Appointment

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/2/2013 2:47:57 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Good, David [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6a0a212fab8644b89798966a2fff3ab8-Good, David]; Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Peavyhouse, Robert [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1394f25fc907481389da07306bb3a027-Peavyhouse, Robert]; French, Roberts [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0c2bb2bd2583415da682f78cbe2154bc-French, Roberts]
BCC: AA-N62-ASD&CD/AA-OTAQ-OFFICE@EPA

Subject: Discuss Hyundai/Kia CAFE/GHG
Location: AA-N62-ASD&CD/AA-OTAQ-OFFICE@EPA

Start: 1/3/2013 7:00:00 PM
End: 1/3/2013 8:00:00 PM
Show Time As: Busy

Recurrence: (none)

We need to discuss how to handle Hyundai and Kia for the 2011 MY CAFE calculations, the early GHG report, and 2012/2013 CAFE and GHG calculations.

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
on behalf of ComplianceInfo [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A466F98C1B6044ECA0B3971469CADBDA-COMPLIANCEI]
Sent: 2/6/2013 1:00:40 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: 2nd Request for answer

Is this something we can respond to?
------ Forwarded by Holly Pugliese/AA/USEPA/US on 02/06/2013 08:00 AM ------

From: PII / Ex. 6

To: ComplianceInfo@EPA
Date: 02/05/2013 11:16 AM
Subject: 2nd Request for answer

Several months ago, I asked how the 'combined' EPA mileage rating is determined and did not receive an answer. My KIA RIO 2012's EPA ratings were lowered by your agency. City mpg was lowered by 2mpg and HighwayMPG was lowered by 4 BUT combined only went down by 2mpg. Since the reimbursement from KIA is based on the combined figure, how is it determined?

PII / Ex. 6

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 1/7/2013 3:31:22 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: KIA MPG Changes - 2013 Sorento onboard MPG calculator also overestmates mpg by 2-2.4 mpg (also for other Kia vehicles as documented on Kia blog sites)

FYI

[I'll send this person an email thanking him for sending us this information.]

Dave
----- Forwarded by David Good/AA/USEPA/US on 01/07/2013 10:25 AM -----

From: PII / Ex. 6

To: ComplianceInfo@EPA, David Good/AA/USEPA/US@EPA, Karen Danzeisen/AA/USEPA/US@EPA
Date: 01/06/2013 12:22 PM
Subject: KIA MPG Changes

Dear EPA Team,

I want to applaud the EPA for its efforts to expose the inflated MPG ratings on various KIA vehicles. I purchased a 2013 Kia Sorento 4 cyl with GDI in September of this year and can tell you I am not getting anywhere near the combined or highway gas mileage estimates, even using the new lower figures.

My reason for writing is to point out another KIA deception with their onboard MPG calculator. Like many vehicles, my Sorento has an onboard computer that calculates gas mileage. It recycles and resets to zero after each fill up so you can get different estimates under various driving conditions. And I realize it is only an estimate. Unfortunately their estimates are consistently overstated at each fill up by the tune of 2 to 2.4 MPG. This is compared to my manual tracking and calculations at each fill up over the last 3+ months and 3000+ miles. So for example, the computer might indicate 23.6 MPG at fill up while my calculations show the actual MPG is more like 21.4.

These differences are well documented on various KIA blog sites. So it is not a problem specific to my vehicle. To me it proves an intentional deception on KIA's part to inflate the vehicles MPG especially when factoring in their other MPG rating "testing errors".

I would like to see this issue addressed with KIA as well so they acknowledge and correct this issue. It really is deceptive to the thousands of consumers who do not bother to manually track their MPG and for anyone test driving a

new vehicle.

Sincerely,

PII / Ex. 6

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 30 2013

OFFICE OF
ENFORCEMENT AND
COMPLIANCE ASSURANCE

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN THE MATTER OF: Hyundai Motor Company

Hogan Lovells US LLP
Columbia Square
555 Thirteenth Street, NW
Washington, DC 20004

ATTENTION: Adam M. Kushner

Request for Information under Section 208(a) of the Clean Air Act, 42 U.S.C. § 7542(a)

The United States Environmental Protection Agency (EPA) hereby requires Hyundai Motor Company (Hyundai) to submit certain information as part of an EPA investigation to determine Hyundai's compliance with Section 203 of the Clean Air Act (CAA), 42 U.S.C. § 7522, and the applicable regulations at 40 C.F.R. Parts 85 and 86. Examples of vehicles regulated under these Parts include, but are not limited to, highway cars and trucks. Exhibit B specifies the information that you must submit. Exhibit C provides instructions for your response to this request, and Exhibit D provides definitions for some of the terms used in this request.

The EPA is issuing this Request for Information (Request) under Section 208(a) of the CAA, 42 U.S.C. § 7542(a). Under Section 208(a) of the CAA, the EPA may require any person who is subject to the CAA to provide information necessary to determine whether the person has acted in compliance with these requirements and the regulations promulgated thereunder.

You must submit the information requested within 30 calendar days from the date of this letter.

Failure to provide the required information may result in the initiation of a civil action pursuant to Section 205(b) of the CAA, 42 U.S.C. § 7524(b). Failure to provide all requested information in its entirety, and in the format requested, may result in additional inquiries and penalties. It is important that your responses be clear, accurate, and complete. The EPA will regard submitted information that is misleading, false, incomplete, or submitted without regard to its accuracy as a violation of the CAA and/or criminal statutes. The EPA may use any information submitted in response to this request in an administrative, civil or criminal action.

Internet Address (URL) • http://www.epa.gov
Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Postconsumer, Process Chlorine Free Recycled Paper

Finally, Hyundai must submit all requested information under an authorized signature with the following certification:

> I certify under penalty of law that I have examined and am familiar with the information in the enclosed documents, including all attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief, true and complete. I am aware that there are significant penalties for knowingly submitting false statements and information, including the possibility of fines or imprisonment pursuant to Section 113(c)(2) of the Clean Air Act, 42 U.S.C. § 7413(c)(2), and 18 U.S.C. §§ 1001 and 1341.

You are entitled to assert a business confidentiality claim covering all or part of the information you submit in response to this request, in accordance with the procedures described in the Confidentiality of Business Information (CBI) regulations, 40 C.F.R. Part 2, Subpart B. However, no such CBI claim may be made with respect to emissions data as defined at 40 C.F.R. § 2.301(a)(2). You must specify the page, paragraph and sentence when identifying the information subject to your claim. Exhibit A specifies the assertion and substantiation requirements for business confidentiality claims. The EPA may, without further notice, provide the public with any information not subject to a CBI claim.

Please submit all requested information, via courier service or overnight delivery, to:

Anne Wick
U.S. Environmental Protection Agency
Air Enforcement Division
Ariel Rios Building South, Room 1111B
1200 Pennsylvania Ave., NW
Washington, DC 20004

Any questions concerning this Information Request should be directed to Anne Wick of my staff at 202-564-2063.

1/30/2013
Date

Phillip A. Brooks, Director
Air Enforcement Division

ED_002576_00000031-00002

EXHIBIT A

CONFIDENTIAL BUSINESS INFORMATION

You may assert a business confidentiality claim covering all or part of the information you provide in response to this Information Request for any business information entitled to confidential treatment under Section 208(c) of the CAA, 42 U.S.C. § 7542, and 40 C.F.R. Part 2, subpart B. Under Section 208(c) of the CAA, you are entitled to confidential treatment of information that would divulge methods or processes entitled to protection as trade secrets. Under 40 C.F.R. Part 2, subpart B, business confidentiality means "the concept of trade secrecy and other related legal concepts which give (or may give) a business the right to preserve the confidentiality of business information and to limit its use or disclosure by others in order that the business may obtain or retain business advantages it derives from its rights in the information." *See* 40 C.F.R. § 2.201(e).

Information covered by a claim of business confidentiality will be disclosed by the EPA only to the extent, and by means of the procedures, set forth in Section 208(c) of the CAA and 40 C.F.R. Part 2, subpart B. The EPA will construe your failure to furnish a business confidentiality claim with your response to this Information Request as a waiver of that claim, and the information may be made available to the public without further notice to you.

To assert a business confidentiality claim, you must place on (or attach to) all information you desire to assert as business confidential either a cover sheet, stamped or typed legend, or other suitable form of notice employing language such as "trade secret," "proprietary," or "company confidential" at the time you submit your response to this Information Request. Allegedly confidential portions of otherwise non-confidential documents should be clearly identified, and may be submitted separately to facilitate identification and handling by the EPA. You should indicate if you desire confidential treatment only until a certain date or until the occurrence of a certain event.

The criteria the EPA will use in determining whether material you claim as business confidential is entitled to confidential treatment are set forth at 40 C.F.R. §§ 2.208 and 2.301. These regulations provide, among other things, that you must satisfactorily show that: (1) the information is within the scope of business confidentiality as defined at 40 C.F.R. § 2.201(e), (2) that you have taken reasonable measures to protect the confidentiality of the information and that you intend to continue to do so, (3) the information is not and has not been reasonably obtainable by legitimate means without your consent, and (4) the disclosure of the information is likely to cause substantial harm to your business' competitive position. *See* 40 C.F.R. § 2.208 (a)-(e). Emission data, as defined at 40 C.F.R. § 2.301(a)(2), is expressly not entitled to confidential treatment under 40 C.F.R. Part 2, subpart B. *See* 42 U.S.C. § 7542(c); 40 C.F.R. § 2.301(e).

If you assert a claim of business confidentiality in connection with information and documents forwarded in response to this request for information, in accordance with 40 C.F.R. § 2.204(e)(4), the EPA is requesting that you answer the following questions with respect to any information or document for which you assert a claim of business confidentiality:

1. What specific portions of the information are alleged to be entitled to confidential treatment?

Specify by page, paragraph and sentence when identifying the information subject to your claim.

2. For what period of time do you request that the information be maintained as confidential, *e.g.*, until a certain date, until the occurrence of a specified event or permanently? If the occurrence of a specific event will eliminate the need for confidentiality, specify that event. Additionally, explain why the information should be protected for the time period you've specified.

3. What measures have you taken to protect the information claimed as confidential from undesired disclosure? Have you disclosed the information to anyone other than a governmental body or someone who is bound by an agreement not to disclose the information further? If so, why should the information still be considered confidential?

4. Is the information contained in any publicly available material such as the Internet, publicly available databases, promotional publications, annual reports or articles? Is there any means by which a member of the public could obtain access to the information? Is the information of a kind that you would customarily not release to the public?

5. Has any governmental body made a determination as to the confidentiality of the information? If so, please attach a copy of the determination.

6. For each category of information claimed as confidential, explain with specificity whether disclosure of the information is likely to result in substantial harm to your competitive position. Explain the specific nature of those harmful effects, why they should be viewed as substantial, and the causal relationship between disclosure and such harmful effect. How could your competitors make use of this information to your detriment?

7. Is there any other explanation you deem relevant to the EPA's determination of your business confidentiality claim that is not covered in the preceding questions? If so, you may provide such additional explanation.

You must furnish comments to the above questions concurrent with your response to this Information Request if you have claimed any information as business confidential. *See* 40 C.F.R. § 2.204(e)(2). Pursuant to 40 C.F.R. § 2.205(b)(2), you may request an extension of this deadline. The EPA will construe your failure to furnish timely comments as a waiver of your confidentiality claim, consistent with 40 C.F.R. § 2.204(e)(1). Please submit your comments to:

Anne Wick
Air Enforcement Division
U.S. Environmental Protection Agency
Ariel Rios South Building, Room 1111B
1200 Pennsylvania Ave., NW
Washington, DC 20004

Pursuant to 40 C.F.R. § 2.205(c), you are hereby advised that information you submit as part of your comments may be entitled to confidential treatment if, when it is received by EPA, it is marked in accordance with 40 C.F.R. § 2.203(b). As required by 40 C.F.R. § 2.204(e)(6), you may assert a

business confidentiality claim covering all or part of your response to these questions, as provided in 40 C.F.R. § 2.203(b). By submitting this information, you are consenting to a limited release of any confidential business information to EPA legal interns pursuant to 40 C.F.R. §2.209(f). EPA's legal interns are required to sign confidentiality agreements as a requirement of their participation in EPA related matters. Information covered by such a business confidentiality claim will be disclosed by EPA only to the extent, and by means of the procedures, set forth in Section 114(c) of the Clean Air Act (the Act) and 40 C.F.R. Part 2. EPA will construe the failure to furnish a confidentiality claim with your comments as a waiver of that claim, and the information may be made available to the public without further notice to you.

EXHIBIT B

INFORMATION REQUEST FOR HYUNDAI MOTOR COMPANY

Hyundai Motor Company and its affiliates (Hyundai) must submit the following information to the United States Environmental Protection Agency pursuant to § 208 of the CAA, 42 U.S.C. § 7542, regarding the testing and production of certain light duty vehicles and light duty trucks. Provide all responses in the original language along with an English translation.

1. For each Hyundai test group from model year 2007 through 2013, provide all documents related to the coast down test procedures used to derive the road load for certification testing performed to obtain EPA certificates of conformity. Where the coast down test procedures changed over time, respond to this question for each test procedure, along with the time period during which the test procedure was used.

2. Describe the coast down test procedures used for each test group identified in question 1 in detail, including, but not limited to, such things as:
   a. Procedure used to build the test vehicle;
   b. Any and all checks and maintenance performed on the test vehicle prior to testing, along with relevant parameter specifications (such as, but not limited to, specifications for tire pressure, brake drag, ground clearance, and alignment);
   c. Tire pressure of the test vehicle prior to testing and whether air or a different gas was used for tire inflation;
   d. The number of coast down test runs performed on each test vehicle; and
   e. The ambient conditions during each coast down test run.

3. For each test group identified in question 1, provide a narrative description and documents describing any physical differences between the test vehicles and the corresponding production vehicles. Include such things as special bearings, lubrication, tires, transmission components, etc.

4. In addition to the "single direction run error" affecting the Rio, Soul, and Veloster models, described in Hyundai's response to the EPA's October 11, 2012 information request, describe any other testing or process discrepancies that affected the test groups identified in question 1, including, but not limited to, those affecting the 2013 model year Santa Fe Sport, and the 2012 and 2013 model year Accent.

5. For each test group identified in question 1, provide a narrative description and documents describing any differences in maintenance specifications between the test vehicles and the corresponding production vehicles. Include such things as production tolerances for tire pressure, brake drag, ground clearance, and alignment.

6. Provide all documents used to brief Hyundai management regarding the procedures, techniques, and strategies used to determine coast down times and road load coefficients for all vehicles for which Hyundai sought EPA certification for model years 2007 through 2013.

7. Provide all documents pertaining to Hyundai's Fuel Efficiency Engineering Team (FEET) including, but not limited to, the following:
   a. Identities of the personnel who were members and supervisors of FEET in each year from 2007 through the present;
   b. Corporate structure regarding hierarchy for FEET;
   c. Internal briefing documents;
   d. Electronic mail messages within the FEET and between FEET members and Hyundai management; and
   e. Any documents related to procedures for measuring coast down times, whether a Hyundai work product or otherwise.

8. Provide all documents that contain, reflect, analyze, comment on, or discuss the impact of fuel economy ratings on Hyundai's profitability, U.S. sales volume, and U.S. market share. This request includes, but is not limited to, studies, reports, analyses, presentation materials, emails, and correspondence of any kind.

9. For each person who worked on Hyundai testing and reporting of coast down tests for the test groups identified in question 1, for model years 2007 to the present, identify the following:
   a. Name;
   b. Job title;
   c. Work location;
   d. Work email address;
   e. Time period of involvement; and
   f. Current job title and location.

10. For each person who calculated or reviewed Hyundai fuel efficiency ratings for the test groups identified in question 1, for model years 2007 to the present, identify the following:
   a. Name;
   b. Job title;
   c. Work location;
   d. Work email address;
   e. Time period of involvement; and
   f. Current job title and location.

11. Identify each manager and level of management in the chain of command within Hyundai responsible for approving the final published fuel economy rates for each model for each year from model year 2007 to the present, including the following:
    a. Name;
    b. Job title, including management group;
    c. Work location;
    d. Work email address;
    e. Time period of involvement; and
    f. Current job title and location.

12. Provide the test results from any and all coast down tests performed for each test group identified in question 1, regardless of whether the tests were included in the calculation of the road load for the test group.

13. For each test group identified in question 1, and for any comparable test groups from 2006 model year, provide the US model names, photos and specifications of each model, and the FE window sticker values by test group.

14. For each test group identified in question 1 and for any comparable test groups from model years 2000 through 2006, provide the annual total US directed sales by test group.

15. Provide the total US directed sales for Hyundai for each year from 2000 to the present.

16. Provide the total annual revenues and profits for Hyundai from US sales for each year from 2000 to the present.

17. Describe the relationship between the FEET at Hyundai and the FEET at Kia Motors Corporation (or its affiliates). Provide all documents pertaining to coast down tests and fuel efficiency, including records of meetings, shared testing, collaboration on testing, meeting notes, and email.

18. Provide a list of all Hyundai affiliates. Provide an organizational chart to demonstrate the business relationships between these affiliates and Hyundai.

19. Provide a copy of Hyundai's articles of incorporation and by-laws.

20. Identify each person responsible for responding to this Request, including his or her title, and the request(s) to which he or she responded.

EXHIBIT C

INSTRUCTIONS

1. This Request is a continuing request. You must promptly supplement your response in the event that you learn that you possess responsive documents or information not yet produced, or gain possession, custody or control of responsive documents or information after initially responding to this Request.

2. Provide responses to this Request in English, in written document form, and in electronic form using spreadsheet or word processing software (e.g., Word or Excel) or in PDF format, provided you have access to such software. Provide documents in the original language along with the English translation.

3. Where documents or information necessary for a response are not in your possession, custody, or control, indicate in your response why such information is not available or in your possession, custody or control, and identify any source that either possesses or is likely to possess such information.

4. All submitted documents should be copies and not original documents. Provide two complete sets of the requested documents and information.

5. Indicate on each document produced the number of the question to which it corresponds.

6. Where Hyundai has previously submitted to the EPA information requested herein, re-submit the information in the format requested. Identify the material that was previously provided, the date on which it was provided, and the person at the EPA to whom it was provided.

7. You must maintain an unaltered and complete copy of your website as it exists at the time this letter is received. This includes all pages, graphical elements, and text displayed on the website. Upon the written request of the EPA, you must provide this information in readable electronic format within ten calendar days.

ED_002576_00000031-00009

EXHIBIT D

DEFINITIONS

1. All terms used in this Information Request will have their ordinary meaning unless such terms are defined in the CAA, 42 U.S.C. §§ 7401 *et seq,* or the regulations found at 40 C.F.R. Parts 85 and 86.

2. The terms "document" and "documents" means any object that records, stores, or presents information, and includes writings, memoranda, records, or information of any kind, formal or informal, whether wholly or partially handwritten or typed, whether in computer format, memory, or storage device, or in hardcopy, including any form or format of these. The term includes electronic mail and text messages. If in computer format or memory, each such document must be provided in translation to a form useable and readable by the EPA, with all necessary documentation and support. All documents in hard copy also should include attachments to or enclosures with any document.

3. The term "person" includes a corporation, partnership, limited liability company, sole proprietorship, joint venture, or any formal or informal entity, organization or association.

4. The terms "you" and "your" include Hyundai, and any affiliates, predecessors, successors, and assigns.

5. "Affiliate" or "affiliated" - used to indicate a relationship to a specified person, and means any person that, directly or indirectly or through one or more intermediaries, owns or controls, is owned or controlled by or is under common ownership or control with such person.

CERTIFICATE OF MAILING

I, Tawanna Cathey, certify that I sent a Request for Information pursuant to the Clean Air Act by Certified Mail, Return Receipt Requested, to:

Adam M. Kushner, Esq.
Hogan Lovells US LLP
Columbia Square
555 Thirteenth Street, NW
Washington, DC 20004

on the 30th day of January 2013.

Tawanna Cathey
U.S. EPA

Certified Mail Receipt Number: 7012047000020631313

ED_002576_00000031-00011

Message

From: Louwsma, Don [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E08CC20A84984FBF8D0063E530AB479B-LOUWSMA, DON]
Sent: 6/20/2013 7:01:15 PM
To: ADAmbrosi@hatci.com
CC: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; JHorton@hatci.com
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Tony,

The car is parked in the West lot.

It can be picked up this week or next.

Don Louwsma

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Thursday, June 20, 2013 10:54 AM
To: Ball, Joel
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Joel,

We will also use our lower highway result for FE label calculation.

John will pick up the car either tomorrow or early next week (upon release).

Thanks!
Tony

From: Ball, Joel [mailto:ball.joel@epa.gov]
Sent: Thursday, June 20, 2013 10:53 AM
To: D'Ambrosi, Anthony
Cc: Horton, John; Shin, Seungwon (Simon)
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Tony,

EPA approves your request to use Hyundai's lower highway FE test result for the Litmus determination of this test group.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Thursday, June 20, 2013 10:49 AM
To: Ball, Joel

Cc: Horton, John; Shin, Seungwon (Simon)
Subject: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Joel,

Thanks again for the discussion yesterday – it was useful.

Regarding the "Subject," Hyundai does not request EPA to conduct a retest for the EPA HwFET (EPA >10 +%) - we will use our lower Highway fuel economy test result for FE labeling. Additionally, Hyundai requests EPA approval to also utilize use our lower highway FE test result for the Litmus determination of this test group. We believe our HwFET result to be more representative.

Please advise of any questions or concerns.

Thanks!

Best Regards,
Tony

HYUNDAI MOTOR GROUP

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: *adambrosi@hatci.com*

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Louwsma, Don [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E08CC20A84984FBF8D0063E530AB479B-LOUWSMA, DON]
Sent: 6/20/2013 3:39:12 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

ok

From: Ball, Joel
Sent: Thursday, June 20, 2013 11:06 AM
To: Louwsma, Don
Subject: FW: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Please release this vehicle

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Thursday, June 20, 2013 10:54 AM
To: Ball, Joel
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Joel,

We will also use our lower highway result for FE label calculation.

John will pick up the car either tomorrow or early next week (upon release).

Thanks!
Tony

From: Ball, Joel [mailto:ball.joel@epa.gov]
Sent: Thursday, June 20, 2013 10:53 AM
To: D'Ambrosi, Anthony
Cc: Horton, John; Shin, Seungwon (Simon)
Subject: RE: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Tony,

EPA approves your request to use Hyundai's lower highway FE test result for the Litmus determination of this test group.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency

(734) 214-4238
ball.joel@epa.gov

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Thursday, June 20, 2013 10:49 AM
To: Ball, Joel
Cc: Horton, John; Shin, Seungwon (Simon)
Subject: Hyundai Certification Vehicle # LM4N0AU13B2 (RESEND)

Hi Joel,

Thanks again for the discussion yesterday – it was useful.

Regarding the "Subject," Hyundai does not request EPA to conduct a retest for the EPA HwFET (EPA >10 +%) - we will use our lower Highway fuel economy test result for FE labeling. Additionally, Hyundai requests EPA approval to also utilize use our lower highway FE test result for the Litmus determination of this test group. We believe our HwFET result to be more representative.

Please advise of any questions or concerns.

Thanks!

Best Regards,
Tony

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: *adambrosi@hatci.com*

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Ueno, Christine [CUeno@hatci.com]
Sent: 11/27/2013 4:21:05 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: D'Ambrosi, Anthony [ADAmbrosi@hatci.com]
Subject: Dyno Coastdown Speed

Flag: Follow up

Hello, Joel –

Per our telephone call, here is the question that I would like to discuss this afternoon.

According to SAE J2263 (on-road coastdown), the measuring speed is between 115 km/h ~ 15 km/h.

> ***Scope***—This SAE Recommended Practice establishes a procedure for determination of vehicle road load force for speeds between 115 and 15 km/h (71.5 and 9.3 mph). It employs the coastdown method and applies to vehicles designed for on-road operation. The final result is a model of road load force (as a function of speed) during operation on a dry, level road under reference conditions of 20 °C (68 °F), 98.21 kPa (29.00 in-Hg), no wind, no precipitation, and the transmission in neutral.

However, based on SAE J2264 (dyno coastdown), the speed is between 115 km/h ~ 15 km/h, which is broken into 10 km/h intervals.

> d. Coastdown Speed Intervals—Set up following 10 km/h coastdown speed intervals from 115 to 15 km/h (6.2 mph intervals from 71.5 to 9.3 mph).
>
> 115 to 105 km/h, 105 to 95 km/h, 95 to 85 km/h, 85 to 75 km/h, 75 to 65 km/h, 65 to 55 km/h, 55 to 45 km/h, 45 to 35 km/h, 35 to 25 km/h, 25 to 15 km/h

Running the J2264 program using a BEP dyno (which is being used most widely in the world), the speed is between 75 mph ~ 5 mph (=120 km/h~8 km/h) and is broken into 10 mph (16 km/h) intervals. It will be the same situation in EPA if EPA uses BEP dyno and the same program (J2264).

Consequently, we would like to confirm the dyno coastdown speed range and intervals used at EPA.

Thank you. See you at 2.

Christine Ueno
Hyundai-Kia America Technical Center, Inc.
Certification and Compliance
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198
Office : (734) 337-3191
Cell : (734) 507-1233
E-mail: *cueno@hatci.com*

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

This e-mail (including any attachments) is confidential and may be legally privileged. If you are not an intended recipient or an authorized representative of an intended recipient, you are prohibited from using, copying or distributing the information in this e-mail or its attachments. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of this message and any attachments.

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 9/17/2013 7:34:46 PM
To: Lindsey Jeng [ljeng@hatci.com]
CC: Pidgeon, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dfa739a206f04aaea55fabad6939dd01-Pidgeon, Bill]; jocain@arb.ca.gov; French, Roberts [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0c2bb2bd2583415da682f78cbe2154bc-French, Roberts]; Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: FW: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard
Attachments: 2012 Hyundai Sonata CHYXV024YW5 IUVP Report MI-13-43.pdf

Lindsey,

Is this vehicle the 2012 Sonata 2.4L hybrid, which was covered in your customer service campaign regarding fuel economy label values?

Also, please remind me: For IUVP vehicles which were included in the FE Labeling service campaign, what are the IUVP CREE standards are based on---110% of the original (as certified) CREE value or 110% of the revised CREE value (i.e. the increased CREE value).

Thanks

From: Pidgeon, Bill
Sent: Tuesday, September 17, 2013 2:26 PM
To: Good, David
Subject: FW: IUVP Report for Hyundai Sonata

FYI

****
William M. Pidgeon
Mechanical Engineer
U.S. Environmental Protection Agency
Compliance Division, N69
2000 Traverwood Drive
Ann Arbor, MI 48105-2195
pidgeon.bill@epa.gov
Phone: 734-214-4416
Fax: 734-214-4869

From: Jeng, Lindsey [mailto:LJeng@hatci.com]
Sent: Monday, September 16, 2013 5:05 PM
To: Pidgeon, Bill; CA IUVP; IUVP-Failures; John O'Cain
Cc: D'Ambrosi, Anthony; Quelhas, Sergio
Subject: IUVP Report for Hyundai Sonata

Gentlemen,

I've attached a report for a 2012 Hyundai Sonata that we tested here under IUVP. Please, as always, contact me with any questions or concerns.

Thank you,

Lindsey Jeng
Hyundai-Kia America Technical Center, Inc.
In-Use Compliance and Emission Testing
HATCI Powertrain Department
6800 Geddes Rd, Superior Township, MI 48198
Office : (734) 337-2835
Fax : (734) 629-0649
E-mail: LJeng@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

HYUNDAI-KIA
AMERICA TECHNICAL CENTER, INC.

September 16, 2013

Mr. William Pidgeon
U.S. EPA
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Test Group: CHYXV02.4YW5
VIN/ Ex. 6
Date of Test: 9/3/2013
Vehicle Cert. Standard: Tier2:Bin5/ULEV-II

EVAP Group: CHYXR0155PDX
Model: 2012 Sonata 2.4L
Mileage: 36,939
Test Location: HATCI-Ann Arbor

The purpose of this report is to inform you of a 2012 Hyundai Sonata 2.4L that exceeded our calculated standard for Combined CREE. The vehicle was tested at our lab in Ann Arbor, MI under IUVP. Combined CREE for the FTP and HFET was 275g/m which exceeds our reported standard of 269g/m. The vehicle passed all other emission standards for the FTP, HFET, SFTP, and 2DBL. **Table 1** below shows the CREE values for these tests.

Table 1

Pollutant	Standard	Emissions	Pass/Fail
FTP CREE	-	335.9	n/a
HWY CREE	-	200.5	n/a
Comb CREE (g/m)	269	275	Fail

If you have any questions or concerns please feel free to contact me at (734) 337-2835 or LJeng@hatci.com.

Sincerely,

Lindsey Jeng
Powertrain Engineer

cc. Mr. John O'Cain – California Environmental Protection Agency, Air Resources Board

Hyundai-Kia America Technical Center Inc.
6800 Geddes Rd, Superior Township, MI 48198
TEL: 734-337-2835
www.hatci.com

HATCI is an authorized representative of both Hyundai Motor Company and Kia Motors Corporation; which are separate and distinct automotive manufacturers.

Message

From: Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07A9723E93C43D9843E466F7FAC0638-NEVERS, CHRIS]
Sent: 2/25/2013 5:59:32 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: FE differences
Attachments: MyMPG and Lable diff 2009-2013-v3 (2).pdf

Vehicle Description	Number of Vehicles	My MPG - EPA Cmb	PCT Diff
2012 Volkswagen Jetta 2L 4cyl Manual 6-spd	13	11.0	32%
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13	10.8	32%
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18	9.5	28%
2011 Ford Fiesta 1.6L 4cyl Manual 5-spd	9	8.1	25%
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13	7.9	24%
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17	7.9	24%
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19	7.7	19%
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11	7.7	23%
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23	7.2	25%
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11	7.0	21%
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16	6.7	20%
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22	6.6	20%
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31	6.5	20%
2011 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	9	6.0	15%
2012 Volkswagen Jetta 2L 4cyl Automatic (S6)	8	5.9	17%
2010 Honda Fit 1.5L 4cyl Manual 5-spd	8	5.8	20%
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16	5.7	17%
2009 Pontiac G5 XFE 2.2L 4cyl Manual 5-spd	9	5.5	18%
2009 Ford Fusion FWD 2.3L 4cyl Automatic 5-spd	8	5.4	23%
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10	5.4	16%
2012 Volkswagen Golf 2L 4cyl Manual 6-spd	8	5.4	16%
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27	5.3	13%
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17	5.2	21%
2009 Honda Civic 2L 4cyl Manual 6-spd	9	5.2	22%
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18	5.0	15%
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12	4.6	16%
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13	4.3	14%
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13	4.3	16%
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18	4.3	14%
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10	4.2	22%
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11	4.0	18%
2010 Mazda 3 2.5L 4cyl Manual 6-spd	9	4.0	17%
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16	3.9	12%
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13	3.9	11%
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17	3.9	12%
2009 Toyota Corolla 1.8L 4cyl Manual 5-spd	9	3.8	13%
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11	3.8	11%
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32	3.8	13%
2012 Chevrolet Sonic 5 1.4L 4cyl Manual 6-spd	8	3.6	11%
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14	3.5	15%
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10	3.5	11%
2009 Nissan Versa 1.8L 4cyl Manual 6-spd	8	3.5	12%
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50	3.4	11%
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11	3.4	12%
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15	3.3	14%
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29	3.3	11%
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14	3.1	9%
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16	3.0	9%
2009 Scion xB 2.4L 4cyl Automatic (S4)	8	2.9	12%
2009 Pontiac Vibe 1.8L 4cyl Automatic 4-spd	8	2.8	10%
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28	2.8	11%
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12	2.8	10%
2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11	2.6	8%

2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29	2.6	8%
2009 Honda Odyssey 3.5L 6cyl Automatic 5-spd	9	2.3	12%
2012 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	9	2.3	5%
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10	2.3	7%
2009 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	9	2.2	10%
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13	2.1	7%
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11	2.1	7%
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20	2.1	7%
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16	2.1	9%
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37	2.0	6%
2009 Hyundai Accent 1.6L 4cyl Manual 5-spd	8	1.9	7%
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10	1.9	8%
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14	1.9	9%
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10	1.9	5%
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33	1.8	4%
2010 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.8	6%
2009 Ford Focus FWD 2L 4cyl Manual 5-spd	8	1.8	6%
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32	1.8	6%
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12	1.7	7%
2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19	1.7	6%
2009 Acura TSX 2.4L 4cyl Automatic (S5)	8	1.6	7%
2009 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.6	6%
2011 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	9	1.5	6%
2010 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	9	1.5	6%
2010 Kia Forte 2L 4cyl Automatic 4-spd	12	1.3	5%
2010 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	8	1.3	5%
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16	1.2	3%
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14	1.1	4%
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10	1.0	4%
2009 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	8	1.0	5%
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10	1.0	3%
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27	1.0	2%
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20	0.8	3%
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23	0.8	3%
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15	0.8	4%
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22	0.6	1%
2012 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	8	0.5	2%
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10	0.5	1%
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11	0.4	2%
2010 Kia Soul 2L 4cyl Automatic 4-spd	11	0.4	2%
2011 Ford Focus FWD 2L 4cyl Automatic 4-spd	9	0.4	1%
2009 Nissan Versa 1.8L 4cyl Automatic (variable gear ratios)	9	0.3	1%
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18	0.3	1%
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21	0.2	1%
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19	0.2	1%
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11	0.1	1%
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23	0.1	0%
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14	0.1	0%
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16	0.0	0%
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14	0.0	0%
2010 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	8	-0.1	0%
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12	-0.1	0%
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10	-0.1	0%
2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15	-0.1	-1%
2011 Kia Forte 2L 4cyl Automatic 6-spd	9	-0.2	-1%

2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10	-0.2	-1%
2012 Subaru Impreza AWD 2L 4cyl Automatic (variable gear ratios)	8	-0.3	-1%
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19	-0.3	-1%
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11	-0.4	-1%
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15	-0.4	-1%
2011 Honda Accord 2.4L 4cyl Automatic 5-spd	8	-0.4	-1%
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13	-0.4	-2%
2010 Chevrolet Camaro 3.6L 6cyl Automatic (S6)	8	-0.5	-2%
2011 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	9	-0.6	-2%
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear r	14	-0.6	-2%
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10	-0.7	-2%
2009 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	8	-0.7	-3%
2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49	-0.7	-2%
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10	-0.9	-3%
2011 Kia Optima 2.4L 4cyl Automatic 6-spd	9	-0.9	-3%
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10	-0.9	-2%
2012 Kia Soul 2L 4cyl Automatic 6-spd	10	-1.0	-4%
2012 Kia Forte 2L 4cyl Automatic 6-spd	8	-1.1	-4%
2011 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	9	-1.4	-4%
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10	-1.4	-3%
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40	-1.4	-3%
2011 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	8	-1.4	-6%
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16	-1.6	-6%
2011 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	8	-1.8	-6%
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28	-1.8	-6%
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16	-2.1	-6%
2013 Lexus ES 300h 2.5L 4cyl Auto(AV-S6)	8	-2.4	-6%
2009 Hyundai Accent 1.6L 4cyl Automatic 4-spd	9	-2.5	-9%
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23	-2.5	-7%
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21	-2.7	-10%
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174	-2.9	-6%
2011 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	8	-2.9	-11%
2012 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	9	-3.0	-8%
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10	-3.3	-12%
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50	-4.2	-13%
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57	-7.5	-16%
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30	-7.6	-16%

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 9/19/2013 12:59:44 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
CC: Pidgeon, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dfa739a206f04aaea55fabad6939dd01-Pidgeon, Bill]; Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: RE: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Linc,

Joel & I talked about the [redacted] Enforcement/Investigatory / Ex. 7(a) [redacted]
concluded that it may be [redacted]

Dave

From: Wehrly, Linc
Sent: Wednesday, September 18, 2013 3:19 PM
To: Good, David
Cc: Pidgeon, Bill; Ball, Joel
Subject: RE: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Dave & Bill,

[redacted] tanding from the conversations he and I have
[redacted] dai and Kia vehicles (2011, 2012, and 2013) is
[redacted] Enforcement/Investigatory / Ex. 7(a) [redacted]
[redacted] ation they actually submit for IUVP, CAFE, and
[redacted]

Joel is correct that EPA has not engaged H/K on how to test IUVP or what data to submit. That is also true for CAFE and GHG. That is intentional and although it is frustrating, it appears to be the way we will handle Enforcement/Investigatory / Ex. 7(a) Enforcement/Investigatory / Ex. 7(a). My understanding is that Byron has discussed this with NHTSA (Jim Tamm), so they should be aware.

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
Office of Transportation and Air Quality
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: Good, David
Sent: Wednesday, September 18, 2013 2:03 PM
To: Wehrly, Linc
Cc: Pidgeon, Bill; Ball, Joel
Subject: FW: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Linc,

FYI---see the email trail. I talked to Joel about IUVP testing for the "Fuel Economy Affected" vehicles (as Hyundai call the relabeled vehicles).

Joel said that Enforcement/Investigatory / Ex. 7(a) Note that the 2012 IUVP testing is required to be completed one year after production ended----which is actually August, 2013---but which we have allowed manufacturer to default to the end of the model year----Dec 31, 2013.

There were four 2011 models which were re-labeled----I'm not sure whether Hyundai has tested those 2011 IUVP vehicles or not.

Dave

From: Good, David
Sent: Wednesday, September 18, 2013 1:49 PM
To: 'Jeng, Lindsey'
Cc: Pidgeon, Bill; jocain@arb.ca.gov; French, Roberts; Ball, Joel; Babcock, Robert
Subject: RE: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Lindsey,

Thanks for your response.

I forgot to mention the a,b,c coefficients in my previous email.

Bob, we would also like to know what a,b,c coefficients you use for the "Fuel Economy Affected" vehicles---when you begin 2012 IUVP testing for these vehicles.

Thanks

Dave

From: Jeng, Lindsey [mailto:LJeng@hatci.com]
Sent: Wednesday, September 18, 2013 9:41 AM
To: Good, David
Cc: Pidgeon, Bill; jocain@arb.ca.gov; French, Roberts; Ball, Joel; Babcock, Robert
Subject: RE: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Hi Dave,

It is not a Hybrid, it is the base gas direct-injected 2.4L which was not re-labeled. I am not testing any of the "Fuel Economy Affected" vehicles yet under IUVP as we have yet to come to an agreement as to the new CREE values to use for compliance testing.

That means I can't answer your second question since I haven't been given any guidance at all for those vehicles. I'm going to copy Bob, the Director of our Certification Group, who has much more knowledge on the issue, who might be able to answer some of your questions.

Thanks,

Lindsey Jeng
Hyundai-Kia America Technical Center, Inc.
In-Use Compliance and Emission Testing
HATCI Powertrain Department
6800 Geddes Rd, Superior Township, MI 48198
Office : (734) 337-2835
Fax : (734) 629-0649
E-mail: LJeng@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

From: Good, David [mailto:good.david@epa.gov]
Sent: Tuesday, September 17, 2013 3:35 PM
To: Jeng, Lindsey
Cc: Pidgeon, Bill; jocain@arb.ca.gov; French, Roberts; Ball, Joel
Subject: FW: IUVP Report for 2012 Hyundai Sonata which exceeded the in-use CREE standard

Lindsey,

Is this vehicle the 2012 Sonata 2.4L hybrid, which was covered in your customer service campaign regarding fuel economy label values?

Also, please remind me: For IUVP vehicles which were included in the FE Labeling service campaign, what are the IUVP CREE standards are based on---110% of the original (as certified) CREE value or 110% of the revised CREE value (i.e. the increased CREE value).

Thanks

From: Pidgeon, Bill
Sent: Tuesday, September 17, 2013 2:26 PM
To: Good, David
Subject: FW: IUVP Report for Hyundai Sonata

FYI

****
William M. Pidgeon
Mechanical Engineer
U.S. Environmental Protection Agency
Compliance Division, N69
2000 Traverwood Drive
Ann Arbor, MI 48105-2195
pidgeon.bill@epa.gov
Phone: 734-214-4416
Fax: 734-214-4869

From: Jeng, Lindsey [mailto:LJeng@hatci.com]
Sent: Monday, September 16, 2013 5:05 PM
To: Pidgeon, Bill; CA IUVP; IUVP-Failures; John O'Cain
Cc: D'Ambrosi, Anthony; Quelhas, Sergio
Subject: IUVP Report for Hyundai Sonata

Gentlemen,

I've attached a report for a 2012 Hyundai Sonata that we tested here under IUVP. Please, as always, contact me with any questions or concerns.

Thank you,

Lindsey Jeng
Hyundai-Kia America Technical Center, Inc.
In-Use Compliance and Emission Testing
HATCI Powertrain Department
6800 Geddes Rd, Superior Township, MI 48198
Office : (734) 337-2835
Fax : (734) 629-0649
E-mail: LJeng@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 7/30/2013 4:36:40 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: FW: Could you help me out with some advice? [Never mind responding to PII / Ex. 6 about a Canadian Hyundai - Rob responded]

From: PII / Ex. 6
Sent: Tuesday, July 30, 2013 11:31 AM
To: Good, David
Subject: Re: Could you help me out with some advice?

Hello David,
I received a reply back from Rob French, he let me know that the stickers in Canada are different than the American ones so that's probably why we aren't getting the same info. He told me the best thing to do would be to get in on the class action lawsuit that is just getting filed here in Canada. So I'm looking into that and trying to get it sorted out in the Canadian justice system. Thanks for your reply and have a great day.

Kindest regards,
PII / Ex. 6

On 2013-07-30, at 9:06 AM, "Good, David" <good.david@epa.gov> wrote:

PII / Ex. 6

I'm forwarding your email message to Joel Ball, who works for EPA and handles Hyundai & Kia issues.

If Joel doesn't get back to you in a couple days, please give me a call at 734-214-4450 and we can talk about your vehicle.

I show that a 2011 Hyundai Accent gets the following miles per gallon (MPG) values here in the U.S. (with U.S. gallons)---not the 50 MPG indicated in your email:

Model Year	Model	Engine	Trans	City/hwy/combined MPG
2011	Accent	1.6L	M5	28/34/30
2011	Accent	1.6L	A4	27/36/30
2011	Accent Blue	1.6L	M5	26/36/30

Fuel economy information for U.S. vehicles is available at www.fueleconomy.gov.

Regards

From: PII / Ex. 6
Sent: Saturday, July 27, 2013 2:20 PM
To: Good, David
Subject: Could you help me out with some advice?

Hello David,
I sent this message to Rob French first but I got an automatic reply stating he won't be able to reply until July 30th so I thought I'd send it to you because you might be able to help me with this.

I'm emailing you because my uncle had purchased a 2011 Hyundai Accent from the Hyundai dealership (in PII / Ex. 6 solely because the sticker on the window said it gets 50 MPG. Which has proven not to be the case, closer to 30 MPG. However the 2011 Hyundai Accent is not listed on the EPA website OR the Hyundai website to get the reimbursement. I'm wondering should he pursue legal actions against Hyundai? Or how should he go about this. He went to the dealership he bought it from and they lied to him about how long he has file a reimbursement claim. They told him he only had until the end of August 2013 when on the Hyundai website it clearly states that vehicle owners have until the end of December 2013 to file a claim. I know the EPA is an American agency but is there anything you can do to help our situation here in Canada?

PII / Ex. 6

Message

From: Jeng, Lindsey [LJeng@hatci.com]
Sent: 4/26/2013 10:49:57 PM
To: Pidgeon, Bill [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Dfa739a206f04aaea55fabad6939dd01-Pidgeon, Bill]; O'Cain, John@ARB [jocain@arb.ca.gov]
CC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Babcock, Robert [rbabcock@hatci.com]
Subject: 1st Quarter IUVP Reports for Hyundai and Kia
Attachments: 2012 KMX 1Q IUVP Report.pdf; 2013 HYX 1Q IUVP Report.pdf

Gentlemen,

Attached are the 1st quarter reports detailing testing performed under the IUVP during the 1st Quarter of 2013 on behalf of Hyundai and Kia. Please contact me with any questions or concerns, as always. I will be out of the office for a couple days but will reply as soon as I am able when I return on the 1st.

Thank you,

Lindsey Jeng (Lindsey Smith)
Hyundai-Kia America Technical Center, Inc.
In-Use Compliance and Emission Testing
HATCI Powertrain Department
6800 Geddes Rd, Superior Township, MI 48198
Office : (734) 337-2835
Fax : (734) 337-3169
E-mail: LJeng@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Kia 2013 1st Quarter IUVP Report - Vehicle Information

VIN	Quarter	Mfr Code	Emission Program	Mileage Category	Test Group	Evaporative Family	Model Year
PII / Ex. 6	1Q	KMX	IUVB	H	8KMXT02.7MM5	8KMSR0125PDK	2008
	1Q	KMX	IUVB	H	8KMXV01.6BW5	8KMXR0120PDB	2008
	1Q	KMX	IUVB	H	8KMXV02.4UW5	8KMXR0120PDU	2008
	1Q	KMX	IUVB	H	8KMXV02.7GW5	8KMXR0120PDM	2008
	1Q	KMX	IUVB	H	8KMXT03.8LM5	8KMXR0130PDC	2008
	1Q	KMX	IUVB	H	8KMXV03.8HW5	8KMXR0130PDH	2008

VIN	Build Date	Division/ Make Name	Division/ Make Code	Carline Code	Carline Name	Trans Type	Trans Lockup	Creeper Gear
PII / Ex. 6	09/01/2007	Kia	01	719	Sportage 2WD	A	Y	N
	05/07/2008	Kia	01	118	Rio	M	N	N
	11/16/2007	Kia	01	908	Rondo	A	Y	N
	02/19/2008	Kia	01	318	Optima	A	Y	N
	10/20/2007	Kia	01	809	Sorento 2WD	A	Y	N
	10/05/2007	Kia	01	508	Amanti	A	Y	N

VIN	# Of Trans Gears	Disp. (L)	Tire Size	Axle Ratio	Engine Code	ETW	AirAspiration Method	TestDriveCode
PII / Ex. 6	4	2.7	P235/60R16	4.04	G6BA-AC	3875	NA	3
	5	1.6	P185/65R14	4.06	G4ED-MC	2750	NA	3
	4	2.4	P205/60R16	4.04	G4KC-AC	3750	NA	3
	5	2.7	P205/60R16	3.31	G6EA-AC	3625	NA	3
	5	3.8	P245/70R16	3.33	G6CU-AC	3500	NA	1
	5	3.8	P235/55R17	3.33	G6DAACGH	4000	NA	3

VIN	Vehicle Procured Sales Area	Vehicle Procured State	Vehicle Procured Altitude	Vehicle Procured Climate	Odometer at time of Procurement	75% Useful Life	Date of Inspection	Visual MIL Status
PII / Ex. 6	FA	MI	L	C	56404	N	03/18/2013	N
	FA	CO	H	C	53109	N	03/11/2013	N
	FA	CO	H	C	82892	N	03/12/2013	N
	FA	CO	H	C	114971	N	03/11/2013	N
	FA	CO	H	C	54314	N	03/13/2013	N
	FA	CO	H	C	57267	N	03/13/2013	N

VIN	Commanded MIL Status	Active Trouble Codes Status	Readiness Status Complete?	Vehicle Rejection Code	Vehicle Rejection Comments	Vehicle Comments
PII / Ex. 6	N	N	Y	0		KIA-MI-12-84
	N	N	Y	0		KIA-CO-13-411468
	N	N	Y	0		KIA-CO-13-164955
	N	N	Y	0		KIA-CO-13-228088
	N	N	Y	0		KIA-CO-13-810594
	N	N	Y	0		KIA-CO-13-155364

Kia 2013 1st Quarter IUVP Report - FTP Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type	Odometer at start of test
PII / Ex. 6	H	03/20/2013	MI1284-1	HATCI - Ann Arbor	AR	L	61	56440
	H	03/12/2013	CO12411468-1	Environmental Testing Corp	AR	H	61	53150
	H	03/13/2013	CO12164955-1	Environmental Testing Corp	AR	H	61	82929
	H	03/13/2013	CO12228088-1	Environmental Testing Corp	AR	H	61	115013
	H	03/14/2013	CO12810594-1	Environmental Testing Corp	AR	H	61	54353
	H	03/14/2013	CO12155364-1	Environmental Testing Corp	AR	H	61	57304
	H	03/15/2013	CO12155364-2	Environmental Testing Corp	AR	H	61	57368

VIN	Trans Config As Tested	Dyno Target Coeff A	Dyno Target Coeff B	Dyno Target Coeff C	Dyno Set Coef A	Dyno Set Coef B	Dyno Set Coef C	Pass/Fail/ Void (Fed Standards)	Pass/Fail/ Void (CA Standards)
PII / Ex. 6	A	47.64	0.0232	0.0282	26.62	-0.2185	0.0291	P	NA
	M	29.36	-0.0002	0.0201	16.92	-0.2662	0.0212	P	NA
	A	43.86	0.0149	0.0234	24.22	-0.1902	0.0242	F	NA
	A	41.21	0.0215	0.0199	11.96	0.2122	0.0171	P	NA
	A	52.34	0.3401	0.0247	36.58	-0.3811	0.0303	P	NA
	A	43.66	0.0132	0.0210	12.88	0.1703	0.0179	V	NA
	A	43.66	-0.0132	0.0210	12.28	0.1195	0.0182	P	NA

VIN	HC-Total Weighted result (g/m)	THC bag 1 result	THC bag 2 result	THC bag 3 result	CO Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	CO bag 1 result	CO bag 2 result	CO bag 3 result
PII / Ex. 6	0.08	0.317	0.004	0.038	1.50	4.2		4.27	0.54	1.23
	0.03	0.121	0.000	0.000	0.27	4.2		1.30	0.01	0.01
	0.06	0.243	0.010	0.003	2.91	4.2		6.13	3.05	0.23
	0.04	0.151	0.000	0.018	0.74	4.2		2.03	0.16	0.88
	0.05	0.192	0.000	0.035	1.22	4.2		3.31	0.32	1.34
	0.04	0.160	0.000	0.019	1.37	4.2		3.28	0.66	1.26
	0.04	0.192	0.000	0.013	1.04	4.2		3.39	0.13	0.98

VIN	CO2 Weighted result (g/m)	CO2 bag 1 result	CO2 bag 2 result	CO2 bag 3 result	Nox Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	Nox bag 1 result	Nox bag 2 result	Nox bag 3 result
PII / Ex. 6	416.7	433.4	432.1	374.9	0.02	0.07		0.066	.0.1448	0.078
	258.4	265.4	269.2	232.7	0.02	0.07		0.090	0.009	0.006
	342.7	360.6	354.4	307.0	0.21	0.07		0.306	0.267	0.035
	344.9	364.2	357.0	307.5	0.07	0.07		0.216	0.035	0.014
	436.8	464.3	449.7	391.3	0.02	0.07		0.079	0.000	0.006
	394.5	405.6	416.9	344.0	0.02	0.07		0.031	0.017	0.011
	395.1	409.7	416.7	343.6	0.03	0.07		0.037	0.031	0.008

VIN	NMOG Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	NMOG bag 1 result	NMOG bag 2 result	NMOG bag 3 result	MFR FE Weighted result (mpg)	FE bag 1 result	FE bag 2 result	FE bag 3 result
PII / Ex. 6	0.074	0.090		0.310	0.002	0.030	21.18	20.14	20.51	23.56
	0.024	0.090		0.117	0.000	0.000	34.00	32.87	32.69	37.82
	0.043	0.090		0.207	0.000	0.001	25.33	23.72	24.50	28.63
	0.033	0.090		0.141	0.000	0.012	25.42	23.93	24.64	28.49
	0.044	0.090		0.175	0.000	0.027	20.06	18.72	19.55	22.37
	0.034	0.090		0.145	0.000	0.013	22.18	21.40	21.06	25.43
	0.039	0.090		0.175	0.000	0.009	22.18	21.18	21.11	25.50

VIN	IUVP Test Comments
PII / Ex. 6	
	Post Test: P2187 System Too Lean at Idle Bank 1
	VOID - Wrong B Term used

Kia 1st Quarter IUVP Report - US06 Test Information

VIN	Verify Test #	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6		H	03/21/2013	MI1284-2	HATCI - Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/ Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HC-Total Weighted (g/m)	SFTP HC-NM-NOX-COMP Result (g/m)	In-use Standard (Federal)	In-use Standard (CA)
PII / Ex. 6	56459	A	P	NA	0.03	0.06	0.95	

VIN	SFTP CO-COMP Weighted (g/m)	In-use Standard (Federal)	In-use Standard (CA)	MFR FE Weighted result (gpm)	IUVP Test Comments
PII / Ex. 6	2.18	5.05		20.31	

Kia 1st Quarter IUVP Report - EVAP Test Information

VIN	Verify Test #	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6		H	03/21/2013	MI1284-3	ATCI - Ann Arb	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/Void (Fed Standards)	Pass/Fail/ Void (CA Standards)	Test Procedure (23=EVAP, 24=ORVR)	HC-Total or HC Weighted (g/t) or (g/g)	In-use Standard	Comments
PII / Ex. 6	56459	A	P	NA	24	0.122	0.2	

Hyundai 1st Quarter IUVP Report - Vehicle Information

VIN	Quarter	Emission Program	Mileage Category	Test Group	Evaporative Family	Model Year
PII / Ex. 6	1Q	IUVB	H	8HYXV02.0GW5	8HYXR0148PSH	2008
	1Q	IUVB	H	8HYXV02.7KM5	8HYXR0148PSH	2008
	1Q	IUVB	H	8HYXV02.7KM5	8HYXR0148PSH	2008
	1Q	IUVB	L	BHYXV03.8EM5	BHYXR0152PDE	2011
	1Q	IUVB	H	8HYXV02.4SW5	8HYXR0155PDN	2008
	1Q	IUVB	H	8HYXV02.4SW5	8HYXR0155PDN	2008

VIN	Build Date	Division/ Make Code	Carline Code	Carline Name	Trans Type	Trans Lockup	Creeper Gear
PII / Ex. 6	03/04/2008	01	60	Tiburon	A	Y	N
	03/18/2008	01	60	Tiburon	M	N	N
	02/11/2008	01	60	Tiburon	A	Y	N
	05/21/2011	01	80	Veracruz 2WD	A	Y	N
	10/10/2007	01	32	Sonata	A	Y	N
	06/08/2007	01	32	Sonata	A	Y	N

VIN	# Of Trans Gears	Tire Size	Axle Ratio	Engine Code	ETW	AirAspiration Method	TestDrive Code
PII / Ex. 6	4	P205/55R16	4.41	G4GC-AC	3375	NA	3
	6	P245/45R17	4.43	G6BA-MC	3375	NA	3
	4	P215/45R17	4.04	G6BA-AC	3500	NA	3
	6	P245/65R17	3.46	G6DA-AC	4750	NA	3
	4	P215/55R17	3.77	G4KC-AC	3625	NA	3
	4	P215/60R16	3.77	G4KC-AC	3625	NA	3

VIN	Vehicle Procured Sales Area	Vehicle Procured Altitude	Vehicle Procured Climate	Odometer at time of Procurement	75% Useful Life	Date of Inspection	Visual MIL Status
PII / Ex. 6	FA	H	C	50728	N	03/12/2013	N
	FA	H	C	41818	N	03/13/2013	N
	FA	L	C	93454	Y	03/13/2013	N
	FA	L	C	20553	N	03/11/2013	N
	FA	L	C	95037	N	03/11/2013	N
	FA	L	C	92707	N	03/12/2013	N

VIN	Commanded MIL Status	Readiness Status Complete?	Vehicle Rejection Code	Vehicle Rejection Comments	Vehicle Comments
PII / Ex. 6	N	Y	0		HND-CO-12-280728
	N	Y	0		HND-CO-12-282139
	N	Y	0		HND-MI-12-80
	N	Y	0		HND-MI-12-81
	N	Y	0		HND-MI-12-82
	N	Y	0		HND-MI-12-83

Hyundai 1st Quarter IUVP Report - FTP Test Information

VIN	Verify Test #	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type	Odometer at start of test
PII / Ex. 6		H	03/13/2013	CO12280728-1	Environmental Testing Corp	AR	H	61	50767
		H	03/14/2013	CO12282139-1	Environmental Testing Corp	AR	H	61	41872
		H	03/15/2013	MI1280-1	HATCI - Ann Arbor	AR	L	61	93491
		L	03/13/2013	MI1281-1	HATCI - Ann Arbor	AR	L	61	20591
		H	03/14/2013	MI1282-1	HATCI - Ann Arbor	AR	L	61	95074
		H	03/14/2013	MI1283-1	HATCI - Ann Arbor	AR	L	61	92744

VIN	Trans Config As Tested	Dyno Target Coeff A	Dyno Target Coeff B	Dyno Target Coeff C	Dyno Set Coef A	Dyno Set Coef B	Dyno Set Coef C	Pass/Fail/Void (Fed Standards)	Pass/Fail/ Void (CA Standards)
PII / Ex. 6	A	45.95	-0.0089	0.01984	24.33	-0.2170	0.02049	P	NA
	M	40.23	0.2280	0.01828	23.69	-0.0714	0.01885	P	NA
	A	45.16	0.3648	0.01433	22.25	0.1662	0.01476	P	NA
	A	40.24	0.5476	0.02200	23.33	-0.0384	0.02783	P	NA
	A	37.15	0.0177	0.01900	15.71	-0.2270	0.02002	P	NA
	A	37.15	0.0177	0.01900	16.89	-0.2098	0.01932	P	NA

VIN	HC-Total Weighted result (g/m)	THC bag 1 result	THC bag 2 result	THC bag 3 result	THC bag 4 result	CO Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	CO bag 1 result	CO bag 2 result	CO bag 3 result	CO bag 4 result
PII / Ex. 6	0.04	0.168	0.000	0.010		0.73	4.2		2.15	0.31	0.45	
	0.03	0.115	0.000	0.011		1.08	4.2		3.19	0.45	0.69	
	0.03	0.132	0.002	0.018		0.76	4.2		2.19	0.20	0.76	
	0.04	0.186	0.004	0.014		0.79	3.4		2.74	0.01	0.79	
	0.04	0.187	0.005	0.005		0.89	4.2		2.30	0.54	0.48	
	0.04	0.199	0.037	0.006		0.86	4.2		2.66	0.24	0.69	

VIN	CO2 Weighted result (g/m)	CO2 bag 1 result	CO2 bag 2 result	CO2 bag 3 result	CO2 bag 4 result	Nox Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	Nox bag 1 result	Nox bag 2 result	Nox bag 3 result	Nox bag 4 result
PII / Ex. 6	323.6	338.8	334.5	291.5		0.04	0.07		0.164	0.002	0.025	
	398.7	377.3	437.0	342.3		0.02	0.07		0.041	0.010	0.020	
	405.6	408.5	430.3	357.0		0.02	0.07		0.049	0.007	0.004	
	450.0	469.3	471.1	394.2		0.03	0.05		0.041	0.027	0.014	
	340.3	356.0	354.0	302.6		0.02	0.07		0.101	0.003	0.005	
	346.0	357.8	360.2	310.2		0.03	0.07		0.125	0.000	0.004	

VIN	NMOG Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	NMOG bag 1 result	NMOG bag 2 result	NMOG bag 3 result	NMOG bag 4 result	MFR FE Weighted result (mpg)	FE bag 1 result	FE bag 2 result	FE bag 3 result	FE bag 4 result
PII / Ex. 6	0.035	0.090		0.160	0.000	0.007		27.09	25.69	26.28	30.11	
	0.023	0.090		0.102	0.000	0.007		21.98	23.00	20.11	25.63	
	0.030	0.090		0.125	0.001	0.002		21.83	21.54	20.62	24.79	
	0.039	0.075		0.174	0.000	0.010		19.70	18.73	18.85	22.46	
	0.039	0.090		0.179	0.002	0.001		25.98	24.65	25.03	29.28	
	0.041	0.090		0.191	0.002	0.002		25.56	24.49	24.63	28.53	

VIN	IUVP Test Comments
PII / Ex. 6	

Hyundai 1st Quarter IUVP Report - US06 Test Information

VIN	Verify Test #	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6		H	03/15/2013	MI1280-1	HATCI - Ann Arbor	AR	L	61
		L	03/14/2013	MI1281-2	HATCI - Ann Arbor	AR	L	61
		H	03/14/2013	MI1282-2	HATCI - Ann Arbor	AR	L	61
		H	03/14/2013	MI1283-2	HATCI - Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HC-Total Weighted (g/m)	SFTP HC-NM-NOX-COMP Result (g/m)	In-use Standard (Federal)	In-use Standard (CA)
PII / Ex. 6	93502	A	P	NA	0.02	0.04	0.65	
	20620	A	P	NA	0.02	0.06	0.95	
	95085	A	P	NA	0.01	0.04	0.65	
	92756	A	P	NA	0.02	0.04	0.65	

VIN	SFTP CO-COMP Weighted (g/m)	In-use Standard (Federal)	In-use Standard (CA)	MFR FE Weighted result (gpm)	IUVP Test Comments
PII / Ex. 6	1.07	4.20		23.55	
	1.55	5.00		19.37	
	1.40	4.20		26.77	
	2.05	4.20		26.26	

Hyundai 1st Quarter IUVP Report - EVAP Test Information

VIN	Verify Test #	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6		L	03/14/2013	MI1281-3	HATCI - Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/Void (Fed Standards)	Pass/Fail/Void (CA Standards)	Test Procedure (23=EVAP, 24=ORVR)	HC-Total or HC Weighted (g/t) or (g/g)	In-use Standard	Comments
PII / Ex. 6	20637	A	P	NA	24	0.065	0.2	

Message

From: Fearnside, Judy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E2FC5D815467447BAC7D1DFB6B2E7595-FEARNSIDE, JUDY]
Sent: 4/17/2013 2:54:05 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]
Subject: Kia Call on Compliance Line

Good morning,

PII / Ex. 6 (? last name) called late yesterday with a complaint about his 2013 Kia Optima. His words were, "I was told to call this number. My Optima is getting only 18-20 mpg, it's supposed to get 28. Kia is giving me the run-around, and the dealer is not doing anything. Please call me!" I have his VIN, if you need it.

PII / Ex. 6

If this is still an "on-going investigation" and you cannot respond to this call, please let me know.

Thank you,

Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative
Agreement with SSA, Inc.
Compliance Division
(734) 214-4002

Message

From: D'Ambrosi, Anthony [ADAmbrosi@hatci.com]
Sent: 8/2/2013 6:37:28 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Follow-up from our FE Litmus Discussion

Hi Joel,

As a follow-up to our discussion on treatment of MCT data for litmus the following year, I looked at the guidance we mentioned. Unfortunately, it does speak to the following year's Litmus. However, we could assume since this was made available for 11MY only – MCT should be used the following year.

Just FYI ....

5. Litmus Test – Use of Manufacturer Tests Instead of EPA Confirmatory Tests

Background: Manufacturers are required to conduct a Litmus test for each test group as outlined in the provisions of 40 CFR 600.115-08(c). After performing the Litmus test, manufacturers typically send an electronic test request to EPA's Verify data base for the test vehicle used to perform the Litmus test. EPA then decides whether confirmatory testing is necessary for that test vehicle at EPA's emission testing laboratory in Ann Arbor, Michigan. If selected for EPA confirmatory testing, the vehicle is then scheduled for EPA testing as soon possible after it can be delivered to EPA's testing laboratory. For some manufacturers, it is common for the vehicle delivery and EPA confirmatory testing process to take 2-3 months. [Note: A Litmus test can sometimes affect FE label testing for 5-10 model types within a test group (which can be held up for 2-3 months during the confirmatory testing process).]

Manufacturers have indicated that the timing of EPA confirmatory testing is crucial to their fuel economy program and requested the ability to use manufacturer's Litmus test results (instead of EPA confirmatory testing) to determine the FE Label methodology for vehicles in test group.

Policy for EPA Confirmatory Testing of Litmus Test Vehicles, for 2011 Model Year Only: In cases where EPA confirmatory testing is scheduled for the Litmus test vehicle, manufacturers may request EPA approval to use the manufacturer's Litmus test data (in lieu of EPA confirmatory test data) to determine the fuel economy label methodology for all model types within a test group. Based on the provisions of 40 CFR 600.115-08(d), EPA will likely approve such requests for 2011 model year only, provided:

- The start of production for vehicles represented by the test vehicle is less than 90 days from the date when all EPA confirmatory exhaust emission testing is completed;
- There was not an excessive amount of time between the date the litmus test was completed and the date when the corresponding test request was submitted to EPA;
- The manufacturer has demonstrated acceptable correlation with EPA's laboratory;
- The subsequent EPA confirmatory testing demonstrates compliance with applicable emission requirements (and meets applicable emission standards); and
- EPA confirmatory test data are used for the FE Label calculations (except for conditional labels which are based on the provisions of 40 CFR 600.314-08(e)).

kl

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: adambrosi@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Horton, John [JHorton@hatci.com]
Sent: 4/4/2013 1:53:15 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: FW: 4 Door Test For 5 Door EDV SULEV 2.0L GDI Forte et al Test Group

Joel,

I am sending you a summary of our discussion about using a 4 door vehicle to simulate a 5 door EDV selected for test group EKMXV02.0AGE.

HMC could not prepare a 5 door vehicle in a timely manner, so they would like to proceed with CTDI testing with a 4 door vehicle.

As we discussed on Thursday morning 4/4/2013, you said this would be appropriate as long as the following criteria were met.

- Use Road-load Coefficients for 5 Door Model
- Use ETW for 5 Door Model
- You also suggested using same wheels/tires as 5 door model if known

Based on our discussion, I am going to inform HMC that it is OK to proceed with using the 4 door model with the criteria discussed above.

If you have any comments or questions regarding this issue, please contact me.

John Horton
Hyundai-Kia America Technical Center, Inc.
Senior Certification Engineer
Certification & Compliance
6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-3029
Fax : (734) 483-5919
E-mail: jhorton@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 5/17/2013 2:50:53 PM
To: D'Ambrosi, Anthony [ADAmbrosi@hatci.com]
CC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Simon (Seungwon) Shin [seungwon@hatci.com]
Subject: RE: Follow-up to our 5/17/2013 meeting
Attachments: training.413-partially updated-FE only-5-17-2013.pdf

Tony & Simon,

Attached is an old training document that may help. As we discussed today, the old FE training document doesn't include the 2008 or 2013 FE Label requirements or any changes that may be needed for 2012 rule & 2017 GHG rules---or the recent NHTSA reformed CAFE changes for light-duty vehicles (cars and trucks).

Also, the format is messed up a little as I had to convert it from WordPerfect to MS Word.

Dave

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Wednesday, May 15, 2013 1:48 PM
To: Good, David
Cc: Ball, Joel
Subject:

Hi Dave,

Attached is a presentation that they made here earlier in the year to confirm their understanding of Fuel Economy.

I think Joel has seen this or at least an earlier version.

We can discuss this on Friday and some other examples if I find time to create them.

Thanks!

Take care,

HYUNDAI MOTOR GROUP

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: *adambrosi@hatci.com*

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: D'Ambrosi, Anthony [ADAmbrosi@hatci.com]
Sent: 5/17/2013 3:22:19 PM
To: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6a0a212fab8644b89798966a2fff3ab8-Good, David]
CC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Shin, Seungwon (Simon) [seungwon@hatci.com]
Subject: RE: Follow-up to our 5/17/2013 meeting

Thanks for passing this along!

Thanks to all for your time this morning as I know it is limited. We appreciated the insight and found it very useful.

This will allow future discussions to be more focused with specific questions (model examples).

Have a great weekend,
Tony

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, May 17, 2013 10:51 AM
To: D'Ambrosi, Anthony
Cc: Ball, Joel; Dalton, Joel; Shin, Seungwon (Simon)
Subject: RE: Follow-up to our 5/17/2013 meeting

Tony & Simon,

Attached is an old training document that may help. As we discussed today, the old FE training document doesn't include the 2008 or 2013 FE Label requirements or any changes that may be needed for 2012 rule & 2017 GHG rules---or the recent NHTSA reformed CAFE changes for light-duty vehicles (cars and trucks).

Also, the format is messed up a little as I had to convert it from WordPerfect to MS Word.

Dave

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Wednesday, May 15, 2013 1:48 PM
To: Good, David
Cc: Ball, Joel
Subject:

Hi Dave,

Attached is a presentation that they made here earlier in the year to confirm their understanding of Fuel Economy.

I think Joel has seen this or at least an earlier version.

We can discuss this on Friday and some other examples if I find time to create them.

Thanks!

Take care,

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: adambrosi@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Holly Pugliese [Pugliese.Holly@epamail.epa.gov]
on behalf of ComplianceInfo@epa.gov [ComplianceInfo@epa.gov]
Sent: 9/3/2013 7:17:57 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Fw: Owner of a 2013 Hyundai Elantra GT

Flag: Follow up

Any thoughts on how we can respond to this one?
----- Forwarded by Holly Pugliese/AA/USEPA/US on 09/03/2013 03:17 PM -----

From: PII / Ex. 6
To: ComplianceInfo@EPA
Date: 09/03/2013 12:17 PM
Subject: Owner of a 2013 Hyundai Elantra GT

To Whom it May Concern:

I had two reasons why I bought this vehicle (1) the MPG sticker on the vehicle, and (2) the looks.

So far, since my first fill up back in November until today, I have been manually checking my MPG and tracking the "combined" mpg and "city" mpg with repeating figures for ***combined MPG as 26 and city MPG as 23***. According to the sticker plastered to the car when I bought the vehicle, I am not even close to that figure even if it is an estimate.

I created a case with Hyundai and as the follow up was to bring my car back to the dealership for a "MPG Assessment", I believe the District Manager did an EPA testing on my vehicle with results from a computer printout stating a 'combined mpg' of 31.

What else did I expect? It miraculously was on target!

The EPA testing compared to my personal driving differs, WOW..... I believe I must have confidence that the computer printout refers to tests that were done on my personal car and must have confidence in the way the EPA tests are done, it is hard to imagine why when I drive the car, the figures are consistent and way off base!

I have driven many cars throughout my life and the information provided on each of those cars was pretty accurate with the information provided by the manufacturer, until now.

Since this test will be forwarded to Hyundai corporate and will show that nothing is wrong with my vehicle except the fact that my driving of this vehicle, of course, differs from the way the vehicle is driven on EPA testing, MY QUESTION WOULD BE, WHAT WOULD BE MY NEXT STEP, COULD I HAVE SOMEONE ELSE TEST IT PREFERABLY NOT A HYUNDAI EMPLOYEE? I still question the fact that if I was 1 or 2 or even 3 MPG away from Hyundai's estimation, I would not have a problem accepting the difference. The sticker on the car was false and when it was found out and rectified, it still is way off according to my driving and my manual calculations. Behold, who else would be driving the car, not the EPA..... EPA has to give estimates, my calculation doesn't come close to the estimates.

Can I have an EPA representative do the testing?

Please let me know what else can be done in order to make be believe I did not buy this car under false pretenses. Let me know if there is someone I can speak to in person who can help me understand. Thank you.

Sincerely, PII / Ex. 6

Wk ph. PII / Ex. 6

H mph. PII / Ex. 6

Message

From: Barker, David [dbarker@hatci.com]
Sent: 1/31/2013 7:20:49 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Babcock, Robert [rbabcock@hatci.com]
Subject: Road Load Audit Proposal
Attachments: Road_Load_Audit CPP Proposal - REV2.pdf; image001.png

Hi Joel,
Here is the original proposal as presented. I think during the original discussion we reached some agreement with your concerns about the primary vehicle selections, using a "1 phase" program, etc.

Let me know if you have any questions.

DAVID BARKER
Hyundai-Kia America Technical Center, Inc.
Senior Certification Engineer
Certification & Compliance
6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-2343
Fax : (734) 483-5919
E-mail: dbarker@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Barker, David [dbarker@hatci.com]
Sent: 1/31/2013 4:58:03 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Open Items Question list
Attachments: image001.png

Hi Joel,
I'm not trying to bombard you with questions and I understand you're fairly busy with all of your programs. Below I've compiled a list of some open issues we may have brought to your attention in the last month or two. With a constant flow of questions or requests from all manufacturers, I just wanted to collect these together for convenience.

I know Bob was talking about setting up a meeting with you next week to discuss some of the in-use issues and maybe at that time we can discuss any of these topics you have questions about. Although if you can address any of these immediately, that would be appreciated as well.

1) Road load audit program proposal.
2) GHG In-use testing proposal.
    a. I think Bob provided a letter and presentation to you that he had sent to Byron and CARB.
    b. Understandably this is a larger issue and will take some time.
3) 2014MY Shift survey carryover/across
    a. During the 2014MY certification preview, we listed the intended shift survey carryovers/across for this coming model year. Is that sufficient to allow the carryover/across or do you need letters for each of the applications?
4) Other OEM A/C leakage durability demonstration
    a. Essentially, are other manufacturers that apply for A/C GHG credits doing anything special within their applications to demonstrate FUL durability of their A/C systems or just providing a compliance statement?
5) Fusion HEV testing procedure
    a. Powertrain is running a bench mark and need to run this vehicle in 2WD mode.
6) Cold temperature road load coefficients
    a. It was noticed that some manufacturers have identical Cold road load coefficients as their 75 degree coefficients. There was a general interest on how this was approved since the regulations say the standard estimated difference is -10%.
    b. Would it be right to assume an OEM would have just performed a study showing there was no actual difference?
7) Genesis 3.8L GDI PM testing
    a. I've provided some data for the Genesis 3.8L soot complaint.
    b. One thought was testing the customers car while we continue our other investigative efforts. I would just like to discuss this with you.
8) Road load guidance letter
    a. Is there an updated window for release of the new EPA coastdown guidance letter?

I know it's a lot, sorry.

DAVID BARKER
Hyundai-Kia America Technical Center, Inc.
Senior Certification Engineer
Certification & Compliance
6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-2343
Fax : (734) 483-5919
E-mail: dbarker@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Rennie, Sandra [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=10BED68D488C4352BA4ABE46603E18E7-RENNIE, SANDRA]
Sent: 8/23/2013 3:42:01 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Good, David [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6a0a212fab8644b89798966a2fff3ab8-Good, David]
Subject: RE: Complaint about Kia mileage

Thank you for following up on this.

Sandra Rennie
Air Planning Section
EPA Region 6
(214) 665-7367

From: Ball, Joel
Sent: Friday, August 23, 2013 9:36 AM
To: Rennie, Sandra; Good, David
Subject: RE: Complaint about Kia mileage

I spoke to this individual and I think this issue is resolved from our standpoint although she is still not very satisfied with Kia.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Rennie, Sandra
Sent: Thursday, August 08, 2013 3:03 PM
To: Good, David; Ball, Joel
Subject: RE: Complaint about Kia mileage

Thank you, so much.

Sandra Rennie
Air Planning Section
EPA Region 6
(214) 665-7367

From: Good, David
Sent: Thursday, August 08, 2013 2:01 PM
To: Rennie, Sandra; Ball, Joel
Subject: RE: Complaint about Kia mileage

Sandra,

Thanks for forwarding the Kia complaint to us. I'm forwarding it to Joel Ball of EPA, who handles Kia.

Joel, when you get a chance, please give this person a call.

Thanks

From: Rennie, Sandra
Sent: Thursday, August 08, 2013 2:20 PM
To: Good, David
Subject: Complaint about Kia mileage

Dave, A lady called and asked who at EPA she could talk to about how her Kia gets such bad mileage. In addition, her vehicle is not on their list of vehicles eligible for compensation. So, I know I'm not the person she needs to speak with. Do you have any suggestions? She apparently is not getting any satisfaction from Kia. Plus she's checked the fuel economy guide and doesn't come close to that either.
Her name is PII / Ex. 6
I hope you day is going well.

Sandra Rennie
Air Planning Section
EPA Region 6
(214) 665-7367

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
on behalf of ComplianceInfo [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=271D6184018B47DD8E4AF6FA2E07749A-COMPLIANCEINFO]
Sent: 2/6/2013 1:00:40 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: 2nd Request for answer

Is this something we can respond to?
----- Forwarded by Holly Pugliese/AA/USEPA/US on 02/06/2013 08:00 AM -----

From: PII / Ex. 6
To: ComplianceInfo@EPA
Date: 02/05/2013 11:16 AM
Subject: 2nd Request for answer

Several months ago, I asked how the 'combined' EPA mileage rating is determined and did not receive an answer. My KIA RIO 201 2's EPA ratings were lowered by your agency. City mpg was lowered by 2mpg and HighwayMPG was lowered by 4 BUT combined only went down by 2mpg. Since the reimbursement from KIA is based on the combined figure, how is it determined?

PII / Ex. 6

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 2/12/2013 8:08:19 PM
To: PII / Ex. 6
CC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Re: David Good update of Hyundai Sonata regarding idling MPG, etc.

PII / Ex. 6

The fine print of every 2013 label reads "The average new vehicle gets 23 MPG and costs $11,600 to fuel over 5 years." That is the average of all cars and light trucks for 2013 model year vehicles. That statement is not meant for you to disregard the mpg values printed in large print on your label. [Every 2013 vehicle gets the fine print statement, from Prius models to Silverado pickup trucks.]

Dave

From: PII / Ex. 6
To: David Good/AA/USEPA/US@EPA
Date: 02/12/2013 04:11 AM
Subject: David Good update of Hyundai Sonata regarding idling MPG, etc.

David,

I discovered the sticker on the 2013 Hyundai Sonata proves the low mileage issue about mpg on the Sonata GLS. The sticker in **extremely large bold print says Hwy is 35 mpg, mixed is 28, city is 24**. In fine print below those advertised sticker ratings it says,"The **average new vehicle gets 23 MPG**...". How did the EPA miss this as a red flag? **I would not have bought the car** if I could have seen the **MPG inconsistency** through the **side window, glare and tiny print near the bottom of the same sticker**. Since the industry has a poor refund policy after the purchase, this is deceitful marketing and is worthy of review.

The transmission stalls the power with inconsistent power discharge **felt more obviously at 20 miles per hour** and **while idling eats up far more gas than should be expected**. It feels like it moves between 1st and 3nd gear at low speeds. It pulls back, then gives power boosting intermittently not due to driver acceleration or deceleration.

PII / Ex. 6

In a message dated 12/9/2012 8:02:42 P.M. Eastern Standard Time, Good.David@epamail.epa.gov writes:

I am out of the office until 12/10/2012.

Note: This is an automated response to your message **"mpg Test for "Idling" in Park & in Drive"** sent on **12/09/2012 07:02:37 PM.**

This is the only notification you will receive while this person is away.=

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
Sent: 2/12/2013 7:50:53 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: RE: Compliance Line Call
Attachments: image001.gif

Thanks. I bcc'd you on the response. Another satisfied customer!

From: Joel Ball [mailto:Ball.Joel@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 1:51 PM
To: Pugliese, Holly
Subject: RE: Compliance Line Call

I made a small change in red text below , please go ahead and send it form the compliance box

Thanks

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

Holly Pugliese---02/12/2013 01:10:37 PM---How's this? I wrote it as if it is being sent from the compliance box, but you can send it too if y

From: Holly Pugliese/AA/USEPA/US
To: Joel Ball/AA/USEPA/US
Date: 02/12/2013 01:10 PM
Subject: RE: Compliance Line Call

How's this? I wrote it as if it is being sent from the compliance box, but you can send it too if you want. Let me kno

Mr. PII / Ex. 6 Thank you for following up with EPA regarding the fuel economy relabeling program initiated by Hyundai/Kia. As Mr. Ball indicated to you, EPA has received a significant number of inquiries regarding our investigation, but because this investigation is ongoing, we are not able to address specific details at this time.
EPA has also received many questions about what EPA can do to address allegations of false advertising, class action lawsuits, vehicle buy backs or other consumer actions against Hyundai or Kia. Legal actions such as these by private citizens are beyond the purview of EPA. You may wish to contact the Better Business Bureau or other consumer advocacy organizations for guidance on these matters.

I hope this addresses your questions,

From: Joel Ball [mailto:Ball.Joel@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 11:10 AM
To: Pugliese, Holly
Subject: Fw: Compliance Line Call

His name is PII / Ex. 6 email is PII / Ex. 6 I told him that we cannot comment on the ongoing investigation at this time. He requested am email stating that.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
---- Forwarded by Joel Ball/AA/USEPA/US on 02/12/2013 11:07 AM ----

From: Judy Fearnside/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA, Joel Dalton/AA/USEPA/US@EPA
Date: 02/12/2013 10:00 AM
Subject: Compliance Line Call

Good morning,

Yesterday a man called twice about his Kia. He was yelling on the phone and was very upset both times. During the first call he said, "I spoke with Dale Appley (misspelled last name), who promised to send me info 3 weeks ago. My Kia is a total joke! I want to get rid of it. Please can you help me?" He did not say which Kia he owns and did not state a MY. The second call came in at the end of the day, he wanted to know why we did not get back with him. His phone number is PII / Ex. 6

I am not sure you are even responded to Hyundai/Kia owners at this time, but I thought I'd forward this one to you, since he's so upset.

Thank you,
Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative Agreement
under the SEE Progam for SSA, Inc.
Compliance Division
734- 214-4002

Message

From: Horton, John [JHorton@hatci.com]
Sent: 10/31/2013 6:20:41 PM
To: Pidgeon, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dfa739a206f04aaea55fabad6939dd01-Pidgeon, Bill]; 'jocain@arb.ca.gov' [jocain@arb.ca.gov]
CC: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; D'Ambrosi, Anthony [ADAmbrosi@hatci.com]; Babcock, Robert [rbabcock@hatci.com]
Subject: 3rd Quarter IUVP Reports for Hyundai and Kia
Attachments: 2013 3Q HYX IUVP Report.pdf; 2013 3Q HYX IUVP Report.xlsx; 2013 KMX 3Q IUVP Report.xlsx; 2013 KMX 3Q IUVP Report.pdf

To All,
For your information, HATCI's Certification and Compliance Department will be managing IUVP communications moving forward. So please feel free to contact myself or Tony D'Ambrosi with any questions.
HATCI's Power Train group (Lindsey Jeng) will continue to handle vehicle procurement and testing.

Attached are the 3rd quarter reports detailing testing performed under the IUVP during the 3rd Quarter of 2013 on behalf of Hyundai and Kia. Please contact me with any questions or concerns.

Thank you,

John Horton
Hyundai-Kia America Technical Center, Inc.
Senior Certification Engineer
Certification & Compliance
6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-3029
Fax : (734) 483-5919
E-mail: jhorton@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

2013 3Q HYX IUVP Report - Vehicle Information

VIN	Quarter	Mfr Code	Emission Program	Mileage Category	Test Group	Evaporative Family	Model Year
PII / Ex. 6	3Q	HYX	IUVB	H	9HYXV02.4SW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	H	9HYXV03.3NW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	H	9HYXV02.4SW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	H	9HYXT03.3PW5	9HYXR0160PDC	2009
	3Q	HYX	IUVB	H	9HYXT03.3PW5	9HYXR0160PDC	2009
	3Q	HYX	IUVB	H	9HYXT02.7CW5	9HYXR0160PDC	2009
	3Q	HYX	IUVB	H	9HYXV02.4SW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	L	CHYXV02.4XW5	CHYXR0155PDX	2012
	3Q	HYX	IUVB	L	CHYXV02.0XW5	CHYXR0155PDX	2012
	3Q	HYX	IUVB	L	CHYXV02.4YW5	CHYXR0155PDX	2012
	3Q	HYX	IUVB	L	CHYXT03.5PW5	CHYXR0160PDC	2012
	3Q	HYX	IUVB	L	CHYXV02.0XW5	CHYXR0155PDX	2012
	3Q	HYX	IUVB	L	CHYXT02.4CW5	CHYXR0160PDC	2012
	3Q	HYX	IUVB	H	9HYXV02.4SPC	9HYXR0139PPN	2009
	3Q	HYX	IUVB	L	CHYXV02.4YPC	CHYXR0155PPX	2012
	3Q	HYX	IUVB	H	9HYXT02.7CW5	9HYXR0160PDC	2009
	3Q	HYX	IUVB	H	9HYXV02.9FW5	9HYXR0148PSH	2009
	3Q	HYX	IUVB	H	9HYXV03.8DW5	9HYXR0140PDB	2009
	3Q	HYX	IUVB	H	9HYXV01.6MW5	9HYXR0120PDM	2009
	3Q	HYX	IUVB	H	9HYXV03.3NW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	H	9HYXV02.4SW5	9HYXR0155PDN	2009
	3Q	HYX	IUVB	H	9HYXT02.0JW5	9HYXR0125PDJ	2009
	3Q	HYX	IUVB	H	9HYXT03.3PW5	9HYXR0160PDC	2009

2013 3Q HYX IUVP Report - Vehicle Information

VIN	Build Date	Division/ Make Name	Division/ Make Code	Carline Code	Carline Name	Trans Type	Trans Lockup	Creeper Gear
PII / Ex. 6	08/04/2008	Hyundai	01	32	Sonata	A	Y	N
	05/23/2008	Hyundai	01	32	Sonata	A	Y	N
	08/15/2008	Hyundai	01	32	Sonata	M	N	N
	08/29/2008	Hyundai	01	52	Santa Fe 2WD	A	Y	N
	11/18/2008	Hyundai	01	53	Santa Fe 4WD	A	Y	N
	05/19/2009	Hyundai	01	52	Santa Fe 2WD	A	Y	N
	12/12/2008	Hyundai	01	32	Sonata	A	Y	N
	08/08/2011	Hyundai	01	132	Sonata	A	Y	N
	12/01/2011	Hyundai	01	132	Sonata Turbo	A	Y	N
	09/01/2011	Hyundai	01	132	Sonata	A	Y	N
	10/28/2011	Hyundai	01	53	Santa Fe 4WD	A	Y	N
	07/14/2011	Hyundai	01	132	Sonata Turbo	A	Y	N
	08/29/2011	Hyundai	01	52	Santa Fe 2WD	A	Y	N
	07/31/2008	Hyundai	01	132	Sonata	A	Y	N
	11/16/2011	Hyundai	01	132	Sonata	A	Y	N
	04/01/2009	Hyundai	01	53	Santa Fe 4WD	A	Y	N
	04/01/2009	Hyundai	01	23	Elantra Touring	A	Y	N
	11/01/2008	Hyundai	01	90	Genesis	A	Y	N
	05/01/2009	Hyundai	01	12	Accent	A	Y	N
	04/01/2008	Hyundai	01	32	Sonata	A	Y	N
	05/01/2008	Hyundai	01	32	Sonata	A	Y	N
	11/01/2008	Hyundai	01	70	Tucson 2WD	A	Y	N
	07/01/2008	Hyundai	01	53	Santa Fe 4WD	A	Y	N

2013 3Q HYX IUVP Report - Vehicle Information

VIN	# Of Trans Gears	Disp. (L)	Tire Size	Axle Ratio	Engine Code	ETW	AirAspiration Method	TestDrive Code
PII / Ex. 6	5	2.4	P215/60R16	3.31	G4KE-AC	3625	NA	3
	5	3.3	P215/60R16	3.33	G6DB-AC	3875	NA	3
	5	2.4	P215/60R16	3.25	G4KE-MC	3625	NA	3
	5	3.3	P235/60R18	3.68	G6DB-AC	4250	NA	3
	5	3.3	P235/60R18	3.68	G6DB-AC	4500	NA	3
	4	2.7	P235/70R16	4.52	G6EA-AC	4250	NA	3
	5	2.4	P215/55R17	3.31	G4KE-AC	3625	NA	3
	6	2.4	P205/65R16	2.89	G4KJ-AC	3500	NA	3
	6	2.0	P225/45R18	2.89	G4KH-AC	3750	NA	3
	6	2.4	P205/65R16	2.89	G4KJ-AC	3500	NA	3
	6	3.5	P235/60R18	3.20	G6DC-AC	4250	NA	3
	6	2.0	P225/45R18	2.89	G4KH-AC	3750	NA	3
	6	2.4	P235/65R17	3.91	G4KE-AC	4000	NA	3
	5	2.4	P215/60R16	3.31	G4KE-AC	3625	NA	3
	6	2.4	P205/65R16	2.89	G4KJ-ACS	3500	NA	3
	6	2.7	P235/70R16	4.52	G6EA-AC	4500	NA	5
	4	2.0	P205/55R16	4.12	G4GC-AC	3375	NA	3
	6	3.8	P225/55R17	3.91	G6DA-AC	4000	NA	1
	4	1.6	P185/65R14	4.04	G4ED4LMS	2750	NA	3
	5	3.3	P215/60R16	3.33	G6DB-AC	3875	NA	3
	5	2.4	P215/60R16	3.31	G4KE-AC	3625	NA	3
	5	2.0	P235/60R16	4.63	G4GC-AC	3625	NA	3
	5	3.3	P235/60R18	3.68	G6EA-AC	4500	NA	5

2013 3Q HYX IUVP Report - Vehicle Information

VIN	Vehicle Procured Sales Area	Vehicle Procured State	Vehicle Procured Altitude	Vehicle Procured Climate	Odometer at time of Procurement	75% Useful Life	Date of Inspection	Visual MIL Status
PII / Ex. 6	FA	MI	L	C	94647	Y	07/08/2013	N
	CA	CA	L	W	60491	N	07/22/2013	N
	CA	CA	L	W	56869	N	07/22/2013	N
	CA	CA	L	W	90313	Y	07/22/2013	N
	FA	MI	L	C	70289	N	08/12/2013	N
	CA	CA	L	W	70942	N	08/19/2013	N
	FA	MI	L	C	63327	N	09/09/2013	N
	FA	MI	L	C	36939	N	08/26/2013	N
	FA	MI	L	C	15077	N	08/26/2013	N
	FA	MI	L	C	22774	N	09/03/2013	N
	FA	MI	L	C	21234	N	09/17/2013	N
	CA	CA	L	W	29016	N	07/08/2013	N
	CA	CA	L	W	26517	N	08/26/2013	N
	CA	CA	L	W	105624	Y	10/14/2013	N
	CA	CA	L	W	14493	N	10/15/2013	N
	FA	CO	H	C	56555	N	07/29/2013	N
	FA	CO	H	C	60461	N	07/23/2013	N
	FA	CO	H	C	70829	N	07/22/2013	N
	FA	CO	H	C	90680	N	07/22/2013	N
	FA	CO	H	C	57876	N	07/30/2013	N
	FA	CO	H	C	79225	N	08/12/2013	N
	FA	CO	H	C	101929	Y	08/14/2013	N
	FA	CO	H	C	59145	N	08/06/2013	N

2013 3Q HYX IUVP Report - Vehicle Information

VIN	Commanded MIL Status	Active Trouble Codes Status	Readiness Status Complete?	Vehicle Rejection Code	Vehicle Comments
PII / Ex. 6	N	N	Y	0	HND-MI-13-27
	N	N	Y	0	HND-CA-13-07
	N	N	Y	0	HND-CA-13-08
	N	N	Y	0	HND-CA-13-11
	N	N	Y	0	HND-MI-13-39
	N	N	Y	0	HND-CA-13-14
	N	N	Y	0	HND-MI-13-44
	N	N	Y	0	HND-MI-13-43
	N	N	Y	0	HND-MI-13-42
	N	N	Y	0	HND-MI-13-45
	N	N	Y	0	HND-MI-13-47
	N	N	Y	0	HND-CA-13-04
	N	N	Y	0	HND-CA-13-15
	N	N	Y	0	HND-CA-13-19
	N	N	Y	0	HND-MI-13-20
	N	N	Y	0	HND-CO-13-275997
	N	N	Y	0	HND-CO-13-044092
	N	N	Y	0	HND-CO-13-043282
	N	N	Y	0	HND-CO-13-378770
	N	N	Y	0	HND-CO-13-451241
	N	N	Y	0	HND-CO-13-463264
	N	N	Y	0	HND-CO-13-038649
	N	N	Y	0	HND-CO-13-233300

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type	Odometer at start of test
PII / Ex. 6	H	07/11/2013	MI1327-1	HATCI - Ann Arbor	AR	L	61	94687
	H	07/25/2013	CA1307-1	HATCI - Chino	AR	L	61	60533
	H	07/24/2013	CA1308-1	HATCI - Chino	AR	L	61	56909
	H	07/25/2013	CA1311-1	HATCI - Chino	AR	L	61	90349
	H	08/14/2013	MI1339-1	HATCI - Ann Arbor	AR	L	61	70325
	H	08/23/2013	CA1314-1	HATCI - Chino	AR	L	61	70978
	H	09/11/2013	MI1344-1	HATCI - Ann Arbor	AR	L	61	63364
	L	08/30/2013	MI1343-1	HATCI - Ann Arbor	AR	L	61	36976
	L	08/28/2013	MI1342-1	HATCI - Ann Arbor	AR	L	61	15113
	L	09/05/2013	MI1345-1	HATCI - Ann Arbor	AR	L	61	22854
	L	09/19/2013	MI1347-1	HATCI - Ann Arbor	AR	L	61	21271
	L	07/10/2013	CA1304-1	HATCI - Chino	AR	L	61	29054
	L	08/29/2013	CA1315-1	HATCI - Chino	AR	L	61	26592
	H	10/16/2013	CA1319-1	HATCI - Chino	AR	L	61	105666
	L	10/17/2013	CA1320-1	HATCI - Chino	AR	L	61	14531
	H	07/31/2013	CO275997-1	Environmental Testing Corp	AR	H	61	56600
	H	08/01/2013	CO275997-2	Environmental Testing Corp	AR	H	61	56648
	H	07/26/2013	CO044092-1	Environmental Testing Corp	AR	H	61	60497
	H	07/29/2013	CO044092-2	Environmental Testing Corp	AR	H	61	60516
	H	07/24/2013	CO043285-1	Environmental Testing Corp	AR	H	61	70871
	H	07/23/2013	CO378770-1	Environmental Testing Corp	AR	H	61	90718
	H	08/01/2013	CO451241-1	Environmental Testing Corp	AR	H	61	57914
	H	08/02/2013	CO451241-2	Environmental Testing Corp	AR	H	61	57932
	H	08/13/2013	CO463264-1	Environmental Testing Corp	AR	H	61	79263
	H	08/15/2013	CO038649-1	Environmental Testing Corp	AR	H	61	101975
	H	08/08/2013	CO233300-1	Environmental Testing Corp	AR	H	61	59171

VIN	Trans Config As Tested	Dyno Target Coeff A	Dyno Target Coeff B	Dyno Target Coeff C	Dyno Set Coef A	Dyno Set Coef B	Dyno Set Coef C	Pass/Fail/ Void (Fed Standards)	Pass/Fail/ Void (CA Standards)
PII / Ex. 6	A	35.94	0.0258	0.01898	5.25	-0.0488	0.01921	P	NA
	A	42.09	-0.0004	0.01881	15.10	-0.1272	0.01916	NA	P
	M	35.64	-0.0330	0.01984	20.58	-0.3625	0.02147	NA	P
	A	40.64	0.0291	0.02900	13.50	-0.0168	0.02820	NA	F
	A	46.08	-0.0059	0.02970	14.97	-0.0319	0.02869	P	NA
	A	40.64	0.0291	0.02900	19.91	-0.0864	0.02887	NA	P
	A	35.94	0.0258	0.01898	9.01	-0.0593	0.01884	P	NA
	A	29.45	0.5673	0.01010	10.30	0.4004	0.01124	F	NA
	A	30.34	0.5752	0.01028	8.21	-0.0098	0.01652	P	NA
	A	29.45	0.5673	0.01010	11.68	0.2451	0.01219	P	NA
	A	29.73	0.6241	0.02029	11.39	0.1209	0.02382	P	NA
	A	30.34	0.5752	0.01028	8.67	0.3648	0.01184	NA	P
	A	26.57	0.4787	0.01996	10.03	0.2087	0.02145	NA	P
	A	35.94	0.0258	0.01898	17.57	-0.2123	0.02018	NA	P
	A	29.45	0.5673	0.01010	13.17	0.1666	0.01302	NA	P
	A	46.08	-0.0059	0.02969	24.13	-0.3121	0.03083	V	NA
	A	46.08	-0.0059	0.02969	25.16	-0.3390	0.03096	P	NA
	A	29.21	0.3587	0.01836	10.33	0.1444	0.01975	V	NA
	A	29.21	0.3587	0.01836	10.33	0.1444	0.01975	P	NA
	A	31.16	0.4241	0.01650	14.87	0.1559	0.01747	P	NA
	A	31.94	0.0512	0.01884	12.01	-0.1427	0.01973	P	NA
	A	42.09	-0.0004	0.01881	18.74	-0.1699	0.01928	V	NA
	A	42.09	-0.0004	0.01881	18.74	-0.1699	0.01928	P	NA
	A	35.94	0.0258	0.01898	12.12	-0.0257	0.01879	P	NA
	A	35.66	0.4030	0.02379	14.14	0.1887	0.02530	P	NA
	A	46.08	-0.5900	0.02970	19.69	0.0188	0.02829	P	NA

VIN	HC-Total Weighted result (g/m)	THC bag 1 result	THC bag 2 result	THC bag 3 result	CO Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	CO bag 1 result	CO bag 2 result	CO bag 3 result
PII / Ex. 6	0.04	0.164	0.005	0.013	0.98	4.2		2.20	0.68	0.62
	0.03	0.139	0.007	0.007	1.61		2.1	3.96	1.45	0.72
	0.03	0.106	0.002	0.011	1.66		2.1	2.38	0.70	1.14
	0.07	0.330	0.005	0.010	1.45		2.1	4.91	0.33	0.94
	0.03	0.142	0.005	0.007	1.47	4.2		2.72	1.11	1.21
	0.04	0.180	0.004	0.018	0.57		2.1	2.11	0.08	0.33
	0.05	0.188	0.003	0.017	1.04	4.2		2.17	0.55	1.10
	0.05	0.191	0.011	0.029	0.61	3.4		1.97	0.11	0.55
	0.03	0.114	0.002	0.004	0.39	3.4		1.53	0.08	0.11
	0.03	0.114	0.008	0.010	0.34	3.4		0.92	0.15	0.25
	0.01	0.064	0.000	0.001	0.19	3.4		0.80	0.03	0.05
	0.05	0.224	0.003	0.007	0.57		1.7	2.01	0.15	0.30
	0.02	0.079	0.004	0.011	1.07		1.7	1.90	0.72	1.10
	0.09	0.034	0.002	0.003	0.78		1.0	1.77	0.35	0.86
	0.01	0.034	0.001	0.001	0.26		1.0	0.59	0.20	0.14
	0.03	0.126	0.000	0.024	0.45	4.2		1.48	0.08	0.37
	0.02	0.086	0.000	0.013	0.55	4.2		0.55	1.99	0.05
	0.02	0.070	0.000	0.007	0.56	4.2		1.92	0.18	0.28
	0.02	0.099	0.002	0.010	0.57	4.2		1.85	0.19	0.33
	0.04	0.161	0.000	0.010	1.42	4.2		2.60	1.05	1.24
	0.02	0.087	0.000	0.005	0.24	4.2		1.03	0.01	0.10
	0.09	0.110	0.116	0.009	1.75	4.2		3.96	1.35	0.85
	0.02	0.081	0.000	0.010	1.80	4.2		3.81	1.53	0.78
	0.02	0.099	0.000	0.013	0.48	4.2		1.56	0.11	0.35
	0.05	0.230	0.000	0.013	1.10	4.2		3.57	0.21	0.91
	0.04	0.196	0.000	0.005	1.07	4.2		2.24	0.57	1.14

VIN	CO2 Weighted result (g/m)	CO2 bag 1 result	CO2 bag 2 result	CO2 bag 3 result	Nox Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	Nox bag 1 result	Nox bag 2 result	Nox bag 3 result
PII / Ex. 6	329.3	346.8	344.0	288.3	0.04	0.07		0.104	0.016	0.025
	350.2	376.5	363.1	305.9	0.02		0.07	0.060	0.002	0.011
	321.0	319.8	345.6	275.4	0.02		0.07	0.054	0.004	0.007
	376.1	404.2	381.7	344.3	0.03		0.07	0.074	0.019	0.013
	417.7	447.7	426.9	377.7	0.02	0.07		0.036	0.011	0.011
	384.8	415.5	386.5	358.3	0.04		0.07	0.131	0.010	0.011
	330.8	342.9	347.9	289.2	0.02	0.07		0.057	0.041	0.039
	334.7	345.5	356.0	286.2	0.20	0.05		0.311	0.020	0.010
	341.0	368.9	355.8	292.1	0.02	0.05		0.052	0.014	0.007
	322.7	339.0	341.5	274.9	0.01	0.05		0.016	0.013	0.008
	386.9	403.5	404.2	341.7	0.01	0.05		0.010	0.004	0.009
	325.8	349.8	339.2	282.3	0.02		0.05	0.067	0.011	0.009
	329.0	336.7	339.8	302.8	0.03		0.05	0.081	0.006	0.035
	324.0	333.5	340.9	284.9	0.01		0.02	0.029	0.000	0.004
	325.8	333.2	344.9	284.0	0.01		0.02	0.005	0.005	0.005
	407.1	441.8	417.2	362.1	0.04	0.07		0.159	0.008	0.009
	405.0	433.2	415.5	364.1	0.05	0.07		0.170	0.015	0.013
	293.5	312.5	300.0	266.8	0.04	0.07		0.126	0.013	0.012
	300.1	318.2	309.0	269.6	0.04	0.07		0.098	0.019	0.019
	390.3	406.8	417.3	327.0	0.03	0.07		0.029	0.034	0.014
	250.6	274.5	251.7	230.6	0.03	0.07		0.093	0.008	0.014
	361.6	388.4	374.1	317.9	0.01	0.07		0.044	0.008	0.002
	364.4	387.5	379.0	319.5	0.01	0.07		0.056	0.000	0.011
	307.9	322.8	321.2	271.5	0.05	0.07		0.171	0.017	0.012
	341.7	369.3	354.2	314.2	0.07	0.07		0.236	0.018	0.030
	403.3	424.8	416.4	362.2	0.04	0.07		0.113	0.026	0.011

VIN	NMOG Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	NMOG bag 1 result	NMOG bag 2 result	NMOG bag 3 result	MFR FE Weighted result (mpg)	FE bag 1 result	FE bag 2 result	FE bag 3 result
PII / Ex. 6	0.036	0.090		0.155	0.002	0.008	26.84	25.33	25.74	30.71
	0.027		0.055	0.120	0.002	0.003	25.09	23.10	24.25	28.82
	0.022		0.055	0.097	0.000	0.005	27.41	27.33	25.53	31.93
	0.071		0.055	0.317	0.006	0.006	23.38	21.43	23.16	25.59
	0.030	0.090		0.134	0.001	0.003	21.14	19.63	20.72	23.40
	0.040		0.055	0.173	0.002	0.012	22.94	21.10	22.89	24.66
	0.041	0.090		0.180	0.007	0.012	26.72	25.61	25.47	30.53
	0.043	0.075		0.170	0.006	0.018	26.45	25.44	24.94	30.94
	0.021	0.075		0.097	0.002	0.001	26.00	23.90	24.96	30.40
	0.028	0.075		0.108	0.008	0.007	27.48	26.07	25.99	32.28
	0.013	0.075		0.060	0.000	0.000	22.94	21.94	21.98	25.99
	0.043		0.04	0.200	0.002	0.003	27.08	25.03	26.08	31.30
	0.018		0.04	0.075	0.001	0.008	26.76	26.04	25.96	29.06
	0.008		0.01	0.032	0.001	0.001	27.31	26.40	26.01	31.02
	0.007		0.01	0.033	0.001	0.000	27.23	26.58	25.73	31.25
	0.030	0.090		0.119	0.000	0.019	21.70	19.91	21.21	24.40
	0.019	0.090		0.079	0.000	0.008	21.80	20.28	21.30	24.27
	0.014	0.090		0.061	0.000	0.005	30.07	28.04	29.48	33.12
	0.022	0.090		0.092	0.001	0.008	29.40	27.54	28.62	32.77
	0.032	0.090		0.153	0.000	0.002	22.54	21.52	21.13	26.91
	0.018	0.090		0.081	0.000	0.003	35.26	32.02	35.17	38.36
	0.079	0.090		0.094	0.112	0.006	24.28	22.41	23.51	27.72
	0.016	0.090		0.067	0.000	0.002	24.10	22.48	23.21	27.60
	0.021	0.090		0.090	0.000	0.008	28.67	27.19	27.54	32.54
	0.047	0.090		0.215	0.000	0.010	0.05	23.57	25.62	28.04
	0.039	0.090		0.188	0.000	0.001	21.85	20.64	21.21	24.31

VIN	Comb-CREE result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	FTP CREE Weighted result (g/m)	METHANE Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	METHANE bag 1 result	METHANE bag 2 result	METHANE bag 3 result
PII / Ex. 6										
	269	275		335.9	0.01	0.03		0.032	0.005	0.013
	283	284		341.7	0.01	0.03		0.023	0.000	0.003
	264	269		323.2	0.00	0.03		0.012	0.000	0.004
	327	342		387.3	0.00	0.03		0.007	0.000	0.001
	272		284	326.8	0.01		0.03	0.032	0.001	0.004
	284		328	330.8	0.00		0.03	0.007	0.003	0.004
	265		268	326.2	0.00		0.03	0.003	0.000	0.000

VIN	IUVP Test Comments
PII / Ex. 6	
	FAILED NMOG; Emitted 0.071g/m of NMOG exceeding standard of 0.055g/m
	Failed COMB-CREE.
	Void - FTP run with dyno sets from J2264 that did not pass
	Void - Temp <68 during Phase 1 and 2
	Void: Ambient bag ran out of sample Ph2, HC & Nox zero amb.

2013 3Q HYX IUVP Report - HFET Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	L	09/03/2013	MI1343-2	HATCI - Ann Arbor	AR	L	61
	L	08/29/2013	MI1342-2	HATCI - Ann Arbor	AR	L	61
	L	09/05/2013	MI1345-2	HATCI - Ann Arbor	AR	L	61
	L	09/23/2013	MI1347-2	HATCI - Ann Arbor	AR	L	61
	L	07/10/2013	CA1304-2	HATCI - Chino	AR	L	61
	L	08/29/2013	CA1315-2	HATCI - Chino	AR	L	61
	L	10/17/2013	CA1320-2	HATCI - Chino	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/ Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HWY NOX Weighted result (g/m)	In-use Standard	MFR FE (gpm)
PII / Ex. 6	36994	A	F	NA	0.01	0.07	44.31
	15150	A	P	NA	0.03	0.07	42.26
	15151	A	P	NA	0.03	0.07	42.26
	15152	A	P	NA	0.03	0.07	42.26
	15153	A	P	NA	0.03	0.07	42.26
	15154	A	P	NA	0.03	0.07	42.26
	15155	A	P	NA	0.03	0.07	42.26

VIN	Comb-CREE Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	HWY CREE Weighted result (mpg)
PII / Ex. 6	275	269		200.5
	283	284		210.2
	264	269		191.2
	327	342		252.7
	272		284	204.8
	284		328	226.5
	265		268	190

2013 3Q HYX IUVP Report - US06 Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	H	07/11/2013	MI1327-2	HATCI - Ann Arbor	AR	L	61
	H	07/25/2013	CA1307-2	HATCI - Chino	AR	L	61
	H	07/24/2013	CA1308-2	HATCI - Chino	AR	L	61
	H	07/25/2013	CA1311-2	HATCI - Chino	AR	L	61
	H	08/15/2013	MI1339-2	HATCI - Ann Arbor	AR	L	61
	H	08/23/2013	CA1314-2	HATCI - Chino	AR	L	61
	H	09/12/2013	MI1344-2	HATCI - Ann Arbor	AR	L	61
	L	09/03/2013	MI1343-3	HATCI - Ann Arbor	AR	L	61
	L	08/29/2013	MI1342-3	HATCI - Ann Arbor	AR	L	61
	L	08/30/2013	MI1342-4	HATCI - Ann Arbor	AR	L	61
	L	09/05/2013	MI1345-3	HATCI - Ann Arbor	AR	L	61
	L	09/20/2013	MI1347-3	HATCI - Ann Arbor	AR	L	61
	L	07/10/2013	CA1304-3	HATCI - Chino	AR	L	61
	L	08/29/2013	CA1315-3	HATCI - Chino	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HC-Total Weighted (g/m)	SFTP HC-NM-NOX-COMP Result (g/m)	In-use Standard (Federal)	In-use Standard (CA)
PII / Ex. 6	94698	A	P	NA	0.02	0.05	0.65	
	60545	A	NA	P	0.02	0.09		0.65
	56920	M	NA	P	0.03	0.04		0.65
	90360	A	NA	P	0.03	0.07		0.95
	70353	A	P	NA	0.03	0.05	0.95	
	70990	A	NA	P	0.05	0.06		0.65
	63393	A	P	NA	0.03	0.04	0.65	
	37015	A	P	NA	0.04	0.06	0.65	
	15171	A	V	NA	0.01	0.03	0.65	
	15195	A	P	NA	0.01	0.06	0.65	
	22885	A	P	NA	0.02	0.04	0.65	
	21299	A	P	NA	0.02	0.03	0.95	
	29086	A	NA	P	0.02	0.04		0.65
	26624	A	NA	P	0.02	0.03		0.95

VIN	SFTP CO-COMP Weighted (g/m)	In-use Standard (Federal)	In-use Standard (CA)	MFR FE Weighted result (gpm)	IUVP Test Comments
PII / Ex. 6	1.35	4.20		27.72	
	1.49		4.20	26.70	
	2.66		4.20	27.77	
	1.85		5.05	22.31	
	2.13	5.05		20.46	
	3.81		4.20	20.19	
	1.46	4.20		26.37	
	0.72	4.20		28.61	
	0.44	4.20		27.09	TEST VOID: Driver Errors
	0.37	4.20		27.09	
	0.54	4.20		29.53	
	0.15	5.00		22.84	
	0.63		4.20	28.16	
	2.26		5.00	23.49	

2013 3Q HYX IUVP Report - EVAP Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	H	08/15/2013	MI1339-3	HATCI- Ann Arbor	AR	L	61
	H	09/12/2013	MI1344-3	HATCI- Ann Arbor	AR	L	61
	L	08/31/2013	MI1343-4	HATCI- Ann Arbor	AR	L	61
	L	08/29/2013	MI1342-5	HATCI- Ann Arbor	AR	L	61
	L	09/20/2013	MI1347-4	HATCI- Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/Void (Fed Standards)	Pass/Fail/Void (CA Standards)	Test Procedure (23=EVAP, 24=ORVR)	HC-Total or HC Weighted (g/t) or (g/g)	In-use Standard
PII / Ex. 6	70353	A	P	NA	24	0.054	0.2
	63392	A	P	NA	24	0.084	0.65
	36987	A	P	NA	23	0.187	0.65
	15142	A	P	NA	24	0.042	0.2
	21299	A	P	NA	24	0.002	0.2

2013 3Q KMX IUVP Report - Vehicle Information

VIN	Quarter	Mfr Code	Emission Program	Mileage Category	Test Group	Evaporative Family	Model Year
PII / Ex. 6	3Q	KMX	IUVB	H	9KMXV01.6BW5	9KMXR0120PDJ	2009
	3Q	KMX	IUVB	H	9KMXV02.0LW5	9KMXR0110PDL	2009
	3Q	KMX	IUVB	H	9KMXV02.0LW5	9KMXR0110PDL	2009
	3Q	KMX	IUVB	H	9KMXV01.6BW5	9KMXR0120PDJ	2009
	3Q	KMX	IUVB	H	9KMXV02.4UW5	9KMXR0120PDU	2009
	3Q	KMX	IUVB	H	9KMXV02.4MW5	9KMXR0120PDM	2009
	3Q	KMX	IUVB	H	9KMXV02.4UW5	9KMXR0120PDU	2009
	3Q	KMX	IUVB	L	CKMXV03.5XW5	CKMXR0160PDX	2012
	3Q	KMX	IUVB	H	9KMXT03.8HM5	9KMXR0152PDH	2009
	3Q	KMX	IUVB	H	9KMXT03.8VW5	9KMXR0152PDV	2009
	3Q	KMX	IUVB	H	9KMXV02.4MW5	9KMXR0120PDM	2009
	3Q	KMX	IUVB	H	9KMXT02.7PW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT02.7PW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT03.8HM5	9KMXR0152PDH	2009
	3Q	KMX	IUVB	H	9KMXT02.7PW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXV02.4MW5	9KMXR0120PDM	2009
	3Q	KMX	IUVB	H	9KMXT03.3BM5	9KMXR0130PDB	2009
	3Q	KMX	IUVB	H	9KMXT03.8VW5	9KMXR0152PDV	2009
	3Q	KMX	IUVB	H	9KMXT03.3BM5	9KMXR0130PDB	2009
	3Q	KMX	IUVB	H	9KMXT02.0KW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT02.0KW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT02.7PW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT03.8HM5	9KMXR0152PDH	2009
	3Q	KMX	IUVB	H	9KMXV02.4UW5	9KMXR0120PDU	2009
	3Q	KMX	IUVB	L	CKMXT02.4CW5	CKMXR0160PDX	2012
	3Q	KMX	IUVB	L	CKMXV03.5XW5	CKMXR0160PDX	2012
	3Q	KMX	IUVB	L	CKMXT02.4CW5	CKMXR0160PDX	2012
	3Q	KMX	IUVB	H	9KMXT03.3BM5	9KMXR0130PDB	2009
	3Q	KMX	IUVB	H	9KMXT03.3BM5	9KMXR0130PDB	2009
	3Q	KMX	IUVB	H	9KMXV02.4UW5	9KMXR0120PDV	2009
	3Q	KMX	IUVB	H	9KMXV01.6BW5	9KMXR0120PDJ	2009
	3Q	KMX	IUVB	H	9KMXV02.4MW5	9KMXR0120PDM	2009
	3Q	KMX	IUVB	H	9KMXT02.7PW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT02.0KW5	9KMXR0125PDK	2009
	3Q	KMX	IUVB	H	9KMXT03.8VW5	9KMXR0152PDV	2009
	3Q	KMX	IUVB	H	9KMXT03.8HM5	9KMXR0152PDH	2009
	3Q	KMX	IUVB	H	9KMXV02.0LW5	9KMXR0110PDL	2009

2013 3Q KMX IUVP Report - Vehicle Information

VIN	Build Date	Division/ Make Name	Division/ Make Code	Carline Code	Carline Name	Trans Type	Trans Lockup	Creeper Gear
PII / Ex. 6	04/01/2009	Kia	01	118	Rio	M	N	N
	07/01/2008	Kia	01	408	Spectra	A	Y	N
	05/01/2008	Kia	01	408	Spectra	A	Y	N
	10/01/2008	Kia	01	118	Rio	M	N	N
	06/01/2008	Kia	01	908	Rondo	A	Y	N
	12/01/2008	Kia	01	318	Optima	A	Y	N
	07/01/2008	Kia	01	908	Rondo	A	Y	N
	09/01/2011	Kia	01	829	Sorento 2WD	A	Y	N
	09/01/2008	Kia	01	18	Borrego 4WD	A	Y	N
	03/01/2009	Kia	01	618	Sedona	A	Y	N
	11/01/2008	Kia	01	318	Optima	A	Y	N
	04/01/2008	Kia	01	718	Sportage 4WD	A	Y	N
	05/01/2008	Kia	01	719	Sportage 2WD	A	Y	N
	06/01/2008	Kia	01	18	Borrego 4WD	A	Y	N
	09/01/2008	Kia	01	719	Sportage 2WD	A	Y	N
	10/01/2008	Kia	01	318	Optima	A	Y	N
	09/01/2008	Kia	01	809	Sorento 2WD	A	Y	N
	10/01/2008	Kia	01	618	Sedona	A	Y	N
	04/01/2008	Kia	01	808	Sorento 4WD	A	Y	N
	05/01/2008	Kia	01	719	Sportage 2WD	M	N	N
	03/01/2008	Kia	01	719	Sportage 2WD	A	Y	N
	05/01/2008	Kia	01	719	Sportage 2WD	A	Y	N
	06/01/2008	Kia	01	18	Borrego 4WD	A	Y	N
	05/01/2008	Kia	01	908	Rondo	A	Y	N
	06/28/2011	Kia	01	819	Sorento 2WD	A	Y	N
	07/08/2011	Kia	01	828	Sorento 4WD	A	Y	N
	04/27/2011	Kia	01	819	Sorento 2WD	A	Y	N
	11/01/2008	Kia	01	809	Sorento 2WD	A	Y	N
	05/01/2008	Kia	01	808	Sorento 4WD	A	Y	N
	06/01/2008	Kia	01	908	Rondo	A	Y	N
	03/01/2009	Kia	01	118	Rio	M	N	N
	11/01/2008	Kia	01	318	Optima	A	N	N
	08/01/2008	Kia	01	718	Sportage 4WD	A	N	N
	05/01/2008	Kia	01	719	Sportage 2WD	A	N	N
	06/01/2009	Kia	01	618	Sedona	A	N	N
	07/01/2008	Kia	01	18	Borrego 4WD	A	N	N
	10/01/2008	Kia	01	408	Spectra	A	N	N

2013 3Q KMX IUVP Report - Vehicle Information

VIN	# Of Trans Gears	Disp. (L)	Tire Size	Axle Ratio	Engine Code	ETW	AirAspiration Method	TestDriveCode
PII / Ex. 6	5	1.6	P185/65R14	4.06	G4ED-MC	2875	NA	3
	4	2.0	P195/60R15	3.77	G4GC-AC	3125	NA	3
	4	2.0	P195/60R15	3.77	G4GC-AC	3125	NA	3
	5	1.6	P185/65R14	4.06	G4ED-MC	2750	NA	3
	4	2.4	P205/60R16	4.07	G4KE-AC	3750	NA	3
	5	2.4	P215/50R17	3.31	G4KE-AC	3500	NA	3
	4	2.4	P205/60R16	4.07	G4KE-AC	3750	NA	3
	6	3.5	P235/60R18	3.20	G6DC-AC	4250	NA	1
	5	3.8	P245/70R17	3.36	G6D4-AC	4750	NA	1
	5	3.8	P225/70R16	3.33	G6DA-AC	4750	NA	3
	5	2.4	P205/60R16	3.31	G4KE-AC	3500	NA	3
	4	2.7	P235/55R17	4.04	G6BA-AC	4000	NA	3
	4	2.7	P235/60R16	4.04	G6BA-AC	3875	NA	3
	5	3.8	P265/60R18	3.36	G6D4-AC	4750	NA	1
	4	2.7	P235/60R16	4.04	G6BA-AC	3875	NA	3
	5	2.4	P205/60R16	3.31	G4KE-AC	3500	NA	3
	5	3.3	P245/70R16	3.33	G6DB-AC	4500	NA	1
	5	3.5	P225/70R16	3.33	G6DA-AC	4750	NA	3
	5	3.3	P245/70R16	3.33	G6DB-AC	4750	NA	1
	5	2.0	P215/65R16	4.53	G4GC-MC	3625	NA	3
	4	2.0	P215/65R16	4.63	G4GC-AC	3625	NA	3
	4	2.7	P235/60R16	4.04	G6BA-AC	3875	NA	3
	5	3.8	P245/70R17	3.36	G6D4-AC	4750	NA	1
	4	2.4	P205/60R16	4.07	G4KE-AC	3750	NA	3
	6	2.4	P235/65R17	3.91	G4KE-AC	3875	NA	1
	6	3.5	P235/60R18	3.20	G6DC-AC	4500	NA	1
	6	2.4	P235/65R17	3.91	G4KE-AC	3875	NA	1
	5	3.3	P235/70R16	3.33	G6DB-AC	4500	NA	1
	5	3.3	P245/70R16	3.33	G6BDB-AC	4750	NA	5
	4	2.4	P205/60R16	4.07	G4KE-AC	3750	NA	3
	5	1.6	P185/65R14	4.06	G4ED-MC	2750	NA	3
	5	2.4	P205/60R16	3.31	G4KE-AC	3500	NA	3
	4	2.7	P235/60R16	4.04	G6BA-AC	4000	NA	5
	4	2.0	P215/65R16	4.63	G4GC-AC	3625	NA	3
	5	3.8	P225/70R16	3.33	G6DA-AC	4750	NA	3
	5	3.8	P245/70R17	3.36	G6D4-AC	4750	NA	5
	4	2.0	P195/60R15	3.77	G4GC-AC	3125	NA	3

2013 3Q KMX IUVP Report - Vehicle Information

VIN	Vehicle Procured Sales Area	Vehicle Procured State	Vehicle Procured Altitude	Vehicle Procured Climate	Odometer at time of Procurement	75% Useful Life	Date of Inspection	Visual MIL Status
PII / Ex. 6	FA	MI	L	C	103048	Y	07/01/2013	Y
	FA	MI	L	C	53761	Y	07/01/2013	N
	FA	MI	L	C	79586	N	07/02/2013	N
	FA	MI	L	C	61019	N	07/02/2013	N
	FA	MI	L	C	103582	Y	07/08/2013	N
	FA	MI	L	C	52177	N	07/09/2013	N
	FA	MI	L	C	81806	N	07/09/2013	N
	CA	CA	L	W	31840	N	07/15/2013	N
	FA	MI	L	C	62301	N	07/16/2013	N
	FA	MI	L	C	105228	Y	07/22/2013	N
	FA	MI	L	C	91154	Y	07/30/2013	N
	FA	MI	L	C	91886	Y	07/29/2013	N
	FA	MI	L	C	90333	N	07/29/2013	N
	CA	CA	L	W	68231	N	07/22/2013	N
	CA	CA	L	W	78926	N	08/05/2013	N
	CA	CA	L	W	76289	N	07/29/2013	N
	FA	MI	L	C	93486	Y	07/15/2013	N
	FA	MI	L	C	64374	N	08/06/2013	N
	FA	MI	L	C	78808	N	07/30/2013	N
	FA	MI	L	C	70150	N	07/30/2013	N
	FA	MI	L	C	70551	N	08/05/2013	N
	FA	MI	L	C	64766	N	08/12/2013	N
	FA	MI	L	C	105243	Y	07/22/2013	N
	FA	MI	L	C	72912	N	09/23/2013	N
	CA	CA	L	W	35891	N	09/06/2013	N
	FA	MI	L	C	14652	N	09/16/2013	N
	FA	MI	L	C	45277	N	09/17/2013	N
	CA	CA	L	W	80555	N	08/07/2013	N
	FA	CO	H	C	90357	N	07/31/2013	N
	FA	CO	H	C	82747	N	07/31/2013	N
	FA	CO	H	C	82343	N	07/30/2013	N
	FA	CO	H	C	72847	N	07/30/2013	N
	FA	CO	H	C	53865	N	07/30/2013	N
	FA	CO	H	C	60913	N	07/30/2013	N
	FA	CO	H	C	67364	N	07/22/2013	N
	FA	CO	H	C	92393	N	07/22/2013	N
	FA	CO	H	C	50821	N	07/23/2013	N

2013 3Q KMX IUVP Report - Vehicle Information

VIN	Commanded MIL Status	Active Trouble Codes Status	Readiness Status Complete?	Vehicle Rejection Code	Vehicle Rejection Comments / Vehicle Comments
PII / Ex. 6	N	Y	Y	0	KIA-MI-13-23; P0496, P0300, P0303, P0304, P0301
	N	N	N	0	KIA-MI-13-24
	N	N	N	1	KIA-MI-13-20
	N	N	N	2	KIA-MI-13-22
	N	N	N	3	KIA-MI-13-25
	N	N	N	4	KIA-MI-13-28
	N	N	N	5	KIA-MI-13-26
	N	N	N	6	KIA-CA-13-05
	N	N	N	7	KIA-MI-13-32
	N	N	N	8	KIA-MI-13-33
	N	N	N	9	KIA-MI-13-34
	N	N	N	10	KIA-MI-13-36; P0700, P0741
	N	N	N	11	KIA-MI-13-37: EGR incomplete, aftermarket catalysts
	N	N	N	12	KIA-CA-13-09
	N	N	N	13	KIA-CA-13-13
	N	N	N	14	KIA-CA-13-12 *Reprocured for US06 only on 8/26/13, with 96,435 miles, vehicle condition the same.
	N	N	N	15	KIA-MI-13-29*
	N	N	N	16	KIA-MI-13-31 +Reprocured vehicle for EVAP only on 8/20/2013, with 79,703 miles, vehicle condition the same.
	N	N	N	17	KIA-MI-13-35+
	N	N	N	18	KIA-MI-13-38# #Reprocured vehicle for EVAP only on 08/13/2013, with 70,393 miles, vehicle condition the same.
	N	N	N	19	KIA-MI-13-40
	N	N	N	20	KIA-MI-13-41; CAT/EVAP/EGR incomplete
	N	N	N	21	KIA-MI-13-30
	N	N	N	22	KIA-MI-13-48
	N	N	N	23	KIA-CA-13-18
	N	N	N	24	KIA-MI-13-46
	N	N	N	25	KIA-MI-13-49
	N	N	N	26	KIA-CA-13-10; Reprocured for US06 on 09/16/2013, with 82,549 miles, vehicle condition same. P2138, P2127, P2106
	N	N	N	27	KIA-CO-13-872889
	N	N	N	28	KIA-CO-13-223764
	N	N	N	29	KIA-CO-13-535834
	N	N	N	30	KIA-CO-13-317773
	N	N	N	31	KIA-CO-13-602268
	N	N	N	32	KIA-CO-13-573735
	N	N	N	33	KIA-CO-13-319544
	N	N	N	34	KIA-CO-13-018270
	N	N	N	35	KIA-CO-13-630677

2013 3Q KMX IUVP Report - FTP Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type	Odometer at start of test
PII / Ex. 6	H	07/04/2013	MI1323-1	HATCI - Ann Arbor	AR	L	61	103084
	H	07/04/2013	MI1324-1	HATCI - Ann Arbor	AR	L	61	53807
	H	07/05/2013	MI1320-1	HATCI - Ann Arbor	AR	L	61	79622
	H	07/05/2013	MI1322-1	HATCI - Ann Arbor	AR	L	61	61055
	H	07/10/2013	MI1325-1	HATCI - Ann Arbor	AR	L	61	103624
	H	07/12/2013	MI1328-1	HATCI - Ann Arbor	AR	L	61	52216
	H	07/12/2013	MI1326-1	HATCI - Ann Arbor	AR	L	61	81847
	L	07/17/2013	CA1305-1	HATCI - Chino	AR	L	61	31881
	H	07/19/2013	MI1332-1	HATCI - Ann Arbor	AR	L	61	62338
	H	07/25/2013	MI1333-1	HATCI - Ann Arbor	AR	L	61	105270
	H	08/01/2013	MI1334-1	HATCI - Ann Arbor	AR	L	61	91198
	H	07/31/2013	MI1336-1	HATCI - Ann Arbor	AR	L	61	91921
	H	07/27/2013	CA1309-1	HATCI - Chino	AR	L	61	68268
	H	08/09/2013	CA1313-1	HATCI - Chino	AR	L	61	78962
	H	07/31/2013	CA1312-1	HATCI - Chino	AR	L	61	76326
	H	07/17/2013	MI1329-1	HATCI - Ann Arbor	AR	L	61	93521
	H	08/09/2013	MI1331-1	HATCI - Ann Arbor	AR	L	61	64419
	H	08/02/2013	MI1335-1	HATCI - Ann Arbor	AR	L	61	78843
	H	08/23/2013	MI1335-3	HATCI - Ann Arbor	AR	L	61	79711
	H	08/02/2013	MI1338-1	HATCI - Ann Arbor	AR	L	61	70186
	H	08/16/2013	MI1338-3	HATCI - Ann Arbor	AR	L	61	70402
	H	08/07/2013	MI1340-1	HATCI - Ann Arbor	AR	L	61	70586
	H	08/16/2013	MI1341-1	HATCI - Ann Arbor	AR	L	61	64802
	H	07/24/2013	MI1330-1	HATCI - Ann Arbor	AR	L	61	105283
	H	09/26/2013	MI1348-1	HATCI - Ann Arbor	AR	L	61	72950
	L	09/12/2013	CA1318-1	HATCI - Chino	AR	L	61	35935
	L	09/18/2013	MI1346-1	HATCI - Ann Arbor	AR	L	61	14689
	L	09/20/2013	MI1349-1	HATCI - Ann Arbor	AR	L	61	45314
	H	08/09/2013	CA1310-1	HATCI - Chino	AR	L	61	80591
	H	08/01/2013	CO872889-1	Environmental Testing Corp	AR	H	61	90398
	H	08/01/2013	CO223764-1	Environmental Testing Corp	AR	H	61	82800
	H	07/31/2013	CO535834-1	Environmental Testing Corp	AR	H	61	82389
	H	08/02/2013	CO535834-2	Environmental Testing Corp	AR	H	61	82408
	H	07/31/2013	CO317773-1	Environmental Testing Corp	AR	H	61	72889
	H	08/02/2013	CO317773-2	Environmental Testing Corp	AR	H	61	72904
	H	07/31/2013	CO602268-1	Environmental Testing Corp	AR	H	61	53900
	H	07/31/2013	CO573795-1	Environmental Testing Corp	AR	H	61	60953
	H	08/06/2013	CO573795-2	Environmental Testing Corp	AM	H	61	60984
	H	07/24/2013	CO319544-1	Environmental Testing Corp	AR	H	61	67406
	H	07/24/2013	CO018270-1	Environmental Testing Corp	AR	H	61	92429
	H	07/24/2013	CO630677-1	Environmental Testing Corp	AR	H	61	50859
	H	07/25/2013	CO630677-2	Environmental Testing Corp	AR	H	61	50878

2013 3Q KMX IUVP Report - FTP Test Information

VIN	Trans Config As Tested	Dyno Target Coeff A	Dyno Target Coeff B	Dyno Target Coeff C	Dyno Set Coef A	Dyno Set Coef B	Dyno Set Coef C	Pass/Fail/ Void (Fed Standards)	Pass/Fail/ Void (CA Standards)
PII / Ex. 6	M	19.72	0.5599	0.0132	6.97	0.4048	0.0136	P	NA
	A	34.12	0.0177	0.0201	7.78	-0.2302	0.0226	P	NA
	A	34.12	0.0177	0.0201	15.51	-0.3524	0.0228	P	NA
	M	18.97	0.5481	0.0126	-2.81	0.5239	0.0119	P	NA
	A	43.86	0.0149	0.0234	20.97	-0.2723	0.0256	P	NA
	A	38.97	-0.0240	0.0210	9.94	0.0089	0.0194	P	NA
	A	43.86	0.0149	0.0234	24.24	-0.3512	0.0263	P	NA
	A	26.64	0.4158	0.0246	8.51	-0.0708	0.0290	NA	P
	A	33.80	1.2069	0.0208	14.94	0.3822	0.0269	P	NA
	A	44.97	-0.0857	0.0328	18.28	-0.2853	0.0337	P	NA
	A	38.97	-0.0240	0.0210	5.09	0.1338	0.0179	P	NA
	A	30.81	0.7701	0.0215	11.96	0.4092	0.0239	P	NA
	A	33.80	1.2069	0.0208	14.20	0.1467	0.0299	NA	P
	A	29.24	0.7292	0.0215	11.17	0.5664	0.0221	NA	P
	A	38.97	-0.0240	0.0210	16.41	-0.0126	0.0193	NA	P
	A	42.67	0.2401	0.0278	27.89	-0.5449	0.0343	P	NA
	A	44.97	-0.0857	0.0328	16.90	-0.1236	0.0317	P	NA
	A	47.28	0.2214	0.0297	31.82	-0.5254	0.0352	P	NA
	A	47.28	0.2214	0.0297	31.82	-0.5254	0.0352	V	NA
	M	34.34	0.3887	0.0225	17.68	0.1432	0.0236	P	NA
	M	34.34	0.3887	0.0225	17.68	0.1432	0.0236	P	NA
	A	35.66	0.4030	0.0238	19.87	0.0922	0.2500	P	NA
	A	29.24	0.7292	0.0215	9.68	0.4954	0.0223	P	NA
	A	33.80	1.2069	0.0208	15.89	0.1315	0.0292	F	NA
	A	43.86	0.0149	0.0234	27.67	-0.3514	0.0262	P	NA
	A	25.11	0.4595	0.0198	4.13	0.1732	0.0213	NA	P
	A	28.25	0.6241	0.0216	9.13	-0.2507	0.0299	P	NA
	A	25.11	0.4595	0.0198	10.38	0.1577	0.0214	P	NA
	A	42.67	0.2401	0.0278	27.61	-0.2512	0.0313	NA	P
	A	47.28	0.2214	0.0297	31.17	-0.4029	0.0340	P	NA
	A	43.86	0.0149	0.0234	24.78	-0.4747	0.0280	P	NA
	M	18.97	0.5481	0.0126	5.98	0.4103	0.0125	V	NA
	M	18.97	0.5481	0.0126	5.98	0.4103	0.0125	P	NA
	A	38.98	-0.0240	0.0210	12.35	-0.0418	0.0206	V	NA
	A	38.98	-0.0240	0.0210	12.35	-0.0418	0.0206	P	NA
	A	30.81	0.7701	0.0215	13.93	0.4096	0.0235	P	NA
	A	35.66	0.4030	0.0024	18.75	0.1368	0.0034	V	NA
	A	35.66	0.4030	0.0024	18.75	0.1368	0.0034	P	NA
	A	44.97	-0.0857	0.0328	19.26	-0.2107	0.0324	P	NA
	A	33.80	1.2069	0.0208	17.23	0.3684	0.0270	F	NA
	A	34.12	0.0177	0.0201	19.86	-0.5051	0.0247	V	NA
	A	34.12	0.0177	0.0201	19.86	-0.5051	0.0247	P	NA

2013 3Q KMX IUVP Report - FTP Test Information

VIN	HC-Total Weighted result (g/m)	THC bag 1 result	THC bag 2 result	THC bag 3 result	CO Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	CO bag 1 result	CO bag 2 result	CO bag 3 result
PII / Ex. 6	0.04	0.179	0.002	0.005	0.53	4.2		1.96	0.09	0.30
	0.03	0.125	0.003	0.007	0.44	4.2		0.96	0.26	0.40
	0.04	0.173	0.004	0.008	0.43	4.2		1.06	0.26	0.27
	0.02	0.099	0.001	0.001	0.17	4.2		0.79	0.00	0.03
	0.06	0.245	0.007	0.024	1.65	4.2		3.49	0.83	1.79
	0.04	0.152	0.003	0.013	1.05	4.2		1.99	0.71	0.96
	0.07	0.275	0.008	0.032	2.05	4.2		3.47	1.36	2.28
	0.03	0.112	0.006	0.021	1.16		1.7	2.65	0.78	0.76
	0.05	0.189	0.010	0.022	1.67	4.2		3.66	0.91	1.63
	0.04	0.175	0.002	0.007	1.01	4.2		2.62	0.27	1.19
	0.08	0.313	0.007	0.045	1.94	4.2		3.79	1.20	1.95
	0.06	0.241	0.005	0.020	1.64	4.2		3.91	0.94	1.24
	0.06	0.202	0.013	0.033	2.61		4.2	4.60	1.50	3.22
	0.06	0.222	0.007	0.021	2.06		2.1	4.89	1.39	1.20
	0.03	0.124	0.003	0.028	0.92		2.1	1.82	0.37	1.30
	0.05	0.200	0.006	0.010	0.83	4.2		1.95	0.47	0.67
	0.04	0.177	0.002	0.009	1.08	4.2		2.74	0.24	1.43
	0.08	0.313	0.010	0.018	1.57	4.2		3.21	1.01	1.37
	0.11	0.475	0.012	0.018	1.34	4.2		2.95	0.74	1.26
	0.03	0.109	0.003	0.004	0.52	4.2		1.27	0.26	0.44
	0.03	0.130	0.003	0.004	0.41	4.2		1.18	0.22	0.20
	0.04	0.173	0.005	0.009	0.46	4.2		1.45	0.15	0.31
	0.04	0.170	0.001	0.022	0.74	4.2		2.18	0.14	0.78
	0.10	0.368	0.022	0.040	4.30	4.2		6.63	3.83	3.43
	0.07	0.030	0.005	0.028	1.56	4.2		3.32	0.78	1.69
	0.02	0.084	0.003	0.006	0.58		1.7	1.72	0.16	0.51
	0.03	0.111	0.002	0.018	0.68	3.4		1.37	0.45	0.59
	0.02	0.091	0.002	0.006	0.61	3.4		1.65	0.22	0.59
	0.05	0.221	0.006	0.009	0.81		4.2	2.47	0.35	0.43
	0.05	0.218	0.000	0.022	1.26	4.2		3.18	0.48	1.30
	0.04	0.171	0.000	0.030	0.92	4.2		2.10	0.20	1.39
	0.07	0.109	0.088	0.003	0.37	4.2		1.59	0.00	0.15
	0.02	0.108	0.000	0.004	0.43	4.2		1.85	0.01	0.14
	0.09	0.141	0.100	0.028	1.00	4.2		1.87	0.49	1.29
	0.04	0.169	0.000	0.028	1.35	4.2		2.61	0.72	1.59
	0.04	0.167	0.000	0.015	1.17	4.2		3.49	0.53	0.65
	0.10	0.213	0.111	0.004	0.34	4.2		1.27	0.05	0.19
	0.03	0.118	0.000	0.006	0.40	4.2		1.50	0.11	0.11
	0.05	0.209	0.000	0.010	1.09	4.2		2.90	0.47	0.89
	0.10	0.204	0.101	0.026	1.95	4.2		4.69	0.95	1.78
	0.01	0.054	0.000	0.005	0.45	4.2		0.96	0.37	0.21
	0.02	0.102	0.000	0.004	0.48	4.2		1.10	0.31	0.33

2013 3Q KMX IUVP Report - FTP Test Information

VIN	CO2 Weighted result (g/m)	CO2 bag 1 result	CO2 bag 2 result	CO2 bag 3 result	Nox Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	Nox bag 1 result	Nox bag 2 result	Nox bag 3 result
PII / Ex. 6	287.6	283.1	304.6	258.8	0.018	0.07		0.064	0.007	0.004
	298.8	318.2	308.4	265.9	0.03	0.07		0.075	0.013	0.020
	298.9	315.8	309.9	265.4	0.03	0.07		0.093	0.008	0.009
	269.5	272.8	282.3	242.8	0.02	0.07		0.044	0.009	0.006
	350.8	371.2	359.9	318.2	0.03	0.07		0.136	0.005	0.013
	335.6	352.9	348.4	298.6	0.02	0.07		0.076	0.011	0.009
	356.0	373.4	366.7	322.7	0.04	0.07		0.133	0.001	0.026
	352.5	363.2	365.3	320.2	0.01		0.05	0.030	0.007	0.010
	464.8	490.5	481.1	414.7	0.02	0.07		0.041	0.011	0.009
	439.5	460.2	452.4	399.4	0.02	0.07		0.029	0.013	0.012
	324.1	347.2	335.7	284.8	0.03	0.07		0.118	0.009	0.007
	412.3	426.5	427.5	372.3	0.04	0.07		0.157	0.010	0.007
	434.3	467.6	450.8	378.0	0.01		0.07	0.031	0.013	0.006
	384.4	400.7	394.2	353.6	0.02		0.07	0.064	0.009	0.006
	305.5	323.3	317.2	270.0	0.03		0.07	0.070	0.016	0.010
	444.4	480.4	456.9	393.5	0.02	0.07		0.036	0.009	0.017
	440.8	464.0	456.6	393.7	0.02	0.07		0.040	0.011	0.006
	448.3	487.3	455.6	405.0	0.02	0.07		0.063	0.008	0.013
	458.3	500.8	465.9	411.8	0.02	0.07		0.047	0.012	0.011
	349.9	351.7	368.2	313.9	0.05	0.07		0.088	0.050	0.016
	355.6	361.2	373.2	318.2	0.05	0.07		0.098	0.043	0.012
	344.4	371.6	349.3	314.6	0.04	0.07		0.132	0.008	0.027
	411.7	429.9	426.2	370.7	0.02	0.07		0.068	0.009	0.007
	451.4	484.3	464.6	401.4	0.05	0.07		0.187	0.014	0.016
	349.9	370.7	360.3	314.4	0.03	0.07		0.116	0.001	0.008
	334.3	348.4	346.5	300.7	0.02		0.05	0.059	0.004	0.022
	395.4	405.1	415.8	349.4	0.01	0.05		0.015	0.004	0.007
	340.7	353.5	355.5	303.1	0.01	0.05		0.030	0.002	0.009
	419.0	458.2	421.9	383.9	0.01		0.07	0.032	0.007	0.005
	437.5	467.1	447.3	396.3	0.02	0.07		0.056	0.006	0.014
	340.8	359.2	351.6	306.5	0.06	0.07		0.260	0.002	0.010
	261.4	266.0	273.7	236.3	0.02	0.07		0.076	0.013	0.006
	263.1	263.7	277.0	236.4	0.02	0.07		0.065	0.011	0.005
	319.9	341.0	330.5	284.0	0.05	0.07		0.182	0.011	0.006
	324.3	344.9	337.0	284.7	0.05	0.07		0.191	0.012	0.016
	388.2	414.8	397.5	350.3	0.03	0.07		0.096	0.009	0.005
	305.7	324.0	319.1	266.8	0.04	0.07		0.133	0.012	0.016
	316.1	324.4	333.7	276.7	0.04	0.07		0.134	0.011	0.017
	427.1	457.4	441.0	378.0	0.02	0.07		0.037	0.017	0.014
	487.2	495.3	507.1	443.5	0.04	0.07		0.084	0.031	0.014
	275.8	300.1	281.9	246.0	0.03	0.07		0.082	0.015	0.012
	277.9	304.2	282.7	248.9	0.02	0.07		0.061	0.015	0.009

2013 3Q KMX IUVP Report - FTP Test Information

VIN	NMOG Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	NMOG bag 1 result	NMOG bag 2 result	NMOG bag 3 result	MFR FE Weighted result (mpg)	FE bag 1 result	FE bag 2 result	FE bag 3 result
PII / Ex. 6	0.037	0.090		0.173	0.002	0.002	30.73	30.93	29.10	34.21
	0.028	0.090		0.121	0.002	0.005	29.61	27.71	28.72	33.27
	0.038	0.090		0.170	0.003	0.006	29.64	27.93	28.63	33.41
	0.020	0.090		0.095	0.001	0.000	32.86	32.32	31.41	36.52
	0.056	0.090		0.236	0.005	0.017	25.12	23.53	24.59	27.66
	0.033	0.090		0.145	0.001	0.009	26.33	24.92	25.42	29.60
	0.064	0.090		0.265	0.004	0.024	24.72	23.40	24.09	27.22
	0.026		0.04	0.100	0.000	0.019	24.97	24.07	24.15	27.54
	0.044	0.090		0.175	0.006	0.014	19.00	17.88	18.41	21.29
	0.035	0.090		0.164	0.001	0.003	20.13	19.11	19.62	22.13
	0.075	0.090		0.303	0.004	0.038	27.13	25.09	26.31	30.84
	0.054	0.090		0.235	0.002	0.015	21.40	20.50	20.71	23.73
	0.047		0.09	0.186	0.007	0.019	20.18	18.61	19.53	23.10
	0.050		0.055	0.211	0.003	0.015	22.82	21.64	22.33	24.89
	0.030		0.055	0.114	0.002	0.020	28.82	27.11	27.85	32.52
	0.042	0.090		0.189	0.003	0.005	19.92	18.35	19.41	22.51
	0.037	0.090		0.169	0.002	0.004	20.07	18.95	19.44	22.44
	0.068	0.090		0.299	0.006	0.012	19.70	18.01	19.43	21.81
	0.106	0.090		0.468	0.010	0.012	19.28	17.52	19.02	21.46
	0.023	0.090		0.103	0.003	0.003	25.32	25.09	24.10	28.23
	0.028	0.090		0.124	0.002	0.003	24.90	24.42	23.75	27.86
	0.039	0.090		0.167	0.004	0.007	25.73	23.73	25.41	28.19
	0.040	0.090		0.166	0.000	0.019	21.47	20.44	20.80	23.84
	0.084	0.090		0.357	0.010	0.027	19.38	17.91	18.87	21.83
	0.068	0.090		0.289	0.004	0.022	25.20	23.57	24.58	28.01
	0.019		0.04	0.080	0.004	0.002	26.40	25.19	25.53	29.35
	0.026	0.075		0.104	0.001	0.014	22.41	21.80	21.33	25.36
	0.019	0.075		0.086	0.001	0.003	26.00	24.93	24.97	29.22
	0.047		0.09	0.206	0.005	0.006	21.05	19.12	20.95	23.02
	0.045	0.090		0.200	0.000	0.053	20.13	18.72	19.76	22.20
	0.040	0.090		0.163	0.000	0.023	25.85	24.38	25.15	28.67
	0.068	0.090		0.103	0.090	0.001	33.71	32.93	32.31	37.42
	0.022	0.090		0.103	0.000	0.002	33.55	33.17	31.95	37.41
	0.086	0.090		0.132	0.101	0.021	27.51	25.70	26.69	30.94
	0.039	0.090		0.158	0.000	0.021	27.11	25.33	26.18	30.81
	0.036	0.090		0.157	0.000	0.012	22.69	21.04	22.22	25.19
	0.100	0.090		0.202	0.111	0.002	28.87	27.09	27.71	33.14
	0.024	0.090		0.109	0.000	0.004	27.94	27.06	26.51	31.97
	0.043	0.090		0.196	0.000	0.006	20.63	19.13	20.04	23.33
	0.094	0.090		0.184	0.099	0.018	18.04	17.59	17.40	19.83
	0.011	0.090		0.048	0.000	0.003	32.01	29.33	31.33	35.94
	0.021	0.090		0.097	0.000	0.002	31.76	28.90	31.26	35.49

2013 3Q KMX IUVP Report - FTP Test Information

VIN	Comb-CREE Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	FTP CREE Weighted result (g/m)	METHANE Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	METHANE bag 1 result	METHANE bag 2 result	METHANE bag 3 result
PII / Ex. 6	302.0		339	354.4	0.01		0.03	0.0164	0.0058	0.0038
	284.0		312	335.3	0.00		0.03	0.0074	0.0000	0.0032
	332.0	370.0		396.5	0.00	0.03		0.0127	0.0019	0.0050
	292.0	312.0		341.8	0.00	0.03		0.0089	0.0011	0.0033

2013 3Q KMX IUVP Report - FTP Test Information

	IUVP Test Comments
PII / Ex. 6	
	VOID: Not started after fuel drain/fill causingno/long start for FTP, ok for 2DBL prep.
	FTP for EVAP only
	Vehicle failed CO (emitted 4.3/standard is 4.2)
	Void - Ph2 Ambient ran out of sample for Nox & HC
	Void - Ph2 Ambient ran out of sample for HC
	Void - Ph2 Ambient ran out of sample for HC
	AM - Outstanding campaign performed for ECU update before retest
	Reported as NMOG failure. Ambient Bag Ph2 ran out of sample for HC& Nox - discovered after vehicle released.
	Void - FTP soak 11.5 hours

2013 3W KMX IUVP Report - HFET Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	L	07/17/2013	CA1305-2	HATCI - Chino	AR	L	61
	L	09/12/2013	CA1318-2	HATCI - Chino	AR	L	61
	L	09/19/2013	MI1346-2	HATCI - Ann Arbor	AR	L	61
	L	09/23/2013	MI1349-2	HATCI - Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/ Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HWY NOX Weighted result (g/m)	In-use Standard	MFR FE (gpm)
PII / Ex. 6	31892	A	NA	P	0.01	0.07	37.27
	35946	A	NA	P	0.01	0.07	39.89
	14725	A	P	NA	0.01	0.07	34.98
	45333	A	P	NA	0.01	0.07	38.27

VIN	Comb-CREE Weighted result (g/m)	In-use Standard (Federal)	In-use Standard (CA)	HWY CREE Weighted result (g/m)
PII / Ex. 6	308		339	237.5
	284		312	221.9
	332	370		254.0
	292	312		232.2

2013 3Q KMX IUVP Report - US06 Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	H	07/04/2013	MI1323-2	HATCI - Ann Arbor	AR	L	61
	H	07/04/2013	MI1324-2	HATCI - Ann Arbor	AR	L	61
	H	07/08/2013	MI1320-2	HATCI - Ann Arbor	AR	L	61
	H	07/08/2013	MI1322-2	HATCI - Ann Arbor	AR	L	61
	H	07/10/2013	MI1325-2	HATCI - Ann Arbor	AR	L	61
	H	07/16/2013	MI1328-2	HATCI - Ann Arbor	AR	L	61
	H	07/16/2013	MI1326-2	HATCI - Ann Arbor	AR	L	61
	L	07/17/2013	CA1305-3	HATCI - Chino	AR	L	61
	H	07/23/2013	MI1332-2	HATCI - Ann Arbor	AR	L	61
	H	07/25/2013	MI1333-2	HATCI - Ann Arbor	AR	L	61
	H	08/02/2013	MI1334-2	HATCI - Ann Arbor	AR	L	61
	H	08/01/25013	MI1336-2	HATCI - Ann Arbor	AR	L	61
	H	07/24/2013	CA1309-2	HATCI - Chino	AR	L	61
	H	08/09/2013	CA1313-2	HATCI - Chino	AR	L	61
	H	07/31/2013	CA1312-2	HATCI - Chino	AR	L	61
	H	08/01/2013	CA1312-3	HATCI - Chino	AR	L	61
	H	07/19/2013	MI1329-2	HATCI - Ann Arbor	AR	L	61
	H	08/27/2013	MI1329-3	HATCI - Ann Arbor	AR	L	61
	H	08/12/2013	MI1331-2	HATCI - Ann Arbor	AR	L	61
	H	08/02/2013	MI1335-2	HATCI - Ann Arbor	AR	L	61
	H	08/02/2013	MI1338-2	HATCI - Ann Arbor	AR	L	61
	H	08/07/2013	MI1340-2	HATCI - Ann Arbor	AR	L	61
	H	08/16/2013	MI1341-2	HATCI - Ann Arbor	AR	L	61
	H	07/25/2013	MI1330-2	HATCI - Ann Arbor	AR	L	61
	H	09/27/2013	MI1348-2	HATCI - Ann Arbor	AR	L	61
	L	09/12/2013	CA1318-3	HATCI - Chino	AR	L	61
	L	09/19/2013	MI1346-3	HATCI - Ann Arbor	AR	L	61
	L	09/23/2013	MI1349-3	HATCI - Ann Arbor	AR	L	61
	H	08/09/2013	CA1310-2	HATCI - Chino	AR	L	61
	H	09/19/2013	CA1310-3	HATCI - Chino	AR	L	61

2013 3Q KMX IUVP Report - US06 Test Information

VIN	Odometer at start of test	Trans Config As Tested	Pass/Fail/ Void (Fed Standards)	Pass/Fail/Void (CA Standards)	HC-Total Weighted (g/m)	SFTP HC-NM-NOX-COMP Result (g/m)	In-use Standard (Federal)	In-use Standard (CA)
PII / Ex. 6	103095	M	P	NA	0.01	0.03	0.65	
	53819	A	P	NA	0.03	0.05	0.65	
	79633	A	P	NA	0.03	0.05	0.65	
	61066	M	P	NA	0.01	0.05	0.65	
	103635	A	P	NA	0.03	0.05	0.65	
	52227	A	P	NA	0.02	0.03	0.65	
	81858	A	P	NA	0.05	0.06	0.65	
	31912	A	NA	P	0.02	0.03		0.65
	62349	A	P	NA	0.05	0.06	0.95	
	105281	A	P	NA	0.04	0.05	0.95	
	91227	A	P	NA	0.05	0.06	0.65	
	91941	A	P	NA	0.02	0.08	0.95	
	68279	A	NA	P	0.03	0.06		0.95
	78793	A	NA	P	0.03	0.05		0.95
	76337	A	NA	V	0.02	0.04		0.65
	76354	A	NA	P	0.02	0.04		0.65
	93550	A	V	NA	0.03	0.04	0.95	
	96444	A	P	NA	0.04	0.05	0.95	
	64430	A	P	NA	0.04	0.05	0.95	
	78855	A	P	NA	0.04	0.06	0.95	
	70197	M	P	NA	0.04	0.05	0.65	
	70597	A	P	NA	0.03	0.06	0.65	
	64813	A	P	NA	0.02	0.05	0.95	
	105312	A	F	NA	0.10	0.14	0.95	
	72978	A	P	NA	0.05	0.06	0.65	
	35967	A	NA	P	0.01	0.04		0.95
	14745	A	P	NA	0.02	0.03	0.65	
	45354	A	P	NA	0.01	0.03	0.95	
	80602	A	NA	V	0.04	0.05		0.95
	82612	A	NA	P	0.03	0.05		0.95

2013 3Q KMX IUVP Report - US06 Test Information

VIN	SFTP CO-COMP Weighted (g/m)	In-use Standard (Federal)	In-use Standard (CA)	MFR FE Weighted result (gpm)	IUVP Test Comments
PII / Ex. 6	0.53	4.20		30.31	
	0.99	4.20		28.76	
	1.40	4.20		28.60	
	0.20	4.20		33.97	
	1.65	4.20		24.40	
	0.93	4.20		27.19	
	1.87	4.20		24.12	
	1.25		4.20	23.15	
	2.48	5.05		18.39	
	3.86	5.05		19.31	CO analyzer may have maxed out druing sample bag reading.
	1.84	4.20		27.73	
	2.94	5.05		20.37	
	2.78		5.05	19.83	
	2.98		5.05	21.69	
	0.97		4.20	29.11	VOID: Trace Errors
	1.05		4.20	27.72	
	1.27	5.05		18.57	VOID: Targets Invalid
	0.96	5.05		20.14	
	3.90	5.05		19.43	
	1.82	5.05		19.21	
	3.59	4.20		24.72	
	2.23	4.20		23.12	
	1.92	5.05		20.77	
	5.18	5.05		18.26	Vehicle Failed Comp-CO (emitted 5.18/ standard is 5.05)
	2.37	4.20		23.68	
	1.54		5.00	24.51	
	1.07	4.20		21.49	
	1.20	5.00		24.65	
	0.97		5.05	19.81	TEST VOID: 2.5 second trace error
	0.90		5.05	19.87	Re-derivated for re-test - A: 29.71, B: -0.264, C: 0.0312

2013 3Q KMX IUVP Report - EVAP Test Information

VIN	Mileage Category	Test Date	Manufacturer Test #	Laboratory Name	Test Condition	Test Altitude	Fuel Type
PII / Ex. 6	H	07/05/2013	MI1320-3	HATCI - Ann Arbor	AR	L	61
	H	07/05/2013	MI1322-3	HATCI - Ann Arbor	AR	L	61
	H	07/12/2013	MI1328-3	HATCI - Ann Arbor	AR	L	61
	H	07/12/2013	MI1326-3	HATCI - Ann Arbor	AR	L	61
	H	07/19/2013	MI1332-3	HATCI - Ann Arbor	AR	L	61
	H	08/02/2013	MI1334-3	HATCI - Ann Arbor	AR	L	61
	H	08/01/2013	MI1336-3	HATCI - Ann Arbor	AR	L	61
	H	07/18/2013	MI1329-4	HATCI - Ann Arbor	AR	L	61
	H	08/09/2013	MI1331-3	HATCI - Ann Arbor	AR	L	61
	H	08/23/2013	MI1335-4	HATCI - Ann Arbor	AR	L	61
	H	08/20/2013	MI1338-4	HATCI - Ann Arbor	AR	L	61
	H	07/25/2013	MI1330-3	HATCI - Ann Arbor	AR	L	61
	H	09/27/2013	MI1348-3	HATCI - Ann Arbor	AR	L	61
	L	09/19/2013	MI1346-4	HATCI - Ann Arbor	AR	L	61
	L	09/20/2013	MI1349-4	HATCI - Ann Arbor	AR	L	61

VIN	Odometer at start of test	Trans Config As Tested	Test Procedure (23=EVAP, 24=ORVR)	Pass/Fail/Void (Fed Standards)	Pass/Fail/ Void (CA Standards)	HC-Total or HC Weighted (g/t) or (g/g)	In-use Standard
PII / Ex. 6	79633	A	23	P	NA	0.151	0.65
	61055	M	23	P	NA	0.328	0.65
	52227	A	23	P	NA	0.251	0.65
	81858	A	23	P	NA	0.172	0.65
	62349	A	23	P	NA	0.233	0.85
	91227	A	24	P	NA	0.125	0.2
	91949	A	24	P	NA	0.197	0.2
	93550	A	24	P	NA	0.069	0.85
	64430	A	23	P	NA	0.326	0.85
	79722	A	23	P	NA	0.224	0.85
	70432	M	23	P	NA	0.827	0.85
	105312	A	24	P	NA	0.033	0.85
	72978	A	24	P	NA	0.016	0.65
	14717	A	24	P	NA	0.001	0.2
	45325	A	23	P	NA	0.533	0.65

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
on behalf of ComplianceInfo [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=271D6184018B47DD8E4AF6FA2E07749A-COMPLIANCEINFO]
Sent: 2/12/2013 7:47:43 PM
To: Personal Address / Ex. 6
BCC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Inquiry Reagarding Your Kia Vehicle

Citizen Name / Ex. 6 Thank you for following up with EPA regarding the fuel economy relabeling program initiated by Hyundai/Kia. As Mr. Ball indicated to you, EPA has received a significant number of inquiries regarding our investigation, but because this investigation is ongoing, we are not able to address specific details at this time.

EPA has also received many questions about what EPA can do to address allegations of false advertising, class action lawsuits, vehicle buy backs or other consumer actions against Hyundai or Kia. Legal actions such as these by private citizens are beyond the purview of EPA. You may wish to contact the Better Business Bureau or other consumer advocacy organizations for guidance on these matters.

I hope this addresses your questions,

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
Sent: 2/12/2013 6:10:31 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: RE: Compliance Line Call

How's this? I wrote it as if it is being sent from the compliance box, but you can send it too if you want. Let me kno

Citizen Name / Ex. 6 Thank you for following up with EPA regarding the fuel economy relabeling program initiated by Hyundai/Kia. As Mr. Ball indicated to you, EPA has received a significant number of inquiries regarding our investigation, but because this investigation is ongoing, we are not able to address specific details at this time.
EPA has also received many questions about what EPA can do to address false advertising, class action lawsuits, vehicle buy backs or other consumer actions against Hyundai or Kia. Legal actions such as these by private citizens are beyond the purview of EPA. You may wish to contact the Better Business Bureau or other consumer advocacy organizations for guidance on these matters.

I hope this addresses your questions,

From: Joel Ball [mailto:Ball.Joel@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 11:10 AM
To: Pugliese, Holly
Subject: Fw: Compliance Line Call

His name is Citizen Name / Ex. 6 I told him that we cannot comment on the ongoing investigation at this time. He requested am email stating that.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
----- Forwarded by Joel Ball/AA/USEPA/US on 02/12/2013 11:07 AM -----

From: Judy Fearnside/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA, Joel Dalton/AA/USEPA/US@EPA
Date: 02/12/2013 10:00 AM
Subject: Compliance Line Call

Good morning,

Yesterday a man called twice about his Kia. He was yelling on the phone and was very upset both times. During the first call he said, "I spoke with Dale Appley (misspelled last name), who promised to send me info 3 weeks ago. My Kia is a total joke! I want to get rid of it. Please can you help me?" He did not say which Kia he owns and did not state a MY. The second call came in at the end of the day, he wanted to know why we did not get back with him. His phone number is Personal Phone / Ex. 6

I am not sure you are even responded to Hyundai/Kia owners at this time, but I thought I'd forward this one to you, since he's so upset.

Thank you,
Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative Agreement
under the SEE Progam for SSA, Inc.
Compliance Division
734- 214-4002

Message

From: Belser, Evan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D9A0635C271A4BAC9C20634E45083C66-BELSER, EVAN]
Sent: 8/26/2013 2:04:15 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: RE: Lawyer Looking for Information Related to Kia/Hyundai Fuel Economy Investigation

Good morning guys,

Attorney Client / Ex. 5

Thanks,
Evan

From: Ball, Joel
Sent: Friday, August 23, 2013 2:24 PM
To: Belser, Evan
Cc: Wehrly, Linc
Subject: FW: Lawyer Looking for Information Related to Kia/Hyundai Fuel Economy Investigation

Would you like to respond to this?

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Good, David
Sent: Monday, August 19, 2013 12:33 PM
To: Ball, Joel
Cc: Wehrly, Linc; Alexis.Schayowitz@icfi.com
Subject: RE: Lawyer Looking for Information Related to Kia/Hyundai Fuel Economy Investigation

Joel,

Please let me know if you want me to call this lawyer.

[I don't think there is much we can help him with. He will understand that once we open up an investigation, there is not much we can release to the public.]

Alexis is asking.

Thanks

From: Good, David
Sent: Tuesday, August 13, 2013 4:51 PM
To: Ball, Joel
Cc: Wehrly, Linc
Subject: FW: Lawyer Looking for Information Related to Kia/Hyundai Fuel Economy Investigation

Joel,

Can you give this person a call or should I? [Don't bother to listen to the voicemail message---it doesn't contain any new information to Alexis's message.

Alexis works for a DOE contractor who handles questions received via www.fueleconomy.gov.

I think he's fishing for information about EPA's investigation of Hyundai/Kia. [Of course, we can't tell him much about OECA's investigation while it is in progress.]

Thanks

Dave

From: Schayowitz, Alexis [mailto:Alexis.Schayowitz@icfi.com]
Sent: Tuesday, August 13, 2013 9:46 AM
To: Good, David
Subject: Lawyer Looking for Information Related to Kia/Hyundai Fuel Economy Issues

Hi Dave,

We received the attached voicemail from Benjamin Arem at the law firm Knopf & Brown in Maryland (arem@knopf-brown.com, 301-545-6100). He is looking information about the investigation into fuel economy issues with Kia and Hyundai vehicles. I'm happy to send him the general EPA contact information (complianceinfo@epa.gov, 734-214-4343), but I just wanted to check to see if there is another way you handle this type of request.

Please let me know either way.

Thanks,
Alexis

ALEXIS SCHAYOWITZ | Senior Associate | 617.250.4281 (o) | alexis.schayowitz@icfi.com
ICF INTERNATIONAL | 100 Cambridgepark Drive, Cambridge, MA 02140 | icfi.com

Message

From: French, Roberts [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0C2BB2BD2583415DA682F78CBE2154BC-FRENCH, ROBERTS]
Sent: 11/18/2013 12:48:24 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: FW: 2013 Kia Optima MPG

Flag: Follow up

Joel,

Are you still handling these?

Thanks,
Rob

Roberts W. French, Jr.
Environmental Protection Specialist
Compliance Division
National Vehicle and Fuel Emissions Laboratory
2000 Traverwood Drive
Ann Arbor, Michigan 48105
Phone: (734) 214-4380
Fax: (734) 214-4053

From: PII / Ex. 6
Sent: Friday, November 15, 2013 2:24 PM
To: French, Roberts
Subject: Re: 2013 Kia Optima MPG

Mr French,
I am writing you again in hopes of discussing the MPG performance of my car as stated below. I would appreciation some time to review my case with you and see what can be done to assist me and help out other consumers who are likely going through the same pains as I am.

As of today, Kia closed the case with the conclusion that, while my car is receiving 25% less MPG than the sticker estimates, there is nothing wrong with the vehicle and it is performing to manufactured specifications

Please contact me at your earliest convenience. I look forward to speaking with you.

Thank you,

PII / Ex. 6

From: PII / Ex. 6
To: "french.roberts@epa.gov" <french.roberts@epa.gov>
Sent: Monday, September 23, 2013 1:51 PM
Subject: 2013 Kia Optima MPG

Mr. French,

I am hoping you might be able to assist me. I leased a new Kia Optima about one year ago and the car gets significantly less mileage per gallon than what is estimated on the sticker. For the life of the vehicle I have averaged 23mpg (while driving 55% of the time on the highway) which is not even in the range of the what the sticker estimates for this car. I have backup to support the numbers if necessary.

I have spoken to Kia many times and have had the car checked out as recently as today and they continue to tell me there is nothing wrong with the car. I am hoping you, or one of your colleagues can help me out. When I got this car they told me I could expect to get close to what the sticker estimates and I am not even in the range on the sticker. I believe this problem is not isolated to me and that this is another case where Kia significantly overstated the mileage on the stickers.

I look forward to hearing back.

Thank you,

PII / Ex. 6

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/24/2013 8:19:03 PM
To: Wick, Anne [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A0dcff72a9834e52b0b701664635ca83-Awick]
CC: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Anne,

This is the document they gave us with all of their revised FE label values for the vehicle models effected by the road load issues for the 2013 model year. The document was dated October 30, 2012.

Also, Byron is quickly reviewing the letter as well, so I should be able to get you our final comments shortly.

Linc

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: Anne Wick/DC/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/24/2013 02:59 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

what is the document "***Fuel Economy Values of Hyundai-Kia's 2013 Model Year Vehicles***" so that I can cite it properly. Was this a presentation given to OTAQ (what date)? Or was it a 208 response (what date?)

Anne Wick, Mechanical Engineer
Vehicle and Engine Team Leader
202-564-2063
Enforcement Confidential: Attorney Work Product

Help eliminate environmental violations - report tips and complaints at:
http://www.epa.gov/compliance/complaints/index.html

From: Joel Ball/AA/USEPA/US
To: Anne Wick/DC/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 01/24/2013 02:24 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Hi Anne,

I added this question to your document between questions 2 and 3.

[attachment "Hyundai Kia OECA 208 rev 011513_jdb.docx" deleted by Anne Wick/DC/USEPA/US]

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Joel Ball/AA/USEPA/US
To: Anne Wick/DC/USEPA/US@EPA
Date: 01/16/2013 01:29 PM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
------ Forwarded by Joel Ball/AA/USEPA/US on 01/16/2013 01:28 PM ------

From: Joel Ball/AA/USEPA/US
To: Linc Wehrly/AA/USEPA/US@EPA
Date: 12/14/2012 03:18 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Here is the email I drafted to send to Bob,

Deliberative Process / Ex. 5

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Linc Wehrly/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA

Date: 12/03/2012 09:14 AM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov
----- Forwarded by Linc Wehrly/AA/USEPA/US on 12/03/2012 09:14 AM -----

From: Sherry Waite/AA/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 11/26/2012 03:29 PM
Subject: Scan: Hyundai Response to Request 10-11-12

[attachment "Hyundai Response to Request 10-11-12.pdf" deleted by Joel Ball/AA/USEPA/US]

Sherry Waite
U.S. Environmental Protection Agency, OTAQ
Compliance Division, Ann Arbor
734-214-4560

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 11/7/2013 4:59:17 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Alexis.Schayowitz@icfi.com
Subject: FW: 2013 Hyundai Elantra Fuel Economy Complaint

Flag: Follow up

Joel,

Please give this person a call when you get a chance.

Thanks

From: Schayowitz, Alexis [mailto:Alexis.Schayowitz@icfi.com]
Sent: Tuesday, November 05, 2013 9:28 AM
To: Good, David
Cc: Jamis, Alex
Subject: 2013 Hyundai Elantra Fuel Economy Complaint

Hi Dave,

We received a fuel economy complaint from PII / Ex. 6 (see contact information below) regarding his 2013 Hyundai Elantra. The estimated combined fuel economy for the vehicle is 30 mpg, but Mr. Cole has been getting 19-21 mpg combined. He had the dealership test drive the vehicle to gauge its mileage and they recorded 28 mpg on the highway, when the highway rating is 37 mpg. The dealership is not interested in assisting him further and Hyundai corporate continues to refer him to the dealership for all issues. We have provided Mr. Cole with information about the fuel economy test procedures, reminded him that the fuel economy ratings are just estimates, and directed him to some of the tips to improve his efficiency. However, he is still interested in speaking with someone at EPA to pursue this issue further. I'm hoping you or your staff can give him a call:

PII / Ex. 6

Please let me know if you have any questions or need further information.

Thanks!
Alexis

ALEXIS SCHAYOWITZ | Senior Associate | 617.250.4281 (o) | alexis.schayowitz@icfi.com
ICF INTERNATIONAL | 100 Cambridgepark Drive, Cambridge, MA 02140 | icfi.com

Message

From: Mazaitis, Vincent [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=3852485D8AC641D8AD91035A5DE7C82B-MAZAITIS, VINCENT]
Sent: 6/25/2013 12:20:17 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: IUVP Failures
Attachments: IUVP Failures.xls

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 7/1/2013 1:59:49 PM
To: ComplianceInfo [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=271d6184018b47dd8e4af6fa2e07749a-ComplianceInfo]; Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: RE: Case# 5187573 (#2714-337774308-2311)

Sent this on the Bob Babcock at Hyundai.

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
Office of Transportation and Air Quality
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: Holly Pugliese [mailto:Pugliese.Holly@epamail.epa.gov] **On Behalf Of** ComplianceInfo@epa.gov
Sent: Monday, July 01, 2013 9:38 AM
To: Ball, Joel; Wehrly, Linc
Subject: Fw: Case# 5187573 (#2714-337774308-2311)

FYI - not sure if there is anything we can do but I thought I would pass this along.
----- Forwarded by Holly Pugliese/AA/USEPA/US on 07/01/2013 09:37 AM -----

From: PII / Ex. 6
To: ComplianceInfo@EPA
Cc: Hyundai Customer Connect Center <ConsumerAffairs@hmausa.com>
Date: 06/27/2013 07:33 PM
Subject: Fwd: Re: Case# 5187573 (#2714-337774308-2311)

Please see emails that follow. Hyundai stalling on paying mileage reimbursement. I can be reached at PII / Ex. 6 PII / Ex. 6 Thanks!

---------- Forwarded message ----------
From: PII / Ex. 6
Date: Thu, Jun 27, 2013 at 5:23 PM
Subject: Re: Re: Case# 5187573 (#2714-337774308-2311)
To: Hyundai Customer Connect Center <ConsumerAffairs@hmausa.com>

What is the status of this issue? Why do you continue to keep giving me the dealerships phone number? I've tried going through them. Surely they must respond to you all.

On Fri, Apr 26, 2013 at 12:05 PM, Hyundai Customer Connect Center <ConsumerAffairs@hmausa.com> wrote:

Dear PII / Ex. 6

Thank you for your response. We apologize for the long delay in processing the Retail Delivery Report (RDR) correction.

We have been waiting for two specific documents that are necessary to process your request. They are the Title and Odometer Statement. We have been waiting to receive them from the Hyundai of El Paso dealership. We attempted to reach Art Delgado at the dealership to find out why we have not yet received these documents. He was not available and a message was left for him to contact us.

If you would like to contact the dealership about this, you can reach them at (915) 881-0300.

As soon as we receive these two documents we can move forward with processing the correction. That process can take up to thirty days. After that process is complete, we can move on to the MPG reimbursement, which can take an additional 4-6 weeks once everything is entered into the system.

We apologize for any inconvenience involved in these situations. Your RDR case number remains 5187573 if we can be of further assistance.

Thank you for contacting Hyundai Motor America.

-----Original Message-----
From: PII / Ex. 6
Sent: Apr 25, 2013 2:20:06 PM
Subject: Re: Case# 5187573 (#2714-337774308-2311)

Where are we with this? Another MONTH has gone by and still no MPG Reimbursement (CASE # 5187544) and no correction on YOUR records regarding the name on this account. The car is registered in my name, the Purchase Order from Hyundai of El Paso is in my name, the car is financed under my name, the car is insuranced in my name. I've sent you copies of everyone of these documents showing me as the owner of the car yet you all cannot make the change in your system to my name. I don't understand!

On Tue, Mar 26, 2013 at 11:26 AM, Hyundai Customer Connect Center <ConsumerAffairs@hmausa.com> wrote:

> Dear PII / Ex. 6
>
> Thank you for your reply.
>
> We appologize for the delay. We are still awaiting the necacary documents
> to update our records.
>
> Once we have received paperwork, we will contact you and inform you that

> we are again submitting your case to have the name corrected so our records
> will reflect you as the original/sole owner of your 2012 Accent. We thank
> you for your patience.
>
> Your case number remains 5187573. Please reference if we can be of any
> further assistance.
>
> Thank you for contacting Hyundai Motor America.
>
>
>
> ****
>
> -----Original Message-----
> From: PII / Ex. 6
> Sent: Mar 25, 2013 2:53:55 PM
> Subject: Re: Case Number 5187573 (#2714-337774308-2311)
>
> Where are we with case number 5187573. It seems to me you are having
> about the same success we had with tryin to get paperwork from Hyundai of
> El Paso. Meanwhile a benefit that is owed to us is gaining interest in
> your bank instead of ours. I believe we are well past 30 days.....
>
>
> On Thu, Jan 17, 2013 at 7:34 PM, Hyundai Customer Connect Center <
> ConsumerAffairs@hmausa.com> wrote:
>
> > Dear PII / Ex. 6
> >
> > Thank you for your response to our previous correspondence.
> >
> > Our case manager Kenneth was able to get a hold of Art at Hyundai of El
> > Paso on January 15, 2013, after leaving three (3) messages. Art informed
> us
> > that he would be faxing over a copy of the additional documentation
> > required to correct the name on your 2012 Accent. We are still waiting
> for
> > receipt of the fax from Art.
> >
> > We originally submitted your case to the correct personnel back on
> January
> > 08, 2013; with the documents you supplied us. We were informed that for
> the
> > name change to be completed, we would also need a copy of the odometer
> > statement and copy of certificate of title.
> >
> > As it is the dealership that originally input and register customer's
> > names when a vehicle is purchased, they should have to supply us with
> > paperwork.
> >
> > As it is our customer's who in the long run are the victims of these
> > mistakes and have the bigger interest vested in making sure that names,

> > dates, prices, etc. are correct. This is the primary reason we request
> > necessary documentation from our customers. Sometimes dealerships are
> > terminated or sold outright and we are not able to request paperwork at
> > all.
> >
> > Once we have received paperwork from Art, we will contact you and inform
> > you that we are again submitting your case to have the name corrected so
> > our records will reflect you as the original/sole owner of your 2012
> > Accent. We thank you for your patience.
> >
> > We have documented your comments, and your case number remains 5187573.
> > Please reference if we can be of any further assistance.
> >
> > Thank you for contacting Hyundai Motor America.
> >
> >
> >
> > ****
> >
> > -----Original Message-----
> > From: PII / Ex. 6
> > Sent: Jan 15, 2013 5:29:50 PM
> > Subject: Re: Re: Original Owner Correction (case# 5187573)
> > (#2714-337774308-2311)
> >
> > Dear Hyundai Motor America,
> >
> > I have been trying between you all and the dealership for over a year to
> > try and get this issue resolved.
> >
> > I first notified the dealership about this issue about a month after we
> > purchased the Accent that this problem existed. It took them about 2-3
> > months
> > to get back to me (actually I had to call them again about this) at
> which
> > time
> > they referred me to you.
> >
> > At that time I did call Hyundai Motor America
> > and explained to them the issue and they said they would take care of
> it.
> > I realized this problem existed because the customer care package with
> > the 800 numbers on it that comes with the plastic id thingy that goes on
> > the car keys came under my mothers name.
> >
> > After this call I thought everything had been taken care of until we
> > received the MPG letter (months later) which again was addressed to
> Angela
> > PII / Ex. 6 my mom). Now just to clarify this again, my mom did
> purchase
> > a used 2009 Accent in August 2010 which is the exact same color as the
> > 2012

> > Accent I bought in 2011 from the same dealership here in El Paso.
> >
> > Upon receiving the MPG letter I again contacted the dealership (this
> time
> > I
> > spoke to the sales guy) and went over this whole story with him about
> the
> > confusion in name and he said he would run it by the finance guys and
> > would
> > call me back. Well I never heard back from him so I called the number on
> > the MPG letter and here we are.
> >
> > You telling me that there is no guarantee or timeframe as to when the
> > dealership
> > will be able to provide you with these documents speaks volumes about
> the
> > level
> > of customer service you are and have been extending to me (and now I'm
> > thinking possibly others).
> >
> > As per your request, I have already provided you my State Drivers
> License,
> > State Registration, and the Hyundai of El Paso Purchase Order which
> > clearly
> > has my name and my PII / Ex. 6 address on them all. You saying
> that
> > you usually make your customers have to take time out of their days to
> do
> > something that should only take you a phone call to take care of also
> > clearly shows what a disconnect you and your dealerships have between
> one
> > another.
> >
> > It is also incredible that YOU KNOW / YOU ARE AWARE that this is a
> > frustrating process for your customers and yet it seems its just par for
> > the course with you all. Thank you for responding to me, but come on,
> YOU
> > CAN DO BETTER THAN THIS!
> >
> >
> > PII / Ex. 6
> >
> >
> > On Tue, Jan 15, 2013 at 8:18 AM, Hyundai Customer Connect Center <
> > ConsumerAffairs@hmausa.com> wrote:
> >
> > > Dear PII / Ex. 6
> > >
> > > We appreciate your response and the opportunity to address your
> > comments.
> > >
> > > We will attempt to gather the needed documents from Hyundai of El

> Paso.
> > > There is no guarantee or timeframe as to when they will be able to
> > provide
> > > us with these documents. We usually request these documents from our
> > > customers to expedite the process. Our customers usually have quicker
> > > access and response time.
> > >
> > > We understand that this process is frustrating and we apologize for
> > this.
> > >
> > > Your case number remains 5187573 and can be referenced for further
> > > assistance.
> > >
> > > Thank you for contacting Hyundai Motor America.
> > >
> > >
> > >
> > > ****
> > >
> > > -----Original Message-----
> > > From: PII / Ex. 6
> > > Sent: Jan 13, 2013 10:24:52 PM
> > > Subject: Re: Original Owner Correction (case# 5187573)
> > > (#2714-337774308-2311)
> > >
> > > Why can't you obtain this info from El Paso Hyundai yourselves. This
> > > problem is mine obviously but the error is yours. I have been trying
> to
> > > get
> > > this cleared up for over a year now. I believe you should and can
> obtain
> > > the certificate of title and the odometer statement from the
> dealership
> > > directly. Thanks!
> > >
> > > On Friday, January 11, 2013, Hyundai Customer Connect Center wrote:
> > >
> > > > Dear PII / Ex. 6
> > > >
> > > > We are contacting you with an update to your case regarding the
> > original
> > > > owner correction for your 2012 Accent.
> > > >
> > > > We require additional information to process the ownership change.
> > > Please
> > > > respond to this email with a copy of the Certificate of Title and an
> > > > Odometer Statement. We apologize that this information was not
> > requested
> > > > during your initial contact. Please scan and e-mail to us or you may
> > fax
> > > or
> > > > mail these documents to the following:

> > > >
> > > > Email: ConsumerAffairs@hmausa.com **> 'ConsumerAffairs@hmausa.com');>
>
> > > > Fax number: (602) 588-2599
> > > > Mailing address: Hyundai Motor America (HMA)
> > > > PO Box 83835
> > > > Phoenix, AZ 85071
> > > >
> > > > When received, we will forwarded these with your request to the
> > > > appropriate personnel to correct the original owner for your 2012
> > > Accent.
> > > > We appreciate your patience as the review process may take up to 30
> > > days.
> > > >
> > > > We have documented your comments. Your case number 5187573 can be
> > > > referenced if we can provide further assistance.
> > > >
> > > > Thank you for contacting Hyundai Motor America.
> > > >
> > > > ****
> > > >
> > >
> > >
> > > --
> > > PII / Ex. 6
> > >
> > > "GOD, COUNTRY, FAMILY"
> > >
> > >
> > >
> > > *
> > >
> > >
> >
> >
> > --
> > PII / Ex. 6
> >
> > "GOD, COUNTRY, FAMILY"
> >
> >
> >
> > *
> >
> >
>
>
> --
> PII / Ex. 6
>
> "GOD, COUNTRY, FAMILY"
>

>
>
> *
>
>

--

PII / Ex. 6

"GOD, COUNTRY, FAMILY"

*

--

PII / Ex. 6

"GOD, COUNTRY, FAMILY"

--

PII / Ex. 6

"GOD, COUNTRY, FAMILY"

Message

From: Fearnside, Judy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E2FC5D815467447BAC7D1DFB6B2E7595-FEARNSIDE, JUDY]
Sent: 7/12/2013 1:39:44 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]
Subject: Hyundai Call on Compliance Line

Flag: Follow up

Good morning,

Ms. PII / Ex. 6 called about her new Hyundai Elantra. She states its MPG is very low, at least 30% off from what it's supposed to be. She says she's getting the run-around from Hyundai, and she would like a call from us. Her number is PII / Ex. 6 (Washington State Attorney General gave her our number).

Thank you and good luck!

Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative
Agreement with SSA, Inc.
Compliance Division
(734) 214-4002

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 2/12/2013 8:08:19 PM
To: PII / Ex. 6
CC: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Re: David Good update of Hyundai Sonata regarding idling MPG, etc.

PII / Ex. 6

The fine print of every 2013 label reads "The average new vehicle gets 23 MPG and costs $11,600 to fuel over 5 years." That is the average of all cars and light trucks for 2013 model year vehicles. That statement is not meant for you to disregard the mpg values printed in large print on your label. [Every 2013 vehicle gets the fine print statement, from Prius models to Silverado pickup trucks.]

Dave

From: PII / Ex. 6

To: David Good/AA/USEPA/US@EPA
Date: 02/12/2013 04:11 AM
Subject: David Good update of Hyundai Sonata regarding idling MPG, etc.

David,

I discovered the sticker on the 2013 Hyundai Sonata proves the low mileage issue about mpg on the Sonata GLS. The sticker in **extremely large bold print says Hwy is 35 mpg, mixed is 28, city is 24**. In fine print below those advertised sticker ratings it says,"The **average new vehicle gets 23 MPG**...". How did the EPA miss this as a red flag? **I would not have bought the car** if I could have seen the **MPG inconsistency** through the **side window, glare and tiny print near the bottom of the same sticker**. Since the industry has a poor refund policy after the purchase, this is deceitful marketing and is worthy of review.

The transmission stalls the power with inconsistent power discharge **felt more obviously at 20 miles per hour** and **while idling eats up far more gas than should be expected**. It feels like it moves between 1st and 3nd gear at low speeds. It pulls back, then gives power boosting intermittently not due to driver acceleration or deceleration.

PII / Ex. 6

In a message dated 12/9/2012 8:02:42 P.M. Eastern Standard Time, Good.David@epamail.epa.gov writes:

I am out of the office until 12/10/2012.

Note: This is an automated response to your message **"mpg Test for "Idling" in Park & in Drive"** sent on **12/09/2012 07:02:37 PM.**

This is the only notification you will receive while this person is away.=

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/29/2013 7:53:16 PM
To: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07a9723e93c43d9843e466f7fac0638-Nevers, Chris]
Subject: Fw: HMG RLC CO2 Correction Plan
Attachments: EPA Letter Explaining RLC CO2 Mod Methodology - Signed.pdf; HMG RLC CO2 Modification Methodology Final.pdf

I haven't had time to review their approach yet, but would like for you to review it and give me your thoughts. The timing of this is very fortuitous, since I was planning on scheduling a meeting for this week to discuss how we should deal with this issue. Let me know your availability for reviewing the material. It would be great if we could discuss this later this week.

Thanks,
Linc

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

----- Forwarded by Linc Wehrly/AA/USEPA/US on 01/29/2013 02:49 PM -----

From: Byron Bunker/AA/USEPA/US
To: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/29/2013 12:59 PM
Subject: Fw: HMG RLC CO2 Correction Plan

----- Forwarded by Byron Bunker/AA/USEPA/US on 01/29/2013 12:59 PM -----

From: "Babcock, Robert" <rbabcock@hatci.com>
To: Byron Bunker/AA/USEPA/US@EPA
Date: 01/29/2013 10:56 AM
Subject: HMG RLC CO2 Correction Plan

Byron,

Please find attached the HMG plan to modify the road load values and CO2 levels for compliance testing. The letter and the presentation detail the mechanism and process. We feel this will result in an accurate and effective way to address the changes. We have had Sierra Research review the process and they agree that it is appropriate. If necessary, I can likely get a document from them supporting that position.

HMG will be committed to the new values and test results. Please review the proposal and feel free to provide any comments. I will be looking forward to your input and opinion.

Best regards,
Bob

Robert Babcock
Director, Certification and Compliance Affairs
Hyundai-Kia America Technical Center, Inc.
Office Phone: (734) 337-2341
Cell Phone: (734) 255-3466

HATCI is an authorized representative of both Hyundai Motor Company and Kia Motors Corporation; which are separate and distinct automotive manufacturers.

This e-mail (including any attachments) is confidential and may be legally privileged. If you are not an intended recipient or an authorized representative of an intended recipient you are prohibited from using, copying or distributing the information in this email or its attachments. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of this message and any attachments.

EPA Letter Explaining RLC ...

HMG RLC CO2 Modification Met...

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/29/2013 7:53:16 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Chris Nevers [Nevers.Chris@epa.gov]
Subject: Fw: HMG RLC CO2 Correction Plan
Attachments: EPA Letter Explaining RLC CO2 Mod Methodology - Signed.pdf; HMG RLC CO2 Modification Methodology Final.pdf

I haven't had time to review their approach yet, but would like for you to review it and give me your thoughts. The timing of this is very fortuitous, since I was planning on scheduling a meeting for this week to discuss how we should deal with this issue. Let me know your availability for reviewing the material. It would be great if we could discuss this later this week.

Thanks,
Linc

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov
----- Forwarded by Linc Wehrly/AA/USEPA/US on 01/29/2013 02:49 PM -----

From: Byron Bunker/AA/USEPA/US

To: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/29/2013 12:59 PM
Subject: Fw: HMG RLC CO2 Correction Plan

----- Forwarded by Byron Bunker/AA/USEPA/US on 01/29/2013 12:59 PM -----

From: "Babcock, Robert" <rbabcock@hatci.com>

To: Byron Bunker/AA/USEPA/US@EPA
Date: 01/29/2013 10:56 AM
Subject: HMG RLC CO2 Correction Plan

Byron,

Please find attached the HMG plan to modify the road load values and CO2 levels for compliance testing. The letter and the presentation detail the mechanism and process. We feel this will result in an accurate and effective way to address the changes. We have had Sierra Research review the process and they agree that it is appropriate. If necessary, I can likely get a document from them supporting that position.

HMG will be committed to the new values and test results. Please review the proposal and feel free to provide any comments. I will be looking forward to your input and opinion.

Best regards,
Bob

Robert Babcock
Director, Certification and Compliance Affairs
Hyundai-Kia America Technical Center, Inc.
Office Phone: (734) 337-2341
Cell Phone: (734) 255-3466

HATCI is an authorized representative of both Hyundai Motor Company and Kia Motors Corporation; which are separate and distinct automotive manufacturers.

This e-mail (including any attachments) is confidential and may be legally privileged. If you are not an intended recipient or an authorized representative of an intended recipient you are prohibited from using, copying or distributing the information in this email or its attachments. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of this message and any attachments.

EPA Letter Explaining RLC ...

HMG RLC CO2 Modification Met...

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/24/2013 8:19:03 PM
To: Anne Wick [Wick.AnneLNDU@usepa.onmicrosoft.com]
CC: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Anne,

This is the document they gave us with all of their revised FE label values for the vehicle models effected by the road load issues for the 2013 model year. The document was dated October 30, 2012.

Also, Byron is quickly reviewing the letter as well, so I should be able to get you our final comments shortly.

Linc

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: Anne Wick/DC/USEPA/US

To: Joel Ball/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/24/2013 02:59 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

what is the document "***Fuel Economy Values of Hyundai-Kia's 2013 Model Year Vehicles***" so that I can cite it properly. Was this a presentation given to OTAQ (what date)? Or was it a 208 response (what date?)

Anne Wick, Mechanical Engineer
Vehicle and Engine Team Leader
202-564-2063
Enforcement Confidential: Attorney Work Product

Help eliminate environmental violations - report tips and complaints at:
http://www.epa.gov/compliance/complaints/index.html

From: Joel Ball/AA/USEPA/US

To: Anne Wick/DC/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 01/24/2013 02:24 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Hi Anne,

I added this question to your document between questions 2 and 3.

[attachment "Hyundai Kia OECA 208 rev 011513_jdb.docx" deleted by Anne Wick/DC/USEPA/US]

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Joel Ball/AA/USEPA/US
To: Anne Wick/DC/USEPA/US@EPA
Date: 01/16/2013 01:29 PM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
------ Forwarded by Joel Ball/AA/USEPA/US on 01/16/2013 01:28 PM ------

From: Joel Ball/AA/USEPA/US
To: Linc Wehrly/AA/USEPA/US@EPA
Date: 12/14/2012 03:18 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Here is the email I drafted to send to Bob,

Deliberative Process / Ex. 5

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Linc Wehrly/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA
Date: 12/03/2012 09:14 AM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov
----- Forwarded by Linc Wehrly/AA/USEPA/US on 12/03/2012 09:14 AM -----

From: Sherry Waite/AA/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 11/26/2012 03:29 PM
Subject: Scan: Hyundai Response to Request 10-11-12

[attachment "Hyundai Response to Request 10-11-12.pdf" deleted by Joel Ball/AA/USEPA/US]

Sherry Waite
U.S. Environmental Protection Agency, OTAQ
Compliance Division, Ann Arbor
734-214-4560

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 1/16/2013 9:00:53 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
CC: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
Subject: Hyundai/Kia 2006 RLHP issue - where they used a 2-term RLHP settings (a,c coefs) for single roll dynos, instead of 3-term (a,b,c) coefficients
Attachments: 2001-2011 Hyundai-Kia Single Roll Dyno-2-term eqn issue.113.xlsx

Linc,

I dug thru my files and looked at the RLHP data in the test car list on the EPA website. Here's a summary of the issue (for the record)----if you need it. We met with Bob Babcock on 3/24/2006. They still used a few carryover 2-term RLHPs thru the 2010 model year.

As I remember it, Debbie Zielesch, GM asked me why Hyundai was still using a 2-term RLHP settings in early 2006 (when all other manufacturers were using a 3-term equation). I then asked Hyundai/Kia rep about it (but my memory is not real clear on how we found out about it). It's possible that Hyundai/Kia folks discovered it on their own.

I looked for email messages from Bob Babcock around 2006 and couldn't find anything in writing. I have one document Bob gave us at the 4/7/2006 meeting on the subject.

Dave

2001-2011 Hyundai-Kia Sing...

Hyundai/Kia RLHP Issue - Used 2-term equation instead of the 3-term equation

Model Year

2011
2010
2009
2008
2007
2006
2005
2004
2003
2002

2001
2000

Note: Hyundai/Kia used the 2-term equation (a, c coefficients only) for some 2001-2010 single roll dynamometer tests, as shown above.

Date
4/7/2006

Action

D.Good & Ted Trimble met with Bob Babcock, of Hyundai/Kia. Bob explained Hyundai/Kia's mistake.
Bob presented data indicating that the RLHP w/2-term equation was worst case (compared to the RLHP w/3-term equation).
Bob indicated that the emissions & fuel economy would be slightly worst case when tested with a 2-term RLHP coefficients.
After checking w/Dan Harrison, D.Good told Bob Babcock that they don't have to retest any previously tested IUVP vehicles,
and that Hyundai & Kia should use a 3-term equation for all new IUVP tests and new test groups as soon as possible,
(e.g. after 4/14/2006).

Summary of Hyundai/Kia RLHP Data in EPA's Test car list file

(The test car list includes all Certification & FE Label Data available at http://www.epa.gov/otaq/tcldata.htm)

Approximate Percent of 3-term RLHP Target Coefficients (a,b,c coefficients)

Hyundai	Kia	Other manufacturers
100%	100%	100%
97%	100%	100%
93%	85%	100%
60%	41%	100%
29%	37%	100%
0%	0%	100%
0%	0%	100%
0%	0%	100%
0%	0%	86%
0%	0%	56%
	0%	
0%	(50% 2-term,	
(50% 2-term, 50% blank)	50% blank)	22%
0%	0%	0%

SFTP Phase-In

quires Cert & FE tests on Single Roll Dyr

	Tier 1 Program	
NLEV	**Cars & LLDTs**	**HLDTs**
100%		100%
85%		80%
50%	100%	40%
25%	80%	
	40%	

D.Good 1/16/2013

Message

From: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6A0A212FAB8644B89798966A2FFF3AB8-GOOD, DAVID]
Sent: 1/15/2013 2:58:43 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]
CC: Pugliese, Holly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=31e59863cb0b4b48ae197c4c44f064b0-Pugliese, Holly]
Subject: Fw: Mileage Claim Case# 5175974 (#2714-332072512-8250) - 2012 Santa Fe is not covered by Hyundai' relabeling program

Joel or Holly,

How are we answering these type of questions?

Joel, if possible, please respond to the customer and cc me.

Thanks
----- Forwarded by David Good/AA/USEPA/US on 01/15/2013 09:55 AM -----

From: PII / Ex. 6

To: David Good/AA/USEPA/US@EPA
Date: 01/12/2013 03:11 PM
Subject: Fw: Re: Mileage Claim Case# 5175974 (#2714-332072512-8250)

David,

The email below from Hyundai says EPA agrees with them that the 2012 Santa Fe mileage is correct. Is that true?

PII / Ex. 6

----- Original Message -----
From: "OS" <DoNotReply@HyundaiMPGInfo.com>
To: PII / Ex. 6
Sent: Thursday, January 10, 2013 3:35 PM
Subject: RE: Re: Mileage Claim Case# 5175974 (#2714-332072512-8250)

> Dear PII / Ex. 6
> >
> We are sorry to hear of your dissatisfaction with the fuel economy on your
> 2012 Santa Fe. However, we must advise you that the 2012 Santa Fe does
> not qualify for the program. After the procedural errors in our testing
> were discovered, all of our 2011 - 2013 vehicles underwent a series of
> re-testing to determine if their fuel economy ratings were affected by the
> errors.
>

> The 2012 Santa Fe was found not to be affected by the fuel ratings
> adjustment, and upon doing their own independent testing the Environmental
> Protection Agency (EPA) agreed that the 2012 Santa Fe's fuel economy
> ratings did not require any correction. Therefore, the vehicle will not
> be eligible for reimbursement. This is the final determination of Hyundai
> Motor America. We apologize for any disappointment this may cause.
>
> Please visit our website at https://www.hyundaimpginfo.com for further
> information on Hyundai's fuel economy ratings adjustment and for a full
> list of eligible vehicles. For additional information on fuel economy and
> tips on how to maximize your fuel mileage, please visit
> http://www.fueleconomy.gov.
>>
> We have documented your comments and updated your case. Case number
> 5175974 can be referenced if we can provide any further assistance. We
> appreciate your business and thank you for being a valued Hyundai
> customer.
>
> Thank you again for contacting the Hyundai MPG Call Center.
>
> -----

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 11/15/2013 6:26:02 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Sohacki, Lynn [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ef46b8bb626b4d839372e708c5e1c0e9-Sohacki, Lynn]
Subject: Notes from observing Hyundai Coastdown audit testing
Attachments: coastdown audit check list from Hyundai audit.docx

Here are my notes from observing Hyundai Coastdown audit testing. Let me know if you have any questions

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

1. Vehicle aging/Break in:
    a. How was the vehicle aged? Aged to 4000 miles on public roads as part of the established durability fleet.
    b. What driving schedule was used? Mix of city and highway. More detail can be requested from HATCI regarding routes used.
    c. Were the tires aged on the vehicle or separately? Tires were aged with the vehicle
2. Pre-test inspection:
    a. What checks were made prior to testing? Overall safety check, alignment was checked before and after mileage accumulation.
    b. Were any adjustments made to the vehicle?
        i. Alignment was adjusted if needed before or after mileage accumulation.
        ii. Brakes
        iii. Ride height measured but not adjusted.
        iv. Other
3. Test set up
    a. What equipment is used? Optical speed sensor, RM young anemometer mounted on 2m boom, GPS (race tech).
    b. How is the vehicle weighed and ballasted? Ballasted to ETW + 15 lbs
        i. Is drive axle weight measured or adjusted? Measured but not adjusted. Ballast was distributed left to right and front to back as to not over load any one tire.
        ii. Is ride height measured or adjusted after ballasting? No
    c. How is tire pressure measured?
        i. Has the vehicle soaked for 4 hours prior to setting tire pressure? Yes
        ii. Were tires over inflated during soak time? No

iii. Was tire pressure compensated for ambient temp difference from soak temp? Vehicles had been soaked indoors and they have not been correcting for ambient temp difference from the soak temp. I pointed out that the procedure calls for such a correction and they adjusted the tire pressure on the vehicles being tested tat day.

4. Vehicle warm up
5. How is the vehicle warm up performed? The vehicles were warmed up driving on the straightaway. First a few practice coastdown runs were performed to determine speed splits. Then 45 minutes of constant speed driving at nearly 80 KPH (slowing at the turn around) followed by 10 runs in alternating directions at precisely 80 KPH used for anemometer calibration.
    a. How long? 60 to 75 minutes total.
    b. At what speed? See description above
    c. Constant speed or driving a cycle? See description above
6. Coastdown test procedure:
    a. How is the anemometer calibration for blockage performed? 10 runs in alternating directions at 80 KPH are collected, the SAE standards software is used
    b. Is the anemometer zero measurement taken? Yes
    c. What is the maximum speed the vehicle is accelerated to? 125 KPH
    d. Are the brakes applied between runs? No
    e. Is the vehicle given any extra warm up time between runs? No
    f. How many runs are performed? 20 complete runs (each run is split into 3 parts)
    g. Are the runs alternating runs performed over the same part of the track or opposite sides? The same lane is used in both directions

7. Post vehicle weight:
    a. Is the post vehicle weight recorded? yes
    b. Is there any compensation for the fuel used? 15 lbs extra weight is added at the beginning of the test.
8. How is the analysis performed?
    a. What analysis software is used? SAE software
    b. Has a correlation been performed to any other software? No
    c. How are outliers identified and removed? A visual check of the data is performed to identify any obvious anomalies. Then the SAE software filters out outliers 3 std dev from the average.
    d. What corrections are applied and how are they calculated?
        i. Temp yes using SAE software
        ii. Baro yes using SAE software
        iii. Wind yes using SAE software
        iv. Boom and anemometer effects No

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 2/12/2013 6:51:18 PM
To: Pugliese, Holly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=31e59863cb0b4b48ae197c4c44f064b0-Pugliese, Holly]
Subject: RE: Compliance Line Call

I made a small change in red text below , please go ahead and send it form the compliance box

Thanks

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Holly Pugliese/AA/USEPA/US

To: Joel Ball/AA/USEPA/US
Date: 02/12/2013 01:10 PM
Subject: RE: Compliance Line Call

How's this? I wrote it as if it is being sent from the compliance box, but you can send it too if you want. Let me kno

PII / Ex. 6 Thank you for following up with EPA regarding the fuel economy relabeling program initiated by Hyundai/Kia. As Mr. Ball indicated to you, EPA has received a significant number of inquiries regarding our investigation, but because this investigation is ongoing, we are not able to address specific details at this time. EPA has also received many questions about what EPA can do to address allegations of false advertising, class action lawsuits, vehicle buy backs or other consumer actions against Hyundai or Kia. Legal actions such as these by private citizens are beyond the purview of EPA. You may wish to contact the Better Business Bureau or other consumer advocacy organizations for guidance on these matters.

I hope this addresses your questions,

From: Joel Ball [mailto:Ball.Joel@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 11:10 AM
To: Pugliese, Holly
Subject: Fw: Compliance Line Call

His name is PII / Ex. 6 email is PII / Ex. 6 I told him that we cannot comment on the ongoing investigation at this time. He requested am email stating that.

Joel Ball

Light-Duty Vehicle Group

Compliance Division

United States Environmental Protection Agency

(734) 214-4238

ball.joel@epa.gov

----- Forwarded by Joel Ball/AA/USEPA/US on 02/12/2013 11:07 AM -----

From: Judy Fearnside/AA/USEPA/US

To: Joel Ball/AA/USEPA/US@EPA, Joel Dalton/AA/USEPA/US@EPA

Date: 02/12/2013 10:00 AM

Subject: Compliance Line Call

Good morning,

Yesterday a man called twice about his Kia. He was yelling on the phone and was very upset both times. During the first call he said, "I spoke with Dale Appley (misspelled last name), who promised to send me info 3 weeks ago. My Kia is a total joke! I want to get rid of it. Please can you help me?" He did not say which Kia he owns and did not state a MY. The second call came in at the end of the day, he wanted to know why we did not get back with him. His phone number is PII / Ex. 6

I am not sure you are even responded to Hyundai/Kia owners at this time, but I thought I'd forward this one to you, since he's so upset.

Thank you,
Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative Agreement
under the SEE Progam for SSA, Inc.
Compliance Division
734- 214-4002

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 2/7/2013 7:27:05 PM
To: PII / Ex. 6
Subject: Re: Fw: 2012 Kia Rio - Determination of Combined mileage rating
Attachments: DIB0001; DIB0002

Hello Mr. PII / Ex. 6

Thank you for your inquiry regarding the calculation of the combined fuel economy for the 2012 Kia Rio. I think you have mixed the Automatic and manual transmission fuel economy numbers. The table below summarizes the difference:

	1.6L Auto			1.6L Manual		
	Ctiy	Combined	Highway	Ctiy	Combined	Highway
Original	30	33	40	30	34	40
Revised	28	31	36	29	32	37

The combined number is not a simple average of the city and highway numbers. The combined number is calculated by a 55% city and 45% highway weighted harmonic average. Using the following formula:

$$\frac{1}{\frac{.55}{City\ FE} + \frac{.45}{Highway\ FE}} \qquad \frac{1}{\frac{.55}{City\ FE} + \frac{.45}{Highway\ FE}}$$

The values used in this formula are entered with 4 decimal points. Of corse the values shown on the label are rounded to whole numbers so sometimes the combined number does not appear to be correct given the formula above if you calculate it base on the whole numbers shown on the label. In the case of the original Rio auto trans label, the city FE rounded up from 29.6183 to 30 and the highway rounded up from 39.6674 to 40 but the combined rounded down from 33.4261 to 33. In this case the rounding makes the city and highway changes appear larger and the combined change appear smaller.

Please also keep in mind that the corrections to the fuel economy labels that Kia made and the reimbursements to customers that Kia is offering are voluntary actions that Kia is taking based their data and engineering analysis.

I hope you find this information helpful

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
ball.joel@epa.gov

From: David Good/AA/USEPA/US

To: Joel Ball/AA/USEPA/US@EPA

Cc: PII / Ex. 6
Date: 02/06/2013 02:48 PM
Subject: Fw: 2012 Kia Rio - Determination of Combined mileage rating

Joel,

Please respond to this Kia customer, when you get a chance.

Thanks
----- Forwarded by David Good/AA/USEPA/US on 02/06/2013 02:46 PM -----

From: PII / Ex. 6

To: David Good/AA/USEPA/US@EPA
Date: 02/05/2013 11:12 AM
Subject: Determination of Combined mileage rating

My KIA RIO 2012 was part of the EPA action that lowered the EPA MPG ratings from 30/34/40 to 28/32/36. How is the combined rating determined? Highway mpg went down 4 and City went down 2 but combined only went down by 2mpg. If it was an average then it would have changed the combined to 31. Since KIA is reimbursing me based on the new combined figure, I would like to know the answer. Thanks.
PII / Ex. 6

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 1/25/2013 3:14:27 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: Final Final Revised Revision
Attachments: DIB0001; DIB0002; Hyundai Kia 2012MY FE Label Modiifications - Final Version 103012.pdf; Hyundai Kia 2013MY FE Label Modiifications - Final Version 103012.pdf

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
----- Forwarded by Joel Ball/AA/USEPA/US on 01/25/2013 10:14 AM -----

From: "Babcock, Robert" <rbabcock@hatci.com>

To: Joel Ball/AA/USEPA/US@EPA
Date: 10/30/2012 11:37 AM
Subject: Final Final Revised Revision

Joel,

I sure hope this are the finals.....

Best regards,
Bob

ROBERT BABCOCK

Hyundai-Kia America Technical Center, Inc.

Director
HATCI Certification and Compliance Affairs

6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-2341
Cell: (734) 255-3466
E-mail: rbabcock@hatci.com

HATCI is an authorized representative of both Hyundai Motor Company and Kia Motors Corporation; which are separate and distinct automotive manufacturers.

This e-mail (including any attachments) is confidential and may be legally privileged. If you are not an intended recipient or an authorized representative of an intended recipient you are prohibited from using, copying or distributing the information in this email or its attachments. If you have received this e-mail in error, please notify the sender immediately by return e-mail and delete all copies of this message and any attachments.

Hyundai Kia 2012MY FE Lab...

Hyundai Kia 2013MY FE Lab...

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 1/24/2013 7:24:57 PM
To: Anne Wick [Wick.AnneLNDU@usepa.onmicrosoft.com]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12
Attachments: Hyundai Kia OECA 208 rev 011513_jdb.docx

Hi Anne,

I added this question to your document between questions 2 and 3.

Hyundai Kia OECA 208 rev 011513_j...

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Joel Ball/AA/USEPA/US

To: Anne Wick/DC/USEPA/US@EPA
Date: 01/16/2013 01:29 PM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
------ Forwarded by Joel Ball/AA/USEPA/US on 01/16/2013 01:28 PM ------

From: Joel Ball/AA/USEPA/US

To: Linc Wehrly/AA/USEPA/US@EPA
Date: 12/14/2012 03:18 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Here is the email I drafted to send to Bob,

Deliberative Process / Ex. 5

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Linc Wehrly/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA
Date: 12/03/2012 09:14 AM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov
----- Forwarded by Linc Wehrly/AA/USEPA/US on 12/03/2012 09:14 AM -----

From: Sherry Waite/AA/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 11/26/2012 03:29 PM
Subject: Scan: Hyundai Response to Request 10-11-12

[attachment "Hyundai Response to Request 10-11-12.pdf" deleted by Joel Ball/AA/USEPA/US]

Sherry Waite
U.S. Environmental Protection Agency, OTAQ

Compliance Division, Ann Arbor
734-214-4560

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 11/15/2013 2:45:20 PM
To: Pugliese, Holly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=31e59863cb0b4b48ae197c4c44f064b0-Pugliese, Holly]
Subject: RE: Hyundai 2013 vs 2014 Sante Fe EPA estimatesr

Below is a response you can send from the complianceinfo mailbox:

Hello PII / Ex. 6

Thank you for your inquiry regarding the fuel economy estimates of your 2013 Hyundai Santa FE Sport. The revisions to the fuel economy labels and the reimbursements where both voluntary actions Hyundai took in response to issues raised by EPA.

Hyundai voluntarily lowed the fuel economy label values for many of their 2012 and 2013 model year vehicles based on issues found during EPA conducted audit testing of the road load of their vehicles. The road load is a measure of the force needed to overcome aerodynamic drag, tire rolling resistance, driveline friction etc. The amount of the fuel economy label revisions and the reimbursements were based on calculations Hyundai made to determine the fuel economy affect of the differences found in the road loads of their vehicles comparing the 2013 vehicles with the higher road load we measured to what was originally declared by Hyundai. These calculations did not include any differences from the 2013 to 2014 MY vehicles.

I hope this answers your question,

From: Holly Pugliese [mailto:Pugliese.Holly@epamail.epa.gov] **On Behalf Of** ComplianceInfo@epa.gov
Sent: Thursday, November 07, 2013 9:59 AM
To: Ball, Joel
Subject: Fw: Hyundai 2013 vs 2014 Sante Fe EPA estimatesr

This is a bit more of detailed question about the HK matter than I can answer. Can you help?
----- Forwarded by Holly Pugliese/AA/USEPA/US on 11/07/2013 09:58 AM -----

From: FuelEconomy <fueleconomy@ornl.gov>
To: ComplianceInfo@EPA
PII / Ex. 6
Date: 10/24/2013 01:59 PM
Subject: FW: Hyundai 2013 vs 2014 Sante Fe EPA estimatesr

Forwarded to EPA by fueleconomy.gov

From: PII / Ex. 6
To: fueleconomy@ornl.gov.org
Sent: Thursday, October 24, 2013 11:35:20 AM
Subject: Hyundai 2013 vs 2014 Sante Fe EPA estimatesr

Hi - I'm the owner of a 2013 Hyundai Sante Fe Sport, AWD with 2.0 engine. I purchased this car 4 days prior to the mpg revisions , as an fyi.

The revised numbers and current numbers on the EPA for my 2013 model are
19/24 city/highway. In checking the 2014 Sante Fe AWD 2.0 the city rating is now 18, and I noticed the model with a 2.4l engine also was reduced.

I get reimbursement from Hyundai as part of the agreement with the EPA over the original misstated mpg numbers. The basis for this is the old vs new numbers - but I'm not sure if it's done on the single overall number which did not change from 2013 to 2014 for my model.

but shouldn't Hyundai be required to revise the 2013 city number downward ? The engine and drive trains to my knowledge have not changed.
[attachment "ATT00001.txt" deleted by Holly Pugliese/AA/USEPA/US]

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 7/18/2013 5:29:27 PM
To: Nevers, Chris [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a07a9723e93c43d9843e466f7fac0638-Nevers, Chris]
Subject: RE: hyundai sonata hybrid dyno mode

I think so but I cannot swear to it, I asked Hyundai for any special procedures need for road load derivation but I haven't heard back yet

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Nevers, Chris
Sent: Thursday, July 18, 2013 12:49 PM
To: Ball, Joel
Subject: RE: hyundai sonata hybrid dyno mode

Does this apply to Coast downs too?

From: Ball, Joel
Sent: Thursday, July 18, 2013 11:55 AM
To: Nevers, Chris
Subject: hyundai sonata hybrid dyno mode

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 6/18/2013 12:39:21 PM
To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: FW: Hyundai Certification Vehicle # LM4N0AU13B2

Linc,

We tested the Hyundai Tucson EDV and got a highway FE result that was nearly 10% higher than Hyundai's. They agreed to stay with their original value but requested to use it for the litmus test as well. If they use ours they would need to use the modified 5 cycle (3 cycle) for this T.G. Do you have any concerns?

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: D'Ambrosi, Anthony [mailto:ADAmbrosi@hatci.com]
Sent: Friday, June 14, 2013 1:42 PM
To: Ball, Joel
Cc: Horton, John; Shin, Seungwon (Simon)
Subject: Hyundai Certification Vehicle # LM4N0AU13B2

Hi Joel,

Thanks again for the discussion yesterday – it was useful.

Regarding the "Subject," Hyundai does not request EPA to conduct a retest for the EPA HwFET (EPA >10 +%) - we will use our lower Highway fuel economy test result for FE labeling. Additionally, Hyundai requests EPA approval to also utilize use our lower highway FE test result for the Litmus determination of this test group. We believe our HwFET result to be more representative.

Please advise of any questions or concerns.

Thanks!

Best Regards,
Tony

HYUNDAI MOTOR GROUP

Tony D'Ambrosi
Hyundai-Kia America Technical Center, Inc.
Senior Manager
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-2231
Cell : (734) 890-6470
E-mail: *adambrosi@hatci.com*

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 2/12/2013 6:51:18 PM
To: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31e59863cb0b4b48ae197c4c44f064b0-Pugliese, Holly]
Subject: RE: Compliance Line Call

I made a small change in red text below , please go ahead and send it form the compliance box

Thanks

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Holly Pugliese/AA/USEPA/US
To: Joel Ball/AA/USEPA/US
Date: 02/12/2013 01:10 PM
Subject: RE: Compliance Line Call

How's this? I wrote it as if it is being sent from the compliance box, but you can send it too if you want. Let me kno

Citizen Name / Ex. 6 Thank you for following up with EPA regarding the fuel economy relabeling program initiated by Hyundai/Kia. As Mr. Ball indicated to you, EPA has received a significant number of inquiries regarding our investigation, but because this investigation is ongoing, we are not able to address specific details at this time. EPA has also received many questions about what EPA can do to address allegations of false advertising, class action lawsuits, vehicle buy backs or other consumer actions against Hyundai or Kia. Legal actions such as these by private citizens are beyond the purview of EPA. You may wish to contact the Better Business Bureau or other consumer advocacy organizations for guidance on these matters.

I hope this addresses your questions,

From: Joel Ball [mailto:Ball.Joel@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 11:10 AM
To: Pugliese, Holly
Subject: Fw: Compliance Line Call

His name is Citizen Name / Ex. 6 email is Citizen Name / Ex. 6 I told him that we cannot comment on the ongoing investigation at this time. He requested am email stating that.

Joel Ball

Light-Duty Vehicle Group

Compliance Division

United States Environmental Protection Agency

(734) 214-4238

ball.joel@epa.gov

----- Forwarded by Joel Ball/AA/USEPA/US on 02/12/2013 11:07 AM -----

From: Judy Fearnside/AA/USEPA/US

To: Joel Ball/AA/USEPA/US@EPA, Joel Dalton/AA/USEPA/US@EPA

Date: 02/12/2013 10:00 AM

Subject: Compliance Line Call

Good morning,

Yesterday a man called twice about his Kia. He was yelling on the phone and was very upset both times. During the first cal l he said, "I spoke with Dale Appley (misspelled last name), who promised to send me info 3 weeks ago. My Kia is a total joke! I want to get rid of it. Please can you help me?" He did not say which Kia he owns and did not state a MY. The second call came i n at the end of the day, he wanted to know why we did not get back with him. His phone number is Citizen Name / Ex. 6

I am not sure you are even responded to Hyundai/Kia owners at this time, but I thought I'd forward this one to you, since he' s so upset.

Thank you,
Judy Fearnside
Technical Support Specialist
Supporting the USEPA through a Cooperative Agreement
under the SEE Progam for SSA, Inc.
Compliance Division
734- 214-4002

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 4/5/2013 5:50:58 PM
To: Good, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6a0a212fab8644b89798966a2fff3ab8-Good, David]; ComplianceInfo [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=271d6184018b47dd8e4af6fa2e07749a-ComplianceInfo]
Subject: RE: [Fueleconomy] 2012 Kia Soul fuel economy

FYI

I spoke with Mr. Citizen Name / Ex. 6 yesterday.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Good, David
Sent: Wednesday, April 03, 2013 1:49 PM
To: ComplianceInfo; Ball, Joel
Subject: FW: FW: [Fueleconomy] 2012 Kia Soul fuel economy

Joel & Holly,

Here's the email which goes with the voicemail message I forwarded to Joel & the Hyundai/Kia hot line.

[I'm not sure whether this person is a press person or a concerned citizen.]

Dave

From: Citizen Name / Ex. 6
Sent: Wednesday, April 03, 2013 12:44 PM
To: Good, David
Subject: Fwd: FW: [Fueleconomy] 2012 Kia Soul fuel economy

Mr. Good:

I just left you a voicemail regarding some questions on the KIA fuel economy. This is a forward of my original message I sent to EPA back in January. Please let me know how I can get answers to these questions.

Thanks,

Citizen Name / Ex. 6

-------- Original Message --------
Subject:FW: [Fueleconomy] 2012 Kia Soul fuel economy

Date: Tue, 8 Jan 2013 15:53:19 -0500
From: FuelEconomy <fueleconomy@ornl.gov>
To: 'complianceinfo@epa.gov' <complianceinfo@epa.gov>
Citizen Name / Ex. 6

This email is being forwarded to EPA.

-----Original Message-----
From: Citizen Name / Ex. 6
Sent: Tuesday, January 08, 2013 2:44 PM
To: FuelEconomy
Subject: [Fueleconomy] 2012 Kia Soul fuel economy

Dear Sir or Madam:

I purchased a new KIA Soul in February of 2012. As the EPA discovered, KIA misrepresented the EPA estimates in the advertising of the vehicle as well as on the window sticker. I have some questions about the procedure(s) for establishing these fuel economy estimates and specifically what happened in the case of the KIA Soul.

1. What reason(s) were given by KIA / Hyundai to the EPA for the incorrect fuel mileages?
2. Why is the discrepancy of the KIA Soul much higher than the rest of the KIA / Hyundai models with incorrect estimates?
3. Has the EPA found any evidence that KIA knowingly misrepresented the fuel economy to increase sales?
4. What action is the EPA taking against KIA for the misrepresentation of the fuel economy?
5. As a consumer, how am I protected from manufacturers who misrepresent the fuel economy of vehicles?

I would greatly appreciate an answer to the above questions and any other relevant information you can provide.

Sincerely,

Citizen Name / Ex. 6

Fueleconomy mailing list
Fueleconomy@email.ornl.gov
https://email.ornl.gov/mailman/listinfo/fueleconomy
To unsubscribe, send a blank email to fueleconomy-unsubscribe@email.ornl.gov

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 1/24/2013 7:24:57 PM
To: Wick, Anne [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A0dcff72a9834e52b0b701664635ca83-Awick]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12
Attachments: Hyundai Kia OECA 208 rev 011513_jdb.docx

Hi Anne,

I added this question to your document between questions 2 and 3.

Hyundai Kia OECA 208 rev 011513_j...

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Joel Ball/AA/USEPA/US
To: Anne Wick/DC/USEPA/US@EPA
Date: 01/16/2013 01:29 PM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
----- Forwarded by Joel Ball/AA/USEPA/US on 01/16/2013 01:28 PM -----

From: Joel Ball/AA/USEPA/US
To: Linc Wehrly/AA/USEPA/US@EPA
Date: 12/14/2012 03:18 PM
Subject: Re: Fw: Scan: Hyundai Response to Request 10-11-12

Here is the email I drafted to send to Bob,

Hello Bob,

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Linc Wehrly/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA
Date: 12/03/2012 09:14 AM
Subject: Fw: Scan: Hyundai Response to Request 10-11-12

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov
----- Forwarded by Linc Wehrly/AA/USEPA/US on 12/03/2012 09:14 AM -----

From: Sherry Waite/AA/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 11/26/2012 03:29 PM
Subject: Scan: Hyundai Response to Request 10-11-12

[attachment "Hyundai Response to Request 10-11-12.pdf" deleted by Joel Ball/AA/USEPA/US]

Sherry Waite
U.S. Environmental Protection Agency, OTAQ
Compliance Division, Ann Arbor
734-214-4560

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 8/22/2013 3:50:22 PM
To: Nevers, Chris [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a07a9723e93c43d9843e466f7fac0638-Nevers, Chris]
Subject: FW: EPA/Hyundai-Kia Meeting Materials - July 10, 2013
Attachments: LMFC_EPA_Meeting_20130710.pdf; ★SoulEV Intro_QnA_final_130710 (EPA).pdf

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Ueno, Christine [mailto:CUeno@hatci.com]
Sent: Thursday, August 08, 2013 8:52 AM
To: Ball, Joel; Nevers, Chris
Cc: D'Ambrosi, Anthony
Subject: FW: EPA/Hyundai-Kia Meeting Materials - July 10, 2013

Joel –

After we meet on July 10, we had left with some open testing questions as outlined below. Our testing colleagues would like to try to get some responses as the certification timeframe is fairly short. Since you will be going on vacation next week, what would be the best approach for us to follow-up on these open questions (see below)?

Thank you so much for your help.

Christine Ueno
Hyundai-Kia America Technical Center, Inc.
Certification and Compliance
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198
Office : (734) 337-3191
Cell : (734) 507-1233
E-mail: cueno@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

From: Ueno, Christine
Sent: Tuesday, July 23, 2013 10:57 AM
To: Ball, Joel
Cc: D'Ambrosi, Anthony; Woojin; 신승원 책임연구원; Babcock, Robert
Subject: EPA/Hyundai-Kia Meeting Materials - July 10, 2013

Joel –

We would like to thank you again for meeting with Hyundai-Kia on July 10, 2013 to discuss our certification plans for the Tucson fuel cell and the Soul electric vehicles for the 2015 MY. The following is a list of information that EPA had agreed to provide to us in response to questions raised at the meeting.

- Confirm 1.02 kg H_2 is equivalent to 1 g of gasoline (FC)
- Confirm H_2 purity (FC)
- Provide measuring device diagram (EV/FC)
- EPA dyno model, power analyzer model and current sensor model (EV)
- Confirm lab target temperature and the tolerance (EV)
- Confirm 1000 minimum test miles for EVs (EV)
- Precision of scale (FC)
- Confirm test procedure and calculations for stabilized pressure and temperature method for hydrogen consumption (FC)

The meeting material is attached here for your reference and distribution within EPA as needed.

Any questions, please contact either myself at the number below or Tony D'Ambrosi at 734-337-2231.

Christine Ueno
Hyundai-Kia America Technical Center, Inc.
Certification and Compliance
HATCI Certification and Compliance
6800 Geddes Rd, Superior Twp., MI 48198

Office : (734) 337-3191
Cell : (734) 507-1233
E-mail: cueno@hatci.com

CUSTOMER CHALLENGE COLLABORATION PEOPLE GLOBALITY

Redacted

HYUNDAI

2007 ACCENT GS 3-DOOR

VIN: KMHCM36C67U010129
Engine #: G4ED6492829
Color: Ice Blue

Model: 14322
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA399

Redacted

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **28**

HIGHWAY MPG **37**

Fuel Economy Information

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 31 and 43 mpg on the highway

2007 ACCENT 1.6 LITER L4 ENGINE ELEC. FUEL INJECTION AUTO. 4-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost: $1,284.00

For comparison shopping all vehicles classified as *COMPACT* have been issued mileage ratings from 12 to 49 mpg city and 18 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 20272MORNI 21

PEEL BACK HERE

2007 Accent 3-Door offers segment leading safety, roominess, power, and warranty

Unsurpassed Standard Safety Technologies in its Class
- 6in Standard Airbags: Dual front, Front seat-mounted side-impact airbags & Roof mounted side curtain airbags
- Front seatbelt pre-tensioners

Class-Leading Interior Volume*
- Most interior volume (passenger and cargo) for a 3-Door in its class

Class-Leading Horsepower*

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

* - Comparisons based on 2007MY Entry Level 3-Door Competitors

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*Engine Cover	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Power Rack & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints For All Seating Positions	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Rear LATCH Child-Seat Attachment System	INCLUDED
*Rear Spoiler	INCLUDED
*Side Marker Lights	INCLUDED
*P175/70R-14 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Roof-Mounted Micro Antenna	INCLUDED
*Driver's Seat Folding Armrest	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Digital Clock	INCLUDED
*Remote Fuel Door Release	INCLUDED
*Bodycolor Grille	INCLUDED
*Rear Window Defroster	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Dome & Cargo Lights	INCLUDED

Manufacturer's Suggested Retail Price: $11,415.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Sporty Floor Mats	$85.00

Redacted

Redacted

Inland Freight & Handling $580.00

Total Manufacturer's Suggested Retail Price: $12,080.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 1.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

Redacted

ZZ076-07001 1/05

V0116MN5

HYUNDAI

2007 ACCENT GS 3-DOOR

VIN: KMHCM36CB7U034724
Engine #: G4ED6645562
Color: Platinum Silver
Model: 16323
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

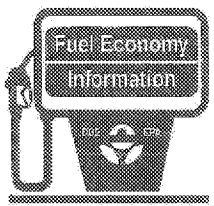
Shipped to:
CA399

Redacted

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at your dealer

CITY MPG **32**

HIGHWAY MPG **35**



Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 27 and 37 mpg in city and between 29 and 41 mpg on the highway

2007 ACCENT 1.6 LITER
L4 ENGINE ELEC. FUEL INJECTION
MANUAL 5-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost:
$1,204.00

For comparison shopping all vehicles classified as COMPACT have been issued mileage ratings from 12 to 49 mpg city and 18 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 02377MORNI 13

2007 Accent 3-Door offers segment leading safety, roominess, power, and warranty

Unsurpassed Standard Safety Technologies in its Class*America's Best Warranty

- Six Standard Airbags: Dual front, Front seat-mounted side-impact airbags & Roof mounted side curtain airbags
- Front seatbelt pre-tensioners

Class-Leading Interior Volume*

- Most interior volume (passenger and cargo) for a 3-Door in its class

Class-Leading Horsepower*

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

* - Comparisons based on 2007MY Entry Level 3-Door Competitors

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*Engine Cover	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Power Back & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints For All Seating Positions	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Rear LATCH Child-Seat Attachment System	INCLUDED
*Rear Spoiler	INCLUDED
*Side Marker Lights	INCLUDED
*P175/70R-14 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Roof-Mounted Micro Antenna	INCLUDED
*Driver's Seat Folding Armrest	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Digital Clock	INCLUDED
*Remote Fuel Door Release	INCLUDED
*Bodycolor Grille	INCLUDED
*Rear Window Defroster	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Dome & Cargo Lights	INCLUDED

Manufacturer's Suggested Retail Price: $10,415.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

*Premium Package 3-Door includes: Air Conditioning, Power Windows, Power Heated Mirrors, Power Door Locks, Remote Keyless Entry with Alarm & Panic, AM/FM/CD Audio System with 6 Speakers	$1,850.00

Redacted

1-31-07

Inland Freight & Handling	$580.00
Total Manufacturer's Suggested Retail Price:	$12,845.00

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 1.0 2.0

The SI of the average new vehicle is: 0.40

<<< Cleaner More Polluting >>>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

PEEL BACK HERE

ZZ870-07001 1/06

V01.6MW5

HYUNDAI

2007 ACCENT SE 3-DOOR

VIN: KMHCN36C67U026258
Engine #: G4ED6H387126
Color: Charcoal Gray
Model: 14342
Port of Entry: NJ
Mode of Transport: TRUCK

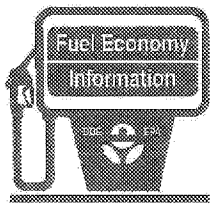
Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 937280850

Shipped to:
CA399

Redacted

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG
28



HIGHWAY MPG
37

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between 31 and 43 mpg on the highway

2007 ACCENT 1.6 LITER
L4 ENGINE ELEC. FUEL INJECTION
AUTO. 4-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as
COMPACT
have been issued mileage ratings from 12 to 49 mpg city and 18 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

631 T 33472MOPN: 22

PEEL BACK HERE

2007 Accent 3-Door offers segment leading safety, roominess, power, and warranty

Unsurpassed Standard Safety Technologies in its Class
- Six Standard Airbags: Dual front, Front seat-mounted side-impact airbags & Roof mounted side curtain airbags
- Front seatbelt pre-tensioners

Class-Leading Interior Volume*
- Most interior volume (passenger and cargo) for a 3-Door in its class

Class-Leading Horsepower*

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

* - Comparisons based on 2007MY Entry Level 3-Door Competitors

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Sport-Tuned Suspension	INCLUDED
*Power Rack & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*ABS	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*16" Alloy Wheels	INCLUDED
*P205/45VR-16 Tires	INCLUDED
*Bodycolor Rear Spoiler	INCLUDED
*Bodycolor Door Handles/Mirror	INCLUDED
*Fog Lights	INCLUDED
*Rear Wiper	INCLUDED
*Air Conditioning	INCLUDED
*Power Windows	INCLUDED
*Power Heated Mirrors	INCLUDED
*Power Door Locks	INCLUDED
*Remote Keyless Entry w/ Alarm	INCLUDED
*AM/FM/CD Audio System with 6 Speakers	INCLUDED
*Illuminated Vanity Mirrors	INCLUDED
*Leather-Wrapped Steering Whl	INCLUDED
*Metallic Interior Accents	INCLUDED
*Tachometer & Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED

Manufacturer's Suggested Retail Price: $15,015.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Sporty Floor Mats	$85.00

1-7-07

Inland Freight & Handling $580.00
Total Manufacturer's Suggested Retail Price: $15,680.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

1/9/07

ZZ070-07001 1/06

V01-6MW5

HYUNDAI

2007 ACCENT SE 3-DOOR

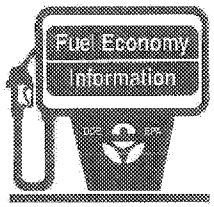
VIN: KMHCN36C37U033929
Engine #: G4ED6640907
Color: Ice Blue
Model: 14343
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA399

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **32**



HIGHWAY MPG **35**

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 27 and 37 mpg in city and between 29 and 41 mpg on the highway

2007 ACCENT 1.6 LITER L4 ENGINE ELEC. FUEL INJECTION MANUAL 5-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost: $1,204.00

For comparison shopping all vehicles classified as *COMPACT* have been issued mileage ratings from 12 to 49 mpg city and 18 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.

FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 02372MO2HI 7

PEEL BACK HERE

2007 Accent 3-Door offers segment leading safety, roominess, power, and warranty

Unsurpassed Standard Safety Technologies in its Class*

- Six Standard Airbags: Dual front, Front seat-mounted side-impact airbags & Roof mounted side curtain airbags
- Front seatbelt pre-tensioners

Class-Leading Interior Volume*

- Most interior volume (passenger and cargo) for a 3-Door in its class

Class-Leading Horsepower*

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

* - Comparisons based on 2007MY Entry Level 3-Door Competitors

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Sport-Tuned Suspension	INCLUDED
*Power Rack & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*ABS	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*16" Alloy Wheels	INCLUDED
*P205/45VR-16 Tires	INCLUDED
*Bodycolor Rear Spoiler	INCLUDED
*Bodycolor Door Handles/Mirror	INCLUDED
*Fog Lights	INCLUDED
*Rear Wiper	INCLUDED
*Air Conditioning	INCLUDED
*Power Windows	INCLUDED
*Power Heated Mirrors	INCLUDED
*Power Door Locks	INCLUDED
*Remote Keyless Entry w/ Alarm	INCLUDED
*AM/FM/CD Audio System with 6 Speakers	INCLUDED
*Illuminated Vanity Mirrors	INCLUDED
*Leather-Wrapped Steering Whl	INCLUDED
*Metallic Interior Accents	INCLUDED
*Tachometer & Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED

Manufacturer's Suggested Retail Price: $14,015.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Sporty Floor Mats	$85.00

1-31-07

Inland Freight & Handling	$580.00
Total Manufacturer's Suggested Retail Price:	**$14,680.00**

SMOG EMISSION INFORMATION

The SI of th's vehicle is: 0.39

0.0 — 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

EZ070-07001 1/05

NDL6MW5

HYUNDAI

2007 ACCENT GLS 4-DOOR

VIN: KMHCN46C37U120963
Engine #: G4ED5633184
Color: Platinum Silver

Model: 24432
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY, CA 927280850

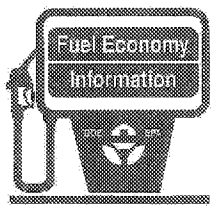
Shipped to:
CA399

Redacted

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG
28

HIGHWAY MPG
37



Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between 31 and 43 mpg on the highway

2007 ACCENT 1.6 LITER L4 ENGINE ELEC. FUEL INJECTION AUTO. 4-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as *COMPACT*
have been issued mileage ratings from 12 to 49 mpg city and 18 to 51 mpg highway

See www.fueleconomy.gov

PEEL BACK HERE

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 07377MORNI 14

2007 Accent 4-Door delivers safety, interior roominess, and America's Best Warranty

Advanced Safety Technologies
- U.S. Government's highest frontal crash rating - 5 stars
- Six standard airbags: Dual front/front side-impact/side-curtain
- Adjustable head restraints for all seating positions
- Front seatbelt pre-tensioners

More Total Interior Volume than Honda Civic
Named "Best Bet" in Jack Gillis' The Car Book 2006

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*4-Spd Automatic Transmission/	INCLUDED
*Power Rack & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Rear LATCH Attachment System	INCLUDED
*Child Safety Rear Door Locks	INCLUDED
*P185/65R-14 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Air Conditioning	INCLUDED
*Driver's Seat Folding Armrest	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer & Digital Clock	INCLUDED
*Remote Fuel Door Release	INCLUDED
*Remote Trunk Release	INCLUDED
*Illuminated Vanity Mirrors	INCLUDED
*Tinted Glass w/ Sunshade Band	INCLUDED
*Rear Window Defroster	INCLUDED
*AM/FM/CD Audio System with 6 Speakers	INCLUDED
*Bodycolor Bodyside Moldings	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front and Rear Cupholders	INCLUDED
*Rear Center Armrest	INCLUDED
*Seatback Pockets	INCLUDED
*Door Storage Pockets	INCLUDED

Manufacturer's Suggested Retail Price: $13,665.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Carpeted Floor Mats	$85.00
Inland Freight & Handling	$580.00

Total Manufacturer's Suggested Retail Price: $14,330.00

1-31-07

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

VOLUMNS

HYUNDAI

2007 ACCENT GLS 4-DOOR

VIN: KMHCN46C87U129602
Engine #: G4ED6639359
Color: Charcoal Gray

Model: 14493
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

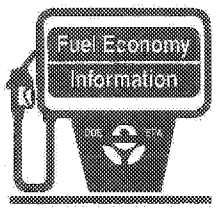
Shipped to:
CA399

Redacted

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **32**

HIGHWAY MPG **35**



Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *27* and *37* mpg in city and between *29* and *41* mpg on the highway

2007 ACCENT 1.6 LITER L4 ENGINE ELEC. FUEL INJECTION MANUAL 5-SPD. TRANS., CATALYST

Estimated Annual Fuel Cost:
$1,204.00

For comparison shopping all vehicles classified as *COMPACT* have been issued mileage ratings from *12* to *49* mpg city and *18* to *51* mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 98 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

021 T 07977MOPNI 16

2007 Accent 4-Door delivers safety, interior roominess, and America's Best Warranty

Advanced Safety Technologies

- U.S. Government's highest frontal crash rating - 5 stars
- Six standard airbags: Dual front/front side-impact/side-curtain
- Adjustable head restraints for all seating positions
- Front seatbelt pre-tensioners

More Total Interior Volume than Honda Civic Named "Best Bet" in Jack Gillis' The Car Book 2006

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

High Value Features:

*1.6L DOHC 16-Valve CVVT Eng	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Power Rack & Pinion Steering	INCLUDED
*Tilt Steering Wheel	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Adjustable Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Rear LATCH Attachment System	INCLUDED
*Child Safety Rear Door Locks	INCLUDED
*P185/65R-14 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Air Conditioning	INCLUDED
*Driver's Seat Folding Armrest	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer & Digital Clock	INCLUDED
*Remote Fuel Door Release	INCLUDED
*Remote Trunk Release	INCLUDED
*Illuminated Vanity Mirrors	INCLUDED
*Tinted Glass w/ Sunshade Band	INCLUDED
*Rear Window Defroster	INCLUDED
*AM/FM/CD Audio System with 6 Speakers	INCLUDED
*Bodycolor Bodyside Moldings	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front and Rear Cupholders	INCLUDED
*Rear Center Armrest	INCLUDED
*Seatback Pockets	INCLUDED
*Door Storage Pockets	INCLUDED

Manufacturer's Suggested Retail Price: $12,665.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

1-3-07

Inland Freight & Handling	$580.00
Total Manufacturer's Suggested Retail Price:	**$13,245.00**

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 1 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

1/31/07

PEEL BACK HERE

ZZ070-07001 1/08

V02.0 HW4

HYUNDAI

2007 ELANTRA GLS

VIN: KMHDU46D57U026034
Engine #: G4GC6710290
Color: Redfire Pearl
Model: 43402
Port of Entry: PT
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA398 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA398

01

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**

Fuel Economy Information

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER I4 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:

$1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 X 2617GSK4UG 7

FEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest With Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $14,395.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

B/R

9-27-06

Inland Freight & Handling $600.00

Total Manufacturer's Suggested Retail Price: $14,995.00

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 9.0

The SI of the average new vehicle is: 0.48

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

V02.0HWA

HYUNDAI

2007 ELANTRA GLS

VIN: KMHDU46D17U025866
Engine #: G4GC6708871
Color: Regatta Blue
Model: 43403
Port of Entry: PT
Mode of Transport: TRUCK

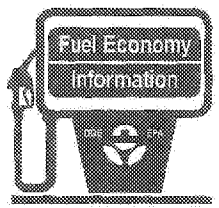
Sold To: HMA DISTRIBUTION TEST DEALER
CA39B 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280950

Shipped to:
CA39B

01

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG
28



HIGHWAY MPG
36

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between
30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
MANUAL 5-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as
MID-SIZE
have been issued mileage ratings
from 10 to 60 mpg city
and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 2617GSKAUG S

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest With Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $13,395.00

Optional Features:
*This vehicle is certified to meet emission requirements in all 50 states

9-27-06
BR

Inland Freight & Handling $600.00
Total Manufacturer's Suggested Retail Price: $13,995.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

2Z070-07001 1/06

V02.0 HWA

HYUNDAI

2007 ELANTRA GLS

VIN: KMHDU46DX7U0307BB
Engine #: G4GC6715020
Color: Carbon Gray
Model: 43404
Port of Entry: NJ
Mode of Transport: TRUCK

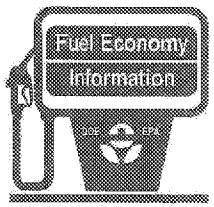
Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 92728-0850

Shipped to:
CA399

AA

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG
28



HIGHWAY MPG
36

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between
30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as
MID-SIZE
have been issued mileage ratings
from 10 to 60 mpg city
and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 X 2877XMORNU 1

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest With Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $14,395.00

Optional Features:
*California Super Ultra Low Emission Vehicle (SULEV)

Inland Freight & Handling $600.00
Total Manufacturer's Suggested Retail Price: $14,995.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.21
0.0 1 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

09-27-06

ZZ070-07001 1/05

V02.0HW4

HYUNDAI

2007 ELANTRA SE

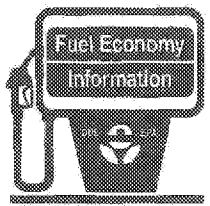
VIN:	KMHDU46DX7U024957	Model:	43422
Engine #:	G4GC6709141	Port of Entry:	PT
Color:	Black Pearl	Mode of Transport:	TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA398 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 92708850

Shipped to:
CA398

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at this dealer.

CITY MPG **28**



HIGHWAY MPG **36**

Actual MReage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *23* and *33* mpg in city and between *30* and *42* mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from *10* to *60* mpg city and *16* to *51* mpg highway

See www.fueleconomy.gov

PEEL BACK HERE

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 2617GSKAUG 5

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*Front & Rear Stabilizer Bars	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,695.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

Inland Freight & Handling $600.00
Total Manufacturer's Suggested Retail Price: $17,295.00

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 — 3.0

The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

22020-07001 1/05

V02.0HW4

HYUNDAI

2007 ELANTRA SE

VIN:	KMHDU46D57U024980	Model:	43423
Engine #:	G4GC6708669	Port of Entry:	PT
Color:	Redfire Pearl	Mode of Transport:	TRUCK

C1

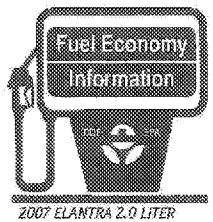
Sold To: HMA DISTRIBUTION TEST DEALER
CA398 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA398

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**



2007 ELANTRA 2.0 LITER I4 ENGINE ELEC. FUEL INJECT. MANUAL 5-SPD TRANS. CATALYST

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *23* and *33* mpg in city and between *30* and *42* mpg on the highway

Estimated Annual Fuel Cost:

$1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from *10* to *60* mpg city and *16* to *51* mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 2617GSKAUG 6

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*Front & Rear Stabilizer Bars	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $15,695.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

pre
9-27-06

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	**$16,295.00**

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 1 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

Z2070-07D01 1/06

V02.0HW4

HYUNDAI

2007 ELANTRA SE

VIN:	KMHDU46D27U027934	Model:	43424
Engine #:	G4GC6713141	Port of Entry:	HU
Color:	Purple Rain	Mode of Transport:	TRUCK

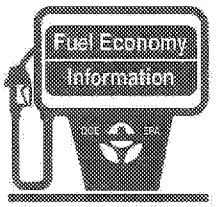
Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

AA

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**



HIGHWAY MPG **36**

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *23* and *33* mpg in city and between *30* and *42* mpg on the highway

2007 ELANTRA 2.0 LITER L4 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:

$1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from *10* to *60* mpg city and *16* to *51* mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

PEEL BACK HERE

2TD T 26571ASLAN 2

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*Front & Rear Stabilizer Bars	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,695.00

Optional Features:
*California Super Ultra Low Emission Vehicle (SULEV)

Inland Freight & Handling $600.00

Total Manufacturer's Suggested Retail Price: $17,295.00

B12
9-27-06

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.21

0.0 ↑ 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ076-07001 1/05

HMC_000000321
ED_002576_00000460-00006

V02.0HW4

HYUNDAI

2007 ELANTRA LIMITED

VIN:	KMHDU46D37U022600	Model:	43442
Engine #:	G4GC6705831	Port of Entry:	NI
Color:	Quicksilver	Mode of Transport:	TRUCK

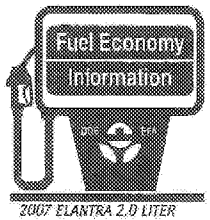
Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA399

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**



2007 ELANTRA 2.0 LITER L4 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *23* and *33* mpg in city and between *30* and *42* mpg on the highway

Estimated Annual Fuel Cost: $1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from *10* to *60* mpg city and *16* to *51* mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 29272MORNI 1

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $17,695.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states

*Carpeted Floor Mats	$85.00
Inland Freight & Handling	$600.00

Total Manufacturer's Suggested Retail Price: $18,380.00

BMZ 9-27-06

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

V02.0HW4

HYUNDAI

2007 ELANTRA LIMITED

VIN:	KMHDU46D87U027503	Model:	43443
Engine #:	G4GC6711223	Port of Entry:	BR
Color:	Redfire Pearl	Mode of Transport:	TRUCK

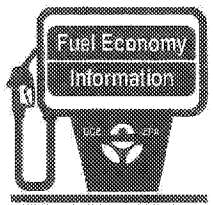
Sold To: HMA DISTRIBUTION TEST DEALER
CA395 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA395

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**



Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER L4 ENGINE ELEC. FUEL INJECT. MANUAL 5-SPD TRANS. CATALYST

Estimated Annual Fuel Cost: $1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 2757HH103 1

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,695.00

Optional Features:
*This vehicle is certified to meet emission requirements in all 50 states

9-27-06

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	$17,295.00

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 1 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ020-07001 1/06

V02.0HW4

HYUNDAI

2007 ELANTRA LIMITED

VIN: KMHDU46D07U024448
Engine #: G4GC6707736
Color: Black Pearl
Model: 43444
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA399

AA

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **28**

HIGHWAY MPG **36**

Fuel Economy Information

2007 ELANTRA 2.0 LTER
1.4 ENGINE ELEC. FUEL INJECT.
AUTO 4-SPD TRANS. CATALYST

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

Estimated Annual Fuel Cost: $1,284.00

For comparison shopping all vehicles classified as MID-SIZE have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

270 T 2827YRIGOL 3

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Most interior volume (passenger and cargo) for a sedan in its class*
***Based on 2006MY Autosource Inc. upper small car sedan segmentation.**

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/CD Audio System w/ Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $17,695.00

Optional Features:
*California Super Ultra Low Emission Vehicle (SULEV)

Inland Freight & Handling $600.00
Total Manufacturer's Suggested Retail Price: $18,295.00

9-27-07

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.21
0.0 — 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

27070-67001 1/05

V0Z-0HW4

HYUNDAI

2007 ELANTRA GLS

VIN: KMHDU46D67U218322
Engine #: G4GC7916099
Color: Quicksilver

Model: 44402
Port of Entry: PT
Mode of Transport: TRUCK

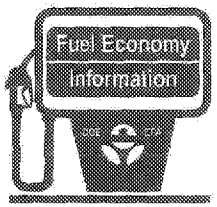
BR 5/2/07

Sold To: HMA DISTRIBUTION TEST DEALER
CA398 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA398

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **28**



HIGHWAY MPG **36**

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway.

2007 ELANTRA 2.0 LITER L4 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:

$1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PEEL BACK HERE

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*

*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest with Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $14,395.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Air Conditioning	$950.00
*Carpeted Floor Mats	$85.00

05/2/07

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	**$16,030.00**

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 — 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the more the vehicle pollutes.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

V020HW4

HYUNDAI

2007 ELANTRA GLS

VIN: KMHDU46D27U172598
Engine #: G4GC7871194
Color: Regatta Blue

Model: 44403
Port of Entry: BR
Mode of Transport: TRUCK

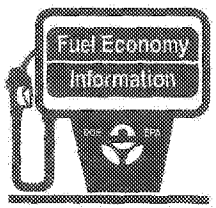
BR 6/7/07

Sold To: HMA DISTRIBUTION TEST DEALER
CA397 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA397

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at this dealer

CITY MPG
28



HIGHWAY MPG
36

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between
30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
MANUAL 5-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:

$1,284.00

For comparison shopping
all vehicles classified as
MID-SIZE
have been issued mileage ratings
from 10 to 60 mpg city
and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*

*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Variable Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest with Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $13,395.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Air Conditioning	$950.00
*Carpeted Floor Mats	$85.00
Inland Freight & Handling	$600.00

Total Manufacturer's Suggested Retail Price: $15,030.00

RS 06/04/07

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 — 1.0 — 3.0

The SI of the average new vehicle is: 0.48
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/06

VDZ-04PC

HYUNDAI

2007 ELANTRA GLS PZEV

BZ 6/4/07

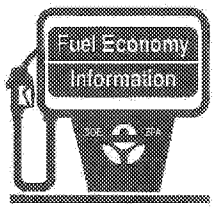
VIN: KMHDU46D97U147522
Engine #: G4GC7845633
Color: Regatta Blue
Model: 44404
Port of Entry: NJ
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA399

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG
28



HIGHWAY MPG
36

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER I4 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as *MID-SIZE* have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

156 T 06072XTANCP 1

PEEL BACK HERE

2007 Elantra PZEV has an air pollution score of 9.5 (highest ranking in EPA class)

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*Anti-Lock Brakes	INCLUDED
*4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*P195/65R-15 Tires	INCLUDED
*Full-Size Wheel Covers	INCLUDED
*Power Steering	INCLUDED
*Tilt Steering Column	INCLUDED
*Power Locks	INCLUDED
*Power Windows	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*Power Heated Mirrors	INCLUDED
*Varisble Intermittent Wipers	INCLUDED
*Tachometer	INCLUDED
*Tinted Glass	INCLUDED
*Digital Clock	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Front Cupholders	INCLUDED
*Rear Center Armrest with Cupholders	INCLUDED
*Center Console w/ Armrest	INCLUDED

Manufacturer's Suggested Retail Price: $14,395.00

Optional Features:

*California Super Ultra Low Emission Vehicle (SULEV)	
*Partial Zero Emission Vehicle (PZEV)	
*Air Conditioning	$950.00
*Carpeted Floor Mats	$85.00

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	**$16,030.00**

06/04/07

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.21
0.0 1 2.0
The SI of the average new vehicle is: 0.46
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

HMC_000000327
ED_002576_00000460-00012

V02.0HW4

HYUNDAI

2007 ELANTRA SE

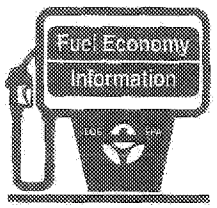
VIN:	KMHDU46D47U134824	Model:	44422
Engine #:	G4GC7834840	Port of Entry:	PT
Color:	Black Pearl	Mode of Transport:	TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer

CITY MPG **28**



HIGHWAY MPG **36**

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER L4 ENGINE ELEC. FUEL INJECT, AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as *MID-SIZE*
have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PEEL BACK HERE

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

101 T 03774MODER 1

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio
- Free Activation + 3 Mos. Svc., Not Available in AK & HI

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Heated Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,895.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Premium Package includes; Power Sunroof w/Tilt & Slide Heated Front Seats	$1,150.00
*Carpeted Floor Mats	$85.00
*Carpeted Cargo Mat	$80.00
Inland Freight & Handling	$600.00

Total Manufacturer's Suggested Retail Price: $18,810.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 — 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/06

V0Z0HW4

HYUNDAI

2007 ELANTRA SE

VIN: KMHDU46D47U113830
Engine #: G4GC6B11705
Color: Laguna Sand
Model: 44423
Port of Entry: PT
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

Complete this vehicle information in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**

Fuel Economy Information

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
MANUAL 5-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping all vehicles classified as MID-SIZE have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 01074H106 3

PEEL BACK HERE

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*

- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*

*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty

- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio

- Free Activation + 3 Mos. Svc.; Not Available in AK & HI

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Heated Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $15,895.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Premium Package includes; Power Sunroof w/Tilt & Slide Heated Front Seats	$1,150.00
*Carpeted Floor Mats	$85.00

Inland Freight & Handling $600.00

Total Manufacturer's Suggested Retail Price: $17,730.00

1-31-07

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

V02.04PC

HYUNDAI

2007 ELANTRA SE PZEV

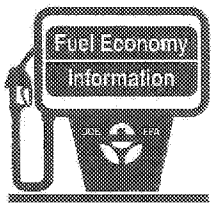
VIN:	KMHDU46D47U124178	Model:	44424
Engine #:	G4GC7823651	Port of Entry:	PT
Color:	Regatta Blue	Mode of Transport:	TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG
28



HIGHWAY MPG
36

Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping all vehicles classified as MID-SIZE have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

037 T 0977/ASIAN B

PEEL BACK HERE

2007 Elantra PZEV has an air pollution score of 9.5 (highest ranking in EPA class)

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio
- Free Activation + 3 Mos. Svc.; Not Available in AK & HI

High Value Features:	
*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Seatbelt Pretensioners	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Heated Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,895.00

Optional Features:	
*California Super Ultra Low Emission Vehicle (SULEV)	
*Partial Zero Emission Vehicle (PZEV)	
*Carpeted Floor Mats	$85.00

Inland Freight & Handling $600.00
Total Manufacturer's Suggested Retail Price: $17,580.00

1-31-07

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.21

0.0 — 3.0

The SI of the average new vehicle is: 0.49
<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07000 3/06

V02.0HW4

2007 ELANTRA LIMITED

VIN: KMHDU46DX7U128459
Engine #: G4GC7828312
Color: Purple Rain
Model: 44442
Port of Entry: PT
Mode of Transport: TRUCK

Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

CITY MPG
28

HIGHWAY MPG
36

Actual Mileage
will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between:
23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
L4 ENGINE ELEC. FUEL INJECT.
AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping
all vehicles classified as
MID-SIZE
have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

PART CONTENT INFORMATION
FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 0287CMORNI 9

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio
- Free Activation + 3 Mos. Svc.; Not Available in AK & HI

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independant Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $17,895.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Mudguards	$75.00

1-31-07

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	$18,570.00

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.39
0.0 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

V02-0HW4

HYUNDAI

2007 ELANTRA LIMITED

VIN:	KMHDU46D67U069233	Model:	44443
Engine #:	G4GC6764106	Port of Entry:	PT
Color:	Regatta Blue	Mode of Transport:	TRUCK

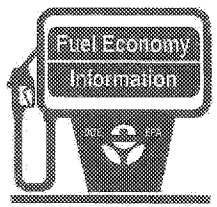
Sold To: HMA DISTRIBUTION TEST DEALER
CA396 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 927280850

Shipped to:
CA396

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG **28**

HIGHWAY MPG **36**



Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: 23 and 33 mpg in city and between 30 and 42 mpg on the highway

2007 ELANTRA 2.0 LITER
I4 ENGINE ELEC. FUEL INJECT.
MANUAL 5-SPD TRANS. CATALYST

Estimated Annual Fuel Cost:
$1,284.00

For comparison shopping all vehicles classified as MID-SIZE have been issued mileage ratings from 10 to 60 mpg city and 16 to 51 mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

031 T 3267CMORNL 13

2007 Elantra offers an unprecedented combination of safety, roominess and warranty.

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio
- Free Activation + 3 Mos. Svc.; Not Available in AK & HI

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*5-Speed Manual Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $16,895.00

Optional Features:

*This vehicle is certified to meet emission requirements in all 50 states	
*Carpeted Floor Mats	$85.00

1-31-07

Inland Freight & Handling	$600.00
Total Manufacturer's Suggested Retail Price:	$17,580.00

SMOG EMISSION INFORMATION

The SI of this vehicle is: 0.39

0.0 — 3.0

The SI of the average new vehicle is: 0.40

<< Cleaner More Polluting >>

Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

PEEL BACK HERE

ZZ070-07001 1/05

HMC_000000332
ED_002576_00000460-00017

V02-04PC

HYUNDAI

2007 ELANTRA LIMITED PZEV

VIN: KMHDU46D67U213105
Engine #: G4GC7910796
Color: Black Pearl

Model: 44444
Port of Entry: NJ
Mode of Transport: TRUCK

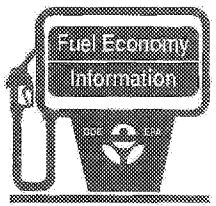
Sold To: HMA DISTRIBUTION TEST DEALER
CA399 10550 TALBERT AVENUE
FOUNTAIN VALLEY,CA 9272808850

Shipped to:
CA399

Compare the vehicle to others in the FREE FUEL ECONOMY GUIDE available at dealer

CITY MPG **28**

HIGHWAY MPG **36**



Actual Mileage will vary with options, driving conditions, driving habits and vehicle's condition. Results report to EPA indicate that the majority of these vehicles with these estimates will achieve between: *23* and *33* mpg in city and between *30* and *42* mpg on the highway

2007 ELANTRA 2.0 LITER 14 ENGINE ELEC. FUEL INJECT. AUTO 4-SPD TRANS. CATALYST

Estimated Annual Fuel Cost: $1,284.00

For comparison shopping all vehicles classified as *MID-SIZE* have been issued mileage ratings from *10* to *60* mpg city and *16* to *51* mpg highway

See www.fueleconomy.gov

PART CONTENT INFORMATION

FOR VEHICLE IN THIS CARLINE:
U.S. / Canadian Parts Contents: 1 %
Major Sources of Foreign Parts Contents: Korea 99 %
Note: Parts content does not include final assembly, distribution, or other non-parts cost.
FOR THIS VEHICLE:
Final Assembly Point: Ulsan, Korea
Country of Origin: Engine: Korea
Transmission Parts: Korea

213 T 1437YGOLDE 6

PEEL BACK HERE

2007 Elantra PZEV has an air pollution score of 9.5 (highest ranking in EPA class)

Unsurpassed Standard Safety Technologies in its class*
- Six standard airbags: Dual front/front side-impact/side-curtain
- Standard ABS with Electronic Brake Force Distribution (EBD)
- 4-wheel Disc Brakes
- Standard front seat active head restraints
- Adjustable head restraints for all seating positions

Most interior volume (passenger and cargo) in its class*
*Based on 2006MY Autosource Inc. upper small car sedan segmentation.

America's Best Warranty
- 5-year/60,000-mile New Vehicle Warranty*
- 10-year/100,000-mile Powertrain Warranty*
- 7-year/Unlimited-mile Anti-perforation Warranty*
- 5-year/Unlimited-mile Roadside Assistance

*Limited warranties, see dealer for details

Equipped with XM Satellite Radio
- Free Activation + 3 Mos. Svc.; Not Available in AK & HI

High Value Features:

*2.0L DOHC 16-Valve CVVT Eng.	INCLUDED
*4-Spd Automatic Transmission	INCLUDED
*Dual Front Airbags	INCLUDED
*Front Side Airbags	INCLUDED
*Side Curtain Airbags	INCLUDED
*ABS & 4-Wheel Disc Brakes	INCLUDED
*Front Active Head Restraints	INCLUDED
*Front Independent Suspension w/ MacPherson Struts	INCLUDED
*Rear Independent Multi Link Suspension	INCLUDED
*16" Alloy Wheels	INCLUDED
*Power Steering	INCLUDED
*Tilt & Telescopic Str Column	INCLUDED
*Air Conditioning	INCLUDED
*Power Locks/Windows/Mirrors	INCLUDED
*Remote Keyless Entry w/Alarm	INCLUDED
*AM/FM/XM/CD/MP3 Audio System w/Auxiliary Jack & 6 Speakers	INCLUDED
*Steering Wheel Audio Controls	INCLUDED
*Leather Seating Surfaces	INCLUDED
*Leather-Wrapped Str Wheel	INCLUDED
*Heated Front Seats	INCLUDED
*Trip Computer	INCLUDED
*Cruise Control	INCLUDED
*Fog Lights	INCLUDED
*Center Console w/ Armrest	INCLUDED
*60/40 Split-Folding Rear Seat	INCLUDED
*Rear Center Armrest	INCLUDED
*Windshield Shade Band	INCLUDED

Manufacturer's Suggested Retail Price: $17,895.00

Optional Features:

*California Super Ultra Low Emission Vehicle (SULEV)	
*Partial Zero Emission Vehicle (PZEV)	
*Sun & Sound Package includes; Power Sunroof w/Tilt & Slide AM/FM/XM/6-Disc CD Changer & MP3 Premium Audio System	$1,300.00
*Carpeted Floor Mats	$85.00
Inland Freight & Handling	$620.00

Total Manufacturer's Suggested Retail Price: $19,900.00

8/1/07

SMOG EMISSION INFORMATION
The SI of this vehicle is: 0.21
0.0 3.0
The SI of the average new vehicle is: 0.40
<< Cleaner More Polluting >>
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

Manufacturer's suggested retail price includes manufacturer's recommended pre-delivery service. Gasoline license and title fees, state and local taxes and dealer installed options and accessories are not included in the manufacturer's suggested retail price.

This label has been affixed to this vehicle by Hyundai Motor America, pursuant to the requirements of 15 U.S.C. 1231 et seq. which prohibits its removal or alteration prior to delivery to the ultimate purchaser.

ZZ070-07001 1/05

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 7/19/2013 6:44:19 PM
To: Good, David [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6a0a212fab8644b89798966a2fff3ab8-Good, David]; Company Citizen Name / Ex. 6
Subject: RE: 2013 Kia optima hybrid

Hello Ms. Citizen Name / Ex. 6

Thank you for your inquiry regarding the FE rating of the 2013 Kia Optima Hybrid. First let me point out that the official rating for the highway fuel economy of the 2013 Kia Optima Hybrid is 40 mpg not 45. The 2013 Optima Hybrid was not affected by the issue that led Kia to restate the fuel economy ratings on several of their 2012 and 2013 models. While EPA did not test the 2013 MY Kia Optima Hybrid, we did test the 2013 Hyundai Sonata Hybrid which is a sister vehicle to the optima. Our tests confirmed a highway fuel economy rating of 40 mpg on the configuration we tested.

I hope this information is helpful.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
ball.joel@epa.gov

-----Original Message-----
From: Good, David
Sent: Tuesday, July 09, 2013 9:07 AM
To: Company
Cc: Ball, Joel
Subject: RE: 2013 Kia optima hybrid

Citizen Name / Ex. 6

Thanks for your email message about the mileage of your 2013 Kia Optima hybrid. I'm forwarding your message to Joel Ball (who I work with, here at EPA). Joel handles Kia issues.

Feel free to send me a follow-up email or call me on 734-214-4450 if Joel doesn't get back to you in a day or so.

[Joel, please get back to her when you get a chance.]

Regards

-----Original Message-----
From: Company Citizen Name / Ex. 6
Sent: Tuesday, July 09, 2013 6:11 AM
To: Good, David
Subject: Kia optima hybrid

Dear Mr. Good,
I recently purchased a 2013 Kia optima hybrid which boasts a 45 mpg highway fuel efficiency. I have yet to near that 45 mpg. Has the 2013 optima hybrid been tested for mpg accuracy? I see the 2012 is listed on the kiampginfo.com website for its inaccuracy but not the 2013 model. In 2012 this vehicles hwy mpg was 40 and my 2013 is 45. Was the Kia Optima's mpg issue resolved and increased in one year or has it just not been tested? This 2013 model has yet to achieve its city or hwy. mpg.
Thank you for your time,
Citizen Name / Ex. 6

Sent from my iPhone

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 7/22/2013 6:15:16 PM
To: Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]
Subject: coastdown timeline
Attachments: Hyundai_ Kia coastdown timeline.xlsx

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

Date	Location
2/10/2012	Holloma AFB
2/10/2012	Holloma AFB
4/22/2012	NVFEL
5/10/2012	NVFEL
5/31/2012	NVFEL
7/19/2013	Wurtsmith/Oscoda AA
7/11/2012	Wurtsmith/Oscoda AA
7/12/2012	Wurtsmith/Oscoda AA
8/15/2012	Wurtsmith/Oscoda AA
9/19/2012	Wurtsmith/Oscoda AA
9/21/2012	NVFEL
10/11/2012	NVFEL

Event

Test of the 2012 Hyundai Elantra
Test of the 2012 Hyundai Sonata
Met With Hyundai/Kia to discuss results/concern with the Elantra
Met With Hyundai/Kia, They showed test results of Elantra testing performed in Korea and information regarding differe
Met With Hyundai/Kia To discuss plans for testing of production vehicles
EPA observed Hyundai test two elantra vehicle which were brought from Korea to perfrom a track correlation
Test of the 2012 Kia Soul
Test of the 2012 Hyundai Accent
Joint testing of 2013 Hyundai Elantra production vehicles provided by Hyundai
Test of the 2nd 2012 Kia Soul
Met With Hyundai to discuss results of their testing of the 5 production Elantra vehicles and findins on the on the errors c
Met With Hyundai/KIa They proposed to voluntarily adjust the fuel economy lables for certain 2012 and 2013 MY vehicle

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 2/1/2013 3:59:05 PM
To: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; Sohacki, Lynn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ef46b8bb626b4d839372e708c5e1c0e9-Sohacki, Lynn]
Subject: Fw: Road Load Audit Proposal
Attachments: Road_Load_Audit CPP Proposal - REV2 with comments.pdf

Here is Hyundai's production coastdown audit proposal, I added my comments

Road_Load_Audit CPP Proposal - ...

I'll schedule a meeting to discuss it

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov
----- Forwarded by Joel Ball/AA/USEPA/US on 02/01/2013 10:51 AM -----

From: "Barker, David" <dbarker@hatci.com>
To: Joel Ball/AA/USEPA/US@EPA
Cc: "Babcock, Robert" <rbabcock@hatci.com>
Date: 01/31/2013 02:21 PM
Subject: Road Load Audit Proposal

Hi Joel,
Here is the original proposal as presented. I think during the original discussion we reached some agreement with your concerns about the primary vehicle selections, using a "1 phase" program, etc.

Let me know if you have any questions.

DAVID BARKER
Hyundai-Kia America Technical Center, Inc.
Senior Certification Engineer
Certification & Compliance
6800 Geddes Rd, Superior Township, MI 48198

Office : (734) 337-2343
Fax : (734) 483-5919
E-mail: dbarker@hatci.com

[attachment "Road_Load_Audit CPP Proposal - REV2.pdf" deleted by Joel Ball/AA/USEPA/US]

Appointment

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 4/17/2013 7:45:48 PM
To: Davis, Julian [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6bdfbdf185cc43f39aedec9ad41fc4a4-Davis, Julian]

Subject: FW: AED-LDVC Check-In on Hyundai/Kia
Location: AED will call 734-214-4286 (unless we hear otherwise)

Start: 4/22/2013 3:00:00 PM
End: 4/22/2013 4:00:00 PM
Show Time As: Tentative

When: Monday, April 22, 2013 11:00 AM-12:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: AED will call 734-214-4286 (unless we hear otherwise)

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*~*~*

-----Original Appointment-----
From: Belser, Evan
Sent: Wednesday, April 17, 2013 1:53 PM
To: Belser, Evan; Wehrly, Linc; Wick, Anne; Ball, Joel
Subject: AED-LDVC Check-In on Hyundai/Kia
When: Monday, April 22, 2013 11:00 AM-12:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: AED will call 734-214-4286 (unless we hear otherwise)

Hello Linc and Joel,

Attorney Client / Ex. 5; Ex. 7(a); 7(e)

Please feel free to propose other agenda items or a different time for this meeting.

Thanks,

Evan

Evan M. Belser
US EPA, Air Enforcement Division
202-564-6850

Do not release. This is confidential attorney-client communication and privileged attorney work product created for law enforcement purposes.

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 2/7/2013 7:27:05 PM
To: Citizen Name / Ex. 6
Subject: Re: Fw: 2012 Kia Rio - Determination of Combined mileage rating

Hello Mr. Citizen Name / Ex. 6

Thank you for your inquiry regarding the calculation of the combined fuel economy for the 2012 Kia Rio. I think you have mixed the Automatic and manual transmission fuel economy numbers. The table below summarizes the difference:

	1.6L Auto			1.6L Manual		
	Ctiy	Combined	Highway	Ctiy	Combined	Highway
Original	30	33	40	30	34	40
Revised	28	31	36	29	32	37

The combined number is not a simple average of the city and highway numbers. The combined number is calculated by a 55% city and 45% highway weighted harmonic average. Using the following formula:

$$\frac{1}{\frac{.55}{City\,FE} + \frac{.45}{Highway\,FE}}$$

The values used in this formula are entered with 4 decimal points. Of corse the values shown on the label are rounded to whole numbers so sometimes the combined number does not appear to be correct given the formula a bove if you calculate it base on the whole numbers shown on the label. In the case of the original Rio auto trans label, the city FE rounded up from 29.6183 to 30 and the highway rounded up from 39.6674 to 40 but the combined rounded down from 33.4261 to 33. In this case the rounding makes the city and highway changes appear larger and the combined change appear smaller.

Please also keep in mind that the corrections to the fuel economy labels that Kia made and the reimbursements to customers that Kia is offering are voluntary actions that Kia is taking based their data and engineering analysis.

I hope you find this information helpful

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
ball.joel@epa.gov

From: David Good/AA/USEPA/US
To: Joel Ball/AA/USEPA/US@EPA
Cc: Citizen Name / Ex. 6
Date: 02/06/2013 02:48 PM
Subject: Fw: 2012 Kia Rio - Determination of Combined mileage rating

Joel,

Please respond to this Kia customer, when you get a chance.

Thanks

----- Forwarded by David Good/AA/USEPA/US on 02/06/2013 02:46 PM -----

From: Citizen Name / Ex. 6
To: David Good/AA/USEPA/US@EPA
Date: 02/05/2013 11:12 AM
Subject: Determination of Combined mileage rating

My KIA RIO 2012 was part of the EPA action that lowered the EPA MPG ratings from 30/34/40 to 28/32/36. How is the combined rating determined? Highway mpg went down 4 and City went down 2 but combined only went down by 2mpg. If it was an average then it would have changed the combined to 31. Since KIA is reimbursing me based on the new combined figure, I would like to know the answer. Thanks.

Citizen Name / Ex. 6

Message

From: Neam, Anthony [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=06685DC508A048C5B301F5D6B8B7D745-NEAM, ANTHONY]
Sent: 2/8/2013 7:05:29 PM
To: Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Hula, Aaron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; Ellies, Ben [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16c8cda908e443d78bbe094ca5501b70-Ellies, Ben]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Lee, Byungho [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D21c75a6dc80427aacff67da54b120f5-Lee, Byungho]; Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07a9723e93c43d9843e466f7fac0638-Nevers, Chris]; Ganss, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0a378477e2b342679ffb24bf6ab79a44-Ganss, David]; Nam, Ed [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Cherry, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=17c907940ac14cbab1236dfdfeca8300-Cherry, Jeff]; Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Wolcott, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=745dbf5972b744ab9501c9f916974844-Wolcott, Mark]; Olechiw, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9f564b92ff96459ab606eb66e5892e2d-Olechiw, Michael]; Peavyhouse, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1394f25fc907481389da07306bb3a027-Peavyhouse, Robert]; Moran, Robin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Sherwood, Todd [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F6a5d8decf654ce99b5de0923ccff361-Sherwood, Todd]
Subject: Re: DeliberativeMaterial - follow-up from Tuesday's discussion of recent CR article on turbo/downsizing vehicles
Attachments: CR analysis turbo vs non turbo Ver 1_0 .xlsx

All, There is a lot of confusion in the CR data. The links they on their website in the article are some times to vehicles (X3) that don't show they have test.
Or, are to vehicles (RAV4) that are different model years than those they call out in the chart of vehicles.

Attached is the first version of the CR data.
It has all the data I could get from Wards and CR data tables.
I will work to get more details on other tech not covered by their data sets.

Let me know if you have any questions,

Anthony

CR analysis turbo vs non turbo Ver ...

From: William Charmley/AA/USEPA/US
To: Lisa Snapp/AA/USEPA/US@EPA, Amy Bunker/AA/USEPA/US@EPA, David Ganss/AA/USEPA/US@EPA, Ben Ellies/AA/USEPA/US@EPA, Aaron Hula/AA/USEPA/US@EPA, Jeff Alson/AA/USEPA/US@EPA, Anthony Neam/AA/USEPA/US@EPA, Jeff Cherry/AA/USEPA/US@EPA, Ed Nam/AA/USEPA/US@EPA, Michael Olechiw/AA/USEPA/US@EPA, Robin Moran/AA/USEPA/US@EPA, Byungho Lee/AA/USEPA/US@EPA, Todd Sherwood/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Robert Peavyhouse/AA/USEPA/US@MSO365, Chris Nevers/AA/USEPA/US@EPA, Mark Wolcott/AA/USEPA/US@EPA
Cc: Byron Bunker/AA/USEPA/US@EPA
Date: 02/07/2013 02:34 PM
Subject: DeliberativeMaterial - follow-up from Tuesday's discussion of recent CR article on turbo/downsizing vehicles

Dear all –

Thanks to everyone for participating in the meeting on Tuesday regarding the recent Consumers Report article on downsize/turbocharged vehicles and fuel economy. I did not write down the names of everyone who participated in yesterday's meeting, so please forward this to anyone I have missed

I mentioned yesterday a draft desk statement that several of us worked on earlier in the day on Tuesday. A copy of that draft desk statement is attached. Note that this is what we sent up the chain for potential use by the EPA Press Office – I don't know if this has been modified, and please remember these are talking points in the event EPA's Press Office is contacted on this issue, these are not for all of us to be using if we are contacted. If we get an inquiry, we should send it up to Justin Cohen in the OTAQ immediate office.

I wanted to capture here the range of action items we discussed on Wednesday. The order is just the order we discussed them in, and does not imply any particular priority. I tried to capture who I thought volunteered to work on these various topics – if I got any of this wrong just say so.

For this week, I don't see a need for all of us to get together again. However, if people have an opportunity to send around a status update today or Friday, that would be helpful.

Thanks
Bill

[attachment "Draft CR Desk Statment, 2.5.2013, v3.docx" deleted by Anthony Neam/AA/USEPA/US]

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Consumer Report Turbo Comparison Data
Version 1.0

2/8/2013

No 2013 Engine data available
Using 2012 for 2013

Model	Engine	CR Vehicle Tested	Disp. (L)	Disp. (CC)	Code	Maker	Plant	2011 Engine Volume (1)	Blk./Head/ Cyl. Liner Mat.	Layout (vee°)	Bore x Stroke (mm)	Comp. Ratio	Performance Hp/ RPM	Torque Lb.-Ft. (Nm)/RPM		Fuel system/Valving/ Valve Actuation	2012 Models Installed	Cam Rod	Camshaft Type	Intake Manifold Material
Ford Fusion	**1.6L Turbo 4**	2013 SE sedan, 1.6-liter 4-cyl. turbo, 6-speed automatic	1.6	1596	NA	Ford	Taubate, Brazil	169,400	AL/AL/CIL	I-4	79x81.4	11.0:1	120/ 6350	112 (152)/ 5000		SFI/DOHC/4vpc/Ti-VCT/BT/E85	Fiesta	FPM/FS	1-pc. cast	
Hyundai Sonata	2.4L Four	2011 GLS sedan, 2.4-liter 4-cyl., 6-speed automatic	2.4	2359	Theta II GDi	Hyundai	Asan, S. Korea; Montgomery, AL	80,600	AL/AL/CIL	I-4	88x97	11.3:1	198-200/ 6300	184 (250)-186 (252)/ 4250		DI/DOHC/4vpc/VVT	Sonata	FS	assembled	composite
Kia Optima	2.4L Four	2011 LX sedan, 2.4-liter 4-cyl., 6-speed automatic	2.4	2359	Theta II GDi	Hyundai	Asan, S. Korea; Montgomery, AL	80,601	AL/AL/CIL	I-5	88x98	11.3:2	198-200/ 6301	185 (250)-186 (252)/ 4250		DI/DOHC/4vpc/VVT	Sonata	FS	assembled	composite
Toyota Camry**	2.4L Four	2012 LE sedan, 2.5-liter 4-cyl., 6-speed automatic	2.5	2494	2AR-FE	Toyota	Georgetown, KY; Japan	317,800	AL/AL/CIL	I-4	89.9x98	10.4:1	179-180/ 6000	173 (233)/ 4000-173 (228)/ 4100		DI/DOHC/4vpc/VVT-i	Camry, Rav4; Scion tC	FS	1-pc. cast	
Honda Accord	2.4L Four	2013 LX sedan, 2.4-liter 4-cyl., CVT	2.4	2354	K24A	Honda	Anna, OH	150,100	AL/AL/CIL	I-4	87x99	10.5:1	177/ 6500-192/ 7000	161 (218)/ 4300-162 (220)/ 4400		SFI/ETC/DOHC/4vpc/i-VTEC	Accord, Accord Crosstour	FS	1-pc. cast	CA
Nissan Altima	2.4L Four	2013 2.5 S sedan, 2.5-liter 4-cyl., CVT	2.5	2488	QR25DE	Nissan	Decherd, TN	301,000	AL/AL/CIL	I-4	89x100	9.6:1	152/ 5200-177/ 6000	171 (232)-180 (244)/ 4400		SFI/DOHC/4vpc/VVT	Altima, Frontier, Sentra SE-R	FS	1-pc. cast	composite
Ford Fusion	**2.0L Turbo 4**	2013 Titanium sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	2.0	1999	NA	Ford	Valencia, Spain	16,700	AL/AL/CIL	I-4	87.5x83.1	9.3:1	237-240/ 5500	250 (339)/ 1750-270 (366)/ 3000		DI/DOHC/4vpc/TRBO/Inj/Ti-VCT/BT	Edge, Explorer	FPM/FS	1-pc. cast	CA
Hyundai Sonata	**2.0L Turbo 4**	2011 Limited sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	2.0	1998	Theta II GDi	Hyundai	Asan, S. Korea; Montgomery, AL	85,800	CI/AL	I-4	86x86	9.5:1	274/ 6000	269 (365)/ 1800		SFI/DOHC/4vpc/TRBO/Inj/VVT	Sonata	FS	1-pc. cast	CA
Kia Optima	**2.0L Turbo 4**	2011 SX sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	2.0	1998	Theta II GDi	Hyundai	Asan, S. Korea; Montgomery, AL	85,801	CI/AL	I-5	86x87	9.5:2	274/ 6001	270 (365)/ 1800		SFI/DOHC/4vpc/TRBO/Inj/VVT	Sonata	FS	1-pc. cast	CA
Toyota Camry**	3.5L V6	2012 XLE sedan, 3.5-liter V6, 6-speed automatic	3.5	3456	2GR-FE	Toyota	Georgetown, KY; Buffalo, WV	395,400	AL/AL/CIL	V-6 (60°)	94x83.1	10.8:1	266-270/ 6200	245 (332)-248 (336)/ 4700		SFI/DOHC/4vpc/VVT-i/RRA	Avalon, Camry, Highlander, RAV4, Sienna, Venza; Lexus ES 350, RX	FPM/SC	1-pc. cast	CA
Honda Accord	3.5L V6	2013 EX-L sedan, 3.5-liter V6, 6-speed automatic	3.5	3471	J35A7	Honda	Anna, OH; Lincoln, AL	280,000	AL/AL/CIL	V-6 (60°)	89x93	10.5:1	248/ 5700-271/ 6200	250 (339)/ 4800-254 (344)/ 5000		SFI/ETC/SOHC/4vpc/i-VTEC/CD	Accord, Accord Crosstour, Odyssey, Pilot	FPM/FS	1-pc. cast	CA
Nissan Altima	3.5L V6	2013 3.5 SL sedan, 3.5-liter V6, CVT	3.5	3498	VQ35DE	Nissan	Iwaki, Japan, Decherd, TN	89,000	AL/AL/CIL	V-6 (60°)	95.5x81.4	10.3:1	260-270/ 6000	240 (325)-258 (350)/ 4400		SFI/DOHC/4vpc/VVT	Altima, Murano, Quest	FS	1-pc. cast	composite
Chevrolet Cruze	**1.4L Turbo 4**	2011 1LT sedan, 1.4-liter 4-cyl. turbo, 6-speed automatic	1.4	1364	LUJ/ LUV	GM	Flint, MI	148,000	CI/AL	I-4	72.5x82.6	9.5:1	138/ 4900	148 (200)/ 1850		SFI/ETC/DOHC/4vpc/VCT/TRBO	Chevrolet Cruze	FS	1-pc. cast	plastic
Chevrolet Cruze	1.8L Four	2011 LS sedan, 1.8-liter 4-cyl., 6-speed automatic	1.8	1796	LUW	GM	Toluca, Mexico	2,900	CI/AL	I-4	80.5x88.2	10.5:1	138/ 6800	125 (168)/ 3800		SFI/ETC/DOHC/4vpc/VCT	Chevrolet Cruze	FPM/FS	1-pc. cast	CA
Dodge Dart	**1.4L Turbo 4**	2013 Rallye sedan, 1.4-liter 4-cyl. turbo, 6-speed sequentia	1.4	1368	MultiAir	Chrysler	Dundee, MI	1,000	CI/AL	I-4	72x84	9.8:1	160/ 5500	170 (250)/ 2500-184 (250)/ 2550		SFI/DOHC/4vpc/VVT/TRBO/Inj/RR	Fiat 500 Abarth; Dodge Dart (13)	FS/FS	1-pc. cast	composite
Dodge Dart	2.0L Four	2013 SXT sedan, 2.0-liter 4-cyl., 6-speed automatic	2.0	1998	ECN	Chrysler	Dundee, MI	92,600	AL/AL/CIL	I-4	86x86	10.5:1	158-160/ 6400-160/	141 (191)/ 5000-145 (200)/ 4800		SFI/DOHC/4vpc/VVT	Dodge Caliber, Dart (13); Jeep Compass, Patriot	FPM/FS	1-pc. cast	composite

Ford Escape	**1.6L Turbo 4**	2013 SE 4-door SUV AWD, 1.6-liter 4-cyl. turbo, 6-speed automatic	1.6	1596	NA	Ford	Taubate, Brazil	169,400	AL/AL/CIL	I-4	79x81.4	11.0:1	120/ 6350	112 (152)/ 5000		SFI/DOHC/4vpc/Ti-VCT/BT/E85	Fiesta	FPM/FS	1-pc. cast	
Honda CR-V	2.4L Four	2012 EX 4-door SUV AWD, 2.4-liter 4-cyl., 5-speed automatic	2.4	2354	K24A	Honda	Anna, OH	205,000	AL/AL/CIL	I-4	87x99	10.0:1	185/ 7000	163 (221)/ 4400		SFI/ETC/DOHC/4vpc/i-VTEC	CR-V	FS	1-pc. cast	CA

Kia Sportage	2.4L Four	2011 LX 4-door SUV AWD, 2.4-liter 4-cyl., 6-speed automatic	2.4	2359	Theta II GDi	Hyundai	Asan, S. Korea	21,000	AL/AL/CIL	I-4	88x97	10.5:1	170-176/6000	163 (221)-168 (228)/ 4000		DI/DOHC/4vpc/VVT	Sportage		assembled	composite
Toyota RAV4	2.5L Four (2012)	2009 Base 4-door SUV AWD, 2.5-liter 4-cyl., 4-speed automatic	2.5	2494	2AR-FE	Toyota	Georgetown, KY, Japan	317,800	AL/AL/CIL	I-4	89.9x98	10.4:1	179-180/ 6000	173 (233)/ 4000-173 (226)/ 4100		DI/DOHC/4vpc/VVT-i	Camry, RAV4, Scion tC	FS	1-pc. cast	
Ford Escape	**2.0L Turbo 4**	2013 Titanium 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	2.0	1999	NA	Ford	Valencia, Spain	16,700	AL/AL/CIL	I-4	87.5x83.1	9.3:1	237-240/ 5500	250 (339)/ 1750-270 (366)/ 3000		DI/DOHC/4vpc/TRBO/Int/Ti-VCT/BT	Edge, Explorer	FPMFS	1-pc. cast	CA
Kia Sportage	**2.0L Turbo 4**	2012 SX 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	2.0	1998	Beta II T	Hyundai	Hwasung, S. Korea	3,900	CI/AL	I-4	86x86	9.5:1	274/ 6000	269 (302)/ 1750		DI/DOHC/4vpc/TRBO/ Int./VVT	Optima	FS	1-pc. cast	CA
Toyota RAV4	3.5L V6 (2012)	2006* Limited 4-door SUV AWD, 3.5-liter V6, 5-speed automatic	3.5	3456	2GR-FE	Toyota	Georgetown, KY, Buffalo, WV	395,400	AL/AL/CIL	V-6 (60°)	94x83.1	10.8:1	266-270/ 6200	245 (332)-248 (336)/ 4700		SFI/DOHC/4vpc/VVT-i/RRA	Avalon, Camry, Highlander, RAV4, Sienna, Venza; Lexus ES 350, RX	FPMSC	1-pc. cast	CA
BMW X3**	**2.0L Turbo 4**	2013 xDrive28i 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 8-speed automatic	2.0	1997	N20	BMW	Steyr, Austria	12,500	MAL/AL/CIL	I-6	84x90.1	10.0:1	240/ 5000	255 (346)/ 1250		DI/DOHC/4vpc/TRBO-TS/Int/VVT	528i, Z4	FSFS	assembled	composite
BMW X3***	3.0L Six		3.0	2996	N52	BMW	Steyr, Austria	76,300	MAL/AL/CIL	I-6	85x88	10.7:1	230/ 6500-255/ 6600	200 (271)-221 (300)/ 2750		SFI/DOHC/4vpc/VVT	128i, 328i Sw./Cp. (Cnv. X3	FSFS	assembled	composite
Ford F-150	**3.5 V6 Turbo**	2011 XLT crew cab 4WD, 3.5-liter V6 turbo, 6-speed automatic	3.5	3496	NA	Ford	Cleveland #1, OH	42,200	AL/AL/CIL	V-6 (60°)	92.5x86.7	10.0:1	365/5000	420 (569)/2500		DI/DOHC/4vpc/2TRBO/Ti/VCT/BT	F150	FPMFS	3 cast / 1 AS	composite
Ford F-150	5.0L V8	2011 XLT crew cab 4WD, 5.0-liter V8, 6-speed automatic	5.0	4951	NA	Ford	Windsor (Essex), ON, Canada	195,000	AL/AL/CIL	V-8 (90°)	92.2x92.7	10.5:1	360/ 5500	380 (515)/ 4250		SFI/DOHC/4vpc/Ti-VCT/RFF	F150	FPMFS	assembled	composite

LEGEND FOR NORTH AMERICAN ENGINES 2012

AL: aluminum
AC: Atkinson Cycle
BT: bucket tappets
CA: cast aluminum
CI: cast iron
CD: cylinder deactivation
CIFS: cast iron, fracture split
CIL: cast iron liners
CPM: cast powder metal
CS: cast steel
DOV: direct drive valvetrain
DI: direct injection

DOHC: double-overhead-cam
EFI: electronic fuel injection
ETC: electronic throttle control
ESI: engine stop at idle
FPMFS: forged powdered metal fracture split
FPMSC: forged powdered metal saw cut
FRM: fiber-reinforced metal
FS: forged steel
FSFS: forged steel fracture split
FT: forged titanium
HS: hollow steel
ID: indirect injection

INT: intercooler
MAL: magnesium-aluminum composite
NA: information not available at press time
OHV: overhead-valve
PRA: push rods, rocker arms
PRR: push rods, roller rockers
RF: roller followers
RFF: roller finger followers
RRA: roller rocker arms
RT: roller tappets
SAL: silicon aluminum alloy liners
SFI: sequential fuel injection
SFS: sinter forged steel

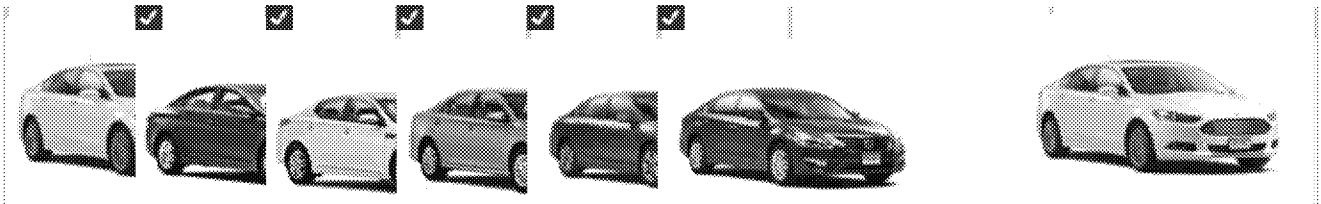
SOHC: single-overhead-cam
SPR: supercharger
Ti-VCT: Twin Independent variable cam timing
TVVT: Twin variable valve timing
TRBO: turbocharger
TRBO-TS: twin-scroll turbocharger
VI: variable intake
VTEC: variable valve timing and lift electronic control
i-VTEC: intelligent variable valve timing and lift electronic control
VCT: variable cam timing
VVL: variable valve lift
VVT: variable valve timing
VVTL: variable valve timing and lift control

Note: Horsepower and torque values in [;] preceded by an E indicate values when operating on E85.
(1) Engine volumes are estimates for the calendar year based on vehicles built in North America and imports sold in North America. Estimates for North American-built vehicles are based on calendar year 2011 production, including export output; imports are based on 2011 North American sales.
(2) Utilizes iron-plasma sprayed on cylinder walls. (3) PBC: Performance Build Center. (4) New engines to be introduced as running changes in 2012.

Model	Engine	0-60 mph	EPA mpg	CR mpg	CR Weight	CR Vehicle Tested	CR Vechicles Tires	BODY STYLE	DRIVE TYPE	WHEEL BASE (ins.)	OVERALL SIZE Length (ins.)	Width (ins.)	Height (ins.)	CURB WEIGHT (lbs.)	STANDARD ENGINE Cyl & Type	Size CID	CC	Liter	Valves per Cyl.	Fuel Sys. Inj.	Intake	Fuel Type	Cyl. Control	Bore & Stroke (ins.)	Bore & Stroke (mm)	Comp. Ratio	Horsepower Hp	RPM	Torque Lb.-Ft.	Nm.	RPM	280	TRANSMISSION Std.	Opt.	STAB. Control	ABS 4-Whl.	Est. MPG City/Hwy	Retail Price ($)	GUZZLER TAX ($) (2)
Ford Fusion	**1.6L Turbo 4**	**8.9**	**28**	**25**	3415	2013 SE sedan, 1.6-liter 4-cyl. turbo, 6-speed automatic	Michelin Energy Saver A/S, size 235/50R17 96H	4-dr. sedan	FWD	112.2	191.7	72.9	58.1	3,615	DOHC I-4	97	1596	1.6	4	DI	T	G	No	3.11x3.20	79x81.3	10.1:1	178	5700	184	250	2500		M6	A6	S	S	25/37	--	--
Hyundai Sonata	2.4L Four	8.2	26	27	3210	2011 GLS sedan, 2.4-liter 4-cyl., 6-speed automatic	Kumho Solus KH25, size P205/65R16 94H	4-dr. sedan	FWD	110.0	189.8	72.2	57.9	3,161	DOHC I-4	162	2359	2.4	4	DI	N	G	No	3.46x3.82	88x97	11.3:1	198	6300	184	250	4250		A6	--	S	S	24/35	19,915	--
Kia Optima	2.4L Four	8.6	27	25	3260	2011 LX sedan, 2.4-liter 4-cyl., 6-speed automatic	Nexen Classe Premiere CP671, size P205/65R16 94H	4-dr. sedan	FWD	110.0	190.7	72.1	57.3	3,223	DOHC I-4	144	2359	2.4	4	DI	N	G	No	3.46x3.82	88x97	11.3:1	200	6300	186	252	4250		A6	--	S	S	24/35	21,975	--
Toyota Camry**	2.4L Four	8.4	28	27	3155	2012 LE sedan, 2.5-liter 4-cyl., 6-speed automatic	Michelin Energy Saver A/S, size P205/65R16 94S	4-dr. sedan	FWD	109.3	189.2	71.7	57.9	3,190	DOHC I-4	152	2494	2.5	4	SFI	N	G	No	3.54x3.86	90x98	10.4:1	178	6000	170	230	4100		A6	--	S	S	22/33	23,260	--
Honda Accord	2.4L Four	7.7	30	30	3245	2013 LX sedan, 2.4-liter 4-cyl., CVT	Continental COntiProContact, size 205/65R16 95H	4-dr. sedan	FWD	109.3	191.4	72.8	57.7	3,192	DOHC I-4	144	2356	2.4	4	SFI	N	G	No	3.43x3.90	87x99.1	11.1:1	185	6400	181	245	3900		M6	CVT	S	S	24/34	22,470	--
Nissan Altima	2.4L Four	8.2	27	31	3130	2013 2.5 S sedan, 2.5-liter 4-cyl., CVT	Continental ContiProContact, size P215/60R16 94T	4-dr. sedan	FWD	109.3	191.5	72.0	57.9	3,114	DOHC I-4	153	2488	2.5	4	SFI	N	G	No	3.50x3.94	89x100	9.6:1	182	6000	180	244	4000		CVT	--	S	S	27/38	23,280	--
Ford Fusion	**2.0L Turbo 4**	**7.4**	**26**	**22**	3615	2013 Titanium sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	Goodyear Eagle LS 2, size 235/45R18 94V	4-dr. sedan	FWD	112.2	191.7	72.9	58.1	3,427	DOHC I-4	122	1999	2.0	4	DI	T	G	No	3.44x3.20	87.4x81.3	9.3:1	240	5500	270	366	3000		A6	--	S	S	22/31	30,995	--
Hyundai Sonata	**2.0L Turbo 4**	**6.6**	**26**	**25**	3450	2011 Limited sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	Hankook Optimo H426, size P205/65R16 94H	4-dr. sedan	FWD	110.0	189.8	72.2	57.9	3,452	DOHC I-4	121	1998	2.0	4	DI	T	G	No	3.39x3.39	86x86	9.5:1	274	6000	269	365	1750-4500		A6	--	S	S	22/34	27,995	--
Kia Optima	**2.0L Turbo 4**	**6.6**	**26**	**24**	3535	2011 SX sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	Nexen Classe Premiere CP662, size 225/45R18 95V	4-dr. sedan	FWD	110.0	190.7	72.1	57.3	3,385	DOHC I-4	122	1998	2.0	4	DI	T	G	No	3.39x3.39	86x86	9.5:1	274	6000	269	302	1750-4500		A6	--	S	S	22/34	27,575	--
Toyota Camry**	3.5L V6	6.4	25	26	3375	2012 XLE sedan, 3.5-liter V6, 6-speed automatic	Michelin Primacy MXV4, size P215/55R17 93V	4-dr. sedan	FWD	109.3	189.2	71.7	57.9	3,395	DOHC V-6	211	3456	3.5	4	SFI	N	G	No	3.70x3.27	94x83	10.8:1	268	6200	248	336	4700		A6	--	S	S	20/29	30,605	--
Honda Accord	3.5L V6	6.3	25	26	3555	2013 EX-L sedan, 3.5-liter V6, 6-speed automatic	Michelin Primacy MXV4, size 215/55R17 94V	4-dr. sedan	FWD	109.3	191.4	72.8	57.7	3,554	SOHC V-6	212	3471	3.5	4	SFI	N	G	Yes	3.50x3.66	89x93	10.5:1	278	6200	252	342	4900		A6	--	S	S	21/34	30,860	--
Nissan Altima	3.5L V6	6.3	23	24	3385	2013 3.5 SL sedan, 3.5-liter V6, CVT	Dunlop Sport 7000A/S, size P235/45R18 94V	4-dr. sedan	FWD	109.3	191.5	72.0	58.1	3,355	DOHC V-6	214	3498	3.5	4	SFI	N	G	No	3.76x3.21	95.5x81.4	10.3:1	270	6000	251	340	4400		CVT	--	S	S	22/31	30,860	--
Chevrolet Cruze	**1.4L Turbo 4**	**9.8**	**28**	**26**	3140	2011 1LT sedan, 1.4-liter 4-cyl. turbo, 6-speed automatic	Firestone FR710, size P215/60R16 94S	4-dr. sedan	FWD	106.4	183.9	72.0	57.7	3,186	DOHC I-4	83	1364	1.4	4	SFI	T	G	No	2.85x3.25	72.5x82.6	9.5:1	138	4900	148	200	1850		M6	A6	S	S	26/38	18,895	--
Chevrolet Cruze	1.8L Four	10.5	27	26	3130	2011 LS sedan, 1.8-liter 4-cyl., 6-speed automatic	Firestone FR710, size P215/60R16 94S	4-dr. sedan	FWD	105.7	181.0	70.7	58.1	3,093	DOHC I-4	110	1796	1.8	4	SFI	N	G	No	3.17x3.47	80.5x88.2	10.5:1	138	6800	125	168	3800		M6	A6	S	S	25/36	16,995	--
Dodge Dart	**1.4L Turbo 4**	**8.6**	**31**	**29**	3300	2013 Rallye sedan, 1.4-liter 4-cyl. turbo, 6-speed sequentia	Continental ContiProContact, size 225/45R17 91H	4-dr. sedan	FWD	106.4	183.9	72.0	57.7	3,186	DOHC I-4	84	1368	1.4	4	SFI	T	G	No	2.83x3.31	72x84	9.8:1	160	5500	184	250	2500-4000		M6	AMT6	S	S	27/39	--	--
Dodge Dart	2.0L Four	11	27	27	3290	2013 SXT sedan, 2.0-liter 4-cyl., 6-speed automatic	Continental ContiProContact, size 225/45R17 91H	4-dr. sedan	FWD	106.4	183.9	72.0	57.7	3,186	DOHC I-4	122	1999	2.0	4	SFI	N	G	No	3.38x3.38	86x86	10.2:1	160	6400	148	200	4600		M6	A6	S	S	25/36	16,790	--

							BODY STYLE	DRIVE TYPE	BOX LENGTH (ft.)	WHEEL BASE	OVERALL SIZE Length (ins.)	Width (ins.)	Height (ins.)	CURB WEIGHT (lbs.)	GROSS VEH. WGT. (lbs.)	STANDARD ENGINE Cyl & Type	Size CID	CC	Liter	Valves per Cyl.	Fuel Sys. Inj.	Intake	Fuel Type	Cylinder Control	Bore & Stroke (ins.)	Bore & Stroke (mm)	Comp. Ratio	Net HP Power	RPM	Torque Lbs.-Ft.	Nm	RPM	TRANSMISSION Std.	Opt.	STAB. CNTRL	ABS 4-Whl.	EST. MPG City/Hwy	RETAIL PRICE
Ford Escape	1.6L Turbo 4	9.9	25	22	3675	2013 SE 4-door SUV AWD, 1.6-liter 4-cyl. turbo, 6-speed automatic	Continental ContiPro Contact, size 235/55R17 99H	4-dr. cuv	AWD	--	105.9	178.1	72.4	66.3	3,684	NA	DOHC I-4	97	1556	1.6	4	SFI	T	G	No	3.11x3.20	79x81.3	10.0:1	173	NA	177	240	NA	A6	--	S	S	22/30	27,645
Honda CR-V	2.4L Four	9.2	25	23	3450	2012 EX 4-door SUV AWD, 2.4-liter 4-cyl., 5-speed automatic	Bridgestone Dueler H/P Sport AS, size 225/65R17 102T	4-dr. cuv	AWD	--	103.1	178.3	71.6	65.1	3,490	NA	DOHC I-4	144	2354	2.4	4	SFI	N	G	No	3.43x3.90	87x99	10.0:1	185	7000	163	221	4400	A5	--	S	S	22/30	26,875
Kia Sportage	2.4L Four	10.3	23	22	3375	2011 LX 4-door SUV AWD, 2.4-liter 4-cyl., 6-speed automatic	Kumho Solus KL21, size 225/60R17 99H	4-dr. cuv	AWD	--	103.9	174.8	73.0	64.4	3,157	4,497	DOHC I-4	144	2359	2.4	4	SFI	N	G	No	3.47x3.82	88x97	10.5:1	176	4000	168	228	4000	A6	--	S	S	22/31	22,490
Toyota RAV4	2.5L Four (2012)	10	24	23	3590	2009 Base 4-door SUV AWD, 2.5-liter 4-cyl., 4-speed automatic	Yokohama Geolandar G91, size 225/65R17 101H	4-dr. cuv	AWD	--	104.7	181.9	71.5	66.3	3,360	4,430	DOHC I-4	152	2494	2.5	4	SFI	N	G	No	3.54x3.86	89.9x98	10.4:1	179	6000	172	233	4000	A4	--	S	S	21/27	23,460
Ford Escape	2.0L Turbo 4	8.2	24	22	3885	2013 Titanium 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	Continental ContiPro Contact, size 235/45R/19 95H	4-dr. cuv	AWD	--	105.9	178.1	72.4	66.3	3,684	NA	DOHC I-4	122	1999	2.0	4	SFI	T	G	No	3.44x3.20	87.5x83.1	9.3:1	237	5500	250	339	1750-4000	A6	--	S	S	21/28	32,945
Kia Sportage	2.0L Turbo 4	7.1	22	21	3645	2012 SX 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	Hankook Optimo H426, size 235/55R18 100H	4-dr. cuv	AWD	--	103.9	174.8	73.0	64.4	3,466	4,696	DOHC I-4	122	1998	2.0	4	DI	T	G	No	3.39x3.39	86x86	9.5:1	260	6000	269	302	1850-3000	A6	--	S	S	21/26	29,200
Toyota RAV4	3.5L V6 (2012)	6.7	22	22	3750	2006* Limited 4-door SUV AWD, 3.5-liter V6, 5-speed automatic	Yokohama Geolandar G91, size 225/65R17 101H	4-dr. cuv	AWD	--	104.7	181.9	71.5	66.3	3,560	4,535	DOHC V-6	211	3456	3.5	4	SFI	N	G	No	3.70x3.27	94x83	10.8:1	269	6200	246	336	4700	A5	--	S	S	19/26	--
BMW X3**	2.0L Turbo 4	7.3	24	23	4135	2013 xDrive28i 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 8-speed automatic	Goodyear Eagle LS2 Run Flat, size 245/50R18 100V																																			
BMW X3***	3.0L Six	7.2	21	22																																					
Ford F-150	3.5 V6 Turbo	7.7	17	15	5705	2011 XLT crew cab 4WD, 3.5-liter V6 turbo, 6-speed automatic	Goodyear Wrangler SR-A, size P275/65R18 114T	4-dr. p.u.	4WD	6.5	156.6	243.9	79.2	75.6	5,716	7,350	DOHC V-6	213	3496	3.5	4	DI	2T	G	No	3.64x3.45	92.5x88.7	10.0:1	365	5000	420	569	2500	A6	--	S	S	15/21	--
Ford F-150	5.0L V8	7.8	16	15	5725	2011 XLT crew cab 4WD, 5.0-liter V8, 6-speed automatic	Goodyear Wrangler SR-A, size P275/65R18 114T	4-dr. p.u.	4WD	6.5	156.6	243.9	79.2	75.6	5,716	7,350	DOHC V-8	302	4951	5.0	4	SFI	N	G, E85	No	3.63x3.65	92.2x92.7	10.5:1	360	5500	380	515	4250	A6	--	S	S	14/19	37,170

* Conflicting information from CR Only vehicle listed as tested on their site is a 2006. I put up the 2012 Wards data
** No 2013 data available in Wards.
*** The Consumer Reports Website did not have this vehicle listed as one tested



	Ford Fusion SE 4-cyl **New:** 2013	Hyundai Sonata GLS 4-cyl **New:** 2013	Kia Optima LX 4-cyl **New:** 2013	Toyota Camry LE 4-cyl **New:** 2013	Honda Accord sedan LX 4-cyl CVT **New:** 2013	Nissan Altima 2.5 S 4-cyl CVT **New:** 2013	
Overview							**Overview**
Body Styles	sedan	sedan	sedan	sedan	coupe, sedan	sedan	Body Styles
Trim lines	S, SE, SE Hybrid, Titanium, Titanium Hybrid, Energi	GLS, SE, Hybrid, Limited	LX, EX, SX, Hybrid, Limited	L, LE, SE, Hybrid LE, Hybrid XLE, XLE	LX, LX-S, Sport, EX, EX-L, Touring, Hybrid, Plug-in Hybrid	2.5, 2.5 S, 2.5 SV, 2.5 SL, 3.5 S, 3.5 SV, 3.5 SL	Trim lines
Base MSRP Price Range	$21,700 - $40.200 Price This Car	$20,995 - $27.595 Price This Car	$21,350 - $26.800 Price This Car	$22,235 - $30.465 Price This Car	$21,680 - $33.430 Price This Car	$21,760 - $30.560 + Additional CR SAVINGS up to **$500** Price This Car	Base MSRP Price Range
Drive wheels	Front or AWD	Front	Front	Front	Front	Front	Drive wheels
Seating	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	Seating
Engines available	1.6-liter 4 turbo (173 hp); 2.5-liter 4 (175 hp); 2.0-liter 4 hybrid (188 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (198 hp); 2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.5-liter 4 (173 hp); 2.5-liter 4 (178 hp); 2.5-liter 4 hybrid (200 hp); 3.5-liter V6 (268 hp)	2.4-liter 4 (185 hp); 2.0-liter 4 electric (196 hp); 3.5-liter V6 (278 hp)	2.5-liter 4 (182 hp); 3.5-liter V6 (270 hp)	Engines available
Transmissions available	CVT, 6-speed automatic, 6-speed manual	6-speed automatic	6-speed automatic	CVT, 6-speed automatic	CVT, 6-speed automatic, 6-speed manual	CVT	Transmissions available
Owner Satisfaction	New					New	Owner Satisfaction
Reliability	New						Reliability

Owner Costs							Owner Costs
Safety							**Safety**
Antilock brakes	Standard	Standard	Standard	Standard	Standard	Standard	Antilock brakes
Traction control	Standard	Standard	Standard	Standard	Standard	Standard	Traction control
Stability control	Standard	Standard	Standard	Standard	Standard	Standard	Stability control
Daytime running lights	Not available	Standard	Not available	Optional	Standard	Not available	Daytime running lights
Tire pressure monitor	Available	Available	Available	Available	Available	Available	Tire pressure monitor
Safety belts							**Safety belts**
Center-rear belt	3-point	3-point	3-point	3-point	3-point	3-point	Center-rear belt
Pretensioners, front/rear	Yes/no	Yes/no	Yes/no	Yes/no	Yes/no	Yes/no	Pretensioners, front/rear
Air bags							**Air bags**
Occupant-sensing system	Front	Front	Front	Front	Front	Not available	Occupant-sensing system
Head protection	Standard	Standard	Standard	Standard	Standard	Standard	Head protection
Accident alert system	Not available	Not available	Not available	Not available	Not available	Not available	Accident alert system
Crash and rollover tests							**Crash and rollover tests**
IIHS offset-crash test	Good	Good	Good	Good	Good	Good	IIHS offset-crash test
IIHS side-crash test with side airbags	Good	Good	Good	Good	Good	Good	IIHS side-crash test with side airbags
IIHS side-crash test without side air bags	NA	NA	NA	NA	NA	NA	IIHS side-crash test without side air bags

Gov't front-crash test, driver	NA	○	○	○	◒	○
Gov't front-crash test, front pass.	NA	◒	○	◒	◒	◒
Gov't side-crash test, driver	NA	○	○	○	○	◒
Gov't side-crash test, rear pass.	NA	○	○	○	○	○
Gov't rollover test, 2WD	NA	○	○	◒	NA	◒
Gov't rollover test, 4WD	NA	NA	NA	NA	NA	NA
Performance						
Acceleration	◒	◒	◒	◒	◒	◒
0 to 30 mph, sec.	3.1	3.3	3.4	3.2	3.3	3.3
0 to 60 mph, sec.	8.9	8.2	8.6	8.4	7.7	8.2
45 to 65 mph, sec.	5.9	5.2	5.2	5.2	4.9	5.6
Quarter-mile, sec.	16.8	16.5	16.8	16.5	16	16.4
Quarter-mile, mph	85	88	87	87	92	89
Transmission	○	○	○	○	○	○
RPM at 60 mph	1,815	1,730	1,730	1,720	1,590	NA
Routine handling	◒	◒	◒	◒	◒	○
Emergency handling	○	◒	◒	○	◒	○
	52.5	53	56	50.5	53	51.5

Gov't front-crash test, driver

Gov't front-crash test, front pass.

Gov't side-crash test, driver

Gov't side-crash test, rear pass.

Gov't rollover test, 2WD

Gov't rollover test, 4WD

Performance

Acceleration

0 to 30 mph, sec.

0 to 60 mph, sec.

45 to 65 mph, sec.

Quarter-mile, sec.

Quarter-mile, mph

Transmission

RPM at 60 mph

Routine handling

Emergency handling

Avoidance maneuver, max speed							Avoidance maneuver, max speed
Braking							**Braking**
Braking from 60 mph dry, ft.	129	134	143	130	136	140	Braking from 60 mph dry, ft.
Braking from 60 mph wet, ft.	145	136	144	145	148	152	Braking from 60 mph wet, ft.
Headlights							Headlights
omfort/convenience							**omfort/convenience**
Ride							Ride
Noise							Noise
Driving position							Driving position
Front seat comfort							**Front seat comfort**
Front shoulder room, in.	57.5	55.5	56.5	57.5	58.5	56	Front shoulder room, in.
Front leg room, in.	42	41.5	42.5	42	41	42	Front leg room, in.
Front head room, in.	5	4.5	4.5	5	5	5.5	Front head room, in.
Rear seat comfort							**Rear seat comfort**
Rear shoulder room, in.	54.5	54.5	53.5	55.5	55.5	54.5	Rear shoulder room, in.
Rear fore-aft room, in.	29	29	30	29	30	29	Rear fore-aft room, in.
Rear head room, in.	3	2	3	3	2	2	Rear head room, in.
Third seat comfort	NA	NA	NA	NA	NA	NA	**Third seat comfort**
	NA	NA	NA	NA	NA	NA	

Third shoulder room, in.							Third shoulder room, in.
Third fore-aft room, in.	NA	NA	NA	NA	NA	NA	Third fore-aft room, in.
Third head room, in.	NA	NA	NA	NA	NA	NA	Third head room, in.
Front access	◓	◓	◓	◓	◓	◓	Front access
Rear access	◓	◓	◓	◓	◓	◓	Rear access
Third access	NA	NA	NA	NA	NA	NA	Third access
Controls and display	◓	●	●	◓	●	●	Controls and display
Interior fit and finish	○	◓	◓	◓	◓	○	Interior fit and finish
Trunk/Cargo Area	○	○	○	◓	◓	◓	**Trunk/Cargo Area**
Luggage/cargo capacity, cu. ft.	3+2	4+1	4+1	4+0	3+2	3+2	Luggage/cargo capacity, cu. ft.
Climate system	●	○	○	○	◓	○	Climate system
Fuel Economy							**Fuel Economy**
CR's overall mileage, mpg	25	27	25	27	30	31	CR's overall mileage, mpg
CR's city/highway, mpg	16 / 37	18 / 39	18 / 34	19 / 41	21 / 40	21 / 44	CR's city/highway, mpg
CR's 150-mile trip, mpg	NA	32	30	32	NA	NA	CR's 150-mile trip, mpg
Annual fuel	480 gal. / $1,675	450 gal. / $1,580	475 gal. / $1,665	440 gal. / $1,540	405 gal. / $1,415	385 gal. / $1,355	Annual fuel
Cruising range, mi.	415	490	465	465	510	560	Cruising range, mi.
Fuel capacity, gal.	16.5	18.5	18.5	17	17.2	18	Fuel capacity, gal.
Fuel type	Regular	Regular	Regular	Regular	Regular	Regular	Fuel type

EPA city, mpg	23	22	24	25	27	27
EPA highway, mpg	36	35	34	35	36	38
Specifications						
Length, in.	192	190	191	189	191	192
Width, in.	73	72	72	72	73	72
Height, in.	58	58	57	58	58	58
Wheelbase, in.	112	110	110	109	109	109
Turning circle, ft.	38	39	38	40	41	40
Road clearance, in.	5	4	4	5	5	4.5
Curb weight, lb.	3,415	3,210	3,260	3,155	3,245	3,130
Percent weight, front/rear	59 / 41	61 / 39	60 / 40	62 / 38	61 / 39	60 / 40
Max. load, lb.	850	905	905	905	850	900
Towing capacity, lb.	1,000	NR	NR	NR	1,000	NR
Warranty						
Basic	Mar-36	May-60	May-60	Mar-36	Mar-36	Mar-36
Powertrain	May-60	10/100	10/100	May-60	May-60	May-60
Rust through	5/unlimited	7/unlimited	5/100	5/unlimited	5/unlimited	5/unlimited
Roadside aid	May-60	5/unlimited	May-60	Mar-36	Mar-36	Mar-36
	Ford Fusion SE 4-cyl **New:** 2013 Overview Ratings & Specs	Hyundai Sonata GLS 4-cyl **New:** 2013 Overview Ratings & Specs	Kia Optima LX 4-cyl **New:** 2013 Overview Ratings & Specs	Toyota Camry LE 4-cyl **New:** 2013 Overview Ratings & Specs	Honda Accord sedan LX 4-cyl CVT **New:** 2013 Overview Ratings & Specs	Nissan Altima 2.5 S 4-cyl CVT **New:** 2013 Overview Ratings & Specs

EPA city, mpg
EPA highway, mpg
Specifications
Length, in.
Width, in.
Height, in.
Wheelbase, in.
Turning circle, ft.
Road clearance, in.
Curb weight, lb.
Percent weight, front/rear
Max. load, lb.
Towing capacity, lb.
Warranty
Basic
Powertrain
Rust through
Roadside aid

	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos		

	Ford Fusion Titanium 4-cyl **New:** 2013	Hyundai Sonata Limited 4-cyl **New:** 2013	Kia Optima SX 4-cyl **New:** 2013	Toyota Camry XLE V6 **New:** 2013	Honda Accord sedan EX-L V6 **New:** 2013	Nissan Altima 3.5 SL V6 CVT **New:** 2013	Chevrolet Cruze 1LT 4-cyl **New:** 2013
Overview							
Body Styles	sedan	sedan	sedan	sedan	coupe, sedan	sedan	sedan
Trim lines	S, SE, SE Hybrid, Titanium, Titanium Hybrid, Energi	GLS, SE, Hybrid, Limited	LX, EX, SX, Hybrid, Limited	L, LE, SE, Hybrid LE, Hybrid XLE, XLE	LX, LX-S, Sport, EX, EX-L, Touring, Hybrid, Plug-in Hybrid	2.5, 2.5 S, 2.5 SV, 2.5 SL, 3.5 S, 3.5 SV, 3.5 SL	LS, 1LT, Eco, 2LT, LTZ
Base MSRP Price Range	$21,700 - $40.200 Price This Car	$20,995 - $27.595 Price This Car	$21,350 - $26.800 Price This Car	$22,235 - $30.465 Price This Car	$21,680 - $33.430 Price This Car	$21,760 - $30.560 + Additional CR SAVINGS up to **$500** Price This Car	$17,130 - $23.550 Price This Car
Drive wheels	Front or AWD	Front	Front	Front	Front	Front	Front
Seating	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear
Engines available	1.6-liter 4 turbo (173 hp); 2.5-liter 4 (175 hp); 2.0-liter 4 hybrid (188 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (198 hp); 2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.5-liter 4 (173 hp); 2.5-liter 4 (178 hp); 2.5-liter 4 hybrid (200 hp); 3.5-liter V6 (268 hp)	2.4-liter 4 (185 hp); 2.0-liter 4 electric (196 hp); 3.5-liter V6 (278 hp)	2.5-liter 4 (182 hp); 3.5-liter V6 (270 hp)	1.4-liter 4 turbo (138 hp); 1.8-liter 4 (138 hp)
Transmissions available	CVT, 6-speed automatic, 6-speed manual	6-speed automatic	6-speed automatic	CVT, 6-speed automatic	CVT, 6-speed automatic, 6-speed manual	CVT	6-speed automatic, 6-speed manual
Owner Satisfaction	New					New	
Reliability	New						

						Owner Costs
						Safety
Standard	Standard	Standard	Standard	Standard	Standard	Antilock brakes
Standard	Standard	Standard	Standard	Standard	Standard	Traction control
Standard	Standard	Standard	Standard	Standard	Standard	Stability control
Not available	Standard	Not available	Optional	Standard	Not available	Daytime running lights
Available	Available	Available	Available	Available	Available	Tire pressure monitor
						Safety belts
3-point	3-point	3-point	3-point	3-point	3-point	Center-rear belt
Yes/no	Yes/no	Yes/no	Yes/no	Yes/no	Yes/no	Pretensioners, front/rear
						Air bags
Front	Front	Front	Front	Front	Not available	Occupant-sensing system
Standard	Standard	Standard	Standard	Standard	Standard	Head protection
Not available	Not available	Not available	Not available	Not available	Not available	Accident alert system
						Crash and rollover tests
Good	Good	Good	Good	Good	Good	IIHS offset-crash test
Good	Good	Good	Good	Good	Good	IIHS side-crash test with side airbags
NA	NA	NA	NA	NA	NA	IIHS side-crash test without side air bags

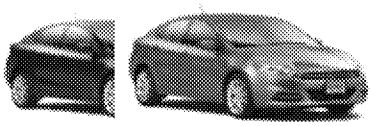
NA	●	●	●	◓	●	Gov't front-crash test, driver	●
NA	◓	●	◓	◓	◓	Gov't front-crash test, front pass.	●
NA	●	●	●	●	◓	Gov't side-crash test, driver	●
NA	●	●	●	●	●	Gov't side-crash test, rear pass.	●
NA	●	●	◓	NA	◓	Gov't rollover test, 2WD	◓
NA	NA	NA	NA	NA	NA	Gov't rollover test, 4WD	NA
						erformance	
◓	●	●	●	●	●	**Acceleration**	○
3	2.8	3	2.7	2.7	2.9	0 to 30 mph, sec.	3.7
7.4	6.6	6.6	6.4	6.3	6.3	0 to 60 mph, sec.	9.8
4.5	4.2	4.2	4	4.4	4.2	45 to 65 mph, sec.	6.3
15.8	15.5	15.1	14.8	14.7	14.7	Quarter-mile, sec.	17.6
92	100	98	99	99	101	Quarter-mile, mph	82
●	●	●	●	●	●	**Transmission**	●
1,895	1,785	1,785	1,650	1,725	NA	RPM at 60 mph	2,290
●	◓	◓	◓	◓	○	Routine handling	◓
◓	◓	◓	○	◓	○	**Emergency handling**	◓
53.5	52	54	50.5	52.5	52		52

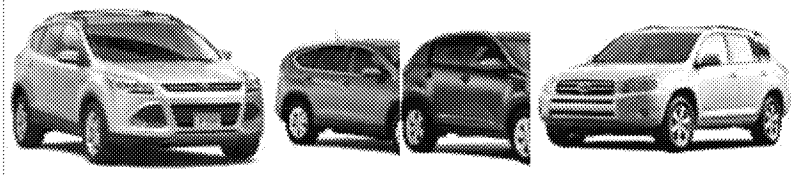
						Avoidance maneuver, max speed
●	◓	◓	◓	◓	◓	
						Braking
130	136	142	136	139	133	Braking from 60 mph dry, ft. 139
141	139	152	145	150	141	Braking from 60 mph wet, ft. 143
○	○	○	◓	○	○	Headlights ◓
						Comfort/convenience
◓	◓	○	◓	◓	○	Ride ◓
◓	◓	◓	◓	◓	◓	Noise ◓
◓	◓	◓	◓	●	◓	Driving position ◓
◓	◓	◓	◓	●	◓	**Front seat comfort**
57.5	55.5	56.5	57.5	58.5	56	Front shoulder room, in. 54.5
42	41.5	42.5	42	40.5	42	Front leg room, in. 43
2.5	4.5	2	2.5	4	4	Front head room, in. 6
◓	◓	○	◓	◓	◓	**Rear seat comfort** ◓
54.5	54.5	53.5	55.5	55	54.5	Rear shoulder room, in. 53
29	29	30	29	30	29	Rear fore-aft room, in. 26
2.5	2	2	3	2	2	Rear head room, in. 3
NA	NA	NA	NA	NA	NA	**Third seat comfort** NA
NA	NA	NA	NA	NA	NA	NA

						Third shoulder room, in.
NA	NA	NA	NA	NA	NA	Third fore-aft room, in. NA
NA	NA	NA	NA	NA	NA	Third head room, in. NA
◓	◓	◓	◓	◓	◓	Front access ◓
◓	◓	◓	◓	◓	◓	Rear access ○
NA	NA	NA	NA	NA	NA	Third access NA
◒	●	●	◓	◓	●	Controls and display ◓
○	◓	◓	◓	◓	◓	Interior fit and finish ◓
○	○	○	◒	◒	○	**Trunk/Cargo Area** ○
3+1	4+1	4+1	4+0	3+2	3+1	Luggage/cargo capacity, cu. ft. 3+1
●	●	●	●	●	●	Climate system ○
						Fuel Economy
22	25	24	26	26	24	CR's overall mileage, mpg 26
14 / 33	18 / 34	16 / 36	17 / 37	16 / 39	16 / 35	CR's city/highway, mpg 17 / 36
NA	30	29	32	NA	NA	CR's 150-mile trip, mpg 35
540 gal. / $1,895	475 gal. / $1,670	495 gal. / $1,735	460 gal. / $1,615	470 gal. / $1,640	490 gal. / $1,720	Annual fuel 455 gal. / $1,595
365	465	450	440	440	440	Cruising range, mi. 410
16.5	18.5	18.5	17	17.2	18	Fuel capacity, gal. 15.6
Regular	Regular	Regular	Regular	Regular	Regular	Fuel type Regular

22	22	22	21	21	22	EPA city, mpg	24
33	33	34	30	34	31	EPA highway, mpg	36
						Specifications	
192	190	191	189	191	192	Length, in.	181
73	72	72	72	73	72	Width, in.	71
58	58	57	58	58	58	Height, in.	58
112	110	110	109	109	109	Wheelbase, in.	106
37	38	38	40	40	41	Turning circle, ft.	38
5	4	4.5	5.5	5	4.5	Road clearance, in.	4.5
3,615	3,450	3,535	3,375	3,555	3,385	Curb weight, lb.	3,140
59 / 41	60 / 40	60 / 40	62 / 38	62 / 38	61 / 39	Percent weight, front/rear	61 / 39
850	905	905	905	850	900	Max. load, lb.	900
2,000	NR	NR	NR	1,000	NR	Towing capacity, lb.	1,000
						Warranty	
Mar-36	May-60	May-60	Mar-36	Mar-36	Mar-36	Basic	Mar-36
May-60	10/100	10/100	May-60	May-60	May-60	Powertrain	5/100
5/unlimited	7/unlimited	5/100	5/unlimited	5/unlimited	5/unlimited	Rust through	6/100
May-60	5/unlimited	May-60	Mar-36	Mar-36	Mar-36	Roadside aid	5/100
Ford Fusion Titanium 4-cyl	Hyundai Sonata Limited 4-cyl	Kia Optima SX 4-cyl	Toyota Camry XLE V6	Honda Accord sedan EX-L V6	Nissan Altima 3.5 SL V6 CVT		Chevrolet Cruze 1LT 4-cyl
New: 2013	**New:** 2013	**New:** 2013	**New:** 2013	**New:** 2013	**New:** 2013		**New:** 2013
Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs		Overview Ratings & Specs

Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos		Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos





	Chevrolet Cruze LS 4-cyl **New:** 2013	Dodge Dart Rallye 4-cyl **New:** 2013	Dodge Dart SXT 4-cyl **New:** 2013	Ford Escape SE 4-cyl **New:** 2013	Honda CR-V EX 4-cyl **New:** 2013	Kia Sportage LX 4-cyl **New:** 2013	Toyota RAV4 Base 4-cyl **New:** 2012
Overview							
Body Styles	sedan	sedan	sedan	4-door SUV	4-door SUV	4-door SUV	4-door SUV
Trim lines	LS, 1LT, Eco, 2LT, LTZ	SE, SXT, Rallye, Aero, Limited, R/T	SE, SXT, Rallye, Aero, Limited, R/T	S, SE, SEL, Titanium	LX, EX, EX-L	Base, LX, EX, SX	Base, Sport, Limited
Base MSRP Price Range	$17,130 - $23.550 Price This Car	$15,995 - $19.995 Price This Car	$15,995 - $19.995 Price This Car	$22,470 - $32.120 Price This Car	$22,795 - $30.295 Price This Car	$19,000 - $28.400 Price This Car	$22,650 - $28.650 Price This Car
Drive wheels	Front	Front	Front	Front or AWD	Front or AWD	Front or AWD	Front or AWD
Seating	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear, 2 third
Engines available	1.4-liter 4 turbo (138 hp); 1.8-liter 4 (138 hp)	2.0-liter 4 (160 hp); 1.4-liter 4 turbo (160 hp); 2.4-liter 4 (184 hp)	2.0-liter 4 (160 hp); 1.4-liter 4 turbo (160 hp); 2.4-liter 4 (184 hp)	2.5-liter 4 (168 hp); 1.6-liter 4 turbo (173 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (185 hp)	2.4-liter 4 (176 hp); 2.0-liter 4 turbo (260 hp)	2.5-liter 4 (179 hp); 3.5-liter V6 (269 hp)
Transmissions available	6-speed automatic, 6-speed manual	6-speed automatic, 6-speed manual, 6-speed	6-speed automatic, 6-speed manual, 6-speed	6-speed automatic	5-speed automatic	6-speed automatic, 6-speed manual	4-speed automatic, 5-speed automatic
Owner Satisfaction		New	New	New			
Reliability		New	New	New			

			Owner Costs				
			Safety				
Standard	Standard	Standard	Antilock brakes	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Traction control	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Stability control	Standard	Standard	Standard	Standard
Standard	Not available	Not available	Daytime running lights	Not available	Standard	Not available	Optional
Available	Available	Available	Tire pressure monitor	Available	Available	Available	Available
			Safety belts				
3-point	3-point	3-point	Center-rear belt	3-point	3-point	3-point	3-point
Yes/no	Yes/no	Yes/no	Pretensioners, front/rear	Yes/no	Yes/no	Yes/no	Yes/no
			Air bags				
Front	Front	Front	Occupant-sensing system	Front	Front and Side	Front	Front
Standard	Standard	Standard	Head protection	Standard with rollover	Standard	Standard with rollover	Standard with rollover
Available	Not available	Not available	Accident alert system	Not available	Not available	Not available	Not available
			Crash and rollover tests				
Good	Good	Good	IIHS offset-crash test	Good	Good	Good	Good
Good	Good	Good	IIHS side-crash test with side airbags	Good	Good	Good	Good
NA	NA	NA	IIHS side-crash test without side air bags	NA	NA	NA	NA

				Gov't front-crash test, driver		
				Gov't front-crash test, front pass.		
				Gov't side-crash test, driver		
				Gov't side-crash test, rear pass.		
				Gov't rollover test, 2WD		
NA	NA	NA		Gov't rollover test, 4WD		
				erformance		
				Acceleration		
3.7	3.5	4	3.4	0 to 30 mph, sec.	3.4	3.7	3.7
10.5	8.6	11	9.9	0 to 60 mph, sec.	9.2	10.3	10
6.3	5.8	7.3	6.5	45 to 65 mph, sec.	5.8	6.4	6.2
18	16.8	18.2	17.5	Quarter-mile, sec.	17	17.9	17.5
80	87	80	80	Quarter-mile, mph	84	80	82
				Transmission			
2,290	2,270	2,035	1,825	RPM at 60 mph	1,830	1,850	2,270
				Routine handling			
				Emergency handling			
54	54.5	54	52.5		50	53.5	54.5

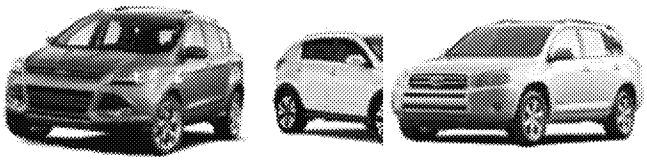
			Avoidance maneuver, max speed			
			Braking			
139	131	127	Braking from 60 mph dry, ft.	133	128	137	130
140	143	139	Braking from 60 mph wet, ft.	139	135	139	145
			Headlights			
			Comfort/convenience			
			Ride			
			Noise			
			Driving position			
			Front seat comfort			
54.5	57.5	57.5	Front shoulder room, in.	55.5	58	56.5	57
43	42	42	Front leg room, in.	42	40.5	42	40
6	4.5	4.5	Front head room, in.	7	4	5.5	6
			Rear seat comfort			
53	54.5	54.5	Rear shoulder room, in.	53.5	54.5	54	55
26	27.5	27.5	Rear fore-aft room, in.	28	29	29	27.5
3	2	2	Rear head room, in.	4.5	4	4	5
NA	NA	NA	**Third seat comfort**	NA	NA	NA	
NA	NA	NA		NA	NA	NA	52

				Third shoulder room, in.		
NA	NA	NA		Third fore-aft room, in.	NA	NA	NA	20.5
NA	NA	NA		Third head room, in.	NA	NA	NA	0
◓	◓	◓		Front access	◉	◉	◓	◉
○	○	○		Rear access	◓	◓	◓	◓
NA	NA	NA		Third access	NA	NA	NA	●
◓	◓	◓		Controls and display	◓	◓	◉	◉
◓	○	○		Interior fit and finish	○	○	○	◓
○	○	○		**Trunk/Cargo Area**	○	○	◒	○
3+1	3+1	3+1		Luggage/cargo capacity, cu. ft.	35	36	28	39
○	◓	○		Climate system	○	○	○	○
				Fuel Economy				
26	29	27		CR's overall mileage, mpg	22	23	22	23
17 / 36	19 / 41	18 / 38		CR's city/highway, mpg	15 / 31	16 / 32	16 / 30	16 / 29
34	NA	NA		CR's 150-mile trip, mpg	NA	NA	26	29
465 gal. / $1,630	420 gal. / $1,470	445 gal. / $1,560		Annual fuel	540 gal. / $1,890	515 gal. / $1,795	550 gal. / $1,915	520 gal. / $1,825
400	450	425		Cruising range, mi.	335	355	320	365
15.6	15.8	15.8		Fuel capacity, gal.	15.1	15.3	15.3	15.9
Regular	Regular	Regular		Fuel type	Regular	Regular	Regular	Regular

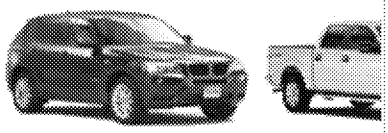
22	27	24		22	22	21	21
35	37	34	EPA city, mpg	30	30	28	27
			EPA highway, mpg				
			Specifications				
181	184	184		178	178	175	181
71	72	72	Length, in.	72	72	73	72
58	58	58	Width, in.	66	65	64	66
106	106	106	Height, in.	106	103	104	105
38	39	39	Wheelbase, in.	40	39	37	37
4.5	4.5	4.5	Turning circle, ft.	5.5	5.5	6	6
3,130	3,300	3,290	Road clearance, in.	3,675	3,450	3,375	3,590
61 / 39	61 / 39	62 / 38	Curb weight, lb.	57 / 43	58 / 42	58 / 42	56 / 44
900	825	825	Percent weight, front/rear	825	850	925	1,155
1,000	1,000	1,000	Max. load, lb.	2,000	1,500	2,000	1,500
			Towing capacity, lb.				
			Warranty				
Mar-36	Mar-36	Mar-36		Mar-36	Mar-36	May-60	Mar-36
5/100	5/100	5/100	Basic	May-60	May-60	10/100	May-60
6/100	5/100	5/100	Powertrain	5/unlimited	5/unlimited	5/100	5/unlimited
5/100	Mar-36	Mar-36	Rust through	May-60	Mar-36	May-60	Mar-36
			Roadside aid				
Chevrolet Cruze LS 4-cyl	Dodge Dart Rallye 4-cyl	Dodge Dart SXT 4-cyl		Ford Escape SE 4-cyl	Honda CR-V EX 4-cyl	Kia Sportage LX 4-cyl	Toyota RAV4 Base 4-cyl
New: 2013	**New:** 2013	**New:** 2013		**New:** 2013	**New:** 2013	**New:** 2013	**New:** 2012
Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs		Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs	Overview Ratings & Specs

Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos

	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos



	Ford Escape Titanium 4-cyl **New:** 2013	Kia Sportage SX 4-cyl **New:** 2013	Toyota RAV4 Limited V6 **New:** 2012
Overview			
Body Styles	4-door SUV	4-door SUV	4-door SUV
Trim lines	S, SE, SEL, Titanium	Base, LX, EX, SX	Base, Sport, Limited
Base MSRP Price Range	$22,470 - $32.120 Price This Car	$19,000 - $28.400 Price This Car	$22,650 - $28.650 Price This Car
Drive wheels	Front or AWD	Front or AWD	Front or AWD
Seating	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear, 2 third
Engines available	2.5-liter 4 (168 hp); 1.6-liter 4 turbo (173 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (176 hp); 2.0-liter 4 turbo (260 hp)	2.5-liter 4 (179 hp); 3.5-liter V6 (269 hp)
Transmissions available	6-speed automatic	6-speed automatic, 6-speed manual	4-speed automatic, 5-speed automatic
Owner Satisfaction	New		
Reliability	New		



	BMW X3 xDrive28i 4-cyl **New:** 2013
Overview	
Body Styles	4-door SUV
Trim lines	xDrive28i, xDrive35i
Base MSRP Price Range	$38,850 - $43.950 Price This Car
Drive wheels	AWD
Seating	2 front, 3 rear
Engines available	2.0-liter 4 turbo (240 hp); 3.0-liter 6 turbo (300 hp)
Transmissions available	8-speed automatic
Owner Satisfaction	
Reliability	New

Owner Costs			
Safety			
Antilock brakes	Standard	Standard	Standard
Traction control	Standard	Standard	Standard
Stability control	Standard	Standard	Standard
Daytime running lights	Not available	Not available	Optional
Tire pressure monitor	Available	Available	Available
Safety belts			
Center-rear belt	3-point	3-point	3-point
Pretensioners, front/rear	Yes/no	Yes/no	Yes/no
Air bags			
Occupant-sensing system	Front	Front	Front
Head protection	Standard with rollover	Standard with rollover	Standard with rollover
Accident alert system	Not available	Not available	Not available
Crash and rollover tests			
IIHS offset-crash test	Good	Good	Good
IIHS side-crash test with side airbags	Good	Good	Good
IIHS side-crash test without side air bags	NA	NA	NA

Owner Costs	
Safety	
Antilock brakes	Standard
Traction control	Standard
Stability control	Standard
Daytime running lights	Optional
Tire pressure monitor	Available
Safety belts	
Center-rear belt	3-point
Pretensioners, front/rear	Yes/no
Air bags	
Occupant-sensing system	Front
Head protection	Standard
Accident alert system	Available
Crash and rollover tests	
IIHS offset-crash test	Good
IIHS side-crash test with side airbags	Good
IIHS side-crash test without side air bags	NA

Gov't front-crash test, driver			
Gov't front-crash test, front pass.			
Gov't side-crash test, driver			
Gov't side-crash test, rear pass.			
Gov't rollover test, 2WD			
Gov't rollover test, 4WD			
erformance			
Acceleration			
0 to 30 mph, sec.	2.9	2.8	2.6
0 to 60 mph, sec.	8.2	7.1	6.7
45 to 65 mph, sec.	5.2	4.6	4.3
Quarter-mile, sec.	16.3	15.5	15.3
Quarter-mile, mph	87	94	93
Transmission			
RPM at 60 mph	1,710	1,880	1,690
Routine handling			
Emergency handling			
	52.5	53.5	52.5

Gov't front-crash test, driver	NA
Gov't front-crash test, front pass.	NA
Gov't side-crash test, driver	NA
Gov't side-crash test, rear pass.	NA
Gov't rollover test, 2WD	NA
Gov't rollover test, 4WD	NA
erformance	
Acceleration	
0 to 30 mph, sec.	2.9
0 to 60 mph, sec.	7.3
45 to 65 mph, sec.	4.5
Quarter-mile, sec.	15.8
Quarter-mile, mph	91
Transmission	
RPM at 60 mph	1,690
Routine handling	
Emergency handling	
	53

Avoidance maneuver, max speed			
Braking			
Braking from 60 mph dry, ft.	134	135	135
Braking from 60 mph wet, ft.	139	144	143
Headlights			
omfort/convenience			
Ride			
Noise			
Driving position			
Front seat comfort			
Front shoulder room, in.	55.5	56.5	57
Front leg room, in.	42	41	40
Front head room, in.	4.5	3	4
Rear seat comfort			
Rear shoulder room, in.	53.5	54	55
Rear fore-aft room, in.	26.5	28	29
Rear head room, in.	2.5	2	4
Third seat comfort	NA	NA	NA
	NA	NA	52

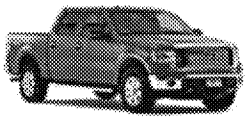
Avoidance maneuver, max speed	
Braking	
Braking from 60 mph dry, ft.	130
Braking from 60 mph wet, ft.	138
Headlights	
omfort/convenience	
Ride	
Noise	
Driving position	
Front seat comfort	
Front shoulder room, in.	57
Front leg room, in.	43
Front head room, in.	4.5
Rear seat comfort	
Rear shoulder room, in.	55.5
Rear fore-aft room, in.	28.5
Rear head room, in.	4
Third seat comfort	NA
	NA

Third shoulder room, in.				Third shoulder room, in.	
Third fore-aft room, in.	NA	NA	20.5	Third fore-aft room, in.	NA
Third head room, in.	NA	NA	0	Third head room, in.	NA
Front access	●	◓	●	Front access	●
Rear access	◓	◓	◓	Rear access	◓
Third access	NA	NA	NA	Third access	NA
Controls and display	○	◓	●	Controls and display	○
Interior fit and finish	◓	◓	◓	Interior fit and finish	●
Trunk/Cargo Area	○	◒	○	**Trunk/Cargo Area**	○
Luggage/cargo capacity, cu. ft.	35	28	39	Luggage/cargo capacity, cu. ft.	33
Climate system	●	●	●	Climate system	●
Fuel Economy				**Fuel Economy**	
CR's overall mileage, mpg	22	21	22	CR's overall mileage, mpg	23
CR's city/highway, mpg	15 / 29	15 / 29	15 / 29	CR's city/highway, mpg	16 / 30
CR's 150-mile trip, mpg	NA	25	26	CR's 150-mile trip, mpg	NA
Annual fuel	555 gal. / $1,945	570 gal. / $1,995	555 gal. / $1,935	Annual fuel	535 gal. / $1,970
Cruising range, mi.	325	320	345	Cruising range, mi.	400
Fuel capacity, gal.	15.1	15.3	15.9	Fuel capacity, gal.	17.7
Fuel type	Regular	Regular	Regular	Fuel type	Premium

EPA city, mpg	21	20	21
EPA highway, mpg	28	25	28
Specifications			
Length, in.	178	175	181
Width, in.	72	73	72
Height, in.	66	64	66
Wheelbase, in.	106	104	105
Turning circle, ft.	40	37	39
Road clearance, in.	6.5	6	6.5
Curb weight, lb.	3,885	3,645	3,750
Percent weight, front/rear	57 / 43	59 / 41	58 / 42
Max. load, lb.	825	925	825
Towing capacity, lb.	3,500	2,000	3,500
Warranty			
Basic	Mar-36	May-60	Mar-36
Powertrain	May-60	10/100	May-60
Rust through	5/unlimited	5/100	5/unlimited
Roadside aid	May-60	May-60	Mar-36
	Ford Escape Titanium 4-cyl **New:** 2013 Overview Ratings & Specs	Kia Sportage SX 4-cyl **New:** 2013 Overview Ratings & Specs	Toyota RAV4 Limited V6 **New:** 2012 Overview Ratings & Specs

EPA city, mpg	21
EPA highway, mpg	28
Specifications	
Length, in.	183
Width, in.	74
Height, in.	65
Wheelbase, in.	111
Turning circle, ft.	40
Road clearance, in.	7.5
Curb weight, lb.	4,135
Percent weight, front/rear	49 / 51
Max. load, lb.	905
Towing capacity, lb.	3,000
Warranty	
Basic	Apr-50
Powertrain	Apr-50
Rust through	12/unlimited
Roadside aid	4/unlimited
	BMW X3 xDrive28i 4-cyl **New:** 2013 Overview Ratings & Specs

	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos			Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos

	
Ford F-150 crew cab XLT V6 **New:** 2013	Ford F-150 crew cab XLT V8 **New:** 2013
regular cab, extended cab, crew cab	regular cab, extended cab, crew cab
XL, STX, XLT, FX2, Lariat, FX4, SVT Raptor, King Ranch, Platinum,	XL, STX, XLT, FX2, Lariat, FX4, SVT Raptor, King Ranch, Platinum,
$23,670 - $52.895 Price This Car	$23,670 - $52.895 Price This Car
Rear or part-time 4WD	Rear or part-time 4WD
3 front, 3 rear	3 front, 3 rear
3.7-liter V6 (302 hp); 5.0-liter V8 (360 hp); 3.5-liter V6 turbo (365 hp); 6.2-liter V8 (411 hp)	3.7-liter V6 (302 hp); 5.0-liter V8 (360 hp); 3.5-liter V6 turbo (365 hp); 6.2-liter V8 (411 hp)
6-speed automatic	6-speed automatic

Standard	Standard
Standard	Standard
Standard	Standard
Varies	Varies
Available	Available
3-point	3-point
Yes/no	Yes/no
Front	Front
Standard with rollover	Standard with rollover
Not available	Not available
Good	Good
Good	Good
NA	NA

3.2	3
7.7	7.8
4.5	4.8
16.1	16.2
91	90
1,490	1,595
46.5	47

142	142
156	155
66.5	66.5
43	43
7	7
66	66
36	36
5.5	5.5
NA	NA
NA	NA

NA	NA
NA	NA
○	○
○	○
NA	NA
◒	◒
○	○
◉	◉
NA	NA
○	○
15	15
22-Oct	22-Oct
19	19
790 gal. / $2,760	775 gal. / $2,715
395	555
26	36
Regular	Regular

15	14
21	19
232	232
79	79
76	76
145	145
49	49
7.5	8.5
5,705	5,725
56 / 44	56 / 44
1,435	1,405
8,200	7,700
Mar-36	Mar-36
May-60	May-60
5/unlimited	5/unlimited
May-60	May-60
Ford F-150 crew cab XLT V6 **New:** 2013 Overview Ratings & Specs	Ford F-150 crew cab XLT V8 **New:** 2013 Overview Ratings & Specs

Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos	Road Test Reliability Owner Satisfaction Prices & Costs Photos & Videos

CR Model From Article	Ford Fusion	Hyundai Sonata	Kia Optima
Engine From Article	1.6L Turbo 4	2.4L Four	2.4L Four
	Ford Fusion	Hyundai Sonata	Kia Optima
	SE 4-cyl	GLS 4-cyl	LX 4-cyl
When New Model is available	New: 2013	New: 2013	New: 2013
Model Tested (From a different part of CR site)	2013 SE sedan, 1.6-liter 4-cyl. turbo, 6-speed automatic	2011 GLS sedan, 2.4-liter 4-cyl., 6-speed automatic	2011 LX sedan, 2.4-liter 4-cyl., 6-speed automatic
Tires on Model Tested (From a different part of CR site)	Michelin Energy Saver A/S, size 235/50R17 96H	Kumho Solus KH25, size P205/65R16 94H	Nexen Classe Premiere CP671, size P205/65R16 94H
Overview			
Body Styles	sedan	sedan	sedan
Trim lines	S, SE, SE Hybrid, Titanium, Titanium Hybrid, Energi	GLS, SE, Hybrid, Limited	LX, EX, SX, Hybrid, Limited
Base MSRP Price Range	$21,700 - $40,200	$20,995 - $27,595	$21,350 - $26,800
	Price This Car	Price This Car	Price This Car
Drive wheels	Front or AWD	Front	Front
Seating	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear
Engines available	1.6-liter 4 turbo (173 hp); 2.5-liter 4 (175 hp); 2.0-liter 4 hybrid (188 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (198 hp); 2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)
Transmissions available	CVT, 6-speed automatic, 6-speed manual	6-speed automatic	6-speed automatic
Owner Satisfaction	New		
Reliability	New		
Safety			
Antilock brakes	Standard	Standard	Standard
Traction control	Standard	Standard	Standard
Stability control	Standard	Standard	Standard
Daytime running lights	Not available	Standard	Not available
Tire pressure monitor	Available	Available	Available
Safety belts			
Center-rear belt	3-point	3-point	3-point
Pretensioners, front/rear	Yes/no	Yes/no	Yes/no
Air bags			
Occupant-sensing system	Front	Front	Front
Head protection	Standard	Standard	Standard
Accident alert system	Not available	Not available	Not available
Crash and rollover tests			
IIHS offset-crash test	Good	Good	Good
IIHS side-crash test with side airbags	Good	Good	Good
Performance			
Acceleration			
0 to 30 mph, sec.	3.1	3.3	3.4
0 to 60 mph, sec.	8.9	8.2	8.6

45 to 65 mph, sec.	5.9	5.2	5.2
Quarter-mile, sec.	16.8	16.5	16.8
Quarter-mile, mph	85	88	87
Transmission			
RPM at 60 mph	1815	1730	1730
Routine handling			
Emergency handling			
Avoidance maneuver, max speed	52.5	53	56
Braking			
Braking from 60 mph dry, ft.	129	134	143
Braking from 60 mph wet, ft.	145	136	144
Driving position			
Front seat comfort			
Front shoulder room, in.	57.5	55.5	56.5
Front leg room, in.	42	41.5	42.5
Front head room, in.	5	4.5	4.5
Rear seat comfort			
Rear shoulder room, in.	54.5	54.5	53.5
Rear fore-aft room, in.	29	29	30
Rear head room, in.	3	2	3
Luggage/cargo capacity, cu. ft.	3+2	4+1	4+1
Fuel Economy			
CR's overall mileage, mpg	25	27	25
CR's city/highway, mpg	16 / 37	18 / 39	18 / 34
CR's 150-mile trip, mpg	NA	32	30
Annual fuel	480 gal. / $1,675	450 gal. / $1,580	475 gal. / $1,665
Cruising range, mi.	415	490	465
Fuel capacity, gal.	16.5	18.5	18.5
Fuel type	Regular	Regular	Regular
EPA city, mpg	23	22	24
EPA highway, mpg	36	35	34
Specifications			
Length, in.	192	190	191
Width, in.	73	72	72
Height, in.	58	58	57
Wheelbase, in.	112	110	110
Turning circle, ft.	38	39	38
Road clearance, in.	5	4	4
Curb weight, lb.	3415	3210	3260
Percent weight, front/rear	59 / 41	61 / 39	60 / 40
Max. load, lb.	850	905	905
Towing capacity, lb.	1000	NR	NR
Warranty			
Basic	13210	22037	22037
Powertrain	22037	10/100	10/100
Rust through	5/unlimited	7/unlimited	5/100
Roadside aid	22037	5/unlimited	22037
	Ford Fusion	Hyundai Sonata	Kia Optima
	SE 4-cyl	GLS 4-cyl	LX 4-cyl
	New: 2013	New: 2013	New: 2013

Toyota Camry	Honda Accord	Nissan Altima		Ford Fusion
2.4L Four	2.4L Four	2.4L Four		2.0L Turbo 4
Toyota Camry	**Honda Accord**	**Nissan Altima**		**Ford Fusion**
LE 4-cyl	**sedan LX 4-cyl CVT**	**2.5 S 4-cyl CVT**		**Titanium 4-cyl**
New: 2013	New: 2013	New: 2013		New: 2013
2012 LE sedan, 2.5-liter 4-cyl., 6-speed automatic	2013 LX sedan, 2.4-liter 4-cyl., CVT	2013 2.5 S sedan, 2.5-liter 4-cyl., CVT		2013 Titanium sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic
Michelin Energy Saver A/S, size P205/65R16 94S	Continental COntiProContact, size 205/65R16 95H	Continental ContiProContact, size P215/60R16 94T		Goodyear Eagle LS 2, size 235/45R18 94V
sedan	coupe, sedan	sedan		sedan
L, LE, SE, Hybrid LE, Hybrid XLE, XLE	LX, LX-S, Sport, EX, EX-L, Touring, Hybrid, Plug-in Hybrid	2.5, 2.5 S, 2.5 SV, 2.5 SL, 3.5 S, 3.5 SV, 3.5 SL		S, SE, SE Hybrid, Titanium, Titanium Hybrid, Energi
$22,235 - $30,465	$21,680 - $33,430	$21,760 - $30,560		$21,700 - $40,200
Price This Car	Price This Car	+ Additional		Price This Car
Front	Front	Front		Front or AWD
2 front, 3 rear	2 front, 3 rear	2 front, 3 rear		2 front, 3 rear
2.5-liter 4 (173 hp); 2.5-liter 4 (178 hp); 2.5-liter 4 hybrid (200 hp); 3.5-liter V6 (268 hp)	2.4-liter 4 (185 hp); 2.0-liter 4 electric (196 hp); 3.5-liter V6 (278 hp)	2.5-liter 4 (182 hp); 3.5-liter V6 (270 hp)		1.6-liter 4 turbo (173 hp); 2.5-liter 4 (175 hp); 2.0-liter 4 hybrid (188 hp); 2.0-liter 4 turbo (231 hp)
CVT, 6-speed automatic	CVT, 6-speed automatic, 6-speed manual	CVT		CVT, 6-speed automatic, 6-speed manual
		New		New
				New
Standard	Standard	Standard		Standard
Standard	Standard	Standard		Standard
Standard	Standard	Standard		Standard
Optional	Standard	Not available		Not available
Available	Available	Available		Available
3-point	3-point	3-point		3-point
Yes/no	Yes/no	Yes/no		Yes/no
Front	Front	Not available		Front
Standard	Standard	Standard		Standard
Not available	Not available	Not available		Not available
Good	Good	Good		Good
Good	Good	Good		Good
3.2	3.3	3.3		3
8.4	7.7	8.2		7.4

5.2	4.9	5.6		4.5
16.5	16	16.4		15.8
87	92	89		92
1720	1590	NA		1895
50.5	53	51.5		53.5
130	136	140		130
145	148	152		141
57.5	58.5	56		57.5
42	41	42		42
5	5	5.5		2.5
55.5	55.5	54.5		54.5
29	30	29		29
3	2	2		2.5
4+0	3+2	3+2		3+1
27	30	31		22
19 / 41	21 / 40	21 / 44		14 / 33
32	NA	NA		NA
440 gal. / $1,540	405 gal. / $1,415	385 gal. / $1,355		540 gal. / $1,895
465	510	560		365
17	17.2	18		16.5
Regular	Regular	Regular		Regular
25	27	27		22
35	36	38		33
189	191	192		192
72	73	72		73
58	58	58		58
109	109	109		112
40	41	40		37
5	5	4.5		5
3155	3245	3130		3615
62 / 38	61 / 39	60 / 40		59 / 41
905	850	900		850
NR	1000	NR		2000
13210	13210	13210		13210
22037	22037	22037		22037
5/unlimited	5/unlimited	5/unlimited		5/unlimited
13210	13210	13210		22037
Toyota Camry	Honda Accord	Nissan Altima		Ford Fusion
LE 4-cyl	sedan LX 4-cyl CVT	2.5 S 4-cyl CVT		Titanium 4-cyl
New: 2013	New: 2013	New: 2013		New: 2013

Hyundai Sonata	Kia Optima	Toyota Camry	Honda Accord
2.0L Turbo 4	**2.0L Turbo 4**	**3.5L V6**	**3.5L V6**
Hyundai Sonata	**Kia Optima**	**Toyota Camry**	**Honda Accord**
Limited 4-cyl	**SX 4-cyl**	**XLE V6**	**sedan EX-L V6**
New: 2013	New: 2013	New: 2013	New: 2013
2011 Limited sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	2011 SX sedan, 2.0-liter 4-cyl. turbo, 6-speed automatic	2012 XLE sedan, 3.5-liter V6, 6-speed automatic	2013 EX-L sedan, 3.5-liter V6, 6-speed automatic
Hankook Optimo H426, size P205/65R16 94H	Nexen Classe Premiere CP662, size 225/45R18 95V	Michelin Primacy MXV4, size P215/55R17 93V	Michelin Primacy MXV4, size 215/55R17 94V
sedan	sedan	sedan	coupe, sedan
GLS, SE, Hybrid, Limited	LX, EX, SX, Hybrid, Limited	L, LE, SE, Hybrid LE, Hybrid XLE, XLE	LX, LX-S, Sport, EX, EX-L, Touring, Hybrid, Plug-in Hybrid
$20,995 - $27,595	$21,350 - $26,800	$22,235 - $30,465	$21,680 - $33,430
Price This Car	Price This Car	Price This Car	Price This Car
Front	Front	Front	Front
2 front, 3 rear	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear
2.4-liter 4 (198 hp); 2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.4-liter 4 (200 hp); 2.4-liter 4 hybrid (206 hp); 2.0-liter 4 turbo (274 hp)	2.5-liter 4 (173 hp); 2.5-liter 4 (178 hp); 2.5-liter 4 hybrid (200 hp); 3.5-liter V6 (268 hp)	2.4-liter 4 (185 hp); 2.0-liter 4 electric (196 hp); 3.5-liter V6 (278 hp)
6-speed automatic	6-speed automatic	CVT, 6-speed automatic	CVT, 6-speed automatic, 6-speed manual
Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard
Standard	Not available	Optional	Standard
Available	Available	Available	Available
3-point	3-point	3-point	3-point
Yes/no	Yes/no	Yes/no	Yes/no
Front	Front	Front	Front
Standard	Standard	Standard	Standard
Not available	Not available	Not available	Not available
Good	Good	Good	Good
Good	Good	Good	Good
2.8	3	2.7	2.7
6.6	6.6	6.4	6.3

4.2	4.2	4	4.4
15.5	15.1	14.8	14.7
100	98	99	99
1785	1785	1650	1725
52	54	50.5	52.5
136	142	136	139
139	152	145	150
55.5	56.5	57.5	58.5
41.5	42.5	42	40.5
4.5	2	2.5	4
54.5	53.5	55.5	55
29	30	29	30
2	2	3	2
4+1	4+1	4+0	3+2
25	24	26	26
18 / 34	16 / 36	17 / 37	16 / 39
30	29	32	NA
475 gal. / $1,670	495 gal. / $1,735	460 gal. / $1,615	470 gal. / $1,640
465	450	440	440
18.5	18.5	17	17.2
Regular	Regular	Regular	Regular
22	22	21	21
33	34	30	34
190	191	189	191
72	72	72	73
58	57	58	58
110	110	109	109
38	38	40	40
4	4.5	5.5	5
3450	3535	3375	3555
60 / 40	60 / 40	62 / 38	62 / 38
905	905	905	850
NR	NR	NR	1000
22037	22037	13210	13210
10/100	10/100	22037	22037
7/unlimited	5/100	5/unlimited	5/unlimited
5/unlimited	22037	13210	13210
Hyundai Sonata	Kia Optima	Toyota Camry	Honda Accord
Limited 4-cyl	SX 4-cyl	XLE V6	sedan EX-L V6
New: 2013	New: 2013	New: 2013	New: 2013

Nissan Altima		Chevrolet Cruze	Chevrolet Cruze	Dodge Dart
3.5L V6		1.4L Turbo 4	1.8L Four	1.4L Turbo 4
Nissan Altima		**Chevrolet Cruze**	**Chevrolet Cruze**	**Dodge Dart**
3.5 SL V6 CVT		**1LT 4-cyl**	**LS 4-cyl**	**Rallye 4-cyl**
New: 2013		New: 2013	New: 2013	New: 2013
2013 3.5 SL sedan, 3.5-liter V6, CVT		2011 1LT sedan, 1.4-liter 4-cyl. turbo, 6-speed automatic	2011 LS sedan, 1.8-liter 4-cyl., 6-speed automatic	2013 Rallye sedan, 1.4-liter 4-cyl. turbo, 6-speed sequentia
Dunlop Sport 7000A/S, size P235/45R18 94V		Firestone FR710, size P215/60R16 94S	Firestone FR710, size P215/60R16 94S	Continental ContiProContact, size 225/45R17 91H
sedan		sedan	sedan	sedan
2.5, 2.5 S, 2.5 SV, 2.5 SL, 3.5 S, 3.5 SV, 3.5 SL		LS, 1LT, Eco, 2LT, LTZ	LS, 1LT, Eco, 2LT, LTZ	SE, SXT, Rallye, Aero, Limited, R/T
$21,760 - $30,560		$17,130 - $23,550	$17,130 - $23,550	$15,995 - $19,995
+ Additional		Price This Car	Price This Car	Price This Car
Front		Front	Front	Front
2 front, 3 rear		2 front, 3 rear	2 front, 3 rear	2 front, 3 rear
2.5-liter 4 (182 hp); 3.5-liter V6 (270 hp)		1.4-liter 4 turbo (138 hp); 1.8-liter 4 (138 hp)	1.4-liter 4 turbo (138 hp); 1.8-liter 4 (138 hp)	2.0-liter 4 (160 hp); 1.4-liter 4 turbo (160 hp); 2.4-liter 4 (184 hp)
CVT		6-speed automatic, 6-speed manual	6-speed automatic, 6-speed manual	6-speed automatic, 6-speed manual, 6-speed sequential
New				New
				New
Standard		Standard	Standard	Standard
Standard		Standard	Standard	Standard
Standard		Standard	Standard	Standard
Not available		Standard	Standard	Not available
Available		Available	Available	Available
3-point		3-point	3-point	3-point
Yes/no		Yes/no	Yes/no	Yes/no
Not available		Front	Front	Front
Standard		Standard	Standard	Standard
Not available		Available	Available	Not available
Good		Good	Good	Good
Good		Good	Good	Good
2.9		3.7	3.7	3.5
6.3		9.8	10.5	8.6

4.2		6.3	6.3	5.8
14.7		17.6	18	16.8
101		82	80	87
NA		2290	2290	2270
52		52	54	54.5
133		139	139	131
141		143	140	143
56		54.5	54.5	57.5
42		43	43	42
4		6	6	4.5
54.5		53	53	54.5
29		26	26	27.5
2		3	3	2
3+1		3+1	3+1	3+1
24		26	26	29
16 / 35		17 / 36	17 / 36	19 / 41
NA		35	34	NA
490 gal. / $1,720		455 gal. / $1,595	465 gal. / $1,630	420 gal. / $1,470
440		410	400	450
18		15.6	15.6	15.8
Regular		Regular	Regular	Regular
22		24	22	27
31		36	35	37
192		181	181	184
72		71	71	72
58		58	58	58
109		106	106	106
41		38	38	39
4.5		4.5	4.5	4.5
3385		3140	3130	3300
61 / 39		61 / 39	61 / 39	61 / 39
900		900	900	825
NR		1000	1000	1000
13210		13210	13210	13210
22037		5/100	5/100	5/100
5/unlimited		6/100	6/100	5/100
13210		5/100	5/100	13210
Nissan Altima		Chevrolet Cruze	Chevrolet Cruze	Dodge Dart
3.5 SL V6 CVT		1LT 4-cyl	LS 4-cyl	Rallye 4-cyl
New: 2013		New: 2013	New: 2013	New: 2013

Dodge Dart		Ford Escape	Honda CR-V	Kia Sportage
2.0L Four		1.6L Turbo 4	2.4L Four	2.4L Four
Dodge Dart		**Ford Escape**	**Honda CR-V**	**Kia Sportage**
SXT 4-cyl		**SE 4-cyl**	**EX 4-cyl**	**LX 4-cyl**
New: 2013		New: 2013	New: 2013	New: 2013
2013 SXT sedan, 2.0-liter 4-cyl., 6-speed automatic		2013 SE 4-door SUV AWD, 1.6-liter 4-cyl. turbo, 6-speed automatic	2012 EX 4-door SUV AWD, 2.4-liter 4-cyl., 5-speed automatic	2011 LX 4-door SUV AWD, 2.4-liter 4-cyl., 6-speed automatic
Continental ContiProContact, size 225/45R17 91H		Continental ContiPro Contact, size 235/55R17 99H	Bridgestone Dueler H/P Sport AS, size 225/65R17 102T	Kumho Solus KL21, size 225/60R17 99H
sedan		4-door SUV	4-door SUV	4-door SUV
SE, SXT, Rallye, Aero, Limited, R/T		S, SE, SEL, Titanium	LX, EX, EX-L	Base, LX, EX, SX
$15,995 - $19,995		$22,470 - $32,120	$22,795 - $30,295	$19,000 - $28,400
Price This Car		Price This Car	Price This Car	Price This Car
Front		Front or AWD	Front or AWD	Front or AWD
2 front, 3 rear		2 front, 3 rear	2 front, 3 rear	2 front, 3 rear
2.0-liter 4 (160 hp); 1.4-liter 4 turbo (160 hp); 2.4-liter 4 (184 hp)		2.5-liter 4 (168 hp); 1.6-liter 4 turbo (173 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (185 hp)	2.4-liter 4 (176 hp); 2.0-liter 4 turbo (260 hp)
6-speed automatic, 6-speed manual, 6-speed sequential		6-speed automatic	5-speed automatic	6-speed automatic, 6-speed manual
New		New		
New		New		
Standard		Standard	Standard	Standard
Standard		Standard	Standard	Standard
Standard		Standard	Standard	Standard
Not available		Not available	Standard	Not available
Available		Available	Available	Available
3-point		3-point	3-point	3-point
Yes/no		Yes/no	Yes/no	Yes/no
Front		Front	Front and Side	Front
Standard		Standard with rollover	Standard	Standard with rollover
Not available		Not available	Not available	Not available
Good		Good	Good	Good
Good		Good	Good	Good
4		3.4	3.4	3.7
11		9.9	9.2	10.3

7.3		6.5	5.8	6.4
18.2		17.5	17	17.9
80		80	84	80
2035		1825	1830	1850
54		52.5	50	53.5
127		133	128	137
139		139	135	139
57.5		55.5	58	56.5
42		42	40.5	42
4.5		7	4	5.5
54.5		53.5	54.5	54
27.5		28	29	29
2		4.5	4	4
3+1		35	36	28
27		22	23	22
18 / 38		15 / 31	16 / 32	16 / 30
NA		NA	NA	26
445 gal. / $1,560		540 gal. / $1,890	515 gal. / $1,795	550 gal. / $1,915
425		335	355	320
15.8		15.1	15.3	15.3
Regular		Regular	Regular	Regular
24		22	22	21
34		30	30	28
184		178	178	175
72		72	72	73
58		66	65	64
106		106	103	104
39		40	39	37
4.5		5.5	5.5	6
3290		3675	3450	3375
62 / 38		57 / 43	58 / 42	58 / 42
825		825	850	925
1000		2000	1500	2000
13210		13210	13210	22037
5/100		22037	22037	10/100
5/100		5/unlimited	5/unlimited	5/100
13210		22037	13210	22037
Dodge Dart		Ford Escape	Honda CR-V	Kia Sportage
SXT 4-cyl		SE 4-cyl	EX 4-cyl	LX 4-cyl
New: 2013		New: 2013	New: 2013	New: 2013

Toyota RAV4	Ford Escape	Kia Sportage	Toyota RAV4
2.5L Four (2012)	2.0L Turbo 4	2.0L Turbo 4	3.5L V6 (2012)
Toyota RAV4	**Ford Escape**	**Kia Sportage**	**Toyota RAV4**
Base 4-cyl	**Titanium 4-cyl**	**SX 4-cyl**	**Limited V6**
New: 2012	New: 2013	New: 2013	New: 2012
2009 Base 4-door SUV AWD, 2.5-liter 4-cyl., 4-speed automatic	2013 Titanium 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	2012 SX 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 6-speed automatic	2006 Limited 4-door SUV AWD, 3.5-liter V6, 5-speed automatic
Yokohama Geolandar G91, size 225/65R17 101H	Continental ContiPro Contact, size 235/45R/19 95H	Hankook Optimo H426, size 235/55R18 100H	Yokohama Geolandar G91, size 225/65R17 101H
4-door SUV	4-door SUV	4-door SUV	4-door SUV
Base, Sport, Limited	S, SE, SEL, Titanium	Base, LX, EX, SX	Base, Sport, Limited
$22,650 - $28,650	$22,470 - $32,120	$19,000 - $28,400	$22,650 - $28,650
Price This Car	Price This Car	Price This Car	Price This Car
Front or AWD	Front or AWD	Front or AWD	Front or AWD
2 front, 3 rear, 2 third	2 front, 3 rear	2 front, 3 rear	2 front, 3 rear, 2 third
2.5-liter 4 (179 hp); 3.5-liter V6 (269 hp)	2.5-liter 4 (168 hp); 1.6-liter 4 turbo (173 hp); 2.0-liter 4 turbo (231 hp)	2.4-liter 4 (176 hp); 2.0-liter 4 turbo (260 hp)	2.5-liter 4 (179 hp); 3.5-liter V6 (269 hp)
4-speed automatic, 5-speed automatic	6-speed automatic	6-speed automatic, 6-speed manual	4-speed automatic, 5-speed automatic
	New		
	New		
Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard
Optional	Not available	Not available	Optional
Available	Available	Available	Available
3-point	3-point	3-point	3-point
Yes/no	Yes/no	Yes/no	Yes/no
Front	Front	Front	Front
Standard with rollover	Standard with rollover	Standard with rollover	Standard with rollover
Not available	Not available	Not available	Not available
Good	Good	Good	Good
Good	Good	Good	Good
3.7	2.9	2.8	2.6
10	8.2	7.1	6.7

6.2		5.2	4.6	4.3	
17.5		16.3	15.5	15.3	
82		87	94	93	
2270		1710	1880	1690	
54.5		52.5	53.5	52.5	
130		134	135	135	
145		139	144	143	
57		55.5	56.5	57	
40		42	41	40	
6		4.5	3	4	
55		53.5	54	55	
27.5		26.5	28	29	
5		2.5	2	4	
39		35	28	39	
23		22	21	22	
16 / 29		15 / 29	15 / 29	15 / 29	
29		NA	25	26	
520 gal. / $1,825		555 gal. / $1,945	570 gal. / $1,995	555 gal. / $1,935	
365		325	320	345	
15.9		15.1	15.3	15.9	
Regular		Regular	Regular	Regular	
21		21	20	21	
27		28	25	28	
181		178	175	181	
72		72	73	72	
66		66	64	66	
105		106	104	105	
37		40	37	39	
6		6.5	6	6.5	
3590		3885	3645	3750	
56 / 44		57 / 43	59 / 41	58 / 42	
1155		825	925	825	
1500		3500	2000	3500	
13210		13210	22037	13210	
22037		22037	10/100	22037	
5/unlimited		5/unlimited	5/100	5/unlimited	
13210		22037	22037	13210	
Toyota RAV4		Ford Escape	Kia Sportage	Toyota RAV4	
Base 4-cyl		Titanium 4-cyl	SX 4-cyl	Limited V6	
New: 2012		New: 2013	New: 2013	New: 2012	

BMW X3	Ford F-150	Ford F-150
2.0L Turbo 4	**3.5 V6 Turbo**	**5.0L V8**
BMW X3	**Ford F-150**	**Ford F-150**
xDrive28i 4-cyl	**crew cab XLT V6**	**crew cab XLT V8**
New: 2013	New: 2013	New: 2013
2013 xDrive28i 4-door SUV AWD, 2.0-liter 4-cyl. turbo, 8-speed automatic	2011 XLT crew cab 4WD, 3.5-liter V6 turbo, 6-speed automatic	2011 XLT crew cab 4WD, 5.0-liter V8, 6-speed automatic
Goodyear Eagle LS2 Run Flat, size 245/50R18 100V	Goodyear Wrangler SR-A, size P275/65R18 114T	Goodyear Wrangler SR-A, size P275/65R18 114T
4-door SUV	regular cab, extended cab, crew cab	regular cab, extended cab, crew cab
xDrive28i, xDrive35i	XL, STX, XLT, FX2, Lariat, FX4, SVT Raptor, King Ranch, Platinum, Limited	XL, STX, XLT, FX2, Lariat, FX4, SVT Raptor, King Ranch, Platinum, Limited
$38,850 - $43,950	$23,670 - $52,895	$23,670 - $52,895
Price This Car	Price This Car	Price This Car
AWD	Rear or part-time 4WD	Rear or part-time 4WD
2 front, 3 rear	3 front, 3 rear	3 front, 3 rear
2.0-liter 4 turbo (240 hp); 3.0-liter 6 turbo (300 hp)	3.7-liter V6 (302 hp); 5.0-liter V8 (360 hp); 3.5-liter V6 turbo (365 hp); 6.2-liter V8 (411 hp)	3.7-liter V6 (302 hp); 5.0-liter V8 (360 hp); 3.5-liter V6 turbo (365 hp); 6.2-liter V8 (411 hp)
8-speed automatic	6-speed automatic	6-speed automatic
New		
Standard	Standard	Standard
Standard	Standard	Standard
Standard	Standard	Standard
Optional	Varies	Varies
Available	Available	Available
3-point	3-point	3-point
Yes/no	Yes/no	Yes/no
Front	Front	Front
Standard	Standard with rollover	Standard with rollover
Available	Not available	Not available
Good	Good	Good
Good	Good	Good
2.9	3.2	3
7.3	7.7	7.8

4.5	4.5	4.8
15.8	16.1	16.2
91	91	90
1690	1490	1595
53	46.5	47
130	142	142
138	156	155
57	66.5	66.5
43	43	43
4.5	7	7
55.5	66	66
28.5	36	36
4	5.5	5.5
33	NA	NA
23	15	15
16 / 30	41569	41569
NA	19	19
535 gal. / $1,970	790 gal. / $2,760	775 gal. / $2,715
400	395	555
17.7	26	36
Premium	Regular	Regular
21	15	14
28	21	19
183	232	232
74	79	79
65	76	76
111	145	145
40	49	49
7.5	7.5	8.5
4135	5705	5725
49 / 51	56 / 44	56 / 44
905	1435	1405
3000	8200	7700
18354	13210	13210
18354	22037	22037
12/unlimited	5/unlimited	5/unlimited
4/unlimited	22037	22037
BMW X3	Ford F-150	Ford F-150
xDrive28i 4-cyl	crew cab XLT V6	crew cab XLT V8
New: 2013	New: 2013	New: 2013

Message

From: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4D781D1AD595415DB3A4E768C2D2B3FC-SIMON, KARL]
Sent: 2/14/2013 3:46:25 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

pls include me on the emails if you are including my staff on these issues as we are talking. thanks

----- Forwarded by Karl Simon/DC/USEPA/US on 02/14/2013 10:45 AM -----

From: Lisa Snapp/AA/USEPA/US
To: Karl Simon/DC/USEPA/US@EPA
Date: 02/14/2013 10:42 AM
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Forwarded by Lisa Snapp/AA/USEPA/US on 02/14/2013 10:41 AM -----

From: William Charmley/AA/USEPA/US
To: Linc Wehrly/AA/USEPA/US@EPA, Jeff Alson/AA/USEPA/US@EPA, Ed Nam/AA/USEPA/US@EPA, Robin Moran/AA/USEPA/US@EPA, Lisa Snapp/AA/USEPA/US@EPA
Cc: Byron Bunker/AA/USEPA/US@EPA
Date: 02/13/2013 11:44 AM
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Forwarded by William Charmley/AA/USEPA/US on 02/13/2013 11:44 AM -----

From: Justin Cohen/DC/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA
Cc: Christopher Grundler/AA/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA, William Charmley/AA/USEPA/US@EPA
Date: 02/13/2013 11:09 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Deliberative Process / Ex. 5

Thanks!

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

From: Byron Bunker/AA/USEPA/US
To: Christopher Grundler/AA/USEPA/US@EPA
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA, William Charmley/AA/USEPA/US@EPA
Date: 02/13/2013 09:45 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

I can't see where the reporter is getting his Edmunds "estimates." Here is a link to the most relevant Edmunds article that I could find. http://www.edmunds.com/fuel-economy/heres-why-real-world-mpg-doesnt-match-epa-ratings.html

That article says, *"What may be surprising to many is the fact that ever since the EPA modified its testing process and applied those changes to the 2008 model year, its ratings aren't really all that far off the real-world mpg that consumers get. While there are lots of people who cannot under any circumstances get their vehicles to come close to the official ratings, there are also lots who regularly meet or exceed them.*

A special "Your MPG" section of the Department of Energy's Fuel Economy Web site lets people report their own fuel economy averages. No one double-checks the figures, and those reporting might be bragging about good fuel economy. But the self-reported mpg averages for various vehicles, which the site has been compiling for several years, tends to show better fuel economy than the EPA ratings."

Edmunds does have a pre 2008 article that shows an offset for MY2004 vehicles compared to the old label, but that hardly seems relevant now.

I would suggest we follow up with the reporter to find his source for the graphic and the "analyst estimates."

From: Christopher Grundler/AA/USEPA/US
To: William Charmley/AA/USEPA/US@EPA, Byron Bunker/AA/USEPA/US
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA
Date: 02/13/2013 08:51 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

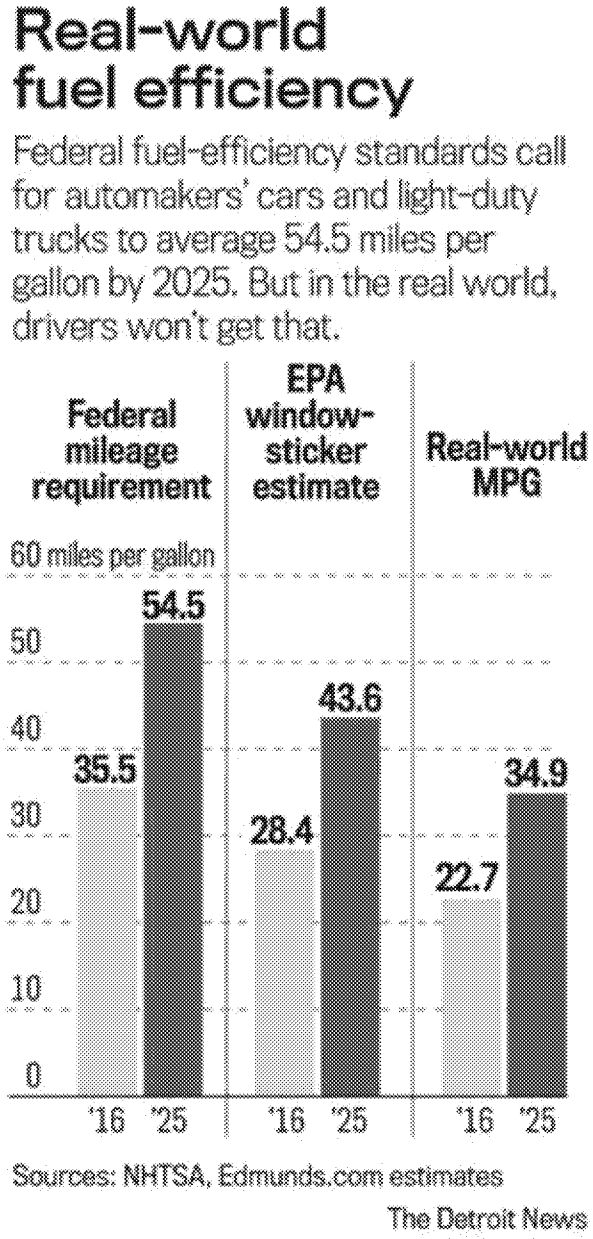
From: William Charmley
To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly
Date: 02/13/2013 07:34 AM CST
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

- By Karl Henkel
- The Detroit News
- 2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry

from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile

calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News: http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Lee, Byungho [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D21C75A6DC80427AACFF67DA54B120F5-LEE, BYUNGHO]
Sent: 2/8/2013 6:35:50 PM
To: Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]
CC: Hula, Aaron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; Neam, Anthony [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=06685dc508a048c5b301f5d6b8b7d745-Neam, Anthony]; Ellies, Ben [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16c8cda908e443d78bbe094ca5501b70-Ellies, Ben]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07a9723e93c43d9843e466f7fac0638-Nevers, Chris]; Ganss, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0a378477e2b342679ffb24bf6ab79a44-Ganss, David]; Nam, Ed [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Cherry, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=17c907940ac14cbab1236dfdfeca8300-Cherry, Jeff]; Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Wolcott, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=745dbf5972b744ab9501c9f916974844-Wolcott, Mark]; Olechiw, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9f564b92ff96459ab606eb66e5892e2d-Olechiw, Michael]; Peavyhouse, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1394f25fc907481389da07306bb3a027-Peavyhouse, Robert]; Moran, Robin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Sherwood, Todd [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F6a5d8decf654ce99b5de0923ccff361-Sherwood, Todd]
Subject: Re: DeliberativeMaterial - follow-up from Tuesday's discussion of recent CR article on turbo/downsizing vehicles
Attachments: Draft CR Desk Statment, 2.5.2013, v3.docx; Edmunds Test Results.xlsx

All,

Attached please find a summary of data findings from Edmunds.com.

While searching, I've observed that Edmunds does not conduct fuel economy tests on many of the vehicles that they review on. Nevertheless, I did find some fuel economy test results that they had conducted for themselves. They are highlighted in yellow, and I copied/pasted their direct quotes in the comments. I also left some quick observations there. Please note that all performance data is their Edmunds' test results.

Please let me know if you have any questions or comments.
Thanks,

Byungho

Edmunds Test Results.xlsx

From: William Charmley/AA/USEPA/US
To: Lisa Snapp/AA/USEPA/US@EPA, Amy Bunker/AA/USEPA/US@EPA, David Ganss/AA/USEPA/US@EPA, Ben Ellies/AA/USEPA/US@EPA, Aaron Hula/AA/USEPA/US@EPA, Jeff Alson/AA/USEPA/US@EPA, Anthony Neam/AA/USEPA/US@EPA, Jeff Cherry/AA/USEPA/US@EPA, Ed Nam/AA/USEPA/US@EPA, Michael Olechiw/AA/USEPA/US@EPA, Robin Moran/AA/USEPA/US@EPA, Byungho Lee/AA/USEPA/US@EPA, Todd Sherwood/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Robert Peavyhouse/AA/USEPA/US@MSO365, Chris Nevers/AA/USEPA/US@EPA, Mark Wolcott/AA/USEPA/US@EPA
Cc: Byron Bunker/AA/USEPA/US@EPA
Date: 02/07/2013 02:34 PM
Subject: DeliberativeMaterial - follow-up from Tuesday's discussion of recent CR article on turbo/downsizing vehicles

Dear all –

Thanks to everyone for participating in the meeting on Tuesday regarding the recent Consumers Report article on downsize/turbocharged vehicles and fuel economy. I did not write down the names of everyone who participated in yesterday's meeting, so please forward this to anyone I have missed

I mentioned yesterday a draft desk statement that several of us worked on earlier in the day on Tuesday. A copy of that draft desk statement is attached. Note that this is what we sent up the chain for potential use by the EPA Press Office – I don't know if this has been modified, and please remember these are talking points in the event EPA's Press Office is contacted on this issue, these are not for all of us to be using if we are contacted. If we get an inquiry, we should send it up to Justin Cohen in the OTAQ immediate office.

I wanted to capture here the range of action items we discussed on Wednesday. The order is just the order we discussed them in, and does not imply any particular priority. I tried to capture who I thought volunteered to work on these various topics – if I got any of this wrong just say so.

For this week, I don't see a need for all of us to get together again. However, if people have an opportunity to send around a status update today or Friday, that would be helpful.

Thanks
Bill

Draft CR Desk Statment, 2.5.20...

1. **Scientific/Engineering Literature Reference List for Turbo/Downsize Technology (Jeff**

Deliberative Process / Ex. 5

Data from Edmunds.com

Acronyms

TC	Turbocharged
NA	Naturally-Aspirated
SS	Engine Start-Stop

Maker		Ford	Ford	Hyundai
Model		2013 Fusion	2013 Fusion	2013 Sonata
Engine	Type	1.6L, 4-cyl, TC w/SS	2.5L, 4-cyl, NA	2.4L, 4-cyl, NA
	Power [hp]	178	175	198
	Torque [lb-ft]	184	175	187
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	23	22	24
	Edmunds			
Highway [mpg]	EPA	36	34	35
	Edmunds			
Combined [mpg]	EPA	28	26	28
	Edmunds			approx. 28
Performance	Time to 60 mph	8.8		7.9
	Quarter Mile			

Maker		Ford	Kia	Honda
Model		2013 Fusion	2013 Optima SX	2013 Accord
Engine	Type	2L, 4-cyl, TC	2L, 4-cyl, TC	3.5L 6-cyl, NA
	Power [hp]	237 @ 5500 rpm	274	278
	Torque [lb-ft]	270 @ 3000 rpm	269	252 @ 4900 rpm
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		AWD	FWD	FWD
City [mpg]	EPA	22	22	20
	Edmunds			
Highway [mpg]	EPA	31	34	34
	Edmunds	22.1		28.7
Combined [mpg]	EPA	25	26	25
	Edmunds		less than 26	
Performance	Time to 60 mph	6.9 sec	6.5	6.1
	Quarter Mile	15.1 sec at 90.6 mph		14.3 sec at 98.1 mph

Maker		Chevrolet	Chevrolet	Dodge
Model		2013 Cruze	2013 Cruze	2013 Dart
Engine	Type	1.8L, 4-cyl, NA	1.4L, 4-cyl, TC	2L, 4-cyl, NA
	Power [hp]	136	138	160
	Torque [lb-ft]	125	148	148
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic

Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	26	24
	Edmunds			
Highway [mpg]	EPA	35	39	34
	Edmunds			
Combined [mpg]	EPA	27	31	27
	Edmunds			
Performance	Time to 60 mph		9.2	
	Quarter Mile		17.1 sec at 80.4 mph	

Maker		Ford	Honda	Mazda
Model		2013 Escape	2013 CR-V	2013 CX-5
Engine	Type	1.6L, 4-cyl, TC	2.4L, 4-cyl, NA	2L, 4-cyl, NA
	Power [hp]	178 @ 5700 rpm	185	155
	Torque [lb-ft]	184 @ 2500 rpm	163	150
Transmission		6-speed Automatic	5-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	23	23	26
	Edmunds			
Highway [mpg]	EPA	33	31	32
	Edmunds		27.7	25.3
Combined [mpg]	EPA	28	26	29
	Edmunds			
Performance	Time to 60 mph		9.4	9.3
	Quarter Mile			

Maker		Ford	Kia	Toyota
Model		2013 Escape	2013 Sportage SX	2012 RAV4
Engine	Type	2L, 4-cyl, TC	2L, 4-cyl, TC	3.5L, 6-cyl, NA
	Power [hp]	240 @ 5500 rpm	260	269
	Torque [lb-ft]	270 @ 3000 rpm	269	246
Transmission		6-speed Automatic	6-speed Automatic	5-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	21	19
	Edmunds			
Highway [mpg]	EPA	30	28	27
	Edmunds			
Combined [mpg]	EPA	25	24	22
	Edmunds	20.5	less than 24	
Performance	Time to 60 mph	7.4	6.5	7.2
	Quarter Mile			

Maker	BMW	BMW
Model	2013 X3	2013 X3

Engine	Type	2L, 4-cyl, TC	3L, 6-cyl, TC
	Power [hp]	240	300
	Torque [lb-ft]	260	300
Transmission		8-speed Automatic	8-speed Automatic
Drivetrain		AWD	AWD
City [mpg]	EPA	21	19
	Edmunds		
Highway [mpg]	EPA	28	26
	Edmunds		
Combined [mpg]	EPA	24	21
	Edmunds		
Performance	Time to 60 mph	6.8	5.6
	Quarter Mile		

Maker		Ford	Ford	Ford
Model		2013 F150	2013 F150	2013 F150
Engine	Type	3.7L, 6-cyl, NA	5.0L, 8-cyl, NA	3.5L, 6-cyl, TC
	Power [hp]	302	360	365
	Torque [lb-ft]	278	380	420
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		RWD	RWD	RWD
City [mpg]	EPA	17	15	16
	Edmunds			
Highway [mpg]	EPA	23	21	22
	Edmunds			
Combined [mpg]	EPA	19	17	18
	Edmunds			
Performance	Time to 60 mph	8.2	7.2	6.5
	Quarter Mile			

Maker		Volkswagen	Volkswagen	Volkswagen
Model		2013 Beetle	2013 Beetle	2012 S60 T5
Engine	Type	2L, 4-cyl, TC	2.5L, 4-cyl, NA	2.5L, 5-cyl, TC
	Power [hp]	200	170	250
	Torque [lb-ft]	207	177	266
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	22	20
	Edmunds			
Highway [mpg]	EPA	30	29	30
	Edmunds			28
Combined [mpg]	EPA	25	25	23
	Edmunds			22.3
Performance	Time to 60 mph	6.6	9	7.2
	Quarter Mile			

Toyota	Honda	Nissan
2013 Camry	2013 Accord	2013 Altima
2.5L, 4-cyl, NA	2.4L, 4-cyl, NA	2.5L, 4-cyl, NA
178	185	182
170	181	180
6-speed Automatic	CVT	CVT
FWD	FWD	FWD
25	27	27
22.5		
35	36	38
28	30	31
	26.3	
8.1	7.8	7.8
	15.8 sec @ 91.2 mph	

Toyota	Nissan
2013 Camry	2013 Altima
3.5L, 6-cyl, NA	3.5L, 6-cyl, NA
268	270 @ 6000 rpm
248	258 @ 4400 rpm
6-speed Automatic	CVT
FWD	FWD
21	22
31	31
25	25
	21.6
6.6	6.2
	14.3 sec at 99.8 mph

This is only a meaningful comparison of Edmunds test data between 4-cyl TC engine and 6-cyl NA engine.
According to Edmunds, Ford Fusion with 2L 4-cyl TC enigne has less performance and fuel economy when compared to Honda Accord with 3.5L 6-cyl

Dodge
2014 Dart
1.4L, 4-cyl, TC
160
184
6-speed Automatic

FWD
27
37
31
22
8.3
16.1 sec at 85.4 mph

Kia	Toyota
2013 Sportage	2013 RAV4
2.4L, 4-cyl, NA	2.5L, 4-cyl, NA
176	176
168	172
6-speed Automatic	6-speed Automatic
FWD	FWD
21	24
30	31
	23.6
25	26
9.4	8.9

Mercedes-Benz
2012 C250
1.8L, 4-cyl, TC
201
299
7-speed Automatic
FWD
21
31
25
25
7.3

Edmunds test data closely matches with EPA estimates.

Cell: F16
Comment: "In our extended test, we averaged 22.5 mpg in mostly city driving, with the best tank returning 27 mpg."

Cell: E20
Comment: "In a long-term test with this engine, we managed to match the Sonata's EPA combined number."

Cell: G20
Comment: "We still recorded 26.3 mpg during 537 miles of combined driving, which handily trumps the 24.1 mpg we recorded over 841 miles in our last test of a 2012 four-cylinder Accord."

Cell: C35
Comment: "We recorded 22.1 mpg over 432 miles spent largely on the highway."

Cell: E35
Comment: "Our test car averaged 28.7 mpg over 191 miles of mostly highway driving."

Cell: D37
Comment: "We struggled to meet those numbers in the course of a year-long test of the Optima SX."

Cell: G37
Comment: "We averaged 21.6 mpg during varied driving, much of which involved winding the engine out to test the limits of the CVT."

Cell: C38
Comment: "These milestones are slower than most other turbocharged four-cylinder or V6-powered family cars. Kia's Optima SX, for example, hit 60 in 6.5 seconds (6.1 with rollout) and completed the quarter in 14.6 seconds at 98.4 mph. Honda's stonk-fast Accord V6 hits 60 in 6.1 seconds (5.7 with rollout) and purrs through the quarter in 14.3 seconds at 98.1 mph."

Cell: F54
Comment: "The 22 mpg we measured during this short test was the result of a single fill and is not statistically significant."

Cell: G69
Comment: "We drove this RAV 835 miles, most at or near freeway speeds. During this period it recorded 23.6 mpg."

Cell: C88
Comment: "Ford's mutant-power 2.0-liter EcoBoost Escape, at 20.5 mpg, didn't do as well."

Cell: D88
Comment: "We've found the Sportage SX struggles to match these numbers in real-world driving."

Cell: E137
Comment: "A kicked-back cruise up the Pacific Coast Highway yielded 28 mpg."

Cell: E139
Comment: "We averaged 22.3 mpg against the EPA's combined estimate of 23 mpg."

Cell: F139
Comment: "We observed 25 mpg in just over 500 miles of combined city and highway driving."

Message

From: Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FB1828FB00AF42FFB68B9E0A71626D95-CHARMLEY, WILLIAM]
Sent: 2/13/2013 2:01:05 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Moran, Robin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Nam, Ed [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A2653f1ddd59470688ba557dd84d9690-Nam, Ed]
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

I wanted ed, jeff and robin to see this

----- Original Message -----
From: Christopher Grundler
Sent: 02/13/2013 08:51 AM EST
To: William Charmley; Byron Bunker
Cc: Justin Cohen; Lori Stewart
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

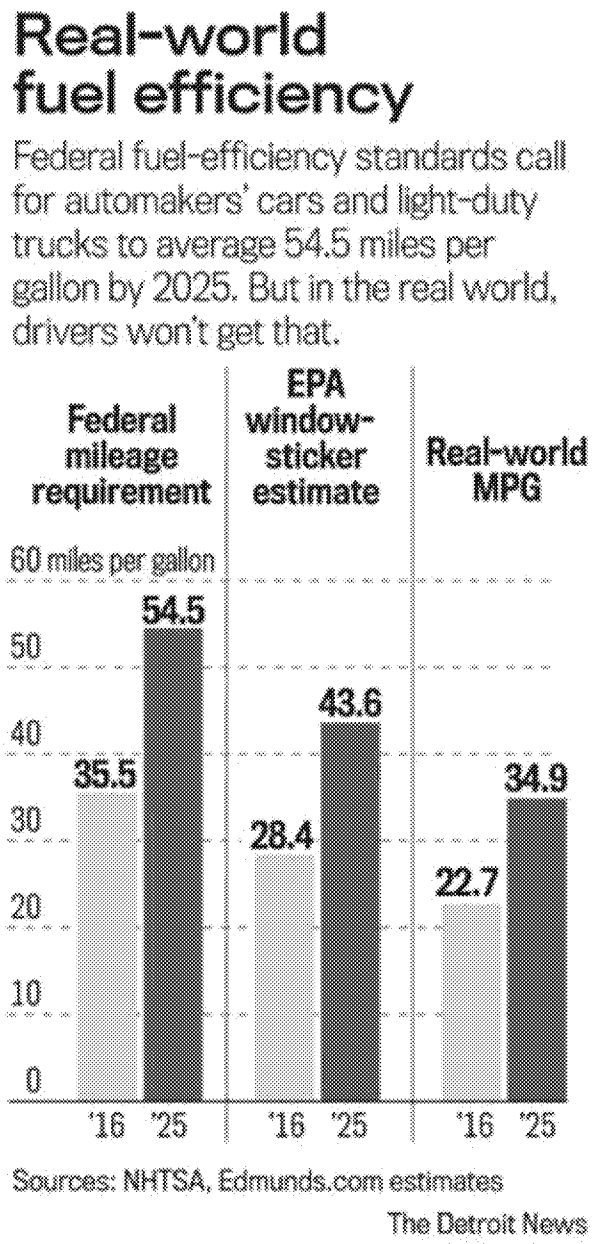
From: William Charmley
To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly
Date: 02/13/2013 07:34 AM CST
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

- By Karl Henkel
- The Detroit News
- 2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News: http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

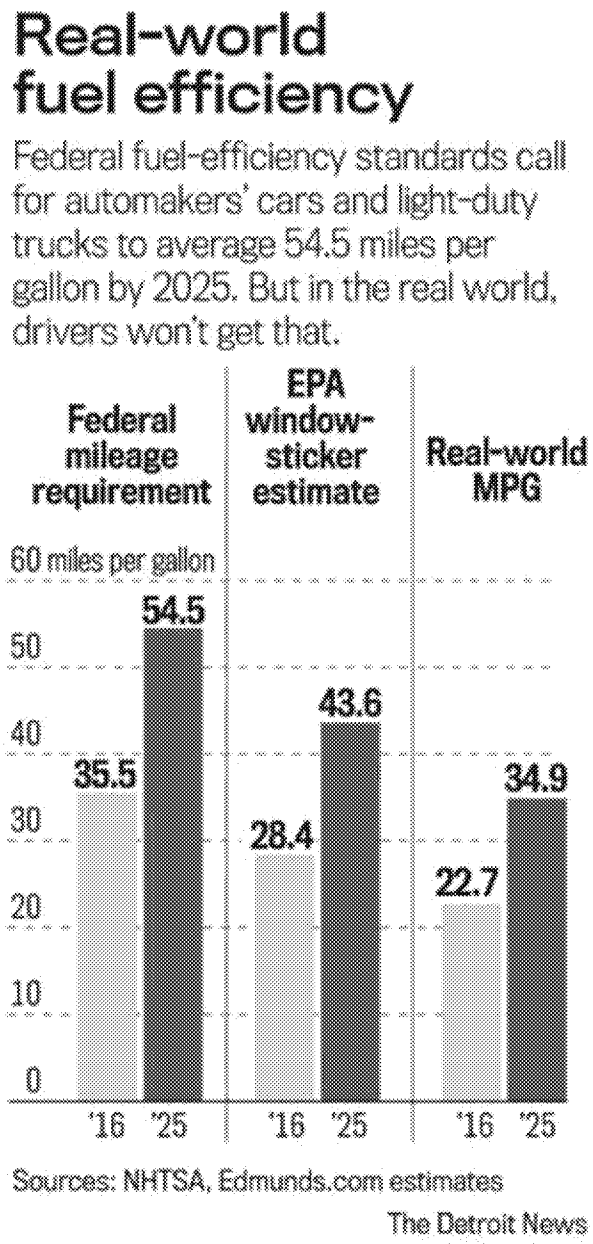
From: Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FB1828FB00AF42FFB68B9E0A71626D95-CHARMLEY, WILLIAM]
Sent: 2/13/2013 1:34:50 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6ec0000a0259452fa0f4d1c390a96859-jucohen]; Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

- By Karl Henkel
- The Detroit News
- 2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from

the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News: http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
Sent: 1/11/2013 2:07:46 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: Fw: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG
Attachments: OAR-12-002-0859.(Citizen Name / Ex. 6 Hyundai Sonata.mpg.pdf; OAR-12-002-0859 Hyunda FE Complaint.docx

Here is my stab at this one. Let me know what you think.

OAR-12-002-0859
Hyunda FE Com...

Holly A. Pugliese
Office of Transportation and Air Quality
US EPA
734.214.4288
pugliese.holly@epa.gov
----- Forwarded by Holly Pugliese/AA/USEPA/US on 01/11/2013 09:06 AM -----

From: Kay Larsen/AA/USEPA/US

To: Holly Pugliese/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/03/2013 01:16 PM
Subject: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG

Hi,

Please prepare a response for this control, for the signatue of Byron.

Due to me by: Tuesday, January 15, 2013

thanks,
Kay

OAR-12-002-085...
Sonata.mpg.pdf

----- Forwarded by Kay Larsen/AA/USEPA/US on 01/03/2013 01:14 PM -----

From: cmsadmin@epa.gov

To: Kay Larsen/AA/USEPA/US@EPA
Date: 01/02/2013 03:15 PM
Subject: CMS New Assignment - Tanya Meekins - OAR-12-002-0859

Control OAR-12-002-0859 has been assigned to your office on 1/2/13 3:15 PM by Tanya Meekins. Please go to the CMS webpage to view the details of the control.

Summary Information -
Control Number: OAR-12-002-0859
Control Subject: I am writing in relation to the articles in the Washington Post in early November 2012 relating to Hyundai (and Kia) vehicles not coming anywhere near the mileage advertised in the EPA estimated m.p.g. sticker on all new vehicles.
From: Citizen Name / Ex. 6

Note: This Email was automatically generated. Please do not attempt to respond to it. You can access this control at https://cms.epa.gov/cms. Questions or comments concerning CMS should be directed to CMS Support at 202-564-4985 or CMS Information@epa.gov.

Citizen Name / Ex. 6

Dear Citizen Name / Ex. 6

Thank you for your recent inquiry to Gina McCarthy regarding your 2012 Hyundai Sonata. Gina has asked me to respond to your letter on her behalf since the investigation is being conducted within our division.

I am sorry to learn of your issues with poor fuel economy and appreciate you taking the time to share your experience with us. In your inquiry, you suggest that your vehicle should be included in the fuel economy relabeling program. The vehicles that have been relabeled were chosen because Hyundai identified specific errors that were made in their fuel economy testing that can be traced to the particular vehicle models and model years. While it is certainly possible that other errors were made on other Hyundai makes and models, we do not have evidence at this time to suggest that this is the case. We are using letters like yours to help inform our ongoing investigations.

You also indicated in your letter that the salesperson advised you that how a vehicle is driven can impact fuel economy and that you found this to be odd. In fact, how a vehicle is driven can impact the fuel economy and there are things that you can do yourself to help improve your fuel economy no matter the underlying issue. Small maintenance changes as simple as ensuring that your tires are properly inflated can make a surprising difference. More information about the best ways to achieve good fuel economy can be found at the following website. http://www.fueleconomy.gov/feg/drive.shtml

Commented [n1]: He states in his letter that he is a good driver and doesn't do the things that lead to poor mileage so I'm not sure if it helps to add this or not.

Lastly, you ask what options are available to you since your car is not on the list of vehicles eligible for the debit card program. Consumer protection relief such as vehicle buy backs fall outside of EPA's authority under the Clean Air Act. Information about your rights under various consumer protection statutes can be better answered through your local Better Business Bureau or other consumer protection organizations.

I hope this answers your questions. If you have any additional questions, please contact Holly Pugliese of my staff at pugliese.holly@epa.gov.

Sincerely,

Byron Bunker, Director
Compliance Division
Office of Transportation and Air Quality

Message

From: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3BE58C2CC8545D88CF74F3896D4460F-GRUNDLER, CHRISTOPHER]
Sent: 2/13/2013 3:02:03 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6ec0000a0259452fa0f4d1c390a96859-jucohen]; Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]
Subject: Re: Det News article on MPG--with a mention of GPM at the end

We need to be doing more to get the facts out. This is taking a life of its own. The chart with the story combined with the edmunds spokesperson are really bad
Sent by EPA Wireless E-Mail Services

From: Byron Bunker
To: Christopher Grundler
Cc: Justin Cohen; Lori Stewart; William Charmley
Date: 02/13/2013 08:45 AM CST
Subject: Re: Det News article on MPG--with a mention of GPM at the end

I can't see where the reporter is getting his Edmunds "estimates." Here is a link to the most relevant Edmunds article that I could find. http://www.edmunds.com/fuel-economy/heres-why-real-world-mpg-doesnt-match-epa-ratings.html

That article says, *"What may be surprising to many is the fact that ever since the EPA modified its testing process and applied those changes to the 2008 model year, its ratings aren't really all that far off the real-world mpg that consumers get. While there are lots of people who cannot under any circumstances get their vehicles to come close to the official ratings, there are also lots who regularly meet or exceed them.*

A special "Your MPG" section of the Department of Energy's Fuel Economy Web site lets people report their own fuel economy averages. No one double-checks the figures, and those reporting might be bragging about good fuel economy. But the self-reported mpg averages for various vehicles, which the site has been compiling for several years, tends to show better fuel economy than the EPA ratings."

Edmunds does have a pre 2008 article that shows an offset for MY2004 vehicles compared to the old label, but that hardly seems relevant now.

I would suggest we follow up with the reporter to find his source for the graphic and the "analyst estimates."

From: Christopher Grundler/AA/USEPA/US
To: William Charmley/AA/USEPA/US@EPA, Byron Bunker/AA/USEPA/US
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA
Date: 02/13/2013 08:51 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

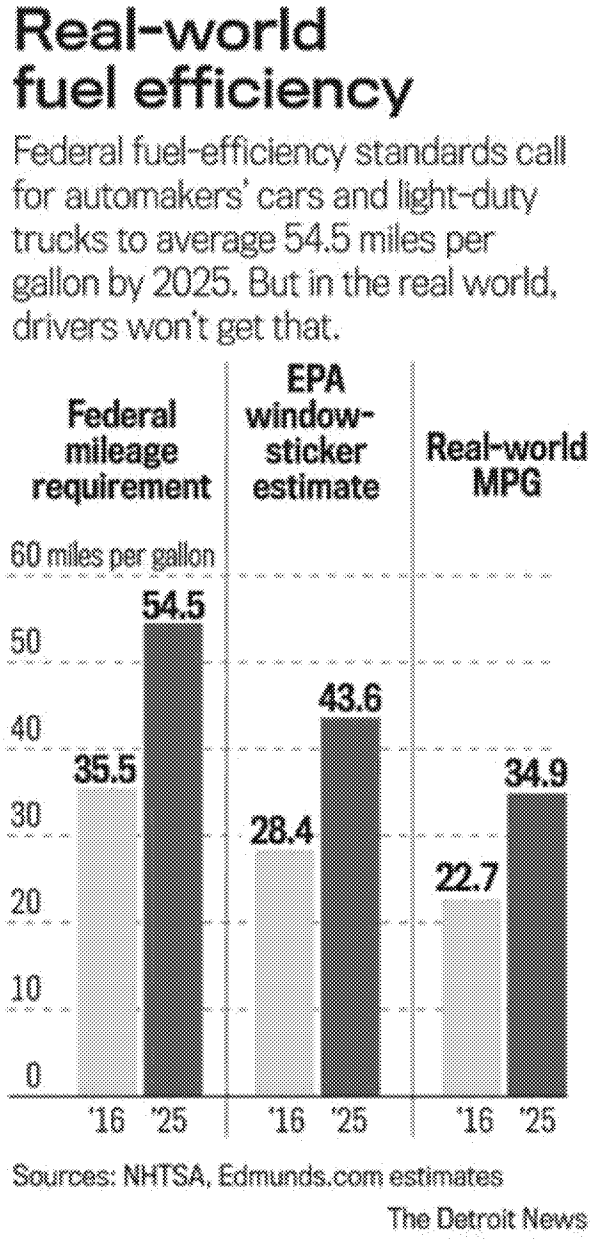
From: William Charmley
To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly
Date: 02/13/2013 07:34 AM CST
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

- By Karl Henkel
- The Detroit News
- 2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from

the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to

be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News: http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015F99F1C4082BB7AD8063B62FB9D-ZAREMSKI, SARA]
Sent: 2/25/2013 7:24:59 PM
To: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Bunker, Amy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07a9723e93c43d9843e466f7fac0638-Nevers, Chris]; Wolcott, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=745dbf5972b744ab9501c9f916974844-Wolcott, Mark]; French, Roberts [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0c2bb2bd2583415da682f78cbe2154bc-French, Roberts]; Yang, Ching-Shih [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fce52f946ba64110bd742fbe2d0699db-Yang, Ching-Shih]
Subject: FW: Fuel Economy Data Follow up
Attachments: MyMPG_Diary-and-MPG_clean_2009-2013-5 8 and 10 graph.pdf

Per Karl's request, attached is the analyses with at least 5, 8 and 10 vehicle model/model year combinations reporting at MyMPG. As we perform more analysis, we will keep this group informed.

Sara

From: Yang, Ching-Shih
Sent: Monday, February 25, 2013 11:50 AM
To: Zaremski, Sara; French, Roberts; Wolcott, Mark
Subject: RE: Fuel Economy Data Follow up

Per our discussion. Latest figures are attached.

-Ching-shih

From: Zaremski, Sara
Sent: Monday, February 25, 2013 11:08 AM
To: Yang, Ching-Shih; French, Roberts; Wolcott, Mark
Subject: RE: Fuel Economy Data Follow up

Can you please add the total number of vehicles each graph represents to the graphs themselves?

Thanks,
sara

From: Yang, Ching-Shih
Sent: Monday, February 25, 2013 10:53 AM
To: Zaremski, Sara; French, Roberts; Wolcott, Mark
Subject: RE: Fuel Economy Data Follow up

Attached is a PDF with the graphs and tables you've requested.

Please let me know if anything else is needed, Ching-shih

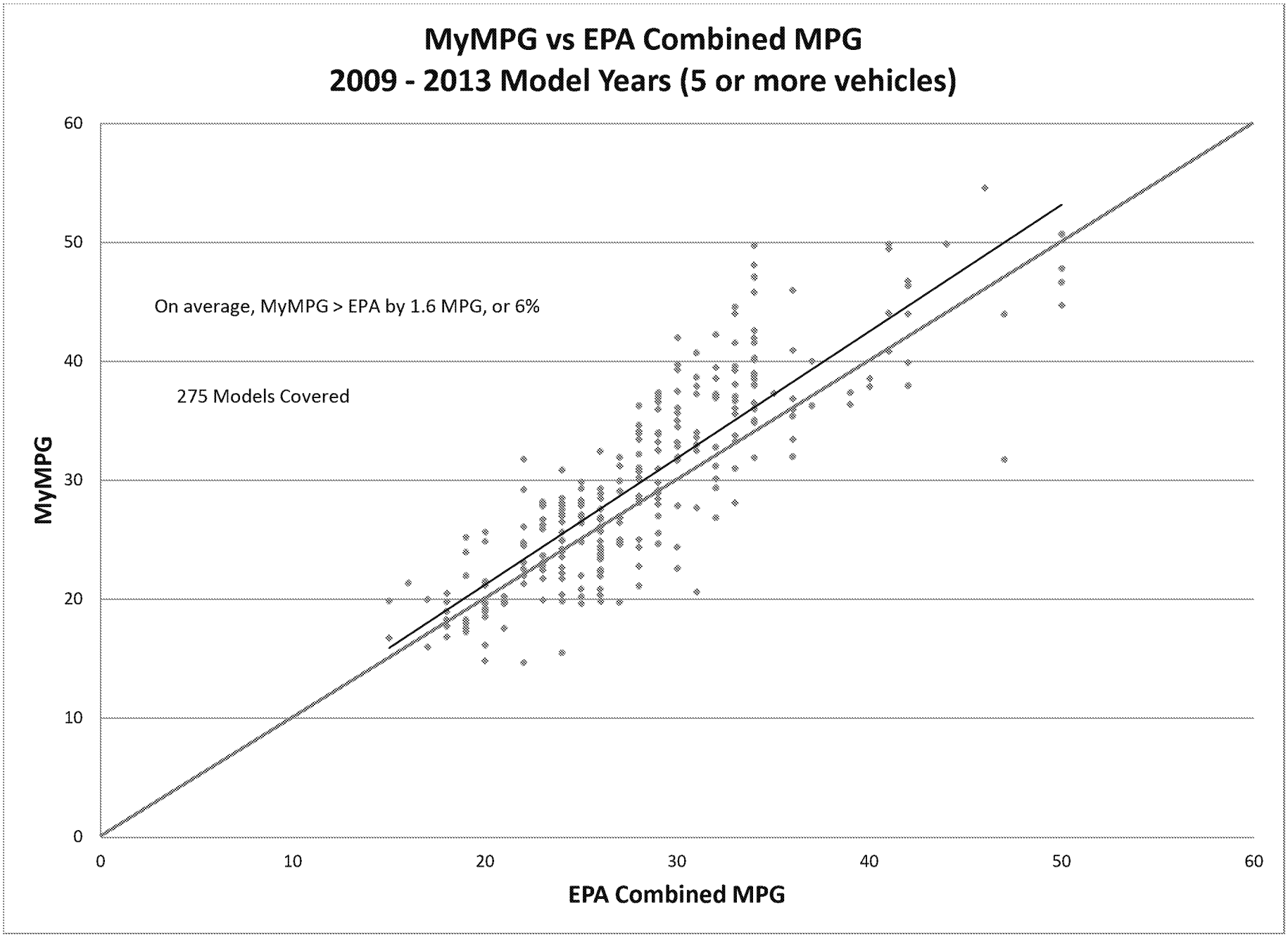
From: Zaremski, Sara
Sent: Friday, February 22, 2013 5:02 PM
To: French, Roberts; Yang, Ching-Shih; Wolcott, Mark
Subject: Fuel Economy Data Follow up

Rob, Mark, Ching-Shih,

Based on our meeting late Thursday with Chris Grundler, looks like we will begin working on a technical paper regarding the data analysis that you have been working on. We can talk more on Monday once I have had a chance to touch base with Byron as to what our next steps should be.

In the meantime, can you please re-run the analysis of looking at unique vehicle make/model/model year combinations? We looked at those with at least 8 and Karl Simon has requested that we re-run the analysis for those with at least 5 and those with at least 10. I would like both the graphs and the vehicles included lists for each run. Once we have those we can share with Byron and Karl and the group. Hopefully this can be done Monday morning.

Thanks,
Sara


MyMPG vs EPA Combined MPG
2009 - 2013 Model Years (5 or more vehicles)
On average, MyMPG > EPA by 1.6 MPG, or 6%
275 Models Covered
MyMPG
EPA Combined MPG
0
10
20
30
40
50
60

5 or more vehicles list (275 Models)			
Vehicle Description	Number of Vehicles	My MPG - EPA Cmb	PCT Diff
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13	10.8359962	32%
2011 Volkswagen Jetta 2L 4cyl Manual 6-spd	5	10.3971598	31%
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18	9.47439998	28%
2013 Volkswagen Passat 2L 4cyl Auto(AM-S6)	6	9.20222427	27%
2011 Volkswagen Golf 2L 4cyl Manual 6-spd	7	8.68332994	26%
2011 Ford Fiesta 1.6L 4cyl Manual 5-spd	9	8.12050605	25%
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13	7.89602707	24%
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17	7.85406828	24%
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19	7.74131614	19%
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11	7.73038744	23%
2012 Ford Focus FWD 2L 4cyl Manual 5-spd	7	7.65818324	26%
2012 Hyundai Veloster 1.6L 4cyl Manual 6-spd	5	7.50150623	24%
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23	7.2354991	25%
2010 Toyota Corolla 1.8L 4cyl Manual 5-spd	7	7.09637166	24%
2010 Ford Fusion FWD 2.5L 4cyl Manual 6-spd	6	7.03426258	29%
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11	6.98779541	21%
2009 Subaru Impreza AWD 2.5L 4cyl Automatic (S4)	5	6.95080641	32%
2009 Chevrolet Cobalt XFE 2.2L 4cyl Manual 5-spd	7	6.92919206	23%
2011 Honda Fit 1.5L 4cyl Manual 5-spd	5	6.84668765	24%
2012 Honda Fit 1.5L 4cyl Manual 5-spd	6	6.82397532	24%
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16	6.69086025	20%
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22	6.63987825	20%
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31	6.48508292	20%
2011 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	5	6.27978892	18%
2011 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	9	5.98860097	15%
2011 Honda Fit 1.5L 4cyl Automatic (S5)	6	5.93015602	20%
2012 Volkswagen Jetta 2L 4cyl Automatic (S6)	8	5.91095376	17%
2012 Toyota Yaris 1.5L 4cyl Manual 5-spd	6	5.84042609	18%
2010 Honda Fit 1.5L 4cyl Manual 5-spd	8	5.7596439	20%
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16	5.73667947	17%
2009 Pontiac G5 XFE 2.2L 4cyl Manual 5-spd	9	5.53744601	18%
2009 Ford Fusion FWD 2.3L 4cyl Automatic 5-spd	8	5.37902272	23%
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10	5.3709755	16%
2010 Volkswagen Golf 2L 4cyl Automatic (S6)	5	5.35467602	16%
2012 Volkswagen Golf 2L 4cyl Manual 6-spd	8	5.35077681	16%
2010 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	5	5.34919937	24%
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27	5.288576	13%
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17	5.23360856	21%
2009 Honda Civic 2L 4cyl Manual 6-spd	9	5.18867082	22%
2011 smart fortwo coupe 1L 3cyl Auto(AM5)	5	5.17960988	14%
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18	5.04038338	15%
2010 BMW 335d 3L 6cyl Automatic (S6)	5	4.74765242	18%
2012 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	6	4.73741258	14%
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12	4.60400123	16%
2012 Chevrolet Cruze Eco 1.4L 4cyl Automatic 6-spd	5	4.59381269	15%
2011 Mazda 2 1.5L 4cyl Manual 5-spd	7	4.46851379	14%
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13	4.3473404	14%
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13	4.33632306	16%
2010 Toyota Yaris 1.5L 4cyl Manual 5-spd	5	4.3335718	14%
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18	4.32940398	14%
2012 Honda Civic Hybrid 1.5L 4cyl Automatic (variable gear ratios)	6	4.26726557	10%
2010 Toyota Yaris 1.5L 4cyl Automatic 4-spd	7	4.15530033	13%

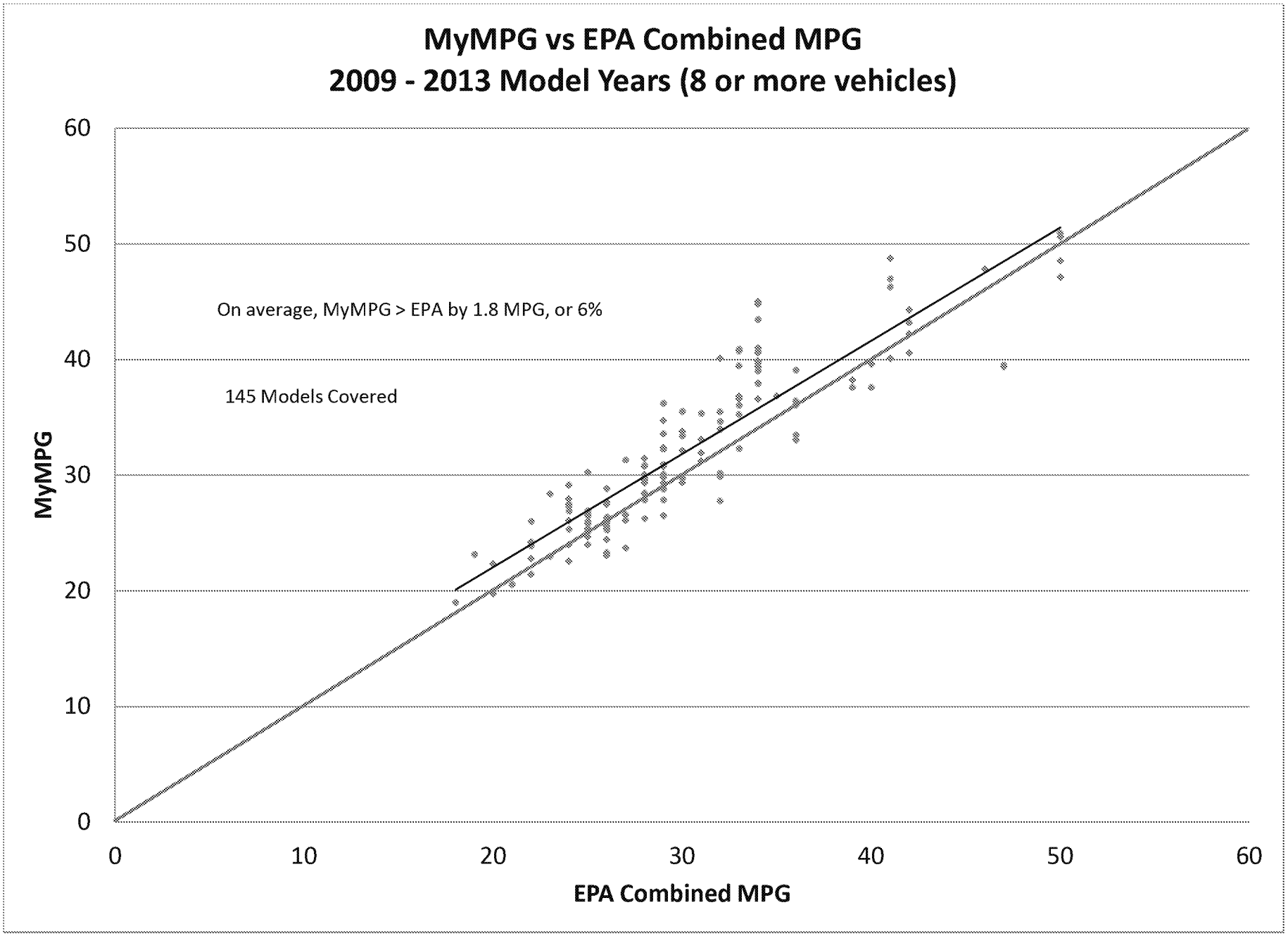
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10	4.15301387	22%
2009 Mazda Speed 3 2.3L 4cyl Manual 6-spd	6	4.09812935	20%
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11	4.00597246	18%
2010 Mazda 3 2.5L 4cyl Manual 6-spd	9	3.96463045	17%
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16	3.94517332	12%
2010 Mazda 5 2.3L 4cyl Automatic (S5)	5	3.92920098	17%
2009 Mercedes-Benz ML320 Bluetec 3L 6cyl Automatic 7-spd	6	3.92916242	20%
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13	3.90897256	11%
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17	3.86850802	12%
2009 Toyota Matrix 1.8L 4cyl Manual 5-spd	5	3.85017138	14%
2009 Mazda 3 2L 4cyl Automatic (S4)	5	3.83768331	15%
2009 Toyota Corolla 1.8L 4cyl Manual 5-spd	9	3.81029505	13%
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11	3.79107125	11%
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32	3.78632742	13%
2010 Ford Escape FWD 2.5L 4cyl Automatic 6-spd	6	3.75362251	16%
2009 Pontiac Vibe 1.8L 4cyl Manual 5-spd	6	3.70772818	13%
2012 Chevrolet Sonic 5 1.4L 4cyl Manual 6-spd	8	3.60608637	11%
2009 Hyundai Sonata 3.3L 6cyl Automatic 5-spd	5	3.54905309	16%
2012 Volkswagen Passat 2.5L 5cyl Automatic (S6)	5	3.53434203	14%
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14	3.53416658	15%
2011 Jeep Wrangler 4WD 3.8L 6cyl Manual 6-spd	6	3.53337812	22%
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10	3.51034911	11%
2009 Nissan Versa 1.8L 4cyl Manual 6-spd	8	3.48015844	12%
2010 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	5	3.47615171	10%
2012 Hyundai Veloster 1.6L 4cyl Auto(AM6)	7	3.46055287	12%
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50	3.42013601	11%
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11	3.40952873	12%
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15	3.32328501	14%
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29	3.27305091	11%
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14	3.07964527	9%
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16	3.04166219	9%
2009 Scion xB 2.4L 4cyl Automatic (S4)	8	2.90149303	12%
2009 Ford Flex FWD 3.5L 6cyl Automatic 6-spd	5	2.86935347	15%
2009 Pontiac Vibe 1.8L 4cyl Automatic 4-spd	8	2.84876383	10%
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28	2.83887968	11%
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12	2.79545072	10%
2009 Mazda 6 2.5L 4cyl Automatic (S5)	7	2.7587999	11%
2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11	2.62256851	8%
2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29	2.59074545	8%
2011 Honda CR-Z 1.5L 4cyl Auto(AV-S7)	6	2.35961635	6%
2009 Honda Odyssey 3.5L 6cyl Automatic 5-spd	9	2.32898221	12%
2012 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	9	2.28876487	5%
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10	2.28051303	7%
2011 Ford Fiesta SFE 1.6L 4cyl Auto(AM6)	5	2.26787075	7%
2009 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	9	2.2430115	10%
2009 Dodge Ram 1500 Pickup 4WD 5.7L 8cyl Automatic 5-spd	6	2.11454178	14%
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13	2.10368798	7%
2009 Toyota RAV4 2WD 2.5L 4cyl Automatic 4-spd	6	2.10051063	9%
2009 Ford Escape FWD 2.5L 4cyl Automatic 6-spd	7	2.08749826	9%
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11	2.08432074	7%
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20	2.0755682	7%
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16	2.07114228	9%
2013 Mazda CX-5 2WD 2L 4cyl Automatic (S6)	5	2.05963844	7%
2009 Ford Fusion FWD 3L 6cyl Automatic 6-spd	6	2.02184315	10%
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37	1.95946534	6%

2009 Hyundai Accent 1.6L 4cyl Manual 5-spd	8	1.91861477	7%
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10	1.911876	8%
2012 Dodge Ram 1500 Pickup 4WD 5.7L 8cyl Automatic 6-spd	5	1.88196914	13%
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14	1.87860055	9%
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10	1.87186766	5%
2010 Volkswagen GTI 2L 4cyl Manual 6-spd	5	1.84427017	7%
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33	1.82700129	4%
2010 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.80135815	6%
2009 Nissan Sentra FE 2L 4cyl Automatic (variable gear ratios)	7	1.78314054	6%
2009 Toyota RAV4 4WD 3.5L 6cyl Automatic 5-spd	6	1.77314219	8%
2009 Ford Focus FWD 2L 4cyl Manual 5-spd	8	1.77230417	6%
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32	1.759605	6%
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12	1.70290363	7%
2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19	1.7025693	6%
2009 Acura TSX 2.4L 4cyl Automatic (S5)	8	1.64884589	7%
2009 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.56361186	6%
2009 Ford Escape Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	7	1.55221042	5%
2011 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	9	1.50093362	6%
2010 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	9	1.47520013	6%
2010 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	5	1.45352574	6%
2009 Volkswagen Jetta 2.5L 5cyl Automatic (S6)	5	1.42736241	6%
2009 Ford Escape Hybrid 4WD 2.5L 4cyl Automatic (variable gear ratios)	7	1.41113832	5%
2011 Nissan Altima 2.5L 4cyl Auto(AV-S6)	5	1.36431421	5%
2009 Honda Accord 3.5L 6cyl Automatic 5-spd	5	1.34226545	6%
2012 Ford Fiesta FWD 1.6L 4cyl Auto(AM6)	7	1.33371392	4%
2010 Kia Forte 2L 4cyl Automatic 4-spd	12	1.32079742	5%
2009 Nissan Rogue FWD 2.5L 4cyl Automatic (variable gear ratios)	5	1.31935384	5%
2010 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	8	1.31022571	5%
2009 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	6	1.30180522	6%
2010 Mazda 3 2L 4cyl Manual 5-spd	5	1.29307562	5%
2012 Hyundai Accent 1.6L 4cyl Manual 6-spd	5	1.23741827	4%
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16	1.22591045	3%
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14	1.13129183	4%
2009 Dodge Journey 2WD 3.5L 6cyl Automatic 6-spd	5	1.03556844	6%
2011 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	6	0.99902324	4%
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10	0.99744403	4%
2010 Honda Accord 3.5L 6cyl Automatic 5-spd	5	0.98866652	4%
2009 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	8	0.97900351	5%
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10	0.96744793	3%
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27	0.96406213	2%
2010 Audi Q5 3.2L 6cyl Automatic (S6)	6	0.88784483	4%
2010 Honda Pilot 4WD 3.5L 6cyl Automatic 5-spd	6	0.85748527	5%
2010 Toyota RAV4 2WD 2.5L 4cyl Automatic 4-spd	6	0.8328575	3%
2010 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	5	0.82680724	5%
2011 Toyota Avalon 3.5L 6cyl Automatic (S6)	5	0.82244484	4%
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20	0.81669919	3%
2012 Ford Mustang 5L 8cyl Manual 6-spd	7	0.8132644	4%
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23	0.78965715	3%
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15	0.78235385	4%
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22	0.61180805	1%
2009 Toyota Camry 3.5L 6cyl Automatic (S6)	6	0.5469524	2%
2010 Lexus RX 450h AWD 3.5L 6cyl Automatic (AV-S6)	5	0.54665537	2%
2009 Nissan Altima Hybrid 2.5L 4cyl Automatic (variable gear ratios)	7	0.53151728	2%
2012 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	8	0.46970274	2%
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10	0.45306732	1%

2010 Nissan Versa 1.8L 4cyl Automatic 4-spd	5	0.43691325	2%
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11	0.42365893	2%
2010 Kia Soul 2L 4cyl Automatic 4-spd	11	0.39400946	2%
2011 Ford Focus FWD 2L 4cyl Automatic 4-spd	9	0.35068512	1%
2010 Mazda 3 2L 4cyl Automatic (S5)	5	0.33282017	1%
2010 Honda Odyssey 3.5L 6cyl Automatic 5-spd	7	0.30861241	2%
2010 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	7	0.30198111	1%
2009 Nissan Versa 1.8L 4cyl Automatic (variable gear ratios)	9	0.29285414	1%
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18	0.26045233	1%
2009 Mazda 5 2.3L 4cyl Automatic (S5)	7	0.24150164	1%
2011 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	7	0.23611545	1%
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21	0.22093632	1%
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19	0.21105427	1%
2011 Volkswagen GTI 2L 4cyl Automatic (S6)	7	0.1942942	1%
2011 Nissan Rogue AWD 2.5L 4cyl Automatic (variable gear ratios)	6	0.1861964	1%
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11	0.14935151	1%
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23	0.08277235	0%
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14	0.05899925	0%
2010 Toyota RAV4 4WD 3.5L 6cyl Automatic 5-spd	6	0.0378994	0%
2013 Honda Accord 2.4L 4cyl Automatic (variable gear ratios)	5	0.02547013	0%
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16	0.01988295	0%
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14	-0.0263747	0%
2009 Saturn Aura 2.4L 4cyl Automatic (S6)	6	-0.0328051	0%
2011 Hyundai Sonata 2L 4cyl Automatic 6-spd	5	-0.0331316	0%
2010 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	8	-0.0520361	0%
2010 Toyota Highlander 4WD 3.5L 6cyl Automatic (S5)	5	-0.0647154	0%
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12	-0.075064	0%
2011 Toyota RAV4 2WD 2.5L 4cyl Automatic 4-spd	5	-0.0888207	0%
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10	-0.0924664	0%
2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15	-0.1431904	-1%
2009 Nissan Cube 1.8L 4cyl Automatic (variable gear ratios)	5	-0.1473114	-1%
2011 Honda Pilot 4WD 3.5L 6cyl Automatic 5-spd	6	-0.1544116	-1%
2011 Kia Forte 2L 4cyl Automatic 6-spd	9	-0.2099745	-1%
2011 Ford F150 Pickup 4WD 3.5L 6cyl Automatic (S6)	5	-0.2236471	-1%
2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10	-0.2445437	-1%
2012 Subaru Impreza AWD 2L 4cyl Automatic (variable gear ratios)	8	-0.2698279	-1%
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19	-0.300604	-1%
2009 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	7	-0.327913	-1%
2009 Chevrolet Cobalt 2.2L 4cyl Automatic 4-spd	5	-0.3357992	-1%
2009 Kia Rondo 2.4L 4cyl Automatic 4-spd	6	-0.348763	-2%
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11	-0.3504924	-1%
2011 Buick LaCrosse 3.6L 6cyl Automatic (S6)	5	-0.3758494	-2%
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15	-0.3925753	-1%
2012 Scion iQ 1.3L 4cyl Automatic (variable gear ratios)	5	-0.3969309	-1%
2011 Honda Accord 2.4L 4cyl Automatic 5-spd	8	-0.4018365	-1%
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13	-0.4251736	-2%
2009 Chevrolet Traverse FWD 3.6L 6cyl Automatic 6-spd	6	-0.4837343	-3%
2009 Mazda 6 3.7L 6cyl Automatic (S6)	5	-0.5372499	-3%
2010 Chevrolet Camaro 3.6L 6cyl Automatic (S6)	8	-0.5434287	-2%
2011 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	9	-0.5647002	-2%
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear r	14	-0.608674	-2%
2010 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	5	-0.6677408	-3%
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10	-0.7141793	-2%
2012 Ford Focus FWD 2L 4cyl Auto(AM6)	6	-0.7262853	-2%
2009 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	8	-0.7373965	-3%

2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49	-0.7441489	-2%
2012 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	6	-0.7525832	-3%
2012 Jeep Wrangler Unlimited 4WD 3.6L 6cyl Automatic 5-spd	5	-0.8462784	-5%
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10	-0.8697651	-3%
2009 Buick Enclave FWD 3.6L 6cyl Automatic 6-spd	5	-0.8743077	-5%
2011 Kia Optima 2.4L 4cyl Automatic 6-spd	9	-0.883434	-3%
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10	-0.9113441	-2%
2012 Kia Soul 2L 4cyl Automatic 6-spd	10	-0.9862214	-4%
2010 Mazda CX-9 4WD 3.7L 6cyl Automatic (S6)	6	-1.0148495	-6%
2012 Kia Optima 2L 4cyl Automatic 6-spd	5	-1.0529025	-4%
2009 Honda Accord Coupe 3.5L 6cyl Automatic 5-spd	5	-1.0593964	-5%
2012 Honda Odyssey 3.5L 6cyl Automatic 5-spd	5	-1.071294	-5%
2010 Hyundai Accent 1.6L 4cyl Automatic 4-spd	6	-1.1271801	-4%
2012 Kia Forte 2L 4cyl Automatic 6-spd	8	-1.1371005	-4%
2013 Nissan Altima 2.5L 4cyl Auto(AV-S6)	5	-1.1664027	-4%
2011 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	6	-1.2006685	-3%
2010 Chevrolet Cobalt Sedan 2.2L 4cyl Automatic 4-spd	5	-1.2524108	-5%
2011 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	9	-1.3848271	-4%
2013 Mazda CX-5 4WD 2L 4cyl Automatic (S6)	7	-1.3922378	-5%
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10	-1.4221507	-3%
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40	-1.4256669	-3%
2012 Volkswagen Golf 2L 4cyl Automatic (S6)	6	-1.4283835	-4%
2011 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	8	-1.4385668	-6%
2009 GMC Acadia AWD 3.6L 6cyl Automatic 6-spd	5	-1.495265	-8%
2013 Subaru Outback AWD 2.5L 4cyl Automatic (variable gear ratios)	7	-1.5503734	-6%
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16	-1.552495	-6%
2009 Chevrolet Aveo 5 1.6L 4cyl Manual 5-spd	5	-1.5923972	-5%
2011 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	8	-1.7583387	-6%
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28	-1.8275592	-6%
2010 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	5	-1.9022819	-7%
2010 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	7	-1.9816763	-8%
2011 Ford Mustang 5L 8cyl Manual 6-spd	6	-2.0367272	-10%
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16	-2.0734633	-6%
2009 Saturn Vue Hybrid 2.4L 4cyl Automatic 4-spd	6	-2.0771585	-7%
2012 Kia Optima 2.4L 4cyl Automatic 6-spd	5	-2.1247923	-8%
2013 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	6	-2.1309852	-8%
2013 Lexus ES 300h 2.5L 4cyl Auto(AV-S6)	8	-2.3895403	-6%
2009 Hyundai Accent 1.6L 4cyl Automatic 4-spd	9	-2.5035568	-9%
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23	-2.5279699	-7%
2009 Nissan Rogue AWD 2.5L 4cyl Automatic (variable gear ratios)	6	-2.5526701	-11%
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21	-2.6541256	-10%
2013 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	5	-2.6551819	-11%
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174	-2.8503708	-6%
2011 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	8	-2.8966134	-11%
2012 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	9	-2.9621783	-8%
2012 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	7	-2.9799163	-11%
2012 Nissan Altima 2.5L 4cyl Auto(AV-S6)	6	-3.0189513	-11%
2011 Buick Enclave FWD 3.6L 6cyl Automatic 6-spd	5	-3.1086205	-16%
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10	-3.2923996	-12%
2011 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	6	-3.379873	-15%
2010 Nissan Maxima 3.5L 6cyl Automatic (AV-S6)	5	-3.464551	-16%
2011 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	7	-3.4669043	-10%
2011 Nissan Juke AWD 1.6L 4cyl Auto(AV-S6)	6	-3.5006979	-13%
2013 Ford Escape FWD 2L 4cyl Automatic (S6)	5	-3.7460226	-15%
2012 Kia Sorento 4WD 2.4L 4cyl Automatic 6-spd	5	-3.7950926	-17%

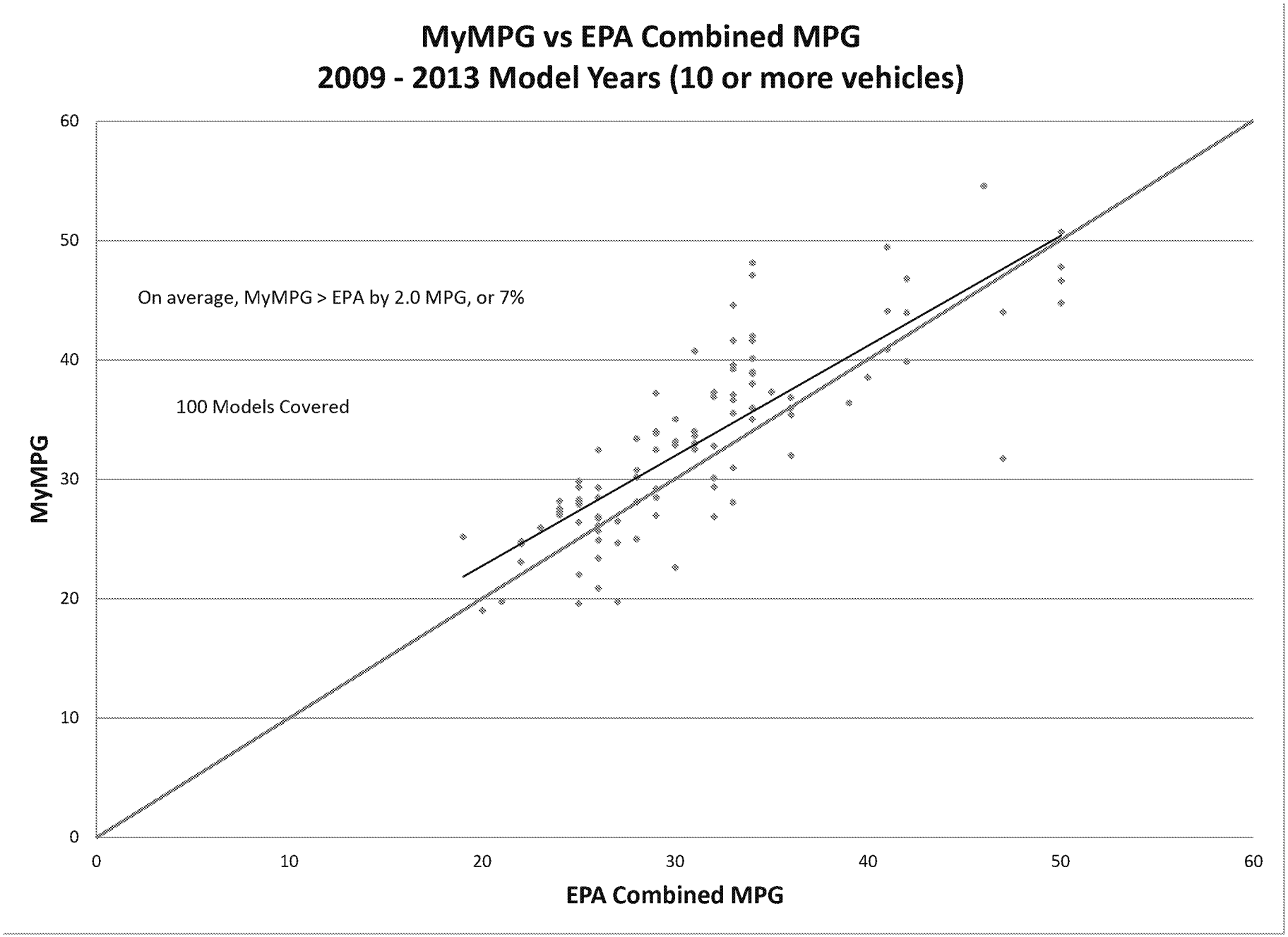
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50	-4.1998606	-13%
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57	-7.4839637	-16%
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30	-7.6429901	-16%


MyMPG vs EPA Combined MPG
2009 - 2013 Model Years (8 or more vehicles)
On average, MyMPG > EPA by 1.8 MPG, or 6%
145 Models Covered
MyMPG
EPA Combined MPG
0
10
20
30
40
50
60

8 or more vehicles list (145 Models)			
Vehicle Description	Number of Vehicles	My MPG - EPA Cmb	PCT Diff
2012 Volkswagen Jetta 2L 4cyl Manual 6-spd	13	11.0	32%
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13	10.8	32%
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18	9.5	28%
2011 Ford Fiesta 1.6L 4cyl Manual 5-spd	9	8.1	25%
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13	7.9	24%
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17	7.9	24%
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19	7.7	19%
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11	7.7	23%
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23	7.2	25%
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11	7.0	21%
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16	6.7	20%
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22	6.6	20%
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31	6.5	20%
2011 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	9	6.0	15%
2012 Volkswagen Jetta 2L 4cyl Automatic (S6)	8	5.9	17%
2010 Honda Fit 1.5L 4cyl Manual 5-spd	8	5.8	20%
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16	5.7	17%
2009 Pontiac G5 XFE 2.2L 4cyl Manual 5-spd	9	5.5	18%
2009 Ford Fusion FWD 2.3L 4cyl Automatic 5-spd	8	5.4	23%
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10	5.4	16%
2012 Volkswagen Golf 2L 4cyl Manual 6-spd	8	5.4	16%
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27	5.3	13%
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17	5.2	21%
2009 Honda Civic 2L 4cyl Manual 6-spd	9	5.2	22%
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18	5.0	15%
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12	4.6	16%
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13	4.3	14%
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13	4.3	16%
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18	4.3	14%
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10	4.2	22%
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11	4.0	18%
2010 Mazda 3 2.5L 4cyl Manual 6-spd	9	4.0	17%
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16	3.9	12%
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13	3.9	11%
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17	3.9	12%
2009 Toyota Corolla 1.8L 4cyl Manual 5-spd	9	3.8	13%
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11	3.8	11%
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32	3.8	13%
2012 Chevrolet Sonic 5 1.4L 4cyl Manual 6-spd	8	3.6	11%
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14	3.5	15%
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10	3.5	11%
2009 Nissan Versa 1.8L 4cyl Manual 6-spd	8	3.5	12%
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50	3.4	11%
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11	3.4	12%
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15	3.3	14%
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29	3.3	11%
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14	3.1	9%
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16	3.0	9%
2009 Scion xB 2.4L 4cyl Automatic (S4)	8	2.9	12%
2009 Pontiac Vibe 1.8L 4cyl Automatic 4-spd	8	2.8	10%
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28	2.8	11%
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12	2.8	10%

2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11	2.6	8%
2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29	2.6	8%
2009 Honda Odyssey 3.5L 6cyl Automatic 5-spd	9	2.3	12%
2012 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	9	2.3	5%
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10	2.3	7%
2009 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	9	2.2	10%
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13	2.1	7%
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11	2.1	7%
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20	2.1	7%
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16	2.1	9%
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37	2.0	6%
2009 Hyundai Accent 1.6L 4cyl Manual 5-spd	8	1.9	7%
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10	1.9	8%
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14	1.9	9%
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10	1.9	5%
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33	1.8	4%
2010 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.8	6%
2009 Ford Focus FWD 2L 4cyl Manual 5-spd	8	1.8	6%
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32	1.8	6%
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12	1.7	7%
2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19	1.7	6%
2009 Acura TSX 2.4L 4cyl Automatic (S5)	8	1.6	7%
2009 Hyundai Elantra 2L 4cyl Automatic 4-spd	9	1.6	6%
2011 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	9	1.5	6%
2010 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	9	1.5	6%
2010 Kia Forte 2L 4cyl Automatic 4-spd	12	1.3	5%
2010 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	8	1.3	5%
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16	1.2	3%
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14	1.1	4%
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10	1.0	4%
2009 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	8	1.0	5%
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10	1.0	3%
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27	1.0	2%
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20	0.8	3%
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23	0.8	3%
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15	0.8	4%
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22	0.6	1%
2012 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	8	0.5	2%
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10	0.5	1%
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11	0.4	2%
2010 Kia Soul 2L 4cyl Automatic 4-spd	11	0.4	2%
2011 Ford Focus FWD 2L 4cyl Automatic 4-spd	9	0.4	1%
2009 Nissan Versa 1.8L 4cyl Automatic (variable gear ratios)	9	0.3	1%
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18	0.3	1%
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21	0.2	1%
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19	0.2	1%
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11	0.1	1%
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23	0.1	0%
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14	0.1	0%
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16	0.0	0%
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14	0.0	0%
2010 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	8	-0.1	0%
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12	-0.1	0%
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10	-0.1	0%
2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15	-0.1	-1%

2011 Kia Forte 2L 4cyl Automatic 6-spd	9	-0.2	-1%
2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10	-0.2	-1%
2012 Subaru Impreza AWD 2L 4cyl Automatic (variable gear ratios)	8	-0.3	-1%
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19	-0.3	-1%
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11	-0.4	-1%
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15	-0.4	-1%
2011 Honda Accord 2.4L 4cyl Automatic 5-spd	8	-0.4	-1%
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13	-0.4	-2%
2010 Chevrolet Camaro 3.6L 6cyl Automatic (S6)	8	-0.5	-2%
2011 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	9	-0.6	-2%
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear r	14	-0.6	-2%
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10	-0.7	-2%
2009 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	8	-0.7	-3%
2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49	-0.7	-2%
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10	-0.9	-3%
2011 Kia Optima 2.4L 4cyl Automatic 6-spd	9	-0.9	-3%
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10	-0.9	-2%
2012 Kia Soul 2L 4cyl Automatic 6-spd	10	-1.0	-4%
2012 Kia Forte 2L 4cyl Automatic 6-spd	8	-1.1	-4%
2011 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	9	-1.4	-4%
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10	-1.4	-3%
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40	-1.4	-3%
2011 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	8	-1.4	-6%
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16	-1.6	-6%
2011 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	8	-1.8	-6%
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28	-1.8	-6%
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16	-2.1	-6%
2013 Lexus ES 300h 2.5L 4cyl Auto(AV-S6)	8	-2.4	-6%
2009 Hyundai Accent 1.6L 4cyl Automatic 4-spd	9	-2.5	-9%
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23	-2.5	-7%
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21	-2.7	-10%
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174	-2.9	-6%
2011 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	8	-2.9	-11%
2012 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	9	-3.0	-8%
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10	-3.3	-12%
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50	-4.2	-13%
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57	-7.5	-16%
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30	-7.6	-16%


MyMPG vs EPA Combined MPG
2009 - 2013 Model Years (10 or more vehicles)
On average, MyMPG > EPA by 2.0 MPG, or 7%
100 Models Covered
MyMPG
EPA Combined MPG
0
10
20
30
40
50
60

10 or more vehicles list (100 Models)			
Vehicle Description	Number of Vehicles	My MPG - EPA Cmb	PCT Diff
2012 Volkswagen Jetta 2L 4cyl Manual 6-spd	13	10.9859189	32%
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13	10.8359962	32%
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18	9.47439998	28%
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13	7.89602707	24%
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17	7.85406828	24%
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19	7.74131614	19%
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11	7.73038744	23%
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23	7.2354991	25%
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11	6.98779541	21%
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16	6.69086025	20%
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22	6.63987825	20%
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31	6.48508292	20%
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16	5.73667947	17%
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10	5.3709755	16%
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27	5.288576	13%
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17	5.23360856	21%
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18	5.04038338	15%
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12	4.60400123	16%
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13	4.3473404	14%
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13	4.33632306	16%
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18	4.32940398	14%
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10	4.15301387	22%
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11	4.00597246	18%
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16	3.94517332	12%
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13	3.90897256	11%
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17	3.86850802	12%
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11	3.79107125	11%
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32	3.78632742	13%
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14	3.53416658	15%
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10	3.51034911	11%
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50	3.42013601	11%
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11	3.40952873	12%
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15	3.32328501	14%
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29	3.27305091	11%
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14	3.07964527	9%
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16	3.04166219	9%
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28	2.83887968	11%
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12	2.79545072	10%
2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11	2.62256851	8%
2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29	2.59074545	8%
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10	2.28051303	7%
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13	2.10368798	7%
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11	2.08432074	7%
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20	2.0755682	7%
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16	2.07114228	9%
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37	1.95946534	6%
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10	1.911876	8%
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14	1.87860055	9%
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10	1.87186766	5%
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33	1.82700129	4%
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32	1.759605	6%
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12	1.70290363	7%

2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19	1.7025693	6%
2010 Kia Forte 2L 4cyl Automatic 4-spd	12	1.32079742	5%
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16	1.22591045	3%
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14	1.13129183	4%
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10	0.99744403	4%
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10	0.96744793	3%
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27	0.96406213	2%
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20	0.81669919	3%
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23	0.78965715	3%
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15	0.78235385	4%
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22	0.61180805	1%
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10	0.45306732	1%
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11	0.42365893	2%
2010 Kia Soul 2L 4cyl Automatic 4-spd	11	0.39400946	2%
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18	0.26045233	1%
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21	0.22093632	1%
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19	0.21105427	1%
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11	0.14935151	1%
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23	0.08277235	0%
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14	0.05899925	0%
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16	0.01988295	0%
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14	-0.0263747	0%
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12	-0.075064	0%
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10	-0.0924664	0%
2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15	-0.1431904	-1%
2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10	-0.2445437	-1%
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19	-0.300604	-1%
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11	-0.3504924	-1%
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15	-0.3925753	-1%
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13	-0.4251736	-2%
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear r	14	-0.608674	-2%
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10	-0.7141793	-2%
2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49	-0.7441489	-2%
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10	-0.8697651	-3%
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10	-0.9113441	-2%
2012 Kia Soul 2L 4cyl Automatic 6-spd	10	-0.9862214	-4%
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10	-1.4221507	-3%
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40	-1.4256669	-3%
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16	-1.552495	-6%
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28	-1.8275592	-6%
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16	-2.0734633	-6%
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23	-2.5279699	-7%
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21	-2.6541256	-10%
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174	-2.8503708	-6%
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10	-3.2923996	-12%
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50	-4.1998606	-13%
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57	-7.4839637	-16%
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30	-7.6429901	-16%

Message

From: Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CBF363AB0A3944E4AE80DEF70B9826BA-ALSON, JEFF]
Sent: 8/8/2013 6:15:25 PM
To: Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Mylan, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70798537ae234bdeb55b66364fb8f220-Mylan, Christopher]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Stewart, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]
CC: Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]
Subject: Revised Q/A
Attachments: Ford Label Q-A 8-8 ja.docx

Deliberative Process / Ex. 5

I will now turn to the Fact Sheet. It seems like the Fact Sheet will now be pretty short and simple and avoid Fusion/MKZ issues.

From: Snapp, Lisa
Sent: Thursday, August 08, 2013 1:27 PM
To: Mylan, Christopher; Alson, Jeff; Bunker, Byron; Stewart, Lori
Cc: Moran, Robin; Zaremski, Sara; Simon, Karl
Subject: revised news brief

Here's an even shorter version of the news brief that Chris Mylan and I have worked. Enjoy--Lisa

---

From: Mylan, Christopher
Sent: Thursday, August 08, 2013 12:50 PM
To: Alson, Jeff; Bunker, Byron; Stewart, Lori
Cc: Snapp, Lisa; Moran, Robin; Zaremski, Sara; Simon, Karl
Subject: RE: One replacement for 11:00

Deliberative Process / Ex. 5

From: Alson, Jeff
Sent: Wednesday, August 07, 2013 10:58 AM
To: Bunker, Byron; Stewart, Lori; Stewart, Gwen; Shaffer, Patricia
Cc: Snapp, Lisa; Moran, Robin; Zaremski, Sara; Mylan, Christopher; Le, Madison; Simon, Karl
Subject: One replacement for 11:00
Importance: High

Gwen, please substitute this file for the one I sent a few minutes ago for the 1-p News Brief. Sorry.

From: Alson, Jeff
Sent: Wednesday, August 07, 2013 10:51 AM
To: Bunker, Byron; Stewart, Lori; Stewart, Gwen; Shaffer, Patricia
Cc: Snapp, Lisa; Moran, Robin; Zaremski, Sara; Mylan, Christopher; Le, Madison; Simon, Karl
Subject: More materials for 11:00 Ford FE Label with Chris
Importance: High

Three more pieces:
1-p News Brief
1-p Key Messages
11-p Q/A

From: Bunker, Byron
Sent: Wednesday, August 07, 2013 9:50 AM
To: Stewart, Lori; Stewart, Gwen; Shaffer, Patricia
Cc: Snapp, Lisa; Alson, Jeff; Moran, Robin; Zaremski, Sara; Mylan, Christopher; Le, Madison
Subject: Partial materials for 11:00 Ford FE Label with Chris

Hi Gwen,

Attached is an agenda and talking points to go over with Chris at our 11:00 today. Lisa or Jeff will be sending up the NewsBrief and Q&As separately.

Thanks,

Byron

****
Byron Bunker
Director Compliance Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
Bunker.Byron@epa.gov
Phone: (734) 214-4155
Mobile: (734) 353-9623
****

Message

From: Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16E26D18AE97412C99DB2F8ED5419449-SNAPP, LISA]
Sent: 8/8/2013 9:58:50 PM
To: Grundler, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]
CC: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Stewart, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Le, Madison [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9297d8b52bcb41319ba40d11142ab307-Le, Madison]; Mylan, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70798537ae234bdeb55b66364fb8f220-Mylan, Christopher]; Alson, Jeff [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]
Attachments: News Brief--Ford relabel 08082013 v2.docx; Ford Label Q-A 8-8 ja.docx; Draft Fact Sheet 8-8 ja.docx; Roll Out for C-Max relabel 08082013.docx

Chris—

Jeff, Byron and I updated the news brief after this afternoon's meeting. We have not yet updated the other materials. Looking forward to your feedback.

Thanks--Lisa

Message

From: Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]
Sent: 1/25/2013 9:09:39 PM
To: McConville, Drew [Andrew_J_McConville@ceq.eop.gov]; james.tamm@dot.gov; White, Thomas [Thomas.White@hq.doe.gov]
CC: Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Justin Cohen [Cohen.Justin@epa.gov]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Hula, Aaron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; John Hannon [Hannon.JohnLNDU@usepa.onmicrosoft.com]
Subject: Draft 2012 CO2 and Fuel Economy Trends Report for review
Attachments: 2012 Executive Summary MASTER 1-25.docx; 2012 Trends Body MASTER 1-25.docx; 2012 Trends App A MASTER 1-25 .docx

Drew, Jim, and Tom,

Here is our draft 2012 CO2 and Fuel Economy Trends report. The timing of the report has been delayed by the Hyundai-Kia data issue, but we are now ready to proceed. Our treatment of the H-K data issue in this report is to include the corrected H-K data in the overall Trends database, to exclude rows for the two manufacturers in tables that compare individual manufacturers, and to have footnotes on those comparative tables explaining why the two manufacturers are not shown and to sometimes give values for those two manufacturers based on the corrected values. It is a balancing act to give the public the best data that we have at this time, while recognizing that there may be more uncertainty than normal about some of the data.

As always, the most important document is the Executive Summary, both because it summarizes the key messages of the report (7 "highlights" this year) and because it is what readers focus on. We have a "what's new" section at the beginning that summarizes the changes this year. The substantive result is that MY 2011, the last year for which we have final data, was a 0.2 mpg drop from MY 2010, but our messaging emphasizes that this was largely artificial due to the lower car production in Japan after the earthquake/tsunami/nuclear disaster, and it falls within a very favorable multi-year trend where fuel economy had increased significantly since 2005 and is projected to do so again in 2012.

2012 Executive Summary MAST...

Here is the Body of the report. I don't necessarily think it is worth your time to try to read through it all, but you are welcome if you want.

2012 Trends Body MASTER 1-25.d...

Finally, here is Appendix A, the one appendix with some text and important methodological pieces. This is important for NHTSA to review.

2012 Trends App A
MASTER 1-25 .d...

While all of you are familiar with this report, we are happy to offer a briefing if any of you would like that. We would like to give any such briefing during the Feb. 1-7 window. Please let us know if you do want a briefing.

Our deadline for comments is Friday, Feb. 15. We are already late due to the H-K issue and we intend to release the report in late February.

Please contact me with any questions and we appreciate your help on this.

Jeff Alson
Transportation and Climate Division
Office of Transportation and Air Quality
U.S. EPA
Phone (734) 214-4296
Email: alson.jeff@epa.gov

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
Sent: 7/18/2013 1:21:37 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
Subject: FW: CMS New Assignment - Tanya Meekins - OAR-13-000-7359
Attachments: OAR-13-000-7359.Ranilla.Hyundai MPG.pdf; oar-13-000-7359 ranilla class action suit.docx

Attached is a draft for you review. Please let me know if you have any edits.
Thanks.

-----Original Message-----
From: Larsen, Kay
Sent: Tuesday, July 16, 2013 9:55 AM
To: Pugliese, Holly
Subject: FW: CMS New Assignment - Tanya Meekins - OAR-13-000-7359

Please prepare a response for this control, for the signature of Byron Bunker.

Due to me by: Friday, July 26, 2013

Thanks,
Kay

-----Original Message-----
From: cmsadmin@epa.gov [mailto:cmsadmin@epa.gov]
Sent: Monday, July 15, 2013 3:52 PM
To: Larsen, Kay
Subject: CMS New Assignment - Tanya Meekins - OAR-13-000-7359

Control OAR-13-000-7359 has been assigned to your office on 7/15/13 3:51 PM by Tanya Meekins. Please go to the CMS webpage to view the details of the control.

Summary Information -
Control Number: OAR-13-000-7359
Control Subject: I am now interested in pursuing Hyundai by joining any "Class Action Suit" that has been granted "National" status, as well as notifying any and all potentially concerned parties-Federal, State or private entities-of my particular problem with Hyundai.
From: PII / Ex. 6

Note: This Email was automatically generated. Please do not attempt to respond to it. You can access this control at https://cms.epa.gov/cms. Questions or comments concerning CMS should be directed to CMS Support at 202-564-4985 or CMS Information@epa.gov.

10 June 2013

To Whom It May Concern:

I have waited since sending this letter (on 10 April 2013) to insure [1] that it was received, and [2] that I gave Hyundai of New Rochelle a reasonable amount of time to respond; be advised that I did not even receive the courtesy of a form letter in response, to this day.

I am now interested in pursuing Hyundai by joining any "Class Action Suit" that has been granted "National" status, as well as notifying any and all potentially concerned parties- Federal, State or private entities- of my particular problem with Hyundai.

My thanks for any advice or assistance that you may be in a position to provide to me regarding this matter.

Very truly yours,

Citizen Name / Ex. 6

Citizen Name / Ex. 6

10 April 2013

Mr. Paul Passarelli
President
New Rochelle Hyundai
125 East Main Street
New Rochelle, NY 10801

Certified Mail
Return Receipt Requested
PII / Ex. 6

RE: **RETAIL LEASE AGREEMENT OF 14 APRIL 2012 FOR:**

HYUNDAI	2012 SONATA LIMITED 2.OT (SD)
VIN	Personal Security Detail / Ex. 6
MODEL	27452 F45
ENGINE	G4K HCK 071328
EXT COLOR	BLACK

EPA FUEL ECONOMY ESTIMATES: (Hyundai's Representation)	City MPG 22	Highway MPG 34
ACTUAL FUEL ECONOMY: (Lease Year One Averages)	City MPG 15.62	Highway MPG 21.26

Dear Mr. Passarelli:

I am writing to you to advise you of the following:

1] I have not been contacted by Hyundai (although I have contracted with them as above indicated) regarding your company's public statement of 02 November 2012, in which Hyundai admitted to overstating, in its marketing material, the gas mileage/fuel efficiency that consumers could expect to attain on Hyundai vehicles.

2] The Hyundai statement of 02 November 2012 also mentioned that "it would begin a broad effort to reimburse consumers" who had acquired their motorcars as a result of the company's false mileage estimates.

Given that over the course of my initial year with the subject Hyundai, I have consistently experienced, on documented average, one-third fewer miles per gallon than the EPA estimate represented by Hyundai (i.e., I have consistently required fifty percent more gasoline than anticipated), I believe it is fair to state that Hyundai's fraudulent gas mileage claims- which induced me to lease my vehicle- have caused, and will continue to cause for the next two years if allowed to stand, expenditures approximating 50% more for gas than I anticipated, during my 36 month lease period.

This statement cannot legitimately be challenged, since the Hyundai estimates are consistently 50% higher than my actual year one mileage experiences (i.e., Hyundai's City estimate of 22 MPG versus my actual City mileage of 15.62 MPG; and Hyundai's Highway estimate of 34 MPG versus my actual Highway mileage of 21.26 MPG). I estimate that I will spend an additional $2,644 on gas over the 36 months and 36,000 allowable miles of my lease ($7,773 versus your estimate of $5,129) as a direct result of Hyundai's fraudulent mileage claims.

In consideration of the financial harm that Hyundai has deliberately caused to me, as a direct result of its intentionally fraudulent marketing statements, I request that the following relief be immediately granted:

The cancellation of the subject lease Agreement with the mutual consent of the Parties, without penalty to the Lessee, and the return of 100% of Lessee's down payment of $2,345.50, effective at the close of business on Monday, 15 April 2013.

I thank you for your prompt attention to this requested resolution.

COPY FOR YOUR INFORMATION

By:_____

cc: Distribution (attached)

DISTRIBUTION:

Office of the Attorney General
State of New York
Bureau of Consumer Fraud
The Capitol
Albany, NY 12224-0341

Office of the Attorney General
State of California
Bureau of Consumer Fraud
P. O. Box 944 255
Sacramento, CA 94244-2550

Mr. John Krafcik
Chief Executive Officer
American Operations Group
Hyundai Motor America
P. O. Box 20850
Fountain Valley, CA 92728

Hyundai Motor Finance
P. O. Box 629 027
El Dorado Hills, CA 95782
ATTN: Consumer Complaints

Ms. Gina McCarthy
Assistant Administrator
U.S. Environmental Protection Agency
6101A NW Mail Code
Washington, D.C.20460

Ms. Laura Antonini
Consumer Watchdog
www.consumerwatchdog.org

Mr. John O'Dell
Auto Research Analyst
www.Edmonds.com

Cuneo, Gilbert & LaDuca, L.L.P.
507 "C" Street NE
Washington, D.C. 20002
ATTN: Hyundai Litigation Group

Mr. Richard D. McCune, Esq.
Hyundai Litigation Group
McCune Wright L.L.P.
2068 Orange Tree Lane
Suite 216
Redlands, CA 92374

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

NEW ROCHELLE NY 10801 OFFICIAL USE

Postage	$ 0.46	0076
Certified Fee	$3.10	12
Return Receipt Fee (Endorsement Required)	$2.55	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $6.11	04/10/2013

Sent To: NEW ROCHELLE HYUNDAI
Street, Apt. No.; or PO Box No.: 125 E. MAIN ST
City, State, ZIP+4: New Rochelle NY 10801

PS Form 3800, August 2006 — See Reverse for Instructions

Expected Delivery: Thu 04/11/13

Return Rcpt (Green Card)	$2.55
## Certified	$3.10
Label #:	70123050000182955037
Issue PVI:	$6.11
Total:	$6.11
Paid by: Cash	$10.00

PII / Ex. 6

Certified Mail
Return Receipt Requested
PII / Ex. 6

MENT OF 14 APRIL 2012 FOR:
2012 SONATA LIMITED 2.OT (SD)
PII / Ex. 6
27452 F45
G4K HCK 071328
BLACK

Highway MPG 34

Highway MPG 21.26

ave contracted with
s public statement of 02
rstating, in its marketing
mers could expect to

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
MR PAUL PASSARELLI
New Rochelle Hyundai
125 E MAIN St
New Rochelle
NY 10801

PII / Ex. 6

☐ Agent
☐ Addressee
Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label)

PII / Ex. 6

PS Form 3811, February 2004 Domestic Return Receipt

Message

From: Walters, Margaret [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=406F74D8F760452CB40E0A9D25C95C3B-WALTERS, MARGARET]
Sent: 1/30/2013 6:13:39 PM
To: Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]
CC: Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Manners, Mary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]
Subject: Due February 5: Agency Priority Goals: Q1 Reporting Deliverables
Attachments: LDHD Q1 FY13 Progress Survey 1_30_13.docx; Q1 FY 13 Detailed Progress Survey.docx

Dear Sara-

It was nice speaking with you and I appreciate your being at the ready to respond to this request.

Q1 Reporting to OMB

1. OTAQ - Respond to the Goal Leader survey - short and detailed by *COB February 5, 2013.*

LDHD Q1 FY13 Progress Survey ... | Q1 FY 13 Detailed Progress Survey....

2. OPMO - Input results information into Performance.gov by *February 7, 2013.*

Q1 Review Materials development Week of February 11

1. OCFO will develop first draft of meeting materials and I'll review and update using the info you submit and then run it past you/Lori. I will get you those materials by mid- February.

   a. Note: A part of the Q1 Discussion, there will be some focus on the development of the FY 2014-2015 APGs.

Q1 Priority Goals Review with the DA – Week of February 25 (Same Approach as Q3)

On a separate track, I'll be touching base with Betsy and Janet to give them a heads up that we need to start thinking about FY 2014-2015 APGs and what we may want to focus on - not just OTAQ but OAR-wide.

Please let me know if you have any questions. And thanks so much Sara!
Margaret

Margaret Walters
Planning and State Grants Liaison
U.S. Environmental Protection Agency
Office of Air and Radiation
Tel 202.564.4107

GOAL LEADER SURVEY ON APG QUARTER 1 PROGRESS

Instructions:
Please Update Q4 Survey for Q1 FY 2013

- **Characterize the progress made to date on this goal against the expected level of performance (targets, milestones, etc):**
  a. Progress – Exceeding expectations
  b. Progress – Meeting expectations
  c. Progress – Below expectations
  d. No Progress/Performance decline

- **Briefly summarize quarterly progress related to supporting measures, milestones, and other information that supports the assessment in Question 1.**
  - Light Duty Standards:
    - As of September 30, 2012, EPA had issued just over 100 light-duty certificates for 2013 model year in the fourth quarter, bringing the total for the 2013 model year to date to over 480.
    - Confirmatory (spot check) test 35 manufacturer pre-production certification vehicles (mixture of 2012 & 2013 model year vehicles) to confirm manufacturer greenhouse gas emission values.

Deliberative Process / Ex. 5

    - Reviewed and started analysis of early model year GHG credit reports (LD).
    - Completed coding of the GHG calculation assessment portion of Phase 2 of the database system development.). The data system development is being completed to allow the Compliance Division to assess and assure compliance with the GHG standards. This will collect all of the relevant data and perform the fleet-wide calculations required for compliance.
  - Heavy Duty Standards:
    - In order to accommodate early credit earning opportunities for tractor and vocational truck manufacturers, EPA issued 5 certificates of conformity in the third quarter for model year 2013, bringing the total to date to 43.
    - EPA also issued 2 engine GHG certificates during 4th quarter, the first of their kind to be issued.

- **What were the results of progress, including data on milestones and indicators?** *Please add additional performance measures/milestones, otherwise we will include the milestones and data provided in the Goal Performance Progress Meeting presentation on the APGs*

  As a result of the surveillance testing at the test track and previous road load testing, EPA has announced that Hyundai and Kia will lower their fuel economy (MPG) estimates for the majority of their model year 2012 and 2013 vehicle models as the result of an EPA investigation of test data. The mileage on most vehicle labels will be reduced by 1 to 2 MPG, and the largest adjustment will be 6 MPG highway for the Kia Soul.

- **Please describe any risk factors/problems encountered that are limiting progress on this goal or that may impede progress in the future.** *Please add any new and additional barriers/challenges of possible, otherwise we will include the barriers and challenges provided in the Goal Performance Progress Meeting presentation on the APGs*

  There were no challenges inhibiting the group's ability to make progress as planned on this goal.

- **How are the issues identified in Question 3 (or challenges/barriers listed in the Goal Performance Progress Meeting presentation) being addressed and what are the plans for next quarter?**

N/A

- **What is your projection of the likelihood that the goal will be achieved and what is your level of confidence in that projection?**

  The goal is very likely to be achieved with a high level of confidence in this projection.

- **Is there any assistance that OMB, the PIC, or other agencies can provide to support progress and/or improve performance on this goal? Are there any successful practices that you would like to share with others?** *Please be as specific as possible.*

  The progress made on this goal meets the expectations and therefore no additional actions are necessary.

Goal Leaders or Deputy Goal Leaders must approve this survey before submission.

Name of Goal Leader or other designated official approving this submission: Betsy Shaw.

Message

From: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4D781D1AD595415DB3A4E768C2D2B3FC-SIMON, KARL]
Sent: 2/14/2013 3:46:25 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: Fw: Det News article on MPG--with a mention of GPM at the end
Attachments: DIB0001; DIB0002; DIB0003; DIB0004

pls include me on the emails if you are including my staff on these issues as we are talking. thanks

----- Forwarded by Karl Simon/DC/USEPA/US on 02/14/2013 10:45 AM -----

From: Lisa Snapp/AA/USEPA/US

To: Karl Simon/DC/USEPA/US@EPA
Date: 02/14/2013 10:42 AM
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Forwarded by Lisa Snapp/AA/USEPA/US on 02/14/2013 10:41 AM -----

From: William Charmley/AA/USEPA/US

To: Linc Wehrly/AA/USEPA/US@EPA, Jeff Alson/AA/USEPA/US@EPA, Ed Nam/AA/USEPA/US@EPA, Robin Moran/AA/USEPA/US@EPA, Lisa Snapp/AA/USEPA/US@EPA
Cc: Byron Bunker/AA/USEPA/US@EPA
Date: 02/13/2013 11:44 AM
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Forwarded by William Charmley/AA/USEPA/US on 02/13/2013 11:44 AM -----

From: Justin Cohen/DC/USEPA/US
To: Byron Bunker/AA/USEPA/US@EPA
Cc: Christopher Grundler/AA/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA, William Charmley/AA/USEPA/US@EPA
Date: 02/13/2013 11:09 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Deliberative Process / Ex. 5

Thanks!

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

From: Byron Bunker/AA/USEPA/US
To: Christopher Grundler/AA/USEPA/US@EPA
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA, William Charmley/AA/USEPA/US@EPA
Date: 02/13/2013 09:45 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

I can't see where the reporter is getting his Edmunds "estimates." Here is a link to the most relevant Edmunds article that I could find.
http://www.edmunds.com/fuel-economy/heres-why-real-world-mpg-doesnt-match-epa-ratings.html

That article says, *"What may be surprising to many is the fact that ever since the EPA modified its testing process and applied those changes to the 2008 model year, its ratings aren't really all that far off the real-world mpg that consumers get. While there are lots of people who cannot under any circumstances get their vehicles to come close to the official ratings, there are also lots who regularly meet or exceed them.*

A special "Your MPG" section of the Department of Energy's Fuel Economy Web site lets people report their own fuel economy averages. No one double-checks the figures, and those reporting might be bragging about good fuel economy. But the self-reported mpg averages for various vehicles, which the site has been compiling for several years, tends to show better fuel economy than the EPA ratings."

Edmunds does have a pre 2008 article that shows an offset for MY2004 vehicles compared to the old label, but that hardly seems relevant now.

I would suggest we follow up with the reporter to find his source for the graphic and the "analyst estimates."

From: Christopher Grundler/AA/USEPA/US
To: William Charmley/AA/USEPA/US@EPA, Byron Bunker/AA/USEPA/US
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA
Date: 02/13/2013 08:51 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

From: William Charmley

To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly
Date: 02/13/2013 07:34 AM CST
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

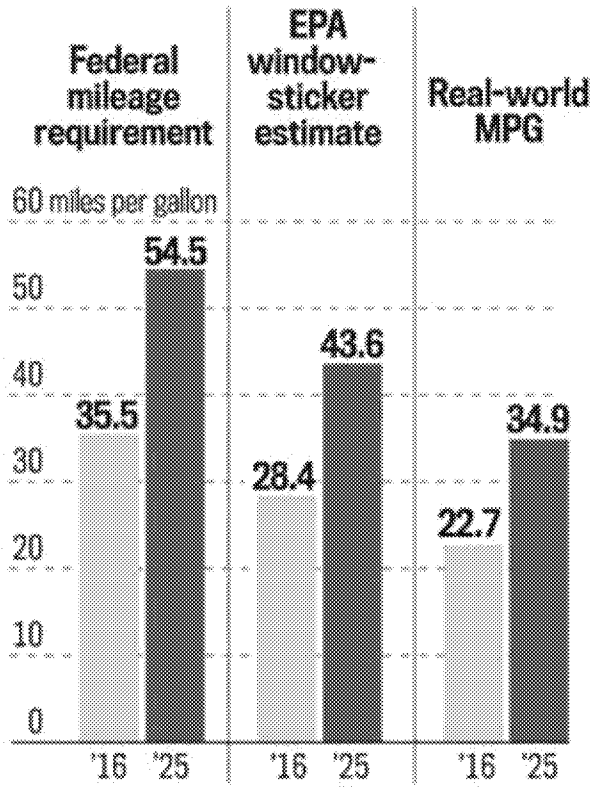
February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

By Karl Henkel
The Detroit News
2 Comments

Real-world fuel efficiency

Federal fuel-efficiency standards call for automakers' cars and light-duty trucks to average 54.5 miles per gallon by 2025. But in the real world, drivers won't get that.



Sources: NHTSA, Edmunds.com estimates

The Detroit News

Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News:
http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Justin Cohen [Cohen.Justin@epa.gov]
Sent: 2/13/2013 10:57:35 PM
To: Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Nam, Ed [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]
CC: Grundler, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]
Subject: EPA looks to audit more mpg claims (Automotive News)
Attachments: DIB0001; DIB0002

Hi Jeff,

As discussed, I'm just forwarding that Automotive News article we were just chatting about to the core group per usual, just so there's no surprises. This is separate from the Free Press article.

http://www.autonews.com/apps/pbcs.dll/article?AID=/20130213/OEM11/130219920/epa-looks-to-audit-more-mpg-claims#axzz2KokC94qM

EPA looks to audit more mpg claims

Vince Bond -- Follow Vince on
and Nick Bunkley -- Follow Nick on
Automotive News -- February 13, 2013 - 3:54 pm ET

ANN ARBOR, Mich. -- A senior EPA engineer says he expects the government to more closely monitor automakers' fuel economy ratings after Hyundai and Kia overstated mileage claims on some nameplates.

Speaking at a University of Michigan conference today about the government's 2025 fuel economy standards,

Jeff Alson said the agency has always performed "routine audits" of the tests, which automakers conduct themselves.

But higher gasoline prices have highlighted discrepancies between the ratings and the fuel economy that drivers achieve.

"We'll probably do more of that in the future than we did in the past," Alson said.

After an EPA audit prompted by complaints from consumers and other automakers, Hyundai and Kia had to reduce the mpg ratings on eight Hyundai nameplates and five Kia nameplates in the 2011-13 model years and have agreed to compensate owners.

Ford Motor Co. faces a lawsuit from a California man because his C-Max hybrid isn't getting 47 mpg as advertised.

Alson said the agency will continue to evaluate the best way to communicate fuel-economy ratings to consumers.

Hybrids and electric vehicles can perform differently depending on weather conditions and how they are driven. This complicates developing ratings for window stickers.

"Everybody wants a label that tells you exactly what you're going to get, but obviously that's not possible," Alson said. "A good general rule of thumb is that real-world fuel economy is about 20 percent lower than the lab numbers."

Alson said he expects the Obama administration's proposed 2025 fuel economy standards to remain unchanged after a midterm review unless evidence at the time shows the industry is making more or less progress than expected.

The review, requested by some automakers and scheduled to be completed by April 2018, is designed to evaluate automakers' progress before finalizing the targets for the 2022-25 model years.

The White House seeks to raise fuel economy targets to 54.5 mpg by the 2025 model year.

Alson said the EPA expects real-world average fuel economy in 2025 to be about 40 mpg, up from about 20 mpg in 2010 and a projected 27 mpg in 2016.

Automakers, most of whom supported the proposed mpg standards for the 2025 model year, don't want the standards to become tougher, while environmentalists worry that regulators will use the review as an opportunity to relax the requirements.

Where automakers will stand several years from now is difficult to project because the EPA can't foresee future technology innovations or changes in oil and fuel prices.

Alson provided a few more EPA forecasts:

• Lightweight materials will reduce vehicle mass by 8 percent on average by 2025 because of corporate average fuel economy standards.

• About 90 percent of 2025 models will have downsized, turbocharged powertrains and eight-speed transmissions.

• Electric vehicles will account for just 2 percent of the market in the 2025 model year.

Read more: http://www.autonews.com/article/20130213/OEM11/130219920#ixzz2KolBTz4p

Follow us: @Automotive_News on Twitter | AutoNews on Facebook

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

Message

From: Justin Cohen [Cohen.Justin@epa.gov]
Sent: 2/13/2013 8:30:07 PM
To: Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]
CC: Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Nam, Ed [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]
Subject: Bomey's Det Free Press article

fyi --
typical of some press to highlight costs, not benefits!

http://www.freep.com/article/20130213/BUSINESS01/130213049/EPA-Average-vehicle-will-cost-2-600-more-in-2025-due-to-fuel-economy-standards

EPA: Average vehicle will cost $2,600 more in 2025 due to fuel economy standards

By Nathan Bomey

Free Press Business Writer

ANN ARBOR—U.S. automakers can meet the government's 2025 corporate average fuel economy (CAFE) standards in an affordable way by expanding the use of existing technologies, an Environmental Protection Agency official said today.

Jeff Alson, senior engineer for the EPA, said the agency believes 2025 model-year vehicles will be $2,600 more expensive than 2011 vehicles if auto companies choose the "most cost effective" route to meeting CAFE standards.

That would mostly involve improvements in internal combustion engines and hybrids that use gasoline.

The government is requiring automakers to achieve a fleet average of 54.5 miles per gallon by 2025, although several credits, incentives and exceptions will be available.

Alson said the EPA expects real-world average fuel economy in 2025 to be about 40 mpg, up from about 20 mpg in 2010 and a projected 27 mpg in 2016.

His comments came as the auto industry is buzzing about the revelation that Hyundai and Kia overstated fuel economy in some of their vehicles and after the finding by Consumer Reports that two Ford hybrids fell short of their EPA gas mileage ratings in test drives.

"A good general rule of thumb is that real-world fuel economy is about 20% lower than the lab numbers," Alson said at the University of Michigan Transportation Resaerch Institute's Automotive Research Conference on fuel economy.

On Tuesday night, President Barack Obama proposed in his State of the Union that the U.S. funnel some oil and gas revenues into a new trust to fund R&D to "drive new research and technology to shift our cars and trucks off oil for good."

But most people will still be using gasoline by 2025, EPA projected.

Alson said the most likely way for U.S. auto companies to meet CAFE standards by 2025 would include:

•More than 90% of 2025 model-year vehicles with turbocharged, direct-injection engines that still use gasoline.

•Eight-speed transmissions for 90% of vehicles.

•An 8% reduction in vehicle mass through lightweight materials such as aluminum.

•Market share of 26% for "mild hybrids" that use stop-start technologies, for example.

•Market share of 5% for "strong hybrids" like the Toyota Prius, which still uses gasoline, and 2% share for electric and semi-electric vehicles like the Nissan Leaf and Chevrolet Volt.

John Humphrey, senior vice president of global automotive operations for J.D. Power & Associates, projected on Friday that market share for hybrids and electric vehicles will reach 7.7% by 2019.

Automakers have a long way to go to meet 2025 CAFE standards, but UMTRI analyst Brandon Schoettle said they are making progress. He said U-M's Eco-Driving Index shows that new-vehicle emissions dropped by 18% from October 2007 to October 2012.

But average fuel economy for cars and light trucks only improved by 3 mpg from 1990 to 2010.

"The gains over the past five model years are similar to the gains that were achieved over the past 20 years," Schoettle said.

Contact: Nathan Bomey at 313-223-4743 or nbomey@freepress.com. Follow him on Twitter @NathanBomey.

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

Message

From: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3BE58C2CC8545D88CF74F3896D4460F-GRUNDLER, CHRISTOPHER]
Sent: 2/13/2013 3:02:03 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Justin Cohen [Cohen.Justin@epa.gov]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]
Subject: Re: Det News article on MPG--with a mention of GPM at the end
Attachments: DIB0001; DIB0002; DIB0003; DIB0004

We need to be doing more to get the facts out. This is taking a life of its own. The chart with the story combined with the edmunds spokesperson are really bad
Sent by EPA Wireless E-Mail Services

From: Byron Bunker

To: Christopher Grundler

Cc: Justin Cohen; Lori Stewart; William Charmley

Date: 02/13/2013 08:45 AM CST

Subject: Re: Det News article on MPG--with a mention of GPM at the end

I can't see where the reporter is getting his Edmunds "estimates." Here is a link to the most relevant Edmunds article that I could find. http://www.edmunds.com/fuel-economy/heres-why-real-world-mpg-doesnt-match-epa-ratings.html

That article says, *"What may be surprising to many is the fact that ever since the EPA modified its testing process and applied those changes to the 2008 model year, its ratings aren't really all that far off the real-world mpg that consumers get. While there are lots of people who cannot under any circumstances get their vehicles to come close to the official ratings, there are also lots who regularly meet or exceed them.*

A special "Your MPG" section of the Department of Energy's Fuel Economy Web site lets people report their own fuel economy averages. No one double-checks the figures, and those reporting might be bragging about good fuel economy. But the self-reported mpg averages for various vehicles, which the site has been compiling for several years, tends to show better fuel economy than the EPA ratings."

Edmunds does have a pre 2008 article that shows an offset for MY2004 vehicles compared to the old label, but that hardly seems relevant now.

I would suggest we follow up with the reporter to find his source for the graphic and the "analyst estimates."

From: Christopher Grundler/AA/USEPA/US

To: William Charmley/AA/USEPA/US@EPA, Byron Bunker/AA/USEPA/US
Cc: Justin Cohen/DC/USEPA/US@EPA, Lori Stewart/DC/USEPA/US@EPA
Date: 02/13/2013 08:51 AM
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

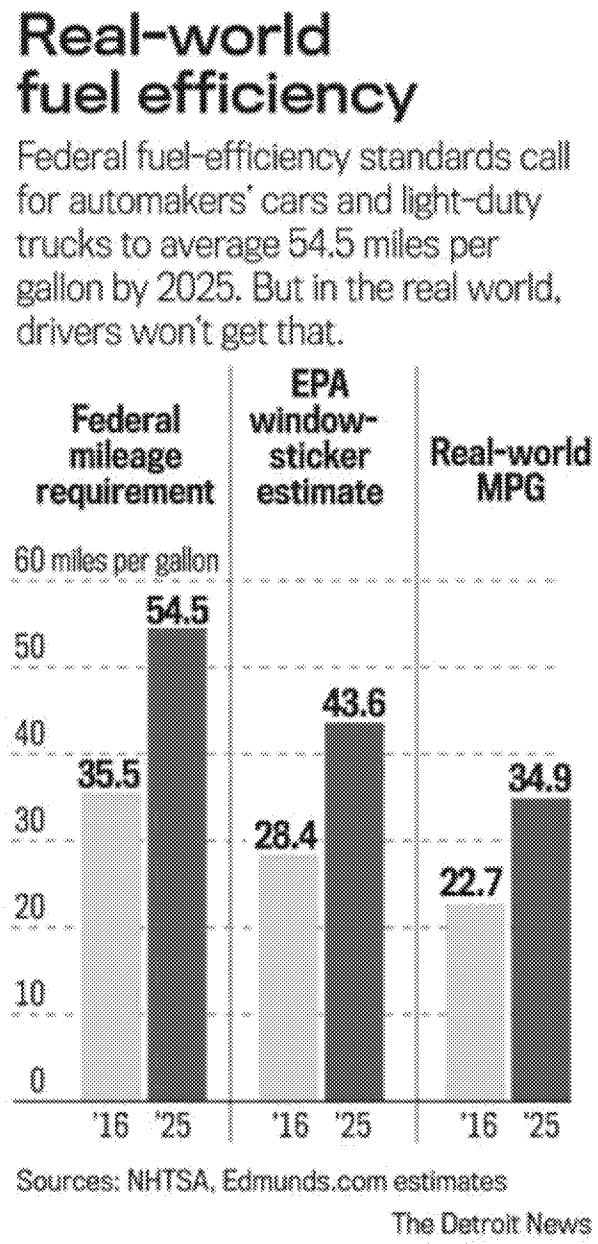
From: William Charmley
To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly
Date: 02/13/2013 07:34 AM CST
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

By Karl Henkel
The Detroit News
2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News:
http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FB1828FB00AF42FFB68B9E0A71626D95-CHARMLEY, WILLIAM]
Sent: 2/13/2013 2:01:05 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Nam, Ed [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2653f1ddd59470688ba557dd84d9690-Nam, Ed]
Subject: Fw: Det News article on MPG--with a mention of GPM at the end
Attachments: DIB0001; DIB0002; DIB0003; DIB0004

I wanted ed, jeff and robin to see this

----- Original Message -----
From: Christopher Grundler
Sent: 02/13/2013 08:51 AM EST
To: William Charmley; Byron Bunker
Cc: Justin Cohen; Lori Stewart
Subject: Re: Det News article on MPG--with a mention of GPM at the end

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

From: William Charmley

To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly

Date: 02/13/2013 07:34 AM CST

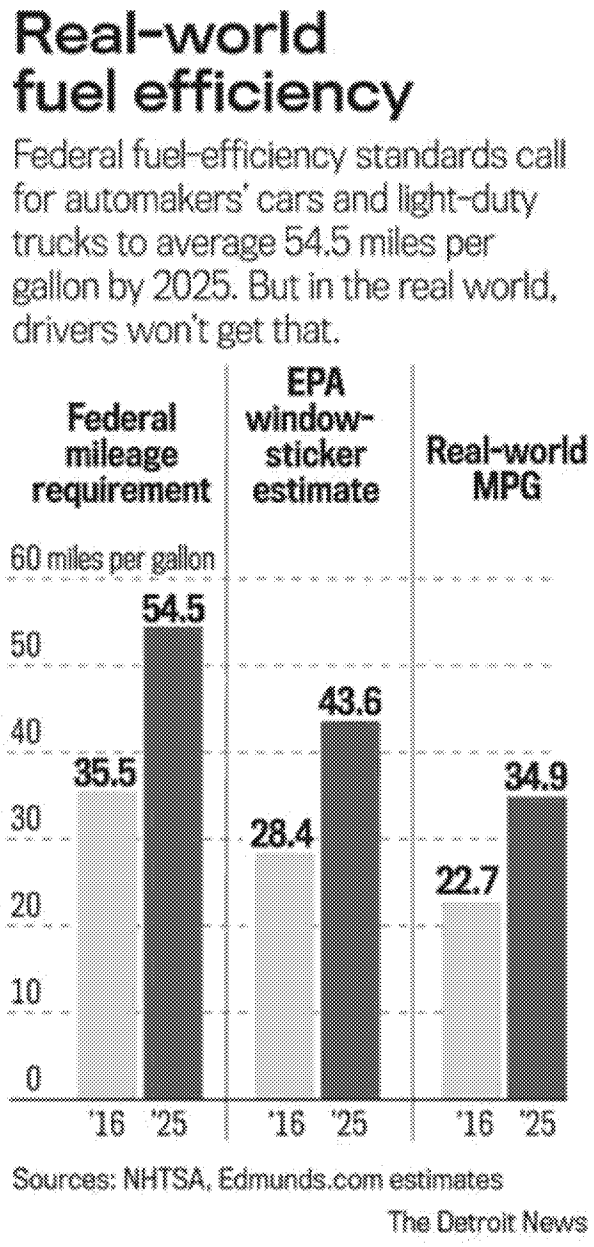
Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

By Karl Henkel
The Detroit News
2 Comments



Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.
The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering

changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."

CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.

"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.

Automakers test their own vehicles; their estimates are then certified by the EPA.

The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.

Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.

Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.

The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.

Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.

Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.

Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.

"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."

khenkel@detroitnews.com

(313) 222-2504

From The Detroit News:
http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6EC0000A0259452FA0F4D1C390A96859-JUCOHEN]
Sent: 2/5/2013 6:22:34 PM
To: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]; Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]
Subject: Consumer Reports article

In case you haven't had a chance to look up the article yet

http://news.consumerreports.org/cars/2013/02/consumer-reports-finds-small-turbo-engines-dont-deliver-on-fuel-economy-claims.html

Consumer Reports finds small turbo engines don't deliver on fuel economy claims
Feb 5, 2013 12:01 AM

Small turbocharged engines are marketed as delivering the power of a large engine, with the fuel economy of a smaller one. That's a tempting proposition, but our testing shows these small-displacement turbos are not delivering on the promises.

By now, we've tested many cars with these engines, and lots of competitors with traditional, naturally-aspirated powerplants, big and small. Generally, the turbocharged cars have slower acceleration and no better fuel economy than the models with bigger, conventional engines. Looking at EPA fuel-economy estimates (calculated based on laboratory tests), some of these cars' turbocharged engines seem to have an advantage. But we found those results don't match the findings from our own fuel-economy tests.

The latest example is the collection of EcoBoost Ford Fusions we tested, which come with small, direct-injection, turbocharged four-cylinder engines. The smallest one—a 1.6-liter producing 173 hp—is a $795 option over the basic conventional 2.5-liter four cylinder on Fusion SE models. But that car's 0-60 mph acceleration time trails most competitors, and its 25 mpg overall places it among the worst of the crop of recently-redesigned family sedans. The Toyota Camry, Honda Accord, and Nissan Altima, all with conventional 2.4- or 2.5-liter four-cylinder engines, get an additional 2, 5, and 6 mpg, respectively. And all accelerate more quickly.

The larger among Ford's EcoBoost four-cylinder engines, the turbocharged 231-hp, 2.0-liter, is billed as having the power of a V6 but delivering the fuel economy of a four-cylinder. However, our so-equipped Fusion Titanium returned 22 mpg (which pales against the 25 and 26 mpg we recorded for the best V6 family sedans), slower acceleration and reduced refinement compared to its V6-powered peers.

r example is our tests of the Chevrolet Cruze. Our base Cruze had the 1.8-liter four-cylinder; our higher-end 1LT version came with the 1.4-liter turbo four cylinder. While the 1.4-liter feels marginally more powerful in daily driving, it was barely faster to 60 mph, and it got the same fuel economy as the larger engine—26 mpg overall.

Turbochargers pump extra air into the engine to deliver more power. But all engines have to be operated at a very specific air-to-fuel ratio. So this extra air has to be augmented with extra fuel, which may offset any savings from shrinking engine sizes.

One benefit to the turbocharged engines is an abundance of torque at low to mid rpm. In daily driving, this means a more effortless feeling of thrust with reduced need to downshift while climbing hills or when delivering the kind of moderate acceleration most drivers demand. That can make a car feel more responsive, even if its actual acceleration times from a standstill are slower. However, not all of these turbocharged models deliver that benefit. Many, especially those smaller 1.4- and 1.6-liter engines, still downshift frequently to keep up with traffic. And all but one of the tested cars have slower mid-range acceleration from 45-65 mph.

In contrast, BMW's turbocharged four-cylinder engines seem to deliver both good fuel economy and acceleration: The 2.0-liter turbocharged four cylinder contributes to 28 mpg overall in our last tested 328i sedan. It improved mileage only marginally in the 2013 X3 SUV compared to the six-cylinder 2011 X3 we tested, with essentially identical power and acceleration but somewhat comprised refinement. The 2.0-liter turbo four cylinder engine we've tested in Audis and Volkswagens usually return impressive mileage, though we haven't tested any identical model powered by two different engines for such a direct comparison.

Model	Engine	0-60 mph	EPA mpg	CR mpg
Ford Fusion	**1.6L Turbo 4**	**8.9**	**28**	**25**
Hyundai Sonata	2.4L Four	8.2	26	27
Kia Optima	2.4L Four	8.6	27	25
Toyota Camry	2.4L Four	8.4	28	27
Honda Accord	2.4L Four	7.7	30	30
Nissan Altima	2.4L Four	8.2	27	31
Ford Fusion	**2.0L Turbo 4**	**7.4**	**26**	**22**
Hyundai Sonata	**2.0L Turbo 4**	**6.6**	**26**	**25**
Kia Optima	**2.0L Turbo 4**	**6.6**	**26**	**24**
Toyota Camry	3.5L V6	6.4	25	26
Honda Accord	3.5L V6	6.3	25	26
Nissan Altima	3.5L V6	6.3	23	24
Chevrolet Cruze	**1.4L Turbo 4**	**9.8**	**28**	**26**
Chevrolet Cruze	1.8L Four	10.5	27	26
Dodge Dart	**1.4L Turbo 4**	**8.6**	**31**	**29**
Dodge Dart	2.0L Four	11.0	27	27
Ford Escape	**1.6L Turbo 4**	**9.9**	**25**	**22**
Honda CR-V	2.4L Four	9.2	25	23
Kia Sportage	2.4L Four	10.3	23	22
Toyota RAV4	2.5L Four (2012)	10.0	24	23
Ford Escape	**2.0L Turbo 4**	**8.2**	**24**	**22**
Kia Sportage	**2.0L Turbo 4**	**7.1**	**22**	**21**
Toyota RAV4	3.5L V6 (2012)	6.7	22	22
BMW X3	**2.0L Turbo 4**	**7.3**	**24**	**23**
BMW X3	3.0L Six	7.2	21	22
Ford F-150	**3.5 V6 Turbo**	**7.7**	**17**	**15**
Ford F-150	5.0L V8	7.8	16	15

So don't take turbocharged engines' eco-boasts at face value. There are better ways to save fuel, including hybrids, diesels, and other advanced technologies. We'll take a look at their effectiveness in a future post.

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/24/2013 7:41:47 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: OECA 208 Letter (Hyundai)
Attachments: Hyundai Kia OECA 208 rev 011513_CDedit.docx

Byron,

Here is the letter with our comments (Julian, Linc, and Joel).

Hyundai Kia OECA 208 rev 011513_...

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

Message

From: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3BE58C2CC8545D88CF74F3896D4460F-GRUNDLER, CHRISTOPHER]
Sent: 2/13/2013 1:51:09 PM
To: Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Justin Cohen [Cohen.Justin@epa.gov]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]
Subject: Re: Det News article on MPG--with a mention of GPM at the end
Attachments: DIB0001; DIB0002; DIB0003; DIB0004

Not good. Where do the "real world estimates" come from. Pls advise re possible response
Sent by EPA Wireless E-Mail Services

From: William Charmley

To: Byron Bunker; Justin Cohen; Christopher Grundler; Linc Wehrly

Date: 02/13/2013 07:34 AM CST

Subject: Fw: Det News article on MPG--with a mention of GPM at the end

----- Original Message -----
From: David Ganss
Sent: 02/13/2013 08:28 AM EST
To: GHG Technology Info
Subject: Det News article on MPG--with a mention of GPM at the end

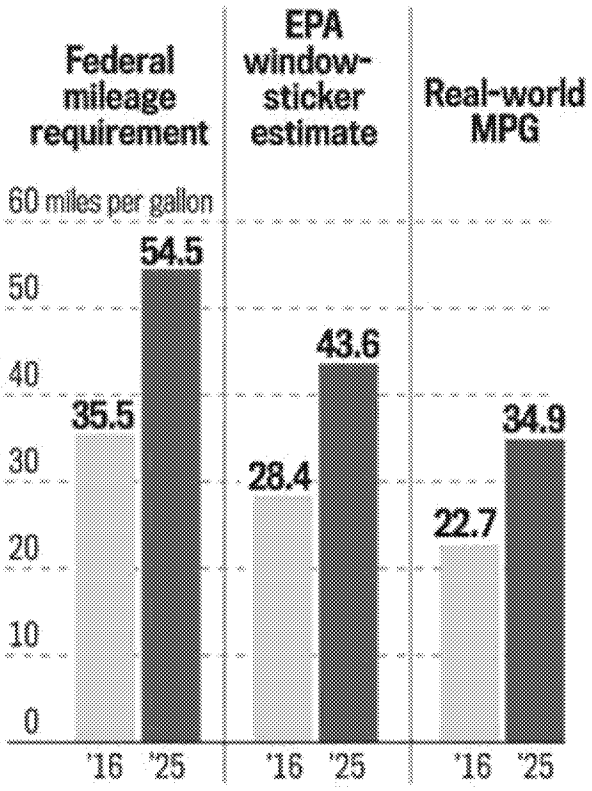
February 13, 2013 at 1:00 am

Experts urge making mpg math less fuzzy

By Karl Henkel
The Detroit News
2 Comments

Real-world fuel efficiency

Federal fuel-efficiency standards call for automakers' cars and light-duty trucks to average 54.5 miles per gallon by 2025. But in the real world, drivers won't get that.



Sources: NHTSA, Edmunds.com estimates

The Detroit News

Zoom

Drivers of some cars are learning that gas-mileage estimates on window stickers overpromise what they really get on the highway. That's reigniting a debate on how to calculate fuel economy.

The auto industry is under a more watchful eye, after Hyundai Motor Co. and Kia Motors of America had to scale back mileage claims on several models. And the Environmental Protection Agency is considering changing testing requirements for hybrids after Consumer Reports found real-world fuel efficiency of Ford Motor Co.'s C-Max and Fusion hybrids fell short of EPA estimates.

Some suggest it's time to rethink mileage testing for all vehicles, as automakers prepare to meet the 54.5 miles-per-gallon Corporate Average Fuel Economy fleet standard by 2025.

Drivers of a vehicle averaging 54.5 miles per gallon by CAFE standards won't get anywhere close to that mark. They probably won't even squeeze 43.6 mpg — the EPA window-sticker figure that is equivalent to the CAFE calculations.

Real-world drivers are far more likely to get about 35 miles per gallon, more than a 30 percent reduction from the original CAFE number, according to analyst estimates, because real-world driving conditions are a far cry from laboratory tests.

"It's regulatory fiction," John O'Dell, senior editor at automotive research site Edmunds.com, said of CAFE

numbers. "The number has no integrity. It's just the measuring mark (automakers) have to hit."
CAFE and EPA estimates use different methods: The CAFE calculation hasn't changed since 1975, while EPA testing has been updated on multiple occasions to better reflect real-world driving.
"Changing CAFE takes a congressional action; changing the EPA configurations doesn't," O'Dell said. "It's politically unsavory to change the CAFE number, because then you're admitting you're not getting that (efficiency)."

Hyundai, Kia corrected

In an unprecedented decision last year, the EPA made Hyundai and Kia restate fuel-efficiency claims on 900,000 vehicles in the United States. Mileage estimates were overestimated by 1 to 6 mpg.The EPA also is looking into Ford's fuel-efficiency claims on its new hybrids. The EPA has said it will buy a C-Max Hybrid — which fell 10 miles per gallon short of the EPA sticker figure in Consumer Reports testing — for further evaluation.
Automakers test their own vehicles; their estimates are then certified by the EPA.
The EPA has acknowledged it may have to reconsider testing procedures for hybrids to better emulate everyday consumer driving. The agency has said fuel efficiency could vary as much as 30 percent between the sticker and real-world mileage for those vehicles. Hybrids are equipped to achieve better fuel economy in stop-and-go traffic — the opposite of gas-powered cars and trucks — and that can skew mileage estimates.
Real-world fuel-efficiency numbers for all vehicles often differ greatly, depending on a variety of conditions and powertrains. Speed is the most significant factor: A study by the Oak Ridge National Laboratory found that fuel efficiency can decline as much as 26 percent if a vehicle is driven at 80 miles per hour, which is 10 miles per hour greater than the top speed limit in Michigan.
Outdoor temperature, oil type and tire pressure also can affect fuel efficiency, according to the U.S. Department of Energy.
The EPA defended its estimates in an email: "(The) EPA label values are intended to give consumers an approximation of the real-world fuel economy they will experience for individual vehicles. These estimates can help consumers make an informed decision when shopping for a new vehicle."

Gallons per mile better?

But even with testing changes, all vehicles' fuel-efficiency ratings will still be misleading, said Richard Larrick, professor of management at Duke University's Fuqua School of Business.
Larrick and his colleague, Jack Soll, say gallons per mile — GPM — is a more consumer-oriented way of measuring fuel efficiency.
Their study found in 2008 that most drivers thought going from 34 to 50 mpg saved more gas over 10,000 miles than an improvement from 18 to 28 mpg. In fact, the latter saves 198 gallons over that span, compared to 94 gallons.
Fuel efficiency in Europe is measured in GPM — actually, liters per 100 miles. But that yardstick is unlikely to be adopted in the U.S.
"It makes more sense and it's a lot easier once you understand it," O'Dell said of the gallons-per-mile calculation. "It's a lot easier to see where the savings are."
khenkel@detroitnews.com
(313) 222-2504

From The Detroit News:
http://www.detroitnews.com/article/20130213/AUTO01/302130353#ixzz2KmlHJ8eF

David Ganss
Transportation and Climate Division
U.S. EPA -- Office of Transportation and Air Quality
voice: 734-214-4471
fax: 734-214-4958
email: ganss.david@epa.gov

Message

From: Cohen, Janet [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D94B854E69CD4F9E80DB946BF9D1C1B2-COHEN, JANET]
Sent: 9/16/2013 9:18:54 PM
To: Le, Madison [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9297d8b52bcb41319ba40d11142ab307-Le, Madison]
CC: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Manners, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]; Greuel, Justin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=76f822fa08344d0b85f00cb408a6c520-JGREUEL]; Jackson, Cleophas [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=49ebd5e3637242ca84cfb4d53005a6d6-Jackson, Cleophas]; Weihrauch, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=74d426b7439045d9a0a65b186ea68b21-Jweihrau]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]
Subject: cd august report
Attachments: 9_16_13 CD August Highlights for CG.docx

Nice to see you Madison. Here's our August update. – j. -

September 16, 2013

CD August 2013 Highlights for Chris Grundler

Data

Deliberative Process / Ex. 5

Diesel Engines

Deliberative Process / Ex. 5

Gasoline Engines

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Light Duty Vehicles

EPA Coastdown Audit Testing

Deliberative Process / Ex. 5

Hyundai/Kia Investigation

- OECA almost ready to issue Notice of Violation (NOV) to Hyundai/Kia – next few weeks
- CD finalizing arguments for voiding some certificates ab initio
- Hyundai/Kia have been performing 2014 MY production vehicle coastdown audit testing at Michelin Test Track in South Carolina
    - Have tested six vehicle covering 4 vehicle classes – all results have been very good
    - Plan to perform more testing in Oct/Nov – have invited EPA to observe testing
    - All 2014 testing will be complete by April, 2014

Fuels

E15

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

California Waivers

Deliberative Process / Ex. 5

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 Through 2012

Executive Summary

ED_002576_00002364-00001

I. Executive Summary

Introduction

This report summarizes key trends in carbon dioxide (CO_2) emissions, fuel economy, and CO_2- and fuel economy-related technology for gasoline- and diesel-fueled personal vehicles sold in the United States, from model years (MY) 1975 through 2012. Personal vehicles are those vehicles that EPA classifies as cars, light-duty trucks, or medium-duty passenger vehicles. The data in this report cover the MY 1975-2012 timeframe, supersede the data in previous reports in this series, and, for many important reasons, should not be compared with data from previous years' editions of this report. Most CO_2 emissions and fuel economy values in this report have been adjusted to reflect "real world" consumer performance and therefore are not comparable to CO_2 emissions and fuel economy standards.

CO_2 emissions rates and fuel economy values reflect a very favorable multi-year trend beginning in MY 2005. Data for MY 2011 are final, but data for MY 2012 are preliminary and based on projected vehicle production values provided to EPA by manufacturers. The fleetwide average real world MY 2011 personal vehicle CO_2 emissions value is 398 grams per mile (g/mi) and average fuel economy is 22.4 miles per gallon (mpg), both slightly worse relative to MY 2010. Preliminary projections for MY 2012 are 374 g/mi CO_2 emissions and 23.8 miles per gallon, which, if realized, would represent one of the largest annual improvements since 1975.

One factor which almost certainly contributes to both the apparent slight worsening in MY 2011 and the large projected improvement in MY 2012 is the reduction in MY 2011 car and car parts production in Japan in the aftermath of the March 2011 earthquake, tsunami, and nuclear disasters. While it is impossible to project the precise impact, EPA estimates that the fleetwide average MY 2011 CO_2 emissions and fuel economy values would likely have been similar to or slightly better than MY 2010 levels if car production from major Japan-based manufacturers had not been constrained by the tragedies. Likewise, the improvement projected for MY 2012 would be somewhat smaller.

For more discussion of the key conclusions of this report, see the Highlights later in this Executive Summary.

What's New This Year

One change to this year's report is the addition of Section VIII on Alternative Fuel Vehicle Trends. Previous reports in this series have only included data for vehicles that are dedicated to or are expected to operate primarily on petroleum fuels, i.e., gasoline and diesel, and the primary Trends database that is the subject of this report (with the exception of Section VIII) continues to include data only from vehicles operated on petroleum fuels. Since 1975, these vehicles have represented well over 99 percent of all light-duty vehicles sold in the U.S. But, the number of vehicles dedicated to (or designed to operate frequently on) nonpetroleum fuels is increasing, and Section VIII provides relevant data from electric vehicles, plug-in hybrid electric vehicles, and compressed natural gas vehicles.

For the first time, EPA presents data on technology penetration rates by individual manufacturers, to complement the industry-wide data that have been included in the report for many years. For each manufacturer, data is presented for the maximum increases in technology deployment over 1-year, 3-year, and 5-year intervals for five "mature" technologies (fuel injection, lockup transmissions, front wheel drive, multi-valve engines, and variable valve timing) and three emerging technologies (6-speed transmissions, continuously variable transmissions, and gasoline direct injection engines). These new data are presented near the end of Section VI.

ED_002576_00002364-00002

Vehicle footprint data are of increasing interest, of course, because greenhouse gas emissions and CAFE standards are now footprint-based. This series of reports has been reporting footprint data since MY 2008. EPA received formal, comprehensive footprint data from manufacturers, for the first time, in the final CAFE compliance reports for MY 2011, and these data are included in this report. EPA will continue to receive, and report, formal footprint data from manufacturers in future years as well. It is important to note that, while some of the footprint data that EPA reports for MY 2008-2010 came from formal manufacturer submissions, EPA supplemented this with informal data from manufacturer websites and commercial websites, and EPA cannot be certain that the data from MY 2008-2010 is comparable, with respect to both precision and consistency, to the formal footprint data from MY 2011 and future years. For purposes of footprint trends over time, EPA has a higher level of confidence in data from MY 2011 and future years, and a lower level of confidence in data from MY 2008-2010.

The one change to manufacturer definitions in this year's report is that, due to new corporate financial relationships, Chrysler has been combined with Fiat, Ferrari, and Maserati to form the Chrysler-Fiat manufacturing group. Consistent with this new manufacturer definition and the long-standing approach of propagating current manufacturer definitions backwards in the historical database in order to protect the integrity of long-term trends, all historical Chrysler data now reflect production for the U.S. market for Fiat, Ferrari, and Maserati as well.

Two important changes initiated in the 2011 report have been retained in this year's report: 1) updating all car/truck classifications throughout the historical database to be consistent with the regulatory definitions used by the Department of Transportation's (DOT) National Highway Traffic Safety Administration (NHTSA) for Corporate Average Fuel Economy (CAFE) standards beginning in MY 2011 and by EPA and NHTSA for the greenhouse gas emissions and CAFE standards for MY 2012-2025, and 2) including medium-duty passenger vehicles (MDPVs), which include larger sport utility vehicles (SUVs) and passenger vans, but not the larger pickup trucks, in the 8500-10,000 pound gross vehicle weight rating (GVWR) range, beginning with MY 2011 data.

Finally, on November 2, 2012, EPA announced that we had found discrepancies between agency fuel economy test results and those submitted by Hyundai and Kia for some MY 2011-2013 vehicles. This report uses corrected MY 2011-2012 fuel economy and CO_2 emissions data submitted by Hyundai and Kia to EPA and used to re-label vehicles currently on the market. Corrected fuel economy values have been applied for four MY 2011 vehicles and for a majority of Hyundai and Kia vehicles for MY 2012 (and MY 2013). The magnitude of the changes between the original fuel economy label values and the corrected fuel economy label values ranges from 1 mpg to 6 mpg. For the changes in fuel economy label values for individual vehicles, see http://www.epa.gov/fueleconomy/labelchange.htm. Since EPA's investigation into the companies' data submissions is continuing, EPA believes it would be a mistake to make any conclusions about industry "leadership" with respect to fuel economy and CO_2 emissions for MY 2011 or to the preliminary values for MY 2012.

ED_002576_00002364-00003

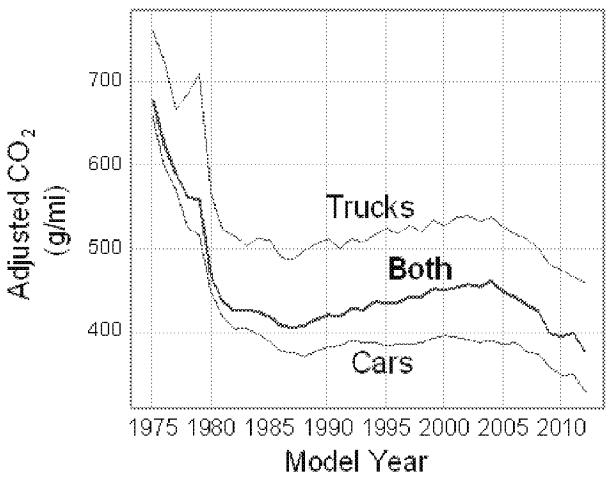
Highlight #1: CO_2 emissions rates and fuel economy values reflect a very favorable multi-year trend beginning with MY 2005.

MY 2011 adjusted composite CO_2 emissions were 398 g/mi, a 4 g/mi increase relative to the record low set in MY 2010. MY 2011 adjusted composite fuel economy was 22.4 mpg, 0.2 mpg lower than the historic high set in MY 2010. Preliminary MY 2012 values are 374 g/mi CO_2 emissions and 23.8 mpg fuel economy, which, if achieved, will be among the largest single year improvements since 1975.

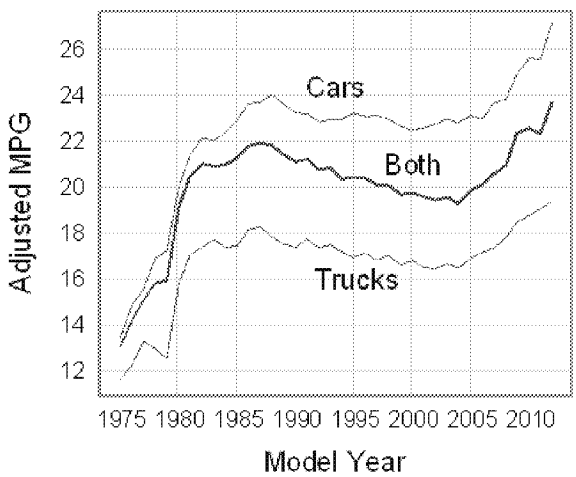
One factor which contributes to both the apparent slight worsening in MY 2011 and the large projected improvement in MY 2012 is the reduction in MY 2011 car and car parts production in Japan in the aftermath of the March 2011 earthquake, tsunami, and nuclear disasters. For example, MY 2011 car production by Toyota and Honda was over 500,000 units lower relative to MY 2010, while the rest of the industry, collectively, increased car production in MY 2011. While it is impossible to project the precise impact, since some of this lower car production was likely captured by other manufacturers, EPA estimates that the fleetwide average MY 2011 CO2 emissions and fuel economy values would likely have been similar to or slightly higher than MY 2010 levels if car production from major Japan-based manufacturers had not been constrained by the tragedies. Likewise, the improvement projected for MY 2012 would be somewhat smaller.

While year-to-year changes often receive the most public attention, annual values can be volatile for many reasons and the greatest value of the historical trends database is the identification and documentation of longer-term trends. For example, there have been three major factors that have contributed to year-to-year volatility since 2009: the economic recession in MY 2009, rising and volatile gasoline and diesel fuel prices, and the impact of the tsunami aftermath on Japan-based manufacturers. Using a 5-year timeframe (2006 and 2007 are good base years since there was little market volatility), CO2 emission rates have decreased by 10 percent and fuel economy values have increased by 11 percent from MY 2006-2011, and based on preliminary estimates, CO2 emission rates have decreased by 13 percent and fuel economy values have increased by 16 percent from MY 2007-2012. The improvements have been even greater since the "valley" year in 2004.

Adjusted CO_2 Emissions



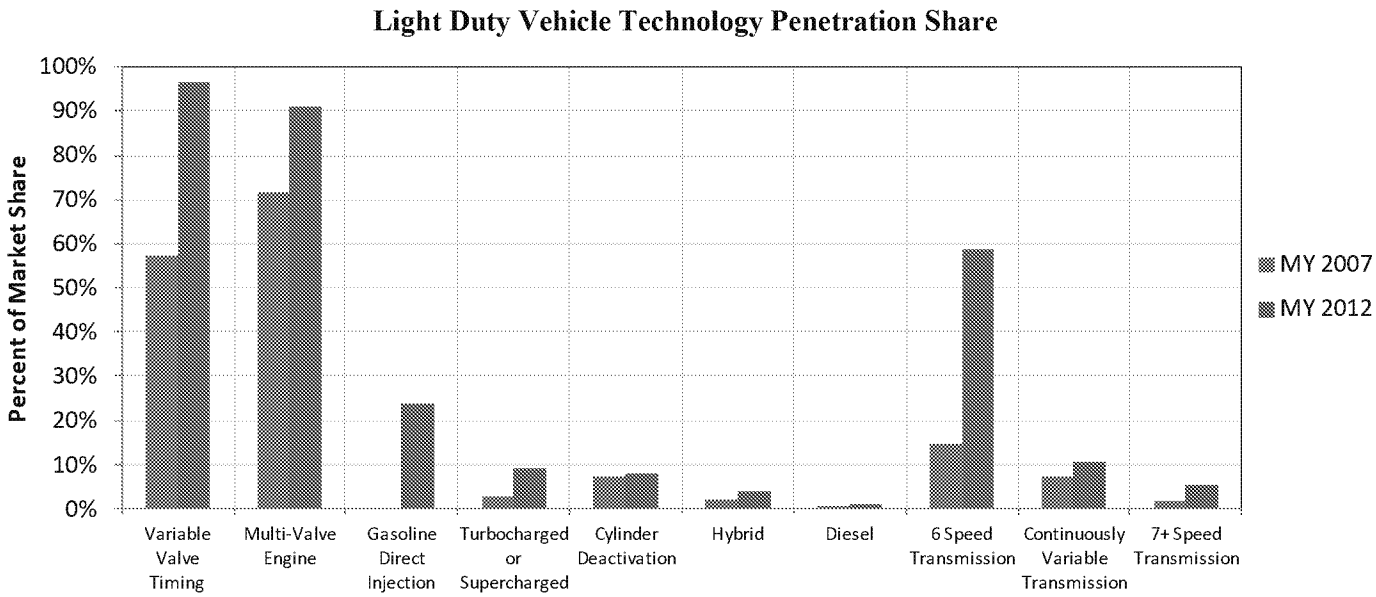
Adjusted Fuel Economy



Highlight #2: Many new technologies are rapidly gaining market share.

New technologies are continually being introduced into the marketplace, while older and less effective technologies are removed from the market. Technological innovation is a major driving force behind the recent improvements in CO2 emissions and fuel economy, and the majority of the carbon and oil savings from current vehicles is due to new conventional gasoline vehicle technologies.

Two engine technologies first introduced over 20 years ago—variable valve timing and multi-valve—are projected to be used on 90 percent or more of all MY 2012 vehicles. Through the mid-1980s, most vehicles relied on carburetors to deliver fuel to the engine. Carburetors were replaced by fuel injection systems in the late 1980s. Now, in some vehicles, conventional fuel injection systems are being replaced by more sophisticated gasoline direct injection systems, the use of which has grown from essentially zero in MY 2007 to a projected 24 percent of the market in MY 2012. The use of turbochargers/superchargers has tripled from about 3 percent in MY 2007 to a projected 9 percent in MY 2012, while the use of cylinder deactivation has remained in the 8-9 percent range. The use of both conventional hybrids and diesel vehicles has increased slightly since MY 2007.



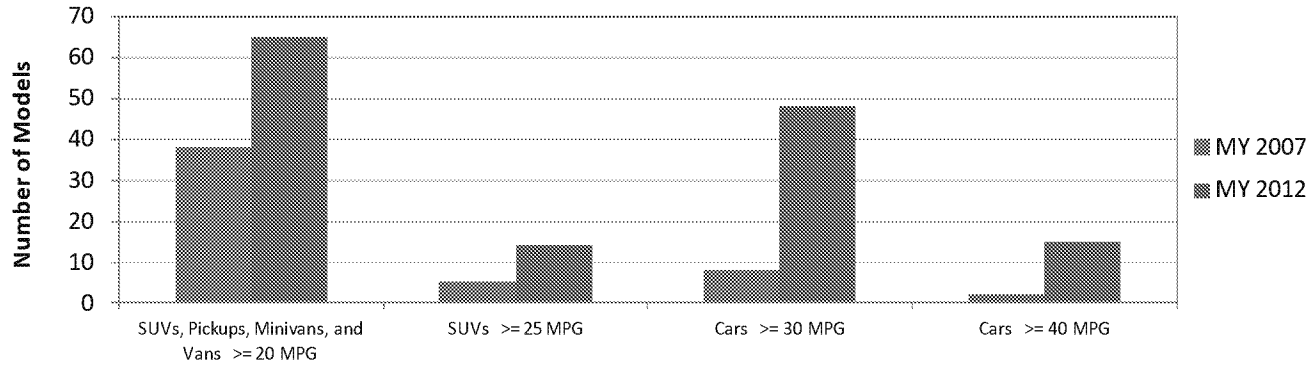
Recent changes in transmission technology adoption are particularly impressive. Through 2005, the 4 gear transmission was the dominant automatic transmission. Transmissions with 6 or more speeds and continuously variable transmissions cumulatively accounted for about 25% of vehicle production in MY 2007, but are projected to reach 75% market share in MY 2012.

See Section VI for more detailed data on technology trends in general, as well as for new data on the maximum technology penetration rates for individual manufacturers.

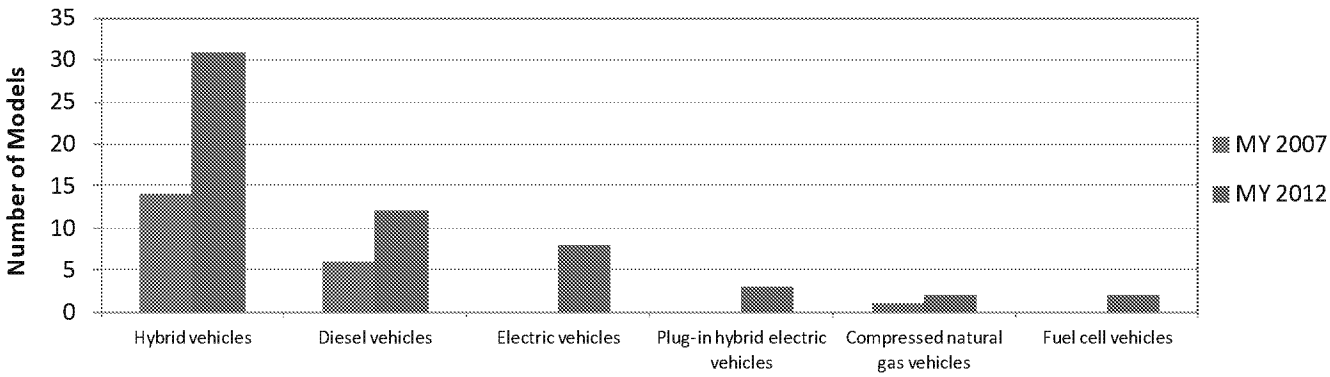
ED_002576_00002364-00005

Highlight #3: Consumers have an increasing number of high fuel economy/low CO_2 vehicle choices.

The U.S. personal vehicle market is diversifying, and consumers now have a much broader range of vehicle choices with respect to environmental performance and powertrain technology. The number of SUV, pickup, minivan, and van models that have combined EPA label values of 20 mpg or more have increased by 70%, from 38 in 2007 to 65 in 2012. There are almost 3 times more SUVs with combined labels of 25 mpg or more and 6 times more cars with ratings of 30 mpg or more. The number of cars with 40 mpg or more have increased from 2 in 2007 to 15 in 2012.



There are also many more advanced technology vehicle choices. In MY 2007, the only technology for which there were meaningful choices was conventional hybrids (and, to a lesser degree, diesel vehicles). Today, not only are there about twice as many conventional hybrids and diesels in the market, but growing numbers of electric vehicles, plug-in hybrid electric vehicles, natural gas vehicles, and fuel cell vehicles as well. Some of these alternative fueled vehicles have limited consumer availability, for example, the two fuel cell vehicles are only available to some consumers in selected California markets.



For this analysis, the authors used engineering judgment to differentiate between those configurations that are generally marketed and perceived by consumers to be the same model (e.g., 2WD/4WD, different engine sizes, and different trim levels were treated as one model) versus those configurations that are generally marketed and perceived by consumers to be unique vehicle choices (e.g., vehicles which are marketed separately and have distinct vehicle sizes such as the Prius, Prius v, and Prius c). This same approach was used for both MY 2007 and MY 2012. All fuel economy values in this highlight are consistent with label values and classifications. For more detail on this analysis, see the brochure and technical support memorandum at http://www.epa.gov/nvfel/showcase.htm. See fueleconomy.gov for formal EPA label values for individual vehicles.

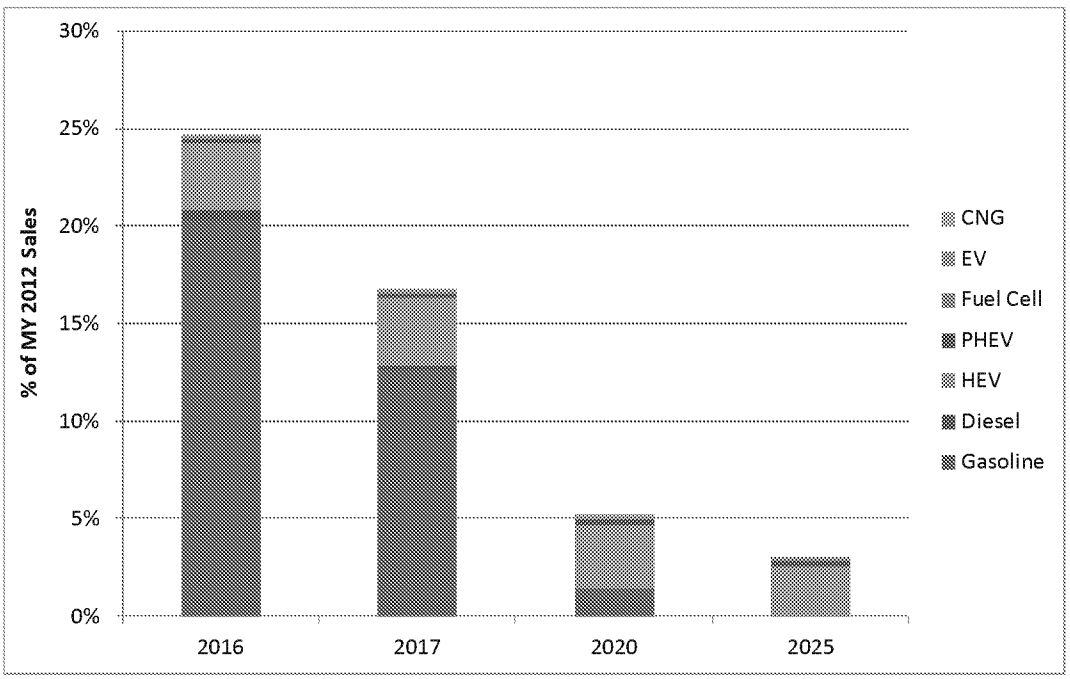
Highlight #4: Manufacturers are selling many vehicles today that can meet future CO_2 emission targets.

EPA evaluated MY 2012 vehicles against future footprint-based CO_2 targets to determine which vehicles could meet or exceed the targets in model years 2016-2025.

Nearly 25% of projected MY 2012 vehicle sales already meet the 2016 CO_2 targets, or can meet these targets with the addition of expected air conditioning improvements. This corresponds to approximately 80 MY 2012 vehicle models in showrooms today, and includes a wide range of vehicle segments, including cars, SUVs, minivans, and pickup trucks. The majority of these vehicles are non-hybrid gasoline vehicles, although other technologies, including hybrids, electric vehicles, and diesel vehicles are also represented.

Looking ahead, there are about 20 vehicle models (3% of today's sales) that can meet the 2025 CO_2 targets. While gasoline vehicles make up the majority of the vehicles meeting the 2016 targets, the vehicles meeting the 2025 targets include only hybrids, plug-in hybrids, electric vehicles, and fuel cell vehicles. However, since the 2025 standards are 13 model years away, there's considerable time for continued improvements in gasoline vehicle technology.

MY 2012 Vehicle Sales (Projected) That Meet Future CO_2 Targets, by Technology



EPA's new emissions standards for light-duty vehicles are projected to result in an average industry fleet-wide compliance level of 163 grams/mile of CO_2 by 2025, or 54.5 mpg if achieved exclusively from fuel economy improvements. The CO_2 targets vary by a vehicle's size, or "footprint," so automakers can continue offering consumers a full range of vehicle choices with the utility customers want. EPA assumed the addition of only air conditioning improvements since these are straightforward improvements and some of the least expensive technologies available to reduce CO_2 and other greenhouse gas emissions. See the "Regulatory Context" section below for more information on fuel economy and CO_2 standards.

Highlight #5: Most manufacturers continue to increase fuel economy, resulting in lower CO_2 emission rates.

Seven of the 11 manufacturers shown below increased fuel economy from MY 2010 to MY 2011, the last two years for which we have definitive data. Preliminary MY 2012 values suggest that all manufacturers will improve in MY 2012, several by 20 g/mi CO_2 or more and 1.5 mpg or more, though these projections are uncertain and EPA will not have final data until next year's report.

In MY 2011, for the 11 manufacturers shown, Volkswagen had the lowest fleetwide adjusted composite CO_2 emissions and highest adjusted fuel economy performance, followed by Mazda and then a tie between Honda and Toyota. All of these manufacturers have average footprint values lower than the industry average. Daimler had the highest CO_2 emissions (and lowest fuel economy), followed by Chrysler-Fiat and GM. VW had the biggest improvement in adjusted CO_2 (and fuel economy) performance from MY 2010 to MY 2011, with a 14 g/mi reduction in fleetwide CO_2 emissions (and 1.0 mpg fuel economy improvement), followed by Ford (13 g/mi reduction in CO_2 emissions and 0.7 mpg improvement). The higher CO_2 and lower fuel economy values for Honda and Toyota in MY 2011 are at least partially explained by the lower car production in Japan due to the March 2011 tsunami. Section VII has greater detail on the fuel economy and CO_2 emissions for these manufacturers (e.g., for individual manufacturer car and truck fleets), as well as for these manufacturers' individual makes (i.e., brands).

MY 2010–2012 Manufacturer Fuel Economy and CO_2 Emissions

Manufacturer	MY2010 MPG	MY2010 CO_2 (g/mi)	MY2011 MPG	MY2011 CO_2 (g/mi)	MY2012 MPG	MY2012 CO_2 (g/mi)
VW	25.0	363	26.0	349	26.2	346
Mazda	24.4	364	25.0	356	25.9	343
Toyota	25.4	350	24.1	369	25.6	347
Honda	24.9	357	24.1	369	26.4	337
Subaru	23.4	379	23.9	372	25.2	353
Nissan	23.1	384	23.3	381	24.6	361
BMW	22.1	404	22.7	393	23.1	386
Ford	20.4	435	21.1	422	23.2	382
GM	21.3	418	20.7	429	21.4	415
Chrysler-Fiat	19.5	455	19.4	458	20.6	431
Daimler	18.9	471	19.1	469	21.4	418
All	22.6	394	22.4	398	23.8	374

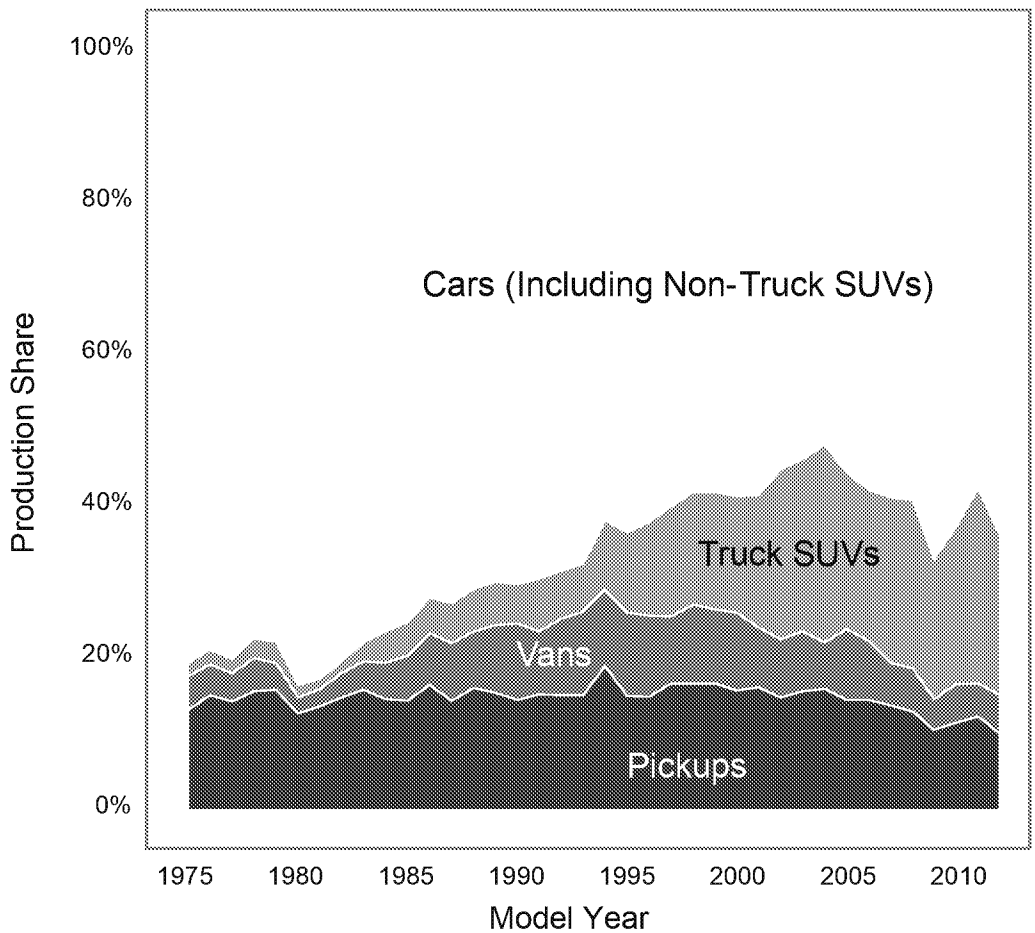
ED_002576_00002364-00008

Highlight #6: Truck market share continues to be volatile.

Light trucks, which include pickup trucks, minivans/vans, and most SUVs, accounted for 42 percent of all light-duty vehicle production in MY 2011. This represents a 5 percent increase over MY 2010. The MY 2012 light truck market share is projected to be 36 percent, based on pre-model year production projections by automakers, which, if realized, would return truck market share to slightly below the MY 2010 level and to the second lowest level since 1993.

Truck market share has been very volatile in recent years, decreasing by 8 percent in MY 2009, and increasing by 4 percent in MY 2010 and by 5 percent in MY 2011. Two factors that have likely contributed to the volatility in truck share include: 1) MY 2009 was a particularly unusual year due to the serious economic recession that led to much turmoil in the automotive market and almost certainly led to an artificially low truck production share in that year, which then results in an apparently larger truck production share increase since MY 2009; and 2) the earthquake, tsunami, and nuclear tragedies in Japan in March 2011 almost certainly decreased the supply of cars from Japan (possibly trucks as well, but likely more cars than trucks), which likely contributed to the higher truck share in MY 2011 (as well as to the projected lower truck share in MY 2012).

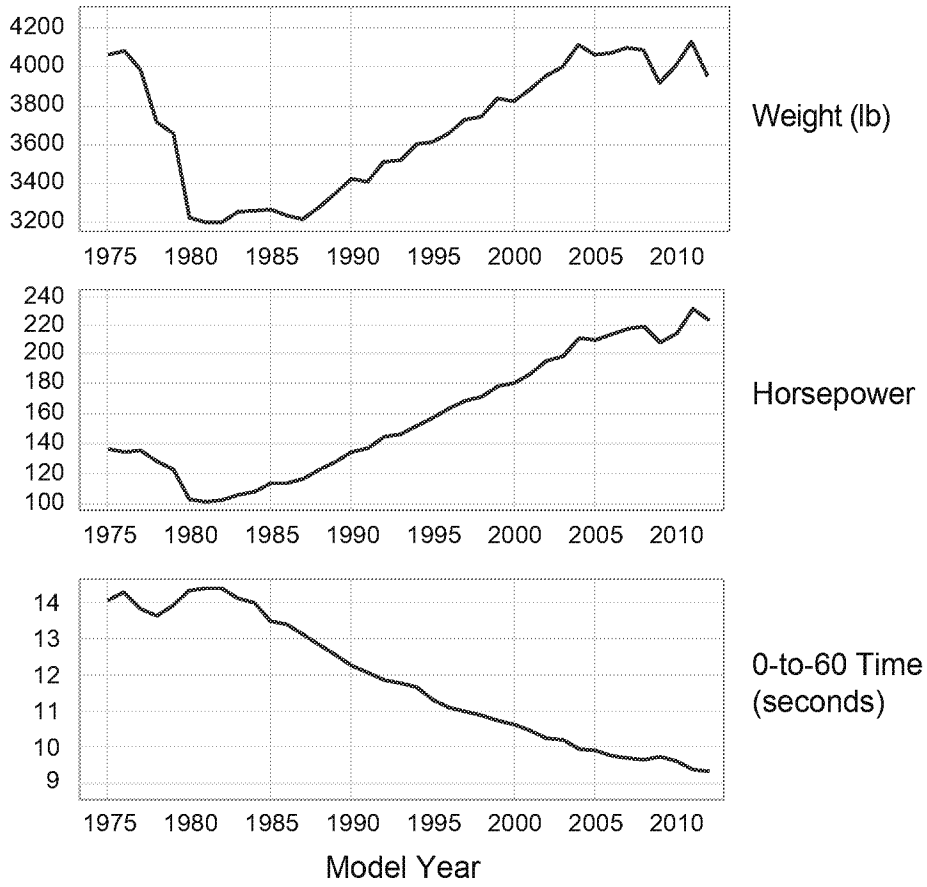
Production Share by Vehicle Type



Highlight #7: Vehicle power is at a record high, while the vehicle weight trend is generally flat.

MY 2011 vehicle weight averaged 4127 pounds, an increase of 125 pounds compared to MY 2010. The average car weight increased 81 pounds and truck weight increased 40 pounds, and the remaining difference was due to higher truck market share. In MY 2011, the average vehicle power was 230 horsepower, an increase of 16 horsepower since MY 2010. Car power increased by 10 horsepower and truck power increased by 18 horsepower, and the remaining difference was due to higher truck market share. Estimated MY 2011 0-to-60 acceleration time decreased to 9.4 seconds. Preliminary MY 2012 values suggest that average vehicle weight and power will both decrease, though these projections are uncertain and EPA will not have final data until next year's report. While the preliminary MY 2012 weight value is lower than all but one year since 2001, the preliminary MY 2012 power value would still be the second highest value ever, exceeded only by MY 2011.

Weight, Horsepower and 0-to-60 Performance



Vehicle weight and performance are two of the most important engineering parameters that help determine a vehicle's CO2 emissions and fuel economy. In general, all other factors being equal, higher vehicle weight (which supports new options and features) and faster acceleration performance (e.g., lower 0-to-60 mile-per-hour acceleration time), both increase a vehicle's CO2 emissions and decrease fuel economy. From MY 1987 through MY 2004, on a fleetwide basis, automotive technology innovation was generally utilized to support market-driven attributes other than CO2 emissions and fuel economy, such as vehicle weight, performance, and utility. Beginning in MY 2005, technology has been used to increase both fuel economy (which has reduced CO2 emissions) and performance, while keeping vehicle weight relatively constant.

Regulatory Context

CAFE standards have been in place since 1978. NHTSA has the responsibility for setting and enforcing CAFE standards. EPA is responsible for establishing fuel economy test procedures and calculation methods, and for collecting data used to determine vehicle fuel economy and manufacturer CAFE levels.

For MY 2012 through 2025, EPA and NHTSA have jointly developed a harmonized National Program which established EPA greenhouse gas emissions standards and NHTSA CAFE standards that allow manufacturers to build a single national fleet to meet requirements of both programs while ensuring that consumers have a full range of vehicle choices. The National Program has been supported by a wide range of stakeholders: most major automakers, the United Auto Workers, the State of California, and major consumer and environmental groups.

In 2010, the agencies finalized the first harmonized standards for MY 2012-2016 (75 Federal Register 25324, May 7, 2010). The standards for MY 2012 are now in effect, and are projected to require average fleetwide CO2 emissions compliance of about 295 g/mi and average CAFE compliance of about 29.3 mpg (actual fleetwide compliance levels will depend on the mix of vehicle footprint levels). By MY 2016, the average industry-wide compliance levels for these footprint-based standards are projected to be 250 g/mi CO2 and 34.1 mpg CAFE. The 250 g/mi CO2 compliance level would be equivalent to 35.5 mpg if all CO2 emissions reductions are achieved through fuel economy improvements. In 2012, the agencies finalized additional harmonized standards for MY 2017-2025 (77 Federal Register 62624, October 15, 2012). By MY 2025, the average industry-wide compliance levels are projected to be 163 g/mi CO2 and 48.7-49.7 mpg CAFE. The 163 g/mi CO2 compliance level would be equivalent to 54.5 mpg if all CO2 emissions reductions are achieved solely through improvements in fuel economy. For both MY 2012-2016 and MY 2017-2025, the agencies expect that a portion of the required CO2 emissions improvements will be achieved by reductions in air conditioner refrigerant leakage, which would not contribute to higher fuel economy.

Automaker compliance with both CO2 and CAFE standards is based on unadjusted laboratory CO2 and fuel economy values, along with various regulatory incentives and credits. Neither unadjusted laboratory nor adjusted composite CO2 and fuel economy values reflect various incentives (e.g., flexible fuel vehicles for CAFE and CO2 standards) and credits (air conditioner and other off-cycle technologies for CO2 standards) that are available to manufacturers for regulatory compliance. With real world (i.e., 5-cycle label) adjustments, alternative fuel vehicle credits, and test procedure adjustments, fleetwide CAFE compliance values are a minimum of 25 percent higher than EPA adjusted (5-cycle) fuel economy values. See Appendix A for a detailed comparison of EPA adjusted and laboratory fuel economy values and CAFE compliance values.

Notes on Data Contained in This Report

This report supersedes all previous reports in this series. Users of this report should rely exclusively on data in this latest report, which covers MY 1975 through 2012, and not make comparisons to data in previous reports in this series. There are several reasons for this.

One, EPA revised the methodology for estimating "real-world" (i.e., label) fuel economy values in December 2006. Every adjusted (ADJ) fuel economy value in this report for 1986 and later model years is lower than given in reports in this series prior to the 2007 report. See Appendix A for more in-depth discussion of the current methodology and how it affects both the adjusted fuel economy values for individual models and the historical fuel economy trends database. This same methodology is used to calculate adjusted CO_2 emissions values as well. Two, beginning with the 2011 report, most small, 2-wheel drive SUVs were reclassified from trucks to cars for the entire

ED_002576_00002364-00011

MY 1975-2012 database. Beginning with the 2011 report, all car/truck classifications in this database are consistent with determinations made by NHTSA for CAFE standards beginning in MY 2011 and EPA for CO_2 emissions standards for MY 2012 and later. Three, when EPA changes a manufacturer or vehicle make definition to reflect a change in the industry's current financial arrangements, EPA makes the same adjustment in the historical database as well. This maintains a consistent manufacturer/make definition over time, which allows the identification of long-term trends. On the other hand, it means that the database does not necessarily reflect actual past financial arrangements. For example, the 2012 database, which includes data for the entire time series MY 1975 through 2012, accounts for all Chrysler, Fiat, Ferrari, and Maserati vehicles in the 1975-2012 timeframe under the Chrysler-Fiat manufacturer designation, and does not reflect that Chrysler was combined with Daimler for several years nor that there was no historic relationship between Chrysler and Fiat/Ferrari/Maserati.

The great majority of the CO_2 emissions and fuel economy values in this report are EPA adjusted composite (ADJ COMP) city/highway real-world estimates provided to consumers and based on EPA's 5-cycle test methodology (which represent city, highway, high speed/high acceleration, high temperature/air conditioning, and cold temperature driving) that was first implemented in MY 2008. Appendix A provides a detailed explanation of the method used to calculate these adjusted fuel economy and CO_2 values, which last changed with the 2007 version of this report. All adjusted composite city/highway fuel economy values in this report use a 43 percent city/57 percent highway weighting to be consistent with the national driving activity analysis underlying EPA's 5-cycle fuel economy label methodology. In 2011, EPA and NHTSA revised the fuel economy and environment label to include, among other things, grams of CO_2 emissions per mile and a fuel economy and greenhouse gas emissions rating (76 Federal Register 39478, July 6, 2011).

In some tables, the report also provides unadjusted EPA laboratory (LAB) values, which are based on a 2-cycle test methodology (city and highway tests only) and are the basis for automaker compliance with CO_2 emissions and CAFE standards. All combinations of adjusted or laboratory, and CO_2 emissions or fuel economy values, may be reported as city, highway, or, most commonly, as composite (combined city/highway).

Because the underlying methodology for generating unadjusted laboratory CO_2 emissions and fuel economy values has not changed since this series began in the mid-1970s, these values provide a basis for comparing long-term CO_2 emissions and fuel economy trends from the perspective of vehicle design, apart from the factors that affect real-world driving that are reflected in the adjusted values. Laboratory composite values represent a harmonic average of 55 percent city and 45 percent highway operation, or "55/45" (the historic 55 percent city/45 percent highway weighting is still used for both CAFE compliance and the combined value on individual fuel economy labels). For 2005 and later model years, unadjusted laboratory composite CO_2 emissions values are, on average, about 20 percent lower than adjusted composite CO_2 values, and unadjusted laboratory composite fuel economy values are, on average, about 25 percent greater than adjusted composite fuel economy values. Neither unadjusted laboratory nor adjusted composite CO_2 and fuel economy values reflect various incentives and credits that are available to manufacturers for regulatory compliance.

Through MY 2011, the CO_2 emissions, fuel economy, vehicle characteristics, and vehicle production volume data used for this report were from the formal end-of-year submissions from automakers obtained from EPA's fuel economy database that is used for CAFE compliance purposes. For preliminary MY 2012 data, EPA has exclusively used confidential pre-model year production volume projections from automaker label submissions. Accordingly, MY 2012 projections are uncertain. Historically, as shown in Table A-1, the differences between the initial unadjusted laboratory fuel economy estimates based on vehicle production projections and later, final values have typically been within a few tenths of a mile per gallon. But, the market turmoil in MY 2009 was a major exception in this regard, as the final MY 2009 unadjusted laboratory fuel economy value from the 2010 report was 1.8 mpg higher

ED_002576_00002364-00012

than the preliminary unadjusted laboratory value for MY 2009 from the 2009 report based on projected production volumes. The final MY 2011 unadjusted laboratory fuel economy value is 0.5 mpg lower than the preliminary unadjusted laboratory fuel economy value for MY 2011 in the 2011 report based on projected production volumes.

The primary database in this report includes data only from vehicles certified to operate on gasoline or diesel fuel, from laboratory testing with test fuels as defined in EPA test protocols (e.g., with zero ethanol). It includes data from ethanol flexible fuel vehicles, which can operate on gasoline or an 85 percent ethanol/15 percent gasoline blend or any mixture in between, operated on gasoline only. Data from the small number of vehicles that are certified to operate only on alternative fuels or are expected to operate frequently on alternative fuels (such as plug-in hybrid electric vehicles or dual-fuel compressed natural gas vehicles) are not included in this primary database because they currently represent less than 0.2 percent of all sales and because the emissions and fuel economy data from alternative fuel vehicles raise issues with respect to the metrics that are used in this report. See the new Section VIII for relevant data from these alternative fuel vehicles.

Vehicle population data in this report represent production delivered for sale in the U.S., rather than actual sales data. Automakers submit production data in formal end-of-year CAFE compliance reports to EPA, which is the basis for this report. Accordingly, the production data in this report may differ from sales data reported by press sources, because not all vehicles produced for sale in a given model year will necessarily be sold in that model year. In addition, the data presented in this report are tabulated on a model year, not calendar year, basis.

ED_002576_00002364-00013

For More Information

Light-Duty Automotive Technology, Carbon Dioxide Emissions, and Fuel Economy Trends: 1975 through 2012 (EPA-420-R-XX-XXX) is available on the Office of Transportation and Air Quality's (OTAQ) Web site at:

www.epa.gov/otaq/fetrends.htm

Printed copies are available from the OTAQ library at:

U.S. Environmental Protection Agency
Office of Transportation and Air Quality Library
2000 Traverwood Drive
Ann Arbor, MI 48105
(734) 214-4311

A copy of the *Fuel Economy Guide* giving city and highway fuel economy data for individual models is available at:

www.fueleconomy.gov

or by calling the U.S. Department of Energy at (800) 423-1363.

For information about EPA's Greenhouse Gas Emissions Standards, see:

[HYPERLINK "http://epa.gov/otaq/climate/regulations.htm"]

For information about the EPA/Department of Transportation (DOT) Fuel Economy and Environment Labels, see:

[HYPERLINK "http://epa.gov/otaq/carlabel"]

For information about DOT's Corporate Average Fuel Economy (CAFE) program, including a program overview, related rulemaking activities, and summaries of the fuel economy performance of individual manufacturers since 1978, see:

[HYPERLINK "file:///C:\\Documents%20and%20Settings\\jamierogers\\Local%20Settings\\Temporary%20Internet%20Files\\Content.Outlook\\JUDD8TVO\\%09http:\\www.nhtsa.dot.gov"]/fuel-economy

ED_002576_00002364-00014

Message

From: Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]
Sent: 1/17/2013 7:12:22 PM
To: Shaffer, Patricia [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=47ce854437af49dab8ab700a46837fd5-PShaffer]; Judi Berrier [Berrier.JudiLNDU@usepa.onmicrosoft.com]
CC: Hula, Aaron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; Hengst, Benjamin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c414e2bf04a246bb987d88498eefff06-Hengst, Benjamin]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Nam, Ed [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Justin Cohen [Cohen.Justin@epa.gov]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bolon, Kevin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7c0684aaef44174801c0406b51034d2-Bolon, Kevin]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Venu Ghanta [Ghanta.VenuLNDU@usepa.onmicrosoft.com]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]
Subject: Final slides for Friday 11:30 briefing with Chris on 2012 Trends report
Attachments: Slides-Chris 01 18 13.pptx

A few minor changes have been made to the slides. Do not make your own copy of these slides, there will be copies made in both DC and AA.

Pat, please make 5 copies for DC. 2 slides per page, double-sided, works well.

Judi, please make 10 copies for AA.

Slides-Chris 01 18 13.pptx

Message

From: Jeff Alson [Alson.JeffLNDU@usepa.onmicrosoft.com]
Sent: 1/16/2013 9:54:35 PM
To: Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Justin Cohen [Cohen.Justin@epa.gov]
CC: Hula, Aaron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; Hengst, Benjamin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c414e2bf04a246bb987d88498eefff06-Hengst, Benjamin]; Nam, Ed [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2653f1ddd59470688ba557dd84d9690-Nam, Ed]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Venu Ghanta [Ghanta.VenuLNDU@usepa.onmicrosoft.com]; Bolon, Kevin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7c0684aaef44174801c0406b51034d2-Bolon, Kevin]
Subject: Slides for Fri, Jan. 18 briefing with Chris on 2012 Trends report
Attachments: Slides-Chris 01 18 13.pptx

This briefing was rescheduled for this Friday at 11:30. I hope at least one person from CD and ASD can attend as we hope this is a decision meeting.

We intend to focus only on the first 8 slides that address recent developments and the decision that we need to make on whether to publish the 2012 report or not. If we do release the report, we need CD, in particular, to help us wordsmith what we say about the Hyundai-Kia data (see draft text on slide 4). The longer set of slides in the appendix would be used to brief Gina and/or the interagency review group, if appropriate.

Slides-Chris 01 18 13.pptx

Let me know if you have any comments.

Message

From: Pugliese, Holly [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E59863CB0B4B48AE197C4C44F064B0-PUGLIESE, HOLLY]
Sent: 1/14/2013 1:18:07 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: Re: Fw: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG

I like your edits. I'll add your signature and close it out.

thanks.

Holly

From: Byron Bunker/AA/USEPA/US

To: Holly Pugliese/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/11/2013 05:06 PM
Subject: Re: Fw: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG

Hi Holly,

You are sounding more and more like me every day. I am sorry for that.

Thanks for flagging the part about his experience with the salesman. I made a few suggested edits based on his letter.

Thanks,

Byron

[attachment "OAR-12-002-0859 Hyunda FE Complaintv2.docx" deleted by Holly Pugliese/AA/USEPA/US]

****
Byron Bunker
Division Director
Compliance Division
Office of Transportation and Air Quality
US Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
(734) 214-4155
(734) 214-4053 (fax)
(734) 353-9623 (cell)
e-mail: bunker.byron@epa.gov
****

From: Holly Pugliese/AA/USEPA/US

To: Byron Bunker/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/11/2013 09:07 AM
Subject: Fw: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG

Here is my stab at this one. Let me know what you think.

[attachment "OAR-12-002-0859 Hyunda FE Complaint.docx" deleted by Byron Bunker/AA/USEPA/US]

Holly A. Pugliese
Office of Transportation and Air Quality
US EPA
734.214.4288
pugliese.holly@epa.gov
----- Forwarded by Holly Pugliese/AA/USEPA/US on 01/11/2013 09:06 AM -----

From: Kay Larsen/AA/USEPA/US
To: Holly Pugliese/AA/USEPA/US@EPA
Cc: Linc Wehrly/AA/USEPA/US@EPA
Date: 01/03/2013 01:16 PM
Subject: CMS New Assignment - - OAR-12-002-0859 Hyundai Sonata - MPG

Hi,

Please prepare a response for this control, for the signatue of Byron.

Due to me by: Tuesday, January 15, 2013

thanks,
Kay

[attachment "OAR-12-002-0859.Cheadle.Hyundai Sonata.mpg.pdf" deleted by Byron Bunker/AA/USEPA/US]
------ Forwarded by Kay Larsen/AA/USEPA/US on 01/03/2013 01:14 PM ------

From: cmsadmin@epa.gov
To: Kay Larsen/AA/USEPA/US@EPA
Date: 01/02/2013 03:15 PM
Subject: CMS New Assignment - Tanya Meekins - OAR-12-002-0859

Control OAR-12-002-0859 has been assigned to your office on 1/2/13 3:15 PM by Tanya Meekins. Please go to the CMS webpage to view the details of the control.

Summary Information -
Control Number: OAR-12-002-0859
Control Subject: I am writing in relation to the articles in the Washington Post in early November 2012 relating to Hyundai (and Kia) vehicles not coming anywhere near the mileage

advertised in the EPA estimated m.p.g. sticker on all new vehicles.
From: Citizen Name / Ex. 6

Note: This Email was automatically generated. Please do not attempt to respond to it. You can access this control at https://cms.epa.gov/cms. Questions or comments concerning CMS should be directed to CMS Support at 202-564-4985 or CMS Information@epa.gov.

Message

From: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3BE58C2CC8545D88CF74F3896D4460F-GRUNDLER, CHRISTOPHER]
Sent: 2/22/2013 1:53:27 AM
To: Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6ec0000a0259452fa0f4d1c390a96859-jucohen]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: Re: KC Star editorial and article

This is outline for letter:

-we were asked to comment on an ongoing enforcement investigation, and of course we coukd not discuss
-we were never asked about how we do fe testing and we would have loved to talk about our work, and hosted your reporter at our lab
-we would have pointed out how we did not wait for pressure from ngo's to initiate HK investigation
-that we reinitiated audits of coastdown testing 2 years ago and begun doing our own tests ouselves beginning early last year
-that we take our job of providing sound info and ensuring a level playing field very seriously
-that we will continue to be vigilant so that consumers can trust the label

---

From: Cohen, Justin
Sent: Thursday, February 21, 2013 6:32:13 PM
To: Grundler, Christopher
Subject: KC Star editorial and article

Per your request. But don't let reading it ruin your nice dinner!

EPA botches oversight of car mileage claims

The Kansas City Star
The following editorial appeared in the Kansas City Star on Tuesday, Feb. 19:
Indeed, the mileage claims made by automakers play a key role in a multibillion-dollar industry that deserves close government scrutiny. But what happens when the regulators fall down on the job?
The federal Environmental Protection Agency has failed consumers with its abysmal handling of a controversy involving the fuel efficiency of some recent Hyundai and Kia vehicles.
As detailed in The Kansas City Star on Sunday, the EPA won't tell the public specifics about the problems involving auto mileage estimates from the two automakers.
The EPA also won't comment when asked about how well the annual fuel economy standard tests are overseen by the government these days.
Finally, it's extremely disappointing that environmental groups had to pressure the EPA for many months to even do its job and check into complaints about lower-than-expected mileage for certain vehicles.
The entire episode amounts to a shocking dereliction of duty by the EPA. It also, unfortunately, gives critics in Congress ammunition to attack the agency, which has important roles to play when it comes to cleaning up the nation's air and water.
For decades, the America public has come to believe that the EPA essentially endorses whatever mileage statements are made by General Motors, Ford, Chrysler, Toyota, Honda and other carmakers.
But the controversy involving Hyundai and Kia tarnishes those two companies and the EPA. Plus, other major auto manufacturers such as GM are left to wonder whether the public will now distrust their estimates, too.

So were the recent errors honest mistakes? No one knows because the carmakers have not disclosed exactly what might have gone wrong.
Another problem: The EPA reportedly does not hire an outside expert to randomly check vehicles on the accuracy of their stated mileage claims using the same test that apparently brought to light the latest problems. Why did the agency stop such monitoring? Will it restart the program?
Cue up the once-again mum EPA officials who, as The Star noted, also refused to provide documents about the entire matter.
So much for being a public watchdog. In this case, the EPA seems more like an apologist for bad behavior by parts of the auto industry.

Posted on Sat, Feb. 16, 2013

Can consumers trust the EPA mileage stickers on cars?

By STEVE EVERLY
The Kansas City Star

When consumers buy a car, they take the EPA's mileage sticker — such as 33 miles per gallon highway, 27 city — as a fair comparison with other vehicles.

But does the sticker always deserve that trust?

The United States is thought to have the toughest fuel economy standards and enforcement in the world. But that reputation suffered a black eye in November when the Environmental Protection Agency announced that Hyundai and Kia had overstated the fuel mileage for 900,000 vehicles sold in the U.S. by as much as 6 miles a gallon.

Hyundai Motor Group, which makes both brands, made the inflated mileage claims on 13 models of cars and SUVs for about two years, often boasting of the high mileage in ads. It since has apologized and decided on its own to compensate owners of the vehicles, setting aside more than $400 million to cover the cost.

The mileage restatement, the largest ever in the U.S., shocked observers and the auto industry. Other automakers haven't been accused of making the same errors as Hyundai and Kia, but they're worried that the overstatement could tarnish their mileage claims as well.

Environmental groups are concerned, too.

"You think the numbers on the mileage sticker are accurate," said Jesse Prentice-Dunn, the author of a Sierra Club report on fuel economy standards, so the Hyundai-Kia errors were surprising.

The inflated claims raise questions about the country's mileage standards at a time when they have never been more important. Because of higher gas prices, consumers are making fuel economy a priority. And the U.S. government is ramping up mandates for cars, SUVs, pickup trucks and vans that aim to nearly double their average fuel efficiency by 2025.

The overstatement has increased scrutiny of Hyundai and Kia, with some also left wondering about the diligence of the EPA. Some experts say a decision 20 years ago to stop checking one important test contributed to the problem. The EPA declined to discuss the matter.

EPA critics note the vehicles were sold for a year before the agency was prodded into retesting them. It took almost another year before the EPA's November announcement.

Jamie Court, president of Consumer Watchdog, said the group asked the EPA to test the Hyundai Elantra in late 2011 because of consumer complaints about its mileage and eventually had to appeal to the White House to get action.

Hyundai's ads had been taunting competitors about their supposedly better mileage — claiming, for instance, that it had four models getting an EPA-rated 40 miles per gallon on the highway. Hyundai reported record sales in 2011 and 2012.

Auto industry insiders say another automaker probably tipped off the EPA after testing some of the vehicles and finding the problem. Automakers routinely test competitors' vehicles.

In 2011, Ford Motor Co. arranged a test of the company's Focus and the Hyundai Elantra, challenging reporters to get the mileage on the window stickers. The Focus got better mileage in the test, even though its EPA-rated fuel economy was less than the Elantra's.

John Mendel, executive vice president of sales for American Honda Motor Co., in remarks at the Automotive News World Congress last month, said he was concerned that the mileage overstatement would lower the trust consumers have in the industry.

"Competitive pressure should never ever lead us to betray the trust and faith of our customers or society at large," he said.

What went wrong?

Although some details have been disclosed, exactly how Hyundai-Kia produced the inflated mileage claims is still basically a mystery.

Sung Hwan Cho, a Hyundai executive in the U.S., said in a recent conference call that honest procedural errors were made in what is called the "coastdown test." To improve the efficiency of the test, Cho said, the automaker added a few steps and processes that were different from what the EPA recommended.

But Hyundai didn't say what those steps were, and some fuel economy experts are skeptical that inadvertent mistakes caused the overstated mileage. Government requirements are specific about how to do the tests and are meant to prevent additional steps of an automaker's choosing.

Critics want to know more about the mishandling of the test, in part to remove suspicions about Hyundai's motives.

"It's possible it was an honest error, but I don't believe it," said John German, a senior fellow at the International Council for Clean Transportation.

His career includes 13 years at the EPA and 20 years at Chrysler and American Honda. He is called to testify in Congress about fuel efficiency issues.

The coastdown plays a crucial role in what goes into fuel economy testing.

A test driver climbs into a vehicle and on a long, flat stretch of pavement hits the gas till the vehicle tops 70 miles an hour. Then he puts the vehicle in neutral and lets it coast. This is repeated several times in one direction and, to mitigate any effects of wind, several times in the other direction.

Equipment keeps track of the deceleration, providing data needed to help calculate the vehicle's "road load."

The road load is affected by the aerodynamics of the vehicle — how it slips through the air — and its ability to overcome the friction of components such as the transmission. It also includes the rolling resistance between tires and road.

The coastdown numbers are fed into a dynamometer, which simulates the vehicle's road load when other fuel economy tests are run inside a laboratory.

Experts caution that the test can be manipulated. Parts such as outside mirrors can be removed to improve aerodynamics, the car's weight can be lowered and tires can be overinflated. Those changes would reduce the road load and improve the fuel mileage.

Such tweaking is increasingly suspected in countries with weaker standards and enforcement than the U.S.

A study by the University of Graz in Austria found that the road load test was contributing to a growing disparity between the fuel economy results in the laboratory and what automobiles were actually getting in Europe, where consumer groups are starting to lobby for a change.

U.S. and European regulations differ substantially in regard to the coastdown test. In this country, the vehicles in the tests are required, down to the tires and other equipment, to be similar to what will be sold to the public.

But German, the fuel economy expert, said a decision made 20 years ago by the EPA might have finally caught up with it.

He said the EPA used to hire an independent laboratory to do coastdown retesting on up to 10 vehicles a year. That confirmed a sample of automaker results and sent a signal to the companies that there was oversight and a chance they would be caught if they did the tests incorrectly.

The agency, however, never found errors in its coastdown retestings, German said, so it stopped doing them. But once the EPA didn't do any checking, it had to rely on the word of the car companies.

German said "even limited (retesting) would likely have kept the problem from happening" in the Hyundai tests.

The EPA turned down requests to discuss its monitoring of coastdown tests, even though it has been a year since it began to investigate the complaints about Hyundai. It also has rejected requests for documents, including one by The Star.

But there is a hint that the agency is concerned about the coastdown tests. At a conference in September, several months after an investigation into Hyundai began, the agency said it was evaluating the procedures for the test.

Consumer Watchdog is pressuring the EPA to say more about whether Hyundai and Kia made inadvertent mistakes or manipulated the test to give it bragging rights about selling more fuel efficient vehicles. They say disclosure would be important to maintaining trust in the EPA's stickers.

"EPA needs to be more forthcoming," Court said. "There is too much smoke for there not to be fire."

Inside a testing lab

Government-required fuel economy tests began in the 1970s when the OPEC embargo spurred calls to reduce oil imports, in part by making motor vehicles use less fuel.

The tests are done in laboratories simulating highway and city driving under different conditions, including hot and cold weather. The automakers do their own tests, with Hyundai and Kia, for example, performing them in a lab in South Korea. The EPA audits, except for the coastdown test, 10 to 15 percent of the other tests in their laboratory in Ann Arbor, Mich., or contracts the retesting to independent laboratories.

The tests have been improved over the years, including adding one that looks at the effect of air conditioning. But the tests still fall short in some respects, experts say. For instance, the tests don't use ethanol blended gas, which has less energy per gallon than pure gasoline, even though it's the primary fuel sold in the U.S.

And no matter how good the tests, individual habits — from keeping tires inflated to going easy on the gas and brakes — still have a big effect on the actual mileage achieved outside the laboratory.

Nestled in the General Motors Proving Grounds, a 4,000-acre complex outside Detroit, sits an unusual room that helps the automaker figure its fuel mileage claims.

A 6-inch-thick insulated door closes behind the vehicle to be tested. Overhead, 22 heat lamps drop down to raise the temperature, and in front of the vehicle is a fan to simulate the airflow as if it were traveling on a road.

The idea is to re-create a summer day and measure the effect on fuel economy of the vehicle's air conditioner. It's one of five fuel economy tests performed at the lab to calculate a model's fuel economy.

"It's not a couple of people putting on an analyzer at the local gas station," said Dave Garrett, director of emissions compliance and certification at GM.

GM agreed to give The Star a recent tour of its laboratory, which is housed in a building that does both emission and fuel economy testing. The same tests are used to reveal the amount of pollution emitted by a vehicle, as well as its fuel economy.

The testing protocol is precise, including how to fill the fuel tank. A hose sucks the fuel out, and the tank is filled to 40 percent of capacity. GM has a bay of fuel dispensers with the different formulas of gasoline and diesel used around the country. Two suppliers in the country provide the fuel, which has the same octane, sulfur and other components to ensure it's the same as used by other automakers.

Temperature can affect fuel economy, so one test simulates city driving in cold weather. In the laboratory, that is done by putting a vehicle in a "soak" room for 12 to 36 hours at 20 degrees. A paper sign on the vehicle states when the soak began and warns not to start the engine.

The vehicle is then sent to a bay with large metal rollers in the floor that the tires go on. The dynamometer, which has been programmed with the road load, is connected.

A professional driver gets into the vehicle, and a video screen pivots in front of the windshield. In what looks like a trend line being drawn on the screen, the driver gets second-by-second instructions, including speed, acceleration and idling. The driver's record in complying with the instructions is stored and available for an EPA audit.

The test instructions, again, are precise. In the cold-temperature city drive, the top speed is 56 mph and average speed is 21.2 mph. The car idles 18 percent of the time and stops 23 times. The simulated distance is 11 miles, and the time to do the test is 31.2 minutes.

"The tests provide a consistent basis for comparison," Garrett said.

The U.S. Department of Energy says the tests are done in ways that can differ with how some vehicles are actually used. Cargo racks, which reduce fuel economy, aren't used in the tests. The EPA test assumes vehicles operating on flat ground and with 350 pounds of cargo and passengers. If you're towing a trailer, your mileage will be worse.

And numbers matter.

Ford's C-Max Hybrid recently aced the test required by the EPA, getting 47 miles per gallon on the highway test. But Consumer Reports gave it 38 miles per gallon. The suspected issue is that the Ford battery can work up to 62 mph. But the magazine's highway test is a steady 65 mph, which meant the gasoline engine was powering the car. The EPA's highway tests go up to 80 mph, but they average under 62 mph. That meant the battery carried more of the load and improved the mileage in the EPA test.

Keeping consumer trust

It has been three months since Hyundai and Kia admitted to the inflated mileage claims.

John Krafcik, head of Hyundai Motor America, said in a statement: "Given the importance of fuel efficiency for all of us, we are extremely sorry for these errors. When we say to Hyundai owners, 'We've got your back,' that's an assurance we don't take lightly."

Both Hyundai and Kia reported record January sales, suggesting plenty of consumers are willing to move on and forgive the company.

But disclosing exactly what went wrong in the Hyundai case would help keep consumers' trust in the EPA mileage stickers, critics say. And there are lessons to learn, including whether there was a regulatory lapse.

"We should worry about that," said German, the fuel economy expert.

Prentice-Dunn, the author of the Sierra Club report, said it's important that the fuel economy tests remain prized by automakers and consumers, and that means automakers playing by the same rules.

"It's got to be a level playing field," he said.

To reach Steve Everly, call 816-234-4455 or send email to **severly@kcstar.com**.

Message

From: Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6EC0000A0259452FA0F4D1C390A96859-JUCOHEN]
Sent: 2/22/2013 1:27:46 AM
To: Grundler, Christopher [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: Re: KC Star editorial and article

Byron,

Pasted below is what I was Teeing up. Perhaps you can help get it across the finish line?? But now being aware of Chris's direction below. And of course our 4PM mtg today. Might require scaling back the studies.

John millett's advice was not to overthink it. A trap I'm fearful we may be slipping into...Also, to have a shot at publication (and impact) I really should send this down tomorrow!

Last thought: let's remember the audience is the readers, not the editors. While we want to set the record straight, readers won't remember the editorial word for word - just the big takeaways. Thanks!

"The KC Star recently took EPA to task for not being more forthcoming about an investigation into Hyundai and Kia's fuel economy numbers, and about the quality of the agency's testing program itself.

We hoped the Star could understand that EPA is constrained in what can be shared until the investigation is done. Already in response to EPA actions, however, the companies voluntarily re-labeled affected vehicles and EPA posted information on its web site. Consumers can contact us complianceinfo@epa.gov with questions.

As a whole, consumers can feel confident about EPA's rigorous, repeatable testing program, which include extensive "real world" driving inputs. We're happy to discuss that, though we recognize that good news stories can be a tougher sell than sensational headlines.

A study by the Society of Automotive Engineers of more than 30,000 drivers found people achieving at or slightly better than the label values. While thousands of fuel economy labels have been issued in recent years, the number of models EPA received complaints on dwindled to less than 1 percent (???).

We'll continue to stay atop industry trends auto industry trends and make changes as needed. Of course, no single fuel economy value can ever be "right" all the time. Driving styles , conditions and maintenance practices vary person-to-person. So will fuel economy. But when it comes to providing the very best estimates possible, EPA takes a back seat to no one."

From: Grundler, Christopher
Sent: Thursday, February 21, 2013 6:48:46 PM
To: Cohen, Justin; Bunker, Byron
Subject: Re: KC Star editorial and article

Ltr to editor should take on the misstatements in editorial, not the story

---

From: Cohen, Justin
Sent: Thursday, February 21, 2013 6:32:13 PM
To: Grundler, Christopher
Subject: KC Star editorial and article

Per your request. But don't let reading it ruin your nice dinner!

EPA botches oversight of car mileage claims

The Kansas City Star
The following editorial appeared in the Kansas City Star on Tuesday, Feb. 19:
Indeed, the mileage claims made by automakers play a key role in a multibillion-dollar industry that deserves close government scrutiny. But what happens when the regulators fall down on the job?
The federal Environmental Protection Agency has failed consumers with its abysmal handling of a controversy involving the fuel efficiency of some recent Hyundai and Kia vehicles.
As detailed in The Kansas City Star on Sunday, the EPA won't tell the public specifics about the problems involving auto mileage estimates from the two automakers.
The EPA also won't comment when asked about how well the annual fuel economy standard tests are overseen by the government these days.
Finally, it's extremely disappointing that environmental groups had to pressure the EPA for many months to even do its job and check into complaints about lower-than-expected mileage for certain vehicles.
The entire episode amounts to a shocking dereliction of duty by the EPA. It also, unfortunately, gives critics in Congress ammunition to attack the agency, which has important roles to play when it comes to cleaning up the nation's air and water.
For decades, the America public has come to believe that the EPA essentially endorses whatever mileage statements are made by General Motors, Ford, Chrysler, Toyota, Honda and other carmakers.
But the controversy involving Hyundai and Kia tarnishes those two companies and the EPA. Plus, other major auto manufacturers such as GM are left to wonder whether the public will now distrust their estimates, too.
So were the recent errors honest mistakes? No one knows because the carmakers have not disclosed exactly what might have gone wrong.
Another problem: The EPA reportedly does not hire an outside expert to randomly check vehicles on the accuracy of their stated mileage claims using the same test that apparently brought to light the latest problems. Why did the agency stop such monitoring? Will it restart the program?
Cue up the once-again mum EPA officials who, as The Star noted, also refused to provide documents about the entire matter.
So much for being a public watchdog. In this case, the EPA seems more like an apologist for bad behavior by parts of the auto industry.

Posted on Sat, Feb. 16, 2013

Can consumers trust the EPA mileage stickers on cars?

By STEVE EVERLY
The Kansas City Star

When consumers buy a car, they take the EPA's mileage sticker — such as 33 miles per gallon highway, 27 city — as a fair comparison with other vehicles.

But does the sticker always deserve that trust?

The United States is thought to have the toughest fuel economy standards and enforcement in the world. But that reputation suffered a black eye in November when the Environmental Protection Agency announced that Hyundai and Kia had overstated the fuel mileage for 900,000 vehicles sold in the U.S. by as much as 6 miles a gallon.

Hyundai Motor Group, which makes both brands, made the inflated mileage claims on 13 models of cars and SUVs for about two years, often boasting of the high mileage in ads. It since has apologized and decided on its own to compensate owners of the vehicles, setting aside more than $400 million to cover the cost.

The mileage restatement, the largest ever in the U.S., shocked observers and the auto industry. Other automakers haven't been accused of making the same errors as Hyundai and Kia, but they're worried that the overstatement could tarnish their mileage claims as well.

Environmental groups are concerned, too.

"You think the numbers on the mileage sticker are accurate," said Jesse Prentice-Dunn, the author of a Sierra Club report on fuel economy standards, so the Hyundai-Kia errors were surprising.

The inflated claims raise questions about the country's mileage standards at a time when they have never been more important. Because of higher gas prices, consumers are making fuel economy a priority. And the U.S. government is ramping up mandates for cars, SUVs, pickup trucks and vans that aim to nearly double their average fuel efficiency by 2025.

The overstatement has increased scrutiny of Hyundai and Kia, with some also left wondering about the diligence of the EPA. Some experts say a decision 20 years ago to stop checking one important test contributed to the problem. The EPA declined to discuss the matter.

EPA critics note the vehicles were sold for a year before the agency was prodded into retesting them. It took almost another year before the EPA's November announcement.

Jamie Court, president of Consumer Watchdog, said the group asked the EPA to test the Hyundai Elantra in late 2011 because of consumer complaints about its mileage and eventually had to appeal to the White House to get action.

Hyundai's ads had been taunting competitors about their supposedly better mileage — claiming, for instance, that it had four models getting an EPA-rated 40 miles per gallon on the highway. Hyundai reported record sales in 2011 and 2012.

Auto industry insiders say another automaker probably tipped off the EPA after testing some of the vehicles and finding the problem. Automakers routinely test competitors' vehicles.

In 2011, Ford Motor Co. arranged a test of the company's Focus and the Hyundai Elantra, challenging reporters to get the mileage on the window stickers. The Focus got better mileage in the test, even though its EPA-rated fuel economy was less than the Elantra's.

John Mendel, executive vice president of sales for American Honda Motor Co., in remarks at the Automotive News World Congress last month, said he was concerned that the mileage overstatement would lower the trust consumers have in the industry.

"Competitive pressure should never ever lead us to betray the trust and faith of our customers or society at large," he said.

What went wrong?

Although some details have been disclosed, exactly how Hyundai-Kia produced the inflated mileage claims is still basically a mystery.

Sung Hwan Cho, a Hyundai executive in the U.S., said in a recent conference call that honest procedural errors were made in what is called the "coastdown test." To improve the efficiency of the test, Cho said, the automaker added a few steps and processes that were different from what the EPA recommended.

But Hyundai didn't say what those steps were, and some fuel economy experts are skeptical that inadvertent mistakes caused the overstated mileage. Government requirements are specific about how to do the tests and are meant to prevent additional steps of an automaker's choosing.

Critics want to know more about the mishandling of the test, in part to remove suspicions about Hyundai's motives.

"It's possible it was an honest error, but I don't believe it," said John German, a senior fellow at the International Council for Clean Transportation.

His career includes 13 years at the EPA and 20 years at Chrysler and American Honda. He is called to testify in Congress about fuel efficiency issues.

The coastdown plays a crucial role in what goes into fuel economy testing.

A test driver climbs into a vehicle and on a long, flat stretch of pavement hits the gas till the vehicle tops 70 miles an hour. Then he puts the vehicle in neutral and lets it coast. This is repeated several times in one direction and, to mitigate any effects of wind, several times in the other direction.

Equipment keeps track of the deceleration, providing data needed to help calculate the vehicle's "road load."

The road load is affected by the aerodynamics of the vehicle — how it slips through the air — and its ability to overcome the friction of components such as the transmission. It also includes the rolling resistance between tires and road.

The coastdown numbers are fed into a dynamometer, which simulates the vehicle's road load when other fuel economy tests are run inside a laboratory.

Experts caution that the test can be manipulated. Parts such as outside mirrors can be removed to improve aerodynamics, the car's weight can be lowered and tires can be overinflated. Those changes would reduce the road load and improve the fuel mileage.

Such tweaking is increasingly suspected in countries with weaker standards and enforcement than the U.S.

A study by the University of Graz in Austria found that the road load test was contributing to a growing disparity between the fuel economy results in the laboratory and what automobiles were actually getting in Europe, where consumer groups are starting to lobby for a change.

U.S. and European regulations differ substantially in regard to the coastdown test. In this country, the vehicles in the tests are required, down to the tires and other equipment, to be similar to what will be sold to the public.

But German, the fuel economy expert, said a decision made 20 years ago by the EPA might have finally caught up with it.

He said the EPA used to hire an independent laboratory to do coastdown retesting on up to 10 vehicles a year. That confirmed a sample of automaker results and sent a signal to the companies that there was oversight and a chance they would be caught if they did the tests incorrectly.

The agency, however, never found errors in its coastdown retestings, German said, so it stopped doing them. But once the EPA didn't do any checking, it had to rely on the word of the car companies.

German said "even limited (retesting) would likely have kept the problem from happening" in the Hyundai tests.

The EPA turned down requests to discuss its monitoring of coastdown tests, even though it has been a year since it began to investigate the complaints about Hyundai. It also has rejected requests for documents, including one by The Star.

But there is a hint that the agency is concerned about the coastdown tests. At a conference in September, several months after an investigation into Hyundai began, the agency said it was evaluating the procedures for the test.

Consumer Watchdog is pressuring the EPA to say more about whether Hyundai and Kia made inadvertent mistakes or manipulated the test to give it bragging rights about selling more fuel efficient vehicles. They say disclosure would be important to maintaining trust in the EPA's stickers.

"EPA needs to be more forthcoming," Court said. "There is too much smoke for there not to be fire."

Inside a testing lab

Government-required fuel economy tests began in the 1970s when the OPEC embargo spurred calls to reduce oil imports, in part by making motor vehicles use less fuel.

The tests are done in laboratories simulating highway and city driving under different conditions, including hot and cold weather. The automakers do their own tests, with Hyundai and Kia, for example, performing them in a lab in South Korea. The EPA audits, except for the coastdown test, 10 to 15 percent of the other tests in their laboratory in Ann Arbor, Mich., or contracts the retesting to independent laboratories.

The tests have been improved over the years, including adding one that looks at the effect of air conditioning. But the tests still fall short in some respects, experts say. For instance, the tests don't use ethanol blended gas, which has less energy per gallon than pure gasoline, even though it's the primary fuel sold in the U.S.

And no matter how good the tests, individual habits — from keeping tires inflated to going easy on the gas and brakes — still have a big effect on the actual mileage achieved outside the laboratory.

Nestled in the General Motors Proving Grounds, a 4,000-acre complex outside Detroit, sits an unusual room that helps the automaker figure its fuel mileage claims.

A 6-inch-thick insulated door closes behind the vehicle to be tested. Overhead, 22 heat lamps drop down to raise the temperature, and in front of the vehicle is a fan to simulate the airflow as if it were traveling on a road.

The idea is to re-create a summer day and measure the effect on fuel economy of the vehicle's air conditioner. It's one of five fuel economy tests performed at the lab to calculate a model's fuel economy.

"It's not a couple of people putting on an analyzer at the local gas station," said Dave Garrett, director of emissions compliance and certification at GM.

GM agreed to give The Star a recent tour of its laboratory, which is housed in a building that does both emission and fuel economy testing. The same tests are used to reveal the amount of pollution emitted by a vehicle, as well as its fuel economy.

The testing protocol is precise, including how to fill the fuel tank. A hose sucks the fuel out, and the tank is filled to 40 percent of capacity. GM has a bay of fuel dispensers with the different formulas of gasoline and diesel used around the country. Two suppliers in the country provide the fuel, which has the same octane, sulfur and other components to ensure it's the same as used by other automakers.

Temperature can affect fuel economy, so one test simulates city driving in cold weather. In the laboratory, that is done by putting a vehicle in a "soak" room for 12 to 36 hours at 20 degrees. A paper sign on the vehicle states when the soak began and warns not to start the engine.

The vehicle is then sent to a bay with large metal rollers in the floor that the tires go on. The dynamometer, which has been programmed with the road load, is connected.

A professional driver gets into the vehicle, and a video screen pivots in front of the windshield. In what looks like a trend line being drawn on the screen, the driver gets second-by-second instructions, including speed, acceleration and idling. The driver's record in complying with the instructions is stored and available for an EPA audit.

The test instructions, again, are precise. In the cold-temperature city drive, the top speed is 56 mph and average speed is 21.2 mph. The car idles 18 percent of the time and stops 23 times. The simulated distance is 11 miles, and the time to do the test is 31.2 minutes.

"The tests provide a consistent basis for comparison," Garrett said.

The U.S. Department of Energy says the tests are done in ways that can differ with how some vehicles are actually used. Cargo racks, which reduce fuel economy, aren't used in the tests. The EPA test assumes vehicles operating on flat ground and with 350 pounds of cargo and passengers. If you're towing a trailer, your mileage will be worse.

And numbers matter.

Ford's C-Max Hybrid recently aced the test required by the EPA, getting 47 miles per gallon on the highway test. But Consumer Reports gave it 38 miles per gallon. The suspected issue is that the Ford battery can work up to 62 mph. But the magazine's highway test is a steady 65 mph, which meant the gasoline engine was powering the car. The EPA's highway tests go up to 80 mph, but they average under 62 mph. That meant the battery carried more of the load and improved the mileage in the EPA test.

Keeping consumer trust

It has been three months since Hyundai and Kia admitted to the inflated mileage claims.

John Krafcik, head of Hyundai Motor America, said in a statement: "Given the importance of fuel efficiency for all of us, we are extremely sorry for these errors. When we say to Hyundai owners, 'We've got your back,' that's an assurance we don't take lightly."

Both Hyundai and Kia reported record January sales, suggesting plenty of consumers are willing to move on and forgive the company.

But disclosing exactly what went wrong in the Hyundai case would help keep consumers' trust in the EPA mileage stickers, critics say. And there are lessons to learn, including whether there was a regulatory lapse.

"We should worry about that," said German, the fuel economy expert.

Prentice-Dunn, the author of the Sierra Club report, said it's important that the fuel economy tests remain prized by automakers and consumers, and that means automakers playing by the same rules.

"It's got to be a level playing field," he said.

To reach Steve Everly, call 816-234-4455 or send email to **severly@kcstar.com**.

Message

From: Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CBF363AB0A3944E4AE80DEF70B9826BA-ALSON, JEFF]
Sent: 7/30/2013 7:56:03 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Grundler, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]; Le, Madison [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9297d8b52bcb41319ba40d11142ab307-Le, Madison]; Mylan, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70798537ae234bdeb55b66364fb8f220-Mylan, Christopher]; Moran, Robin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdc537a0f9d5433dae083bca681af983-Moran, Robin]; Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Nevers, Chris [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a07a9723e93c43d9843e466f7fac0638-Nevers, Chris]
CC: Jones, Jacqueline [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16199688d4b34778ace3767cf6acb2af-Jones, Jacqueline]; Iffland, JoNell [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=269c8731e7c6417482f8a8ddccfc4887-Iffland, JoNell]; Stewart, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Stewart, Gwen [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3f8c5838943241caadb6005ffaddd7db-gstewart]
Subject: RE: FE Label Progress
Attachments: Label Messages-Questions draft last revised by Jeff on 7-30.docx; Draft CMax PR.docx

Importance: High

Here are two pieces for the 4:00, items 4 and 5. I will bring a few copies for AA staff.

This first one has draft messages (pages 1-2) and very-draft and incomplete Q/A (several pages, so far).

Label Messages-Quest...

This second file is a draft 1-p press release. No one else has seen, so it is very draft, but one way to get us thinking more concretely.

Draft CMax PR.docx

From: Bunker, Byron
Sent: Tuesday, July 30, 2013 3:31 PM
To: Grundler, Christopher; Le, Madison; Mylan, Christopher; Moran, Robin; Snapp, Lisa; Alson, Jeff; Charmley, William; Nevers, Chris
Cc: Jones, Jacqueline; Iffland, JoNell; Stewart, Lori; Stewart, Gwen
Subject: RE: FE Label Progress

Jeff will be sending materials separately likely a few minutes before 4:00.

Agenda

1) Chris/Bill readout from Robert Brown meeting
2) Update on call with Bob Holycross (Byron)
3) Plan for NHTSA briefing on Thursday (Byron)
4) Key messages (Lisa/Jeff)
5) Early draft PR (Lisa/Jeff)
6) Even earlier draft Q&As (team)
7) Consumer Reports follow-up (Byron)
8) Key action items for tomorrow (team)

Thanks,

Byron

****
Byron Bunker
Director Compliance Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
Bunker.Byron@epa.gov
Phone: (734) 214-4155
Mobile: (734) 353-9623
****

-----Original Appointment-----
From: Grundler, Christopher
Sent: Friday, July 26, 2013 8:25 AM
To: Grundler, Christopher; Bunker, Byron; Le, Madison; Mylan, Christopher; Moran, Robin; Snapp, Lisa; Alson, Jeff; Charmley, William; Nevers, Chris
Cc: Jones, Jacqueline; Iffland, JoNell; Stewart, Lori; Stewart, Gwen
Subject: FE Label Progress
When: Tuesday, July 30, 2013 4:00 PM-4:30 PM (GMT-05:00) Eastern Time (US & Canada).
Where: RM. 6520 DC/RM. C-174 DOD AA - By Telephone: 866 299-3188, Access Code: 202 564-1103

MEETING REQUESTED BY: Byron Bunker

Message

From: Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CBF363AB0A3944E4AE80DEF70B9826BA-ALSON, JEFF]
Sent: 9/30/2013 8:58:20 PM
To: Grundler, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d3be58c2cc8545d88cf74f3896d4460f-Grundler, Christopher]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bolon, Kevin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7c0684aaef44174801c0406b51034d2-Bolon, Kevin]; Stewart, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Mylan, Christopher [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70798537ae234bdeb55b66364fb8f220-Mylan, Christopher]; Hula, Aaron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]
Subject: Draft Trends package and slides for (hopefully) Friday briefing
Attachments: Slides-Trends-Chris draft 9-30.ppt; Executive Summary 9-30.docx; Trends Draft 9-30_clean.docx

Chris, we are on your schedule for Friday at 11 am, but obviously there is great uncertainty about how the week will play out. Karl asked that I send out a package today. With the plan to release the report at the Showcase in early December, we need to brief you as soon as possible since we also expect to brief Janet and go through an interagency review. We also hope other OTAQ staff will want to review at least some sections of this "reinvented" report, so I am cc'ing a few staff as well.

The first attachment has the slides we will use. They are good for a quick overview of the content of the reinvented report, the key communications messages (MY 2012 fuel economy up 1.2 mpg, mpg and CO2 are all-time records, and improvements in 7 of the last 8 years), and comparisons of Trends with our rule projections and other fuel economy projections.

The second attachment is the draft Executive Summary. While its key figures are also in the slides, the summary also shows how we are making the report more attractive.

The third attachment is the draft Body (over 100 pages). The body is 90% done, with a couple of sections (notably 4 on manufacturers and 6 on manufacturer-specific technology penetration) still under construction. If you wanted to take a quick look at what "reinvention" means, two good examples are Sections 2 (overview) and 5 (individual technologies) which I think are much better written, more attractive, and more powerful than what we had before.

Message

From: Ghanta, Venu [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7CF46C0305194992A35FD4FA7B1B78FC-VGHANTA]
Sent: 3/14/2013 4:33:55 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]
Subject: FW: a cut at the H-k paper
Attachments: FE and H-K TPs 03-14-2013-LS+VG.docx

Byron-Can you take a look and see if you're okay with the changes? Also, has anyone in OGC reviewed this? If not, I can handle that. Thanks.

From: Stewart, Lori
Sent: Thursday, March 14, 2013 12:09 PM
To: Ghanta, Venu
Subject: a cut at the H-k paper

Message

From: Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404F4FF6C924B2F8F3FB80C3A4467A7-LSTEWA04]
Sent: 3/14/2013 3:08:16 PM
To: Ghanta, Venu [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7cf46c0305194992a35fd4fa7b1b78fc-vghanta]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: FW: Hearing materials for your review: due by noon today
Attachments: FE and H-K TPs 03-13-2013 DRAFT 4.docx

Byron, my understanding is that you reviewed this. However, I think the way this is written suggests that we required H-K to take these actions. Seems like we need to make it clear that these were voluntary actions. I can make the changes but wanted to run that by you.

From: Ghanta, Venu
Sent: Thursday, March 14, 2013 10:49 AM
To: Ghanta, Venu; Stewart, Lori
Subject: RE: Hearing materials for your review: due by noon today

Inadvertently left this off the first list. Sorry!

From: Ghanta, Venu
Sent: Thursday, March 14, 2013 9:06 AM
To: Stewart, Lori
Subject: Hearing materials for your review: due by noon today

1) Gasoline Prices
2) E15
3) ECA
4) DERA
5) FE Label (draft)
6) Hyundai/Kia (draft)
7) GHG Vehicle Rules (you should have these)
8) RFS Waiver

Message

From: Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16E26D18AE97412C99DB2F8ED5419449-SNAPP, LISA]
Sent: 3/14/2013 2:59:26 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: your input on Gina TPs for H-K and Fuel economy
Attachments: FE and H-K TPs 03-13-2013 DRAFT 4.docx; FE TPs 03_11-2013 DRAFT v4.docx

Byron—

Front office is wondering if these are final. Jim has given the go-ahead for TCD. Did you want to take another look? Essentially the same as yesterday's, but tightened up a bit, and split H-K topic off to its own topic. I took all of your comments except stuck with the more general 20% on CAFE offset, and did not go into the 5-cyce vs 2-cycle discussion for this audience (kept it at 101 level).

They are hoping for final at the DD level by noon. TCD is good with these. Did you want to take a look?

Sorry for everything being a fire drill

Thanks--Lisa

From: Snapp, Lisa
Sent: Wednesday, March 13, 2013 3:49 PM
To: Bunker, Byron; Alson, Jeff; Wehrly, Linc; French, Roberts
Subject: revised FE TPs

As Venu suggested, I split them into two topics and tightened up wording, as I was told it was too wordy for Gina and the audience. Thoughts on these versions? Right messages and level of detail, or is something missing/inaccurate?

Thanks again--Lisa

Message

From: Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16E26D18AE97412C99DB2F8ED5419449-SNAPP, LISA]
Sent: 3/11/2013 8:44:17 PM
To: Ghanta, Venu [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7cf46c0305194992a35fd4fa7b1b78fc-vghanta]
CC: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Blubaugh, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1c15073cc92c4613a4d703690e0e327e-Blubaugh, Jim]
Subject: RE: draft fuel economy TPs
Attachments: FE TPs 03_11-2013 DRAFT v2.docx

Latest version, following the new format. Venu, I have also put this on the share drive. It needs additional review by TCD and CD but this is a first cut.

--Lisa

From: Blubaugh, Jim
Sent: Monday, March 11, 2013 1:12 PM
To: Snapp, Lisa
Cc: Simon, Karl; Bunker, Byron; Alson, Jeff; Wehrly, Linc
Subject: FW: draft fuel economy TPs

Looks good. May want to move the new label info upfront since it's the most recent action on our part.
After CD weighs-in today, send it up to Venu and cc: Karl and myself.

From: Snapp, Lisa
Sent: Monday, March 11, 2013 12:52 PM
To: Simon, Karl; Blubaugh, Jim
Cc: Wehrly, Linc; Alson, Jeff; Bunker, Byron
Subject: draft fuel economy TPs

Karl and Jim,

Here is a first draft of talking points on FE label, tesing, and H-K, per Venu's request. I used a variety of documents that we collectively have put together as source material, and went more for a message than for details. I assume we'll get more direction on what they are seeking and can add detail and additional topics (e.g., advanced tech vehicles, Consumer Reports, more specifics on our testing and label values . . .) as needed.

I am including Linc on this email in case CD wants to take a first cut at revisions. Both Jeff and Byron are out of pocket today but presumably can weigh in later in the week. My understanding is that a first draft is requested in the front office by COB today, but that there will be opportunities for revisions in the coming days.

Please send comments my way and I can incorporate and send up later today, to get the ball rolling.

Thanks--Lisa

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 3/11/2013 5:39:18 PM
To: Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Blubaugh, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1c15073cc92c4613a4d703690e0e327e-Blubaugh, Jim]
CC: Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: RE: draft fuel economy TPs
Attachments: FE TPs 03_11-2013 DRAFT v1(LW).docx

Lisa,

Thanks for doing this. It looks really good. I agree with Jim's comment that maybe we should move the history/background section to the front and move the Hyundai/Kia section to the back. I also have one potential edit. In the Hyundai/Kia section, I'm uncomfortable mentioning that two other manufacturers had to change their label. One of those companies has denied that they had to and the other company had to changes the label because they had a conditional label that changes after we performed our confirmatory testing.

Thanks,
Linc

From: Snapp, Lisa
Sent: Monday, March 11, 2013 12:52 PM
To: Simon, Karl; Blubaugh, Jim
Cc: Wehrly, Linc; Alson, Jeff; Bunker, Byron
Subject: draft fuel economy TPs

Karl and Jim,

Here is a first draft of talking points on FE label, tesing, and H-K, per Venu's request. I used a variety of documents that we collectively have put together as source material, and went more for a message than for details. I assume we'll get more direction on what they are seeking and can add detail and additional topics (e.g., advanced tech vehicles, Consumer Reports, more specifics on our testing and label values . . .) as needed.

I am including Linc on this email in case CD wants to take a first cut at revisions. Both Jeff and Byron are out of pocket today but presumably can weigh in later in the week. My understanding is that a first draft is requested in the front office by COB today, but that there will be opportunities for revisions in the coming days.

Please send comments my way and I can incorporate and send up later today, to get the ball rolling.

Thanks--Lisa

Message

From: Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16E26D18AE97412C99DB2F8ED5419449-SNAPP, LISA]
Sent: 3/11/2013 4:52:10 PM
To: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Blubaugh, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1c15073cc92c4613a4d703690e0e327e-Blubaugh, Jim]
CC: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: draft fuel economy TPs
Attachments: FE TPs 03_11-2013 DRAFT v1.docx

Karl and Jim,

Here is a first draft of talking points on FE label, tesing, and H-K, per Venu's request. I used a variety of documents that we collectively have put together as source material, and went more for a message than for details. I assume we'll get more direction on what they are seeking and can add detail and additional topics (e.g., advanced tech vehicles, Consumer Reports, more specifics on our testing and label values . . .) as needed.

I am including Linc on this email in case CD wants to take a first cut at revisions. Both Jeff and Byron are out of pocket today but presumably can weigh in later in the week. My understanding is that a first draft is requested in the front office by COB today, but that there will be opportunities for revisions in the coming days.

Please send comments my way and I can incorporate and send up later today, to get the ball rolling.

Thanks--Lisa

Data from Edmunds.com

Acronyms

TC	Turbocharged
NA	Naturally-Aspirated
SS	Engine Start-Stop

Maker		Ford	Ford	Hyundai
Model		2013 Fusion	2013 Fusion	2013 Sonata
Engine	Type	1.6L, 4-cyl, TC w/SS	2.5L, 4-cyl, NA	2.4L, 4-cyl, NA
	Power [hp]	178	175	198
	Torque [lb-ft]	184	175	187
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	23	22	24
	Edmunds			
Highway [mpg]	EPA	36	34	35
	Edmunds			
Combined [mpg]	EPA	28	26	28
	Edmunds			approx. 28
Performance	Time to 60 mph	8.8		7.9
	Quarter Mile			

Maker		Ford	Kia	Honda
Model		2013 Fusion	2013 Optima SX	2013 Accord
Engine	Type	2L, 4-cyl, TC	2L, 4-cyl, TC	3.5L 6-cyl, NA
	Power [hp]	237 @ 5500 rpm	274	278
	Torque [lb-ft]	270 @ 3000 rpm	269	252 @ 4900 rpm
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		AWD	FWD	FWD
City [mpg]	EPA	22	22	20
	Edmunds			
Highway [mpg]	EPA	31	34	34
	Edmunds	22.1		28.7
Combined [mpg]	EPA	25	26	25
	Edmunds		less than 26	
Performance	Time to 60 mph	6.9 sec	6.5	6.1
	Quarter Mile	15.1 sec at 90.6 mph		14.3 sec at 98.1 mph

Maker		Chevrolet	Chevrolet	Dodge
Model		2013 Cruze	2013 Cruze	2013 Dart
Engine	Type	1.8L, 4-cyl, NA	1.4L, 4-cyl, TC	2L, 4-cyl, NA
	Power [hp]	136	138	160
	Torque [lb-ft]	125	148	148
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic

Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	26	24
	Edmunds			
Highway [mpg]	EPA	35	39	34
	Edmunds			
Combined [mpg]	EPA	27	31	27
	Edmunds			
Performance	Time to 60 mph		9.2	
	Quarter Mile		17.1 sec at 80.4 mph	

Maker		Ford	Honda	Mazda
Model		2013 Escape	2013 CR-V	2013 CX-5
Engine	Type	1.6L, 4-cyl, TC	2.4L, 4-cyl, NA	2L, 4-cyl, NA
	Power [hp]	178 @ 5700 rpm	185	155
	Torque [lb-ft]	184 @ 2500 rpm	163	150
Transmission		6-speed Automatic	5-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	23	23	26
	Edmunds			
Highway [mpg]	EPA	33	31	32
	Edmunds		27.7	25.3
Combined [mpg]	EPA	28	26	29
	Edmunds			
Performance	Time to 60 mph		9.4	9.3
	Quarter Mile			

Maker		Ford	Kia	Toyota
Model		2013 Escape	2013 Sportage SX	2012 RAV4
Engine	Type	2L, 4-cyl, TC	2L, 4-cyl, TC	3.5L, 6-cyl, NA
	Power [hp]	240 @ 5500 rpm	260	269
	Torque [lb-ft]	270 @ 3000 rpm	269	246
Transmission		6-speed Automatic	6-speed Automatic	5-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	21	19
	Edmunds			
Highway [mpg]	EPA	30	28	27
	Edmunds			
Combined [mpg]	EPA	25	24	22
	Edmunds	20.5	less than 24	
Performance	Time to 60 mph	7.4	6.5	7.2
	Quarter Mile			

Maker	BMW	BMW
Model	2013 X3	2013 X3

Engine	Type	2L, 4-cyl, TC	3L, 6-cyl, TC
	Power [hp]	240	300
	Torque [lb-ft]	260	300
Transmission		8-speed Automatic	8-speed Automatic
Drivetrain		AWD	AWD
City [mpg]	EPA	21	19
	Edmunds		
Highway [mpg]	EPA	28	26
	Edmunds		
Combined [mpg]	EPA	24	21
	Edmunds		
Performance	Time to 60 mph	6.8	5.6
	Quarter Mile		

Maker		Ford	Ford	Ford
Model		2013 F150	2013 F150	2013 F150
Engine	Type	3.7L, 6-cyl, NA	5.0L, 8-cyl, NA	3.5L, 6-cyl, TC
	Power [hp]	302	360	365
	Torque [lb-ft]	278	380	420
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		RWD	RWD	RWD
City [mpg]	EPA	17	15	16
	Edmunds			
Highway [mpg]	EPA	23	21	22
	Edmunds			
Combined [mpg]	EPA	19	17	18
	Edmunds			
Performance	Time to 60 mph	8.2	7.2	6.5
	Quarter Mile			

Maker		Volkswagen	Volkswagen	Volkswagen
Model		2013 Beetle	2013 Beetle	2012 S60 T5
Engine	Type	2L, 4-cyl, TC	2.5L, 4-cyl, NA	2.5L, 5-cyl, TC
	Power [hp]	200	170	250
	Torque [lb-ft]	207	177	266
Transmission		6-speed Automatic	6-speed Automatic	6-speed Automatic
Drivetrain		FWD	FWD	FWD
City [mpg]	EPA	22	22	20
	Edmunds			
Highway [mpg]	EPA	30	29	30
	Edmunds			28
Combined [mpg]	EPA	25	25	23
	Edmunds			22.3
Performance	Time to 60 mph	6.6	9	7.2
	Quarter Mile			

Toyota	Honda	Nissan
2013 Camry	2013 Accord	2013 Altima
2.5L, 4-cyl, NA	2.4L, 4-cyl, NA	2.5L, 4-cyl, NA
178	185	182
170	181	180
6-speed Automatic	CVT	CVT
FWD	FWD	FWD
25	27	27
22.5		
35	36	38
28	30	31
	26.3	
8.1	7.8	7.8
	15.8 sec @ 91.2 mph	

Toyota	Nissan
2013 Camry	2013 Altima
3.5L, 6-cyl, NA	3.5L, 6-cyl, NA
268	270 @ 6000 rpm
248	258 @ 4400 rpm
6-speed Automatic	CVT
FWD	FWD
21	22
31	31
25	25
	21.6
6.6	6.2
	14.3 sec at 99.8 mph

This is only a meaningful comparison of Edmunds test data between 4-cyl TC engine and 6-cyl NA engine.
According to Edmunds, Ford Fusion with 2L 4-cyl TC enigne has less performance and fuel economy when compared to Honda Accord with 3.5L 6-cyl

Dodge
2014 Dart
1.4L, 4-cyl, TC
160
184
6-speed Automatic

FWD
27
37
31
22
8.3
16.1 sec at 85.4 mph

Kia	Toyota
2013 Sportage	2013 RAV4
2.4L, 4-cyl, NA	2.5L, 4-cyl, NA
176	176
168	172
6-speed Automatic	6-speed Automatic
FWD	FWD
21	24
30	31
	23.6
25	26
9.4	8.9

Mercedes-Benz
2012 C250
1.8L, 4-cyl, TC
201
299
7-speed Automatic
FWD
21
31
25
25
7.3

Edmunds test data closely matches with EPA estimates.

Cell: F16
Comment: "In our extended test, we averaged 22.5 mpg in mostly city driving, with the best tank returning 27 mpg."

Cell: E20
Comment: "In a long-term test with this engine, we managed to match the Sonata's EPA combined number."

Cell: G20
Comment: "We still recorded 26.3 mpg during 537 miles of combined driving, which handily trumps the 24.1 mpg we recorded over 841 miles in our last test of a 2012 four-cylinder Accord."

Cell: C35
Comment: "We recorded 22.1 mpg over 432 miles spent largely on the highway."

Cell: E35
Comment: "Our test car averaged 28.7 mpg over 191 miles of mostly highway driving."

Cell: D37
Comment: "We struggled to meet those numbers in the course of a year-long test of the Optima SX."

Cell: G37
Comment: "We averaged 21.6 mpg during varied driving, much of which involved winding the engine out to test the limits of the CVT."

Cell: C38
Comment: "These milestones are slower than most other turbocharged four-cylinder or V6-powered family cars. Kia's Optima SX, for example, hit 60 in 6.5 seconds (6.1 with rollout) and completed the quarter in 14.6 seconds at 98.4 mph. Honda's stonk-fast Accord V6 hits 60 in 6.1 seconds (5.7 with rollout) and purrs through the quarter in 14.3 seconds at 98.1 mph."

Cell: F54
Comment: "The 22 mpg we measured during this short test was the result of a single fill and is not statistically significant."

Cell: G69
Comment: "We drove this RAV 835 miles, most at or near freeway speeds. During this period it recorded 23.6 mpg."

Cell: C88
Comment: "Ford's mutant-power 2.0-liter EcoBoost Escape, at 20.5 mpg, didn't do as well."

Cell: D88
Comment: "We've found the Sportage SX struggles to match these numbers in real-world driving."

Cell: E137
Comment: "A kicked-back cruise up the Pacific Coast Highway yielded 28 mpg."

Cell: E139
Comment: "We averaged 22.3 mpg against the EPA's combined estimate of 23 mpg."

Cell: F139
Comment: "We observed 25 mpg in just over 500 miles of combined city and highway driving."

Message

From: Wick, Anne [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A0DCFF72A9834E52B0B701664635CA83-AWICK]
Sent: 1/24/2013 9:58:50 PM
To: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
CC: Barbeau, Jason (ENRD) [Jason.Barbeau@usdoj.gov]; Werner, Jacqueline [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5cf3574b4b7c40039be34fb752ddc667-Jrwerner]; RPolin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=99a1c84dbf1d49fdb206d020555ca6f5-rpolin]
Subject: Latest Hyundai 208 draft
Attachments: hyundai 208 2013.docx

Byron, I wanted you to have the latest Hyundai 208 draft for your review tonight. We'll try to get this out tomorrow.

hyundai 208 2013.docx

Anne Wick, Mechanical Engineer
Vehicle and Engine Team Leader
202-564-2063
Enforcement Confidential: Attorney Work Product

Help eliminate environmental violations - report tips and complaints at:
http://www.epa.gov/compliance/complaints/index.html

Message

From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]
Sent: 1/24/2013 7:41:47 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: OECA 208 Letter (Hyundai)
Attachments: Hyundai Kia OECA 208 rev 011513_CDedit.docx

Byron,

Here is the letter with our comments (Julian, Linc, and Joel).

Hyundai Kia OECA 208 rev 011513_...

Linc Wehrly
Director, Light-Duty Vehicle Center
Compliance Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

Message

From: Alson, Jeff [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CBF363AB0A3944E4AE80DEF70B9826BA-ALSON, JEFF]
Sent: 1/25/2013 9:09:39 PM
To: McConville, Drew [Andrew_J_McConville@ceq.eop.gov]; james.tamm@dot.gov; White, Thomas [Thomas.White@hq.doe.gov]
CC: Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Charmley, William [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6ec0000a0259452fa0f4d1c390a96859-jucohen]; Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Snapp, Lisa [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Hula, Aaron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Dadd7c3e1a774be392dffb75350b56bb-Hula, Aaron]; Bunker, Amy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bc45bf54f7fb4adfa01ab0455180574c-Bunker, Amy]; hannon, john [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=25c873d522e94729b8d70106c88cbadf-JHANNON]
Subject: Draft 2012 CO2 and Fuel Economy Trends Report for review
Attachments: 2012 Executive Summary MASTER 1-25.docx; 2012 Trends Body MASTER 1-25.docx; 2012 Trends App A MASTER 1-25 .docx

Drew, Jim, and Tom,

Here is our draft 2012 CO2 and Fuel Economy Trends report. The timing of the report has been delayed by the Hyundai-Kia data issue, but we are now ready to proceed. Our treatment of the H-K data issue in this report is to include the corrected H-K data in the overall Trends database, to exclude rows for the two manufacturers in tables that compare individual manufacturers, and to have footnotes on those comparative tables explaining why the two manufacturers are not shown and to sometimes give values for those two manufacturers based on the corrected values. It is a balancing act to give the public the best data that we have at this time, while recognizing that there may be more uncertainty than normal about some of the data.

As always, the most important document is the Executive Summary, both because it summarizes the key messages of the report (7 "highlights" this year) and because it is what readers focus on. We have a "what's new" section at the beginning that summarizes the changes this year. The substantive result is that MY 2011, the last year for which we have final data, was a 0.2 mpg drop from MY 2010, but our messaging emphasizes that this was largely artificial due to the lower car production in Japan after the earthquake/tsunami/nuclear disaster, and it falls within a very favorable multi-year trend where fuel economy had increased significantly since 2005 and is projected to do so again in 2012.

2012 Executive Summary MAST...

Here is the Body of the report. I don't necessarily think it is worth your time to try to read through it all, but you are welcome if you want.

2012 Trends Body MASTER 1-25.d...

Finally, here is Appendix A, the one appendix with some text and important methodological pieces. This is important for NHTSA to review.

2012 Trends App A MASTER 1-25 .d...

While all of you are familiar with this report, we are happy to offer a briefing if any of you would like that. We would like to give any such briefing during the Feb. 1-7 window. Please let us know if you do want a briefing.

Our deadline for comments is Friday, Feb. 15. We are already late due to the H-K issue and we intend to release the report in late February.

Please contact me with any questions and we appreciate your help on this.

Jeff Alson
Transportation and Climate Division
Office of Transportation and Air Quality
U.S. EPA
Phone (734) 214-4296
Email: alson.jeff@epa.gov

Message

From: Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015F99F1C4082BB7AD8063B62FB9D-ZAREMSKI, SARA]
Sent: 2/4/2013 9:15:10 PM
To: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]
CC: Manners, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]
Subject: Fw: Due February 5: Agency Priority Goals: Q1 Reporting Deliverables
Attachments: LDHD Q1 FY13 Progress Survey 2_04_13.docx; Q1 FY 13 Detailed Progress Survey.docx

Byron and Lori,

Attached are the deliverables for the quarterly HPPG submission. I have a few areas highlighted with comments that I would appreciate your feedback on. The issues are related to LD and HD coastdown testing as well as removing the Hyundai/Kia information that was submitted for Q4 FY 13. Please let me know if you would like any changes made. I owe this back to Margaret tomorrow. Both documents have comments.

LDHD Q1 FY13 Progress Survey ... Q1 FY 13 Detailed Progress Survey....

Sara C. Zaremski
U.S. EPA - OTAQ
Compliance Division
Center Director, Data Analysis and Information Center
2000 Traverwood Drive
Ann Arbor, MI 48105

phone: (734)214-4362
Cell: (734) 223-0957
FAX: (734)214-4869
email: zaremski.sara@epa.gov
----- Forwarded by Sara Zaremski/AA/USEPA/US on 02/04/2013 04:11 PM -----

From: Margaret Walters/DC/USEPA/US

To: Sara Zaremski/AA/USEPA/US@EPA
Cc: Lori Stewart/DC/USEPA/US@EPA, Byron Bunker/AA/USEPA/US@EPA, Mary Manners/AA/USEPA/US@EPA
Date: 01/30/2013 01:13 PM
Subject: Due February 5: Agency Priority Goals: Q1 Reporting Deliverables

Dear Sara-

It was nice speaking with you and I appreciate your being at the ready to respond to this request.

Q1 Reporting to OMB

1. OTAQ - Respond to the Goal Leader survey - short and detailed by *COB February 5, 2013.*

[attachment "LDHD Q1 FY13 Progress Survey 1_30_13.docx" deleted by Sara Zaremski/AA/USEPA/US] [attachment "Q1 FY 13 Detailed Progress Survey.docx" deleted by Sara Zaremski/AA/USEPA/US]

2. OPMO - Input results information into Performance.gov by *February 7, 2013.*

Q1 Review Materials development Week of February 11

1. OCFO will develop first draft of meeting materials and I'll review and update using the info you submit and then run it past you/Lori. I will get you those materials by mid- February.

   a. Note: A part of the Q1 Discussion, there will be some focus on the development of the FY 2014-2015 APGs.

Q1 Priority Goals Review with the DA – Week of February 25 (Same Approach as Q3)

On a separate track, I'll be touching base with Betsy and Janet to give them a heads up that we need to start thinking about FY 2014-2015 APGs and what we may want to focus on - not just OTAQ but OAR-wide.

Please let me know if you have any questions. And thanks so much Sara!
Margaret

Margaret Walters
Planning and State Grants Liaison
U.S. Environmental Protection Agency
Office of Air and Radiation
Tel 202.564.4107

Message

From: Walters, Margaret [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=406F74D8F760452CB40E0A9D25C95C3B-WALTERS, MARGARET]
Sent: 1/30/2013 6:13:39 PM
To: Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]
CC: Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Manners, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]
Subject: Due February 5: Agency Priority Goals: Q1 Reporting Deliverables
Attachments: LDHD Q1 FY13 Progress Survey 1_30_13.docx; Q1 FY 13 Detailed Progress Survey.docx

Dear Sara-

It was nice speaking with you and I appreciate your being at the ready to respond to this request.

Q1 Reporting to OMB

1. OTAQ - Respond to the Goal Leader survey - short and detailed by *COB February 5, 2013.*

LDHD Q1 FY13 Progress Survey ... Q1 FY 13 Detailed Progress Survey....

2. OPMO - Input results information into Performance.gov by *February 7, 2013.*

Q1 Review Materials development Week of February 11

1. OCFO will develop first draft of meeting materials and I'll review and update using the info you submit and then run it past you/Lori. I will get you those materials by mid- February.

   a. Note: A part of the Q1 Discussion, there will be some focus on the development of the FY 2014-2015 APGs.

Q1 Priority Goals Review with the DA – Week of February 25 (Same Approach as Q3)

On a separate track, I'll be touching base with Betsy and Janet to give them a heads up that we need to start thinking about FY 2014-2015 APGs and what we may want to focus on - not just OTAQ but OAR-wide.

Please let me know if you have any questions. And thanks so much Sara!
Margaret

Margaret Walters
Planning and State Grants Liaison
U.S. Environmental Protection Agency
Office of Air and Radiation
Tel 202.564.4107

Message

From: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]
Sent: 1/25/2013 7:48:41 PM
To: Stewart, Gwen [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=3f8c5838943241caadb6005ffaddd7db-gstewart]; Shaffer, Patricia [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=47ce854437af49dab8ab700a46837fd5-PShaffer]; Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Ghanta, Venu [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7cf46c0305194992a35fd4fa7b1b78fc-vghanta]
CC: Manners, Mary [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]; Jackson, Cleophas [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=49ebd5e3637242ca84cfb4d53005a6d6-Jackson, Cleophas]; Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Greuel, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=76f822fa08344d0b85f00cb408a6c520-JGREUEL]; Weihrauch, John [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=74d426b7439045d9a0a65b186ea68b21-Jweihrau]; Cohen, Janet [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D94b854e69cd4f9e80db946bf9d1c1b2-Cohen, Janet]; Simon, Karl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Argyropoulos, Paul [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0149b93d2780437a9c2b6d8477df7991-pargyrop]
Subject: Materials for 3:00 CD Update
Attachments: hyundai 208 2013.docx; 2 Jan 25 2013 CD Update.pptx

Importance: High

Hi Pat & Gwen,

Attached are the materials for our 3:00 with Chris.

On the Hyundai letter, please print only pages 6-8.

Thanks,

Byron

2 Jan 25 2013 CD Update.pptx

hyundai 208 2013.docx

****

Byron Bunker
Division Director
Compliance Division
Office of Transportation and Air Quality
US Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
(734) 214-4155
(734) 214-4053 (fax)
(734) 353-9623 (cell)
e-mail: bunker.byron@epa.gov

****

Message

From: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]
Sent: 7/25/2013 9:35:13 PM
To: Alson, Jeff [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cbf363ab0a3944e4ae80def70b9826ba-Alson, Jeff]; Snapp, Lisa [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16e26d18ae97412c99db2f8ed5419449-Snapp, Lisa]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]
CC: Charmley, William [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fb1828fb00af42ffb68b9e0a71626d95-Charmley, William]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Stewart, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Manners, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]
Subject: Q & A for FE Label
Attachments: Hyundai Kia issue Qs&As 10 31 12 jao bjb 11 1 2012.docx

Hi Lisa and Jeff,

Attached are the Q&A's from the Hyundai/Kia rollout last year. I think many of these are likely to be re-asked again in the context of the FE Label discussion we will be having. Can you have someone add them (updating as appropriate) to the Q&A document the team has already started? I suspect Chris will be asking to see our Q&A document very soon given the positive outcome from today's meeting with Janet.

Can you also reach out to Chris Mylan and Madison Le to bring them into the fold? We need to start refining our rollout plan with press team as soon as possible.

I am going to be out of the office tomorrow and Monday. I expect to be back on Tuesday. Sara Zaremski will be acting for me tomorrow and Mary Manners on Monday.

Thanks,

Byron

****
Byron Bunker
Director Compliance Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
Bunker.Byron@epa.gov
Phone: (734) 214-4155
Mobile: (734) 353-9623
****

Message

From: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]
Sent: 1/25/2013 7:48:41 PM
To: Stewart, Gwen [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3f8c5838943241caadb6005ffaddd7db-gstewart]; Shaffer, Patricia [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=47ce854437af49dab8ab700a46837fd5-PShaffer]; Lori Stewart [Stewart.LoriLNDU@usepa.onmicrosoft.com]; Venu Ghanta [Ghanta.VenuLNDU@usepa.onmicrosoft.com]
CC: Manners, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ebdb1392504a4b71894970b1a7bb186c-Manners, Mary]; Jackson, Cleophas [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=49ebd5e3637242ca84cfb4d53005a6d6-Jackson, Cleophas]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Justin Greuel [Greuel.JustinLNDU@usepa.onmicrosoft.com]; Weihrauch, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=74d426b7439045d9a0a65b186ea68b21-Jweihrau]; Cohen, Janet [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d94b854e69cd4f9e80db946bf9d1c1b2-Cohen, Janet]; Simon, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4d781d1ad595415db3a4e768c2d2b3fc-Simon, Karl]; Paul Argyropoulos [Argyropoulos.PaulLNDU@usepa.onmicrosoft.com]
Subject: Materials for 3:00 CD Update
Attachments: hyundai 208 2013.docx; 2 Jan 25 2013 CD Update.pptx

Importance: High

Hi Pat & Gwen,

Attached are the materials for our 3:00 with Chris.

On the Hyundai letter, please print only pages 6-8.

Thanks,

Byron

2 Jan 25 2013 CD Update.pptx

hyundai 208 2013.docx

****

Byron Bunker
Division Director
Compliance Division
Office of Transportation and Air Quality

US Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
(734) 214-4155
(734) 214-4053 (fax)
(734) 353-9623 (cell)
e-mail: bunker.byron@epa.gov
****

Message

From: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DDF7BCF023D241A9A477A2DC75D5901C-BUNKER, BYRON]
Sent: 2/28/2013 3:50:45 PM
To: Cohen, Justin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6ec0000a0259452fa0f4d1c390a96859-jucohen]; Stewart, Lori [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8404f4ff6c924b2f8f3fb80c3a4467a7-lstewa04]; Stewart, Gwen [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=3f8c5838943241caadb6005ffaddd7db-gstewart]
CC: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Shaffer, Patricia [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=47ce854437af49dab8ab700a46837fd5-PShaffer]
Subject: Materials for 11:00 with Chris - USA Today Prep
Attachments: Anticipated QAs USA Today 28 Feb 2013.docx; Hyundai Kia issue Qs&As 10 31 12 jao bjb 11 1 2012.docx; USA Today 2 November 2012 How did they get it wrong.docx

Hi Pat,

Here are our materials for 11:00.

Thanks,

Byron

****
Byron Bunker
Director Compliance Division
Office of Transportation and Air Quality
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
Bunker.Byron@epa.gov
Phone: (734) 214-4155
Mobile: (734) 353-9623
****

6:34PM EDT November 2. 2012 - How did Hyundai-Kia get its estimated mileage ratings so wrong that it had to offer reimbursement to some 900,000 owners?

The truth is complicated, and it gets to the complexities of EPA testing.

Hyundai-Kia's Sung Hwan Cho told reporters this morning that it's "a very complex testing process." Cho heads the automaker's U.S. technical centers. He shed some light on the EPA tests, which lead to the city and highway fuel-economy figures on a new-car window sticker.

A key part of the tests involve measuring the resistance of various systems, dubbed the "road load" by engineers: how a car's tires meet the pavement, how the vehicle's shape cuts through the air and how the drivetrain's moving parts work in tandem. Each area translates to fuel efficiency, or lack thereof.

"There are hundreds of different parameters that can affect this road load," Cho said. "Ambient temperature, wind speeds, atmospheric pressure."

Then there's a litany of variations within each test vehicle — how many miles are on it, the condition of the drivetrain, the tire wear. Finally, the test procedures themselves involve "which kind of regulation and guidance procedures you follow, and how you process the data, and how you calibrate your measurements," he said.

Somewhere in those variations, Hyundai-Kia went askew of EPA guidance. But exactly how much guidance exists is up in the air.

Room for Interpretation?

"We added a few more stops and processes, which is different from what the EPA recommended," Cho said. The EPA process is rigid, "but there are also some points where we need some interpretation."

Commented [BB1]: This sounds like a troubling admission for them to make. He is saying they deliberately added steps not called for in J2263.

"This test is extremely complicated and delicate and sensitive," he said. "We have been introducing many different models of vehicles to the market over the past three or four years, so we need to handle various types of models within limited amounts of time. So that's made us improve the efficiency of the test itself — how you efficiently make the test and generate the results. By doing that ... we added a little [sic] more steps."

Commented [BB2]: Again with saying they deliberately deviated

An example: Hyundai-Kia used a test track instead of simulated public roads to break in its tires before testing, Cho said. That reflected inaccurate road resistance, the Detroit News reports. Hyundai-Kia changed its test procedures to reflect these calibrations in 2010, but the EPA's Ann Arbor, Mich., National Vehicle and Fuel Emission Laboratory observed discrepancies early this year. That led the agency to investigate. Not long after, a consumer watchdog group pressed claims that the automaker's Elantra sedan didn't get anywhere near its 40 mpg EPA highway rating.

By fall, the EPA had hinted at additional measures.

"We are meeting with [automakers] and testing vehicles to confirm that across the industry the road-load estimates provided to the agency are accurate and consistent," the EPA's Office of Transportation and Air Quality stated in a presentation at September's International Environmentally Friendly Vehicle Conference. The EPA surveys vehicles between 20,000 and 90,000 miles, but automakers perform compliance testing at various points throughout a 120,000-mile lifecycle.

"Nobody is trying to con anyone," Andrew Smart, director of industry relations at the Society of Automotive Engineers, told Cars.com. "What you're trying to do as engineers is [create] repeatability ... If there are any subtle differences in vehicle configuration, it's those that are measured and not the driving conditions of the track."

Commented [BB3]: I read this as a pretty benign statement about the purpose of a test procedure J2263 is to give a repeatable result and he is basically debunking the Hyundai track excuse offered above.

Closing the Gap

It remains to be seen how the EPA will address the gap in testing standards, or if it'll simply audit more cars. The agency currently audits about 15% of car models in a given year. Two EPA spokespeople did not immediately return requests for comment, but steps will be taken if the agency's record is any indication.

Commented [BB4]: Sounds positive to me. EPA has a track record of addressing issues.

"Manufacturers expect regulatory agencies to implement and enforce their programs in a way that ensures a fair and level playing field for all participants," according to the EPA's September presentation. "If a competitor evades an emissions regulation, they will not only realize a cost savings, but they will likely be able to offer product at a price point that gains sales that should have gone to other parties in the market."

The presentation noted that the EPA should ensure that manufacturers don't "defeat or circumvent regulations through elements of design or control."

The EPA could impose civil penalties on Hyundai-Kia, the Detroit News said; Hyundai Motor America President John Krafcik told the newspaper the automaker will fully cooperate. But SAE's Smart maintains the automaker wasn't willfully negligent.

"I think in this occasion, very clearly, they never tried to mislead people" Smart said. "There will be an internal review of what happened. ... What will happen is more data will be required, more definition will be required. It all comes down to more."

Commented [BB5]: Alright, he is just talking out of his ass now. He doesn't know what all of Hyundai's test additions were. No one at SAE is going to condone cherry picking cars, throwing out results and using tailwinds only. Obviously he doesn't know about any of that.

In the meantime, the rest of the industry — particularly carmakers with sky-high EPA ratings — will take notice. Hyundai's travails could result in higher oversight for mileage ratings not just from the EPA, but from within the industry.

Automakers "don't want to be affected by this, and therefore they will pay very, very close attention," Smart said. "This will be a wake-up call for other people that you cannot be complacent. ... The [automakers] are very cognizant of what's being said out there of their own product."

Commented [BB6]: I love this.

Message

From: Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015F99F1C4082BB7AD8063B62FB9D-ZAREMSKI, SARA]
Sent: 2/21/2013 7:02:25 PM
To: Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: FW: vehicle table attached
Attachments: 8-or-more-table.xlsx

From: French, Roberts
Sent: Thursday, February 21, 2013 1:58 PM
To: Zaremski, Sara
Subject: vehicle table attached

year	(All)

VehicleID	DriverID	Count of DriverID
25199	294514	1
	479764	1
25200	449538	3
25201	465631	43
	502991	1
25223	112314	66
	572251	1
	580979	1
25224	451882	33
25232	162713	3
	258991	2
	317213	105
25235	297697	1
	304952	79
25236	243577	71
	259439	2
	263101	1
	265725	7
	269914	12
	309995	1
	465962	1
	530079	1
25241	500910	4
25242	593027	1
25244	612311	7
25245	567129	1
25250	14304	1
	220739	1
	261025	88
25251	303661	2
	309811	80
	314305	1
	593806	1
25252	632965	1
25253	255005	2
25254	27956	1
	40652	2
	140418	2
	160517	2
	163487	9
	169733	3
	172832	312
	197298	3
	202429	78
	209798	59
	212501	136
	212563	3
	217204	98
	221605	2
	226611	38
	229138	1
	235866	1

VehicleID
25199
25199
25200
25201
25201
25223
25223
25223
25224
25232
25232
25232
25235
25235
25236
25236
25236
25236
25236
25236
25236
25236
25241
25242
25244
25245
25250
25250
25250
25251
25251
25251
25251
25252
25253
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254
25254

	237931	1	**25254**
	237937	4	**25254**
	238304	3	**25254**
	241220	1	**25254**
	241306	1	**25254**
	243394	1	**25254**
	244040	2	**25254**
	244174	113	**25254**
	250365	1	**25254**
	252147	1	**25254**
	253189	5	**25254**
	258946	1	**25254**
	262329	1	**25254**
	268794	1	**25254**
	273535	83	**25254**
	280586	1	**25254**
	281493	1	**25254**
	281892	1	**25254**
	282648	1	**25254**
	289357	1	**25254**
	300821	1	**25254**
	302312	88	**25254**
	304858	1	**25254**
	306354	204	**25254**
	310635	15	**25254**
	319254	1	**25254**
	421321	1	**25254**
	437931	62	**25254**
	519970	1	**25254**
	526647	1	**25254**
	542982	19	**25254**
	576074	2	**25254**
	585297	1	**25254**
25255	198649	4	**25255**
	232080	388	**25255**
	245804	1	**25255**
	274172	1	**25255**
	280328	1	**25255**
	297670	1	**25255**
	407491	1	**25255**
	439838	1	**25255**
	463948	39	**25255**
25256	302321	1	**25256**
	352070	5	**25256**
25257	356611	5	**25257**
25258	441081	30	**25258**
25259	277977	1	**25259**
	303519	1	**25259**
	493081	19	**25259**
	594306	4	**25259**
	621950	1	**25259**
25260	544509	70	**25260**
25261	622072	16	**25261**
25262	44001	20	**25262**
	63779	3	**25262**

25262	99847	1	**25262**
	232171	23	**25262**
	249328	1	**25262**
	274116	3	**25262**
	275824	2	**25262**
	275829	48	**25262**
	279028	2	**25262**
	279939	37	**25262**
	280989	16	**25262**
	281453	1	**25262**
	281956	1	**25262**
	282786	21	**25262**
	282858	77	**25262**
	284941	1	**25262**
	287045	66	**25262**
	288806	13	**25262**
	289569	35	**25262**
	289814	1	**25262**
	313218	8	**25262**
	315291	29	**25262**
	402751	1	**25262**
	439700	17	**25262**
	442303	1	**25262**
	448571	6	**25262**
	451743	99	**25262**
	524112	1	**25262**
	533231	58	**25262**
	545129	1	**25262**
	597387	1	**25262**
25263	40878	146	**25263**
	59997	7	**25263**
	74736	41	**25263**
	239243	21	**25263**
	253718	1	**25263**
	276944	1	**25263**
	284058	1	**25263**
	288329	1	**25263**
	289882	260	**25263**
	290283	19	**25263**
	301334	1	**25263**
	304921	1	**25263**
	320480	98	**25263**
	322664	66	**25263**
	348023	9	**25263**
	460478	1	**25263**
	462802	2	**25263**
	473354	1	**25263**
	499387	1	**25263**
	551638	1	**25263**
	552686	1	**25263**
	627724	1	**25263**
25264	283345	1	**25264**
25265	216325	104	**25265**
	329268	2	**25265**
25268	271404	1	**25268**

25269	262877	2	**25269**
	461676	1	**25269**
	611649	1	**25269**
	628867	4	**25269**
25271	484604	3	**25271**
25272	191771	1	**25272**
	283523	7	**25272**
	447204	14	**25272**
	593436	15	**25272**
25275	191611	2	**25275**
	232283	12	**25275**
	280705	127	**25275**
	303571	3	**25275**
	305082	2	**25275**
	478936	1	**25275**
25276	12247	21	**25276**
	23160	83	**25276**
	94338	10	**25276**
	95289	1	**25276**
	211277	129	**25276**
	228663	38	**25276**
	232839	14	**25276**
	236649	1	**25276**
	253357	5	**25276**
	260872	3	**25276**
	272098	80	**25276**
	278134	39	**25276**
	280204	10	**25276**
	289080	52	**25276**
	295169	125	**25276**
	318545	1	**25276**
	353638	16	**25276**
	451929	1	**25276**
	472862	2	**25276**
	543873	1	**25276**
	544797	11	**25276**
	561304	2	**25276**
	624066	4	**25276**
25277	88593	1	**25277**
	251150	4	**25277**
	597423	1	**25277**
25278	41437	1	**25278**
	79653	17	**25278**
	98678	5	**25278**
	155731	19	**25278**
	240779	57	**25278**
	242092	120	**25278**
	245275	1	**25278**
	248055	4	**25278**
	255145	1	**25278**
	259505	5	**25278**
	260230	1	**25278**
	273044	5	**25278**
	274315	7	**25278**
	289864	22	**25278**

	292321	2	**25278**
	294442	90	**25278**
	297064	1	**25278**
	300517	203	**25278**
	303723	29	**25278**
	310339	1	**25278**
	348975	1	**25278**
	391814	62	**25278**
	450214	15	**25278**
	475889	1	**25278**
	477454	1	**25278**
	478496	1	**25278**
	523426	1	**25278**
	597553	6	**25278**
	603957	1	**25278**
25279	463205	5	**25279**
	598296	21	**25279**
25284	237311	1	**25284**
	283403	37	**25284**
	449746	1	**25284**
25285	342284	1	**25285**
	479002	36	**25285**
25286	286551	1	**25286**
	319922	1	**25286**
	464160	40	**25286**
	474685	1	**25286**
	515978	93	**25286**
25287	64804	1	**25287**
	103436	238	**25287**
	154206	56	**25287**
	176936	20	**25287**
	202513	1	**25287**
	215204	2	**25287**
	254083	91	**25287**
	255256	1	**25287**
	261914	1	**25287**
	264622	31	**25287**
	267449	4	**25287**
	271774	3	**25287**
	276993	2	**25287**
	281267	1	**25287**
	282672	1	**25287**
	288085	35	**25287**
	299179	1	**25287**
	356857	1	**25287**
	431148	1	**25287**
	455299	2	**25287**
	466315	49	**25287**
	540821	32	**25287**
	608230	1	**25287**
25288	259839	2	**25288**
	547430	1	**25288**
25295	451217	53	**25295**
25296	305241	1	**25296**
25299	267914	25	**25299**

25300	290059	61	**25300**
	292342	1	**25300**
25301	481559	33	**25301**
25302	206304	1	**25302**
	236108	171	**25302**
	244722	1	**25302**
	255796	1	**25302**
	271346	1	**25302**
	277232	28	**25302**
	280552	1	**25302**
	290634	1	**25302**
	292944	1	**25302**
	447206	174	**25302**
	449602	13	**25302**
	492111	66	**25302**
	547927	1	**25302**
	552129	2	**25302**
25303	28067	1	**25303**
	30482	1	**25303**
	270224	2	**25303**
	276710	13	**25303**
	281975	35	**25303**
	284857	3	**25303**
	287184	2	**25303**
	301383	44	**25303**
25304	276860	26	**25304**
	282007	4	**25304**
	282384	2	**25304**
	286663	1	**25304**
	297899	1	**25304**
	320919	2	**25304**
25305	274583	1	**25305**
	303700	1	**25305**
25307	60545	54	**25307**
	270338	2	**25307**
	528553	2	**25307**
25308	371	13	**25308**
	70297	9	**25308**
	115538	1	**25308**
	219658	124	**25308**
	266176	1	**25308**
	267396	4	**25308**
	273499	8	**25308**
	279940	1	**25308**
	285964	75	**25308**
	294129	3	**25308**
	302185	263	**25308**
	319160	20	**25308**
25309	134730	1	**25309**
	256477	1	**25309**
	281750	4	**25309**
	576474	47	**25309**
	584359	5	**25309**
25310	66123	12	**25310**
	251411	1	**25310**

25310	264262	1	**25310**
	271885	1	**25310**
25311	28236	1	**25311**
	131613	118	**25311**
	189940	33	**25311**
	264372	6	**25311**
	282913	2	**25311**
	298499	11	**25311**
	475361	2	**25311**
	503573	1	**25311**
25312	603038	18	**25312**
25313	578779	16	**25313**
25314	462236	153	**25314**
25316	163722	104	**25316**
	182225	1	**25316**
	238135	1	**25316**
	256361	1	**25316**
	279652	99	**25316**
	289478	4	**25316**
	289541	11	**25316**
	290191	1	**25316**
	301717	2	**25316**
	310650	2	**25316**
	333127	3	**25316**
	426918	41	**25316**
	433197	29	**25316**
	477301	1	**25316**
	495407	1	**25316**
	572200	11	**25316**
25317	151623	35	**25317**
	178157	1	**25317**
	190505	107	**25317**
	207884	153	**25317**
	220752	1	**25317**
	223716	1	**25317**
	287041	65	**25317**
	289405	22	**25317**
	289607	112	**25317**
	289620	3	**25317**
	290158	1	**25317**
	290204	2	**25317**
	318205	120	**25317**
	466678	1	**25317**
	475151	1	**25317**
	494696	3	**25317**
	584669	1	**25317**
	628627	1	**25317**
25318	249944	77	**25318**
	469098	1	**25318**
25325	105154	1	**25325**
	193639	6	**25325**
	324123	6	**25325**
	447235	1	**25325**
	459496	36	**25325**
25327	551646	27	**25327**

25332	301172	1	**25332**
25338	345417	23	**25338**
25343	94562	1	**25343**
	437556	1	**25343**
	626605	2	**25343**
25345	443707	6	**25345**
25350	524482	1	**25350**
25351	465458	1	**25351**
25353	586656	1	**25353**
25356	262318	1	**25356**
25360	265253	1	**25360**
	284521	3	**25360**
	586750	8	**25360**
25362	275266	1	**25362**
	290802	1	**25362**
25363	203996	1	**25363**
	205194	32	**25363**
	252341	2	**25363**
	267400	1	**25363**
	297064	1	**25363**
	301551	1	**25363**
	412033	1	**25363**
	448931	2	**25363**
	462382	11	**25363**
	469872	68	**25363**
	490526	1	**25363**
25364	93904	65	**25364**
	138036	1	**25364**
	220739	49	**25364**
	235112	72	**25364**
	246662	19	**25364**
	258382	1	**25364**
	262581	26	**25364**
	268202	145	**25364**
	278328	2	**25364**
	309523	1	**25364**
	350613	1	**25364**
	461042	9	**25364**
	498377	131	**25364**
	545578	2	**25364**
	616229	5	**25364**
25368	301659	2	**25368**
	574235	1	**25368**
25369	249328	1	**25369**
	418488	21	**25369**
	606182	2	**25369**
25371	171142	12	**25371**
	286188	1	**25371**
	447118	31	**25371**
	455984	1	**25371**
25378	141255	61	**25378**
	459107	1	**25378**
25379	98678	26	**25379**
	260197	10	**25379**
	263361	6	**25379**

25379	303040	116	**25379**
	308375	116	**25379**
25389	529495	31	**25389**
25393	68220	130	**25393**
25396	246652	65	**25396**
25403	443993	124	**25403**
25407	176454	25	**25407**
	303926	87	**25407**
	337947	1	**25407**
	426024	78	**25407**
	439985	1	**25407**
25408	142365	7	**25408**
	496537	1	**25408**
	590798	1	**25408**
	620471	1	**25408**
25409	296688	1	**25409**
	339009	41	**25409**
	340089	218	**25409**
	400345	1	**25409**
	451847	168	**25409**
25410	306069	16	**25410**
	400716	1	**25410**
	418120	1	**25410**
	437381	40	**25410**
	488383	1	**25410**
	597754	1	**25410**
	623030	1	**25410**
25413	525160	7	**25413**
25414	228198	1	**25414**
	497884	1	**25414**
25415	261557	1	**25415**
	295061	1	**25415**
25417	191544	79	**25417**
25418	543559	1	**25418**
25421	238124	7	**25421**
	441459	1	**25421**
25424	286635	9	**25424**
	303443	2	**25424**
	317749	1	**25424**
	419426	1	**25424**
	466162	1	**25424**
	475023	3	**25424**
	485178	1	**25424**
	489345	15	**25424**
	491895	1	**25424**
25428	115049	12	**25428**
	319052	64	**25428**
	447890	7	**25428**
25430	307389	35	**25430**
25433	410657	4	**25433**
	528221	1	**25433**
25434	147265	4	**25434**
	300986	4	**25434**
	303141	55	**25434**
	318632	77	**25434**

25434	352045	48	**25434**
	440663	1	**25434**
	450741	12	**25434**
	462068	4	**25434**
	477919	60	**25434**
25435	443134	1	**25435**
	454265	2	**25435**
	458622	10	**25435**
	462881	2	**25435**
	463440	1	**25435**
	477713	61	**25435**
	493247	1	**25435**
	567201	4	**25435**
	575899	106	**25435**
25437	65252	1	**25437**
25439	140423	207	**25439**
	291762	4	**25439**
	324002	1	**25439**
	442451	1	**25439**
	527921	22	**25439**
25444	441334	1	**25444**
25445	73961	46	**25445**
25446	263577	79	**25446**
25454	463550	1	**25454**
25469	433485	7	**25469**
25472	435193	3	**25472**
25475	223120	4	**25475**
25476	449214	4	**25476**
25482	57431	4	**25482**
	228802	1	**25482**
	272227	5	**25482**
	274461	314	**25482**
	276476	1	**25482**
	282818	1	**25482**
	288947	2	**25482**
	308772	1	**25482**
	319805	1	**25482**
	362954	1	**25482**
	477491	1	**25482**
	608374	1	**25482**
25483	181697	77	**25483**
	231333	1	**25483**
	231740	35	**25483**
	540318	1	**25483**
25485	388590	13	**25485**
	443413	1	**25485**
	568799	37	**25485**
	581662	2	**25485**
25486	305172	1	**25486**
	491895	1	**25486**
25487	253823	1	**25487**
	317856	2	**25487**
25488	168191	1	**25488**
	502060	1	**25488**
25489	2352	6	**25489**

25489	30142	1	**25489**
	155364	1	**25489**
	320014	10	**25489**
	345062	1	**25489**
	407120	1	**25489**
	434569	83	**25489**
	450089	1	**25489**
25490	201860	6	**25490**
	241544	2	**25490**
	284521	2	**25490**
	320051	62	**25490**
	439545	5	**25490**
	462647	15	**25490**
25491	140935	104	**25491**
	308112	27	**25491**
	423421	8	**25491**
25492	224594	1	**25492**
	266676	1	**25492**
	284298	8	**25492**
	316886	1	**25492**
	415751	1	**25492**
	442036	1	**25492**
	451893	242	**25492**
	478143	5	**25492**
	512926	2	**25492**
25495	446237	1	**25495**
25496	450899	1	**25496**
	544858	5	**25496**
	571754	1	**25496**
25499	101820	1	**25499**
	176694	1	**25499**
25500	421855	45	**25500**
25501	254047	1	**25501**
	284035	27	**25501**
	316761	1	**25501**
	347493	1	**25501**
	454719	12	**25501**
	458796	34	**25501**
	524243	1	**25501**
25502	165788	52	**25502**
	181171	1	**25502**
	353066	1	**25502**
	520727	1	**25502**
	560753	1	**25502**
25503	37121	1	**25503**
	211604	68	**25503**
	288965	76	**25503**
	294922	2	**25503**
	297707	15	**25503**
	449303	13	**25503**
25505	221426	99	**25505**
	314490	9	**25505**
	585542	1	**25505**
	601571	2	**25505**
25506	274403	5	**25506**

25506	289420	159	**25506**
	441793	128	**25506**
	443611	30	**25506**
	468195	8	**25506**
	469533	1	**25506**
	549109	12	**25506**
	621668	43	**25506**
25507	86264	1	**25507**
	278863	1	**25507**
	288886	10	**25507**
	293021	3	**25507**
	303160	232	**25507**
	319417	3	**25507**
	371845	6	**25507**
	463597	89	**25507**
	560762	2	**25507**
25508	56833	6	**25508**
	290750	19	**25508**
	422592	4	**25508**
25512	110798	131	**25512**
	292571	1	**25512**
	428612	62	**25512**
	434398	1	**25512**
	447916	97	**25512**
	562308	1	**25512**
25513	461174	34	**25513**
	551750	1	**25513**
25524	29253	1	**25524**
	426284	1	**25524**
	445737	1	**25524**
	452808	1	**25524**
25531	153403	22	**25531**
	243194	4	**25531**
	283391	47	**25531**
	561608	1	**25531**
25533	152254	1	**25533**
	319040	28	**25533**
	381937	1	**25533**
25540	510848	1	**25540**
25541	169466	1	**25541**
	335938	1	**25541**
	441378	3	**25541**
	465003	1	**25541**
	605929	192	**25541**
	625821	1	**25541**
25544	321270	1	**25544**
	459293	64	**25544**
25557	300148	8	**25557**
	304225	19	**25557**
	436806	4	**25557**
25558	247617	1	**25558**
	596614	144	**25558**
25559	487506	1	**25559**
25572	68827	1	**25572**
	89088	3	**25572**

25572	299010	67	**25572**
	363852	1	**25572**
	426983	1	**25572**
	441530	1	**25572**
	446072	1	**25572**
	572499	43	**25572**
	593049	1	**25572**
	596179	62	**25572**
25573	300489	150	**25573**
25574	68233	1	**25574**
	69106	405	**25574**
	97596	9	**25574**
	162829	23	**25574**
	416565	12	**25574**
	438554	136	**25574**
	512317	1	**25574**
	617961	1	**25574**
25583	302978	1	**25583**
	442667	4	**25583**
	579330	1	**25583**
25584	569597	1	**25584**
25585	587651	1	**25585**
25587	100705	1	**25587**
25588	583042	15	**25588**
25590	571030	1	**25590**
25594	21094	87	**25594**
25595	170926	40	**25595**
	190744	28	**25595**
	303045	79	**25595**
	309993	8	**25595**
	322873	2	**25595**
	441437	10	**25595**
	527266	1	**25595**
25596	255295	2	**25596**
	336876	79	**25596**
	529578	92	**25596**
25598	215648	1	**25598**
	303421	1	**25598**
	314574	1	**25598**
	457869	1	**25598**
	468252	1	**25598**
25602	319425	1	**25602**
	529232	1	**25602**
25609	141850	1	**25609**
	450957	1	**25609**
	629353	1	**25609**
25618	217703	85	**25618**
	309490	14	**25618**
	447237	55	**25618**
	448894	84	**25618**
	576564	1	**25618**
	616687	1	**25618**
25619	305973	7	**25619**
	363069	2	**25619**
	551554	5	**25619**

25620	89431	32	**25620**
	131999	3	**25620**
	287622	1	**25620**
	302847	1	**25620**
	342845	19	**25620**
	413505	1	**25620**
	539814	61	**25620**
25621	264183	76	**25621**
	475474	117	**25621**
25622	77415	167	**25622**
	253699	6	**25622**
	295969	1	**25622**
	305083	1	**25622**
	438188	9	**25622**
	577635	2	**25622**
	609229	1	**25622**
25623	438054	2	**25623**
25630	71265	18	**25630**
	200642	4	**25630**
	308343	2	**25630**
25632	69089	58	**25632**
	450733	1	**25632**
	464971	1	**25632**
25633	449472	1	**25633**
	453375	2	**25633**
	458285	48	**25633**
	509116	1	**25633**
25635	288913	112	**25635**
	447534	16	**25635**
25639	11402	36	**25639**
	323709	1	**25639**
25644	224893	12	**25644**
	453547	1	**25644**
25645	196844	2	**25645**
25646	291199	4	**25646**
	307056	2	**25646**
25647	448797	65	**25647**
	469676	1	**25647**
25650	272220	15	**25650**
	335213	2	**25650**
	590276	1	**25650**
25652	394255	1	**25652**
25654	282202	1	**25654**
	291562	92	**25654**
	293920	2	**25654**
	308236	4	**25654**
	414129	2	**25654**
	596589	1	**25654**
25656	162510	1	**25656**
	546643	1	**25656**
25657	151655	56	**25657**
25660	462926	118	**25660**
	578344	1	**25660**
25668	217204	3	**25668**
	450899	1	**25668**

25669	285785	2	**25669**
25670	109745	1	**25670**
	241692	1	**25670**
	302999	1	**25670**
	335304	1	**25670**
25671	180882	5	**25671**
	298203	114	**25671**
	309459	1	**25671**
	351647	7	**25671**
	436809	1	**25671**
	444932	11	**25671**
	456813	1	**25671**
25672	193726	37	**25672**
	459779	19	**25672**
	486541	2	**25672**
	494687	22	**25672**
	542265	1	**25672**
25676	160151	1	**25676**
	284724	44	**25676**
	298658	3	**25676**
25681	474685	1	**25681**
25682	363294	6	**25682**
	445588	1	**25682**
25684	464378	24	**25684**
25689	369165	8	**25689**
	477873	1	**25689**
25694	601001	8	**25694**
25697	449266	2	**25697**
25703	65020	42	**25703**
25705	294941	97	**25705**
	627377	10	**25705**
25707	28116	1	**25707**
25718	510116	1	**25718**
25723	123774	26	**25723**
	368476	2	**25723**
25724	68137	114	**25724**
	335476	160	**25724**
	399469	2	**25724**
	439744	1	**25724**
	449595	97	**25724**
	553202	1	**25724**
25727	308745	1	**25727**
25729	319881	1	**25729**
25799	305879	9	**25799**
	449181	35	**25799**
	554911	1	**25799**
25800	455674	1	**25800**
25801	614749	1	**25801**
25802	140423	105	**25802**
	577821	134	**25802**
25813	448948	1	**25813**
25814	588951	1	**25814**
25828	458966	1	**25828**
25841	173511	4	**25841**
25849	599625	2	**25849**

25851	75658	102	**25851**
	470441	1	**25851**
	584027	1	**25851**
25869	1617	13	**25869**
	216008	7	**25869**
	273239	3	**25869**
	298875	46	**25869**
	303455	3	**25869**
	428683	5	**25869**
	429058	138	**25869**
	440812	182	**25869**
	447887	2	**25869**
	466079	3	**25869**
	472062	77	**25869**
	569562	1	**25869**
25870	54127	9	**25870**
	62680	1	**25870**
	119781	261	**25870**
	149372	168	**25870**
	172901	12	**25870**
	241939	1	**25870**
	247430	2	**25870**
	281832	5	**25870**
	283049	8	**25870**
	289289	1	**25870**
	290463	37	**25870**
	299996	4	**25870**
	301730	9	**25870**
	305791	76	**25870**
	306181	1	**25870**
	307092	1	**25870**
	309632	1	**25870**
	310770	1	**25870**
	317771	41	**25870**
	317933	33	**25870**
	339477	50	**25870**
	361050	1	**25870**
	419752	1	**25870**
	440237	74	**25870**
	440841	24	**25870**
	446144	6	**25870**
	455942	4	**25870**
	456288	4	**25870**
	465197	1	**25870**
	501000	1	**25870**
	523649	3	**25870**
	552371	7	**25870**
25872	483001	1	**25872**
25873	205540	1	**25873**
	447860	1	**25873**
	447918	2	**25873**
25881	192637	1	**25881**
	308881	1	**25881**
25891	306511	24	**25891**
	547876	1	**25891**

25892	255432	50	**25892**
	288449	1	**25892**
	302528	1	**25892**
	450023	4	**25892**
25893	38641	7	**25893**
	261497	2	**25893**
	269099	91	**25893**
	286246	44	**25893**
	316119	11	**25893**
	317736	8	**25893**
	343948	23	**25893**
	440034	1	**25893**
	496723	10	**25893**
	586786	6	**25893**
25894	266240	10	**25894**
	283055	5	**25894**
	293150	96	**25894**
	296919	11	**25894**
	297840	1	**25894**
	304135	7	**25894**
	306966	47	**25894**
	309928	22	**25894**
	317611	1	**25894**
	319870	4	**25894**
	331215	11	**25894**
	388823	1	**25894**
	526849	2	**25894**
25896	456142	67	**25896**
25897	128439	61	**25897**
25899	455909	2	**25899**
	483566	1	**25899**
	569917	1	**25899**
	578095	50	**25899**
25900	464623	1	**25900**
25909	356944	1	**25909**
25911	288745	1	**25911**
	448195	78	**25911**
25912	186298	1	**25912**
	602207	1	**25912**
25913	366714	1	**25913**
	376065	1	**25913**
25915	258148	7	**25915**
	291804	1	**25915**
	309037	1	**25915**
	323412	2	**25915**
	429452	1	**25915**
	460365	67	**25915**
	471330	1	**25915**
	503464	2	**25915**
25916	37214	162	**25916**
	111551	1	**25916**
	118695	2	**25916**
	148198	1	**25916**
	187024	6	**25916**
	266676	1	**25916**

25916	297168	3	**25916**
	303880	1	**25916**
	323980	2	**25916**
	348189	1	**25916**
	453143	1	**25916**
	457479	1	**25916**
	459540	7	**25916**
	503464	2	**25916**
25917	300106	1	**25917**
	586665	1	**25917**
25918	289451	1	**25918**
	473146	8	**25918**
25919	3236	51	**25919**
	58460	1	**25919**
	431162	1	**25919**
	552070	1	**25919**
	613633	1	**25919**
25921	122934	1	**25921**
	152481	168	**25921**
	155238	24	**25921**
	249089	1	**25921**
	309212	3	**25921**
	315463	17	**25921**
	317136	2	**25921**
	319588	78	**25921**
	319934	2	**25921**
	362862	1	**25921**
	439641	1	**25921**
	458699	14	**25921**
	547469	4	**25921**
	587441	1	**25921**
	607715	1	**25921**
	628824	3	**25921**
25922	40063	2	**25922**
	437587	1	**25922**
25923	454231	4	**25923**
	464758	68	**25923**
	514361	2	**25923**
	627402	3	**25923**
25924	451080	68	**25924**
25936	446245	1	**25936**
25937	419680	18	**25937**
	561171	1	**25937**
25938	182671	3	**25938**
	318722	1	**25938**
25939	56104	1	**25939**
	91742	3	**25939**
	325566	2	**25939**
	524992	7	**25939**
	593989	26	**25939**
25940	418305	1	**25940**
25942	26576	238	**25942**
25943	384647	3	**25943**
	447224	39	**25943**
25944	324617	1	**25944**

25945	299396	27	**25945**
25964	440244	30	**25964**
	582796	1	**25964**
25966	470292	1	**25966**
	540981	1	**25966**
25968	240177	34	**25968**
	423425	8	**25968**
25969	267750	1	**25969**
	440549	1	**25969**
	547013	1	**25969**
25971	571651	12	**25971**
25976	30135	1	**25976**
	449456	1	**25976**
25983	112798	13	**25983**
	172316	33	**25983**
	280792	2	**25983**
	296159	2	**25983**
	317622	1	**25983**
	432467	1	**25983**
	444680	15	**25983**
	504349	1	**25983**
	566134	38	**25983**
	583424	25	**25983**
	608240	1	**25983**
25985	182326	7	**25985**
25986	64939	1	**25986**
	334201	1	**25986**
	356331	92	**25986**
	472694	1	**25986**
	492234	4	**25986**
	559236	1	**25986**
	630647	1	**25986**
25987	86617	3	**25987**
	109428	1	**25987**
	196978	13	**25987**
	209067	1	**25987**
	258256	1	**25987**
	263214	6	**25987**
	272172	1	**25987**
	289000	46	**25987**
	296078	1	**25987**
	297510	1	**25987**
	301029	1	**25987**
	303635	16	**25987**
	306774	44	**25987**
	310429	160	**25987**
	310665	1	**25987**
	345489	1	**25987**
	350040	1	**25987**
	363613	2	**25987**
	402265	1	**25987**
	414469	20	**25987**
	447797	2	**25987**
	448195	73	**25987**
	459293	7	**25987**

	463218	1	**25987**
	488837	1	**25987**
	494020	1	**25987**
	516537	26	**25987**
	525967	1	**25987**
	559970	1	**25987**
	560378	1	**25987**
	573596	1	**25987**
	582361	1	**25987**
	594334	1	**25987**
	625009	1	**25987**
	630700	1	**25987**
25991	48356	98	**25991**
25997	268774	1	**25997**
25998	524205	1	**25998**
25999	151095	3	**25999**
	356944	1	**25999**
	508954	2	**25999**
	510944	1	**25999**
26004	553650	1	**26004**
	621305	1	**26004**
26005	427484	4	**26005**
	494595	1	**26005**
	510301	57	**26005**
26006	90579	8	**26006**
	116627	87	**26006**
	137847	28	**26006**
	240431	43	**26006**
	281155	9	**26006**
	291310	1	**26006**
	310856	10	**26006**
	339540	1	**26006**
	428174	1	**26006**
	440262	129	**26006**
	448529	46	**26006**
	463770	2	**26006**
	468060	187	**26006**
	504511	1	**26006**
	515125	1	**26006**
	593073	1	**26006**
26007	164956	33	**26007**
	190404	37	**26007**
	284724	45	**26007**
	299386	141	**26007**
	475708	22	**26007**
26009	138602	84	**26009**
26012	479005	2	**26012**
	574043	1	**26012**
	630922	2	**26012**
26014	449025	12	**26014**
26015	200338	7	**26015**
26019	219505	39	**26019**
	224543	61	**26019**
	236089	1	**26019**
	285914	5	**26019**

26019	288137	1	**26019**
	291208	4	**26019**
	293204	22	**26019**
	304402	8	**26019**
	304658	1	**26019**
	318394	1	**26019**
	319683	22	**26019**
	320521	5	**26019**
	320795	1	**26019**
	363154	2	**26019**
	429578	17	**26019**
	449456	1	**26019**
	450806	20	**26019**
	478937	1	**26019**
26020	31868	163	**26020**
	89415	1	**26020**
	101344	1	**26020**
	159078	4	**26020**
	173200	1	**26020**
	206517	15	**26020**
	283841	10	**26020**
	286094	6	**26020**
	286407	1	**26020**
	287971	28	**26020**
	302534	34	**26020**
	363517	10	**26020**
	405353	1	**26020**
	443293	80	**26020**
	445654	1	**26020**
	445788	1	**26020**
	447460	1	**26020**
	460508	11	**26020**
	473667	1	**26020**
	492908	48	**26020**
	500443	31	**26020**
	545272	2	**26020**
	554740	48	**26020**
26021	58460	48	**26021**
	94680	2	**26021**
	103436	9	**26021**
	108536	1	**26021**
	112314	13	**26021**
	176359	188	**26021**
	189275	1	**26021**
	229061	1	**26021**
	248911	12	**26021**
	260732	4	**26021**
	263002	1	**26021**
	282030	1	**26021**
	283794	1	**26021**
	288716	42	**26021**
	290875	46	**26021**
	299759	1	**26021**
	307327	19	**26021**
	309440	1	**26021**

	309761	3	**26021**
	310265	145	**26021**
	318499	1	**26021**
	345395	3	**26021**
	348476	1	**26021**
	351989	137	**26021**
	353515	114	**26021**
	417439	1	**26021**
	433646	6	**26021**
	440683	12	**26021**
	441932	1	**26021**
	467786	1	**26021**
	585588	9	**26021**
	597035	15	**26021**
26030	447634	96	**26030**
26041	91911	1	**26041**
	157104	79	**26041**
	314266	15	**26041**
	442944	2	**26041**
26042	431724	1	**26042**
26044	133911	1	**26044**
26049	414168	1	**26049**
26050	266972	15	**26050**
26051	182925	1	**26051**
26052	246925	5	**26052**
	284343	30	**26052**
26055	462710	39	**26055**
26062	266676	2	**26062**
26063	87690	100	**26063**
	360308	2	**26063**
26064	467304	4	**26064**
26067	362697	109	**26067**
26068	233095	15	**26068**
	293340	1	**26068**
	318929	81	**26068**
	590363	1	**26068**
26072	82685	2	**26072**
	165608	51	**26072**
	507933	1	**26072**
26073	147265	20	**26073**
	447098	1	**26073**
26077	450775	1	**26077**
26081	73718	15	**26081**
26084	50068	3	**26084**
	69242	15	**26084**
	139779	46	**26084**
	426715	1	**26084**
	477623	3	**26084**
	502607	3	**26084**
26091	350325	1	**26091**
	459243	1	**26091**
	464152	23	**26091**
	485076	19	**26091**
26095	318596	5	**26095**
26110	451900	9	**26110**

26112	121918	2	**26112**
	217506	3	**26112**
	429452	1	**26112**
26113	332435	1	**26113**
	391260	1	**26113**
26114	306202	1	**26114**
	515188	1	**26114**
26115	19564	17	**26115**
	148054	1	**26115**
	149372	140	**26115**
	168549	1	**26115**
	283987	170	**26115**
	339663	1	**26115**
	448553	26	**26115**
	574949	98	**26115**
	620089	1	**26115**
26117	544386	1	**26117**
26121	605119	1	**26121**
26127	166035	1	**26127**
	451007	1	**26127**
26130	127645	1	**26130**
	444198	1	**26130**
26132	167257	150	**26132**
	305452	1	**26132**
	354912	80	**26132**
	447984	1	**26132**
	464135	66	**26132**
	519144	2	**26132**
26136	427925	37	**26136**
26140	400932	63	**26140**
26141	616133	3	**26141**
26142	120984	15	**26142**
	325629	8	**26142**
	408225	96	**26142**
	424187	27	**26142**
26143	518857	14	**26143**
	611413	15	**26143**
26144	540271	1	**26144**
26151	264214	49	**26151**
	310074	56	**26151**
	427923	7	**26151**
	436804	1	**26151**
	571987	1	**26151**
26155	573070	1	**26155**
26160	191588	72	**26160**
	283987	167	**26160**
	293191	52	**26160**
	305338	1	**26160**
	564592	54	**26160**
	571730	6	**26160**
26163	182103	1	**26163**
	366113	8	**26163**
	592689	8	**26163**
26166	205714	1	**26166**
26172	530079	1	**26172**

26176	65359	21	**26176**
	172593	49	**26176**
	221845	2	**26176**
	310496	1	**26176**
	411640	1	**26176**
	449633	1	**26176**
	464114	32	**26176**
	471735	1	**26176**
	476741	1	**26176**
26185	516739	1	**26185**
26187	305655	1	**26187**
26188	211262	57	**26188**
	445825	1	**26188**
26189	148107	27	**26189**
	358558	1	**26189**
	469738	1	**26189**
	617166	4	**26189**
26193	190795	1	**26193**
	506126	1	**26193**
26195	294801	1	**26195**
26200	165977	216	**26200**
26202	144963	75	**26202**
	189760	15	**26202**
	205111	48	**26202**
	435623	17	**26202**
	451134	1	**26202**
	630723	2	**26202**
26206	629061	1	**26206**
26207	449713	1	**26207**
26213	69676	1	**26213**
	94261	15	**26213**
	197454	1	**26213**
	297735	3	**26213**
	314277	1	**26213**
	562115	1	**26213**
	570974	3	**26213**
26250	134301	13	**26250**
	230721	17	**26250**
	274676	7	**26250**
	305020	4	**26250**
	309895	44	**26250**
	356281	45	**26250**
	435559	1	**26250**
	577857	1	**26250**
	581231	1	**26250**
26252	292264	29	**26252**
	453730	1	**26252**
	475889	1	**26252**
26253	617644	1	**26253**
26254	379145	1	**26254**
26262	302374	1	**26262**
26279	472799	56	**26279**
26282	128580	89	**26282**
	429934	1	**26282**
26285	350053	1	**26285**

26285	463032	2	**26285**
26287	294801	1	**26287**
26288	287483	2	**26288**
	294801	1	**26288**
	294838	1	**26288**
	309408	3	**26288**
	309857	2	**26288**
	589431	1	**26288**
26289	63181	1	**26289**
	324215	9	**26289**
	348654	1	**26289**
	445456	1	**26289**
	497477	1	**26289**
	506039	1	**26289**
	589193	1	**26289**
	605814	1	**26289**
26290	449432	6	**26290**
	451217	1	**26290**
	462782	2	**26290**
26293	182231	1	**26293**
	290436	20	**26293**
	297571	2	**26293**
	305954	3	**26293**
	310681	1	**26293**
	338472	22	**26293**
	366885	1	**26293**
	421183	3	**26293**
	505477	1	**26293**
	608856	1	**26293**
26294	9312	32	**26294**
	49205	102	**26294**
	191377	51	**26294**
	296923	52	**26294**
	307635	1	**26294**
	316902	2	**26294**
	353642	1	**26294**
	371094	1	**26294**
	447204	20	**26294**
	452104	36	**26294**
	475043	1	**26294**
	489460	15	**26294**
	491460	1	**26294**
	495868	1	**26294**
26298	283096	18	**26298**
26306	459671	1	**26306**
	580884	13	**26306**
26307	345097	4	**26307**
	447964	1	**26307**
	631126	1	**26307**
26309	311207	1	**26309**
	587972	1	**26309**
	593668	1	**26309**
26318	314660	1	**26318**
	439821	1	**26318**
	529472	1	**26318**

26321	445825	1	**26321**
26324	447691	1	**26324**
	457721	23	**26324**
26348	261050	1	**26348**
	388941	40	**26348**
	519229	1	**26348**
26350	545805	4	**26350**
	576226	1	**26350**
26353	468996	10	**26353**
	527455	1	**26353**
26354	476593	1	**26354**
	520440	1	**26354**
26356	482616	1	**26356**
26358	464353	58	**26358**
26359	540403	1	**26359**
26365	107606	77	**26365**
	120116	9	**26365**
	260514	76	**26365**
	318499	1	**26365**
	319833	3	**26365**
	324539	3	**26365**
	345826	1	**26365**
	419511	6	**26365**
	433254	1	**26365**
	437799	11	**26365**
	441540	1	**26365**
	454816	121	**26365**
	456497	1	**26365**
	456621	1	**26365**
	472516	2	**26365**
	493194	5	**26365**
	586831	1	**26365**
	601793	1	**26365**
	622376	2	**26365**
26366	59412	48	**26366**
	206211	1	**26366**
	238892	1	**26366**
	306962	138	**26366**
	318056	19	**26366**
	318364	6	**26366**
	334624	4	**26366**
	362671	1	**26366**
	372721	1	**26366**
	433064	1	**26366**
	438938	1	**26366**
	440100	1	**26366**
	447970	25	**26366**
	448456	1	**26366**
	454303	4	**26366**
	462471	1	**26366**
	474203	36	**26366**
	480850	14	**26366**
	481173	3	**26366**
	484770	11	**26366**
	484924	29	**26366**

26366	485011	1	**26366**
	514496	1	**26366**
	586420	1	**26366**
	611629	13	**26366**
	628882	1	**26366**
	630500	1	**26366**
26367	144198	2	**26367**
	335934	16	**26367**
	469726	1	**26367**
	626619	1	**26367**
26368	258233	6	**26368**
	283523	7	**26368**
	284508	7	**26368**
	352550	1	**26368**
	410701	1	**26368**
	452137	3	**26368**
	462390	118	**26368**
	464820	2	**26368**
	466763	10	**26368**
	476802	1	**26368**
	564948	1	**26368**
	625484	4	**26368**
26371	438019	32	**26371**
26372	292152	1	**26372**
	363923	10	**26372**
	454588	31	**26372**
	458434	2	**26372**
	624360	1	**26372**
26373	244062	10	**26373**
	447605	125	**26373**
	463963	14	**26373**
	486177	9	**26373**
	623883	1	**26373**
26374	193050	77	**26374**
	454581	2	**26374**
	460287	126	**26374**
	466630	1	**26374**
	476665	15	**26374**
	481420	3	**26374**
	554559	10	**26374**
	570271	1	**26374**
	596272	1	**26374**
26375	38702	24	**26375**
	58460	71	**26375**
	70735	67	**26375**
	448116	1	**26375**
	449474	1	**26375**
	457223	1	**26375**
	498207	1	**26375**
	510180	1	**26375**
	548957	8	**26375**
	568566	1	**26375**
	621612	1	**26375**
26376	10425	40	**26376**
	90430	21	**26376**

26376	107356	1	**26376**
	207414	17	**26376**
	231437	5	**26376**
	266676	1	**26376**
	283523	7	**26376**
	314302	40	**26376**
	325344	6	**26376**
	334182	103	**26376**
	350448	38	**26376**
	418764	15	**26376**
	427603	44	**26376**
	438257	1	**26376**
	454738	1	**26376**
	468012	53	**26376**
	468499	2	**26376**
	472856	182	**26376**
	479968	55	**26376**
	483218	4	**26376**
	487035	1	**26376**
	488154	1	**26376**
	514490	2	**26376**
	544017	1	**26376**
	563000	1	**26376**
	590571	1	**26376**
	612985	1	**26376**
	616740	15	**26376**
	632579	8	**26376**
26377	284531	1	**26377**
	285964	62	**26377**
	314979	65	**26377**
	457272	4	**26377**
	468012	27	**26377**
	487762	2	**26377**
	551173	1	**26377**
26379	549864	1	**26379**
	573584	1	**26379**
26386	467798	1	**26386**
26399	331692	1	**26399**
26401	995	1	**26401**
	27561	1	**26401**
	135812	1	**26401**
	178012	1	**26401**
	185389	1	**26401**
	197019	1	**26401**
	204655	23	**26401**
	295765	68	**26401**
	309883	1	**26401**
	461605	1	**26401**
	476657	1	**26401**
	485359	1	**26401**
	555127	1	**26401**
	559764	1	**26401**
	563913	1	**26401**
	592833	1	**26401**
	597800	3	**26401**

26402	135174	1	**26402**
	314497	2	**26402**
	440963	1	**26402**
	449524	4	**26402**
	461012	1	**26402**
	492510	1	**26402**
26403	447328	47	**26403**
	449816	148	**26403**
	471300	1	**26403**
26405	59418	86	**26405**
	69649	13	**26405**
	161427	91	**26405**
	164077	125	**26405**
	232773	1	**26405**
	281726	105	**26405**
	317970	1	**26405**
	318791	1	**26405**
	319073	8	**26405**
	319545	1	**26405**
	334219	62	**26405**
	335618	2	**26405**
	337561	2	**26405**
	345618	1	**26405**
	407418	1	**26405**
	438541	23	**26405**
	441895	2	**26405**
	448181	1	**26405**
	450123	2	**26405**
	450975	106	**26405**
	457342	1	**26405**
	462787	11	**26405**
	464498	1	**26405**
	466332	13	**26405**
	469691	1	**26405**
	471571	1	**26405**
	472326	1	**26405**
	472848	1	**26405**
	475191	22	**26405**
	482530	1	**26405**
	488276	9	**26405**
	500614	5	**26405**
	525126	16	**26405**
	540485	1	**26405**
	541715	1	**26405**
	546326	1	**26405**
	548276	1	**26405**
	549054	1	**26405**
	553227	54	**26405**
	559822	1	**26405**
	574308	2	**26405**
	580796	1	**26405**
	582527	1	**26405**
	601543	6	**26405**
	615815	3	**26405**
	629795	1	**26405**

26405	630320	80	**26405**
	631872	18	**26405**
	633214	1	**26405**
26412	172794	129	**26412**
26415	32621	17	**26415**
	445898	6	**26415**
	470041	13	**26415**
	484799	7	**26415**
26419	300540	1	**26419**
26420	164833	151	**26420**
	383626	10	**26420**
	503114	1	**26420**
26422	160060	3	**26422**
	170730	11	**26422**
	250358	1	**26422**
	255858	110	**26422**
	299062	109	**26422**
	323472	2	**26422**
	352501	1	**26422**
	434906	4	**26422**
	441519	3	**26422**
	450234	8	**26422**
	451370	3	**26422**
	456014	65	**26422**
	477812	1	**26422**
	504797	29	**26422**
	553913	2	**26422**
	571577	1	**26422**
	572590	36	**26422**
	598584	3	**26422**
	631154	1	**26422**
26423	63655	1	**26423**
	400210	44	**26423**
26424	285875	32	**26424**
	291627	2	**26424**
	439415	77	**26424**
	479120	1	**26424**
	605656	14	**26424**
26425	2875	10	**26425**
	31050	185	**26425**
	40652	1	**26425**
	42446	6	**26425**
	63968	41	**26425**
	73319	6	**26425**
	74018	53	**26425**
	76537	89	**26425**
	92595	1	**26425**
	101577	3	**26425**
	107922	56	**26425**
	114188	15	**26425**
	133200	4	**26425**
	147808	1	**26425**
	151101	2	**26425**
	152382	55	**26425**
	153139	2	**26425**

155634	130	**26425**
159336	39	**26425**
161479	2	**26425**
164077	44	**26425**
167261	35	**26425**
169550	14	**26425**
172811	64	**26425**
174396	85	**26425**
177476	1	**26425**
177496	23	**26425**
185294	101	**26425**
187024	6	**26425**
191377	11	**26425**
194456	23	**26425**
194869	115	**26425**
202469	1	**26425**
208058	17	**26425**
208265	1	**26425**
210230	8	**26425**
213668	1	**26425**
220851	1	**26425**
232171	3	**26425**
233022	38	**26425**
250200	1	**26425**
259022	1	**26425**
261025	22	**26425**
263015	7	**26425**
265873	2	**26425**
270395	70	**26425**
274213	120	**26425**
278846	1	**26425**
290875	67	**26425**
291521	6	**26425**
296074	16	**26425**
306612	91	**26425**
313918	68	**26425**
314302	4	**26425**
325267	5	**26425**
345454	3	**26425**
346131	40	**26425**
347704	1	**26425**
349870	1	**26425**
352214	7	**26425**
353892	1	**26425**
353924	1	**26425**
353960	1	**26425**
354075	1	**26425**
366113	14	**26425**
367455	13	**26425**
368648	76	**26425**
370687	1	**26425**
371094	1	**26425**
371333	3	**26425**
379445	174	**26425**
379500	1	**26425**

380998	1	**26425**
396099	14	**26425**
408676	1	**26425**
411794	2	**26425**
412422	17	**26425**
415871	2	**26425**
415950	1	**26425**
417485	81	**26425**
422627	181	**26425**
424833	109	**26425**
424839	64	**26425**
430592	92	**26425**
436890	14	**26425**
437383	2	**26425**
437389	8	**26425**
437431	2	**26425**
438106	1	**26425**
438263	1	**26425**
440163	1	**26425**
440589	12	**26425**
441695	20	**26425**
442268	1	**26425**
443052	1	**26425**
443053	30	**26425**
447122	107	**26425**
448862	6	**26425**
449983	51	**26425**
450034	33	**26425**
451115	3	**26425**
451120	1	**26425**
451536	1	**26425**
451966	16	**26425**
453860	83	**26425**
457683	1	**26425**
458187	4	**26425**
458560	1	**26425**
458870	162	**26425**
460927	1	**26425**
461323	53	**26425**
461774	4	**26425**
463239	148	**26425**
463342	8	**26425**
464152	26	**26425**
464320	1	**26425**
469115	1	**26425**
469460	3	**26425**
472847	25	**26425**
473246	81	**26425**
474208	1	**26425**
474398	1	**26425**
474794	1	**26425**
475285	1	**26425**
477462	11	**26425**
481562	52	**26425**
482349	112	**26425**

	483093	43	**26425**
	485603	29	**26425**
	492018	1	**26425**
	494764	1	**26425**
	494969	1	**26425**
	495371	125	**26425**
	500930	77	**26425**
	503866	1	**26425**
	504955	1	**26425**
	505812	27	**26425**
	510261	11	**26425**
	510945	12	**26425**
	513804	1	**26425**
	515625	37	**26425**
	518075	1	**26425**
	518536	27	**26425**
	523407	1	**26425**
	524729	24	**26425**
	526054	82	**26425**
	526202	1	**26425**
	526581	1	**26425**
	528411	1	**26425**
	529553	1	**26425**
	529578	108	**26425**
	540017	1	**26425**
	540877	1	**26425**
	542984	18	**26425**
	544015	1	**26425**
	557867	1	**26425**
	567894	1	**26425**
	569724	1	**26425**
	569772	10	**26425**
	571271	1	**26425**
	574093	18	**26425**
	578990	1	**26425**
	583121	1	**26425**
	585778	1	**26425**
	588206	1	**26425**
	589494	1	**26425**
	599532	30	**26425**
	599555	1	**26425**
	602372	1	**26425**
	602771	12	**26425**
	615745	3	**26425**
	617369	2	**26425**
	628852	151	**26425**
	628855	5	**26425**
	630009	1	**26425**
26427	995	1	**26427**
	4772	78	**26427**
	88610	7	**26427**
	448195	50	**26427**
26428	83639	1	**26428**
	169478	28	**26428**
	441334	1	**26428**

26428	451846	7	**26428**
	504827	1	**26428**
	506209	2	**26428**
	593038	1	**26428**
	610430	9	**26428**
26429	449166	1	**26429**
	477963	11	**26429**
	546088	1	**26429**
26430	462686	1	**26430**
	586639	2	**26430**
26431	140627	172	**26431**
	182474	6	**26431**
	346279	1	**26431**
	478817	35	**26431**
	497626	1	**26431**
	514269	48	**26431**
	515748	1	**26431**
	560980	6	**26431**
	610508	7	**26431**
26432	271413	1	**26432**
26437	551750	1	**26437**
26440	143956	46	**26440**
	177401	1	**26440**
	309550	277	**26440**
	356534	78	**26440**
	386049	1	**26440**
	448325	6	**26440**
	456082	2	**26440**
	462896	147	**26440**
	464052	16	**26440**
	488771	4	**26440**
	511722	2	**26440**
26441	350731	13	**26441**
	436163	2	**26441**
	444153	105	**26441**
	462567	82	**26441**
26442	250314	56	**26442**
	622473	1	**26442**
26447	74827	109	**26447**
	122073	50	**26447**
	154356	1	**26447**
	521149	1	**26447**
26448	543742	34	**26448**
26452	157119	66	**26452**
	481939	1	**26452**
	562666	1	**26452**
26453	455908	1	**26453**
	463799	7	**26453**
	583339	188	**26453**
26455	313988	190	**26455**
26457	463718	16	**26457**
	532913	1	**26457**
26458	27123	39	**26458**
26459	444454	1	**26459**
	454899	7	**26459**

26459	475920	1	**26459**
	621387	1	**26459**
26460	208801	3	**26460**
	527956	6	**26460**
	527996	51	**26460**
	547049	3	**26460**
26462	467956	10	**26462**
	557752	1	**26462**
	605818	1	**26462**
	607243	1	**26462**
26463	91176	6	**26463**
	97955	9	**26463**
	371274	6	**26463**
	430203	1	**26463**
	430833	2	**26463**
26464	563534	1	**26464**
26465	515188	1	**26465**
26466	73747	1	**26466**
	104433	1	**26466**
	170040	2	**26466**
	181942	1	**26466**
	220372	1	**26466**
	350963	1	**26466**
	457524	3	**26466**
	459034	12	**26466**
	463561	1	**26466**
	467350	1	**26466**
	467703	71	**26466**
	478133	65	**26466**
	502367	1	**26466**
	512026	1	**26466**
	526730	47	**26466**
	569078	2	**26466**
	585706	30	**26466**
26467	499248	1	**26467**
	514723	1	**26467**
26468	456519	1	**26468**
	477308	9	**26468**
	507446	105	**26468**
26469	454390	1	**26469**
	456519	1	**26469**
	458688	120	**26469**
	479198	20	**26469**
	549094	1	**26469**
26472	379145	1	**26472**
	461468	1	**26472**
26473	171464	1	**26473**
	478761	1	**26473**
	525095	1	**26473**
	617259	1	**26473**
26482	540148	1	**26482**
26483	162841	2	**26483**
	441778	112	**26483**
	466158	1	**26483**
	466274	2	**26483**

26484	508418	1	**26484**
26485	480826	16	**26485**
	480872	1	**26485**
26490	566269	1	**26490**
26495	492376	1	**26495**
26496	48224	1	**26496**
	52609	83	**26496**
	151174	1	**26496**
	477597	1	**26496**
	480707	1	**26496**
26511	147650	65	**26511**
	258244	7	**26511**
	410583	14	**26511**
	450182	1	**26511**
	452425	1	**26511**
	453301	3	**26511**
	476883	1	**26511**
	478586	1	**26511**
	478758	182	**26511**
	494628	8	**26511**
	505025	2	**26511**
	570297	1	**26511**
	589155	18	**26511**
	610454	1	**26511**
26512	146367	7	**26512**
	449333	1	**26512**
26513	135096	2	**26513**
	456988	1	**26513**
	459184	35	**26513**
	542218	1	**26513**
	572434	1	**26513**
26515	202403	1	**26515**
	597399	1	**26515**
26517	547716	1	**26517**
26520	189318	54	**26520**
26525	449852	1	**26525**
	577486	1	**26525**
26531	317213	42	**26531**
26542	482073	1	**26542**
	567902	1	**26542**
26544	136970	5	**26544**
	175367	6	**26544**
	276418	1	**26544**
	336905	2	**26544**
	423021	10	**26544**
	439962	163	**26544**
	441506	1	**26544**
26545	434871	76	**26545**
	444903	101	**26545**
26546	435831	1	**26546**
	513569	37	**26546**
26547	219140	2	**26547**
26550	74804	132	**26550**
	93244	115	**26550**
	154117	33	**26550**

26550	330724	17	**26550**
	466287	51	**26550**
26556	413952	10	**26556**
	459815	1	**26556**
26558	195290	1	**26558**
	342442	1	**26558**
	471057	54	**26558**
	544274	1	**26558**
28526	448894	76	**28526**
28537	378788	1	**28537**
28547	628399	1	**28547**
28552	509633	3	**28552**
28553	195184	2	**28553**
28554	473741	1	**28554**
	623532	1	**28554**
28556	616034	3	**28556**
28572	11402	16	**28572**
	58749	7	**28572**
	200255	5	**28572**
	217048	30	**28572**
	449295	1	**28572**
	479636	1	**28572**
	547473	1	**28572**
	579492	1	**28572**
	616182	1	**28572**
	628399	1	**28572**
28573	446621	188	**28573**
28574	545961	1	**28574**
28577	458566	2	**28577**
28580	500665	2	**28580**
28582	111551	1	**28582**
	137155	9	**28582**
	492495	1	**28582**
	523303	1	**28582**
	600714	1	**28582**
28583	84600	82	**28583**
28584	476134	130	**28584**
	476846	1	**28584**
	528575	3	**28584**
28585	464006	1	**28585**
	526690	1	**28585**
28586	193639	1	**28586**
28587	191297	1	**28587**
	514248	15	**28587**
28588	73481	3	**28588**
	133316	36	**28588**
	151174	1	**28588**
	180939	131	**28588**
	474147	3	**28588**
	474600	1	**28588**
	526782	1	**28588**
	556934	1	**28588**
	562775	2	**28588**
	592774	1	**28588**
28593	198121	32	**28593**

28594	611339	5	**28594**
28600	469319	2	**28600**
	579662	29	**28600**
28601	52042	1	**28601**
	519011	3	**28601**
	520313	1	**28601**
28606	514461	7	**28606**
28607	150156	69	**28607**
28608	53005	7	**28608**
	440609	46	**28608**
	473032	1	**28608**
	482333	4	**28608**
	607456	2	**28608**
28611	169426	4	**28611**
	309883	1	**28611**
	466975	107	**28611**
28612	169426	4	**28612**
	577635	2	**28612**
28613	459172	1	**28613**
28615	242355	2	**28615**
28617	509398	1	**28617**
28619	578187	1	**28619**
28629	39354	16	**28629**
	256509	6	**28629**
	449059	108	**28629**
	458147	2	**28629**
	471789	1	**28629**
	479275	9	**28629**
	495541	1	**28629**
28630	469063	152	**28630**
	587565	1	**28630**
28632	488285	1	**28632**
	497034	1	**28632**
	580952	1	**28632**
28637	488471	9	**28637**
	550945	99	**28637**
	553594	72	**28637**
	566459	84	**28637**
28638	502821	13	**28638**
28640	27939	5	**28640**
	296772	6	**28640**
	494965	2	**28640**
28645	447778	2	**28645**
	494637	1	**28645**
28646	574253	1	**28646**
28648	216127	55	**28648**
	286235	75	**28648**
	291743	6	**28648**
	447519	48	**28648**
	453256	90	**28648**
	454729	1	**28648**
	456651	68	**28648**
	462479	13	**28648**
28657	492111	18	**28657**
28661	519009	1	**28661**

28661	552976	1	**28661**
	616616	1	**28661**
28668	28510	1	**28668**
	258473	99	**28668**
28669	60743	2	**28669**
28670	436914	15	**28670**
	540482	1	**28670**
28671	127645	1	**28671**
	457479	1	**28671**
28680	122905	112	**28680**
	151708	81	**28680**
28681	456978	51	**28681**
	580355	1	**28681**
28684	487906	1	**28684**
	615325	1	**28684**
28685	581753	8	**28685**
28690	34133	1	**28690**
28692	451669	2	**28692**
28695	499296	1	**28695**
28696	512248	1	**28696**
28705	221721	13	**28705**
28712	38031	2	**28712**
28713	128435	37	**28713**
	524940	1	**28713**
28716	185664	2	**28716**
	464242	4	**28716**
	521302	1	**28716**
28721	477323	1	**28721**
28725	209580	11	**28725**
	579340	1	**28725**
	616740	1	**28725**
28727	103568	1	**28727**
	132511	59	**28727**
	610176	1	**28727**
28730	163816	41	**28730**
	467180	3	**28730**
	585721	1	**28730**
28731	223082	20	**28731**
28732	317	222	**28732**
	107413	126	**28732**
	354376	75	**28732**
	458170	85	**28732**
	487169	44	**28732**
	519977	9	**28732**
	570671	1	**28732**
28735	138637	101	**28735**
	540696	2	**28735**
28736	155162	19	**28736**
	473884	1	**28736**
	506209	2	**28736**
28747	480394	1	**28747**
28750	133911	1	**28750**
	462382	102	**28750**
	464726	30	**28750**
	485566	61	**28750**

28753	592376	42	**28753**
28754	584060	1	**28754**
28763	539359	79	**28763**
28770	169478	68	**28770**
	561750	1	**28770**
28771	448878	110	**28771**
	509529	13	**28771**
	510135	1	**28771**
	625631	1	**28771**
28775	563270	1	**28775**
28784	447252	109	**28784**
	487924	70	**28784**
	572549	1	**28784**
28786	464378	7	**28786**
28788	619132	1	**28788**
28790	516460	1	**28790**
28794	69387	102	**28794**
28796	71670	40	**28796**
	340797	6	**28796**
	509846	1	**28796**
	520797	1	**28796**
	527373	1	**28796**
	598950	122	**28796**
28797	154206	33	**28797**
28798	614494	1	**28798**
28803	568786	1	**28803**
28806	184289	1	**28806**
28807	132548	1	**28807**
	475361	5	**28807**
	484535	1	**28807**
	528467	1	**28807**
	545425	1	**28807**
	592148	1	**28807**
28815	455230	48	**28815**
28816	253213	30	**28816**
	365920	79	**28816**
	439565	1	**28816**
	483426	54	**28816**
28817	140152	87	**28817**
	203229	72	**28817**
	394911	1	**28817**
	445249	1	**28817**
	628958	1	**28817**
28821	456994	5	**28821**
28822	443236	18	**28822**
	475571	1	**28822**
	559343	1	**28822**
28832	478721	4	**28832**
29286	265956	186	**29286**
	437157	12	**29286**
	613490	1	**29286**
29290	96843	5	**29290**
	474728	8	**29290**
	620682	1	**29290**
29291	68562	53	**29291**

29291	456623	4	**29291**
	460961	1	**29291**
	482888	2	**29291**
	488960	62	**29291**
	505280	14	**29291**
	539885	1	**29291**
	558373	1	**29291**
	599386	1	**29291**
	617502	1	**29291**
	631626	1	**29291**
29292	301172	1	**29292**
	464514	1	**29292**
29293	476978	5	**29293**
	490267	1	**29293**
	491404	1	**29293**
	549259	1	**29293**
	567915	7	**29293**
	586897	2	**29293**
29294	481522	2	**29294**
	575691	1	**29294**
29300	149820	33	**29300**
29308	482088	1	**29308**
	527111	1	**29308**
29314	108198	2	**29314**
29315	470197	8	**29315**
29323	610020	26	**29323**
29324	165885	38	**29324**
29355	199199	22	**29355**
29363	223956	18	**29363**
29364	490663	1	**29364**
29367	124084	3	**29367**
	408800	1	**29367**
	437424	62	**29367**
	461654	1	**29367**
	463507	2	**29367**
	474299	91	**29367**
29369	194998	12	**29369**
29372	466079	2	**29372**
	506584	6	**29372**
29381	343523	27	**29381**
	433205	1	**29381**
	465933	6	**29381**
	466404	2	**29381**
29382	84897	1	**29382**
	468725	1	**29382**
29406	40588	3	**29406**
	56104	1	**29406**
	68147	13	**29406**
	155811	1	**29406**
	160060	13	**29406**
	176805	49	**29406**
	452502	113	**29406**
	478898	15	**29406**
	503260	1	**29406**
	550823	1	**29406**

29406	557110	1	**29406**
	558407	7	**29406**
	597764	2	**29406**
29407	136736	66	**29407**
	279652	33	**29407**
	466138	1	**29407**
	471594	7	**29407**
	564422	1	**29407**
29408	44492	7	**29408**
	58537	1	**29408**
	148198	5	**29408**
	158605	47	**29408**
	314191	1	**29408**
	440077	1	**29408**
	449058	1	**29408**
	462227	1	**29408**
	464970	22	**29408**
	475415	1	**29408**
	477923	1	**29408**
	495407	3	**29408**
	495779	86	**29408**
	497635	6	**29408**
	564817	73	**29408**
	580264	1	**29408**
	608857	1	**29408**
	616656	1	**29408**
29409	88964	1	**29409**
	134292	63	**29409**
	134752	38	**29409**
	140027	17	**29409**
	182552	1	**29409**
	188321	103	**29409**
	394293	74	**29409**
	438789	42	**29409**
	444780	68	**29409**
	468055	1	**29409**
	490937	9	**29409**
	500473	71	**29409**
	518430	4	**29409**
	550857	56	**29409**
	606125	1	**29409**
	613669	24	**29409**
29414	245656	11	**29414**
	461654	1	**29414**
	626265	1	**29414**
29415	26918	2	**29415**
	212200	72	**29415**
	254388	60	**29415**
	273535	34	**29415**
	316172	2	**29415**
	451396	48	**29415**
	454239	28	**29415**
	454385	1	**29415**
	462326	1	**29415**
	467158	45	**29415**

29415	469507	13	**29415**
	469739	1	**29415**
	470038	1	**29415**
	484799	4	**29415**
	487036	88	**29415**
	547698	1	**29415**
29416	90891	1	**29416**
	261285	1	**29416**
	298292	20	**29416**
	440916	125	**29416**
	446004	1	**29416**
	454929	39	**29416**
	463491	21	**29416**
	470749	1	**29416**
	482917	1	**29416**
	484316	2	**29416**
	486204	1	**29416**
	498159	1	**29416**
	593140	1	**29416**
29419	514235	1	**29419**
29439	447290	5	**29439**
	464039	71	**29439**
	474068	1	**29439**
	476063	1	**29439**
	601711	1	**29439**
	628316	4	**29439**
29442	261557	1	**29442**
	503169	1	**29442**
29444	627386	1	**29444**
29448	38635	1	**29448**
	169175	1	**29448**
	466494	1	**29448**
	575591	1	**29448**
29450	571144	1	**29450**
29453	524787	1	**29453**
	544383	1	**29453**
	625404	1	**29453**
29455	527617	1	**29455**
	568010	3	**29455**
29460	454703	1	**29460**
	464151	7	**29460**
	571247	1	**29460**
29485	612957	1	**29485**
29496	281408	5	**29496**
	283523	8	**29496**
	478025	1	**29496**
	573205	1	**29496**
29500	457045	53	**29500**
29501	111551	4	**29501**
	360000	27	**29501**
	483514	2	**29501**
	484909	20	**29501**
	507249	60	**29501**
	507934	13	**29501**
	557963	1	**29501**

29501	562363	1	**29501**
	575773	6	**29501**
29503	74546	1	**29503**
	462593	7	**29503**
	545199	1	**29503**
29506	447949	6	**29506**
29508	554950	82	**29508**
29517	99167	20	**29517**
	473729	21	**29517**
	481803	1	**29517**
29519	500714	3	**29519**
29521	176904	3	**29521**
	195834	30	**29521**
	574249	1	**29521**
	589627	8	**29521**
29524	461635	163	**29524**
	486814	1	**29524**
	549810	1	**29524**
29525	559381	1	**29525**
29526	467158	18	**29526**
	491370	2	**29526**
29527	73884	23	**29527**
	106635	119	**29527**
	261110	46	**29527**
	290283	15	**29527**
	447255	290	**29527**
29528	444507	1	**29528**
29534	172085	3	**29534**
29538	484520	5	**29538**
	608653	1	**29538**
29539	446937	74	**29539**
	485395	2	**29539**
	614159	1	**29539**
29541	462907	17	**29541**
	546265	1	**29541**
	624157	1	**29541**
29544	592286	5	**29544**
29589	172316	86	**29589**
	552425	2	**29589**
	557823	1	**29589**
	563440	2	**29589**
	616813	4	**29589**
29590	498129	1	**29590**
29595	163378	1	**29595**
29598	454143	81	**29598**
	509633	6	**29598**
29599	449354	13	**29599**
29629	68233	1	**29629**
	194498	3	**29629**
	476348	1	**29629**
	484563	17	**29629**
	501708	34	**29629**
	508334	11	**29629**
	624809	2	**29629**
29630	246735	1	**29630**

29630	307911	6	**29630**
	501282	1	**29630**
	554091	3	**29630**
	608427	16	**29630**
29636	458170	136	**29636**
	467471	1	**29636**
	476711	50	**29636**
	617016	7	**29636**
29637	151047	65	**29637**
	175434	1	**29637**
	191684	1	**29637**
	217842	3	**29637**
	499161	23	**29637**
	523069	1	**29637**
	555804	1	**29637**
	585974	4	**29637**
29638	196740	1	**29638**
	454146	1	**29638**
	485371	3	**29638**
	557535	5	**29638**
29642	473737	1	**29642**
	475535	118	**29642**
	478633	1	**29642**
	551073	8	**29642**
	584743	9	**29642**
	607048	1	**29642**
29643	465134	22	**29643**
	610641	21	**29643**
29647	17641	1	**29647**
	181145	162	**29647**
	317213	7	**29647**
	465237	77	**29647**
	467529	8	**29647**
	488885	31	**29647**
	491016	1	**29647**
	500227	1	**29647**
29648	160814	72	**29648**
	253189	1	**29648**
	478668	74	**29648**
	490214	1	**29648**
	521149	1	**29648**
	606547	1	**29648**
29654	42183	26	**29654**
	181039	32	**29654**
	473030	16	**29654**
	576652	32	**29654**
29655	486814	1	**29655**
29657	458445	96	**29657**
29658	145385	159	**29658**
	281487	29	**29658**
	287396	122	**29658**
	428205	2	**29658**
	480400	3	**29658**
	494024	1	**29658**
	497318	1	**29658**

29658	514937	1	**29658**
	586617	7	**29658**
	619170	1	**29658**
29660	184289	1	**29660**
	283850	1	**29660**
	483835	1	**29660**
	499348	1	**29660**
	608345	20	**29660**
29668	65808	75	**29668**
	237062	26	**29668**
	590879	4	**29668**
29679	477869	2	**29679**
29680	450674	1	**29680**
	493849	30	**29680**
29681	456079	67	**29681**
	598732	9	**29681**
29692	487218	2	**29692**
29694	84341	23	**29694**
	570188	1	**29694**
29695	301436	2	**29695**
29700	138493	1	**29700**
	153272	137	**29700**
	153723	305	**29700**
	166332	2	**29700**
	178376	11	**29700**
	202074	91	**29700**
	290903	25	**29700**
	298003	99	**29700**
	453437	3	**29700**
	456171	60	**29700**
	467480	12	**29700**
	476741	2	**29700**
	482894	1	**29700**
	489398	1	**29700**
	491856	58	**29700**
	502802	1	**29700**
	507599	60	**29700**
	545292	52	**29700**
	572320	2	**29700**
	624571	27	**29700**
29701	467692	3	**29701**
29702	458003	2	**29702**
29703	482720	3	**29703**
29704	191603	101	**29704**
	486647	7	**29704**
29705	335476	7	**29705**
29712	248879	2	**29712**
	466467	49	**29712**
	469001	63	**29712**
	480590	7	**29712**
	492479	9	**29712**
	510377	1	**29712**
	512238	1	**29712**
	546808	1	**29712**
	565618	10	**29712**

29712	597840	55	**29712**
29716	188319	20	**29716**
	493287	1	**29716**
29718	469713	1	**29718**
29733	142785	4	**29733**
29735	483974	1	**29735**
29741	585495	4	**29741**
29742	203118	8	**29742**
	247558	7	**29742**
	482608	3	**29742**
	550537	1	**29742**
	588140	14	**29742**
29743	66833	1	**29743**
	128483	7	**29743**
	133679	81	**29743**
	166332	1	**29743**
	205485	1	**29743**
	240368	6	**29743**
	298949	45	**29743**
29744	269641	34	**29744**
	519948	1	**29744**
29745	505110	1	**29745**
29747	120984	3	**29747**
29748	90002	1	**29748**
29749	64992	11	**29749**
	96712	106	**29749**
	96894	104	**29749**
	135382	15	**29749**
	237252	38	**29749**
	290875	66	**29749**
	443586	1	**29749**
	457973	1	**29749**
	464059	30	**29749**
	466100	134	**29749**
	496344	1	**29749**
	500403	135	**29749**
	561373	1	**29749**
	630383	1	**29749**
29750	157865	1	**29750**
	602599	2	**29750**
29751	521477	1	**29751**
	605420	1	**29751**
	609948	1	**29751**
29753	67312	1	**29753**
	546155	1	**29753**
	627536	1	**29753**
29754	246396	382	**29754**
	451421	194	**29754**
	482981	1	**29754**
	485428	109	**29754**
29756	295169	3	**29756**
	449613	2	**29756**
	463404	6	**29756**
	481965	1	**29756**
	520178	1	**29756**

29757	69106	189	**29757**
	447346	20	**29757**
	478799	2	**29757**
	508874	1	**29757**
	520797	1	**29757**
29774	522046	1	**29774**
29797	178376	52	**29797**
	463140	157	**29797**
29804	301436	47	**29804**
	310265	124	**29804**
	511623	1	**29804**
29807	468214	1	**29807**
	614749	1	**29807**
29809	553133	1	**29809**
29811	180939	18	**29811**
	464135	14	**29811**
29812	487450	7	**29812**
	628941	1	**29812**
29826	160060	64	**29826**
29830	547698	1	**29830**
29831	187955	103	**29831**
29847	487309	1	**29847**
29849	619045	18	**29849**
29851	89143	53	**29851**
	351210	1	**29851**
	471028	35	**29851**
	474466	6	**29851**
	618586	10	**29851**
29859	50674	10	**29859**
	196808	7	**29859**
	441437	8	**29859**
	459277	1	**29859**
	484960	5	**29859**
	569076	1	**29859**
	572561	1	**29859**
	573896	1	**29859**
	615116	8	**29859**
	617035	1	**29859**
29862	79633	5	**29862**
	153992	76	**29862**
	488979	109	**29862**
29864	306966	32	**29864**
29865	492634	4	**29865**
	499054	1	**29865**
	513301	17	**29865**
	526101	1	**29865**
	591745	5	**29865**
29866	184675	2	**29866**
	246415	37	**29866**
	474725	5	**29866**
	597216	21	**29866**
29867	62988	171	**29867**
	469902	30	**29867**
	498735	26	**29867**
29885	451348	8	**29885**

29885	462249	82	**29885**
29893	447317	28	**29893**
	543559	1	**29893**
	576229	1	**29893**
29910	564708	1	**29910**
29912	26576	3	**29912**
29913	26576	1	**29913**
29916	490776	18	**29916**
	551360	1	**29916**
29917	80503	3	**29917**
29921	548336	2	**29921**
29922	539967	1	**29922**
	543975	2	**29922**
29933	519370	1	**29933**
29935	264418	119	**29935**
29936	478961	154	**29936**
	485494	1	**29936**
29938	209896	47	**29938**
	543748	1	**29938**
29940	519234	77	**29940**
	579518	1	**29940**
29941	496935	1	**29941**
29944	160151	1	**29944**
	551936	1	**29944**
29947	492035	3	**29947**
29948	475122	1	**29948**
29952	88891	77	**29952**
	491016	2	**29952**
	577189	2	**29952**
30010	449297	2	**30010**
30014	65348	61	**30014**
30016	44443	9	**30016**
30024	27750	1	**30024**
30026	547110	1	**30026**
30034	203852	1	**30034**
30035	88227	5	**30035**
	184556	1	**30035**
	309307	1	**30035**
	484954	3	**30035**
	491392	2	**30035**
	520091	11	**30035**
	529323	1	**30035**
	557394	35	**30035**
	633193	1	**30035**
30036	55144	175	**30036**
	127645	1	**30036**
	181346	63	**30036**
	184534	32	**30036**
	203867	15	**30036**
	269653	1	**30036**
	276389	28	**30036**
	408225	56	**30036**
	484967	16	**30036**
	500614	8	**30036**
	501558	8	**30036**

30036	515966	1	**30036**
	526607	6	**30036**
	544436	78	**30036**
	550136	1	**30036**
	553995	95	**30036**
	567853	1	**30036**
30037	252968	61	**30037**
	492163	58	**30037**
	525414	4	**30037**
	562508	1	**30037**
	603213	1	**30037**
30039	597553	49	**30039**
30040	485741	42	**30040**
	513443	2	**30040**
	515688	10	**30040**
	602130	1	**30040**
30041	107225	60	**30041**
	178012	1	**30041**
	459671	1	**30041**
	493622	1	**30041**
	549595	1	**30041**
	578455	1	**30041**
30042	167495	104	**30042**
	495877	46	**30042**
	514817	1	**30042**
	632557	1	**30042**
30043	627926	2	**30043**
30053	74546	2	**30053**
	118189	9	**30053**
	126904	51	**30053**
30056	477993	72	**30056**
	513023	75	**30056**
	515382	2	**30056**
	523079	1	**30056**
30058	543179	1	**30058**
	556502	1	**30058**
	595095	2	**30058**
30059	631733	1	**30059**
30063	610981	5	**30063**
30066	595287	1	**30066**
30067	429988	1	**30067**
30070	178435	2	**30070**
	256829	1	**30070**
30078	278926	1	**30078**
30082	2858	24	**30082**
	500174	1	**30082**
	505025	2	**30082**
	518515	1	**30082**
	551396	1	**30082**
	554859	1	**30082**
	558844	1	**30082**
30087	170730	81	**30087**
	465887	40	**30087**
	488631	84	**30087**
	492476	95	**30087**

30087	511338	1	**30087**
	518975	1	**30087**
	525578	1	**30087**
	536509	1	**30087**
	542836	1	**30087**
	568628	58	**30087**
	609656	1	**30087**
30089	28180	185	**30089**
	611984	1	**30089**
30100	556377	11	**30100**
30103	510351	1	**30103**
30104	555029	1	**30104**
	569938	2	**30104**
30105	62429	31	**30105**
	103436	26	**30105**
	136177	82	**30105**
	153541	3	**30105**
	192637	1	**30105**
	264262	1	**30105**
	264622	48	**30105**
	265114	34	**30105**
	320276	1	**30105**
	459067	1	**30105**
	476589	1	**30105**
	476935	1	**30105**
	486541	2	**30105**
	488045	46	**30105**
	488933	2	**30105**
	505025	1	**30105**
	507624	1	**30105**
	508991	1	**30105**
	526581	1	**30105**
	540923	65	**30105**
	549403	1	**30105**
	559015	1	**30105**
	566925	1	**30105**
	571126	1	**30105**
	583238	1	**30105**
	584002	1	**30105**
	604171	1	**30105**
	612471	6	**30105**
30112	449526	39	**30112**
	549287	11	**30112**
	565754	1	**30112**
	601938	1	**30112**
	605302	1	**30112**
30117	8944	1	**30117**
	94587	72	**30117**
	589133	1	**30117**
	629247	1	**30117**
30118	346131	1	**30118**
30120	190539	20	**30120**
	247069	65	**30120**
30121	529844	1	**30121**
30149	521037	29	**30149**

30174	10606	1	**30174**
	566787	1	**30174**
30175	212	33	**30175**
	118547	1	**30175**
	193471	39	**30175**
	202082	1	**30175**
	243795	2	**30175**
	323472	1	**30175**
	561860	1	**30175**
	582923	1	**30175**
	611666	1	**30175**
	624127	12	**30175**
30177	399143	4	**30177**
30184	272950	120	**30184**
	595593	1	**30184**
30185	494390	1	**30185**
30189	71407	5	**30189**
	502254	1	**30189**
	503353	9	**30189**
	548790	1	**30189**
	570698	7	**30189**
	608244	1	**30189**
	614893	1	**30189**
	621604	7	**30189**
30190	494107	1	**30190**
	514197	16	**30190**
30191	155976	2	**30191**
	488771	4	**30191**
	549040	1	**30191**
30194	233293	1	**30194**
	523798	5	**30194**
30205	141659	14	**30205**
	581725	18	**30205**
30208	521790	1	**30208**
	527373	1	**30208**
	541611	1	**30208**
	576837	27	**30208**
	579544	35	**30208**
	599897	2	**30208**
30209	543518	1	**30209**
	621872	1	**30209**
30213	581787	1	**30213**
30214	184053	1	**30214**
	300907	1	**30214**
	499763	1	**30214**
	546816	1	**30214**
30217	56949	34	**30217**
	190881	1	**30217**
	242709	4	**30217**
	268202	76	**30217**
	292424	2	**30217**
	300575	3	**30217**
	447890	98	**30217**
	487328	1	**30217**
	519229	1	**30217**

30217	521750	1	**30217**
	550024	1	**30217**
	560041	1	**30217**
	580017	29	**30217**
	608316	9	**30217**
	627642	2	**30217**
30218	162862	2	**30218**
	509894	16	**30218**
30219	527272	1	**30219**
30220	630150	1	**30220**
30229	250200	1	**30229**
	605636	7	**30229**
30230	550692	1	**30230**
30252	539967	1	**30252**
	611915	3	**30252**
30253	203229	3	**30253**
	215167	41	**30253**
30281	613791	3	**30281**
30295	238636	10	**30295**
30298	573070	1	**30298**
30309	247537	7	**30309**
	546332	1	**30309**
	611469	33	**30309**
30310	84975	55	**30310**
	291743	99	**30310**
	301388	1	**30310**
30311	87142	1	**30311**
	172472	27	**30311**
	209908	2	**30311**
	232871	1	**30311**
	320051	1	**30311**
	519963	5	**30311**
	533407	42	**30311**
	568915	1	**30311**
	585501	3	**30311**
30312	457792	42	**30312**
	528317	1	**30312**
30313	575531	2	**30313**
	578046	10	**30313**
30314	105997	5	**30314**
	139382	100	**30314**
30315	534508	150	**30315**
	554295	2	**30315**
30319	140627	1	**30319**
	528767	62	**30319**
	563270	1	**30319**
	626644	1	**30319**
30320	62005	45	**30320**
	506527	102	**30320**
	546023	23	**30320**
30321	510129	1	**30321**
30326	242688	1	**30326**
30327	74804	57	**30327**
30328	563132	24	**30328**
30329	547678	3	**30329**

30336	83772	1	**30336**
	478113	1	**30336**
	541198	7	**30336**
	555063	79	**30336**
	560753	1	**30336**
	567126	5	**30336**
	581792	1	**30336**
	613452	3	**30336**
30337	547979	41	**30337**
	563487	3	**30337**
	600907	2	**30337**
30339	539759	3	**30339**
	542940	48	**30339**
	558582	1	**30339**
	567265	1	**30339**
	619763	1	**30339**
30340	539998	1	**30340**
	562394	1	**30340**
30341	63278	11	**30341**
	182326	26	**30341**
	587066	84	**30341**
	618349	6	**30341**
30344	34952	3	**30344**
	150026	12	**30344**
	601337	1	**30344**
	630357	2	**30344**
30345	511902	1	**30345**
30347	554048	1	**30347**
	559599	13	**30347**
30349	32351	4	**30349**
	85484	5	**30349**
	186547	1	**30349**
	274213	24	**30349**
	542440	1	**30349**
	543283	1	**30349**
	607127	5	**30349**
30350	575898	1	**30350**
30359	605821	23	**30359**
30360	37214	67	**30360**
	155634	91	**30360**
	157197	12	**30360**
	340886	1	**30360**
	400703	1	**30360**
	515188	1	**30360**
	544168	1	**30360**
	558974	1	**30360**
	585145	1	**30360**
30362	524559	2	**30362**
30364	64570	6	**30364**
	446845	3	**30364**
30365	595126	2	**30365**
30370	516067	1	**30370**
30373	23947	1	**30373**
	74505	1	**30373**
	173982	4	**30373**

30373	491067	1	**30373**
	524410	18	**30373**
	540148	1	**30373**
	577329	1	**30373**
	588951	3	**30373**
	598262	1	**30373**
30377	149552	3	**30377**
30380	52158	1	**30380**
	512420	1	**30380**
	528766	2	**30380**
	547261	1	**30380**
	547394	1	**30380**
	549163	1	**30380**
	556093	2	**30380**
	564861	57	**30380**
	575685	4	**30380**
30381	563409	2	**30381**
	580264	1	**30381**
	580730	19	**30381**
	622015	6	**30381**
	629434	1	**30381**
30397	285104	28	**30397**
	528199	17	**30397**
	542177	3	**30397**
30398	88227	1	**30398**
	562818	1	**30398**
30399	115268	1	**30399**
	490356	1	**30399**
30401	583077	5	**30401**
30402	581753	32	**30402**
	619310	7	**30402**
30413	165505	1	**30413**
	486194	2	**30413**
30414	78047	56	**30414**
30424	128439	114	**30424**
30427	203229	19	**30427**
30429	236468	1	**30429**
	479806	30	**30429**
	544977	2	**30429**
30431	625217	2	**30431**
30433	476032	52	**30433**
	497738	10	**30433**
	536509	9	**30433**
30434	559933	2	**30434**
30451	233640	9	**30451**
	450440	2	**30451**
30465	624098	2	**30465**
30471	160151	1	**30471**
	557674	1	**30471**
30494	607169	2	**30494**
30496	255616	12	**30496**
30498	560310	1	**30498**
	561299	19	**30498**
30499	413505	1	**30499**
	546955	1	**30499**

30501	594649	1	**30501**
30504	173282	1	**30504**
30505	221611	18	**30505**
	447041	44	**30505**
	495291	1	**30505**
	496703	47	**30505**
	503174	84	**30505**
	505209	1	**30505**
	506023	1	**30505**
	506576	53	**30505**
	517426	31	**30505**
	518546	1	**30505**
	522468	2	**30505**
	541833	81	**30505**
	542827	66	**30505**
	552031	1	**30505**
	555957	1	**30505**
	576543	1	**30505**
	581676	2	**30505**
	583579	1	**30505**
	598957	7	**30505**
	600784	2	**30505**
	616557	1	**30505**
30506	97773	1	**30506**
	504189	1	**30506**
	522468	1	**30506**
	524065	1	**30506**
	527932	2	**30506**
	549977	2	**30506**
	551776	4	**30506**
	618648	3	**30506**
30514	57714	27	**30514**
	500341	1	**30514**
	556486	6	**30514**
	571049	1	**30514**
	594296	1	**30514**
30515	151111	1	**30515**
	247119	20	**30515**
30516	556228	5	**30516**
	567060	1	**30516**
	633202	2	**30516**
30525	500915	1	**30525**
	520440	1	**30525**
	522926	1	**30525**
	557737	1	**30525**
30529	499506	1	**30529**
	509486	1	**30529**
	584448	1	**30529**
30538	306774	27	**30538**
	485382	29	**30538**
	489418	4	**30538**
	512878	1	**30538**
30541	528582	20	**30541**
30542	502624	17	**30542**
	558407	2	**30542**

30543	579662	7	**30543**
30547	438251	31	**30547**
	509656	1	**30547**
30551	262108	76	**30551**
	555357	31	**30551**
	558746	1	**30551**
	570974	6	**30551**
30552	555127	1	**30552**
	557499	1	**30552**
30558	582464	1	**30558**
30559	174129	86	**30559**
	527379	1	**30559**
	571487	3	**30559**
	615299	1	**30559**
30560	593898	1	**30560**
30568	621179	100	**30568**
	632623	1	**30568**
30570	508164	2	**30570**
	585132	10	**30570**
	629289	3	**30570**
30572	451080	78	**30572**
30585	589431	1	**30585**
	622012	2	**30585**
30587	188408	4	**30587**
	195595	28	**30587**
	541359	1	**30587**
	541539	1	**30587**
	541878	1	**30587**
	556896	1	**30587**
	570928	5	**30587**
	571568	1	**30587**
	571657	1	**30587**
	611991	1	**30587**
	612193	16	**30587**
30588	33529	130	**30588**
	488060	4	**30588**
	507851	1	**30588**
	529101	1	**30588**
	543532	1	**30588**
	625726	1	**30588**
30591	236466	1	**30591**
30596	460365	24	**30596**
30598	547110	1	**30598**
30603	27123	31	**30603**
	177766	9	**30603**
	279677	18	**30603**
	303489	68	**30603**
	465282	66	**30603**
	467798	2	**30603**
	529428	4	**30603**
	547117	2	**30603**
	583382	1	**30603**
	618372	1	**30603**
	633257	87	**30603**
30604	44001	1	**30604**

30608	150380	1	**30608**
	587780	1	**30608**
	622083	43	**30608**
30617	512754	3	**30617**
30619	200338	38	**30619**
30621	618152	1	**30621**
30623	546467	9	**30623**
	549833	1	**30623**
30624	618345	1	**30624**
30625	502584	3	**30625**
	523753	25	**30625**
	525899	1	**30625**
30626	8594	25	**30626**
	30482	1	**30626**
	198221	1	**30626**
	201798	96	**30626**
	265252	2	**30626**
	500228	3	**30626**
	501801	1	**30626**
	506315	1	**30626**
	517485	1	**30626**
	519026	1	**30626**
	529822	2	**30626**
	539515	1	**30626**
	539882	46	**30626**
	544291	1	**30626**
	551975	5	**30626**
	559012	66	**30626**
	568018	2	**30626**
	574264	2	**30626**
	627671	1	**30626**
30627	194208	42	**30627**
	503673	62	**30627**
	517430	1	**30627**
	526782	1	**30627**
30628	173569	66	**30628**
	215829	12	**30628**
30648	539841	1	**30648**
30653	33389	1	**30653**
	173511	31	**30653**
30654	86634	1	**30654**
	98330	78	**30654**
	266751	59	**30654**
	407898	21	**30654**
	510891	1	**30654**
	532913	2	**30654**
	539467	33	**30654**
	540037	13	**30654**
	541392	16	**30654**
	572676	1	**30654**
30655	80602	2	**30655**
	191377	70	**30655**
	290283	2	**30655**
	440812	1	**30655**
	543606	1	**30655**

30655	556016	6	**30655**
	575106	1	**30655**
30656	270069	7	**30656**
	519459	86	**30656**
	545021	1	**30656**
	545180	1	**30656**
	554053	1	**30656**
30668	190795	2	**30668**
30669	525514	1	**30669**
30670	31149	1	**30670**
	512145	8	**30670**
	546003	2	**30670**
	573581	42	**30670**
30671	509343	90	**30671**
30674	250200	1	**30674**
30684	581593	16	**30684**
	605752	1	**30684**
30685	281487	28	**30685**
	505651	51	**30685**
	510079	26	**30685**
	523843	1	**30685**
	524482	1	**30685**
	560770	1	**30685**
	561496	1	**30685**
	583176	9	**30685**
30686	172875	71	**30686**
	558453	1	**30686**
30700	560771	30	**30700**
30703	144963	55	**30703**
	267914	20	**30703**
	270069	7	**30703**
	497849	1	**30703**
	507584	10	**30703**
	511612	3	**30703**
	529694	1	**30703**
	541013	2	**30703**
	549262	2	**30703**
	581991	1	**30703**
	585111	31	**30703**
30704	83813	1	**30704**
	496050	1	**30704**
	502875	5	**30704**
	516127	1	**30704**
	541125	6	**30704**
30706	10902	79	**30706**
	524238	1	**30706**
	628667	25	**30706**
30707	464816	23	**30707**
30712	46947	5	**30712**
	237062	73	**30712**
	460365	55	**30712**
	593402	9	**30712**
30715	582540	1	**30715**
30720	562115	6	**30720**
30721	564567	2	**30721**

30739	118189	49	**30739**
	592149	1	**30739**
	614989	64	**30739**
30742	152869	1	**30742**
	516107	1	**30742**
	583643	8	**30742**
30746	549000	4	**30746**
	579691	19	**30746**
	610179	1	**30746**
30754	447031	53	**30754**
30758	514398	1	**30758**
	573883	2	**30758**
30759	473246	4	**30759**
	517301	1	**30759**
30764	123433	12	**30764**
	504474	1	**30764**
	515428	64	**30764**
	539479	1	**30764**
	542268	1	**30764**
30766	440	37	**30766**
30767	264418	13	**30767**
30772	219730	64	**30772**
	571891	3	**30772**
30780	519836	1	**30780**
30782	187408	53	**30782**
	213721	1	**30782**
	344873	14	**30782**
	436849	5	**30782**
	520696	1	**30782**
	585297	1	**30782**
30784	151528	1	**30784**
	289289	1	**30784**
	301436	60	**30784**
	467158	23	**30784**
	507183	1	**30784**
	572915	79	**30784**
30785	567191	1	**30785**
30794	580755	1	**30794**
	624582	1	**30794**
30810	468725	1	**30810**
30812	465530	85	**30812**
	580471	1	**30812**
	589979	24	**30812**
	595640	31	**30812**
30813	136736	45	**30813**
	187408	40	**30813**
	485412	6	**30813**
	520326	1	**30813**
	557022	1	**30813**
	589734	1	**30813**
30818	563400	1	**30818**
30819	294941	24	**30819**
	544069	1	**30819**
	557090	1	**30819**
	562659	3	**30819**

30819	585005	23	**30819**
	592549	3	**30819**
30820	548637	56	**30820**
30823	259294	63	**30823**
	527218	25	**30823**
	553433	2	**30823**
	564094	15	**30823**
30824	119484	1	**30824**
30825	170136	39	**30825**
	527729	1	**30825**
	553490	1	**30825**
30826	118644	18	**30826**
	458796	9	**30826**
	514096	1	**30826**
	514731	17	**30826**
	542842	27	**30826**
	556040	6	**30826**
	607104	1	**30826**
	614536	1	**30826**
30828	540240	1	**30828**
30835	616525	9	**30835**
30843	189360	3	**30843**
	455998	1	**30843**
	518513	1	**30843**
	524443	1	**30843**
	526724	2	**30843**
	542389	19	**30843**
	543613	1	**30843**
	556791	51	**30843**
	610446	1	**30843**
30844	462271	5	**30844**
	546190	1	**30844**
	585492	1	**30844**
30846	67950	37	**30846**
	68220	16	**30846**
	89088	1	**30846**
	124084	1	**30846**
	266676	1	**30846**
	507288	22	**30846**
	515428	69	**30846**
	539619	1	**30846**
	545357	1	**30846**
	551173	1	**30846**
	577602	5	**30846**
	579945	13	**30846**
	605223	1	**30846**
	605614	1	**30846**
30847	608427	3	**30847**
30850	515981	1	**30850**
30853	190539	11	**30853**
	293359	87	**30853**
	524669	9	**30853**
	526329	6	**30853**
	540161	3	**30853**
	541407	9	**30853**

30853	569172	3	**30853**
	583932	1	**30853**
	626927	8	**30853**
30861	451134	1	**30861**
	527189	1	**30861**
	541962	1	**30861**
	547869	13	**30861**
	581335	6	**30861**
30863	138619	34	**30863**
30867	517501	15	**30867**
30868	270312	6	**30868**
	515725	1	**30868**
	522214	4	**30868**
	557748	1	**30868**
30869	514793	3	**30869**
	517015	113	**30869**
	542120	2	**30869**
	549191	4	**30869**
	579917	1	**30869**
	592822	27	**30869**
30870	140935	1	**30870**
30876	615562	1	**30876**
30879	529322	2	**30879**
	544060	6	**30879**
30883	9999	15	**30883**
	525305	3	**30883**
30884	27407	82	**30884**
	99903	1	**30884**
	105736	1	**30884**
	156921	11	**30884**
	248993	29	**30884**
	292943	9	**30884**
	391814	12	**30884**
	450502	6	**30884**
	503837	69	**30884**
	545250	1	**30884**
	562923	1	**30884**
	575557	1	**30884**
	615977	1	**30884**
30888	207412	2	**30888**
	564607	56	**30888**
30890	541679	96	**30890**
	573045	2	**30890**
	575238	14	**30890**
	593934	10	**30890**
30891	238629	113	**30891**
	253737	52	**30891**
30892	30135	1	**30892**
30893	598272	1	**30893**
30895	570870	1	**30895**
30899	159668	1	**30899**
30904	581373	24	**30904**
30906	298524	1	**30906**
	568571	9	**30906**
30907	567355	1	**30907**

30913	89527	1	**30913**
	608339	1	**30913**
30918	63053	1	**30918**
	484361	1	**30918**
	500726	16	**30918**
	576631	1	**30918**
	586507	2	**30918**
30919	215167	33	**30919**
	221426	85	**30919**
	236689	20	**30919**
	255681	72	**30919**
	295169	175	**30919**
	314302	4	**30919**
	449983	31	**30919**
	461098	38	**30919**
	461676	1	**30919**
	488045	38	**30919**
	525994	2	**30919**
	539695	1	**30919**
	542984	35	**30919**
	543508	67	**30919**
	546643	18	**30919**
	549573	1	**30919**
	554562	20	**30919**
	557736	76	**30919**
	559231	1	**30919**
	559368	5	**30919**
	560120	1	**30919**
	566526	1	**30919**
	567211	59	**30919**
	568111	51	**30919**
	572086	2	**30919**
	572411	5	**30919**
	572893	1	**30919**
	575136	24	**30919**
	575522	1	**30919**
	576873	1	**30919**
	578160	8	**30919**
	578873	1	**30919**
	584318	4	**30919**
	595448	30	**30919**
	596965	1	**30919**
	603114	2	**30919**
	615771	2	**30919**
	618995	7	**30919**
	622811	1	**30919**
	632015	1	**30919**
30938	71407	59	**30938**
	177340	38	**30938**
	178988	1	**30938**
	320074	86	**30938**
	407673	55	**30938**
	465944	74	**30938**
	542970	115	**30938**
	573584	2	**30938**

30938	617503	6	**30938**
30939	555699	4	**30939**
30940	76675	32	**30940**
30942	121719	11	**30942**
	148940	5	**30942**
	280432	110	**30942**
	507249	29	**30942**
	526828	1	**30942**
30946	81340	1	**30946**
30949	14624	53	**30949**
	544834	38	**30949**
	551368	1	**30949**
30950	525514	5	**30950**
30955	567906	1	**30955**
30956	491284	13	**30956**
30957	526581	1	**30957**
	540249	1	**30957**
	625469	1	**30957**
30960	181000	51	**30960**
	319698	3	**30960**
30961	296505	51	**30961**
	543898	2	**30961**
30963	163290	116	**30963**
30987	156594	49	**30987**
	523260	1	**30987**
	554535	2	**30987**
	630528	1	**30987**
30989	41573	6	**30989**
	81751	2	**30989**
	211391	9	**30989**
	227470	36	**30989**
	335213	3	**30989**
	463136	1	**30989**
	512121	3	**30989**
	515664	1	**30989**
	518966	1	**30989**
	523364	1	**30989**
	539983	1	**30989**
	544194	41	**30989**
	552363	48	**30989**
	559047	43	**30989**
	569597	1	**30989**
	600391	1	**30989**
	631448	12	**30989**
31002	310326	1	**31002**
	566860	1	**31002**
	573644	1	**31002**
	581407	1	**31002**
	597956	4	**31002**
	617471	15	**31002**
31011	600764	1	**31011**
31013	573202	1	**31013**
	573203	1	**31013**
31016	21094	38	**31016**
	131638	5	**31016**

	305791	18	**31016**
	323472	1	**31016**
	429988	1	**31016**
	509640	1	**31016**
	515977	5	**31016**
	517596	1	**31016**
	517701	1	**31016**
	524001	23	**31016**
	524012	1	**31016**
	524483	7	**31016**
	524794	15	**31016**
	525215	1	**31016**
	528111	62	**31016**
	537917	2	**31016**
	540557	7	**31016**
	545818	29	**31016**
	551881	1	**31016**
	560564	80	**31016**
	564843	2	**31016**
	565536	2	**31016**
	568322	1	**31016**
	571153	1	**31016**
	576074	2	**31016**
	586163	2	**31016**
	596459	2	**31016**
	619291	2	**31016**
31017	512340	1	**31017**
31019	79772	8	**31019**
31022	319621	8	**31022**
	544432	44	**31022**
	550634	1	**31022**
	550643	1	**31022**
31023	154890	1	**31023**
31027	583735	1	**31027**
31032	593180	1	**31032**
31035	209028	2	**31035**
	559263	27	**31035**
	600391	1	**31035**
31038	413505	1	**31038**
	577335	1	**31038**
	580393	4	**31038**
	583055	1	**31038**
	605818	1	**31038**
31041	564851	1	**31041**
	572171	19	**31041**
31042	189276	6	**31042**
	620890	1	**31042**
31049	615043	20	**31049**
31053	557918	1	**31053**
31059	614421	26	**31059**
31060	347086	1	**31060**
31061	619641	1	**31061**
31062	456834	1	**31062**
31070	522606	2	**31070**
	527645	27	**31070**

31070	608592	1	**31070**
31076	148054	4	**31076**
	222356	1	**31076**
	528469	50	**31076**
	540424	6	**31076**
	543618	1	**31076**
	547116	110	**31076**
	547185	3	**31076**
	547608	57	**31076**
	550985	1	**31076**
	552730	1	**31076**
	552882	1	**31076**
	555935	1	**31076**
	562001	1	**31076**
	568659	14	**31076**
	572412	30	**31076**
	573437	1	**31076**
	578106	1	**31076**
	581143	1	**31076**
	583467	37	**31076**
	603076	1	**31076**
	609880	1	**31076**
	620576	4	**31076**
	625075	1	**31076**
31077	587709	35	**31077**
	628578	1	**31077**
31079	74018	32	**31079**
	454787	89	**31079**
	541914	10	**31079**
	550267	2	**31079**
31080	449852	1	**31080**
	523502	4	**31080**
	569917	1	**31080**
	592725	4	**31080**
	611991	1	**31080**
31081	251269	1	**31081**
	473566	27	**31081**
	554941	1	**31081**
	555641	1	**31081**
	583734	58	**31081**
	600951	1	**31081**
31108	25003	2	**31108**
	34952	1	**31108**
	559361	1	**31108**
	596839	4	**31108**
31109	14355	19	**31109**
	166608	3	**31109**
	190166	4	**31109**
	471511	39	**31109**
	481434	1	**31109**
	557671	28	**31109**
	573001	1	**31109**
	577547	2	**31109**
	602599	2	**31109**
	621027	1	**31109**

31109	624920	1	**31109**
31149	599077	1	**31149**
31162	515621	6	**31162**
	567806	4	**31162**
31163	608180	24	**31163**
31164	78184	32	**31164**
	132548	1	**31164**
31165	184728	7	**31165**
	386008	1	**31165**
	540854	2	**31165**
	545201	14	**31165**
	557977	7	**31165**
	603136	26	**31165**
	620812	1	**31165**
31167	463129	18	**31167**
31176	601001	2	**31176**
31177	190881	1	**31177**
	591942	19	**31177**
31178	280237	1	**31178**
31179	126764	31	**31179**
31182	69242	23	**31182**
	104485	1	**31182**
	486811	32	**31182**
	545292	26	**31182**
	551108	2	**31182**
	562144	1	**31182**
31183	41979	26	**31183**
	71690	82	**31183**
	201181	54	**31183**
	318649	1	**31183**
	547497	3	**31183**
	552104	1	**31183**
	554673	1	**31183**
	575022	16	**31183**
	575229	4	**31183**
	577574	10	**31183**
	580534	1	**31183**
	581023	1	**31183**
	587689	1	**31183**
	590985	2	**31183**
	592687	18	**31183**
	594421	1	**31183**
	605102	1	**31183**
	608553	1	**31183**
	624303	1	**31183**
	626472	1	**31183**
	628688	1	**31183**
31184	86617	1	**31184**
	198687	53	**31184**
	564603	37	**31184**
	578763	4	**31184**
	579118	4	**31184**
	585266	1	**31184**
	613372	2	**31184**
31185	164885	1	**31185**

31185	541903	1	**31185**
	543044	1	**31185**
	548185	2	**31185**
	552734	1	**31185**
	580675	1	**31185**
	585641	1	**31185**
	607187	1	**31185**
	620578	22	**31185**
	629512	1	**31185**
31186	186	51	**31186**
	150592	53	**31186**
	155634	32	**31186**
	187751	54	**31186**
	265173	11	**31186**
	270377	1	**31186**
	276939	6	**31186**
	289923	1	**31186**
	447890	22	**31186**
	526647	1	**31186**
	532565	62	**31186**
	545778	6	**31186**
	549005	3	**31186**
	549093	1	**31186**
	553148	2	**31186**
	555347	1	**31186**
	564532	3	**31186**
	566920	1	**31186**
	570412	48	**31186**
	570548	5	**31186**
	577829	31	**31186**
	578062	1	**31186**
	580661	10	**31186**
	582155	17	**31186**
	583585	1	**31186**
	589850	1	**31186**
	596051	3	**31186**
	602703	2	**31186**
	606052	1	**31186**
	609284	1	**31186**
	613074	4	**31186**
	613671	1	**31186**
	616240	3	**31186**
	622753	1	**31186**
	623550	7	**31186**
	627968	10	**31186**
	630135	1	**31186**
31187	542309	2	**31187**
	600337	19	**31187**
	608929	20	**31187**
31188	9469	19	**31188**
31189	562848	61	**31189**
	580498	11	**31189**
	582070	1	**31189**
31190	138644	4	**31190**
	547430	1	**31190**

31190	550494	58	**31190**
	572361	1	**31190**
	602316	1	**31190**
	608885	1	**31190**
31191	241701	5	**31191**
	524356	1	**31191**
	555926	1	**31191**
	557038	1	**31191**
	563236	2	**31191**
	574880	10	**31191**
	574960	3	**31191**
	576167	1	**31191**
	578707	32	**31191**
	583419	1	**31191**
	588862	1	**31191**
	590424	1	**31191**
	591812	3	**31191**
	592610	1	**31191**
	594976	1	**31191**
	598561	6	**31191**
	602444	1	**31191**
	614008	9	**31191**
	616343	1	**31191**
	618678	2	**31191**
31192	545115	2	**31192**
	564948	1	**31192**
	583858	67	**31192**
	587251	69	**31192**
	605900	8	**31192**
31199	609260	2	**31199**
	633219	2	**31199**
31200	447252	9	**31200**
	590820	1	**31200**
	632936	21	**31200**
31201	495216	1	**31201**
31202	62239	2	**31202**
31203	612441	18	**31203**
31205	572872	22	**31205**
	603875	2	**31205**
31208	310326	2	**31208**
	630241	1	**31208**
31209	590845	1	**31209**
31211	597524	1	**31211**
31216	180329	2	**31216**
	183406	25	**31216**
	259701	16	**31216**
	276628	8	**31216**
	455230	14	**31216**
	475166	14	**31216**
	547518	41	**31216**
	548249	9	**31216**
	551760	1	**31216**
	555701	8	**31216**
	558145	1	**31216**
	558782	1	**31216**

	559164	17	**31216**
	560093	1	**31216**
	562738	29	**31216**
	564486	1	**31216**
	564493	27	**31216**
	564557	1	**31216**
	565006	2	**31216**
	565213	1	**31216**
	566418	1	**31216**
	570262	1	**31216**
	571126	1	**31216**
	572553	1	**31216**
	574160	2	**31216**
	574359	25	**31216**
	576759	16	**31216**
	576818	1	**31216**
	578091	1	**31216**
	578991	1	**31216**
	579581	1	**31216**
	579828	4	**31216**
	579895	49	**31216**
	582619	7	**31216**
	582957	1	**31216**
	586034	40	**31216**
	592276	12	**31216**
	592931	14	**31216**
	592932	1	**31216**
	593650	20	**31216**
	600039	3	**31216**
	605547	24	**31216**
	606790	19	**31216**
	607422	57	**31216**
	610315	3	**31216**
	611275	1	**31216**
	617255	10	**31216**
	624687	1	**31216**
	629299	1	**31216**
	629612	10	**31216**
31217	240399	1	**31217**
	582360	2	**31217**
	615457	26	**31217**
31223	618907	6	**31223**
31226	587270	18	**31226**
	608700	8	**31226**
31239	568402	25	**31239**
	587867	1	**31239**
	624572	50	**31239**
31245	107356	3	**31245**
	572549	1	**31245**
	608427	3	**31245**
31246	593027	1	**31246**
31283	562766	22	**31283**
	584524	10	**31283**
31284	154356	1	**31284**
	179123	1	**31284**

31284	586449	15	**31284**
	618704	7	**31284**
31285	542603	14	**31285**
31286	572553	1	**31286**
	629299	1	**31286**
31288	125959	8	**31288**
	263550	9	**31288**
	455230	41	**31288**
31290	545600	1	**31290**
	561434	2	**31290**
	577520	1	**31290**
	583383	1	**31290**
	597216	32	**31290**
	601878	2	**31290**
31293	221426	39	**31293**
	632617	1	**31293**
31297	78785	30	**31297**
31303	467139	47	**31303**
31305	547678	1	**31305**
31307	137442	2	**31307**
	492824	1	**31307**
	582536	6	**31307**
	584415	1	**31307**
	590774	1	**31307**
31309	631427	1	**31309**
31313	516239	2	**31313**
	598595	1	**31313**
	619955	1	**31313**
	627797	24	**31313**
31315	162841	2	**31315**
	522501	1	**31315**
	567448	4	**31315**
	603389	66	**31315**
	612744	32	**31315**
31316	195813	8	**31316**
31318	575591	1	**31318**
31322	561308	5	**31322**
31342	614672	3	**31342**
31345	590490	2	**31345**
31364	572683	9	**31364**
	573598	4	**31364**
	617993	1	**31364**
	630469	4	**31364**
31370	8555	89	**31370**
	99104	2	**31370**
	155162	7	**31370**
	247268	17	**31370**
	493785	4	**31370**
	572912	4	**31370**
	583988	1	**31370**
	588943	3	**31370**
	597708	18	**31370**
	613598	2	**31370**
	620046	2	**31370**
	627367	1	**31370**

31370	629858	94	**31370**
31371	234657	53	**31371**
	432359	1	**31371**
	561244	4	**31371**
31373	583897	2	**31373**
	594066	1	**31373**
31374	523364	1	**31374**
	574949	18	**31374**
31377	41287	34	**31377**
	467722	40	**31377**
	512468	2	**31377**
	558746	2	**31377**
	559331	2	**31377**
	559932	9	**31377**
	570632	1	**31377**
	587897	1	**31377**
	588032	3	**31377**
	597035	27	**31377**
	597376	2	**31377**
	602544	1	**31377**
	607386	33	**31377**
31379	320590	127	**31379**
	571651	20	**31379**
	582378	1	**31379**
	596516	1	**31379**
31383	579026	4	**31383**
31388	578100	22	**31388**
	619271	1	**31388**
31390	97744	44	**31390**
	123697	40	**31390**
	181933	26	**31390**
	211034	6	**31390**
	346593	2	**31390**
	447832	53	**31390**
	517598	42	**31390**
	565575	10	**31390**
	577725	39	**31390**
	581173	1	**31390**
	582035	29	**31390**
	605764	5	**31390**
31395	55440	3	**31395**
	574308	2	**31395**
	604263	1	**31395**
31397	232115	6	**31397**
	549109	57	**31397**
	564208	1	**31397**
	622111	1	**31397**
31401	219745	21	**31401**
	348257	11	**31401**
	595540	16	**31401**
	596972	1	**31401**
	606735	1	**31401**
	630610	6	**31401**
31402	467798	2	**31402**
31409	579090	4	**31409**

31409	590088	1	**31409**
	626418	4	**31409**
31410	103436	55	**31410**
	217412	2	**31410**
	260208	1	**31410**
	455230	8	**31410**
	558782	1	**31410**
	586417	1	**31410**
	593098	1	**31410**
	609939	27	**31410**
31412	191377	14	**31412**
31415	607730	8	**31415**
31419	624595	15	**31419**
31441	608563	1	**31441**
31449	576424	21	**31449**
31451	44400	42	**31451**
	51253	5	**31451**
	62005	2	**31451**
	305791	3	**31451**
	540424	6	**31451**
31464	558693	1	**31464**
31473	631537	4	**31473**
31475	477623	3	**31475**
31476	571112	1	**31476**
31479	160414	3	**31479**
	563215	1	**31479**
31481	65160	21	**31481**
	573053	1	**31481**
	592037	5	**31481**
31490	464125	57	**31490**
	587833	18	**31490**
31503	606731	15	**31503**
31505	462926	55	**31505**
31506	280432	6	**31506**
31511	101381	23	**31511**
	344050	4	**31511**
	627648	1	**31511**
31518	188601	8	**31518**
	612193	18	**31518**
	632521	1	**31518**
31564	203229	3	**31564**
	250836	60	**31564**
31575	448387	9	**31575**
	574916	2	**31575**
	575574	1	**31575**
	582249	24	**31575**
	602300	45	**31575**
	608857	1	**31575**
	612775	1	**31575**
	620608	1	**31575**
31576	214938	1	**31576**
	557735	4	**31576**
	575581	1	**31576**
	581458	31	**31576**
	586863	1	**31576**

31576	594361	1	**31576**
31577	152032	3	**31577**
	162188	7	**31577**
	570700	1	**31577**
	573992	1	**31577**
	574031	2	**31577**
	584353	2	**31577**
	591241	1	**31577**
	595961	1	**31577**
	597369	1	**31577**
	599721	4	**31577**
	619781	1	**31577**
	620399	8	**31577**
	631231	14	**31577**
31578	56104	1	**31578**
	143029	9	**31578**
	190166	2	**31578**
	258469	6	**31578**
	544509	10	**31578**
	581790	1	**31578**
	592356	32	**31578**
	618459	6	**31578**
31579	219275	10	**31579**
	593307	3	**31579**
31584	586312	1	**31584**
	589193	1	**31584**
	621249	13	**31584**
31585	88964	1	**31585**
	117649	10	**31585**
	212852	28	**31585**
	454303	3	**31585**
	559984	1	**31585**
	562540	2	**31585**
	566150	1	**31585**
	574575	35	**31585**
	575520	1	**31585**
	592433	1	**31585**
	595788	2	**31585**
	599230	1	**31585**
	607851	8	**31585**
	608270	19	**31585**
	609691	18	**31585**
	611084	1	**31585**
31587	607365	1	**31587**
	628204	24	**31587**
31592	138721	17	**31592**
	526054	51	**31592**
	572761	55	**31592**
	573532	10	**31592**
	583032	49	**31592**
	602382	1	**31592**
31593	97429	1	**31593**
	570888	5	**31593**
	574006	1	**31593**
31596	225187	2	**31596**

31596	302185	9	**31596**
31597	626081	1	**31597**
31599	225467	21	**31599**
31601	516239	1	**31601**
	612011	33	**31601**
31610	613637	2	**31610**
31615	270231	16	**31615**
31639	576965	45	**31639**
31647	288162	1	**31647**
	591908	1	**31647**
	602786	8	**31647**
	620272	6	**31647**
	624860	1	**31647**
31654	214367	15	**31654**
	310326	1	**31654**
	476648	17	**31654**
	562839	7	**31654**
	575023	1	**31654**
	617171	1	**31654**
	619163	7	**31654**
31655	270440	21	**31655**
	584932	6	**31655**
	601711	1	**31655**
31661	622083	9	**31661**
31675	201341	68	**31675**
	588688	6	**31675**
31676	574237	1	**31676**
31679	165021	1	**31679**
	574193	1	**31679**
	589088	7	**31679**
	606903	1	**31679**
31680	213851	8	**31680**
	575176	1	**31680**
31682	283987	59	**31682**
31685	62005	18	**31685**
	169711	1	**31685**
	222391	1	**31685**
	564434	2	**31685**
	572089	1	**31685**
31686	66067	13	**31686**
	107236	39	**31686**
	147265	1	**31686**
	581174	3	**31686**
	596965	1	**31686**
	602316	1	**31686**
	610164	13	**31686**
31687	582503	1	**31687**
	585501	3	**31687**
31688	619029	3	**31688**
31691	90237	38	**31691**
	563624	2	**31691**
	567448	19	**31691**
	583896	1	**31691**
	584370	9	**31691**
	585783	12	**31691**

31691	595948	33	**31691**
	597364	1	**31691**
	607461	2	**31691**
	621472	2	**31691**
31692	545434	37	**31692**
31693	33239	1	**31693**
	34873	27	**31693**
	588900	1	**31693**
	590230	54	**31693**
	614911	15	**31693**
	616998	10	**31693**
	618958	2	**31693**
	626260	1	**31693**
	629689	1	**31693**
31695	579690	1	**31695**
	610633	2	**31695**
	612818	2	**31695**
	630407	4	**31695**
31698	291499	4	**31698**
31700	247069	9	**31700**
	484361	1	**31700**
31701	592286	3	**31701**
31713	623741	1	**31713**
31715	602828	1	**31715**
	622746	9	**31715**
31716	113749	5	**31716**
31717	627733	30	**31717**
	628557	2	**31717**
31718	588505	1	**31718**
	603261	25	**31718**
	605796	1	**31718**
	626693	1	**31718**
31720	261025	27	**31720**
	576862	1	**31720**
31721	595645	4	**31721**
	597958	14	**31721**
	599323	3	**31721**
	602348	1	**31721**
	604228	1	**31721**
	621980	7	**31721**
	622009	7	**31721**
	628295	1	**31721**
31734	615271	5	**31734**
	619613	12	**31734**
31735	139560	93	**31735**
	143397	1	**31735**
	492465	1	**31735**
	551173	19	**31735**
	575360	1	**31735**
	595628	2	**31735**
31745	123822	3	**31745**
31750	572052	1	**31750**
	576798	2	**31750**
	577238	6	**31750**
	584240	1	**31750**

31750	591338	17	**31750**
	606235	3	**31750**
	616484	1	**31750**
	622742	7	**31750**
31752	583652	16	**31752**
	596877	1	**31752**
31755	582285	31	**31755**
	583383	1	**31755**
	592376	13	**31755**
	603190	1	**31755**
	618855	1	**31755**
31756	90475	48	**31756**
	540424	4	**31756**
	587776	1	**31756**
	592977	4	**31756**
	630113	1	**31756**
31759	45166	10	**31759**
	621872	1	**31759**
31762	260786	7	**31762**
	595643	2	**31762**
	609255	2	**31762**
31765	166476	1	**31765**
	209068	13	**31765**
	449857	1	**31765**
	462271	2	**31765**
	575087	3	**31765**
	577486	1	**31765**
	586839	10	**31765**
	596965	1	**31765**
	597384	1	**31765**
	600357	1	**31765**
	612671	15	**31765**
	615316	1	**31765**
	617581	10	**31765**
	622473	1	**31765**
	627765	4	**31765**
31766	469460	3	**31766**
	471382	10	**31766**
	589790	45	**31766**
31767	34873	13	**31767**
	161979	2	**31767**
	164715	17	**31767**
	188476	31	**31767**
	275728	9	**31767**
	276069	23	**31767**
	309320	27	**31767**
	309459	1	**31767**
	449526	38	**31767**
	526581	1	**31767**
	581892	1	**31767**
	584524	19	**31767**
	588446	17	**31767**
	591878	12	**31767**
	595566	57	**31767**
	596969	33	**31767**

	603286	1	**31767**
	606363	17	**31767**
	608231	1	**31767**
	610790	26	**31767**
	611150	15	**31767**
	628851	1	**31767**
	628958	1	**31767**
31768	309895	14	**31768**
	583763	3	**31768**
	586638	3	**31768**
	586744	1	**31768**
	610275	1	**31768**
31769	565597	54	**31769**
	589891	2	**31769**
	592370	7	**31769**
31784	607760	24	**31784**
31785	629766	1	**31785**
31787	624643	4	**31787**
31788	160614	2	**31788**
	561686	5	**31788**
	574053	1	**31788**
	577555	1	**31788**
	595014	6	**31788**
	615146	5	**31788**
	619348	8	**31788**
	619653	1	**31788**
	620080	1	**31788**
	621014	17	**31788**
31789	317852	28	**31789**
	558294	2	**31789**
	606104	17	**31789**
	609752	6	**31789**
31794	104485	1	**31794**
31804	154435	1	**31804**
31806	195813	5	**31806**
31817	259532	124	**31817**
	276513	20	**31817**
	573505	7	**31817**
	607063	3	**31817**
	607247	1	**31817**
	622381	1	**31817**
31818	583490	3	**31818**
	621263	4	**31818**
	622955	1	**31818**
31819	603756	4	**31819**
31823	578608	1	**31823**
31824	188600	30	**31824**
31825	609808	1	**31825**
31826	417485	21	**31826**
	575171	1	**31826**
	575549	9	**31826**
	577732	1	**31826**
	583074	1	**31826**
	593329	1	**31826**
	609745	1	**31826**

31826	624825	1	**31826**
	627061	7	**31826**
	628042	1	**31826**
31828	625566	1	**31828**
	630015	30	**31828**
31829	50715	2	**31829**
	94086	13	**31829**
	189025	4	**31829**
	242423	15	**31829**
	309811	28	**31829**
	579544	35	**31829**
	580199	1	**31829**
	580723	45	**31829**
	582335	27	**31829**
	582738	12	**31829**
	588145	1	**31829**
	596409	18	**31829**
	600968	1	**31829**
	628062	1	**31829**
31836	210615	24	**31836**
	289923	1	**31836**
	511451	8	**31836**
	563559	30	**31836**
	573749	1	**31836**
	574241	10	**31836**
	576840	3	**31836**
	585588	15	**31836**
	597583	3	**31836**
	598775	3	**31836**
	606282	2	**31836**
	608300	22	**31836**
	611765	1	**31836**
	616000	2	**31836**
	616913	19	**31836**
	620458	2	**31836**
	630324	1	**31836**
	630609	1	**31836**
31844	52455	1	**31844**
	224604	1	**31844**
	575162	49	**31844**
	614758	19	**31844**
31848	89088	3	**31848**
	574292	5	**31848**
31849	480143	43	**31849**
31851	574188	10	**31851**
31852	610109	21	**31852**
31853	587580	25	**31853**
	625213	1	**31853**
31865	579095	1	**31865**
31866	153272	2	**31866**
	571308	6	**31866**
	620694	3	**31866**
31895	72059	6	**31895**
	290875	37	**31895**
	595171	3	**31895**

31895	610508	12	**31895**
	610925	1	**31895**
31896	569906	29	**31896**
	598481	21	**31896**
	615201	6	**31896**
31898	247119	12	**31898**
	630803	1	**31898**
31899	605605	3	**31899**
31905	589354	3	**31905**
	628723	1	**31905**
	630062	1	**31905**
31907	607760	24	**31907**
31913	69387	28	**31913**
	212012	24	**31913**
31914	577882	1	**31914**
	592134	1	**31914**
31919	617701	23	**31919**
31920	570336	4	**31920**
31926	604665	1	**31926**
31931	579936	9	**31931**
31940	448346	5	**31940**
	567101	2	**31940**
31941	179966	8	**31941**
	576589	9	**31941**
31947	579667	74	**31947**
31954	462344	14	**31954**
	586611	1	**31954**
31962	572766	19	**31962**
	575924	1	**31962**
	597151	1	**31962**
	622014	1	**31962**
31966	605497	2	**31966**
31967	324438	38	**31967**
31971	579909	1	**31971**
	599916	1	**31971**
	600013	6	**31971**
31975	604171	1	**31975**
	605929	10	**31975**
31976	605862	3	**31976**
31986	552025	24	**31986**
31987	158730	2	**31987**
	196779	1	**31987**
	215139	30	**31987**
	449526	36	**31987**
	568882	1	**31987**
	573675	22	**31987**
	578501	3	**31987**
	583331	2	**31987**
	588146	33	**31987**
	589935	1	**31987**
	591423	2	**31987**
	592886	71	**31987**
	609915	8	**31987**
	612178	2	**31987**
	620964	1	**31987**

31987	624639	1	**31987**
31988	575882	1	**31988**
	593049	1	**31988**
31989	195161	59	**31989**
	587435	32	**31989**
31991	182103	1	**31991**
	447453	20	**31991**
	611555	9	**31991**
31994	450165	27	**31994**
31995	578488	20	**31995**
	585583	1	**31995**
	588828	25	**31995**
	592087	10	**31995**
	604176	1	**31995**
	611904	1	**31995**
	611987	1	**31995**
32001	588148	18	**32001**
	608615	2	**32001**
32002	142365	5	**32002**
	165270	9	**32002**
	543898	3	**32002**
	579311	2	**32002**
	580264	1	**32002**
32003	330505	65	**32003**
	562929	48	**32003**
	611789	19	**32003**
32004	289479	49	**32004**
	604002	23	**32004**
32005	137442	2	**32005**
	561100	1	**32005**
	572645	2	**32005**
	577883	1	**32005**
	594370	1	**32005**
	600475	8	**32005**
	630706	1	**32005**
32007	222547	2	**32007**
32011	52609	4	**32011**
	583476	4	**32011**
32012	588482	1	**32012**
	620016	1	**32012**
32035	569594	47	**32035**
	571298	45	**32035**
	576543	1	**32035**
	582280	1	**32035**
	590344	1	**32035**
	598823	19	**32035**
	623075	3	**32035**
	630858	10	**32035**
32047	610933	6	**32047**
32053	566139	4	**32053**
	580004	1	**32053**
	596651	2	**32053**
	628543	24	**32053**
32056	193471	6	**32056**
	592861	4	**32056**

32056	617006	1	**32056**
	618077	1	**32056**
32057	160418	13	**32057**
	196779	1	**32057**
	303605	3	**32057**
	576497	14	**32057**
	582169	32	**32057**
	604781	6	**32057**
	607569	11	**32057**
	618461	4	**32057**
	620588	31	**32057**
	630131	28	**32057**
32060	542397	2	**32060**
32085	169403	62	**32085**
	516826	2	**32085**
	606008	3	**32085**
32086	36057	33	**32086**
	67950	19	**32086**
	152481	63	**32086**
	283870	3	**32086**
	453934	48	**32086**
	477623	1	**32086**
	570039	31	**32086**
	579936	1	**32086**
	592413	35	**32086**
	596043	22	**32086**
	601141	19	**32086**
32088	594844	2	**32088**
	597856	1	**32088**
32092	294442	21	**32092**
	573366	4	**32092**
	578201	23	**32092**
	582253	13	**32092**
	588522	1	**32092**
	589409	3	**32092**
	599286	1	**32092**
	609050	1	**32092**
	613244	2	**32092**
	631076	1	**32092**
32093	285898	14	**32093**
	368648	19	**32093**
	445941	1	**32093**
	571548	26	**32093**
	574447	20	**32093**
	576090	1	**32093**
	581311	1	**32093**
	581564	1	**32093**
	587593	4	**32093**
	595183	11	**32093**
	598304	2	**32093**
	607735	17	**32093**
	611272	1	**32093**
	627101	1	**32093**
	629566	6	**32093**
32108	575930	3	**32108**

32108	602148	2	**32108**
32109	620641	1	**32109**
32123	292264	16	**32123**
	587475	1	**32123**
	613275	4	**32123**
	631126	1	**32123**
32124	621826	1	**32124**
32127	586183	1	**32127**
32128	67668	21	**32128**
	89090	10	**32128**
	190539	15	**32128**
	472799	5	**32128**
	520356	1	**32128**
	579645	1	**32128**
	593154	7	**32128**
	595739	1	**32128**
	599405	1	**32128**
	611789	10	**32128**
32131	434755	5	**32131**
32132	618388	1	**32132**
32137	477993	62	**32137**
	605854	9	**32137**
32138	158676	49	**32138**
	160151	1	**32138**
	309937	1	**32138**
	318205	63	**32138**
	500403	31	**32138**
	538726	2	**32138**
	553148	1	**32138**
	572191	2	**32138**
	578539	2	**32138**
	579419	2	**32138**
	582109	1	**32138**
	582252	5	**32138**
	584337	1	**32138**
	590655	7	**32138**
	598135	5	**32138**
	602383	8	**32138**
	605375	1	**32138**
	606953	9	**32138**
	628861	1	**32138**
32142	29942	1	**32142**
	601334	1	**32142**
32150	235569	3	**32150**
32152	93950	19	**32152**
32157	193075	6	**32157**
32163	145618	19	**32163**
32167	624606	1	**32167**
32175	610387	2	**32175**
32176	203852	2	**32176**
32177	591509	3	**32177**
	610517	1	**32177**
	620629	1	**32177**
32181	567448	2	**32181**
	604172	1	**32181**

32181	604711	46	**32181**
	613578	2	**32181**
32183	26532	15	**32183**
	36422	1	**32183**
	200069	39	**32183**
	227470	10	**32183**
	280670	2	**32183**
	507288	1	**32183**
	513848	14	**32183**
	529495	6	**32183**
	547100	50	**32183**
	583831	2	**32183**
	585324	10	**32183**
	585530	1	**32183**
	586115	3	**32183**
	586247	7	**32183**
	587724	3	**32183**
	595850	14	**32183**
	597093	2	**32183**
	597315	1	**32183**
	598130	1	**32183**
	602964	4	**32183**
	605636	36	**32183**
	615634	2	**32183**
	620330	7	**32183**
	620866	36	**32183**
	622588	1	**32183**
	624774	1	**32183**
	631521	2	**32183**
32184	141311	25	**32184**
	267755	70	**32184**
	607729	1	**32184**
32186	66067	40	**32186**
	153215	1	**32186**
	459332	1	**32186**
	505025	1	**32186**
	547116	51	**32186**
	573896	2	**32186**
	576936	7	**32186**
	601876	14	**32186**
	607246	1	**32186**
	617760	1	**32186**
	620086	1	**32186**
	623113	1	**32186**
	626170	1	**32186**
	630441	1	**32186**
32187	240860	6	**32187**
	465944	3	**32187**
	585167	28	**32187**
	603215	13	**32187**
	603543	4	**32187**
	612348	1	**32187**
	615188	1	**32187**
	625395	1	**32187**
	632612	18	**32187**

32188	128522	1	**32188**
32199	447742	15	**32199**
32201	283987	17	**32201**
32208	607787	2	**32208**
	611316	1	**32208**
	619030	7	**32208**
32209	464353	31	**32209**
	584775	2	**32209**
32211	205254	17	**32211**
	603975	1	**32211**
	605261	1	**32211**
	608722	1	**32211**
	611476	1	**32211**
	620244	1	**32211**
	632675	1	**32211**
32218	625607	8	**32218**
32224	52177	1	**32224**
	165390	1	**32224**
	214938	3	**32224**
	602146	3	**32224**
	611446	1	**32224**
32225	5780	24	**32225**
32235	631929	1	**32235**
32236	581615	1	**32236**
32244	603097	1	**32244**
32245	468594	11	**32245**
32247	563658	1	**32247**
	611043	8	**32247**
	623358	1	**32247**
32248	176805	31	**32248**
32249	178896	1	**32249**
32250	487737	3	**32250**
	612509	34	**32250**
	625087	8	**32250**
32251	632436	9	**32251**
32252	145086	1	**32252**
	192946	3	**32252**
	360000	3	**32252**
	594732	40	**32252**
	605499	2	**32252**
	610059	1	**32252**
	612888	2	**32252**
	614863	2	**32252**
	618734	1	**32252**
	623358	1	**32252**
	623915	1	**32252**
	624874	11	**32252**
	625427	1	**32252**
	627237	1	**32252**
	627748	2	**32252**
	629647	7	**32252**
32254	217510	24	**32254**
32269	176480	5	**32269**
	616674	11	**32269**
	621428	1	**32269**

32269	629604	1	**32269**
	633600	7	**32269**
32270	414243	8	**32270**
32272	626688	20	**32272**
32273	325701	2	**32273**
32305	10030	82	**32305**
32308	163301	44	**32308**
32309	607207	26	**32309**
32311	284531	1	**32311**
32315	608015	1	**32315**
	623882	1	**32315**
32340	603008	1	**32340**
32341	283492	51	**32341**
	580774	8	**32341**
	610681	7	**32341**
	611795	14	**32341**
	615821	1	**32341**
	623060	1	**32341**
32345	128541	1	**32345**
	261110	29	**32345**
32349	623583	6	**32349**
32350	626062	2	**32350**
32364	624846	6	**32364**
32368	602735	20	**32368**
	619692	1	**32368**
	624737	17	**32368**
	627975	13	**32368**
	633546	18	**32368**
32369	88515	8	**32369**
	283523	6	**32369**
	464816	2	**32369**
	633640	1	**32369**
32392	625460	1	**32392**
32395	147988	9	**32395**
32397	625030	2	**32397**
32403	614375	15	**32403**
32450	629629	9	**32450**
32457	611915	25	**32457**
	620867	1	**32457**
	625386	2	**32457**
32508	620030	6	**32508**
32509	94152	7	**32509**
	560307	1	**32509**
	579544	1	**32509**
	616404	8	**32509**
	628256	4	**32509**
	628790	1	**32509**
	629643	5	**32509**
32517	267755	2	**32517**
32525	625809	1	**32525**
32526	611024	1	**32526**
32532	231800	8	**32532**
32540	624646	7	**32540**
32547	619121	1	**32547**
	629877	1	**32547**

32567	626514	1	**32567**
	631731	1	**32567**
32577	627594	2	**32577**
32578	625749	9	**32578**
	626864	7	**32578**
32580	626173	17	**32580**
	628566	1	**32580**
	632874	8	**32580**
32601	109191	2	**32601**
	618560	1	**32601**
	625929	4	**32601**
	626999	1	**32601**
32602	309877	7	**32602**
32603	626985	1	**32603**
	628562	1	**32603**
	631909	4	**32603**
32604	630137	1	**32604**
	630561	1	**32604**
32606	575691	2	**32606**
	621547	4	**32606**
	627475	9	**32606**
32611	488631	11	**32611**
	556797	1	**32611**
	617821	10	**32611**
	626046	1	**32611**
	627926	3	**32611**
32612	322184	5	**32612**
32613	628059	1	**32613**
32615	449526	8	**32615**
	576936	2	**32615**
	611322	4	**32615**
	612761	10	**32615**
	620934	1	**32615**
	626751	1	**32615**
32617	625246	1	**32617**
	628998	7	**32617**
32635	609299	1	**32635**
	617897	5	**32635**
32677	613502	1	**32677**
	623161	1	**32677**
32688	128439	8	**32688**
32698	614314	7	**32698**
32699	15357	2	**32699**
	630811	1	**32699**
32703	70649	1	**32703**
32709	623965	1	**32709**
32711	168683	2	**32711**
	618240	9	**32711**
	623784	1	**32711**
	623793	6	**32711**
	626568	2	**32711**
	627734	5	**32711**
	632076	2	**32711**
	632901	1	**32711**
32732	629984	2	**32732**

32732	632454	1	**32732**
32733	40878	3	**32733**
	475474	4	**32733**
32740	534508	2	**32740**
32745	633558	1	**32745**
32757	399143	8	**32757**
32802	524356	1	**32802**
	621462	1	**32802**
	625597	7	**32802**
32805	617624	4	**32805**
32817	620263	5	**32817**
	624119	11	**32817**
	625111	1	**32817**
	629753	1	**32817**
32915	70735	2	**32915**
32916	632464	1	**32916**
32918	279677	18	**32918**
	618308	1	**32918**
32925	290875	10	**32925**
32950	570171	1	**32950**
	618152	1	**32950**
	632188	1	**32950**
32954	632218	1	**32954**
32960	203229	3	**32960**
32965	621473	21	**32965**
32970	626957	1	**32970**
32983	621249	3	**32983**
33010	88964	1	**33010**
	217391	3	**33010**
	276389	5	**33010**
	283212	1	**33010**
	309550	10	**33010**
	622038	1	**33010**
	622220	1	**33010**
	624143	6	**33010**
	625483	2	**33010**
	625698	1	**33010**
	627000	2	**33010**
	627485	4	**33010**
	627514	5	**33010**
	627573	7	**33010**
	627696	4	**33010**
	627709	2	**33010**
	627727	5	**33010**
	628020	4	**33010**
	628194	5	**33010**
	628442	3	**33010**
	628508	1	**33010**
	628629	1	**33010**
	628634	6	**33010**
	628781	1	**33010**
	628855	6	**33010**
	628976	1	**33010**
	629064	1	**33010**
	629494	1	**33010**

	629591	1	**33010**
	629714	1	**33010**
	629847	1	**33010**
	629898	1	**33010**
	630011	2	**33010**
	630013	1	**33010**
	630069	3	**33010**
	630076	4	**33010**
	630129	3	**33010**
	630324	3	**33010**
	630423	6	**33010**
	630596	1	**33010**
	630611	3	**33010**
	630629	1	**33010**
	630658	1	**33010**
	630723	1	**33010**
	630742	2	**33010**
	630901	5	**33010**
	631804	1	**33010**
	631937	1	**33010**
	631938	3	**33010**
	632443	1	**33010**
	632448	1	**33010**
	632668	2	**33010**
	632751	1	**33010**
	632923	1	**33010**
	633098	2	**33010**
	633520	1	**33010**
	633650	1	**33010**
33017	602962	17	**33017**
	614975	1	**33017**
	632461	1	**33017**
33022	625804	1	**33022**
33076	467139	7	**33076**
33082	225277	12	**33082**
33083	621832	3	**33083**
	627108	9	**33083**
	627626	4	**33083**
	627731	1	**33083**
	627830	1	**33083**
	628155	1	**33083**
	628376	7	**33083**
	628631	1	**33083**
	628636	1	**33083**
	628774	4	**33083**
	629515	6	**33083**
	629758	2	**33083**
	630011	1	**33083**
	630076	1	**33083**
	630329	1	**33083**
	630333	4	**33083**
	630566	1	**33083**
	630596	1	**33083**
	630640	1	**33083**
	630742	2	**33083**

	630957	1	**33083**
	631859	2	**33083**
	631872	17	**33083**
	632289	4	**33083**
	632528	5	**33083**
	632533	2	**33083**
	632557	1	**33083**
	632751	1	**33083**
	632808	9	**33083**
	633520	1	**33083**
33086	621213	1	**33086**
33087	625262	1	**33087**
33088	633437	2	**33088**
33115	632290	2	**33115**
33131	632588	2	**33131**
33158	143966	3	**33158**
33166	627723	1	**33166**
33170	162611	2	**33170**
33172	526581	1	**33172**
33173	163752	1	**33173**
33188	463129	1	**33188**
33203	628236	1	**33203**
33204	628534	1	**33204**
33211	145618	2	**33211**
33229	145238	5	**33229**
33253	505271	2	**33253**
33260	133038	3	**33260**
	631422	4	**33260**
33268	586507	2	**33268**
33269	69649	4	**33269**
	487277	2	**33269**
	573282	4	**33269**
	626268	1	**33269**
	632198	1	**33269**
33297	581753	8	**33297**
	629374	1	**33297**
33331	630076	2	**33331**
	632751	1	**33331**
33347	439962	2	**33347**

DriverID
294514
479764
449538
465631
502991
112314
572251
580979
451882
162713
258991
317213
297697
304952
243577
259439
263101
265725
269914
309995
465962
530079
500910
593027
612311
567129
14304
220739
261025
303661
309811
314305
593806
632965
255005
27956
40652
140418
160517
163487
169733
172832
197298
202429
209798
212501
212563
217204
221605
226611
229138
235866

Row Labels	Count of DriverID
25199	2
25200	1
25201	2
25223	3
25224	1
25232	3
25235	2
25236	8
25241	1
25242	1
25244	1
25245	1
25250	3
25251	4
25252	1
25253	1
25254	50
25255	9
25256	2
25257	1
25258	1
25259	5
25260	1
25261	1
25262	31
25263	22
25264	1
25265	2
25268	1
25269	4
25271	1
25272	4
25275	6
25276	23
25277	3
25278	29
25279	2
25284	3
25285	2
25286	5
25287	23
25288	2
25295	1
25296	1
25299	1
25300	2
25301	1
25302	14
25303	8
25304	6
25305	2
25307	3

Row Labels	Count of DriverID
25199	2
25200	1
25201	2
25223	3
25224	1
25232	3
25235	2
25236	8
25241	1
25242	1
25244	1
25245	1
25250	3
25251	4
25252	1
25253	1
25254	50
25255	9
25256	2
25257	1
25258	1
25259	5
25260	1
25261	1
25262	31
25263	22
25264	1
25265	2
25268	1
25269	4
25271	1
25272	4
25275	6
25276	23
25277	3
25278	29
25279	2
25284	3
25285	2
25286	5
25287	23
25288	2
25295	1
25296	1
25299	1
25300	2
25301	1
25302	14
25303	8
25304	6
25305	2
25307	3

237931	25308	12	25308	12
237937	25309	5	25309	5
238304	25310	4	25310	4
241220	25311	8	25311	8
241306	25312	1	25312	1
243394	25313	1	25313	1
244040	25314	1	25314	1
244174	25316	16	25316	16
250365	25317	18	25317	18
252147	25318	2	25318	2
253189	25325	5	25325	5
258946	25327	1	25327	1
262329	25332	1	25332	1
268794	25338	1	25338	1
273535	25343	3	25343	3
280586	25345	1	25345	1
281493	25350	1	25350	1
281892	25351	1	25351	1
282648	25353	1	25353	1
289357	25356	1	25356	1
300821	25360	3	25360	3
302312	25362	2	25362	2
304858	25363	11	25363	11
306354	25364	15	25364	15
310635	25368	2	25368	2
319254	25369	3	25369	3
421321	25371	4	25371	4
437931	25378	2	25378	2
519970	25379	5	25379	5
526647	25389	1	25389	1
542982	25393	1	25393	1
576074	25396	1	25396	1
585297	25403	1	25403	1
198649	25407	5	25407	5
232080	25408	4	25408	4
245804	25409	5	25409	5
274172	25410	7	25410	7
280328	25413	1	25413	1
297670	25414	2	25414	2
407491	25415	2	25415	2
439838	25417	1	25417	1
463948	25418	1	25418	1
302321	25421	2	25421	2
352070	25424	9	25424	9
356611	25428	3	25428	3
441081	25430	1	25430	1
277977	25433	2	25433	2
303519	25434	9	25434	9
493081	25435	9	25435	9
594306	25437	1	25437	1
621950	25439	5	25439	5
544509	25444	1	25444	1
622072	25445	1	25445	1
44001	25446	1	25446	1
63779	25454	1	25454	1

99847	25469	1	25469	1
232171	25472	1	25472	1
249328	25475	1	25475	1
274116	25476	1	25476	1
275824	25482	12	25482	12
275829	25483	4	25483	4
279028	25485	4	25485	4
279939	25486	2	25486	2
280989	25487	2	25487	2
281453	25488	2	25488	2
281956	25489	8	25489	8
282786	25490	6	25490	6
282858	25491	3	25491	3
284941	25492	9	25492	9
287045	25495	1	25495	1
288806	25496	3	25496	3
289569	25499	2	25499	2
289814	25500	1	25500	1
313218	25501	7	25501	7
315291	25502	5	25502	5
402751	25503	6	25503	6
439700	25505	4	25505	4
442303	25506	8	25506	8
448571	25507	9	25507	9
451743	25508	3	25508	3
524112	25512	6	25512	6
533231	25513	2	25513	2
545129	25524	4	25524	4
597387	25531	4	25531	4
40878	25533	3	25533	3
59997	25540	1	25540	1
74736	25541	6	25541	6
239243	25544	2	25544	2
253718	25557	3	25557	3
276944	25558	2	25558	2
284058	25559	1	25559	1
288329	25572	10	25572	10
289882	25573	1	25573	1
290283	25574	8	25574	8
301334	25583	3	25583	3
304921	25584	1	25584	1
320480	25585	1	25585	1
322664	25587	1	25587	1
348023	25588	1	25588	1
460478	25590	1	25590	1
462802	25594	1	25594	1
473354	25595	7	25595	7
499387	25596	3	25596	3
551638	25598	5	25598	5
552686	25602	2	25602	2
627724	25609	3	25609	3
283345	25618	6	25618	6
216325	25619	3	25619	3
329268	25620	7	25620	7
271404	25621	2	25621	2

262877	25622	7	25622	7
461676	25623	1	25623	1
611649	25630	3	25630	3
628867	25632	3	25632	3
484604	25633	4	25633	4
191771	25635	2	25635	2
283523	25639	2	25639	2
447204	25644	2	25644	2
593436	25645	1	25645	1
191611	25646	2	25646	2
232283	25647	2	25647	2
280705	25650	3	25650	3
303571	25652	1	25652	1
305082	25654	6	25654	6
478936	25656	2	25656	2
12247	25657	1	25657	1
23160	25660	2	25660	2
94338	25668	2	25668	2
95289	25669	1	25669	1
211277	25670	4	25670	4
228663	25671	7	25671	7
232839	25672	5	25672	5
236649	25676	3	25676	3
253357	25681	1	25681	1
260872	25682	2	25682	2
272098	25684	1	25684	1
278134	25689	2	25689	2
280204	25694	1	25694	1
289080	25697	1	25697	1
295169	25703	1	25703	1
318545	25705	2	25705	2
353638	25707	1	25707	1
451929	25718	1	25718	1
472862	25723	2	25723	2
543873	25724	6	25724	6
544797	25727	1	25727	1
561304	25729	1	25729	1
624066	25799	3	25799	3
88593	25800	1	25800	1
251150	25801	1	25801	1
597423	25802	2	25802	2
41437	25813	1	25813	1
79653	25814	1	25814	1
98678	25828	1	25828	1
155731	25841	1	25841	1
240779	25849	1	25849	1
242092	25851	3	25851	3
245275	25869	12	25869	12
248055	25870	32	25870	32
255145	25872	1	25872	1
259505	25873	3	25873	3
260230	25881	2	25881	2
273044	25891	2	25891	2
274315	25892	4	25892	4
289864	25893	10	25893	10

292321	25894	13	25894	13
294442	25896	1	25896	1
297064	25897	1	25897	1
300517	25899	4	25899	4
303723	25900	1	25900	1
310339	25909	1	25909	1
348975	25911	2	25911	2
391814	25912	2	25912	2
450214	25913	2	25913	2
475889	25915	8	25915	8
477454	25916	14	25916	14
478496	25917	2	25917	2
523426	25918	2	25918	2
597553	25919	5	25919	5
603957	25921	16	25921	16
463205	25922	2	25922	2
598296	25923	4	25923	4
237311	25924	1	25924	1
283403	25936	1	25936	1
449746	25937	2	25937	2
342284	25938	2	25938	2
479002	25939	5	25939	5
286551	25940	1	25940	1
319922	25942	1	25942	1
464160	25943	2	25943	2
474685	25944	1	25944	1
515978	25945	1	25945	1
64804	25964	2	25964	2
103436	25966	2	25966	2
154206	25968	2	25968	2
176936	25969	3	25969	3
202513	25971	1	25971	1
215204	25976	2	25976	2
254083	25983	11	25983	11
255256	25985	1	25985	1
261914	25986	7	25986	7
264622	25987	35	25987	35
267449	25991	1	25991	1
271774	25997	1	25997	1
276993	25998	1	25998	1
281267	25999	4	25999	4
282672	26004	2	26004	2
288085	26005	3	26005	3
299179	26006	16	26006	16
356857	26007	5	26007	5
431148	26009	1	26009	1
455299	26012	3	26012	3
466315	26014	1	26014	1
540821	26015	1	26015	1
608230	26019	18	26019	18
259839	26020	23	26020	23
547430	26021	32	26021	32
451217	26030	1	26030	1
305241	26041	4	26041	4
267914	26042	1	26042	1

290059	26044	1	26044	1
292342	26049	1	26049	1
481559	26050	1	26050	1
206304	26051	1	26051	1
236108	26052	2	26052	2
244722	26055	1	26055	1
255796	26062	1	26062	1
271346	26063	2	26063	2
277232	26064	1	26064	1
280552	26067	1	26067	1
290634	26068	4	26068	4
292944	26072	3	26072	3
447206	26073	2	26073	2
449602	26077	1	26077	1
492111	26081	1	26081	1
547927	26084	6	26084	6
552129	26091	4	26091	4
28067	26095	1	26095	1
30482	26110	1	26110	1
270224	26112	3	26112	3
276710	26113	2	26113	2
281975	26114	2	26114	2
284857	26115	9	26115	9
287184	26117	1	26117	1
301383	26121	1	26121	1
276860	26127	2	26127	2
282007	26130	2	26130	2
282384	26132	6	26132	6
286663	26136	1	26136	1
297899	26140	1	26140	1
320919	26141	1	26141	1
274583	26142	4	26142	4
303700	26143	2	26143	2
60545	26144	1	26144	1
270338	26151	5	26151	5
528553	26155	1	26155	1
371	26160	6	26160	6
70297	26163	3	26163	3
115538	26166	1	26166	1
219658	26172	1	26172	1
266176	26176	9	26176	9
267396	26185	1	26185	1
273499	26187	1	26187	1
279940	26188	2	26188	2
285964	26189	4	26189	4
294129	26193	2	26193	2
302185	26195	1	26195	1
319160	26200	1	26200	1
134730	26202	6	26202	6
256477	26206	1	26206	1
281750	26207	1	26207	1
576474	26213	7	26213	7
584359	26250	9	26250	9
66123	26252	3	26252	3
251411	26253	1	26253	1

264262	26254	1	26254	1
271885	26262	1	26262	1
28236	26279	1	26279	1
131613	26282	2	26282	2
189940	26285	2	26285	2
264372	26287	1	26287	1
282913	26288	6	26288	6
298499	26289	8	26289	8
475361	26290	3	26290	3
503573	26293	10	26293	10
603038	26294	14	26294	14
578779	26298	1	26298	1
462236	26306	2	26306	2
163722	26307	3	26307	3
182225	26309	3	26309	3
238135	26318	3	26318	3
256361	26321	1	26321	1
279652	26324	2	26324	2
289478	26348	3	26348	3
289541	26350	2	26350	2
290191	26353	2	26353	2
301717	26354	2	26354	2
310650	26356	1	26356	1
333127	26358	1	26358	1
426918	26359	1	26359	1
433197	26365	19	26365	19
477301	26366	27	26366	27
495407	26367	4	26367	4
572200	26368	12	26368	12
151623	26371	1	26371	1
178157	26372	5	26372	5
190505	26373	5	26373	5
207884	26374	9	26374	9
220752	26375	11	26375	11
223716	26376	29	26376	29
287041	26377	7	26377	7
289405	26379	2	26379	2
289607	26386	1	26386	1
289620	26399	1	26399	1
290158	26401	17	26401	17
290204	26402	6	26402	6
318205	26403	3	26403	3
466678	26405	49	26405	49
475151	26412	1	26412	1
494696	26415	4	26415	4
584669	26419	1	26419	1
628627	26420	3	26420	3
249944	26422	19	26422	19
469098	26423	2	26423	2
105154	26424	5	26424	5
193639	26425	175	26425	175
324123	26427	4	26427	4
447235	26428	8	26428	8
459496	26429	3	26429	3
551646	26430	2	26430	2

301172	26431	9	26431	9
345417	26432	1	26432	1
94562	26437	1	26437	1
437556	26440	11	26440	11
626605	26441	4	26441	4
443707	26442	2	26442	2
524482	26447	4	26447	4
465458	26448	1	26448	1
586656	26452	3	26452	3
262318	26453	3	26453	3
265253	26455	1	26455	1
284521	26457	2	26457	2
586750	26458	1	26458	1
275266	26459	4	26459	4
290802	26460	4	26460	4
203996	26462	4	26462	4
205194	26463	5	26463	5
252341	26464	1	26464	1
267400	26465	1	26465	1
297064	26466	17	26466	17
301551	26467	2	26467	2
412033	26468	3	26468	3
448931	26469	5	26469	5
462382	26472	2	26472	2
469872	26473	4	26473	4
490526	26482	1	26482	1
93904	26483	4	26483	4
138036	26484	1	26484	1
220739	26485	2	26485	2
235112	26490	1	26490	1
246662	26495	1	26495	1
258382	26496	5	26496	5
262581	26511	14	26511	14
268202	26512	2	26512	2
278328	26513	5	26513	5
309523	26515	2	26515	2
350613	26517	1	26517	1
461042	26520	1	26520	1
498377	26525	2	26525	2
545578	26531	1	26531	1
616229	26542	2	26542	2
301659	26544	7	26544	7
574235	26545	2	26545	2
249328	26546	2	26546	2
418488	26547	1	26547	1
606182	26550	5	26550	5
171142	26556	2	26556	2
286188	26558	4	26558	4
447118	28526	1	28526	1
455984	28537	1	28537	1
141255	28547	1	28547	1
459107	28552	1	28552	1
98678	28553	1	28553	1
260197	28554	2	28554	2
263361	28556	1	28556	1

303040	28572	10	28572	10
308375	28573	1	28573	1
529495	28574	1	28574	1
68220	28577	1	28577	1
246652	28580	1	28580	1
443993	28582	5	28582	5
176454	28583	1	28583	1
303926	28584	3	28584	3
337947	28585	2	28585	2
426024	28586	1	28586	1
439985	28587	2	28587	2
142365	28588	10	28588	10
496537	28593	1	28593	1
590798	28594	1	28594	1
620471	28600	2	28600	2
296688	28601	3	28601	3
339009	28606	1	28606	1
340089	28607	1	28607	1
400345	28608	5	28608	5
451847	28611	3	28611	3
306069	28612	2	28612	2
400716	28613	1	28613	1
418120	28615	1	28615	1
437381	28617	1	28617	1
488383	28619	1	28619	1
597754	28629	7	28629	7
623030	28630	2	28630	2
525160	28632	3	28632	3
228198	28637	4	28637	4
497884	28638	1	28638	1
261557	28640	3	28640	3
295061	28645	2	28645	2
191544	28646	1	28646	1
543559	28648	8	28648	8
238124	28657	1	28657	1
441459	28661	3	28661	3
286635	28668	2	28668	2
303443	28669	1	28669	1
317749	28670	2	28670	2
419426	28671	2	28671	2
466162	28680	2	28680	2
475023	28681	2	28681	2
485178	28684	2	28684	2
489345	28685	1	28685	1
491895	28690	1	28690	1
115049	28692	1	28692	1
319052	28695	1	28695	1
447890	28696	1	28696	1
307389	28705	1	28705	1
410657	28712	1	28712	1
528221	28713	2	28713	2
147265	28716	3	28716	3
300986	28721	1	28721	1
303141	28725	3	28725	3
318632	28727	3	28727	3

352045	28730	3	28730	3
440663	28731	1	28731	1
450741	28732	7	28732	7
462068	28735	2	28735	2
477919	28736	3	28736	3
443134	28747	1	28747	1
454265	28750	4	28750	4
458622	28753	1	28753	1
462881	28754	1	28754	1
463440	28763	1	28763	1
477713	28770	2	28770	2
493247	28771	4	28771	4
567201	28775	1	28775	1
575899	28784	3	28784	3
65252	28786	1	28786	1
140423	28788	1	28788	1
291762	28790	1	28790	1
324002	28794	1	28794	1
442451	28796	6	28796	6
527921	28797	1	28797	1
441334	28798	1	28798	1
73961	28803	1	28803	1
263577	28806	1	28806	1
463550	28807	6	28807	6
433485	28815	1	28815	1
435193	28816	4	28816	4
223120	28817	5	28817	5
449214	28821	1	28821	1
57431	28822	3	28822	3
228802	28832	1	28832	1
272227	29286	3	29286	3
274461	29290	3	29290	3
276476	29291	11	29291	11
282818	29292	2	29292	2
288947	29293	6	29293	6
308772	29294	2	29294	2
319805	29300	1	29300	1
362954	29308	2	29308	2
477491	29314	1	29314	1
608374	29315	1	29315	1
181697	29323	1	29323	1
231333	29324	1	29324	1
231740	29355	1	29355	1
540318	29363	1	29363	1
388590	29364	1	29364	1
443413	29367	6	29367	6
568799	29369	1	29369	1
581662	29372	2	29372	2
305172	29381	4	29381	4
491895	29382	2	29382	2
253823	29406	13	29406	13
317856	29407	5	29407	5
168191	29408	18	29408	18
502060	29409	16	29409	16
2352	29414	3	29414	3

30142	29415	16	29415	16
155364	29416	13	29416	13
320014	29419	1	29419	1
345062	29439	6	29439	6
407120	29442	2	29442	2
434569	29444	1	29444	1
450089	29448	4	29448	4
201860	29450	1	29450	1
241544	29453	3	29453	3
284521	29455	2	29455	2
320051	29460	3	29460	3
439545	29485	1	29485	1
462647	29496	4	29496	4
140935	29500	1	29500	1
308112	29501	9	29501	9
423421	29503	3	29503	3
224594	29506	1	29506	1
266676	29508	1	29508	1
284298	29517	3	29517	3
316886	29519	1	29519	1
415751	29521	4	29521	4
442036	29524	3	29524	3
451893	29525	1	29525	1
478143	29526	2	29526	2
512926	29527	5	29527	5
446237	29528	1	29528	1
450899	29534	1	29534	1
544858	29538	2	29538	2
571754	29539	3	29539	3
101820	29541	3	29541	3
176694	29544	1	29544	1
421855	29589	5	29589	5
254047	29590	1	29590	1
284035	29595	1	29595	1
316761	29598	2	29598	2
347493	29599	1	29599	1
454719	29629	7	29629	7
458796	29630	5	29630	5
524243	29636	4	29636	4
165788	29637	8	29637	8
181171	29638	4	29638	4
353066	29642	6	29642	6
520727	29643	2	29643	2
560753	29647	8	29647	8
37121	29648	6	29648	6
211604	29654	4	29654	4
288965	29655	1	29655	1
294922	29657	1	29657	1
297707	29658	10	29658	10
449303	29660	5	29660	5
221426	29668	3	29668	3
314490	29679	1	29679	1
585542	29680	2	29680	2
601571	29681	2	29681	2
274403	29692	1	29692	1

289420	29694	2	29694	2
441793	29695	1	29695	1
443611	29700	20	29700	20
468195	29701	1	29701	1
469533	29702	1	29702	1
549109	29703	1	29703	1
621668	29704	2	29704	2
86264	29705	1	29705	1
278863	29712	10	29712	10
288886	29716	2	29716	2
293021	29718	1	29718	1
303160	29733	1	29733	1
319417	29735	1	29735	1
371845	29741	1	29741	1
463597	29742	5	29742	5
560762	29743	7	29743	7
56833	29744	2	29744	2
290750	29745	1	29745	1
422592	29747	1	29747	1
110798	29748	1	29748	1
292571	29749	14	29749	14
428612	29750	2	29750	2
434398	29751	3	29751	3
447916	29753	3	29753	3
562308	29754	4	29754	4
461174	29756	5	29756	5
551750	29757	5	29757	5
29253	29774	1	29774	1
426284	29797	2	29797	2
445737	29804	3	29804	3
452808	29807	2	29807	2
153403	29809	1	29809	1
243194	29811	2	29811	2
283391	29812	2	29812	2
561608	29826	1	29826	1
152254	29830	1	29830	1
319040	29831	1	29831	1
381937	29847	1	29847	1
510848	29849	1	29849	1
169466	29851	5	29851	5
335938	29859	10	29859	10
441378	29862	3	29862	3
465003	29864	1	29864	1
605929	29865	5	29865	5
625821	29866	4	29866	4
321270	29867	3	29867	3
459293	29885	2	29885	2
300148	29893	3	29893	3
304225	29910	1	29910	1
436806	29912	1	29912	1
247617	29913	1	29913	1
596614	29916	2	29916	2
487506	29917	1	29917	1
68827	29921	1	29921	1
89088	29922	2	29922	2

299010	29933	1	29933	1
363852	29935	1	29935	1
426983	29936	2	29936	2
441530	29938	2	29938	2
446072	29940	2	29940	2
572499	29941	1	29941	1
593049	29944	2	29944	2
596179	29947	1	29947	1
300489	29948	1	29948	1
68233	29952	3	29952	3
69106	30010	1	30010	1
97596	30014	1	30014	1
162829	30016	1	30016	1
416565	30024	1	30024	1
438554	30026	1	30026	1
512317	30034	1	30034	1
617961	30035	9	30035	9
302978	30036	17	30036	17
442667	30037	5	30037	5
579330	30039	1	30039	1
569597	30040	4	30040	4
587651	30041	6	30041	6
100705	30042	4	30042	4
583042	30043	1	30043	1
571030	30053	3	30053	3
21094	30056	4	30056	4
170926	30058	3	30058	3
190744	30059	1	30059	1
303045	30063	1	30063	1
309993	30066	1	30066	1
322873	30067	1	30067	1
441437	30070	2	30070	2
527266	30078	1	30078	1
255295	30082	7	30082	7
336876	30087	11	30087	11
529578	30089	2	30089	2
215648	30100	1	30100	1
303421	30103	1	30103	1
314574	30104	2	30104	2
457869	30105	28	30105	28
468252	30112	5	30112	5
319425	30117	4	30117	4
529232	30118	1	30118	1
141850	30120	2	30120	2
450957	30121	1	30121	1
629353	30149	1	30149	1
217703	30174	2	30174	2
309490	30175	10	30175	10
447237	30177	1	30177	1
448894	30184	2	30184	2
576564	30185	1	30185	1
616687	30189	8	30189	8
305973	30190	2	30190	2
363069	30191	3	30191	3
551554	30194	2	30194	2

89431	30205	2	30205	2
131999	30208	6	30208	6
287622	30209	2	30209	2
302847	30213	1	30213	1
342845	30214	4	30214	4
413505	30217	15	30217	15
539814	30218	2	30218	2
264183	30219	1	30219	1
475474	30220	1	30220	1
77415	30229	2	30229	2
253699	30230	1	30230	1
295969	30252	2	30252	2
305083	30253	2	30253	2
438188	30281	1	30281	1
577635	30295	1	30295	1
609229	30298	1	30298	1
438054	30309	3	30309	3
71265	30310	3	30310	3
200642	30311	9	30311	9
308343	30312	2	30312	2
69089	30313	2	30313	2
450733	30314	2	30314	2
464971	30315	2	30315	2
449472	30319	4	30319	4
453375	30320	3	30320	3
458285	30321	1	30321	1
509116	30326	1	30326	1
288913	30327	1	30327	1
447534	30328	1	30328	1
11402	30329	1	30329	1
323709	30336	8	30336	8
224893	30337	3	30337	3
453547	30339	5	30339	5
196844	30340	2	30340	2
291199	30341	4	30341	4
307056	30344	4	30344	4
448797	30345	1	30345	1
469676	30347	2	30347	2
272220	30349	7	30349	7
335213	30350	1	30350	1
590276	30359	1	30359	1
394255	30360	9	30360	9
282202	30362	1	30362	1
291562	30364	2	30364	2
293920	30365	1	30365	1
308236	30370	1	30370	1
414129	30373	9	30373	9
596589	30377	1	30377	1
162510	30380	9	30380	9
546643	30381	5	30381	5
151655	30397	3	30397	3
462926	30398	2	30398	2
578344	30399	2	30399	2
217204	30401	1	30401	1
450899	30402	2	30402	2

285785	30413	2	30413	2
109745	30414	1	30414	1
241692	30424	1	30424	1
302999	30427	1	30427	1
335304	30429	3	30429	3
180882	30431	1	30431	1
298203	30433	3	30433	3
309459	30434	1	30434	1
351647	30451	2	30451	2
436809	30465	1	30465	1
444932	30471	2	30471	2
456813	30494	1	30494	1
193726	30496	1	30496	1
459779	30498	2	30498	2
486541	30499	2	30499	2
494687	30501	1	30501	1
542265	30504	1	30504	1
160151	30505	21	30505	21
284724	30506	8	30506	8
298658	30514	5	30514	5
474685	30515	2	30515	2
363294	30516	3	30516	3
445588	30525	4	30525	4
464378	30529	3	30529	3
369165	30538	4	30538	4
477873	30541	1	30541	1
601001	30542	2	30542	2
449266	30543	1	30543	1
65020	30547	2	30547	2
294941	30551	4	30551	4
627377	30552	2	30552	2
28116	30558	1	30558	1
510116	30559	4	30559	4
123774	30560	1	30560	1
368476	30568	2	30568	2
68137	30570	3	30570	3
335476	30572	1	30572	1
399469	30585	2	30585	2
439744	30587	11	30587	11
449595	30588	6	30588	6
553202	30591	1	30591	1
308745	30596	1	30596	1
319881	30598	1	30598	1
305879	30603	11	30603	11
449181	30604	1	30604	1
554911	30608	3	30608	3
455674	30617	1	30617	1
614749	30619	1	30619	1
140423	30621	1	30621	1
577821	30623	2	30623	2
448948	30624	1	30624	1
588951	30625	3	30625	3
458966	30626	19	30626	19
173511	30627	4	30627	4
599625	30628	2	30628	2

75658	30648	1	30648	1
470441	30653	2	30653	2
584027	30654	10	30654	10
1617	30655	7	30655	7
216008	30656	5	30656	5
273239	30668	1	30668	1
298875	30669	1	30669	1
303455	30670	4	30670	4
428683	30671	1	30671	1
429058	30674	1	30674	1
440812	30684	2	30684	2
447887	30685	8	30685	8
466079	30686	2	30686	2
472062	30700	1	30700	1
569562	30703	11	30703	11
54127	30704	5	30704	5
62680	30706	3	30706	3
119781	30707	1	30707	1
149372	30712	4	30712	4
172901	30715	1	30715	1
241939	30720	1	30720	1
247430	30721	1	30721	1
281832	30739	3	30739	3
283049	30742	3	30742	3
289289	30746	3	30746	3
290463	30754	1	30754	1
299996	30758	2	30758	2
301730	30759	2	30759	2
305791	30764	5	30764	5
306181	30766	1	30766	1
307092	30767	1	30767	1
309632	30772	2	30772	2
310770	30780	1	30780	1
317771	30782	6	30782	6
317933	30784	6	30784	6
339477	30785	1	30785	1
361050	30794	2	30794	2
419752	30810	1	30810	1
440237	30812	4	30812	4
440841	30813	6	30813	6
446144	30818	1	30818	1
455942	30819	6	30819	6
456288	30820	1	30820	1
465197	30823	4	30823	4
501000	30824	1	30824	1
523649	30825	3	30825	3
552371	30826	8	30826	8
483001	30828	1	30828	1
205540	30835	1	30835	1
447860	30843	9	30843	9
447918	30844	3	30844	3
192637	30846	14	30846	14
308881	30847	1	30847	1
306511	30850	1	30850	1
547876	30853	9	30853	9

255432	30861	5	30861	5
288449	30863	1	30863	1
302528	30867	1	30867	1
450023	30868	4	30868	4
38641	30869	6	30869	6
261497	30870	1	30870	1
269099	30876	1	30876	1
286246	30879	2	30879	2
316119	30883	2	30883	2
317736	30884	13	30884	13
343948	30888	2	30888	2
440034	30890	4	30890	4
496723	30891	2	30891	2
586786	30892	1	30892	1
266240	30893	1	30893	1
283055	30895	1	30895	1
293150	30899	1	30899	1
296919	30904	1	30904	1
297840	30906	2	30906	2
304135	30907	1	30907	1
306966	30913	2	30913	2
309928	30918	5	30918	5
317611	30919	40	30919	40
319870	30938	9	30938	9
331215	30939	1	30939	1
388823	30940	1	30940	1
526849	30942	5	30942	5
456142	30946	1	30946	1
128439	30949	3	30949	3
455909	30950	1	30950	1
483566	30955	1	30955	1
569917	30956	1	30956	1
578095	30957	3	30957	3
464623	30960	2	30960	2
356944	30961	2	30961	2
288745	30963	1	30963	1
448195	30987	4	30987	4
186298	30989	17	30989	17
602207	31002	6	31002	6
366714	31011	1	31011	1
376065	31013	2	31013	2
258148	31016	28	31016	28
291804	31017	1	31017	1
309037	31019	1	31019	1
323412	31022	4	31022	4
429452	31023	1	31023	1
460365	31027	1	31027	1
471330	31032	1	31032	1
503464	31035	3	31035	3
37214	31038	5	31038	5
111551	31041	2	31041	2
118695	31042	2	31042	2
148198	31049	1	31049	1
187024	31053	1	31053	1
266676	31059	1	31059	1

297168	31060	1	31060	1
303880	31061	1	31061	1
323980	31062	1	31062	1
348189	31070	3	31070	3
453143	31076	23	31076	23
457479	31077	2	31077	2
459540	31079	4	31079	4
503464	31080	5	31080	5
300106	31081	6	31081	6
586665	31108	4	31108	4
289451	31109	11	31109	11
473146	31149	1	31149	1
3236	31162	2	31162	2
58460	31163	1	31163	1
431162	31164	2	31164	2
552070	31165	7	31165	7
613633	31167	1	31167	1
122934	31176	1	31176	1
152481	31177	2	31177	2
155238	31178	1	31178	1
249089	31179	1	31179	1
309212	31182	6	31182	6
315463	31183	21	31183	21
317136	31184	7	31184	7
319588	31185	10	31185	10
319934	31186	37	31186	37
362862	31187	3	31187	3
439641	31188	1	31188	1
458699	31189	3	31189	3
547469	31190	6	31190	6
587441	31191	20	31191	20
607715	31192	5	31192	5
628824	31199	2	31199	2
40063	31200	3	31200	3
437587	31201	1	31201	1
454231	31202	1	31202	1
464758	31203	1	31203	1
514361	31205	2	31205	2
627402	31208	2	31208	2
451080	31209	1	31209	1
446245	31211	1	31211	1
419680	31216	50	31216	50
561171	31217	3	31217	3
182671	31223	1	31223	1
318722	31226	2	31226	2
56104	31239	3	31239	3
91742	31245	3	31245	3
325566	31246	1	31246	1
524992	31283	2	31283	2
593989	31284	4	31284	4
418305	31285	1	31285	1
26576	31286	2	31286	2
384647	31288	3	31288	3
447224	31290	6	31290	6
324617	31293	2	31293	2

299396	31297	1	31297	1
440244	31303	1	31303	1
582796	31305	1	31305	1
470292	31307	5	31307	5
540981	31309	1	31309	1
240177	31313	4	31313	4
423425	31315	5	31315	5
267750	31316	1	31316	1
440549	31318	1	31318	1
547013	31322	1	31322	1
571651	31342	1	31342	1
30135	31345	1	31345	1
449456	31364	4	31364	4
112798	31370	13	31370	13
172316	31371	3	31371	3
280792	31373	2	31373	2
296159	31374	2	31374	2
317622	31377	13	31377	13
432467	31379	4	31379	4
444680	31383	1	31383	1
504349	31388	2	31388	2
566134	31390	12	31390	12
583424	31395	3	31395	3
608240	31397	4	31397	4
182326	31401	6	31401	6
64939	31402	1	31402	1
334201	31409	3	31409	3
356331	31410	8	31410	8
472694	31412	1	31412	1
492234	31415	1	31415	1
559236	31419	1	31419	1
630647	31441	1	31441	1
86617	31449	1	31449	1
109428	31451	5	31451	5
196978	31464	1	31464	1
209067	31473	1	31473	1
258256	31475	1	31475	1
263214	31476	1	31476	1
272172	31479	2	31479	2
289000	31481	3	31481	3
296078	31490	2	31490	2
297510	31503	1	31503	1
301029	31505	1	31505	1
303635	31506	1	31506	1
306774	31511	3	31511	3
310429	31518	3	31518	3
310665	31564	2	31564	2
345489	31575	8	31575	8
350040	31576	6	31576	6
363613	31577	13	31577	13
402265	31578	8	31578	8
414469	31579	2	31579	2
447797	31584	3	31584	3
448195	31585	16	31585	16
459293	31587	2	31587	2

463218	31592	6	31592	6
488837	31593	3	31593	3
494020	31596	2	31596	2
516537	31597	1	31597	1
525967	31599	1	31599	1
559970	31601	2	31601	2
560378	31610	1	31610	1
573596	31615	1	31615	1
582361	31639	1	31639	1
594334	31647	5	31647	5
625009	31654	7	31654	7
630700	31655	3	31655	3
48356	31661	1	31661	1
268774	31675	2	31675	2
524205	31676	1	31676	1
151095	31679	4	31679	4
356944	31680	2	31680	2
508954	31682	1	31682	1
510944	31685	5	31685	5
553650	31686	7	31686	7
621305	31687	2	31687	2
427484	31688	1	31688	1
494595	31691	10	31691	10
510301	31692	1	31692	1
90579	31693	9	31693	9
116627	31695	4	31695	4
137847	31698	1	31698	1
240431	31700	2	31700	2
281155	31701	1	31701	1
291310	31713	1	31713	1
310856	31715	2	31715	2
339540	31716	1	31716	1
428174	31717	2	31717	2
440262	31718	4	31718	4
448529	31720	2	31720	2
463770	31721	8	31721	8
468060	31734	2	31734	2
504511	31735	6	31735	6
515125	31745	1	31745	1
593073	31750	8	31750	8
164956	31752	2	31752	2
190404	31755	5	31755	5
284724	31756	5	31756	5
299386	31759	2	31759	2
475708	31762	3	31762	3
138602	31765	15	31765	15
479005	31766	3	31766	3
574043	31767	23	31767	23
630922	31768	5	31768	5
449025	31769	3	31769	3
200338	31784	1	31784	1
219505	31785	1	31785	1
224543	31787	1	31787	1
236089	31788	10	31788	10
285914	31789	4	31789	4

288137	31794	1	31794	1
291208	31804	1	31804	1
293204	31806	1	31806	1
304402	31817	6	31817	6
304658	31818	3	31818	3
318394	31819	1	31819	1
319683	31823	1	31823	1
320521	31824	1	31824	1
320795	31825	1	31825	1
363154	31826	10	31826	10
429578	31828	2	31828	2
449456	31829	14	31829	14
450806	31836	18	31836	18
478937	31844	4	31844	4
31868	31848	2	31848	2
89415	31849	1	31849	1
101344	31851	1	31851	1
159078	31852	1	31852	1
173200	31853	2	31853	2
206517	31865	1	31865	1
283841	31866	3	31866	3
286094	31895	5	31895	5
286407	31896	3	31896	3
287971	31898	2	31898	2
302534	31899	1	31899	1
363517	31905	3	31905	3
405353	31907	1	31907	1
443293	31913	2	31913	2
445654	31914	2	31914	2
445788	31919	1	31919	1
447460	31920	1	31920	1
460508	31926	1	31926	1
473667	31931	1	31931	1
492908	31940	2	31940	2
500443	31941	2	31941	2
545272	31947	1	31947	1
554740	31954	2	31954	2
58460	31962	4	31962	4
94680	31966	1	31966	1
103436	31967	1	31967	1
108536	31971	3	31971	3
112314	31975	2	31975	2
176359	31976	1	31976	1
189275	31986	1	31986	1
229061	31987	16	31987	16
248911	31988	2	31988	2
260732	31989	2	31989	2
263002	31991	3	31991	3
282030	31994	1	31994	1
283794	31995	7	31995	7
288716	32001	2	32001	2
290875	32002	5	32002	5
299759	32003	3	32003	3
307327	32004	2	32004	2
309440	32005	7	32005	7

309761	32007	1	32007	1
310265	32011	2	32011	2
318499	32012	2	32012	2
345395	32035	8	32035	8
348476	32047	1	32047	1
351989	32053	4	32053	4
353515	32056	4	32056	4
417439	32057	10	32057	10
433646	32060	1	32060	1
440683	32085	3	32085	3
441932	32086	11	32086	11
467786	32088	2	32088	2
585588	32092	10	32092	10
597035	32093	15	32093	15
447634	32108	2	32108	2
91911	32109	1	32109	1
157104	32123	4	32123	4
314266	32124	1	32124	1
442944	32127	1	32127	1
431724	32128	10	32128	10
133911	32131	1	32131	1
414168	32132	1	32132	1
266972	32137	2	32137	2
182925	32138	19	32138	19
246925	32142	2	32142	2
284343	32150	1	32150	1
462710	32152	1	32152	1
266676	32157	1	32157	1
87690	32163	1	32163	1
360308	32167	1	32167	1
467304	32175	1	32175	1
362697	32176	1	32176	1
233095	32177	3	32177	3
293340	32181	4	32181	4
318929	32183	27	32183	27
590363	32184	3	32184	3
82685	32186	14	32186	14
165608	32187	9	32187	9
507933	32188	1	32188	1
147265	32199	1	32199	1
447098	32201	1	32201	1
450775	32208	3	32208	3
73718	32209	2	32209	2
50068	32211	7	32211	7
69242	32218	1	32218	1
139779	32224	5	32224	5
426715	32225	1	32225	1
477623	32235	1	32235	1
502607	32236	1	32236	1
350325	32244	1	32244	1
459243	32245	1	32245	1
464152	32247	3	32247	3
485076	32248	1	32248	1
318596	32249	1	32249	1
451900	32250	3	32250	3

121918	32251	1	32251	1
217506	32252	16	32252	16
429452	32254	1	32254	1
332435	32269	5	32269	5
391260	32270	1	32270	1
306202	32272	1	32272	1
515188	32273	1	32273	1
19564	32305	1	32305	1
148054	32308	1	32308	1
149372	32309	1	32309	1
168549	32311	1	32311	1
283987	32315	2	32315	2
339663	32340	1	32340	1
448553	32341	6	32341	6
574949	32345	2	32345	2
620089	32349	1	32349	1
544386	32350	1	32350	1
605119	32364	1	32364	1
166035	32368	5	32368	5
451007	32369	4	32369	4
127645	32392	1	32392	1
444198	32395	1	32395	1
167257	32397	1	32397	1
305452	32403	1	32403	1
354912	32450	1	32450	1
447984	32457	3	32457	3
464135	32508	1	32508	1
519144	32509	7	32509	7
427925	32517	1	32517	1
400932	32525	1	32525	1
616133	32526	1	32526	1
120984	32532	1	32532	1
325629	32540	1	32540	1
408225	32547	2	32547	2
424187	32567	2	32567	2
518857	32577	1	32577	1
611413	32578	2	32578	2
540271	32580	3	32580	3
264214	32601	4	32601	4
310074	32602	1	32602	1
427923	32603	3	32603	3
436804	32604	2	32604	2
571987	32606	3	32606	3
573070	32611	5	32611	5
191588	32612	1	32612	1
283987	32613	1	32613	1
293191	32615	6	32615	6
305338	32617	2	32617	2
564592	32635	2	32635	2
571730	32677	2	32677	2
182103	32688	1	32688	1
366113	32698	1	32698	1
592689	32699	2	32699	2
205714	32703	1	32703	1
530079	32709	1	32709	1

65359	32711	8	32711	8
172593	32732	2	32732	2
221845	32733	2	32733	2
310496	32740	1	32740	1
411640	32745	1	32745	1
449633	32757	1	32757	1
464114	32802	3	32802	3
471735	32805	1	32805	1
476741	32817	4	32817	4
516739	32915	1	32915	1
305655	32916	1	32916	1
211262	32918	2	32918	2
445825	32925	1	32925	1
148107	32950	3	32950	3
358558	32954	1	32954	1
469738	32960	1	32960	1
617166	32965	1	32965	1
190795	32970	1	32970	1
506126	32983	1	32983	1
294801	33010	57	33010	57
165977	33017	3	33017	3
144963	33022	1	33022	1
189760	33076	1	33076	1
205111	33082	1	33082	1
435623	33083	30	33083	30
451134	33086	1	33086	1
630723	33087	1	33087	1
629061	33088	1	33088	1
449713	33115	1	33115	1
69676	33131	1	33131	1
94261	33158	1	33158	1
197454	33166	1	33166	1
297735	33170	1	33170	1
314277	33172	1	33172	1
562115	33173	1	33173	1
570974	33188	1	33188	1
134301	33203	1	33203	1
230721	33204	1	33204	1
274676	33211	1	33211	1
305020	33229	1	33229	1
309895	33253	1	33253	1
356281	33260	2	33260	2
435559	33268	1	33268	1
577857	33269	5	33269	5
581231	33297	2	33297	2
292264	33331	2	33331	2
453730	33347	1	33347	1
475889	**Grand Total**	**4931**		
617644				
379145				
302374				
472799				
128580				
429934				
350053				

463032
294801
287483
294801
294838
309408
309857
589431
63181
324215
348654
445456
497477
506039
589193
605814
449432
451217
462782
182231
290436
297571
305954
310681
338472
366885
421183
505477
608856
9312
49205
191377
296923
307635
316902
353642
371094
447204
452104
475043
489460
491460
495868
283096
459671
580884
345097
447964
631126
311207
587972
593668
314660
439821
529472

445825
447691
457721
261050
388941
519229
545805
576226
468996
527455
476593
520440
482616
464353
540403
107606
120116
260514
318499
319833
324539
345826
419511
433254
437799
441540
454816
456497
456621
472516
493194
586831
601793
622376
59412
206211
238892
306962
318056
318364
334624
362671
372721
433064
438938
440100
447970
448456
454303
462471
474203
480850
481173
484770
484924

485011
514496
586420
611629
628882
630500
144198
335934
469726
626619
258233
283523
284508
352550
410701
452137
462390
464820
466763
476802
564948
625484
438019
292152
363923
454588
458434
624360
244062
447605
463963
486177
623883
193050
454581
460287
466630
476665
481420
554559
570271
596272
38702
58460
70735
448116
449474
457223
498207
510180
548957
568566
621612
10425
90430

107356
207414
231437
266676
283523
314302
325344
334182
350448
418764
427603
438257
454738
468012
468499
472856
479968
483218
487035
488154
514490
544017
563000
590571
612985
616740
632579
284531
285964
314979
457272
468012
487762
551173
549864
573584
467798
331692
995
27561
135812
178012
185389
197019
204655
295765
309883
461605
476657
485359
555127
559764
563913
592833
597800

135174
314497
440963
449524
461012
492510
447328
449816
471300
59418
69649
161427
164077
232773
281726
317970
318791
319073
319545
334219
335618
337561
345618
407418
438541
441895
448181
450123
450975
457342
462787
464498
466332
469691
471571
472326
472848
475191
482530
488276
500614
525126
540485
541715
546326
548276
549054
553227
559822
574308
580796
582527
601543
615815
629795

630320
631872
633214
172794
32621
445898
470041
484799
300540
164833
383626
503114
160060
170730
250358
255858
299062
323472
352501
434906
441519
450234
451370
456014
477812
504797
553913
571577
572590
598584
631154
63655
400210
285875
291627
439415
479120
605656
2875
31050
40652
42446
63968
73319
74018
76537
92595
101577
107922
114188
133200
147808
151101
152382
153139

155634
159336
161479
164077
167261
169550
172811
174396
177476
177496
185294
187024
191377
194456
194869
202469
208058
208265
210230
213668
220851
232171
233022
250200
259022
261025
263015
265873
270395
274213
278846
290875
291521
296074
306612
313918
314302
325267
345454
346131
347704
349870
352214
353892
353924
353960
354075
366113
367455
368648
370687
371094
371333
379445
379500

380998
396099
408676
411794
412422
415871
415950
417485
422627
424833
424839
430592
436890
437383
437389
437431
438106
438263
440163
440589
441695
442268
443052
443053
447122
448862
449983
450034
451115
451120
451536
451966
453860
457683
458187
458560
458870
460927
461323
461774
463239
463342
464152
464320
469115
469460
472847
473246
474208
474398
474794
475285
477462
481562
482349

483093
485603
492018
494764
494969
495371
500930
503866
504955
505812
510261
510945
513804
515625
518075
518536
523407
524729
526054
526202
526581
528411
529553
529578
540017
540877
542984
544015
557867
567894
569724
569772
571271
574093
578990
583121
585778
588206
589494
599532
599555
602372
602771
615745
617369
628852
628855
630009
995
4772
88610
448195
83639
169478
441334

451846
504827
506209
593038
610430
449166
477963
546088
462686
586639
140627
182474
346279
478817
497626
514269
515748
560980
610508
271413
551750
143956
177401
309550
356534
386049
448325
456082
462896
464052
488771
511722
350731
436163
444153
462567
250314
622473
74827
122073
154356
521149
543742
157119
481939
562666
455908
463799
583339
313988
463718
532913
27123
444454
454899

475920
621387
208801
527956
527996
547049
467956
557752
605818
607243
91176
97955
371274
430203
430833
563534
515188
73747
104433
170040
181942
220372
350963
457524
459034
463561
467350
467703
478133
502367
512026
526730
569078
585706
499248
514723
456519
477308
507446
454390
456519
458688
479198
549094
379145
461468
171464
478761
525095
617259
540148
162841
441778
466158
466274

508418
480826
480872
566269
492376
48224
52609
151174
477597
480707
147650
258244
410583
450182
452425
453301
476883
478586
478758
494628
505025
570297
589155
610454
146367
449333
135096
456988
459184
542218
572434
202403
597399
547716
189318
449852
577486
317213
482073
567902
136970
175367
276418
336905
423021
439962
441506
434871
444903
435831
513569
219140
74804
93244
154117

330724
466287
413952
459815
195290
342442
471057
544274
448894
378788
628399
509633
195184
473741
623532
616034
11402
58749
200255
217048
449295
479636
547473
579492
616182
628399
446621
545961
458566
500665
111551
137155
492495
523303
600714
84600
476134
476846
528575
464006
526690
193639
191297
514248
73481
133316
151174
180939
474147
474600
526782
556934
562775
592774
198121

611339
469319
579662
52042
519011
520313
514461
150156
53005
440609
473032
482333
607456
169426
309883
466975
169426
577635
459172
242355
509398
578187
39354
256509
449059
458147
471789
479275
495541
469063
587565
488285
497034
580952
488471
550945
553594
566459
502821
27939
296772
494965
447778
494637
574253
216127
286235
291743
447519
453256
454729
456651
462479
492111
519009

552976
616616
28510
258473
60743
436914
540482
127645
457479
122905
151708
456978
580355
487906
615325
581753
34133
451669
499296
512248
221721
38031
128435
524940
185664
464242
521302
477323
209580
579340
616740
103568
132511
610176
163816
467180
585721
223082
317
107413
354376
458170
487169
519977
570671
138637
540696
155162
473884
506209
480394
133911
462382
464726
485566

592376
584060
539359
169478
561750
448878
509529
510135
625631
563270
447252
487924
572549
464378
619132
516460
69387
71670
340797
509846
520797
527373
598950
154206
614494
568786
184289
132548
475361
484535
528467
545425
592148
455230
253213
365920
439565
483426
140152
203229
394911
445249
628958
456994
443236
475571
559343
478721
265956
437157
613490
96843
474728
620682
68562

456623
460961
482888
488960
505280
539885
558373
599386
617502
631626
301172
464514
476978
490267
491404
549259
567915
586897
481522
575691
149820
482088
527111
108198
470197
610020
165885
199199
223956
490663
124084
408800
437424
461654
463507
474299
194998
466079
506584
343523
433205
465933
466404
84897
468725
40588
56104
68147
155811
160060
176805
452502
478898
503260
550823

557110
558407
597764
136736
279652
466138
471594
564422
44492
58537
148198
158605
314191
440077
449058
462227
464970
475415
477923
495407
495779
497635
564817
580264
608857
616656
88964
134292
134752
140027
182552
188321
394293
438789
444780
468055
490937
500473
518430
550857
606125
613669
245656
461654
626265
26918
212200
254388
273535
316172
451396
454239
454385
462326
467158

469507
469739
470038
484799
487036
547698
90891
261285
298292
440916
446004
454929
463491
470749
482917
484316
486204
498159
593140
514235
447290
464039
474068
476063
601711
628316
261557
503169
627386
38635
169175
466494
575591
571144
524787
544383
625404
527617
568010
454703
464151
571247
612957
281408
283523
478025
573205
457045
111551
360000
483514
484909
507249
507934
557963

562363
575773
74546
462593
545199
447949
554950
99167
473729
481803
500714
176904
195834
574249
589627
461635
486814
549810
559381
467158
491370
73884
106635
261110
290283
447255
444507
172085
484520
608653
446937
485395
614159
462907
546265
624157
592286
172316
552425
557823
563440
616813
498129
163378
454143
509633
449354
68233
194498
476348
484563
501708
508334
624809
246735

307911
501282
554091
608427
458170
467471
476711
617016
151047
175434
191684
217842
499161
523069
555804
585974
196740
454146
485371
557535
473737
475535
478633
551073
584743
607048
465134
610641
17641
181145
317213
465237
467529
488885
491016
500227
160814
253189
478668
490214
521149
606547
42183
181039
473030
576652
486814
458445
145385
281487
287396
428205
480400
494024
497318

514937
586617
619170
184289
283850
483835
499348
608345
65808
237062
590879
477869
450674
493849
456079
598732
487218
84341
570188
301436
138493
153272
153723
166332
178376
202074
290903
298003
453437
456171
467480
476741
482894
489398
491856
502802
507599
545292
572320
624571
467692
458003
482720
191603
486647
335476
248879
466467
469001
480590
492479
510377
512238
546808
565618

597840
188319
493287
469713
142785
483974
585495
203118
247558
482608
550537
588140
66833
128483
133679
166332
205485
240368
298949
269641
519948
505110
120984
90002
64992
96712
96894
135382
237252
290875
443586
457973
464059
466100
496344
500403
561373
630383
157865
602599
521477
605420
609948
67312
546155
627536
246396
451421
482981
485428
295169
449613
463404
481965
520178

69106
447346
478799
508874
520797
522046
178376
463140
301436
310265
511623
468214
614749
553133
180939
464135
487450
628941
160060
547698
187955
487309
619045
89143
351210
471028
474466
618586
50674
196808
441437
459277
484960
569076
572561
573896
615116
617035
79633
153992
488979
306966
492634
499054
513301
526101
591745
184675
246415
474725
597216
62988
469902
498735
451348

462249
447317
543559
576229
564708
26576
26576
490776
551360
80503
548336
539967
543975
519370
264418
478961
485494
209896
543748
519234
579518
496935
160151
551936
492035
475122
88891
491016
577189
449297
65348
44443
27750
547110
203852
88227
184556
309307
484954
491392
520091
529323
557394
633193
55144
127645
181346
184534
203867
269653
276389
408225
484967
500614
501558

515966
526607
544436
550136
553995
567853
252968
492163
525414
562508
603213
597553
485741
513443
515688
602130
107225
178012
459671
493622
549595
578455
167495
495877
514817
632557
627926
74546
118189
126904
477993
513023
515382
523079
543179
556502
595095
631733
610981
595287
429988
178435
256829
278926
2858
500174
505025
518515
551396
554859
558844
170730
465887
488631
492476

511338
518975
525578
536509
542836
568628
609656
28180
611984
556377
510351
555029
569938
62429
103436
136177
153541
192637
264262
264622
265114
320276
459067
476589
476935
486541
488045
488933
505025
507624
508991
526581
540923
549403
559015
566925
571126
583238
584002
604171
612471
449526
549287
565754
601938
605302
8944
94587
589133
629247
346131
190539
247069
529844
521037

10606
566787
212
118547
193471
202082
243795
323472
561860
582923
611666
624127
399143
272950
595593
494390
71407
502254
503353
548790
570698
608244
614893
621604
494107
514197
155976
488771
549040
233293
523798
141659
581725
521790
527373
541611
576837
579544
599897
543518
621872
581787
184053
300907
499763
546816
56949
190881
242709
268202
292424
300575
447890
487328
519229

521750
550024
560041
580017
608316
627642
162862
509894
527272
630150
250200
605636
550692
539967
611915
203229
215167
613791
238636
573070
247537
546332
611469
84975
291743
301388
87142
172472
209908
232871
320051
519963
533407
568915
585501
457792
528317
575531
578046
105997
139382
534508
554295
140627
528767
563270
626644
62005
506527
546023
510129
242688
74804
563132
547678

83772
478113
541198
555063
560753
567126
581792
613452
547979
563487
600907
539759
542940
558582
567265
619763
539998
562394
63278
182326
587066
618349
34952
150026
601337
630357
511902
554048
559599
32351
85484
186547
274213
542440
543283
607127
575898
605821
37214
155634
157197
340886
400703
515188
544168
558974
585145
524559
64570
446845
595126
516067
23947
74505
173982

491067
524410
540148
577329
588951
598262
149552
52158
512420
528766
547261
547394
549163
556093
564861
575685
563409
580264
580730
622015
629434
285104
528199
542177
88227
562818
115268
490356
583077
581753
619310
165505
486194
78047
128439
203229
236468
479806
544977
625217
476032
497738
536509
559933
233640
450440
624098
160151
557674
607169
255616
560310
561299
413505
546955

594649
173282
221611
447041
495291
496703
503174
505209
506023
506576
517426
518546
522468
541833
542827
552031
555957
576543
581676
583579
598957
600784
616557
97773
504189
522468
524065
527932
549977
551776
618648
57714
500341
556486
571049
594296
151111
247119
556228
567060
633202
500915
520440
522926
557737
499506
509486
584448
306774
485382
489418
512878
528582
502624
558407

579662
438251
509656
262108
555357
558746
570974
555127
557499
582464
174129
527379
571487
615299
593898
621179
632623
508164
585132
629289
451080
589431
622012
188408
195595
541359
541539
541878
556896
570928
571568
571657
611991
612193
33529
488060
507851
529101
543532
625726
236466
460365
547110
27123
177766
279677
303489
465282
467798
529428
547117
583382
618372
633257
44001

150380
587780
622083
512754
200338
618152
546467
549833
618345
502584
523753
525899
8594
30482
198221
201798
265252
500228
501801
506315
517485
519026
529822
539515
539882
544291
551975
559012
568018
574264
627671
194208
503673
517430
526782
173569
215829
539841
33389
173511
86634
98330
266751
407898
510891
532913
539467
540037
541392
572676
80602
191377
290283
440812
543606

556016
575106
270069
519459
545021
545180
554053
190795
525514
31149
512145
546003
573581
509343
250200
581593
605752
281487
505651
510079
523843
524482
560770
561496
583176
172875
558453
560771
144963
267914
270069
497849
507584
511612
529694
541013
549262
581991
585111
83813
496050
502875
516127
541125
10902
524238
628667
464816
46947
237062
460365
593402
582540
562115
564567

118189
592149
614989
152869
516107
583643
549000
579691
610179
447031
514398
573883
473246
517301
123433
504474
515428
539479
542268
440
264418
219730
571891
519836
187408
213721
344873
436849
520696
585297
151528
289289
301436
467158
507183
572915
567191
580755
624582
468725
465530
580471
589979
595640
136736
187408
485412
520326
557022
589734
563400
294941
544069
557090
562659

585005
592549
548637
259294
527218
553433
564094
119484
170136
527729
553490
118644
458796
514096
514731
542842
556040
607104
614536
540240
616525
189360
455998
518513
524443
526724
542389
543613
556791
610446
462271
546190
585492
67950
68220
89088
124084
266676
507288
515428
539619
545357
551173
577602
579945
605223
605614
608427
515981
190539
293359
524669
526329
540161
541407

569172
583932
626927
451134
527189
541962
547869
581335
138619
517501
270312
515725
522214
557748
514793
517015
542120
549191
579917
592822
140935
615562
529322
544060
9999
525305
27407
99903
105736
156921
248993
292943
391814
450502
503837
545250
562923
575557
615977
207412
564607
541679
573045
575238
593934
238629
253737
30135
598272
570870
159668
581373
298524
568571
567355

89527
608339
63053
484361
500726
576631
586507
215167
221426
236689
255681
295169
314302
449983
461098
461676
488045
525994
539695
542984
543508
546643
549573
554562
557736
559231
559368
560120
566526
567211
568111
572086
572411
572893
575136
575522
576873
578160
578873
584318
595448
596965
603114
615771
618995
622811
632015
71407
177340
178988
320074
407673
465944
542970
573584

617503
555699
76675
121719
148940
280432
507249
526828
81340
14624
544834
551368
525514
567906
491284
526581
540249
625469
181000
319698
296505
543898
163290
156594
523260
554535
630528
41573
81751
211391
227470
335213
463136
512121
515664
518966
523364
539983
544194
552363
559047
569597
600391
631448
310326
566860
573644
581407
597956
617471
600764
573202
573203
21094
131638

305791
323472
429988
509640
515977
517596
517701
524001
524012
524483
524794
525215
528111
537917
540557
545818
551881
560564
564843
565536
568322
571153
576074
586163
596459
619291
512340
79772
319621
544432
550634
550643
154890
583735
593180
209028
559263
600391
413505
577335
580393
583055
605818
564851
572171
189276
620890
615043
557918
614421
347086
619641
456834
522606
527645

608592
148054
222356
528469
540424
543618
547116
547185
547608
550985
552730
552882
555935
562001
568659
572412
573437
578106
581143
583467
603076
609880
620576
625075
587709
628578
74018
454787
541914
550267
449852
523502
569917
592725
611991
251269
473566
554941
555641
583734
600951
25003
34952
559361
596839
14355
166608
190166
471511
481434
557671
573001
577547
602599
621027

624920
599077
515621
567806
608180
78184
132548
184728
386008
540854
545201
557977
603136
620812
463129
601001
190881
591942
280237
126764
69242
104485
486811
545292
551108
562144
41979
71690
201181
318649
547497
552104
554673
575022
575229
577574
580534
581023
587689
590985
592687
594421
605102
608553
624303
626472
628688
86617
198687
564603
578763
579118
585266
613372
164885

541903
543044
548185
552734
580675
585641
607187
620578
629512
186
150592
155634
187751
265173
270377
276939
289923
447890
526647
532565
545778
549005
549093
553148
555347
564532
566920
570412
570548
577829
578062
580661
582155
583585
589850
596051
602703
606052
609284
613074
613671
616240
622753
623550
627968
630135
542309
600337
608929
9469
562848
580498
582070
138644
547430

550494
572361
602316
608885
241701
524356
555926
557038
563236
574880
574960
576167
578707
583419
588862
590424
591812
592610
594976
598561
602444
614008
616343
618678
545115
564948
583858
587251
605900
609260
633219
447252
590820
632936
495216
62239
612441
572872
603875
310326
630241
590845
597524
180329
183406
259701
276628
455230
475166
547518
548249
551760
555701
558145
558782

559164
560093
562738
564486
564493
564557
565006
565213
566418
570262
571126
572553
574160
574359
576759
576818
578091
578991
579581
579828
579895
582619
582957
586034
592276
592931
592932
593650
600039
605547
606790
607422
610315
611275
617255
624687
629299
629612
240399
582360
615457
618907
587270
608700
568402
587867
624572
107356
572549
608427
593027
562766
584524
154356
179123

586449
618704
542603
572553
629299
125959
263550
455230
545600
561434
577520
583383
597216
601878
221426
632617
78785
467139
547678
137442
492824
582536
584415
590774
631427
516239
598595
619955
627797
162841
522501
567448
603389
612744
195813
575591
561308
614672
590490
572683
573598
617993
630469
8555
99104
155162
247268
493785
572912
583988
588943
597708
613598
620046
627367

629858
234657
432359
561244
583897
594066
523364
574949
41287
467722
512468
558746
559331
559932
570632
587897
588032
597035
597376
602544
607386
320590
571651
582378
596516
579026
578100
619271
97744
123697
181933
211034
346593
447832
517598
565575
577725
581173
582035
605764
55440
574308
604263
232115
549109
564208
622111
219745
348257
595540
596972
606735
630610
467798
579090

590088
626418
103436
217412
260208
455230
558782
586417
593098
609939
191377
607730
624595
608563
576424
44400
51253
62005
305791
540424
558693
631537
477623
571112
160414
563215
65160
573053
592037
464125
587833
606731
462926
280432
101381
344050
627648
188601
612193
632521
203229
250836
448387
574916
575574
582249
602300
608857
612775
620608
214938
557735
575581
581458
586863

594361
152032
162188
570700
573992
574031
584353
591241
595961
597369
599721
619781
620399
631231
56104
143029
190166
258469
544509
581790
592356
618459
219275
593307
586312
589193
621249
88964
117649
212852
454303
559984
562540
566150
574575
575520
592433
595788
599230
607851
608270
609691
611084
607365
628204
138721
526054
572761
573532
583032
602382
97429
570888
574006
225187

302185
626081
225467
516239
612011
613637
270231
576965
288162
591908
602786
620272
624860
214367
310326
476648
562839
575023
617171
619163
270440
584932
601711
622083
201341
588688
574237
165021
574193
589088
606903
213851
575176
283987
62005
169711
222391
564434
572089
66067
107236
147265
581174
596965
602316
610164
582503
585501
619029
90237
563624
567448
583896
584370
585783

595948
597364
607461
621472
545434
33239
34873
588900
590230
614911
616998
618958
626260
629689
579690
610633
612818
630407
291499
247069
484361
592286
623741
602828
622746
113749
627733
628557
588505
603261
605796
626693
261025
576862
595645
597958
599323
602348
604228
621980
622009
628295
615271
619613
139560
143397
492465
551173
575360
595628
123822
572052
576798
577238
584240

591338
606235
616484
622742
583652
596877
582285
583383
592376
603190
618855
90475
540424
587776
592977
630113
45166
621872
260786
595643
609255
166476
209068
449857
462271
575087
577486
586839
596965
597384
600357
612671
615316
617581
622473
627765
469460
471382
589790
34873
161979
164715
188476
275728
276069
309320
309459
449526
526581
581892
584524
588446
591878
595566
596969

603286
606363
608231
610790
611150
628851
628958
309895
583763
586638
586744
610275
565597
589891
592370
607760
629766
624643
160614
561686
574053
577555
595014
615146
619348
619653
620080
621014
317852
558294
606104
609752
104485
154435
195813
259532
276513
573505
607063
607247
622381
583490
621263
622955
603756
578608
188600
609808
417485
575171
575549
577732
583074
593329
609745

624825
627061
628042
625566
630015
50715
94086
189025
242423
309811
579544
580199
580723
582335
582738
588145
596409
600968
628062
210615
289923
511451
563559
573749
574241
576840
585588
597583
598775
606282
608300
611765
616000
616913
620458
630324
630609
52455
224604
575162
614758
89088
574292
480143
574188
610109
587580
625213
579095
153272
571308
620694
72059
290875
595171

610508
610925
569906
598481
615201
247119
630803
605605
589354
628723
630062
607760
69387
212012
577882
592134
617701
570336
604665
579936
448346
567101
179966
576589
579667
462344
586611
572766
575924
597151
622014
605497
324438
579909
599916
600013
604171
605929
605862
552025
158730
196779
215139
449526
568882
573675
578501
583331
588146
589935
591423
592886
609915
612178
620964

624639
575882
593049
195161
587435
182103
447453
611555
450165
578488
585583
588828
592087
604176
611904
611987
588148
608615
142365
165270
543898
579311
580264
330505
562929
611789
289479
604002
137442
561100
572645
577883
594370
600475
630706
222547
52609
583476
588482
620016
569594
571298
576543
582280
590344
598823
623075
630858
610933
566139
580004
596651
628543
193471
592861

617006
618077
160418
196779
303605
576497
582169
604781
607569
618461
620588
630131
542397
169403
516826
606008
36057
67950
152481
283870
453934
477623
570039
579936
592413
596043
601141
594844
597856
294442
573366
578201
582253
588522
589409
599286
609050
613244
631076
285898
368648
445941
571548
574447
576090
581311
581564
587593
595183
598304
607735
611272
627101
629566
575930

602148
620641
292264
587475
613275
631126
621826
586183
67668
89090
190539
472799
520356
579645
593154
595739
599405
611789
434755
618388
477993
605854
158676
160151
309937
318205
500403
538726
553148
572191
578539
579419
582109
582252
584337
590655
598135
602383
605375
606953
628861
29942
601334
235569
93950
193075
145618
624606
610387
203852
591509
610517
620629
567448
604172

604711
613578
26532
36422
200069
227470
280670
507288
513848
529495
547100
583831
585324
585530
586115
586247
587724
595850
597093
597315
598130
602964
605636
615634
620330
620866
622588
624774
631521
141311
267755
607729
66067
153215
459332
505025
547116
573896
576936
601876
607246
617760
620086
623113
626170
630441
240860
465944
585167
603215
603543
612348
615188
625395
632612

128522
447742
283987
607787
611316
619030
464353
584775
205254
603975
605261
608722
611476
620244
632675
625607
52177
165390
214938
602146
611446
5780
631929
581615
603097
468594
563658
611043
623358
176805
178896
487737
612509
625087
632436
145086
192946
360000
594732
605499
610059
612888
614863
618734
623358
623915
624874
625427
627237
627748
629647
217510
176480
616674
621428

629604
633600
414243
626688
325701
10030
163301
607207
284531
608015
623882
603008
283492
580774
610681
611795
615821
623060
128541
261110
623583
626062
624846
602735
619692
624737
627975
633546
88515
283523
464816
633640
625460
147988
625030
614375
629629
611915
620867
625386
620030
94152
560307
579544
616404
628256
628790
629643
267755
625809
611024
231800
624646
619121
629877

626514
631731
627594
625749
626864
626173
628566
632874
109191
618560
625929
626999
309877
626985
628562
631909
630137
630561
575691
621547
627475
488631
556797
617821
626046
627926
322184
628059
449526
576936
611322
612761
620934
626751
625246
628998
609299
617897
613502
623161
128439
614314
15357
630811
70649
623965
168683
618240
623784
623793
626568
627734
632076
632901
629984

632454
40878
475474
534508
633558
399143
524356
621462
625597
617624
620263
624119
625111
629753
70735
632464
279677
618308
290875
570171
618152
632188
632218
203229
621473
626957
621249
88964
217391
276389
283212
309550
622038
622220
624143
625483
625698
627000
627485
627514
627573
627696
627709
627727
628020
628194
628442
628508
628629
628634
628781
628855
628976
629064
629494

629591
629714
629847
629898
630011
630013
630069
630076
630129
630324
630423
630596
630611
630629
630658
630723
630742
630901
631804
631937
631938
632443
632448
632668
632751
632923
633098
633520
633650
602962
614975
632461
625804
467139
225277
621832
627108
627626
627731
627830
628155
628376
628631
628636
628774
629515
629758
630011
630076
630329
630333
630566
630596
630640
630742

630957
631859
631872
632289
632528
632533
632557
632751
632808
633520
621213
625262
633437
632290
632588
143966
627723
162611
526581
163752
463129
628236
628534
145618
145238
505271
133038
631422
586507
69649
487277
573282
626268
632198
581753
629374
630076
632751
439962

Mpg	Data_Col_Meth	City	Highway	MpgID	DiaryID	StartDate	EndDate
84	MPG_M			111163		12/7/2013	
87	MPG_M			110977			
89.2	MPG_B			110224			
96.4	MPG_M			109888			
90	MPG_B			109612			
93	MPG_B			109098			
90	MPG_M			108812			
94	MPG_M			108450			
86.3	MPG_B			108031			
95.2	MPG_M			107553			
88.2	MPG_M			107219			
91.7	MPG_M			106711		6/27/2012	7/3/2012
89	MPG_M			106537			
91.6	MPG_M			106280			
89.6	MPG_M			106279			
92.2	MPG_M			105686		5/15/2012	5/30/2012
95.2	MPG_M			105331			
90.4	MPG_M			105027		4/27/2012	5/7/2012
94.3	MPG_M			104729		4/13/2012	4/27/2012
88.1	MPG_M			104158		4/13/2012	
95.6	MPG_M			103130		2/29/2012	3/12/2012
84.7	MPG_B	100	0	102749		2/20/2012	2/29/2012
87.7	MPG_M	100	0	102423		2/10/2012	2/20/2012
90.1	MPG_M	100	0	102181		1/21/2012	2/10/2012
94.7	MPG_M			101698		1/7/2012	1/21/2012
84	MPG_M	100	0	101368		12/27/2011	1/7/2012
89.9	MPG_M			101108			
87.9	MPG_M			100929		12/3/2011	12/17/2011
85	MPG_M	100	0	100575		11/25/2011	12/3/2011
81.5	MPG_M	100	0	100374		11/16/2011	11/25/2011
90.2	MPG_M	100	0	100141		11/7/2011	11/16/2011

DateCreated	Observations	FillUpDate	Gallons	Cost	Miles
12/22/2012 22:26	0				
12/13/2012 23:23	0				
11/19/2012 12:23	0				
11/5/2012 21:20	0				
10/27/2012 23:55	0				
10/9/2012 9:32	0				
9/26/2012 21:34	0				
9/12/2012 10:59	0				
8/27/2012 13:32	0				
8/9/2012 0:22	0				
7/25/2012 21:43	0				
7/8/2012 9:23	0				
6/29/2012 22:23	0				
6/20/2012 9:39	0				
6/20/2012 9:39	0				
5/31/2012 20:49	0				
5/17/2012 20:10	0				
5/7/2012 23:53	1				
4/27/2012 23:41	0				
4/13/2012 21:41	1				
3/12/2012 21:47	1				
2/29/2012 22:45	0				
2/20/2012 21:38	1				
2/10/2012 21:41	0				
1/21/2012 19:45	0				
1/7/2012 21:40	1				
12/27/2011 21:39	0				
12/17/2011 21:35	1				
12/3/2011 22:46	0				
11/25/2011 22:10	1				
11/16/2011 22:47	1				

Notes	DriverID	VehicleID	Description	Active	GarageID
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
	529495	25389			550392
First estimate Yamaha Vino 125	529495	25389			550392

ShowGauge	ShowCost	ShowDrive	IdUncertain	FormType	DrivingStyle	State

Driver_DateCreated	Status	EmailStatus	Share	IntroVisited	KeepEmailAddress

ID1	barrels08	barrelsA08	charge120	charge240	city08	city08U	cityA08
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		
					8		

cityA08U	cityCD	cityE	cityUF	co2	co2A	co2TailpipeAG pm

co2TailpipeGpm	comb08	comb08U	combA08	combA08U	combE
	10				
	10				
	10				

combinedCD	combinedUF	cylinders	displ	drive	engId
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	
		12	6.5	4-Wheel or All-Wheel Drive	

eng_dscr	feScore	fuelCostI08	fuelCostA08	fuelType	fuelType1	ghgScore
				Premium		
				Premium		
				Premium		

ghgScoreA	highway08	highway08U	highwayA08	highwayA08U	highwayCD
	13				
	13				
	13				

highwayE	highwayUF	hlv	hpv	id	lv2	lv4	make	model	mpgData
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	
							Lamborghini	Murcielago	

phevBlended	pv2	pv4	rangeCityA	rangeHwyA	trany	UCity	UCityA
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		
					Manual 6-spd		

UHighway	UHighwayA	VClass	year	youSaveSpend	guzzler	trans_dscr
			2009			
			2009			
			2009			

tCharger	sCharger	atvType	fuelType2	rangeA	evMotor	mfrCode	lgpm
							0.011904762
							0.011494253
							0.011210762
							0.010373444
							0.011111111
							0.010752688
							0.011111111
							0.010638298
							0.011587486
							0.010504202
							0.011337868
							0.010905125
							0.011235955
							0.010917031
							0.011160714
							0.010845987
							0.010504202
							0.011061947
							0.010604454
							0.011350738
							0.010460251
							0.011806375
							0.011402509
							0.011098779
							0.010559662
							0.011904762
							0.011123471
							0.011376564
							0.011764706
							0.012269939
							0.011086475

Driver_count	Gallons_filter	Miles_filter
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1
1	1	1

Vehicle Description	Number of Vehicles
2012 Volkswagen Jetta 2L 4cyl Manual 6-spd	13
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18
2011 Ford Fiesta 1.6L 4cyl Manual 5-spd	9
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31
2011 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	9
2012 Volkswagen Jetta 2L 4cyl Automatic (S6)	8
2010 Honda Fit 1.5L 4cyl Manual 5-spd	8
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16
2009 Pontiac G5 XFE 2.2L 4cyl Manual 5-spd	9
2009 Ford Fusion FWD 2.3L 4cyl Automatic 5-spd	8
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10
2012 Volkswagen Golf 2L 4cyl Manual 6-spd	8
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17
2009 Honda Civic 2L 4cyl Manual 6-spd	9
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11
2010 Mazda 3 2.5L 4cyl Manual 6-spd	9
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17
2009 Toyota Corolla 1.8L 4cyl Manual 5-spd	9
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32
2012 Chevrolet Sonic 5 1.4L 4cyl Manual 6-spd	8
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10
2009 Nissan Versa 1.8L 4cyl Manual 6-spd	8
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16
2009 Scion xB 2.4L 4cyl Automatic (S4)	8
2009 Pontiac Vibe 1.8L 4cyl Automatic 4-spd	8
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12

2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11
2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29
2009 Honda Odyssey 3.5L 6cyl Automatic 5-spd	9
2012 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	9
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10
2009 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	9
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37
2009 Hyundai Accent 1.6L 4cyl Manual 5-spd	8
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33
2010 Hyundai Elantra 2L 4cyl Automatic 4-spd	9
2009 Ford Focus FWD 2L 4cyl Manual 5-spd	8
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12
2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19
2009 Acura TSX 2.4L 4cyl Automatic (S5)	8
2009 Hyundai Elantra 2L 4cyl Automatic 4-spd	9
2011 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	9
2010 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	9
2010 Kia Forte 2L 4cyl Automatic 4-spd	12
2010 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	8
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10
2009 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	8
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22
2012 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	8
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11
2010 Kia Soul 2L 4cyl Automatic 4-spd	11
2011 Ford Focus FWD 2L 4cyl Automatic 4-spd	9
2009 Nissan Versa 1.8L 4cyl Automatic (variable gear ratios)	9
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14
2010 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	8
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10

2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15
2011 Kia Forte 2L 4cyl Automatic 6-spd	9
2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10
2012 Subaru Impreza AWD 2L 4cyl Automatic (variable gear ratios)	8
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15
2011 Honda Accord 2.4L 4cyl Automatic 5-spd	8
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13
2010 Chevrolet Camaro 3.6L 6cyl Automatic (S6)	8
2011 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	9
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear ratios)	14
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10
2009 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	8
2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10
2011 Kia Optima 2.4L 4cyl Automatic 6-spd	9
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10
2012 Kia Soul 2L 4cyl Automatic 6-spd	10
2012 Kia Forte 2L 4cyl Automatic 6-spd	8
2011 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	9
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40
2011 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	8
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16
2011 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	8
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16
2013 Lexus ES 300h 2.5L 4cyl Auto(AV-S6)	8
2009 Hyundai Accent 1.6L 4cyl Automatic 4-spd	9
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174
2011 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	8
2012 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	9
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30

My MPG - EPA Cmb	PCT Diff
11.0	32%
10.8	32%
9.5	28%
8.1	25%
7.9	24%
7.9	24%
7.7	19%
7.7	23%
7.2	25%
7.0	21%
6.7	20%
6.6	20%
6.5	20%
6.0	15%
5.9	17%
5.8	20%
5.7	17%
5.5	18%
5.4	23%
5.4	16%
5.4	16%
5.3	13%
5.2	21%
5.2	22%
5.0	15%
4.6	16%
4.3	14%
4.3	16%
4.3	14%
4.2	22%
4.0	18%
4.0	17%
3.9	12%
3.9	11%
3.9	12%
3.8	13%
3.8	11%
3.8	13%
3.6	11%
3.5	15%
3.5	11%
3.5	12%
3.4	11%
3.4	12%
3.3	14%
3.3	11%
3.1	9%
3.0	9%
2.9	12%
2.8	10%
2.8	11%
2.8	10%

	By MT	by veh-dr
Avg	1.8	1.84
Avg PCT Diff	6%	7%

2.6	8%
2.6	8%
2.3	12%
2.3	5%
2.3	7%
2.2	10%
2.1	7%
2.1	7%
2.1	7%
2.1	9%
2.0	6%
1.9	7%
1.9	8%
1.9	9%
1.9	5%
1.8	4%
1.8	6%
1.8	6%
1.8	6%
1.7	7%
1.7	6%
1.6	7%
1.6	6%
1.5	6%
1.5	6%
1.3	5%
1.3	5%
1.2	3%
1.1	4%
1.0	4%
1.0	5%
1.0	3%
1.0	2%
0.8	3%
0.8	3%
0.8	4%
0.6	1%
0.5	2%
0.5	1%
0.4	2%
0.4	2%
0.4	1%
0.3	1%
0.3	1%
0.2	1%
0.2	1%
0.1	1%
0.1	0%
0.1	0%
0.0	0%
0.0	0%
-0.1	0%
-0.1	0%
-0.1	0%

-0.1	-1%
-0.2	-1%
-0.2	-1%
-0.3	-1%
-0.3	-1%
-0.4	-1%
-0.4	-1%
-0.4	-1%
-0.4	-2%
-0.5	-2%
-0.6	-2%
-0.6	-2%
-0.7	-2%
-0.7	-3%
-0.7	-2%
-0.9	-3%
-0.9	-3%
-0.9	-2%
-1.0	-4%
-1.1	-4%
-1.4	-4%
-1.4	-3%
-1.4	-3%
-1.4	-6%
-1.6	-6%
-1.8	-6%
-1.8	-6%
-2.1	-6%
-2.4	-6%
-2.5	-9%
-2.5	-7%
-2.7	-10%
-2.9	-6%
-2.9	-11%
-3.0	-8%
-3.3	-12%
-4.2	-13%
-7.5	-16%
-7.6	-16%

Message

From: French, Roberts [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0C2BB2BD2583415DA682F78CBE2154BC-FRENCH, ROBERTS]
Sent: 2/21/2013 7:05:02 PM
To: Zaremski, Sara [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Bunker, Byron [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]
Subject: vehicle table attached
Attachments: 8-or-more-table.xlsx

Vehicle Description	Number of Vehicles
2012 Volkswagen Jetta 2L 4cyl Manual 6-spd	13
2010 Volkswagen Golf 2L 4cyl Manual 6-spd	13
2010 Volkswagen Jetta 2L 4cyl Manual 6-spd	18
2011 Ford Fiesta 1.6L 4cyl Manual 5-spd	9
2012 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	13
2011 Chevrolet Cruze Eco 1.4L 4cyl Manual 6-spd	17
2010 Honda Insight 1.3L 4cyl Auto(AV-S7)	19
2012 Fiat 500 1.4L 4cyl Manual 5-spd	11
2009 Honda Fit 1.5L 4cyl Manual 5-spd	23
2011 Honda CR-Z 1.5L 4cyl Manual 6-spd	11
2012 Volkswagen Passat 2L 4cyl Automatic (S6)	16
2009 Volkswagen Jetta 2L 4cyl Manual 6-spd	22
2009 Volkswagen Jetta 2L 4cyl Automatic (S6)	31
2011 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	9
2012 Volkswagen Jetta 2L 4cyl Automatic (S6)	8
2010 Honda Fit 1.5L 4cyl Manual 5-spd	8
2010 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	16
2009 Pontiac G5 XFE 2.2L 4cyl Manual 5-spd	9
2009 Ford Fusion FWD 2.3L 4cyl Automatic 5-spd	8
2011 Volkswagen Jetta 2L 4cyl Automatic (S6)	10
2012 Volkswagen Golf 2L 4cyl Manual 6-spd	8
2010 Honda Insight 1.3L 4cyl Automatic (variable gear ratios)	27
2010 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	17
2009 Honda Civic 2L 4cyl Manual 6-spd	9
2009 Volkswagen Jetta SportWagen 2L 4cyl Manual 6-spd	18
2009 Honda Civic 1.8L 4cyl Manual 5-spd	12
2009 Toyota Yaris 1.5L 4cyl Automatic 4-spd	13
2009 Ford Focus FWD 2L 4cyl Automatic 4-spd	13
2009 Honda Fit 1.5L 4cyl Automatic 5-spd	18
2009 Toyota Tacoma 4WD 2.7L 4cyl Manual 5-spd	10
2009 Subaru Forester AWD 2.5L 4cyl Manual 5-spd	11
2010 Mazda 3 2.5L 4cyl Manual 6-spd	9
2010 Volkswagen Jetta 2L 4cyl Automatic (S6)	16
2010 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	13
2011 Ford Fiesta 1.6L 4cyl Auto(AM6)	17
2009 Toyota Corolla 1.8L 4cyl Manual 5-spd	9
2011 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	11
2009 Honda Fit 1.5L 4cyl Automatic (S5)	32
2012 Chevrolet Sonic 5 1.4L 4cyl Manual 6-spd	8
2009 Pontiac Vibe 2.4L 4cyl Automatic (S5)	14
2009 Toyota Yaris 1.5L 4cyl Manual 5-spd	10
2009 Nissan Versa 1.8L 4cyl Manual 6-spd	8
2009 Toyota Corolla 1.8L 4cyl Automatic 4-spd	50
2011 Honda Civic 1.8L 4cyl Automatic 5-spd	11
2011 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	15
2010 Toyota Corolla 1.8L 4cyl Automatic 4-spd	29
2009 smart fortwo coupe 1L 3cyl Automatic (AM5)	14
2009 Volkswagen Jetta SportWagen 2L 4cyl Automatic (S6)	16
2009 Scion xB 2.4L 4cyl Automatic (S4)	8
2009 Pontiac Vibe 1.8L 4cyl Automatic 4-spd	8
2011 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	28
2009 Toyota Matrix 1.8L 4cyl Automatic 4-spd	12

2012 Mazda 3 DI 5-Door 2L 4cyl Automatic (S6)	11
2009 Toyota Camry Hybrid 2.4L 4cyl Automatic (variable gear ratios)	29
2009 Honda Odyssey 3.5L 6cyl Automatic 5-spd	9
2012 Lexus CT 200h 1.8L 4cyl Automatic (variable gear ratios)	9
2012 Mazda 3 DI 4-Door 2L 4cyl Automatic (S6)	10
2009 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	9
2012 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	13
2010 Ford Focus FWD 2L 4cyl Automatic 4-spd	11
2012 Hyundai Accent 1.6L 4cyl Automatic 6-spd	20
2012 Subaru Outback Wagon AWD 2.5L 4cyl Automatic (variable gear ratios)	16
2012 Honda Civic 1.8L 4cyl Automatic 5-spd	37
2009 Hyundai Accent 1.6L 4cyl Manual 5-spd	8
2010 Acura TSX 2.4L 4cyl Automatic (S5)	10
2010 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	14
2010 Lexus HS 250h 2.4L 4cyl Automatic (variable gear ratios)	10
2009 Toyota Prius 1.5L 4cyl Automatic (variable gear ratios)	33
2010 Hyundai Elantra 2L 4cyl Automatic 4-spd	9
2009 Ford Focus FWD 2L 4cyl Manual 5-spd	8
2009 Honda Civic 1.8L 4cyl Automatic 5-spd	32
2012 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	12
2011 Chevrolet Cruze 1.4L 4cyl Automatic (S6)	19
2009 Acura TSX 2.4L 4cyl Automatic (S5)	8
2009 Hyundai Elantra 2L 4cyl Automatic 4-spd	9
2011 Ford Fusion FWD 2.5L 4cyl Automatic 6-spd	9
2010 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	9
2010 Kia Forte 2L 4cyl Automatic 4-spd	12
2010 Toyota RAV4 4WD 2.5L 4cyl Automatic 4-spd	8
2009 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	16
2011 Toyota Corolla 1.8L 4cyl Automatic 4-spd	14
2010 Honda Accord 2.4L 4cyl Automatic 5-spd	10
2009 Toyota Tacoma 4WD 4L 6cyl Automatic 5-spd	8
2012 Kia Rio 1.6L 4cyl Automatic 6-spd	10
2012 Toyota Prius c 1.5L 4cyl Automatic (variable gear ratios)	27
2010 Honda Civic 1.8L 4cyl Automatic 5-spd	20
2009 Hyundai Sonata 2.4L 4cyl Automatic 5-spd	23
2009 Subaru Forester AWD 2.5L 4cyl Automatic (S4)	15
2012 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	22
2012 Hyundai Sonata 2.4L 4cyl Automatic 6-spd	8
2009 smart fortwo convertible 1L 3cyl Automatic (AM5)	10
2010 Mazda 3 2.5L 4cyl Automatic (S5)	11
2010 Kia Soul 2L 4cyl Automatic 4-spd	11
2011 Ford Focus FWD 2L 4cyl Automatic 4-spd	9
2009 Nissan Versa 1.8L 4cyl Automatic (variable gear ratios)	9
2012 Toyota Prius v 1.8L 4cyl Automatic (variable gear ratios)	18
2012 Ford Focus FWD 2L 4cyl Auto(AM-S6)	21
2010 Toyota Camry 2.5L 4cyl Automatic (S6)	19
2011 Toyota Camry 2.5L 4cyl Automatic (S6)	11
2009 Toyota Camry 2.4L 4cyl Automatic 5-spd	23
2012 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	14
2009 Honda Accord 2.4L 4cyl Automatic 5-spd	16
2010 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	14
2010 Subaru Legacy AWD 2.5L 4cyl Automatic (variable gear ratios)	8
2009 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	12
2012 Honda CR-V 2WD 2.4L 4cyl Automatic 5-spd	10

2012 Toyota Camry 2.5L 4cyl Automatic (S6)	15
2011 Kia Forte 2L 4cyl Automatic 6-spd	9
2011 Toyota Sienna 2WD 3.5L 6cyl Automatic (S6)	10
2012 Subaru Impreza AWD 2L 4cyl Automatic (variable gear ratios)	8
2012 Honda CR-V 4WD 2.4L 4cyl Automatic 5-spd	19
2009 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	11
2012 Toyota Camry Hybrid XLE 2.5L 4cyl Automatic (variable gear ratios)	15
2011 Honda Accord 2.4L 4cyl Automatic 5-spd	8
2011 Honda Odyssey 3.5L 6cyl Automatic 5-spd	13
2010 Chevrolet Camaro 3.6L 6cyl Automatic (S6)	8
2011 Chevrolet Malibu 2.4L 4cyl Automatic (S6)	9
2012 Subaru Impreza Wagon/Outback Sport AWD 2L 4cyl Automatic (variable gear ratios)	14
2012 Ford Focus SFE FWD 2L 4cyl Auto(AM6)	10
2009 Toyota Highlander Hybrid 4WD 3.3L 6cyl Automatic (variable gear ratios)	8
2010 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	49
2012 Honda Accord 2.4L 4cyl Automatic 5-spd	10
2011 Kia Optima 2.4L 4cyl Automatic 6-spd	9
2012 Toyota Camry Hybrid LE 2.5L 4cyl Automatic (variable gear ratios)	10
2012 Kia Soul 2L 4cyl Automatic 6-spd	10
2012 Kia Forte 2L 4cyl Automatic 6-spd	8
2011 Ford Fusion Hybrid FWD 2.5L 4cyl Automatic (variable gear ratios)	9
2010 Honda Civic Hybrid 1.3L 4cyl Automatic (variable gear ratios)	10
2011 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	40
2011 Kia Sorento 2WD 2.4L 4cyl Automatic 6-spd	8
2010 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	16
2011 Toyota Highlander Hybrid 4WD 3.5L 6cyl Automatic (variable gear ratios)	8
2011 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	28
2013 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	16
2013 Lexus ES 300h 2.5L 4cyl Auto(AV-S6)	8
2009 Hyundai Accent 1.6L 4cyl Automatic 4-spd	9
2011 Hyundai Sonata Hybrid 2.4L 4cyl Automatic 6-spd	23
2011 Chevrolet Equinox FWD 2.4L 4cyl Automatic 6-spd	21
2010 Toyota Prius 1.8L 4cyl Automatic (variable gear ratios)	174
2011 GMC Terrain FWD 2.4L 4cyl Automatic 6-spd	8
2012 Kia Optima Hybrid 2.4L 4cyl Automatic 6-spd	9
2010 Nissan Altima 2.5L 4cyl Automatic (variable gear ratios)	10
2012 Hyundai Elantra 1.8L 4cyl Automatic 6-spd	50
2013 Ford C-MAX Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	57
2013 Ford Fusion Hybrid FWD 2L 4cyl Automatic (variable gear ratios)	30

My MPG - EPA Cmb	PCT Diff
11.0	32%
10.8	32%
9.5	28%
8.1	25%
7.9	24%
7.9	24%
7.7	19%
7.7	23%
7.2	25%
7.0	21%
6.7	20%
6.6	20%
6.5	20%
6.0	15%
5.9	17%
5.8	20%
5.7	17%
5.5	18%
5.4	23%
5.4	16%
5.4	16%
5.3	13%
5.2	21%
5.2	22%
5.0	15%
4.6	16%
4.3	14%
4.3	16%
4.3	14%
4.2	22%
4.0	18%
4.0	17%
3.9	12%
3.9	11%
3.9	12%
3.8	13%
3.8	11%
3.8	13%
3.6	11%
3.5	15%
3.5	11%
3.5	12%
3.4	11%
3.4	12%
3.3	14%
3.3	11%
3.1	9%
3.0	9%
2.9	12%
2.8	10%
2.8	11%
2.8	10%

	By MT	by veh-dr
Avg	1.8	1.84
Avg PCT Diff	6%	7%

2.6	8%
2.6	8%
2.3	12%
2.3	5%
2.3	7%
2.2	10%
2.1	7%
2.1	7%
2.1	7%
2.1	9%
2.0	6%
1.9	7%
1.9	8%
1.9	9%
1.9	5%
1.8	4%
1.8	6%
1.8	6%
1.8	6%
1.7	7%
1.7	6%
1.6	7%
1.6	6%
1.5	6%
1.5	6%
1.3	5%
1.3	5%
1.2	3%
1.1	4%
1.0	4%
1.0	5%
1.0	3%
1.0	2%
0.8	3%
0.8	3%
0.8	4%
0.6	1%
0.5	2%
0.5	1%
0.4	2%
0.4	2%
0.4	1%
0.3	1%
0.3	1%
0.2	1%
0.2	1%
0.1	1%
0.1	0%
0.1	0%
0.0	0%
0.0	0%
-0.1	0%
-0.1	0%
-0.1	0%

-0.1	-1%
-0.2	-1%
-0.2	-1%
-0.3	-1%
-0.3	-1%
-0.4	-1%
-0.4	-1%
-0.4	-1%
-0.4	-2%
-0.5	-2%
-0.6	-2%
-0.6	-2%
-0.7	-2%
-0.7	-3%
-0.7	-2%
-0.9	-3%
-0.9	-3%
-0.9	-2%
-1.0	-4%
-1.1	-4%
-1.4	-4%
-1.4	-3%
-1.4	-3%
-1.4	-6%
-1.6	-6%
-1.8	-6%
-1.8	-6%
-2.1	-6%
-2.4	-6%
-2.5	-9%
-2.5	-7%
-2.7	-10%
-2.9	-6%
-2.9	-11%
-3.0	-8%
-3.3	-12%
-4.2	-13%
-7.5	-16%
-7.6	-16%

Appointment

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 8/21/2013 5:58:59 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=user38ddfc61]; D'Ambrosi, Anthony [ADAmbrosi@hatci.com]; Babcock, Robert [rbabcock@hatci.com]

Subject: Hyundai coastdown audit testing
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

Start: 8/26/2013 4:30:00 PM
End: 8/26/2013 5:00:00 PM
Show Time As: Tentative

Appointment

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 8/21/2013 5:58:59 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Snyder, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Dalton, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5e590ca117f84cc384adcf13b68b4358-Dalton, Joel]; AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=user38ddfc61]; D'Ambrosi, Anthony [ADAmbrosi@hatci.com]; Babcock, Robert [rbabcock@hatci.com]

Subject: Hyundai coastdown audit testing
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

Start: 8/26/2013 4:30:00 PM
End: 8/26/2013 5:00:00 PM
Show Time As: Tentative

Appointment

From: Dalton, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5E590CA117F84CC384ADCF13B68B4358-DALTON, JOEL]
Sent: 8/21/2013 5:59:36 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]

Subject: Tentative: Hyundai coastdown audit testing
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

Start: 8/26/2013 4:30:00 PM
End: 8/26/2013 5:00:00 PM
Show Time As: Busy

Appointment

From: Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260D02987D49E280FC03D2A8D18DDD-SNYDER, JIM]
Sent: 8/21/2013 9:52:25 PM
To: Ball, Joel [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=92af2ab6f5274bc597249d04358ef25f-Ball, Joel]

Subject: Accepted: Hyundai coastdown audit testing
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

Start: 8/26/2013 4:30:00 PM
End: 8/26/2013 5:00:00 PM
Show Time As: Busy

Message

From: Ellies, Ben [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16C8CDA908E443D78BBE094CA5501B70-ELLIES, BEN]
Sent: 2/6/2013 1:15:22 PM
To: Nevers, Chris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A07a9723e93c43d9843e466f7fac0638-Nevers, Chris]; Snyder, Jim [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=18260d02987d49e280fc03d2a8d18ddd-Snyder, Jim]; Peavyhouse, Robert [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1394f25fc907481389da07306bb3a027-Peavyhouse, Robert]
Subject: looking for some CD help on US06 data for turbos, etc.
Attachments: 13tstcar-2012-11-09.csv

Hey guys
As a followup to the meeting yesterday with Bill, I want to analyze the certification data on the relevant vehicles with turbo engines.

If I am looking at the test car list data such as this file

13tstcar-2012-11...

And don't really know how to sift out the data that might be useful.

Some of the data fields might be useful in identifying just what exactly I am looking at, and what should be taken with a grain of salt.

For example
what does the field "Analytically Derived Fuel Economy" mean? Is that basically the difference between a tested 5-cycle label and a mathematically determined label?
what can I learn from the ACTUAL_TESTED_TESTGROUP
are there any fields for NA vs turbo engine somewhere in this file...?

etc.

Better yet, if you have maybe 15 minutes to just have a Q & A with me while I have the file open that would be most helpful.
I could come down to one of your desks with my laptop at a convenient time.

Let me know.
Thanks
Ben

MODEL_YEAR,MFR,MFR_CD,Represented Test Veh Make,Represented Test Veh Model,Test Vehicle ID,Test Veh Cnfg Num,Test Veh Displ (L),ACTUAL_TESTED_TESTGROUP,Vehicle Type,RATED_HP,NUM_CYLINDRS_ROTORS,ENGINE_CD,TESTED_TRANS_CD,TESTED_TRANS,# of Gears,TRANS_LOCKUP_YN,DRIVE_SYSTEM,DRIVE_SYSTEM_DESC,TOD_CD,TRANS_OVER_DRIVE,ETW,AXLE_RATIO,NV_RATIO,SIL_USAGE_CD,SIL_USAGE,TEST_NUMBER,Analytically Derived FE,TEST_PRC_CD,TEST_PROCEDURE,TEST_FUEL_CD,TEST_FUEL,TEST_CATEGORY,THC,CO,CO2,NOx,PM,CH4,N2O,RND_ADJ_FE,FE_UNIT,FE Bag 1,FE Bag 2,FE Bag 3,FE Bag 4,Target Coef A (lbf),Target Coef B (lbf/mph),Target Coef C (lbf/mph**2),Set Coef A (lbf),Set Coef B (lbf/mph),Set Coef C (lbf/mph**2),ATD_CODE,AFTERTREATMENT_DEVICE,POLICE_EMERG_VEH_YN,AVG_GRP_IND,AVG_WEIGHT_FACTOR,AVG_METHOD_CD,AVERAGING_METHOD

2013,aston martin,ASX,Aston Martin,DB9,143TT1042,0,5.9,DASXV05.9VH1,Car,510,12,AM11/,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.46,31,1,Not eqipped,DASX10022045,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0251,0.12,550.27,0.02,,0.0033,0.0024,16.1,MPG,15.803,15.157,18.626,,43.17,0.7502,0.0163,8.35,0.299,0.0192,TWC,Three-way catalyst,N,,,N,No averaging

2013,aston martin,ASX,Aston Martin,DB9,143TT1042,0,5.9,DASXV05.9VH1,Car,510,12,AM11/,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.46,31,1,Not eqipped,DASX10022046,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022,0.0118,343.88,0.0067,,,,25.8,MPG,,,,,43.17,0.7502,0.0163,8.35,0.299,0.0192,TWC,Three-way catalyst,N,,,N,No averaging

2013,aston martin,ASX,Aston Martin,V8 VANTAGE,210TT241,0,4.7,BASXV04.7VH2,Car,420,8,AM14/,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.91,38.6,1,Not eqipped,BASX10011043,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0358,0.7897,551.4037,0.0272,,,,16,MPG,16.307,14.527,19.508,,45.78,0.0008,0.0217,22.05,0.4056,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,aston martin,ASX,Aston Martin,V8 VANTAGE,210TT241,0,4.7,BASXV04.7VH2,Car,420,8,AM14/,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.91,38.6,1,Not eqipped,BASX10011044,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0079,0.3147,333.29,0.054,,,,26.5,MPG,,,,,45.78,0.0008,0.0217,22.05,0.4056,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,aston martin,ASX,Aston Martin,V8 VANTAGE S,270TT244,0,4.7,BASXV04.7VH2,Car,430,8,AM15/,AM,Automated Manual,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,4.18,36.2,1,Not eqipped,BASX10011714,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02898,0.64907,529.36,0.00786,,0.0038,0.0038,16.7,MPG,17.072,15.249,19.85,,45.78,0.0008,0.0217,22.05,0.4056,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,aston martin,ASX,Aston Martin,V8 VANTAGE S,270TT244,0,4.7,BASXV04.7VH2,Car,430,8,AM15/,AM,Automated Manual,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,4.18,36.2,1,Not eqipped,BASX10011715,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00034,0.1417,306.95,0.00002,,,,28.8,MPG,,,,,45.78,0.0008,0.0217,22.05,0.4056,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AAF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.06,40.7,1,Not eqipped,8ADX01079535,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1621,2.41,366,0.027,,,,24,MPG,21.2,23.5,27.8,,32,0.27,0.02,16,0.13,0.0201,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AAF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.06,40.7,1,Not eqipped,8ADX01079536,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.011,0.45,232,0.015,,0.0032,0.01,38.2,MPG,,,,,32,0.27,0.02,16,0.13,0.0201,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AAF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.06,40.7,1,Not eqipped,8ADX01079545,No,95,SC03,61,Tier 2 Cert

Gasoline,SC03,0.0022,0.71,428,0.011,,,,20.7,MPG,,,,,32,0.27,0.02,16,0.13,0.0201,,,N,,,N
,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AAF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3750,4.06,40.7,1,Not
eqipped,8ADX01079553,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.001,1.01,332,0.01,,,,26.6,MPG,18.8,30.3,,,32,0.27,0.02,16,0.13,0.0201,,
,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AAF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3750,4.06,40.7,1,Not
eqipped,8ADX01079736,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0064,0.57,333,0.009,,0.0025,0.01,26.6,MPG,25.5,25.5,29.9,,32,0.27,0.02,1
6,0.13,0.0201,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,3.94,40.4,1,Not
eqipped,8ADX01079561,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0011,1.14,311,0.013,,,,28.4,MPG,19.4,32.8,,,31,0.15,0.02,13,0.03,0.02,,
,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,3.94,40.4,1,Not
eqipped,8ADX01079562,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1139,1.45,379,0.021,,,,23.3,MPG,22,22.1,27.3,,31,0.15,0.02,13,0.03,0.02,,,N,,,
N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,3.94,40.4,1,Not
eqipped,8ADX01079564,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0048,1.33,431,0.014,,,,20.5,MPG,,,,,31,0.15,0.02,13,0.03,0.02,,,N,,,N,N
o averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,3.94,40.4,1,Not
eqipped,8ADX01079575,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0047,0.63,350,0.0095,,0.0017,0.01,25.3,MPG,25.3,23.8,28.9,,31,0.15,0.02,
13,0.03,0.02,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,0,1.984,8ADXV02.03PA,Car,200,,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,3.94,40.4,1,Not
eqipped,8ADX01079576,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.24,220,0.0015,,0.0003,0.01,40.3,MPG,,,,,31,0.15,0.02,13,0.03,0.02,
,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,3,1.984,AADXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079560,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0014,1.31,303,0.019,,,,29.1,MPG,19.9,33.6,,,30,0.2,0.0186,14,0.02,0.018
9,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,3,1.984,AADXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079565,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0037,0.57,420,0.011,,,,21.1,MPG,,,,,30,0.2,0.0186,14,0.02,0.0189,TWC,Th
ree-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,3,1.984,AADXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079570,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1112,1.62,387,0.025,,,,22.8,MPG,21.9,21.9,27,,30,0.2,0.0186,14,0.02,0.0189,TWC
,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,3,1.984,AADXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079573,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0056,0.6281,345,0.0099,,0,0.01,25.7,MPG,25.3,24.2,29.4,,30,0.2,0.0186,14
,0.02,0.0189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83PA-AMF,3,1.984,AADXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-

Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079574,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0015,0.19,217,0.003,,0.0006,0.01,40.9,MPG,,,,,30,0.2,0.0186,14,0.02,0.01
89,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83UA-AMF,3,1.984,AADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079442,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0294,0.52,336,0.013,,0.0033,0.01,26.4,MPG,26.3,24.8,30.2,,30,0.2,0.0186,
12,0.04,0.0186,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83UA-AMF,3,1.984,AADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079443,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0011,0.15,214,0.003,,0.0004,0.01,41.5,MPG,,,,,30,0.2,0.0186,12,0.04,0.01
86,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83UA-AMF,3,1.984,AADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079471,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0076,0.5,412,0.013,,,,21.5,MPG,,,,,30,0.2,0.0186,12,0.04,0.0186,,,N,,,N
,No averaging

2013,Audi,ADX,AUDI,A3,83UA-AMF,3,1.984,AADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079475,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0151,0.958,302,0.0298,,,,29.3,MPG,20,33.9,,,30,0.2,0.0186,12,0.04,0.018
6,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3,83UA-AMF,3,1.984,AADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,3.09,40.4,1,Not
eqipped,8ADX01079480,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1309,1.37,377,0.021,,,,23.4,MPG,22,22.3,27.7,,30,0.2,0.0186,12,0.04,0.0186,,,N
,,,N,No averaging

2013,Audi,ADX,AUDI,A3 QUATTRO,93UA-
AAQ,0,1.984,9ADXV02.03UA,Car,200,,CCTA,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,4.06,40.6,1,Not eqipped,9ADX01085181,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0055,0.23,239,0.003,,0.00237,0.01,37.1,MPG,,,,,34,0.35,0.0178,11,0.14,0.
0182,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3 QUATTRO,93UA-
AAQ,0,1.984,9ADXV02.03UA,Car,200,,CCTA,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,4.06,40.6,1,Not eqipped,9ADX01085182,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0111,0.81,331,0.015,,,,26.8,MPG,13.3,30.7,,,34,0.35,0.0178,11,0.14,0.01
82,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3 QUATTRO,93UA-
AAQ,0,1.984,9ADXV02.03UA,Car,200,,CCTA,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,4.06,40.6,1,Not eqipped,9ADX01085183,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.1699,2.02,376,0.024,,,,23.4,MPG,21.1,22.9,26.7,,34,0.35,0.0178,11,0.14,0.0182,
,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A3 QUATTRO,93UA-
AAQ,0,1.984,9ADXV02.03UA,Car,200,,CCTA,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,4.06,40.6,1,Not eqipped,9ADX01085184,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.009,0.6,396,0.006,,,,22.4,MPG,,,,,34,0.35,0.0178,11,0.14,0.0182,,,N,,,N
,No averaging

2013,Audi,ADX,AUDI,A3 QUATTRO,93UA-
AAQ,0,1.984,9ADXV02.03UA,Car,200,,CCTA,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,4.06,40.6,1,Not eqipped,9ADX01085905,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0323,0.72,325,0.012,,0.0052,0.01,27.2,MPG,25.7,26.8,29.4,,34,0.35,0.0178
,11,0.14,0.0182,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3875,4.61,23.3,1,Not eqipped,DADX10020133,No,90,US06,61,Tier 2 Cert

Gasoline,US06,0.0133,0.92,325,0.03,,0.0044,,27.2,MPG,16.9,33.1,,,36.644,0.24235,0.01734
4,-1.102,0.28735,0.015772,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3875,4.61,23.3,1,Not eqipped,DADX10020134,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0144,1.13,355,0.074,,0.0059,,24.9,MPG,,,,,36.644,0.24235,0.017344,-
1.102,0.28735,0.015772,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3875,4.61,23.3,1,Not eqipped,DADX10020135,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.1944,1.52,334,0.037,,0.0196,,26.4,MPG,23,26.2,30.3,,40.308,0.26659,0.019078,-
0.991,0.01907,0.01735,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3875,4.61,23.3,1,Not eqipped,DADX10020464,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0221,0.67,292,0.025,,0.0052,0.01,30.3,MPG,28.7,30,32.2,,36.644,0.24235,0
.017344,-1.102,0.28735,0.015772,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3875,4.61,23.3,1,Not eqipped,DADX10020465,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0109,0.14,199,0.006,,0.0041,0.01,44.6,MPG,,,,,36.644,0.24235,0.017344,-
1.102,0.28735,0.015772,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,1,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,4250,4.61,23.3,1,Not eqipped,DADX10020136,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0273,1.17,371,0.037,,0.0086,,23.8,MPG,,,,,40.466,0.23512,0.018508,4.181
,0.26044,0.017286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,1,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,4250,4.61,23.3,1,Not eqipped,DADX10020137,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.2503,2.15,356,0.044,,0.0279,,24.7,MPG,21.8,24.5,28,,44.512,0.25863,0.020358,4.
6,0.02035,0.019014,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,1,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,4250,4.61,23.3,1,Not eqipped,DADX10020143,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0162,1.89,344,0.042,,0.0057,,25.6,MPG,16.1,30.8,,,40.466,0.23512,0.0185
08,4.181,0.26044,0.017286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,1,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,4250,4.61,23.3,1,Not eqipped,DADX10020466,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0236,0.6,309,0.031,,0.0055,0.01,28.7,MPG,26.9,28.3,30.9,,40.466,0.23512,
0.018508,4.181,0.26044,0.017286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BAF,1,1.984,DADXV02.03UB,Car,211,4,CAEB,SCV,Selectable
Continuously Variable (e.g. CVT with paddles),1,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,4250,4.61,23.3,1,Not eqipped,DADX10020467,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0091,0.11,206,0.006,,0.0034,0.01,43.1,MPG,,,,,40.466,0.23512,0.018508,4.
181,0.26044,0.017286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All
Wheel Drive,2,Top gear ration < 1,4000,3.69,31.2,2,"Equipped, not shifted by
SIL",DADX10020117,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0163,0.88,308,0.027,,0.0056,,28.7,MPG,17.9,34.7,,,36.194,0.32916,0.0176
35,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All
Wheel Drive,2,Top gear ration < 1,4000,3.69,31.2,2,"Equipped, not shifted by
SIL",DADX10020118,No,95,SC03,61,Tier 2 Cert

Gasoline,SC03,0.008,0.59,374,0.029,,0.004,,23.7,MPG,,,,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020119,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1293,2.19,365,0.026,,0.0146,,24.1,MPG,21.8,23.3,28.1,,39.814,0.36208,0.019398,4.328,0.01939,0.021447,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020475,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0234,1.03,323,0.019,,0.0051,0.01,27.4,MPG,26.2,26.5,30.4,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020476,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0096,0.12,203,0.004,,0.004,0.01,43.7,MPG,,,,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,1,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020120,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01,0.84,368,0.016,,,,24.1,MPG,,,,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,1,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020121,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1815,3.02,363,0.034,,0.0197,,24.1,MPG,22.2,23.2,28.2,,39.814,0.36208,0.019398,4.328,0.01939,0.021447,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,1,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020124,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0216,0.78,301,0.027,,0.007,,29.4,MPG,18.9,34.9,,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,1,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020477,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0233,0.73,314,0.018,,0.0048,0.01,28.2,MPG,26.5,27.4,31.4,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4,D3UB-BMQ,1,1.984,DADXV02.03UB,Car,211,4,CAEB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.69,31.2,2,"Equipped, not shifted by SIL",DADX10020478,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0091,0.13,200,0.004,,0.0041,0.01,44.4,MPG,,,,,36.194,0.32916,0.017635,3.934,-0.045,0.019497,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4 Allroad,DFUB-BAA,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10020434,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0165,0.36,352,0.03,,0.0031,0.01,25.2,MPG,23.9,24.5,27.8,,39.117,0.46662,0.019788,2.54,0.46336,0.019206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4 Allroad,DFUB-BAA,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10020437,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0084,0.16,238,0.006,,0.0038,0.01,37.3,MPG,,,,,39.117,0.46662,0.019788,2.54,0.46336,0.019206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4 Allroad,DFUB-BAA,1,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10022269,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0033,0.102,242,0.0032,0,0.0029,0.01,25.6,MPG,,,,,39.117,0.46662,0.019788,2.54,0.46336,0.019206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A4 Allroad,DFUB-BAA,1,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-

Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10022395,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0158,0.188,363,0.0213,0,0.0054,0.01,17.1,MPG,16,16.6,19,,39.117,0.46662,0.019788,2.54,0.46336,0.019206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10020086,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0155,0.36,324,0.017,,0.0054,,27.4,MPG,17.3,32.8,,,36.869,0.44491,0.017402,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10020087,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1391,1.38,414,0.04,,0.0136,,21.3,MPG,17.7,21.1,26,,40.556,0.4894,0.019142,0.099,0.01914,0.017093,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10020088,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0174,0.41,399,0.032,,0.0066,,22.2,MPG,,,,,36.869,0.44491,0.017402,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10020489,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0213,0.55,343,0.018,,0.0044,0.01,25.9,MPG,24.9,24.8,29.1,,36.869,0.44491,0.017402,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,0,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10020490,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0091,0.15,218,0.008,,0.004,0.01,40.7,MPG,,,,,36.869,0.44491,0.017402,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,1,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10020091,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.023,1.19,343,0.03,0,0.0082,,25.8,MPG,16.1,31,,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,1,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10020092,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1429,1.28,421,0.041,,0.0162,,21,MPG,17.5,21,24.8,,44.018,0.51328,0.02023,3.759,0.02023,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,1,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10020093,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0169,0.41,399,0.037,0,0.0066,,22.2,MPG,,,,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,1,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10020491,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0297,0.63,353,0.021,,0.005,0.01,25.1,MPG,24.1,24.2,28,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,1,1.984,DADXV02.03UB,Car,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10020492,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0085,0.17,224,0.007,,0.0036,0.01,39.6,MPG,,,,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,2,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10022272,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0007,0.143,215,0.0036,,0.0004,0.01,28.8,MPG,,,,,36.869,0.44491,0.017402

,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,2,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,2.85,26,1,Not eqipped,DADX10022273,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0129,0.268,346,0.0301,,0.0043,0.01,17.9,MPG,16.7,17.4,20,,36.869,0.44491,0.017402,0.09,0.52811,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,3,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10022274,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0007,0.121,220,0.0018,,0.0004,0.01,28.1,MPG,,,,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A5,DFUB-BAQ,3,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,26,1,Not eqipped,DADX10022275,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.015,0.272,355,0.0137,,0.0054,0.01,17.4,MPG,16.3,17,19.5,,40.016,0.46662,0.018391,3.417,0.51364,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,C3UB-CAF,0,1.984,CADXJ02.03UB,Both,211,4,CAEB,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.09,24.1,1,Not eqipped,CADX10012504,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0185,1.08,309,0.024,,,,28.6,MPG,17.5,34.9,,,36.194,0.15554,0.016704,2.338,0.28214,0.014783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,C3UB-CAF,0,1.984,CADXJ02.03UB,Both,211,4,CAEB,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.09,24.1,1,Not eqipped,CADX10012505,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0155,0.48,338,0.014,,,,26.2,MPG,,,,,36.194,0.15554,0.016704,2.338,0.28214,0.014783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,C3UB-CAF,0,1.984,CADXJ02.03UB,Both,211,4,CAEB,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.09,24.1,1,Not eqipped,CADX10012506,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1912,1.24,332,0.04,,,,26.6,MPG,23.1,26.3,30.6,,39.814,0.17109,0.018374,2.572,0.31035,0.016261,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,C3UB-CAF,0,1.984,CADXJ02.03UB,Both,211,4,CAEB,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.09,24.1,1,Not eqipped,CADX10012730,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0282,0.67,282,0.012,0.001,0.00608,0.01,31.4,MPG,29.5,31,33.9,,36.194,0.15554,0.016704,2.338,0.28214,0.014783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,C3UB-CAF,0,1.984,CADXJ02.03UB,Both,211,4,CAEB,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.09,24.1,1,Not eqipped,CADX10012731,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0105,0.19,189,0.003,,0.00445,0.01,46.9,MPG,,,,,36.194,0.15554,0.016704,2.338,0.28214,0.014783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,24.6,1,Not eqipped,DADX10021356,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0206,0.4,374,0.017,0.005,0.0047,0.01,23.7,MPG,21.7,23.3,26.3,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.85,24.6,1,Not eqipped,DADX10021100,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0181,0.33,393,0.02,0.004,0.0039,0.01,22.6,MPG,21.6,21.7,25.6,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top

gear ration < 1,4250,2.85,24.6,1,Not eqipped,DADX10021357,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0168,0.22,233,0.007,,0.0046,0.01,38.1,MPG,,,,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,2,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021108,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.047,1.2,362,0.014,,0.0081,,24.4,MPG,14.8,29.9,,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,2,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021328,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0205,0.53,379,0.017,0.004,0.0052,0.01,23.4,MPG,21.3,23.5,25.6,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,3,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021111,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3342,1.53,488,0.032,,0.0268,,18.1,MPG,14.6,18,23.3,,39.319,0.47349,0.019206,-12.859,0.0192,0.016069,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,3,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021112,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0071,0.04,448,0.017,,0.0016,,19.8,MPG,,,,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,3,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021115,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0467,1.46,363,0.015,,0.0077,,24.3,MPG,14.6,30,,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,3,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021326,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.018,0.35,391,0.019,0.004,0.0044,0.01,22.7,MPG,21.5,22.1,24.9,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6,D3UF-CAQ,3,2.995,DADXJ03.03UF,Both,333,6,CTUA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.85,24.6,1,Not eqipped,DADX10021327,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0197,0.28,236,0.007,,0.005,0.01,37.6,MPG,,,,,35.745,0.43044,0.01746,-11.69,0.42321,0.014608,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A6 quattro,D3UB-CAQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10020969,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0039,1.28,422,0.021,,0.0017,,21,MPG,,,,,34.396,0.43044,0.01746,-10.341,0.30023,0.016471,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6 quattro,D3UB-CAQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10020972,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0399,1.63,343,0.012,,0.016,,25.7,MPG,15.9,31.2,,,34.396,0.43044,0.01746,-10.341,0.30023,0.016471,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6 quattro,D3UB-CAQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SA,Semi-

Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10020974,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1126,1.15,429,0.025,,0.0095,,20.6,MPG,16.9,20.9,24.9,,37.835,0.47349,0.019206,-9.307,0.0192,0.018118,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6 quattro,D3UB-CAQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10021191,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0243,0.71,358,0.012,,0.0037,0.01,24.8,MPG,23.7,24,27.5,,34.396,0.43044,0.01746,-10.341,0.30023,0.016471,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A6 quattro,D3UB-CAQ,0,1.984,DADXV02.03UB,Car,211,4,CAEB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.08,26.9,1,Not eqipped,DADX10021192,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0099,0.17,219,0.002,,0.0044,0.01,40.5,MPG,,,,,34.396,0.43044,0.01746,-10.341,0.30023,0.016471,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019929,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0096,0.08,242,0.007,,0.003,0.01,36.7,MPG,,,,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019930,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0529,1.33,363,0.017,,0.0094,0.01,24.3,MPG,14.5,30.2,,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019931,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0255,0.68,462,0.026,,0.004,0.01,19.2,MPG,,,,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019932,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2552,1.48,457,0.023,,0.0207,0.01,19.3,MPG,16,18.9,24.1,,45.007,0.27932,0.019334,9.125,0.01933,0.016581,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,0,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX91001359,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0231445,0.4470358,411.5384403,0.0189619,,0.0051255,0.01,21.6,MPG,20.1710251,20.7961842,24.6965666,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019937,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.007,0.06,243,0.007,,0.0022,0.01,36.6,MPG,,,,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019938,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0412,0.93,365,0.016,,0.0068,0.01,24.3,MPG,14.4,30.1,,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019939,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0168,0.32,461,0.025,,0.0028,0.01,19.3,MPG,,,,,40.915,0.25393,0.017577,8

.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10019940,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2487,1.15,459,0.026,,0.018,0.01,19.3,MPG,16.1,18.8,24,,45.007,0.27932,0.019334,9.125,0.01933,0.016581,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UF-DAQ,1,2.995,DADXJ03.03UF,Both,333,6,CTUB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX91001361,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0219759,0.4215466,431.383864,0.02018,,0.0053101,0.01,20.6,MPG,19.5048558,19.637869,23.839278,,40.915,0.25393,0.017577,8.295,0.3364,0.015074,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10021912,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0175,0.083,356,0.0081,,0.0078,,25,MPG,15.2,30.7,,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10021913,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0026,0.005,435,0.012,,0.0019,,20.5,MPG,,,,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10021914,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2602,2.373,526,0.0171,,0.0375,,16.9,MPG,13.2,17,21.1,,51.436,0.43768,0.017414,-1.821,0.28175,0.015749,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10021916,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0195,0.08,351,0.0095,,0.0082,,25.4,MPG,15.5,31,,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10022148,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0198,0.349,419,0.0177,0.003,0.0064,0.01,21.3,MPG,19.9,20.2,25,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10022149,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0198,0.331,400,0.0181,0.002,0.0064,0.01,22.3,MPG,20.8,22,24.1,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8,D3UJ-DAQ,1,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,26.8,1,Not eqipped,DADX10022150,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0094,0.056,234,0.0029,0.001,0.0042,0.01,38.1,MPG,,,,,46.76,0.39789,0.015831,-2.023,0.25613,0.014317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX10020045,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.003,0.001,483,0.01,,0.0015,,18.4,MPG,,,,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX10020049,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1363,1.152,532,0.095,,0.0208,,16.8,MPG,13.5,16.7,20.8,,52.92,0.43768,0.017414,-1.234,0.01741,0.016069,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX10021909,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0173,0.085,363,0.0072,,0.007,,24.6,MPG,15,29.9,,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX10022147,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0221,0.413,419,0.0187,0.004,0.007,0.01,21.3,MPG,20,21,22.9,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX91001363,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0103626,0.0969312,415.2721012,0.009836,,0.0047556,0.01,21.4,MPG,12.7016912,26.5965559,,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX91001370,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0337298,0.922607,475.9501384,0.0107718,0.0025974,0.0108213,0.01,18.6,MPG,18.0195067,17.5371326,21.8277048,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,A8L,D3UJ-DAQ,0,3.993,DADXV04.03UJ,Car,420,8,CEU,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.8,1,Not eqipped,DADX91001371,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0124463,0.0870118,262.2989902,0.0033681,,0.0056753,0.01,34,MPG,,,,,48.109,0.39789,0.015831,-1.371,0.21696,0.014608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,0,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022555,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0368,1.15,387,0.016,,0.0068,,22.9,MPG,14.5,27.5,,,50.582,0.18448,0.023222,9.667,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,0,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022712,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0227,0.55,384,0.022,,0.0045,0.01,23.2,MPG,21.3,22.9,25.3,,50.582,0.18448,0.023222,9.667,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,1,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022562,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.329,1.52,475,0.029,,0.0271,,18.6,MPG,15,18.6,22.5,,55.64,0.20292,0.025544,10.633,0.21088,0.02356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,1,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022565,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0399,1.36,388,0.017,,0.0078,,22.9,MPG,14.1,27.9,,,50.582,0.18448,0.023222,9.667,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,1,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022566,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0159,0.3,464,0.022,,0.0018,,19.2,MPG,,,,,50.582,0.18448,0.023222,9.667,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-Q5A,1,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022713,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0255,0.67,396,0.019,,0.0051,0.01,22.5,MPG,21.2,22.1,24.2,,50.582,0.18448,0.023222,9.667,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,D3UF-
Q5A,1,2.995,DADXJ03.03UF,Both,272,6,CTUC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.2,25.7,1,Not eqipped,DADX10022714,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0272,0.3,251,0.007,,0.0079,0.01,35.5,MPG,,,,,50.582,0.18448,0.023222,9.6
67,0.19171,0.021418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,0,1.984,DADXT02.04UB,Truck,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10021369,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0125,0.68,373,0.02,,0.0044,,23.8,MPG,,,,,35.969,0.49555,0.020079,-
15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,0,1.984,DADXT02.04UB,Truck,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10021370,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1263,0.86,452,0.048,,0.0134,,19.6,MPG,15.2,20.3,23.8,,39.566,0.54511,0.022087,
-13.961,0.02208,0.020487,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,0,1.984,DADXT02.04UB,Truck,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10021372,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0136,0.71,355,0.03,0,0.005,,25,MPG,15.4,30.3,,,35.969,0.49555,0.020079,
-15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,0,1.984,DADXT02.04UB,Truck,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10021373,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0254,0.46,358,0.026,0.003,0.0036,0.01,24.8,MPG,23.8,24.5,26.3,,35.969,0.
49555,0.020079,-15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,0,1.984,DADXT02.04UB,Truck,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10021451,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0073,0.11,230,0.006,,0.003,0.01,38.6,MPG,,,,,35.969,0.49555,0.020079,-
15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,1,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10022545,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0028,0.13,229,0.0034,,0.003,0.01,27.1,MPG,,,,,35.969,0.49555,0.020079,-
15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5,DFUB-Q5A,1,1.984,DADXJ02.0FUB,Both,211,4,CPMA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.76,30.3,1,Not
eqipped,DADX10022548,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0139,0.163,357,0.0279,0,0.0061,0.01,17.4,MPG,16.3,16.8,19.6,,35.969,0.4
9555,0.020079,-15.512,0.25682,0.018624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5 Hybrid,DHUB-Q5H,0,1.984,DADXT02.0HUB,Truck,211,4,CHJA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.76,30.3,1,Not
eqipped,DADX10021667,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0197,1.15,323,0.022,0.004,0.0084,,27.5,MPG,18.3,32.1,,,47.21,-
0.217,0.027063,-2.473,-0.2242,0.025143,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5 Hybrid,DHUB-Q5H,0,1.984,DADXT02.0HUB,Truck,211,4,CHJA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.76,30.3,1,Not
eqipped,DADX10021669,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0111,0.573,324,0.011,,0.0026,,27.5,MPG,,,,,47.21,-0.217,0.027063,-
2.473,-0.2242,0.025143,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5 Hybrid,DHUB-Q5H,0,1.984,DADXT02.0HUB,Truck,211,4,CHJA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.76,30.3,1,Not
eqipped,DADX10021670,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2453,1.3,382,0.091,,0.0136,,23.1,MPG,21.2,22.5,26.4,,51.931,-0.1953,0.029769,-
2.226,0.02976,0.027657,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5 Hybrid,DHUB-Q5H,0,1.984,DADXT02.0HUB,Truck,211,4,CHJA,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.76,30.3,1,Not
eqipped,DADX10021823,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.032,0.93,292,0.027,0.005,0.0099,0.01,30.4,MPG,23.3,37.5,26.7,37.9,47.21,-0.217,0.027063,-2.473,-0.2242,0.025143,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q5 Hybrid,DHUB-Q5H,0,1.984,DADXT02.0HUB,Truck,211,4,CHJA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.76,30.3,1,Not eqipped,DADX10021824,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0303,0.46,223,0.008,,0.0095,0.01,39.9,MPG,,,,,47.21,-0.217,0.027063,-2.473,-0.2242,0.025143,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,BTLF-Q7A,0,2.995,BADXT03.0TLF,Truck,333,6,CJWB,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.7,30.1,1,Not eqipped,BADX10010026,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0249,0.28,468,0.028,0.003,0.003418,0.01,19,MPG,18.2,18.4,20.7,,45,0.434,0.0272,-7,0.145,0.0271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,BTLF-Q7A,0,2.995,BADXT03.0TLF,Truck,333,6,CJWB,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.7,30.1,1,Not eqipped,BADX10010027,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0344,0.7,300,0.007,,0.009745,0.01,29.5,MPG,,,,,45,0.434,0.0272,-7,0.145,0.0271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,BTLF-Q7A,1,2.995,BADXT03.0TLF,Truck,272,6,CJWC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.7,30.1,1,Not eqipped,BADX10010024,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0234,0.25,458,0.032,0.003,0.00351,0.01,19.4,MPG,18.4,18.8,21.3,,44,0.434,0.0272,-8,0.159,0.0269,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,BTLF-Q7A,1,2.995,BADXT03.0TLF,Truck,272,6,CJWC,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.7,30.1,1,Not eqipped,BADX10010025,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.033,0.61,295,0.006,,0.00944,0.01,30,MPG,,,,,44,0.434,0.0272,-8,0.159,0.0269,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020723,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0008,0.002,402,0.0896,0.002,0.0011,,25.3,MPG,16.9,29.6,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020723,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0008,0.002,402,0.0896,0.002,0.0011,,25.3,MPG,16.9,29.6,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020723,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0008,0.002,402,0.0896,0.002,0.0011,,25.3,MPG,16.9,29.6,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020724,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0145,0.111,502,0.455,,0.0061,,20.3,MPG,17.2,20,23.2,,49.458,0.47747,0.029898,-3.177,0.02989,0.03073,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020724,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0145,0.111,502,0.455,,0.0061,,20.3,MPG,17.2,20,23.2,,49.458,0.47747,0.029898,-3.177,0.02989,0.03073,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020724,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0145,0.111,502,0.455,,0.0061,,20.3,MPG,17.2,20,23.2,,49.458,0.47747,0.029898,-3.177,0.02989,0.03073,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020725,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0057,0,480,0.3031,0.002,0.0056,,21.2,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020725,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0057,0,480,0.3031,0.002,0.0056,,21.2,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020725,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0057,0,480,0.3031,0.002,0.0056,,21.2,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020827,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0381,0.21,446,0.03,0,0.0325,0.01,22.8,MPG,21.5,21.9,25.9,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020827,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0381,0.21,446,0.03,0,0.0325,0.01,22.8,MPG,21.5,21.9,25.9,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020827,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0381,0.21,446,0.03,0,0.0325,0.01,22.8,MPG,21.5,21.9,25.9,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020828,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0033,0,260,0.0299,0,0.0034,0.01,39.1,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020828,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0033,0,260,0.0299,0,0.0034,0.01,39.1,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,0,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.27,26.8,1,Not eqipped,DADX10020828,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0033,0,260,0.0299,0,0.0034,0.01,39.1,MPG,,,,,44.962,0.43406,0.02718,-3.53,0.07017,0.027936,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020726,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0039,0.002,432,0.2277,0.001,0.0049,,23.6,MPG,,,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020726,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0039,0.002,432,0.2277,0.001,0.0049,,23.6,MPG,,,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020726,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0039,0.002,432,0.2277,0.001,0.0049,,23.6,MPG,,,,,43.388,0.12298,0.027936,

-5.733,-0.2061,0.028402,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020727,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0217,0.169,492,0.192,,0.0186,,20.7,MPG,16.9,20.5,25.3,,47.727,0.13528,0.03073,-5.159,0.03073,0.031242,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020727,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0217,0.169,492,0.192,,0.0186,,20.7,MPG,16.9,20.5,25.3,,47.727,0.13528,0.03073,-5.159,0.03073,0.031242,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020727,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0217,0.169,492,0.192,,0.0186,,20.7,MPG,16.9,20.5,25.3,,47.727,0.13528,0.03073,-5.159,0.03073,0.031242,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020730,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0018,0.001,389,0.0643,0,0.0014,,26.2,MPG,17,31,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020730,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0018,0.001,389,0.0643,0,0.0014,,26.2,MPG,17,31,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020730,No,90,US06,19,Cert Diesel 7-15 ppm Sulfur,US06,0.0018,0.001,389,0.0643,0,0.0014,,26.2,MPG,17,31,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020835,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0346,0.19,422,0.0294,0.001,0.029,0.01,24.1,MPG,22.4,23.3,27.5,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020835,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0346,0.19,422,0.0294,0.001,0.029,0.01,24.1,MPG,22.4,23.3,27.5,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020835,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0346,0.19,422,0.0294,0.001,0.029,0.01,24.1,MPG,22.4,23.3,27.5,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020836,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0042,0.001,248,0.0281,0,0.0042,0.01,41,MPG,,,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,OC,Oxidation catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020836,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0042,0.001,248,0.0281,0,0.0042,0.01,41,MPG,,,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Audi,ADX,AUDI,Q7,D3UG-TAQ,1,2.967,DADXT03.03UG,Truck,240,6,CNRB,SA,Semi-

Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.27,26.8,1,Not eqipped,DADX10020836,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0042,0.001,248,0.0281,0,0.0042,0.01,41,MPG,,,,,43.388,0.12298,0.027936,-5.733,-0.2061,0.028402,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086291,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0472,0.34,552,0.038,,0.0106,0.01,16.1,MPG,15.72,14.77,19.65,,41.81,0.315,0.01688,11.17,-0.1085,0.01944,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086292,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.054,0.49,349,0.007,,0.0165,0.01,25.4,MPG,,,,,41.81,0.315,0.01688,11.17,-0.1085,0.01944,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086293,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0573,1.29,450,0.038,,,,19.6,MPG,14.69,21.71,,,41.81,0.315,0.01688,11.17,-0.1085,0.01944,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX10004204,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0247,0.78,605,0.041,,,,14.7,MPG,,,,,41.81,0.315,0.01688,11.17,-0.1085,0.01944,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX10004205,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.4837,1.78,607,0.038,,,,14.5,MPG,12.95,13.84,17.86,,41.81,0.315,0.01688,11.17,-0.1085,0.01944,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX01086294,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0398,0.33,556,0.031,,0.0095,0.01,16,MPG,15.64,14.7,19.32,,43.84,0.318,0.01752,8.61,-0.0633,0.01973,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX01086295,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0564,0.65,348,0.008,,0.0193,0.01,25.4,MPG,,,,,43.84,0.318,0.01752,8.61,-0.0633,0.01973,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX01086296,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0879,1.6,451,0.026,,,,19.6,MPG,14.53,21.73,,,43.84,0.318,0.01752,8.61,-0.0633,0.01973,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX10004206,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0247,0.78,605,0.041,,,,14.7,MPG,,,,,43.84,0.318,0.01752,8.61,-0.0633,0.01973,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RAQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX10004207,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.4837,1.78,607,0.038,,,,14.5,MPG,12.95,13.84,17.86,,43.84,0.318,0.01752,8.61,-0.0633,0.01973,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086243,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0545,0.28,635,0.029,,0.0104,0.01,14,MPG,14.12,12.87,16.68,,41.81,0.315,0.01688,15.67,0.0029,0.01833,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086244,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0237,0.58,370,0.005,,0.0101,0.01,24,MPG,,,,,41.81,0.315,0.01688,15.67,0.0029,0.01833,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX01086245,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0583,2.66,446,0.024,,,,19.8,MPG,14.38,22.16,,,41.81,0.315,0.01688,15.67,0.0029,0.01833,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX10004208,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0221,0.6,659,0.009,,,,13.5,MPG,,,,,41.81,0.315,0.01688,15.67,0.0029,0.01833,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,1,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,4.06,43,1,Not eqipped,9ADX10004209,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.4739,1.35,675,0.033,,,,13.1,MPG,11.84,12.34,16.2,,41.81,0.315,0.01688,15.67,0.0029,0.01833,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX01086248,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.072,2.59,453,0.026,,,,19.5,MPG,14.26,21.78,,,43.84,0.318,0.01752,16.66,-0.0998,0.02031,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX09010216,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0637845,1.0927967,391.0002335,0.0122024,,0.0206658,,22.6,MPG,,,,,43.84,0.318,0.01752,16.66,-0.0998,0.02031,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX09010217,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0502612,0.33147,680.8330507,0.0340052,,0.0102501,,13,MPG,12.9,12,15.7,,43.84,0.318,0.01752,16.66,-0.0998,0.02031,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX10004210,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0221,0.6,659,0.009,,,,13.5,MPG,,,,,43.84,0.318,0.01752,16.66,-0.0998,0.02031,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,R8,9LR8-RMQ,2,5.204,9ADXV05.2LR8,Car,560,,CEH,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,43,1,Not eqipped,9ADX10004211,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.4739,1.35,675,0.033,,,,13.1,MPG,11.84,12.34,16.2,,43.84,0.318,0.01752,16.66,-0.0998,0.02031,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,0,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.38,35.7,1,Not eqipped,DADX10020032,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.5835,2.3,541,0.018,,0.0414,0.01,16.4,MPG,14,16.1,19.7,,51.931,0.38197,0.022535,-13.94,0.02253,0.020423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,0,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.38,35.7,1,Not eqipped,DADX10020033,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0221,0.25,483,0.007,,0.0089,0.01,18.4,MPG,,,,,47.21,0.34725,0.020487,-15.489,0.27686,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,0,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.38,35.7,1,Not eqipped,DADX10020036,No,90,US06,61,Tier 2 Cert

Gasoline,US06,0.111,1.33,414,0.018,,0.0249,0.01,21.3,MPG,15.2,24.1,,,47.21,0.34725,0.02
0487,-15.489,0.27686,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,0,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,4.38,35.7,1,Not eqipped,DADX10020206,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0535,0.43,463,0.007,,0.0069,0.01,19.2,MPG,18.8,18.1,22,,47.21,0.34725,0.
020487,-15.489,0.27686,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,0,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,4.38,35.7,1,Not eqipped,DADX10020207,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0711,0.35,307,0.005,,0.0159,0.01,28.9,MPG,,,,47.21,0.34725,0.020487,-
15.489,0.27686,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,1,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,4.38,35.7,1,Not eqipped,DADX10020037,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0354,0.34,466,0.008,,0.0047,0.01,19.1,MPG,19.1,18,21.4,,46.086,0.34725,0
.017402,-13.758,0.19786,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,1,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,4.38,35.7,1,Not eqipped,DADX10020038,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0496,0.25,296,0.008,,0.0129,0.01,30,MPG,,,,46.086,0.34725,0.017402,-
13.758,0.19786,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,1,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,4.38,35.7,1,Not eqipped,DADX10020039,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0633,0.88,395,0.023,,0.0141,0.01,22.4,MPG,15.7,25.5,,,46.086,0.34725,0.
017402,-13.758,0.19786,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,1,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,4.38,35.7,1,Not eqipped,DADX10020040,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.6388,3.13,548,0.015,,0.047,0.01,16.1,MPG,13.9,15.7,19.5,,50.694,0.38197,0.0191
42,-12.382,0.01914,0.018438,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,RS5,D3UL-BSQ,1,4.163,DADXV04.23UL,Car,450,8,CFS,AMS,Automated
Manual- Selectable (e.g. Automated Manual with paddles),7,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,4.38,35.7,1,Not eqipped,DADX10020041,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0121,0.34,517,0.006,,0.0058,0.01,17.2,MPG,,,,46.086,0.34725,0.017402,-
13.758,0.19786,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.88,32.7,1,Not
eqipped,DADX10020012,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0156,0.3,396,0.02,0.003,0.0031,0.01,22.4,MPG,21.4,21.5,25.3,,41.59,0.347
25,0.01682,1.012,0.40512,0.015481,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.88,32.7,1,Not
eqipped,DADX10020013,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0072,0.09,248,0.006,,0.0028,0.01,35.8,MPG,,,,41.59,0.34725,0.01682,1.01
2,0.40512,0.015481,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.88,32.7,1,Not
eqipped,DADX10020014,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0328,0.9,356,0.014,,0.0054,0.01,24.9,MPG,15.3,30.2,,,41.59,0.34725,0.01
682,1.012,0.40512,0.015481,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.88,32.7,1,Not
eqipped,DADX10020015,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0086,0.06,448,0.019,,0.0013,0.01,19.8,MPG,,,,41.59,0.34725,0.01682,1.0

12,0.40512,0.015481,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.88,32.7,1,Not eqipped,DADX10020016,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2812,1.29,455,0.018,,0.0218,0.01,19.4,MPG,17.5,18.6,23.4,,45.749,0.38197,0.018502,1.113,0.0185,0.017029,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,1,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.88,32.7,1,Not eqipped,DADX10020019,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0331,0.93,376,0.015,,0.0051,0.01,23.5,MPG,14.7,28.3,,,45.636,0.34363,0.018741,5.283,0.20256,0.019439,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,1,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.88,32.7,1,Not eqipped,DADX10020020,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0123,0.13,460,0.019,,0.0018,0.01,19.3,MPG,,,,,45.636,0.34363,0.018741,5.283,0.20256,0.019439,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,1,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.88,32.7,1,Not eqipped,DADX10020021,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.357,1.7,472,0.021,,0.0269,0.01,18.7,MPG,16.5,18,22.5,,50.2,0.37799,0.020615,5.811,0.02061,0.021383,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,1,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.88,32.7,1,Not eqipped,DADX10020439,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0176,0.38,401,0.017,,0.0042,0.01,22.1,MPG,20.9,21.3,25.2,,45.636,0.34363,0.018741,5.283,0.20256,0.019439,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BAQ,1,2.995,DADXJ03.03UF,Both,333,6,CGXC,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.88,32.7,1,Not eqipped,DADX10020440,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0172,0.21,256,0.006,,0.0061,0.01,34.7,MPG,,,,,45.636,0.34363,0.018741,5.283,0.20256,0.019439,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BMQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.68,39.1,2,"Equipped, not shifted by SIL",DADX10020022,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0334,0.39,443,0.024,0.004,0.006,0.01,20,MPG,19.4,18.9,23.2,,40.915,0.31469,0.016995,20.008,-0.0144,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BMQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.68,39.1,2,"Equipped, not shifted by SIL",DADX10020023,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0148,0.21,266,0.006,,0.0059,0.01,33.4,MPG,,,,,40.915,0.31469,0.016995,20.008,-0.0144,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BMQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.68,39.1,2,"Equipped, not shifted by SIL",DADX10020024,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0247,0.24,363,0.03,,0.0061,0.01,24.5,MPG,16.4,28.4,,,40.915,0.31469,0.016995,20.008,-0.0144,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BMQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.68,39.1,2,"Equipped, not shifted by SIL",DADX10020025,No,11,Cold CO,61,Tier 2 Cert Gasoline,FTP,0.304,1.47,457,0.023,,0.0219,0.01,19.3,MPG,17.4,18.7,22.5,,45.007,0.34616,0.018694,22.009,0.01869,0.020038,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S5,D3UF-BMQ,0,2.995,DADXJ03.03UF,Both,333,6,CGXC,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.68,39.1,2,"Equipped, not shifted by SIL",DADX10020026,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0041,0.01,460,0.037,,0.0007,0.01,19.3,MPG,,,,,40.915,0.31469,0.016995,20.008,-0.0144,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,0,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not

eqipped,DADX10020050,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0063,0.007,484,0.013,,0.003,,18.4,MPG,,,,,44.962,0.36895,0.018217,-
9.442,-0.434,0.021825,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,0,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020052,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0119,0.076,276,0.003,,0.0053,0.01,32.2,MPG,,,,,44.962,0.36895,0.018217,-
9.442,-0.434,0.021825,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,0,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020054,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0271,0.23,375,0.007,,0.0114,,23.7,MPG,15.7,27.8,,,44.962,0.36895,0.0182
17,-9.442,-0.434,0.021825,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,0,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020055,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1146,1.063,531,0.071,,0.0201,,16.8,MPG,14.2,16.5,20.5,,49.458,0.40585,0.020038
,-8.498,0.02003,0.024008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,0,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020565,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0195,0.21,438,0.0297,,0.0061,0.01,20.3,MPG,19.4,19.7,22.3,,44.962,0.3689
5,0.018217,-9.442,-0.434,0.021825,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020056,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0042,0.01,491,0.009,,0.0018,,18.1,MPG,,,,,43.163,0.36172,0.017809,-
15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020057,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.1157,1.012,522,0.084,,0.0175,,17.1,MPG,14.4,16.8,20.5,,47.48,0.39789,0.01959,-
14.203,0.01959,0.016965,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020060,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.017,0.122,352,0.011,,0.0064,,25.2,MPG,16.1,30.2,,,43.163,0.36172,0.0178
09,-15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020566,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0166,0.248,424,0.0249,,0.0059,0.01,20.9,MPG,20,20.1,23.5,,43.163,0.36172
,0.017809,-15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020567,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0123,0.057,247,0.0034,,0.0058,0.01,36,MPG,,,,,43.163,0.36172,0.017809,-
15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020570,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0169,0.238,424,0.0236,,0.006,0.01,20.9,MPG,19.8,20.1,23.9,,43.163,0.3617
2,0.017809,-15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S7,D3UJ-S7Q,1,3.993,DADXV04.03UJ,Car,420,8,CEUB,AM,Automated
Manual,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.09,27.6,1,Not
eqipped,DADX10020571,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.013,0.068,241,0.0042,,0.0058,0.01,36.9,MPG,,,,,43.163,0.36172,0.017809,-
15.782,0.28648,0.015423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S8,D3UJ-S8Q,0,3.993,DADXV04.03UJ,Car,520,8,CGTA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.5,1,Not eqipped,DADX10019526,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1499,1.5,569,0.061,,0.0308,0.01,15.6,MPG,11.9,15.9,19.4,,52.178,0.43768,0.018054,-6.394,0.01805,0.015685,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S8,D3UJ-S8Q,0,3.993,DADXV04.03UJ,Car,520,8,CGTA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.5,1,Not eqipped,DADX10019528,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0244,0.22,394,0.013,,0.0111,0.01,22.5,MPG,13.4,27.9,,,47.435,0.39789,0.016413,-7.104,0.30305,0.014259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S8,D3UJ-S8Q,0,3.993,DADXV04.03UJ,Car,520,8,CGTA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.5,1,Not eqipped,DADX10019550,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0026,0,475,0.021,,0.0022,0.01,18.7,MPG,,,,,47.435,0.39789,0.016413,-7.104,0.30305,0.014259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S8,D3UJ-S8Q,0,3.993,DADXV04.03UJ,Car,520,8,CGTA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.5,1,Not eqipped,DADX10019664,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0218,0.26,468,0.032,,0.0066,0.01,19,MPG,17.6,18.3,21.9,,47.435,0.39789,0.016413,-7.104,0.30305,0.014259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,S8,D3UJ-S8Q,0,3.993,DADXV04.03UJ,Car,520,8,CGTA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.2,26.5,1,Not eqipped,DADX10019665,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0115,0.05,267,0.009,,0.0053,0.01,33.3,MPG,,,,,47.435,0.39789,0.016413,-7.104,0.30305,0.014259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,0,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,32.3,1,Not eqipped,BADX10011313,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2726,2.18,366,0.018,,,,24,MPG,20.3,23.7,28.5,,41,0.39,0.0194,3,0.119,0.0196,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,0,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,32.3,1,Not eqipped,BADX10011314,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0124,0.45,383,0.039,,,,23.1,MPG,,,,,37,0.354,0.0176,3,0.109,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,0,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,32.3,1,Not eqipped,BADX10011316,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0096,0.16,210,0.002,,0.0042,0.01,42.2,MPG,,,,,37,0.354,0.0176,3,0.109,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,0,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,32.3,1,Not eqipped,BADX10011317,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0213,0.39,311,0.027,,,,28.5,MPG,19.1,33.2,,,37,0.354,0.0176,3,0.109,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,0,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,32.3,1,Not eqipped,BADX10011500,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0245,0.4,312,0.014,,0.00547,0.01,28.4,MPG,27.3,27.4,31.4,,37,0.354,0.0176,3,0.109,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,1,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.44,32.3,1,Not eqipped,BADX10011318,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2576,2.13,365,0.023,,,,24.1,MPG,20.4,23.8,28.6,,39,0.39,0.0184,1,0.092,0.0186,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,1,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.44,32.3,1,Not eqipped,BADX10011319,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0086,0.33,381,0.037,,,,23.3,MPG,,,,,36,0.354,0.0167,1,0.083,0.0169,TWC,

Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,1,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.44,32.3,1,Not eqipped,BADX10011320,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.016,0.35,306,0.014,0.001,0.00451,0.01,29,MPG,28.2,27.5,33,,36,0.354,0.0167,1,0.083,0.0169,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,1,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.44,32.3,1,Not eqipped,BADX10011321,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0041,0.14,204,0.001,,0.00237,0.01,43.5,MPG,,,,,36,0.354,0.0167,1,0.083,0.0169,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT Coupe,B3UA-TAQ,1,1.984,BADXV02.03UA,Car,211,4,CETA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.44,32.3,1,Not eqipped,BADX10011322,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0197,0.27,294,0.022,,,,30.2,MPG,20.2,35.1,,,36,0.354,0.0167,1,0.083,0.0169,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,0,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,41,1,Not eqipped,9ADX01087338,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2841,2,378,0.043,,,,23.3,MPG,20.1,23,26.9,,37,0.35,0.0164,14,0.14,0.0169,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,0,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,41,1,Not eqipped,9ADX01087340,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0107,0.4,428,0.013,,,,20.7,MPG,,,,,37,0.35,0.0164,14,0.14,0.0169,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,0,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,41,1,Not eqipped,9ADX01087346,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0131,0.5,323,0.033,,,,27.4,MPG,13.9,31.1,,,37,0.35,0.0164,14,0.14,0.0169,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,0,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,41,1,Not eqipped,9ADX09010296,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0281455,0.3680019,343.6856853,0.0215097,,0.0052218,,25.8,MPG,24.15,25.15,28.8,,37,0.35,0.0164,14,0.14,0.0169,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,0,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.44,41,1,Not eqipped,9ADX09010297,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0234126,0.1725838,238.4265059,0.0038469,,0.0037634,,37.3,MPG,,,,,37,0.35,0.0164,14,0.14,0.0169,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,1,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.44,41,1,Not eqipped,9ADX01087337,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2724,2.07,380,0.036,,,,23.1,MPG,20.1,22.9,26.8,,38,0.35,0.0174,16,0.13,0.0181,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,1,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.44,41,1,Not eqipped,9ADX01087339,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0104,0.61,421,0.013,,,,21,MPG,,,,,38,0.35,0.0174,16,0.13,0.0181,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-TTS,1,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.44,41,1,Not eqipped,9ADX01087342,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0153,0.16,238,0.005,,0.00427,0.01,37.3,MPG,,,,,38,0.35,0.0174,16,0.13,0.0181,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-
TTS,1,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.44,41,1,Not eqipped,9ADX01087343,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0161,0.51,333,0.017,,,,26.6,MPG,13.4,30.28,,,38,0.35,0.0174,16,0.13,0.0181,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TT COUPE QUATTRO,93UA-
TTS,1,1.984,9ADXV02.03UA,Car,265,,CDMA,SA,Semi-Automatic,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.44,41,1,Not eqipped,9ADX01087608,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.029,0.39,338,0.016,,0.0041,0.01,26.1,MPG,24.4,25.7,28.4,,38,0.35,0.0174,16,0.13,0.0181,,,N,,,N,No averaging

2013,Audi,ADX,AUDI,TTRS,C3UK-AMQ,0,2.48,CADXV02.53UK,Car,360,5,CEPB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,2.91,38.1,1,Not eqipped,CADX10014627,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0064,0.2,484,0.011,,,,18.3,MPG,,,,,39.342,0.28937,0.020196,17.49,0.02662,0.021534,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TTRS,C3UK-AMQ,0,2.48,CADXV02.53UK,Car,360,5,CEPB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,2.91,38.1,1,Not eqipped,CADX10014631,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3331,2.89,426,0.01,,,,20.7,MPG,18.1,20,24.7,,43.276,0.31831,0.022215,19.239,0.02928,0.023688,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TTRS,C3UK-AMQ,0,2.48,CADXV02.53UK,Car,360,5,CEPB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,2.91,38.1,1,Not eqipped,CADX91000950,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0276148,1.2427053,366.8028954,0.0524142,,0.0064828,,24.1,MPG,16.9726726,27.439235,,,39.342,0.28937,0.020196,17.49,0.02662,0.021534,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TTRS,C3UK-AMQ,0,2.48,CADXV02.53UK,Car,360,5,CEPB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,2.91,38.1,1,Not eqipped,CADX91000951,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0301504,0.6216806,258.5292488,0.0030685,0.0038707,0.0068854,0.01,34.2,MPG,,,,,39.342,0.28937,0.020196,17.49,0.02662,0.021534,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,AUDI,TTRS,C3UK-AMQ,0,2.48,CADXV02.53UK,Car,360,5,CEPB,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,2.91,38.1,1,Not eqipped,CADX91000988,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0229602,0.3238331,419.3525684,0.0255035,0.0033005,0.0028803,0.01,21.2,MPG,20.8663887,19.8866542,24.5770569,,39.342,0.28937,0.020196,17.49,0.02662,0.021534,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,0,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,23.4,1,Not eqipped,DADX10019536,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3112,3.57,632,0.04,,0.0513,0.01,14,MPG,11.2,13.9,17.2,,60.339,0.05372,0.024328,-6.825,0.02432,0.021255,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,0,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,23.4,1,Not eqipped,DADX10019540,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0119,0.17,421,0.009,,0.005,0.01,21.2,MPG,12.4,26.5,,,54.853,0.04883,0.022116,-6.205,-0.0803,0.019323,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,0,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,23.4,1,Not eqipped,DADX10019541,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0031,0.03,556,0.02,,0.0009,0.01,16,MPG,,,,,54.853,0.04883,0.022116,-6.205,-0.0803,0.019323,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,0,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,23.4,1,Not eqipped,DADX10019666,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0236,0.35,510,0.038,,0.0082,0.01,17.4,MPG,16.6,16.6,20.1,,54.853,0.04883

,0.022116,-6.205,-0.0803,0.019323,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,0,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,6000,2.85,23.4,1,Not eqipped,DADX10019667,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0249,0.43,288,0.003,,0.0111,0.01,30.8,MPG,,,,,54.853,0.04883,0.022116,-
6.205,-0.0803,0.019323,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,1,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5500,2.85,23.4,1,Not eqipped,DADX10019544,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0136,0.1,417,0.013,,0.0053,0.01,21.4,MPG,12.7,26.5,,,52.156,0.04883,0.0
2136,-9.689,-0.0575,0.01845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,1,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5500,2.85,23.4,1,Not eqipped,DADX10019545,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.303,2.88,599,0.033,,0.0481,0.01,14.8,MPG,11.7,14.9,18.1,,57.371,0.05372,0.0234
95,-10.658,0.02349,0.020294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,1,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5500,2.85,23.4,1,Not eqipped,DADX10019546,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0117,0.09,519,0.007,,0.0064,0.01,17.2,MPG,,,,,52.156,0.04883,0.02136,-
9.689,-0.0575,0.01845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,1,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5500,2.85,23.4,1,Not eqipped,DADX10019668,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0244,0.47,466,0.018,,0.0086,0.01,19,MPG,17.9,18.7,20.8,,52.156,0.04883,0
.02136,-9.689,-0.0575,0.01845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,BENTLEY,Continental GT,D3UJ-
BY62,1,3.993,DADXV04.03UJ,Car,500,8,CMMA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5500,2.85,23.4,1,Not eqipped,DADX10019669,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0189,0.31,265,0.002,,0.0087,0.01,33.5,MPG,,,,,52.156,0.04883,0.02136,-
9.689,-0.0575,0.01845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,34.3,1,Not eqipped,CADX10016143,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0307,0.64,348.8,0.009,,0.0042,0.01,25.4,MPG,25.6,23.6,29.5,,31.698,0.133
84,0.021825,19.963,-0.1052,0.022698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,34.3,1,Not eqipped,CADX10016144,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0124,0.14,215,0.004,,0.0055,0.01,41.3,MPG,,,,,31.698,0.13384,0.021825,19
.963,-0.1052,0.022698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,34.3,1,Not eqipped,CADX10016145,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0152,1.23,311.3,0.006,0.006,0.0049,,28.4,MPG,19.8,32.3,,,31.698,0.13384
,0.021825,19.963,-0.1052,0.022698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,34.3,1,Not eqipped,CADX10016146,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0044,0.76,430.6,0.007,0.005,0.0022,,20.6,MPG,,,,,31.698,0.13384,0.02182
5,19.963,-0.1052,0.022698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,34.3,1,Not eqipped,CADX10016147,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.2325,3,398.4,0.023,,0.0181,,22.2,MPG,20.6,21.1,26,,34.868,0.14722,0.024008,21.

959,-0.0947,0.024968,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,1,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,34.3,1,Not eqipped,CADX10019446,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0255,0.4,356,0.015,0.002,0.0058,0.01,25,MPG,25.7,23.2,28.7,,33.047,0.133
84,0.022582,12.364,-0.1917,0.02431,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,1,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,34.3,1,Not eqipped,CADX10019447,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0118,0.17,214,0.002,,0.0057,0.01,41.6,MPG,,,,,33.047,0.13384,0.022582,12
.364,-0.1917,0.02431,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,1,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,34.3,1,Not eqipped,CADX10019448,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0252,1.37,312,0.01,0.002,0.0083,0.01,28.4,MPG,19.5,32.6,,,33.047,0.1338
4,0.022582,12.364,-0.1917,0.02431,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,1,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,34.3,1,Not eqipped,CADX10019449,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0052,0.38,466,0.011,0.001,0.0021,0.01,19.1,MPG,,,,,33.047,0.13384,0.022
582,12.364,-0.1917,0.02431,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Beetle,VW 324
10003,1,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,34.3,1,Not eqipped,CADX10019450,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2354,2.29,401,0.015,,0.019,0.01,22,MPG,20.5,21.1,25.5,,36.352,0.14722,0.02484,
13.601,0.02484,0.026741,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465 00007,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014134,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0224,0.21,300,0.009,0.002,0.0033,0.01,29.6,MPG,28.9,28.3,32.9,,28.551,0.
20546,0.016762,2.585,0.05968,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465 00007,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014136,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0225,0.73,291,0.047,,,,30.4,MPG,22,34.1,,,28.551,0.20546,0.016762,2.585
,0.05968,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465 00007,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014137,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0262,0.24,379,0.007,,,,23.4,MPG,,,,,28.551,0.20546,0.016762,2.585,0.059
68,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465 00007,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014138,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.21,1.84,340,0.028,,,,26,MPG,24.4,25.3,29.3,,31.406,0.226,0.018438,2.844,0.0656
5,0.018566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465 00007,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014245,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028,0.14,195,0,,0.002,0.01,45.5,MPG,,,,,28.551,0.20546,0.016762,2.585,0
.05968,0.016878,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,2,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CADX10014648,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0093,0.13,210,0.003,0.001,,,42.3,MPG,,,,,32.148,0.28937,0.020603,6.969,0
.21667,0.020719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,2,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014649,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0232,1.28,320,0.028,0.002,,,27.6,MPG,19.2,31.5,,,32.148,0.28937,0.020603,6.969,0.21667,0.020719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,2,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014650,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0025,0.13,358,0.002,0.003,,,24.8,MPG,,,,,32.148,0.28937,0.020603,6.969,0.21667,0.020719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,2,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014651,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.022,0.52,334,0.01,0.002,,,26.5,MPG,25.4,25.7,29.4,,32.148,0.28937,0.020603,6.969,0.21667,0.020719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,2,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CADX10014652,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2514,2.45,361,0.022,,,,24.4,MPG,22.2,23.8,28.1,,35.362,0.31831,0.022663,7.666,0.23834,0.022791,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,3,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,CADX91001314,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0192327,0.4356048,331.6948439,0.0076647,,0.0036644,0.01,26.8,MPG,25.9935895,25.8281809,29.5244546,,33.272,0.28937,0.02136,8.318,0.03979,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Eos,VW465
790007/09,3,1.984,CADXJ02.03UA,Both,200,4,CCTA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,CADX91001315,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0037595,0.0715442,222.2737108,0.0008656,,0.0016973,0.01,40.1,MPG,,,,,33.272,0.28937,0.02136,8.318,0.03979,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Golf R,C3UA-GMA,0,1.984,CADXJ02.03UA,Both,256,4,CRZA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.27,40.8,2,"Equipped, not shifted by SIL",CADX10016637,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0241,0.42,372,0.017,0.003,0.0027,0.01,23.9,MPG,23.3,22.7,27.1,,37.543,0.28937,0.020079,-6.317,-0.0072,0.020428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Golf R,C3UA-GMA,0,1.984,CADXJ02.03UA,Both,256,4,CRZA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.27,40.8,2,"Equipped, not shifted by SIL",CADX10016638,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0037,0.14,240,0.002,,0.0018,0.01,37.1,MPG,,,,,37.543,0.28937,0.020079,-6.317,-0.0072,0.020428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Golf R,C3UA-GMA,0,1.984,CADXJ02.03UA,Both,256,4,CRZA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.27,40.8,2,"Equipped, not shifted by SIL",CADX10016639,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0144,0.6,337,0.009,,0.0058,,26.3,MPG,19.5,29.4,,,37.543,0.28937,0.020079,-6.317,-0.0072,0.020428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Golf R,C3UA-GMA,0,1.984,CADXJ02.03UA,Both,256,4,CRZA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.27,40.8,2,"Equipped, not shifted by SIL",CADX10016640,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0039,0.67,485,0.008,,0.0028,,18.3,MPG,,,,,37.543,0.28937,0.020079,-

6.317,-0.0072,0.020428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Golf R,C3UA-
GMA,0,1.984,CADXJ02.03UA,Both,256,4,CRZA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.27,40.8,2,"Equipped, not shifted by SIL",CADX10016641,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.259,1.86,427,0.047,,0.0154,,20.6,MPG,18.4,20.2,23.8,,41.297,0.31831,0.022087,-5.685,-0.0065,0.022471,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83PA-
AAF,5,1.984,AADXV02.03PA,Car,200,4,CBFA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,8ADX10004451,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0031,0.26,281,0.032,,,,31.4,MPG,22.8,35.4,,,29,0.205,0.0168,11,0.047,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83PA-
AAF,5,1.984,AADXV02.03PA,Car,200,4,CBFA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,8ADX10004452,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.0688,0.39,341,0.03,,,,25.9,MPG,23.6,25,30.6,,29,0.205,0.0168,11,0.047,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83PA-
AAF,5,1.984,AADXV02.03PA,Car,200,4,CBFA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,8ADX10004453,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0069,0.34,363,0.007,,,,24.3,MPG,,,,,29,0.205,0.0168,11,0.047,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83PA-
AAF,5,1.984,AADXV02.03PA,Car,200,4,CBFA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,8ADX10005015,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0087,0.17,299,0.011,,0.0033,0.01,29.6,MPG,27.9,28.8,32.9,,29,0.205,0.0168,11,0.047,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83PA-
AAF,5,1.984,AADXV02.03PA,Car,200,4,CBFA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,8ADX10005016,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0032,0.14,206,0.002,,,,42.9,MPG,,,,,29,0.205,0.0168,11,0.047,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83UA-
AAF,5,1.984,AADXV02.03UA,Car,200,4,CCTA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,AADX10004439,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0167,0.15,276,0.018,,,,32,MPG,23.6,35.8,,,29,0.205,0.0168,8,0.047,0.0171,,,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83UA-
AAF,5,1.984,AADXV02.03UA,Car,200,4,CCTA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,AADX10004440,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0084,0.08,373,0.031,,,,23.7,MPG,,,,,29,0.205,0.0168,8,0.047,0.0171,,,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83UA-
AAF,5,1.984,AADXV02.03UA,Car,200,4,CCTA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,AADX10004441,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.182,1.57,334,0.032,,,,26.3,MPG,23.5,25.4,31.1,,29,0.205,0.0168,8,0.047,0.0171,,,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83UA-
AAF,5,1.984,AADXV02.03UA,Car,200,4,CCTA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,AADX10005009,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.027,0.46,292,0.022,,0.0069,0.01,30.2,MPG,28.1,29.4,34,,29,0.205,0.0168,8,0.047,0.0171,,,N,,,N,No averaging

2013,Audi,ADX,Volkswagen,GTI,83UA-
AAF,5,1.984,AADXV02.03UA,Car,200,4,CCTA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.14,40.7,1,Not eqipped,AADX10005010,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.0067,0.09,201,0.002,,,,44,MPG,,,,,29,0.205,0.0168,8,0.047,0.0171,,,N,,,N
,No averaging

2013,Audi,ADX,VOLKSWAGEN,Jetta,VW361
00379,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,2.92,32.9,1,Not eqipped,CADX10014129,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0233,0.37,333,0.011,0.003,0.0041,0.01,26.6,MPG,26.9,24.8,30.6,,30.124,0.
19533,0.018566,14.77,-0.052,0.019264,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Jetta,VW361
00379,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,2.92,32.9,1,Not eqipped,CADX10014130,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013,0.09,199,0.001,,0.0011,0.01,44.6,MPG,,,,,30.124,0.19533,0.018566,14
.77,-0.052,0.019264,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Jetta,VW361
00379,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,2.92,32.9,1,Not eqipped,CADX10014131,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.1969,1.73,358,0.026,,,,24.7,MPG,23,23.7,28.7,,33.137,0.21486,0.020423,16.247,-
0.0468,0.021191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Jetta,VW361
00379,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,2.92,32.9,1,Not eqipped,CADX10014132,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0051,0.27,391,0.01,,,,22.7,MPG,,,,,30.124,0.19533,0.018566,14.77,-
0.052,0.019264,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,Jetta,VW361
00379,0,1.984,CADXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,2.92,32.9,1,Not eqipped,CADX10014133,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0317,1.56,293,0.029,,,,30.1,MPG,19.4,35.5,,,30.124,0.19533,0.018566,14.
77,-0.052,0.019264,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,TIGUAN,VW416
80218,0,1.984,BADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3875,3.3,38.5,1,Not eqipped,BADX10009905,No,11,Cold CO,27,Cold CO
Premium (Tier 2),FTP,0.2842,4.16,421,0.024,,,,20.7,MPG,19.3,20,24,,41,0.147,0.0272,26,-
0.116,0.0283,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,TIGUAN,VW416
80218,0,1.984,BADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3875,3.3,38.5,1,Not eqipped,BADX10009906,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0068,0.33,481,0.027,,,,18.4,MPG,,,,,37,0.134,0.0247,24,-
0.217,0.0251,TWC,Three-way catalyst,N,,,N,No averaging

2013,Audi,ADX,VOLKSWAGEN,TIGUAN,VW416
80218,0,1.984,BADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3875,3.3,38.5,1,Not eqipped,BADX91000669,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0273548,2.6494845,356.5990345,0.0331277,,0.0109171,,24.6,MPG,16.6429851
,28.5033805,,,37,0.134,0.0247,24,-0.217,0.0251,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Audi,ADX,VOLKSWAGEN,TIGUAN,VW416
80218,0,1.984,BADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3875,3.3,38.5,1,Not eqipped,BADX91000687,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0265527,0.8549878,406.742632,0.0152314,,0.0044899,,21.7,MPG,22.1088133,2
0.3675824,24.6470177,,37,0.134,0.0247,24,-0.217,0.0251,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Audi,ADX,VOLKSWAGEN,TIGUAN,VW416
80218,0,1.984,BADXV02.03UA,Car,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3875,3.3,38.5,1,Not eqipped,BADX91000688,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0030219,0.0925317,248.3542822,0.0041642,,0.0014776,,35.8,MPG,,,,,37,0.13
4,0.0247,24,-0.217,0.0251,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,0,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not

eqipped,DBEX10022242,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0143,0.191,510,0.0463,0.048,0.0059,,17.4,MPG,10.3,21.7,,,54.853,0.04883
,0.022116,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,0,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022243,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0711,0.768,625,0.042,0.004,0.0235,,14.2,MPG,,,,,54.853,0.04883,0.022116
,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,0,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022245,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.4998,4.87,648,0.0421,,0.0654,,13.6,MPG,11.3,13.3,17.2,,60.339,0.05372,0.024328
,8.376,-0.0075,0.023028,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,0,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022356,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0345,0.285,617,0.0255,0.001,0.0137,0.006,14.4,MPG,14.8,13.1,17.3,,54.853
,0.04883,0.022116,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,0,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022357,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0023,0.013,333,0.0086,,0.0003,0.001,26.7,MPG,,,,,54.853,0.04883,0.022116
,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,1,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not
eqipped,DBEX10022246,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0434,0.556,576,0.0236,0.001,0.0143,0.01,15.4,MPG,15,14.3,18.6,,52.156,0.
04883,0.02136,4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,1,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not
eqipped,DBEX10022248,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0101,0.056,485,0.041,,0.0043,,18.3,MPG,10.6,23,,,52.156,0.04883,0.02136
,4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,1,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not
eqipped,DBEX10022358,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0024,0.012,314,0.0072,,0.0006,0.001,28.3,MPG,,,,,52.156,0.04883,0.02136,
4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,2,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022249,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0286,0.428,589,0.0377,0.003,0.0169,0.01,10.5,MPG,10.9,9.5,12.6,,54.853,
0.04883,0.022116,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,2,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022250,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.001,0.015,303,0.0058,,0.0015,0.01,20.5,MPG,,,,,54.853,0.04883,0.022116,
7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,2,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022251,No,90,US06,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),US06,0.0035,0.042,479,0.0513,,0.013,,12.9,MPG,7.8,15.9,,,54.853,0.04883,0.022
116,7.614,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,2,5.998,DBEXV06.04UC,Car,616,12,CVA-
A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not
eqipped,DBEX10022252,No,95,SC03,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),SC03,0.0375,0.019,652,0.0388,,0.0375,,9.5,MPG,,,,,54.853,0.04883,0.022116,7.6
14,-0.0083,0.020935,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,2,5.998,DBEXV06.04UC,Car,616,12,CVA-A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,2.85,24.9,1,Not eqipped,DBEX10022253,No,11,Cold CO,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.4353,3.826,703,0.0371,,0.2106,,9.4,MPG,8,9,12,,60.339,0.05372,0.024328,8.376,-0.0092,0.023028,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,3,5.998,DBEXV06.04UC,Car,616,12,CVA-A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not eqipped,DBEX10022255,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0291,0.41,592,0.033,0.003,0.0151,0.01,10.5,MPG,11,10,12.5,,52.156,0.04883,0.02136,4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,3,5.998,DBEXV06.04UC,Car,616,12,CVA-A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not eqipped,DBEX10022256,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0022,0.01,298,0.011,,0.0009,0.01,20.8,MPG,,,,,52.156,0.04883,0.02136,4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental GT,BY77623/13,3,5.998,DBEXV06.04UC,Car,616,12,CVA-A,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,2.85,24.9,1,Not eqipped,DBEX10022257,No,90,US06,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),US06,0.0086,0.046,465,0.0494,,0.0052,,13.3,MPG,8.1,16.4,,,52.156,0.04883,0.02136,4.328,-0.0569,0.021057,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,0,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009781,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0209,0.029,693,0.0329,,0.0115,,12.8,MPG,,,,,51.5,0.4196,0.01926,10.1,-0.1277,0.02567,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,0,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009783,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.5125,3.205,689,0.0108,,0.0384,,12.8,MPG,10.1,11.9,15,,56.6,0.4616,0.02119,11.1,-0.1405,0.02823,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,1,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009784,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0561,0.209,649,0.0071,,0.0162,0.01,13.7,MPG,12.8,12.2,15.6,,49.7,0.2604,0.0202,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,1,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009785,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0051,0.024,361,0.0083,,0.0035,0.01,24.6,MPG,,,,,49.7,0.2604,0.0202,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,1,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009786,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0178,0.35,486,0.013,,0.0051,,18.3,MPG,13.4,20.4,,,49.7,0.2604,0.0202,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,2,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not eqipped,BBEX10009787,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0485,0.29,639,0.0059,,0.0155,0.01,13.9,MPG,13.3,13,16.6,,49.7,0.2604,0.0202,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental Supersports,BY61021,2,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not eqipped,BBEX10009788,No,3,HWFE,61,Tier

2 Cert
Gasoline,HWY,0.0037,0.057,359,0.0075,,0.0025,0.01,24.7,MPG,,,,,49.7,0.2604,0.0202,10.1,
-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,2,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not
eqipped,BBEX10009789,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0157,0.258,495,0.0155,,0.0047,,17.9,MPG,12.2,20.7,,,49.7,0.2604,0.0202,
10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,4,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009753,No,11,Cold
CO,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.4533,3.109,732,0.0233,,,,9.1,MPG,7.3,8,10.3,,56.6,0.4616,0.02119,11.1,-
0.1405,0.02823,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,4,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009754,No,95,SC03,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),SC03,0.051,0.0547,681,0.0204,,,,9.1,MPG,,,,,51.5,0.4196,0.01926,10.1,-
0.1277,0.02567,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,5,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009755,No,90,US06,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),US06,0.0152,0.404,517,0.0448,,,,12,MPG,7.5,14.5,,,49.7,0.2604,0.0202,10.1,-
0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,5,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009796,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0508,0.359,650,0.0133,,0.0277,0.01,9.5,MPG,9,9,11.4,,49.7,0.2604,0.0202
,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,5,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.53,30.4,1,Not eqipped,BBEX10009832,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0023,0.034,357,0.0126,,0.0015,0.01,17.3,MPG,,,,,49.7,0.2604,0.0202,10.1
,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,6,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not eqipped,BBEX10009756,No,90,US06,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),US06,0.019,0.382,479,0.013,,,,12.9,MPG,8.6,15,,,49.7,0.2604,0.0202,10.1,-
0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,6,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not eqipped,BBEX10009798,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0382,0.305,603,0.0095,,0.0263,0.01,10.3,MPG,9.5,9.8,12.1,,49.7,0.2604,0
.0202,10.1,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,BENTLEY,Continental
Supersports,BY61021,6,5.998,BBEXV06.0501,Car,621,12,CKH,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.53,30.4,1,Not eqipped,BBEX10009833,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0033,0.056,359,0.0093,,0.0018,0.01,17.2,MPG,,,,,49.7,0.2604,0.0202,10.1
,-0.072,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,Bentley,Mulsanne,15113,1,6.8,BBEXV06.84LA,Car,505,8,CKB,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,2.92,22.3,1,Not
eqipped,BBEX10020920,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0432,0.77583,690.22275,0.013,,0.01157,0.01,12.9,MPG,13.2,11.8,15.2,,69.916,0.13022,0.02101,20.7,0.44491,0.015836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,Bentley,Mulsanne,15113,1,6.8,BBEXV06.84LA,Car,505,8,CKB,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,2.92,22.3,1,Not eqipped,BBEX10020922,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00473,0.11,408.10588,0.012,,0.00222,0.01,21.8,MPG,,,,,69.916,0.13022,0.02101,20.7,0.44491,0.015836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,Bentley,Mulsanne,15113,1,6.8,BBEXV06.84LA,Car,505,8,CKB,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,2.92,22.3,1,Not eqipped,BBEX10020923,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01398,0.19,558.76453,0.05,,0.00615,0.01,15.9,MPG,9.5,19.7,,,69.916,0.13022,0.02101,20.7,0.4491,0.015836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,Bentley,Mulsanne,15113,1,6.8,BBEXV06.84LA,Car,505,8,CKB,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,2.92,22.3,1,Not eqipped,BBEX10020925,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.01052,0.01,777.17787,0.036,,0.00154,0.01,11.4,MPG,,,,,69.916,0.13022,0.02101,20.7,0.44491,0.015836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bentley,BEX,Bentley,Mulsanne,15113,1,6.8,BBEXV06.84LA,Car,505,8,CKB,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,2.92,22.3,1,Not eqipped,BBEX10020928,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3103,3.94,776.52874,0.022,,0.05618,0.01,11.4,MPG,10.1,10.9,14,,76.907,0.14324,0.02311,22.77,0.4894,0.01742,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF06008,2,3,9BMXJ03.0E89,Both,230,6,2.8-M-N52-E82D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.23,37.8,1,Not eqipped,9BMX10001333,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02157,0.0853,355.17,0.011,,,,24.9,MPG,,,,,32.8,0.118,0.01752,14.8,-0.117,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF06008,2,3,9BMXJ03.0E89,Both,230,6,2.8-M-N52-E82D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.23,37.8,1,Not eqipped,9BMX10001334,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00047,0.0006,216.4,0.001,,,,40.9,MPG,,,,,32.8,0.118,0.01752,14.8,-0.117,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF08014,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E82R,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.73,34.5,1,Not eqipped,9BMX01078932,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00109,0.0093,218.41,0.0021,,,,40.8,MPG,,,,,37.5,0.065,0.01835,14.4,-0.059,0.01852,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF08014,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E82R,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.73,34.5,1,Not eqipped,9BMX01084597,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0336,0.2166,381.56,0.0123,,,,23.2,MPG,,,,,37.5,0.065,0.01835,14.4,-0.059,0.01852,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF45602,0,3,ABMXV03.051R,Car,230,6,2.8-M-N51-E82,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.23,37.8,1,Not eqipped,ABMX01082097,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00531,0.1648,389.02,0.0102,,0.00096,,22.9,MPG,,,,,33.4,0.118,0.01755,14.6,0.057,0.01636,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF45602,0,3,ABMXV03.051R,Car,230,6,2.8-M-N51-E82,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.23,37.8,1,Not eqipped,ABMX01082098,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00004,0.0163,230.36,0.0011,,,,38.7,MPG,,,,,33.4,0.118,0.01755,14.6,0.057,0.01636,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF47604,2,3,9BMXV03.051R,Car,230,,2.8-M-N51-E82,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.73,34.7,1,Not eqipped,9BMX09009798,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0027404,0.0828431,237.49,0.0001098,,0.0015248,,37.6,MPG,,,,,38.1,0.065,0.01839,16.8,-0.052,0.01863,,,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF47604,2,3,9BMXV03.051R,Car,230,,2.8-M-N51-E82,SA,Semi-

Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.73,34.7,1,Not eqipped,9BMX09009799,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0089316,0.2461531,409.69,0.0071582,,0.0020168,,21.7,MPG,,,,,38.1,0.065,0.01839,16.8,-0.052,0.01863,,,N,,,N,No averaging

2013,BMW,BMX,BMW,128i,VF47604,2,3,9BMXV03.051R,Car,230,,2.8-M-N51-E82,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.73,34.7,1,Not eqipped,9BMX09009936,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0073234,0.2633584,408.08,0.0083631,,0.002319,,21.8,MPG,,,,,38.1,0.065,0.01839,16.8,-0.052,0.01863,,,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF06008,1,3,8BMXB03.0N5R,Both,230,,2.8-M-N52-E88R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.23,37.8,1,Not eqipped,8BMX91000061,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027426,0.0135388,230.3951358,0.0016799,,0.0013677,,38.7,MPG,,,,,34.6,0.118,0.01927,14.9,-0.059,0.01986,,,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF06008,1,3,8BMXB03.0N5R,Both,230,,2.8-M-N52-E88R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.23,37.8,1,Not eqipped,8BMX91000063,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0312456,0.1159399,369.8757198,0.0104721,,0.0062508,,24,MPG,,,,,34.6,0.118,0.01927,14.9,-0.059,0.01986,,,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF08014,1,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E88R,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.73,34.5,1,Not eqipped,9BMX01080086,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02751,0.0447,380.12,0.0128,,0.00159,,23.4,MPG,,,,,39.3,0.065,0.02009,16.3,-0.089,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF08014,1,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E88R,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.73,34.5,1,Not eqipped,9BMX01080087,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00086,0.0042,239.74,0.0015,,,,37,MPG,,,,,39.3,0.065,0.02009,16.3,-0.089,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF45602,1,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.23,37.8,1,Not eqipped,ABMX01082099,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00524,0.179,403.56,0.009,,0.00046,,22,MPG,,,,,34.6,0.118,0.0193,14.2,-0.093,0.02009,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF45602,1,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.23,37.8,1,Not eqipped,ABMX01082100,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00034,0.0182,235.11,0.0014,,,,37.9,MPG,,,,,34.6,0.118,0.0193,14.2,-0.093,0.02009,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF47604,1,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.73,34.7,1,Not eqipped,ABMX01083501,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.0225,236.56,0.0003,,,,37.6,MPG,,,,,39.3,0.065,0.02009,15,-0.051,0.02021,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,128i Convertible,VF47604,1,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.73,34.7,1,Not eqipped,ABMX01083505,No,35,California fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00545,0.1222,399.92,0.0084,,0.0005,,22.3,MPG,,,,,39.3,0.065,0.02009,15,-0.051,0.02021,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,A745500,0,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E82,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.08,36.4,1,Not eqipped,BBMX10007594,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0179,0.5941,222.83,0.0029,,,,39.7,MPG,,,,,38.8,0.117,0.01864,19,-0.146,0.01933,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,A745500,0,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E82,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.08,36.4,1,Not eqipped,BBMX10007595,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02026,0.3424,351.64,0.0112,,0.0041,,25.2,MPG,24.47,24.24,28.13,,38.8,0.1

17,0.01864,19,-0.146,0.01933,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,VM08900,0,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E82,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,2.56,35.8,1,Not eqipped,BBMX10007211,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02287,0.3734,365.49,0.0239,,0.00491,,24.3,MPG,23.72,23.46,24.25,,35.9,0.461,0.01388,18.4,0.065,0.01671,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,VM08900,0,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E82,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,2.56,35.8,1,Not eqipped,BBMX10007212,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08923,1.0107,232.98,0.0033,,,,37.8,MPG,,,,,35.9,0.461,0.01388,18.4,0.065,0.01671,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,VM08900,2,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E82,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,2.56,35.8,1,Not eqipped,BBMX10007871,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0305,0.4034,429.81,0.0332,,0.00652,,20.7,MPG,20.58,19.34,23.84,,35.9,0.461,0.01388,18.4,0.065,0.01671,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i,VM08900,2,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E82,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,2.56,35.8,1,Not eqipped,BBMX10007872,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08067,1.0199,269.09,0.0104,,,,32.8,MPG,,,,,35.9,0.461,0.01388,18.4,0.065,0.01671,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,A745500,6,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E88,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.08,36.4,1,Not eqipped,BBMX10007706,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02448,0.3557,375.08,0.0124,,0.00597,,23.7,MPG,23.49,22.35,26.86,,40.2,0.117,0.01823,19.2,-0.206,0.0202,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,A745500,6,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E88,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.08,36.4,1,Not eqipped,BBMX10007708,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05389,0.7372,229.94,0.0051,,,,38.5,MPG,,,,,40.2,0.117,0.01823,19.2,-0.206,0.0202,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,VM08900,1,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E88,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.56,35.8,1,Not eqipped,BBMX10007213,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0219,0.386,363.88,0.0158,,0.00542,,24.3,MPG,24.1,23.4,26.38,,37.3,0.461,0.01451,15.8,-0.062,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,VM08900,1,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E88,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.56,35.8,1,Not eqipped,BBMX10007214,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.10995,1.1111,227.95,0.0033,,,,38.5,MPG,,,,,37.3,0.461,0.01451,15.8,-0.062,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,VM08900,3,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E88,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.56,35.8,1,Not eqipped,BBMX10007873,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03559,0.5228,436.31,0.0265,,0.01027,,20.4,MPG,20.09,19.13,23.33,,37.3,0.461,0.01451,15.8,-0.062,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,135i Convertible,VM08900,3,3,BBMXJ03.0N55,Both,300,6,3.0-D-N55-E88,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.56,35.8,1,Not eqipped,BBMX10007874,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08652,1.0565,272.07,0.0108,,,,32.5,MPG,,,,,37.3,0.461,0.01451,15.8,-0.062,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci,PU87089,9,3,8BMXB03.0N5R,Both,230,,2.8-A-N52-E90R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38,1,Not eqipped,8BMX10001563,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00054,0.014,230.94,0.0019,,,,38.2,MPG,,,,,38,0.121,0.01729,19,0.024,0.01729,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci,PU87089,9,3,8BMXB03.0N5R,Both,230,,2.8-A-N52-

E90R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38,1,Not eqipped,8BMX10001564,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03208,0.2128,376.97,0.0144,,,,23.4,MPG,,,,,38,0.121,0.01729,19,0.024,0.01729,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci,PU87089,10,3,8BMXB03.0N5R,Both,230,,2.8-A-N52-E90R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38,1,Not eqipped,8BMX10001561,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02666,0.1665,376.71,0.0114,,,,23.4,MPG,,,,,34.2,0.122,0.01671,16.5,-0.009,0.01682,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci,PU87089,10,3,8BMXB03.0N5R,Both,230,,2.8-A-N52-E90R,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38,1,Not eqipped,8BMX10001562,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00106,0.0141,225.87,0.0016,,,,39.1,MPG,,,,,34.2,0.122,0.01671,16.5,-0.009,0.01682,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci Convertible,AC79601,10,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.6,1,Not eqipped,ABMX01075930,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00765,0.1546,439.3,0.0081,,,,20.2,MPG,,,,,41.6,0.121,0.01712,23.2,-0.027,0.01724,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci Convertible,AC79601,10,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.6,1,Not eqipped,ABMX01075931,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00156,0,248.3,0.0014,,,,35.9,MPG,,,,,41.6,0.121,0.01712,23.2,-0.027,0.01724,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci Convertible,AC79601,11,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not eqipped,ABMX01075950,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00513,0.1954,433.56,0.0073,,,,20.5,MPG,,,,,38.7,0.121,0.01671,20.9,-0.08,0.01735,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328Ci Convertible,AC79601,11,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not eqipped,ABMX01075951,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.0057,241.67,0.0007,,,,36.7,MPG,,,,,38.7,0.121,0.01671,20.9,-0.08,0.01735,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,2,3,ABMXV03.0N51,Car,230,,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.6,1,Not eqipped,ABMX01072032,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00045,0.0326,241.98,0.0003,,,,36.8,MPG,,,,,46.3,0.069,0.01793,24.8,-0.092,0.0184,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,2,3,ABMXV03.0N51,Car,230,,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.6,1,Not eqipped,ABMX01072986,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00784,0.1363,408.68,0.006,,,,21.8,MPG,,,,,46.3,0.069,0.01793,24.8,-0.092,0.0184,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,2,3,ABMXV03.0N51,Car,230,,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.6,1,Not eqipped,ABMX01072987,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00791,0.0852,421.66,0.0092,,,,21.1,MPG,,,,,46.3,0.069,0.01793,24.8,-0.092,0.0184,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,2,3,ABMXV03.0N51,Car,230,,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.6,1,Not eqipped,ABMX01072988,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00773,0.1465,412.46,0.0061,,,,21.6,MPG,,,,,46.3,0.069,0.01793,24.8,-0.092,0.0184,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,5,3,ABMXV03.051R,Car,230,6,2.8-N51-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <

1,4250,3.91,36.6,1,Not eqipped,ABMX01072449,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.0354,239.2,0,,,,37.3,MPG,,,,,43.4,0.069,0.01759,22.4,-
0.14,0.01858,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328CiA Convertible,KX63709,5,3,ABMXV03.051R,Car,230,6,2.8-N51-
E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,3.91,36.6,1,Not eqipped,ABMX01072993,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert
Gasoline,FTP,0.00795,0.1549,406.75,0.0058,,,,21.9,MPG,,,,,43.4,0.069,0.01759,22.4,-
0.14,0.01858,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,A696623,1,2,CBMXV02.0N26,Car,240,4,2.0-N26-
F30,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,57.4,1,Not
eqipped,CBMX91001375,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0000819,0.0682779,175.1535785,0.0026701,,0.0000835,0.01,50.9,MPG,,,,,42.
9,-0.347,0.02168,11.6,0.15,0.01569,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,A696623,1,2,CBMXV02.0N26,Car,240,4,2.0-N26-
F30,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,57.4,1,Not
eqipped,CBMX91001391,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0052045,0.3899787,303.5073054,0.00548,,0.0016066,0.01,29.2,MPG,28.538309
1,28.3520356,31.8690808,,42.9,-0.347,0.02168,11.6,0.15,0.01569,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,A696623,2,2,CBMXV02.0N26,Car,240,4,2.0-N26-
F30,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,57.4,1,Not
eqipped,CBMX10021205,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00144,0.0183,177.07,0.0027,,0.00044,0.01,50.2,MPG,,,,,47.2,-
0.334,0.02107,14.5,0.17,0.01505,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,A696623,2,2,CBMXV02.0N26,Car,240,4,2.0-N26-
F30,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,57.4,1,Not
eqipped,CBMX10021206,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00486,0.4167,296.85,0.0072,,0.00122,0.01,29.9,MPG,,,,,47.2,-
0.334,0.02107,14.5,0.17,0.01505,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,AC79601,13,3,9BMXV03.051R,Car,230,,2.8-N51-E90,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38.1,1,Not
eqipped,9BMX01075544,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00724,0.1943,409.13,0.0094,,,,21.7,MPG,,,,,34.2,0.122,0.01671,17,-
0.072,0.01759,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,AC79601,13,3,9BMXV03.051R,Car,230,,2.8-N51-E90,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,38.1,1,Not
eqipped,9BMX01075580,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00221,0.0058,232.8,0.0011,,,,38.2,MPG,,,,,34.2,0.122,0.01671,17,-
0.072,0.01759,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,AC79601,14,3,9BMXV03.051R,Car,230,,2.8-N51-E90,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,37.9,1,Not
eqipped,9BMX01075668,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00595,0.1011,413.46,0.0095,,,,21.5,MPG,,,,,38.2,0.121,0.01729,21.1,-
0.094,0.01846,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,AC79601,14,3,9BMXV03.051R,Car,230,,2.8-N51-E90,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,3625,3.23,37.9,1,Not
eqipped,9BMX01075669,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00137,0.0063,238.35,0.0007,,,,37.4,MPG,,,,,38.2,0.121,0.01729,21.1,-
0.094,0.01846,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,CM30000,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
X90D,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,37.6,1,Not
eqipped,9BMX01062323,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02306,0.1173,410.43,0.012,,,,21.6,MPG,,,,,49.2,0.21,0.0177,25.6,0.105,0.
01688,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,CM30000,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
X90D,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,37.6,1,Not
eqipped,9BMX01062324,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.00006,0.018,258.97,0.0024,,,,34.3,MPG,,,,,49.2,0.21,0.0177,25.6,0.105,0.

01688,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,CM30000,3,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-X90D,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,37.6,1,Not eqipped,9BMX01062493,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0218,0.0941,401.77,0.0107,,,,22.1,MPG,,,,,42.5,0.211,0.01759,18,0.134,0.01621,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,CM30000,3,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-X90D,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,37.6,1,Not eqipped,9BMX01062494,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.00005,0.0076,250.39,0.0026,,,,35.5,MPG,,,,,42.5,0.211,0.01759,18,0.134,0.01621,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28.1,1,Not eqipped,CBMX91001234,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0078641,0.7633757,291.7086768,0.0169899,,0.0026444,0.01,30.4,MPG,28.6011749,29.9978328,32.7746465,,43.1,-0.347,0.02163,9.2,0.246,0.01431,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28.1,1,Not eqipped,CBMX91001257,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.2288419,177.2019934,0.0013917,,0,0.01,50.2,MPG,,,,,43.1,-0.347,0.02163,9.2,0.246,0.01431,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28.1,1,Not eqipped,CBMX91001258,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0098951,0.7160399,297.9622857,0.016559,0.0028403,0.0028308,0.01,29.8,MPG,29.181074,28.6970908,32.5483346,,43.1,-0.347,0.02163,9.2,0.246,0.01431,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28.1,1,Not eqipped,CBMX91001270,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0000948,0.3901552,176.5914764,0.0016843,,0.0001896,0.01,50.1,MPG,,,,,43.1,-0.347,0.02163,9.2,0.246,0.01431,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,1,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28,1,Not eqipped,CBMX10019702,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00741,0.3084,280.54,0.0187,,0.00155,0.01,31.7,MPG,30.8,30.7,34.8,,47.4,-0.334,0.02102,17.3,0.073,0.01591,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ88502,1,2,CBMXV02.0N20,Car,241,4,2.0-N20-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.15,28,1,Not eqipped,CBMX10019703,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00922,0.1934,183.55,0.0025,,0.00216,0.01,48.3,MPG,,,,,47.4,-0.334,0.02102,17.3,0.073,0.01591,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ89500,0,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.15,28.1,1,Not eqipped,CBMX10017604,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00799,0.376,301.14,0.0171,,0.00257,0.01,29.5,MPG,29.53,27.79,33.46,,31,0.102,0.0172,13.9,-0.055,0.01761,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ89500,0,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.15,28.1,1,Not eqipped,CBMX10017605,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02249,0.2305,177.86,0.0054,,0.00407,0.01,49.9,MPG,,,,,31,0.102,0.0172,13.9,-0.055,0.01761,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ89500,1,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.15,28,1,Not eqipped,CBMX10017606,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00676,0.377,307.51,0.0291,,0.00148,0.01,28.9,MPG,28.77,27.28,32.72,,35.5,0.098,0.01676,20.3,-0.083,0.01747,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,FJ89500,1,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.15,28,1,Not eqipped,CBMX10017607,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00663,0.1856,182.22,0.0023,,0.00114,0.01,48.9,MPG,,,,,35.5,0.098,0.01676,20.3,-0.083,0.01747,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX63709,0,3,8BMXV03.0N51,Car,230,,2.8-N51-E90,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,35,1,Not eqipped,8BMX01072038,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00072,0.0087,235.08,0.0003,,,,37.9,MPG,,,,,42.9,0.069,0.01805,24,-0.182,0.01958,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX63709,0,3,8BMXV03.0N51,Car,230,,2.8-N51-E90,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,35,1,Not eqipped,8BMX01072990,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00718,0.1081,397.23,0.0054,,,,22.4,MPG,,,,,42.9,0.069,0.01805,24,-0.182,0.01958,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX63709,1,3,8BMXV03.0N51,Car,230,,2.8-N51-E90,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,35,1,Not eqipped,8BMX01072036,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00292,0.0133,227.27,0.0003,,,,39.2,MPG,,,,,38.7,0.069,0.01747,17.2,-0.035,0.01705,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX63709,1,3,8BMXV03.0N51,Car,230,,2.8-N51-E90,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,35,1,Not eqipped,8BMX01072989,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00939,0.1351,391.87,0.007,,,,22.7,MPG,,,,,38.7,0.069,0.01747,17.2,-0.035,0.01705,,,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,34.9,1,Not eqipped,9BMX01070965,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02906,0.173,374.72,0.0133,,0.00208,,23.7,MPG,,,,,38.7,0.069,0.01747,13.8,-0.138,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,0,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,34.9,1,Not eqipped,9BMX01070966,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0003,0.0221,217.58,0.0026,,,,40.9,MPG,,,,,38.7,0.069,0.01747,13.8,-0.138,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,1,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,34.8,1,Not eqipped,9BMX01070967,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02603,0.2012,385.34,0.0123,,0.0019,,23.1,MPG,,,,,42.9,0.069,0.01805,18.1,-0.035,0.01776,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,1,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,34.8,1,Not eqipped,9BMX01070968,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.00045,0.0365,227.37,0.0025,,,,39.2,MPG,,,,,42.9,0.069,0.01805,18.1,-0.035,0.01776,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,4,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.5,1,Not eqipped,9BMX01071609,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02619,0.1126,399.58,0.0108,,0.00179,,22.3,MPG,,,,,43.4,0.069,0.01759,15.1,-0.088,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,4,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.5,1,Not eqipped,9BMX01071610,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0003,0.0234,233.06,0.0032,,,,38.2,MPG,,,,,43.4,0.069,0.01759,15.1,-0.088,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,5,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.5,1,Not eqipped,9BMX01072086,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02925,0.1525,407.36,0.0097,,0.00203,,21.9,MPG,,,,,46.3,0.069,0.01793,19,

-0.059,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,KX70000,5,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
E90D,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,36.5,1,Not
eqipped,9BMX01072087,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.00035,0.0237,239.68,0.0043,,,,37.1,MPG,,,,,46.3,0.069,0.01793,19,-
0.059,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,6,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
X90D,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,39.8,1,Not
eqipped,9BMX09006996,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028411,0.0504258,254.67,0.0020378,,0.0010347,,34.9,MPG,,,,,44.3,0.169,0
.01863,25,0.054,0.01863,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,6,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
X90D,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,39.8,1,Not
eqipped,9BMX09006997,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0291215,0.1940014,446.39,0.0150197,,,,19.9,MPG,,,,,44.3,0.169,0.01863,25
,0.054,0.01863,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,6,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
X90D,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,39.8,1,Not
eqipped,9BMX09007057,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0272113,0.1791517,439.11,0.0130419,,0.0034515,,20.3,MPG,,,,,44.3,0.169,0
.01863,25,0.054,0.01863,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,7,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
E90D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not
eqipped,9BMX01073951,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01983,0.1684,414.29,0.0091,,,,21.5,MPG,,,,,41.6,0.121,0.01712,22.3,-
0.036,0.0177,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,7,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
E90D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not
eqipped,9BMX01073952,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00083,0.0134,241.49,0.0015,,,,37,MPG,,,,,41.6,0.121,0.01712,22.3,-
0.036,0.0177,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,8,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
E90D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not
eqipped,9BMX01074073,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02082,0.147,416.39,0.0098,,,,21.4,MPG,,,,,38.7,0.121,0.01671,18.6,0.007,
0.01654,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i,PU87089,8,3,9BMXJ03.0E89,Both,230,6,2.8-A-N52-
E90D,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.38,39.7,1,Not
eqipped,9BMX01074074,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00103,0.007,238.75,0.001,,,,37.3,MPG,,,,,38.7,0.121,0.01671,18.6,0.007,0
.01654,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,3,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,34.4,1,Not
eqipped,DBMX10021829,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00597,0.2453,306.26,0.0087,,0.00132,0.01,29.1,MPG,,,,,47.5,-
0.345,0.02249,14.6,-0.071,0.01777,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,3,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,34.4,1,Not
eqipped,DBMX10021830,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00031,0.0187,179.75,0.0025,,0.00009,0.01,49.6,MPG,,,,,47.5,-
0.345,0.02249,14.6,-0.071,0.01777,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,4,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,34.4,1,Not
eqipped,DBMX10021831,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00463,0.2153,311.44,0.0082,,0.00162,0.01,28.7,MPG,,,,,47.5,-
0.345,0.02249,14.6,-0.071,0.01777,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,5,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,35.6,1,Not

eqipped,DBMX10021833,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00517,0.2823,311.84,0.0077,,0.00089,0.01,28.6,MPG,,,,,51.8,-
0.332,0.02185,23.1,-0.332,0.01809,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,5,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,35.6,1,Not
eqipped,DBMX10021834,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00001,0.0463,188.36,0.0017,,0,0.01,47.4,MPG,,,,,51.8,-
0.332,0.02185,23.1,-0.332,0.01809,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,6,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,35.6,1,Not
eqipped,DBMX10021576,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0001,0.0168,188.99,0.0019,,0.00072,0.01,47.2,MPG,,,,,51.8,-
0.332,0.02185,23.1,-0.332,0.01809,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,6,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,35.6,1,Not
eqipped,DBMX10021832,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00016,0.0594,188.64,0.0022,,0.00167,0.01,47.2,MPG,,,,,51.8,-
0.332,0.02185,23.1,-0.332,0.01809,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328i xDrive,A696623,6,2,DBMXV02.0N26,Car,240,4,2.0-N26-
F3X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.15,35.6,1,Not
eqipped,DBMX10021836,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00646,0.3279,313.4,0.0054,,0.00221,0.01,28.5,MPG,,,,,51.8,-
0.332,0.02185,23.1,-0.332,0.01809,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,AC79601,8,3,ABMXV03.051R,Car,230,6,2.8-N51-
X90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,40,1,Not
eqipped,ABMX01075725,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00534,0.1756,441.29,0.0115,,,,20.2,MPG,,,,,40,0.169,0.01805,23.9,-
0.079,0.01957,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,AC79601,8,3,ABMXV03.051R,Car,230,6,2.8-N51-
X90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,40,1,Not
eqipped,ABMX01075726,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00045,0,255.29,0.002,,,,34.9,MPG,,,,,40,0.169,0.01805,23.9,-
0.079,0.01957,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,AC79601,9,3,ABMXV03.051R,Car,230,6,2.8-N51-
X90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,39.8,1,Not
eqipped,ABMX01075763,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00499,0.1626,442.75,0.0084,,,,20.1,MPG,,,,,43.8,0.169,0.01863,27.1,-
0.076,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,AC79601,9,3,ABMXV03.051R,Car,230,6,2.8-N51-
X90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,39.8,1,Not
eqipped,ABMX01075764,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.0041,263.84,0.0012,,,,33.7,MPG,,,,,43.8,0.169,0.01863,27.1,-
0.076,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,B996002,0,3,9BMXJ03.0E89,Both,230,6,2.8-M-N5X-
E90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,40,1,Not
eqipped,9BMX01062020,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02832,0.3816,415,0.0137,,,,21.4,MPG,,,,,38,0.318,0.01665,17.7,0.132,0.01
725,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xi,B996002,0,3,9BMXJ03.0E89,Both,230,6,2.8-M-N5X-
E90,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.38,40,1,Not
eqipped,9BMX01062021,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00058,0.0255,244.94,0.0018,,,,36.3,MPG,,,,,38,0.318,0.01665,17.7,0.132,0
.01725,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xiA,KX63709,3,3,ABMXV03.051R,Car,230,6,2.8-N51-X90,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,36.6,1,Not
eqipped,ABMX09006055,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0117168,0.1338303,421.19,0.0108891,,,,21.2,MPG,,,,,48.3,0.116,0.01945,28
.4,-0.116,0.02069,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xiA,KX63709,3,3,ABMXV03.051R,Car,230,6,2.8-N51-X90,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,36.6,1,Not eqipped,ABMX09006056,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017313,0.0552033,250.72,0.0000256,,0.0004891,,35.5,MPG,,,,,48.3,0.116,0.01945,28.4,-0.116,0.02069,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xiA,KX63709,4,3,ABMXV03.051R,Car,230,6,2.8-N51-X90,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,36.6,1,Not eqipped,ABMX01072040,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00005,0.0178,245.65,0.0002,,,,36.2,MPG,,,,,44.5,0.117,0.01887,23.8,-0.043,0.01925,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,328xiA,KX63709,4,3,ABMXV03.051R,Car,230,6,2.8-N51-X90,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.91,36.6,1,Not eqipped,ABMX01072991,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00715,0.1106,408.37,0.0062,,,,21.8,MPG,,,,,44.5,0.117,0.01887,23.8,-0.043,0.01925,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci,A745500,3,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,36.1,1,Not eqipped,BBMX10007601,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0188,0.3108,351.51,0.0121,,0.00348,,25.2,MPG,24.68,24.11,28.41,,39.7,0.118,0.01636,17.6,-0.157,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci,A745500,3,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E92,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,36.1,1,Not eqipped,BBMX10007602,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00792,0.2792,218.65,0.0027,,,,40.5,MPG,,,,,39.7,0.118,0.01636,17.6,-0.157,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745000,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E93,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.46,33.1,1,Not eqipped,BBMX91000483,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.035245,0.5187305,234.7353013,0.0025329,,0.0100734,,37.6,MPG,,,,,43.6,0.088,0.01738,15.9,0.03,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745000,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E93,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.46,33.1,1,Not eqipped,BBMX91000485,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0237271,0.4116762,399.5042839,0.010779,,0.0056665,,22.2,MPG,21.9302451,20.9827828,25.1526938,,43.6,0.088,0.01738,15.9,0.03,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745000,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E93,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.46,33.1,1,Not eqipped,BBMX91000496,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0139908,0.3483432,240.5275818,0.0016678,,0.0052179,,36.8,MPG,,,,,43.6,0.088,0.01738,15.9,0.03,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745000,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E93,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.46,33.1,1,Not eqipped,BBMX91000498,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0227997,0.4346181,398.1212402,0.0094617,,0.0047032,,22.3,MPG,22.0414556,21.060703,25.1822802,,43.6,0.088,0.01738,15.9,0.03,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745500,5,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E93,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.15,36.9,1,Not eqipped,BBMX10009739,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01268,0.2796,403.2,0.0131,,0.00233,,22,MPG,22.09,20.68,25.04,,42,0.118,0.01705,17.2,-0.029,0.01705,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,A745500,5,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-E93,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.15,36.9,1,Not eqipped,BBMX10009740,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00199,0.3733,235.6,0.0021,,0.00086,,37.6,MPG,,,,,42,0.118,0.01705,17.2,-0.029,0.01705,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,AZ87685,2,3,9BMXV03.0ULR,Car,300,,3.0-N54-E93U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.08,37.1,1,Not eqipped,9BMX01069521,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03279,0.2749,424.66,0.0165,,,,20.9,MPG,,,,,39.3,0.133,0.017,15.6,-0.124,0.01805,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,AZ87685,2,3,9BMXV03.0ULR,Car,300,,3.0-N54-E93U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.08,37.1,1,Not eqipped,9BMX01069522,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00046,0.0207,244.63,0.0054,,,,36.4,MPG,,,,,39.3,0.133,0.017,15.6,-0.124,0.01805,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,AZ87685,3,3,9BMXV03.0ULR,Car,300,,3.0-N54-E93U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.08,37.1,1,Not eqipped,9BMX01069902,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02897,0.2519,429.29,0.0168,,,,20.7,MPG,,,,,41.1,0.133,0.01788,19.5,-0.131,0.0191,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci Convertible,AZ87685,3,3,9BMXV03.0ULR,Car,300,,3.0-N54-E93U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.08,37.1,1,Not eqipped,9BMX01069903,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00075,0.021,250.75,0.00268,,,,35.5,MPG,,,,,41.1,0.133,0.01788,19.5,-0.131,0.0191,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci xDrive,A745000,4,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-X92,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.46,33.1,1,Not eqipped,BBMX10006707,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.12521,0.8347,236.01,0.0037,,,,37.3,MPG,,,,,39.7,0.441,0.01427,59.7,0.987,0.02235,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci xDrive,A745000,4,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-X92,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.46,33.1,1,Not eqipped,BBMX10006708,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02619,0.3682,383.96,0.0097,,0.00699,,23.1,MPG,22.92,21.9,25.69,,39.7,0.441,0.01427,59.7,0.987,0.02235,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci xDrive,A745500,2,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-X92,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,36.1,1,Not eqipped,BBMX10007599,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0192,0.3542,373.95,0.011,,0.00338,,23.7,MPG,23.31,22.69,26.54,,42.2,0.218,0.01702,21,0.085,0.01683,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335Ci xDrive,A745500,2,3,BBMXJ03.0N55,Both,300,6,3.0-M-N55-X92,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,36.1,1,Not eqipped,BBMX10007600,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00415,0.1636,237.67,0.0018,,,,37.3,MPG,,,,,42.2,0.218,0.01702,21,0.085,0.01683,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335CiA,A745000,3,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.46,33.1,1,Not eqipped,BBMX10006701,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02325,0.3332,363.43,0.0092,,0.00536,,24.4,MPG,24.18,23.04,27.45,,41.4,0.088,0.01669,16.6,-0.035,0.01699,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335CiA,A745000,3,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-E92,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.46,33.1,1,Not eqipped,BBMX10010647,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.059,217.1,0.0008,,,,40.9,MPG,,,,,41.4,0.088,0.01669,16.6,-0.035,0.01699,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,AZ87685,18,3,9BMXV03.0ULR,Car,300,,3.0-N54-E90U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,37.1,1,Not eqipped,9BMX01089033,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02493,0.1735,385.43,0.0126,,,,23,MPG,,,,,36.9,0.132,0.01741,14.1,-0.03,0.01757,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,AZ87685,18,3,9BMXV03.0ULR,Car,300,,3.0-N54-E90U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,37.1,1,Not eqipped,9BMX01089037,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00089,0,237.63,0.0036,,,,37.2,MPG,,,,,36.9,0.132,0.01741,14.1,-

0.03,0.01757,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,AZ87685,19,3,9BMXV03.0ULR,Car,300,,3.0-N54-E90U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,37.1,1,Not eqipped,9BMX01089038,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02318,0.1021,388.36,0.0124,,,,22.8,MPG,,,,,38.2,0.132,0.01828,16.8,-0.075,0.01932,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,AZ87685,19,3,9BMXV03.0ULR,Car,300,,3.0-N54-E90U2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,37.1,1,Not eqipped,9BMX01089039,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00043,0,244.43,0.0039,,,,36.3,MPG,,,,,38.2,0.132,0.01828,16.8,-0.075,0.01932,,,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,F077601,0,3,CBMXJ03.0N55,Both,300,6,3.0-M-N55-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.23,36.4,1,Not eqipped,CBMX10017701,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02125,0.2915,338.72,0.0146,,0.00466,0.01,26.2,MPG,25.8,25,29.5,,34.5,0.09,0.01749,18.9,-0.065,0.01786,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,F077601,0,3,CBMXJ03.0N55,Both,300,6,3.0-M-N55-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.23,36.4,1,Not eqipped,CBMX10017702,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02849,0.1221,206.08,0.0027,,0.00598,0.01,43.2,MPG,,,,,34.5,0.09,0.01749,18.9,-0.065,0.01786,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,F077601,1,3,CBMXJ03.0N55,Both,300,6,3.0-M-N55-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.23,36.3,1,Not eqipped,CBMX10017207,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01671,0.2532,338.69,0.0126,,0.00461,0.01,26.3,MPG,25.83,24.96,29.7,,36.4,0.091,0.01766,20.4,-0.021,0.01754,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,F077601,1,3,CBMXJ03.0N55,Both,300,6,3.0-M-N55-F30,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.23,36.3,1,Not eqipped,CBMX10017587,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03614,0.2434,209.65,0.0032,,0.00686,0.01,42.3,MPG,,,,,36.4,0.091,0.01766,20.4,-0.021,0.01754,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,0,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.4,1,Not eqipped,CBMX10017758,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0301,0.3462,307.75,0.0129,,0.00448,0.01,28.9,MPG,28,27.8,32.3,,45.2,-0.347,0.0219,9.8,0.253,0.01463,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,0,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.4,1,Not eqipped,CBMX10017759,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00411,0.0234,190.88,0.0029,,0.00163,0.01,46.6,MPG,,,,,45.2,-0.347,0.0219,9.8,0.253,0.01463,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,0,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.4,1,Not eqipped,CBMX10017760,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02056,0.2256,309.43,0.0136,,0.00406,0.01,28.8,MPG,27.8,27.8,31.5,,45.2,-0.347,0.0219,9.8,0.253,0.01463,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,0,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.4,1,Not eqipped,CBMX10017761,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.021,0.073,189.68,0.0032,,0.00383,0.01,46.9,MPG,,,,,45.2,-0.347,0.0219,9.8,0.253,0.01463,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,1,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.3,1,Not eqipped,CBMX10017592,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02861,0.4216,310.05,0.0132,,0.00553,0.01,28.7,MPG,27.8,27.8,31.4,,47.1,-0.347,0.02207,16.4,0.08,0.01668,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,1,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.3,1,Not

eqipped,CBMX10017593,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02351,0.1276,194.75,0.0035,,0.00276,0.01,45.6,MPG,,,,,47.1,-
0.347,0.02207,16.4,0.08,0.01668,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i,FX59502,1,3,CBMXJ03.0N55,Both,300,6,3.0-A-N55-F30,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.08,27.3,1,Not
eqipped,CBMX10017698,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02254,0.3132,305.98,0.0132,,0.00503,0.01,29.1,MPG,28.6,28,31.7,,47.1,-
0.347,0.02207,16.4,0.08,0.01668,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,F077601,3,3,DBMXJ03.0N55,Both,300,6,3.0-N55-
F3X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.23,36.4,1,Not
eqipped,DBMX10021713,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01594,0.2034,352.79,0.0128,,0.00484,0.01,25.2,MPG,25.57,23.79,28.37,,38.
8,0.168,0.0176,23.5,-0.034,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,F077601,3,3,DBMXJ03.0N55,Both,300,6,3.0-N55-
F3X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.23,36.4,1,Not
eqipped,DBMX10021714,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.05407,0.4618,224.21,0.0065,,0.00858,0.01,39.7,MPG,,,,,38.8,0.168,0.0176,
23.5,-0.034,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,2,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020561,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01812,0.378,324.6,0.0156,,0.00607,0.01,27.3,MPG,26.34,26.52,29.95,,49.5,
-0.345,0.02276,16.1,0.234,0.01574,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,2,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020563,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04892,0.3899,200.86,0.0096,,0.00699,0.01,44.1,MPG,,,,,49.5,-
0.345,0.02276,16.1,0.234,0.01574,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,3,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020562,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01935,0.2842,329.67,0.0172,,0.00537,0.01,26.9,MPG,26.05,26.07,29.56,,51.
4,-0.345,0.02293,21.3,0.056,0.01807,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,3,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020564,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04135,0.331,205.37,0.0107,,0.00672,0.01,43.2,MPG,,,,,51.4,-
0.345,0.02293,21.3,0.056,0.01807,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,4,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020653,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01652,0.2942,348.26,0.0151,,0.00434,0.01,25.5,MPG,24.94,24.49,28.18,,49.
5,-0.345,0.02276,16.1,0.234,0.01574,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,4,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020667,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.09562,0.8393,207.32,0.0239,,0.01031,0.01,42.6,MPG,,,,,49.5,-
0.345,0.02276,16.1,0.234,0.01574,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,5,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10020665,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01289,0.2248,355.03,0.0154,,0.00313,0.01,25,MPG,24.33,23.96,27.94,,51.4,
-0.345,0.02293,21.3,0.056,0.01807,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335i xDrive,FX59502,5,3,DBMXJ03.0N55,Both,300,6,3.0-N55-F3X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,27.4,1,Not
eqipped,DBMX10021498,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03071,0.4421,205.69,0.0229,,0.00583,0.01,43.1,MPG,,,,,51.4,-
0.345,0.02293,21.3,0.056,0.01807,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Convertible,P157025,4,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E93,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,35.5,1,Not eqipped,BBMX10007802,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02753,0.1427,398.12,0.0204,,0.0054,0.01,22.3,MPG,22.15,21.22,24.7,,39.3,0.48,0.01399,13.6,0.169,0.01566,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Convertible,P157025,4,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E93,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,35.5,1,Not eqipped,BBMX10007803,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00043,0,248.23,0.0018,,0.00013,0.01,35.8,MPG,,,,,39.3,0.48,0.01399,13.6,0.169,0.01566,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Convertible,P157025,7,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E93,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,35.5,1,Not eqipped,BBMX10007920,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0315,0.2632,458.11,0.0295,,0.00581,,19.4,MPG,19.5,18.12,22.29,,39.3,0.48,0.01399,13.6,0.169,0.01566,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Convertible,P157025,7,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E93,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,35.5,1,Not eqipped,BBMX10007921,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00728,0.0325,305.62,0.0038,,0.00395,,29.1,MPG,,,,,39.3,0.48,0.01399,13.6,0.169,0.01566,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Coupe,P157025,5,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E92,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.5,1,Not eqipped,BBMX10007823,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02327,0.0997,389.37,0.0263,,0.00409,,22.9,MPG,22.52,21.75,25.56,,36.4,0.48,0.01325,18.1,-0.033,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Coupe,P157025,5,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E92,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.5,1,Not eqipped,BBMX10007826,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00141,0.0189,249.37,0.0163,,0.00067,,35.7,MPG,,,,,36.4,0.48,0.01325,18.1,-0.033,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Coupe,P157025,6,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E92,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.5,1,Not eqipped,BBMX10007827,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02587,0.0991,456.18,0.0299,,0.00495,,19.5,MPG,19.68,18.15,22.4,,36.4,0.48,0.01325,18.1,-0.033,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,335is Coupe,P157025,6,3,BBMXV03.0ULR,Car,320,6,3.0-D-N54-E92,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.5,1,Not eqipped,BBMX10007828,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00395,0.0149,279.47,0.0048,,0.00117,,31.9,MPG,,,,,36.4,0.48,0.01325,18.1,-0.033,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i,C593806,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F10,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.23,27.8,1,Not eqipped,CBMX10016740,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00715,0.4221,291.97,0.0134,,0.00201,,30.5,MPG,29.6,29.4,33.6,,47.8,-0.357,0.02189,4.4,0.153,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i,C593806,0,2,CBMXV02.0N20,Car,241,4,2.0-N20-F10,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.23,27.8,1,Not eqipped,CBMX10016741,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012,0.1918,180.38,0.0015,,0.00068,,49.4,MPG,,,,,47.8,-0.357,0.02189,4.4,0.153,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i,C593806,1,2,CBMXV02.0N20,Car,241,4,2.0-N20-F10,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.23,27.9,1,Not eqipped,CBMX10017292,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00758,0.2597,286.33,0.0198,,0.00246,0.01,31.1,MPG,30,30,34.5,,51.2,-0.357,0.02187,12.5,0.0221,0.01608,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i,C593806,1,2,CBMXV02.0N20,Car,241,4,2.0-N20-F10,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.23,27.9,1,Not

eqipped,CBMX10017463,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03647,0.2951,193.02,0.0036,,0.00547,0.01,46,MPG,,,,,51.2,-
0.357,0.02187,12.5,0.0221,0.01608,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i,C593806,1,2,CBMXV02.0N20,Car,241,4,2.0-N20-
F10,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.23,27.9,1,Not
eqipped,CBMX10017464,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02798,0.2907,190.45,0.0024,,0.00468,0.01,46.8,MPG,,,,,51.2,-
0.357,0.02187,12.5,0.0221,0.01608,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i xDrive,C593806,2,2,CBMXV02.0N20,Car,241,4,2.0-N20-
X10,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.23,27.9,1,Not
eqipped,CBMX10016917,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00906,0.4176,302.1,0.0183,,0.00125,,29.4,MPG,28.3,28.5,32.2,,50.7,-
0.302,0.02183,13.1,0.196,0.01594,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,528i xDrive,C593806,2,2,CBMXV02.0N20,Car,241,4,2.0-N20-
X10,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.23,27.9,1,Not
eqipped,CBMX10016918,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00687,0.2656,190.65,0.0021,,0.00144,,46.6,MPG,,,,,50.7,-
0.302,0.02183,13.1,0.196,0.01594,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C267652,2,3,CBMXV03.0F10,Car,300,6,3.0-N55-F10,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,35.5,1,Not
eqipped,CBMX10016903,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0128,0.4375,368.27,0.0134,,0.00297,,24.1,MPG,23.8,22.8,27.2,,38.7,0.108,
0.01912,13.3,0.056,0.01849,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C267652,2,3,CBMXV03.0F10,Car,300,6,3.0-N55-F10,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,35.5,1,Not
eqipped,CBMX10016904,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00403,0.1627,215,0.0024,,0.0002,,41.3,MPG,,,,,38.7,0.108,0.01912,13.3,0.
056,0.01849,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C267652,3,3,CBMXV03.0F10,Car,300,6,3.0-N55-F10,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,35.5,1,Not
eqipped,CBMX10017567,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01058,0.1095,213.82,0.0032,,0.0011,0.01,41.5,MPG,,,,,36.7,0.108,0.0185,1
4.7,-0.043,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C267652,3,3,CBMXV03.0F10,Car,300,6,3.0-N55-F10,M,Manual,6,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,35.5,1,Not
eqipped,CBMX10017568,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0159,0.4442,364.72,0.0129,,0.00327,0.01,24.3,MPG,24.2,22.8,27.8,,36.7,0.
108,0.0185,14.7,-0.043,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C800682,0,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.6,1,Not
eqipped,CBMX10017442,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01241,0.1247,336.4,0.0136,,0.00323,0.01,26.5,MPG,25.67,25.32,29.71,,45.2
,-0.211,0.02178,13.6,-0.042,0.01877,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C800682,0,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.6,1,Not
eqipped,CBMX10017443,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03313,0.104,208.04,0.006,,0.0041,0.01,42.8,MPG,,,,,45.2,-
0.211,0.02178,13.6,-0.042,0.01877,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C800682,3,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not
eqipped,CBMX10017444,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01842,0.0755,337.83,0.0147,,0.00324,0.01,26.4,MPG,25.6,25.2,29.5,,47.3,-
0.211,0.02241,16.7,-0.079,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C800682,3,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not
eqipped,CBMX10017445,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0389,0.1084,213.33,0.0074,,0.00485,0.01,41.8,MPG,,,,,47.3,-
0.211,0.02241,16.7,-0.079,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,0,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.6,1,Not eqipped,CBMX10016920,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01417,0.1692,329.56,0.0109,,0.00231,,26.9,MPG,26.3,25.8,29.9,,45.2,-0.211,0.02178,10.3,0.106,0.01711,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,0,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.6,1,Not eqipped,CBMX10016921,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00164,0.0698,201.25,0.0022,,0.00031,,44.2,MPG,,,,,45.2,-0.211,0.02178,10.3,0.106,0.01711,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,1,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX91001223,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011251,0.3011089,216.9896051,0.0028914,,0.0004998,0.01,40.9,MPG,,,,,47.3,-0.211,0.02241,12.5,0.156,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,1,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX91001251,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0168225,0.3061176,382.2395438,0.0092643,,0.004068,0.01,23.3,MPG,22.803233,22.0297017,26.4544909,,47.3,-0.211,0.02241,12.5,0.156,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,1,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX91001267,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0111241,0.3073815,380.8313023,0.013293,,0.0032335,0.01,23.3,MPG,23.4890025,22.1440741,25.8883751,,47.3,-0.211,0.02241,12.5,0.156,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i,C801916,1,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F10,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX91001268,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0092409,0.4423583,222.8229476,0.0029893,,0.0031877,0.01,39.8,MPG,,,,,47.3,-0.211,0.02241,12.5,0.156,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C800682,4,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.6,1,Not eqipped,CBMX10017446,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0146,0.1007,353.9,0.0198,,0.00267,0.01,25.2,MPG,24.7,24.1,27.9,,53.3,-0.279,0.02287,24.4,-0.157,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C800682,4,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.6,1,Not eqipped,CBMX10017447,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0484,0.125,223.61,0.0083,,0.00576,0.01,39.7,MPG,,,,,53.3,-0.279,0.02287,24.4,-0.157,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C800682,5,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX10017448,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01808,0.1175,355.45,0.017,,0.0025,0.01,25.1,MPG,24.8,24,27.5,,55.4,-0.279,0.0235,26.2,-0.096,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C800682,5,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX10017449,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03369,0.0777,225.89,0.0098,,0.00408,0.01,39.4,MPG,,,,,55.4,-0.279,0.0235,26.2,-0.096,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C801916,2,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.7,1,Not eqipped,CBMX10016925,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01443,0.2493,333.96,0.0126,,0.0028,,26.6,MPG,25.8,25.7,29.1,,53.3,-0.279,0.02287,12.3,0.317,0.01538,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C801916,2,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.7,1,Not

eqipped,CBMX10016927,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00872,0.1991,209.35,0.0037,,0.0033,,42.4,MPG,,,,,53.3,-
0.279,0.02287,12.3,0.317,0.01538,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C801916,3,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.8,1,Not
eqipped,CBMX10017222,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01387,0.1426,329.17,0.0127,,0.00251,0.01,27,MPG,26.2,26.1,29.5,,55.4,-
0.279,0.0235,18.8,0.167,0.01758,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C801916,3,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.8,1,Not
eqipped,CBMX10017226,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00211,0.0485,213.95,0.0028,,0.00058,0.01,41.5,MPG,,,,,55.4,-
0.279,0.0235,18.8,0.167,0.01758,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive,C801916,3,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-X10,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.08,26.8,1,Not
eqipped,CBMX10017228,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01355,0.1612,326.42,0.0123,,0.00273,0.01,27.2,MPG,26.1,26.5,29.6,,55.4,-
0.279,0.0235,18.8,0.167,0.01758,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive Gran Turismo,C994902,1,3,DBMXV03.0F10,Car,300,6,3.0-N55-
F07X,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.08,25.7,1,Not
eqipped,DBMX10021808,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02152,0.215,385.56,0.0278,,0.00438,0.01,23.1,MPG,,,,,59.9,-
0.302,0.02559,29,0.056,0.02107,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive Gran Turismo,C994902,1,3,DBMXV03.0F10,Car,300,6,3.0-N55-
F07X,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.08,25.7,1,Not
eqipped,DBMX10021809,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04676,0.2262,248.61,0.0107,,0.0049,0.01,35.8,MPG,,,,,59.9,-
0.302,0.02559,29,0.056,0.02107,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive Gran Turismo,C994902,2,3,DBMXV03.0F10,Car,300,6,3.0-N55-
F07X,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.08,25.7,1,Not
eqipped,DBMX10021810,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03045,0.5193,410.22,0.0165,,0.00644,0.01,21.7,MPG,,,,,59.9,-
0.302,0.02559,29,0.056,0.02107,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,535i xDrive Gran Turismo,C994902,2,3,DBMXV03.0F10,Car,300,6,3.0-N55-
F07X,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.08,25.7,1,Not
eqipped,DBMX10021811,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04992,0.5296,252.29,0.0164,,0.00664,0.01,35.3,MPG,,,,,59.9,-
0.302,0.02559,29,0.056,0.02107,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C270008,0,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-
F10,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,24.4,1,Not
eqipped,BBMX10009559,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02732,0.2108,423.15,0.0229,,0.00315,,21,MPG,21.29,19.47,24.18,,48.7,-
0.161,0.0212,10.7,0.138,0.01712,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C270008,0,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-
F10,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,24.4,1,Not
eqipped,BBMX10009560,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04976,0.3113,251.12,0.0023,,0.00611,,35.3,MPG,,,,,48.7,-
0.161,0.0212,10.7,0.138,0.01712,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C270008,1,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-
F10,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,24.4,1,Not
eqipped,BBMX10009561,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03204,0.2057,437.68,0.0238,,0.00369,,20.3,MPG,20.98,18.57,23.8,,52.2,-
0.161,0.02148,11.2,0.165,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C270008,1,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-
F10,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,24.4,1,Not
eqipped,BBMX10009562,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.05487,0.3073,252.34,0.0045,,0.00779,,35.2,MPG,,,,,52.2,-
0.161,0.02148,11.2,0.165,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C271011,0,4.4,BBMXV04.4N63,Car,400,8,4.4-M-N63-F10,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,34.9,1,Not eqipped,BBMX10007951,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0189,0.4591,488.43,0.0273,,0.00216,,18.1,MPG,18.52,16.75,20.98,,41.8,0.175,0.01841,18.4,-0.146,0.02093,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C271011,0,4.4,BBMXV04.4N63,Car,400,8,4.4-M-N63-F10,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,34.9,1,Not eqipped,BBMX10007952,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03812,0.5451,287.53,0.0031,,,,30.7,MPG,,,,,41.8,0.175,0.01841,18.4,-0.146,0.02093,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C271011,1,4.4,BBMXV04.4N63,Car,400,8,4.4-M-N63-F10,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,34.9,1,Not eqipped,BBMX10007953,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0205,0.5903,487.18,0.0216,,0.00267,,18.2,MPG,18.27,16.81,21.28,,38.4,0.175,0.01814,11.2,0.227,0.01642,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i,C271011,1,4.4,BBMXV04.4N63,Car,400,8,4.4-M-N63-F10,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.08,34.9,1,Not eqipped,BBMX10007954,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05927,0.5814,277.55,0.0026,,,,31.8,MPG,,,,,38.4,0.175,0.01814,11.2,0.227,0.01642,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i Gran Turismo,C996403,6,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F07,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.6,1,Not eqipped,DBMX10021748,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02546,0.3596,435.73,0.115,,0.00651,0.01,20.4,MPG,20.66,19.46,22.38,,55.8,-0.069,0.02319,26.4,0.12,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i Gran Turismo,C996403,6,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F07,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.6,1,Not eqipped,DBMX10021750,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08267,0.6446,271.77,0.0136,,0.01048,0.01,32.6,MPG,,,,,55.8,-0.069,0.02319,26.4,0.12,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i Gran Turismo,C996403,7,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F07,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.6,1,Not eqipped,DBMX10021753,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08691,0.7445,274.29,0.0115,,0.01078,0.01,32.4,MPG,,,,,55.8,-0.069,0.02319,26.4,0.12,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i Gran Turismo,C996403,7,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F07,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.6,1,Not eqipped,DBMX10021768,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03995,0.5061,462.88,0.0105,,0.00973,0.01,19.2,MPG,20.15,17.73,21.99,,55.8,-0.069,0.02319,26.4,0.12,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive,C270008,2,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-F1X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,26.7,1,Not eqipped,BBMX10010710,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02455,0.4523,454.82,0.0185,,0.00312,,19.5,MPG,19.78,18.03,22.64,,52.8,-0.145,0.02198,19.9,0.14,0.01766,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive,C270008,2,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-F1X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,26.7,1,Not eqipped,BBMX10014475,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00095,0.3474,263.12,0.0018,,0.00036,,33.7,MPG,,,,,52.8,-0.145,0.02198,19.9,0.14,0.01766,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive,C270008,3,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-F1X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,26.7,1,Not eqipped,BBMX10010712,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0238,0.3542,457.29,0.0205,,0.00235,,19.4,MPG,19.41,18,22.65,,57.3,-0.14,0.0211,23.9,0.164,0.01648,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive,C270008,3,4.4,BBMXV04.4N63,Car,400,8,4.4-A-N63-F1X,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,26.7,1,Not

eqipped,BBMX10014476,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01345,0.4198,273.58,0.0024,,0.00216,,32.3,MPG,,,,,57.3,-
0.14,0.0211,23.9,0.164,0.01648,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive Gran Turismo,C996403,8,4.4,DBMXV04.4N63,Car,448,8,4.4-
N63T-X07,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration <
1,5250,2.81,23.6,1,Not eqipped,DBMX10020896,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert Gasoline,FTP,0.02223,0.2546,432.48,0.023,,0.00482,0.01,20.5,MPG,,,,,65.3,-
0.401,0.0273,35.1,-0.198,0.0243,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive Gran Turismo,C996403,8,4.4,DBMXV04.4N63,Car,448,8,4.4-
N63T-X07,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration <
1,5250,2.81,23.6,1,Not eqipped,DBMX10020897,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04678,0.3948,275.51,0.0113,,0.00665,0.01,32.1,MPG,,,,,65.3,-
0.401,0.0273,35.1,-0.198,0.0243,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive Gran Turismo,C996403,9,4.4,DBMXV04.4N63,Car,448,8,4.4-
N63T-X07,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration <
1,5250,2.81,23.6,1,Not eqipped,DBMX10020952,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert Gasoline,FTP,0.01907,0.3539,464.43,0.013,,0.00521,0.01,19.1,MPG,,,,,65.3,-
0.401,0.0273,35.1,-0.198,0.0243,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,550i xDrive Gran Turismo,C996403,9,4.4,DBMXV04.4N63,Car,448,8,4.4-
N63T-X07,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration <
1,5250,2.81,23.6,1,Not eqipped,DBMX10020953,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0891,0.5648,277.13,0.0067,,0.0107,0.01,31.9,MPG,,,,,65.3,-
0.401,0.0273,35.1,-0.198,0.0243,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C800682,8,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,28,1,Not eqipped,CBMX10017239,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert
Gasoline,FTP,0.02847,0.1785,340.56,0.0158,,0.00312,0.01,26.1,MPG,25.8,25.3,28.1,,51.2,-
0.37,0.02359,16,-0.111,0.01965,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C800682,8,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,28,1,Not eqipped,CBMX10017240,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04055,0.1316,214.92,0.006,,0.00343,0.01,41.4,MPG,,,,,51.2,-
0.37,0.02359,16,-0.111,0.01965,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C800682,9,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,28,1,Not eqipped,CBMX10017234,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert
Gasoline,FTP,0.01284,0.1059,344.27,0.0149,,0.00246,0.01,25.9,MPG,25.5,24.7,28.8,,52.9,-
0.37,0.02418,18.8,-0.137,0.02036,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C800682,9,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,28,1,Not eqipped,CBMX10017235,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03297,0.1062,218.14,0.0054,,0.00424,0.01,40.8,MPG,,,,,52.9,-
0.37,0.02418,18.8,-0.137,0.02036,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C801916,4,3,CBMXV03.0F10,Car,300,6,3.0-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,27.9,1,Not eqipped,CBMX10016805,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert Gasoline,FTP,0.0173,0.3593,335.15,0.0147,,0.00366,,26.5,MPG,25.8,25.4,29.2,,51.2,-
0.37,0.02359,10.4,0.196,0.01625,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C801916,4,3,CBMXV03.0F10,Car,300,6,3.0-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,27.9,1,Not eqipped,CBMX10016806,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04371,0.4291,206.87,0.0029,,0.00643,,42.7,MPG,,,,,51.2,-
0.37,0.02359,10.4,0.196,0.01625,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C801916,5,3,CBMXV03.0F10,Car,300,6,3.0-N55-
F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,3.23,28,1,Not eqipped,CBMX10017253,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert

Gasoline,FTP,0.01296,0.1542,333.63,0.0155,,0.00277,0.01,26.6,MPG,25.7,25.7,29.4,,52.9,-0.37,0.02418,11.4,0.234,0.01642,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C801916,5,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.23,28,1,Not eqipped,CBMX10017254,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03155,0.3254,212.76,0.005,,0.00493,0.01,41.6,MPG,,,,,52.9,-0.37,0.02418,11.4,0.234,0.01642,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Convertible,C801916,5,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.23,28,1,Not eqipped,CBMX10017286,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01269,0.1515,334.8,0.0134,,0.00248,0.01,26.5,MPG,25.7,25.6,29.2,,52.9,-0.37,0.02418,11.4,0.234,0.01642,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C800682,6,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.9,1,Not eqipped,CBMX10016848,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01425,0.1086,343.14,0.0115,,0.00238,,26,MPG,26,24.7,28.7,,50.2,-0.37,0.02309,17.8,-0.125,0.01912,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C800682,6,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.9,1,Not eqipped,CBMX10016849,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00092,0,208.96,0.0035,,0.00024,,42.6,MPG,,,,,50.2,-0.37,0.02309,17.8,-0.125,0.01912,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C800682,7,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,28,1,Not eqipped,CBMX10016851,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01492,0.1613,341.49,0.0097,,0.00281,,26.1,MPG,25.9,24.8,29.1,,52.1,-0.37,0.02368,20.4,-0.189,0.02049,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C800682,7,3,CBMXV03.0F10,Car,300,6,3.0-A-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,28,1,Not eqipped,CBMX10016852,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01924,0.0526,212.44,0.003,,0.00269,,42,MPG,,,,,52.1,-0.37,0.02368,20.4,-0.189,0.02049,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,6,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.9,1,Not eqipped,CBMX10017236,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01555,0.1627,320.91,0.0118,,0.00299,0.01,27.6,MPG,27.3,26.9,29.4,,50.2,-0.37,0.02309,14.1,0.119,0.01656,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,6,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.9,1,Not eqipped,CBMX10017237,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01029,0.0901,202.77,0.0034,,0.00249,0.01,43.7,MPG,,,,,50.2,-0.37,0.02309,14.1,0.119,0.01656,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,6,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.9,1,Not eqipped,CBMX10017238,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01366,0.1497,329.01,0.0138,,0.00292,0.01,27,MPG,26.5,26.3,28.8,,50.2,-0.37,0.02309,14.1,0.119,0.01656,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,7,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,28,1,Not eqipped,CBMX10016796,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01682,0.1917,328.4,0.0161,,0.00273,,27,MPG,26.6,25.9,29.9,,50.2,-0.37,0.02368,13.5,0.177,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,7,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,28,1,Not eqipped,CBMX10016797,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03251,0.2835,205.5,0.0041,,0.00488,,43,MPG,,,,,50.2,-0.37,0.02368,13.5,0.177,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,640i Coupe,C801916,7,3,CBMXV03.0F10,Car,300,6,3.0-N55-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,28,1,Not eqipped,CBMX10016833,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01401,0.1625,327.01,0.0168,,0.00273,,27.1,MPG,26.7,26,30,,50.2,-0.37,0.02368,13.5,0.177,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Convertible,DW20000,4,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021770,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0228,0.388,405.25,0.0187,,0.00537,0.01,22,MPG,21.67,20.68,25.23,,50.1,-0.071,0.02175,15.6,0.119,0.01767,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Convertible,DW20000,4,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021773,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.06611,0.7686,252.2,0.0138,,0.00964,0.01,35.2,MPG,,,,,50.1,-0.071,0.02175,15.6,0.119,0.01767,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Convertible,DW20000,5,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021445,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0296,0.4194,458.13,0.0229,,0.00776,0.01,19.4,MPG,,,,,50.1,-0.071,0.02175,15.6,0.162,0.01767,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Convertible,DW20000,5,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021774,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05672,0.4315,267.9,0.0076,,0.00847,0.01,33.2,MPG,,,,,50.1,-0.071,0.02175,15.6,0.162,0.01767,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Coupe,DW20000,0,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.81,23.6,1,Not eqipped,DBMX10020906,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02242,0.2702,402.1,0.0247,,0.00623,0.01,22.1,MPG,,,,,49.1,-0.071,0.02131,16.4,0.134,0.01751,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Coupe,DW20000,0,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.81,23.6,1,Not eqipped,DBMX10020907,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05601,0.528,251.1,0.0087,,0.00882,0.01,35.2,MPG,,,,,49.1,-0.071,0.02131,16.4,0.134,0.01751,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Coupe,DW20000,1,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.81,23.6,1,Not eqipped,DBMX10020910,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01824,0.3209,435.12,0.017,,0.00366,0.01,20.4,MPG,,,,,49.1,-0.071,0.02131,16.4,0.134,0.01751,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i Coupe,DW20000,1,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.81,23.6,1,Not eqipped,DBMX10020911,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03626,0.4228,254.3,0.0057,,0.00644,0.01,34.9,MPG,,,,,49.1,-0.071,0.02131,16.4,0.134,0.01751,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i xDrive Coupe,DW20000,2,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021769,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02396,0.3272,424.2,0.0295,,0.00601,0.01,21,MPG,20.76,19.91,23.7,,60.2,-0.416,0.02295,28.3,-0.132,0.02176,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,650i xDrive Coupe,DW20000,2,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.81,23.6,1,Not eqipped,DBMX10021777,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08238,0.887,268.78,0.0179,,0.01226,0.01,33,MPG,,,,,60.2,-0.416,0.02295,28.3,-0.132,0.02176,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li,C994902,4,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.08,25.7,1,Not eqipped,DBMX10021812,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.05064,0.3005,219.65,0.0071,,0.00562,0.01,40.4,MPG,,,,,50.7,-
0.203,0.02183,16.3,0.102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li,C994902,4,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10021813,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01173,0.1072,377.04,0.0135,,0.00222,0.01,23.7,MPG,,,,,50.7,-
0.203,0.02183,16.3,0.102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li,C994902,5,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10022039,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02049,0.3123,369.8,0.0179,,0.00439,0.01,24.1,MPG,,,,,50.7,-
0.203,0.02183,16.3,0.102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li,C994902,5,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10022040,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04135,0.4183,226.18,0.0127,,0.00557,0.01,39.3,MPG,,,,,50.7,-
0.203,0.02183,16.3,0.102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li xDrive,C994903,1,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10021425,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02203,0.3224,362.85,0.0149,,0.00396,0.01,24.5,MPG,24.35,23.48,26.93,,58.
4,-0.302,0.02183,26.6,0.005,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li xDrive,C994903,1,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10021426,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03112,0.2843,228.15,0.0108,,0.00423,0.01,39,MPG,,,,,58.4,-
0.302,0.02183,26.6,0.005,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li xDrive,C994903,6,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10021815,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.002245,0.4889,380.32,0.0131,,0.00497,0.01,23.4,MPG,,,,,58.4,-
0.302,0.02183,26.6,0.005,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,740Li xDrive,C994903,6,3,DBMXV03.0F10,Car,300,6,3.0-N55-F02X,SA,Semi-
Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.08,25.7,1,Not
eqipped,DBMX10021816,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.06301,0.446,227.06,0.0119,,0.00694,0.01,39.1,MPG,,,,,58.4,-
0.302,0.02183,26.6,0.005,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750i,C996403,0,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F01,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not
eqipped,DBMX10021728,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02357,0.2987,428.57,0.0153,,0.00563,0.01,20.7,MPG,21.27,19.44,23.13,,52.
6,-0.069,0.02055,21.9,0.127,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750i,C996403,0,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F01,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not
eqipped,DBMX10021729,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.06027,0.5152,258.54,0.0071,,0.00873,0.01,34.2,MPG,,,,,52.6,-
0.069,0.02055,21.9,0.127,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750i,C996403,1,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F01,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not
eqipped,DBMX10021730,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01776,0.3833,442.6,0.0101,,0.00518,0.01,20.1,MPG,21,18.64,22.84,,52.6,-
0.069,0.02055,21.9,0.127,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750i,C996403,1,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F01,SA,Semi-
Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.81,23.6,1,Not
eqipped,DBMX10021731,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.07476,0.6508,259.04,0.0097,,0.00976,0.01,34.3,MPG,,,,,52.6,-
0.069,0.02055,21.9,0.127,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li,C996403,2,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F02,SA,Semi-

Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021733,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0651,0.5179,259.7,0.0115,,0.00893,0.01,34.2,MPG,,,,,53.1,-0.069,0.02056,22.8,0.153,0.01742,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li,C996403,2,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F02,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021734,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02449,0.3705,440.07,0.0113,,0.00546,0.01,20.2,MPG,21.25,18.96,22.32,,53.1,-0.069,0.02056,22.8,0.153,0.01742,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li,C996403,3,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F02,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021735,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02746,0.4293,475.09,0.0127,,0.006,0.01,18.8,MPG,20,17.31,21.09,,53.1,-0.069,0.02056,22.8,0.153,0.01742,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li,C996403,3,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-F02,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021736,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.09437,0.7863,274.04,0.0132,,0.01102,0.01,32.4,MPG,,,,,53.1,-0.069,0.02056,22.8,0.153,0.01742,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li xDrive,C996403,4,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X02,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021739,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02313,0.2751,430.34,0.0135,,0.0059,0.01,20.7,MPG,20.99,19.6,22.9,,63.6,-0.401,0.02504,33,-0.174,0.02171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li xDrive,C996403,4,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X02,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021740,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.07363,0.5996,264.55,0.0106,,0.00985,0.01,33.5,MPG,,,,,63.6,-0.401,0.02504,33,-0.174,0.02171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li xDrive,C996403,5,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X02,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021742,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02773,0.4526,458.5,0.0114,,0.00665,0.01,19.4,MPG,20.05,18.04,22.07,,63.6,-0.401,0.02504,33,-0.174,0.02171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,750Li xDrive,C996403,5,4.4,DBMXV04.4N63,Car,448,8,4.4-N63T-X02,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,2.81,23.6,1,Not eqipped,DBMX10021743,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.08127,0.7713,267.97,0.0172,,0.01073,0.01,33.1,MPG,,,,,63.6,-0.401,0.02504,33,-0.174,0.02171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,760Li,CY40013,3,6,DBMXV06.0N74,Car,535,12,6.0-N74T-F02,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.4,1,Not eqipped,DBMX10021737,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03,0.0781,574.75,0.0353,,0.00675,0.01,15.5,MPG,16.13,14.07,18.59,,55.5,0.001,0.02041,18.1,0.146,0.01806,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,760Li,CY40013,3,6,DBMXV06.0N74,Car,535,12,6.0-N74T-F02,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.81,23.4,1,Not eqipped,DBMX10021738,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03927,0.3641,316.09,0.0034,,0.01009,0.01,28.2,MPG,,,,,55.5,0.001,0.02041,18.1,0.146,0.01806,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 3,F145016,0,3,DBMXV03.0AH3,Car,300,6,3.0-N55-F30H,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.81,25,1,Not eqipped,DBMX10020453,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02339,0.4727,283.96,0.0341,,0.00586,0.01,31.2,MPG,22.31,40.57,25.99,44,47.7,-0.278,0.02147,19.1,0.111,0.02147,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 3,F145016,0,3,DBMXV03.0AH3,Car,300,6,3.0-N55-F30H,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.81,25,1,Not eqipped,DBMX10020454,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00638,0.1411,199.28,0.0034,,0.00244,0.01,44.6,MPG,,,,,47.7,-0.278,0.02147,19.1,0.111,0.02147,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 3,F145016,1,3,DBMXV03.0AH3,Car,300,6,3.0-N55-F30H,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.81,25,1,Not eqipped,DBMX10022060,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02971,0.3467,262.63,0.0076,,0.00555,0.01,33.8,MPG,26.56,43.07,27.5,45.22,43.3,-0.267,0.02046,22,-0.612,0.02379,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 3,F145016,1,3,DBMXV03.0AH3,Car,300,6,3.0-N55-F30H,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.81,25,1,Not eqipped,DBMX10022061,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00383,0.0766,184.22,0.0035,,0,0.01,48.5,MPG,,,,,43.3,-0.267,0.02046,22,-0.612,0.02379,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX10016999,No,11,Cold CO,25,Cold CO Premium (CERT),FTP,0.11164,0.8602,351.06,0.0113,,0.01262,,25.3,MPG,18.5,30.8,23.7,,54.2,-0.231,0.02301,5.1,0.156,0.01765,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX10017229,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01263,0.3899,391.34,0.0144,,0.00393,,22.8,MPG,,,,,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001236,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0375177,0.8598544,325.08889,0.0233388,,0.0105957,,27.3,MPG,17.226322,32.72227,,,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001237,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0166033,0.4926467,308.87385,0.0102665,,0.004057,0.01,28.7,MPG,22.788093,36.342486,24.116011,36.199367,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001238,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0010576,0.2464869,211.76469,0.0053795,,0.0011245,0.01,41.9,MPG,,,,,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001276,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0146515,0.2303904,211.00119,0.0051031,,0.0048004,0.01,42.1,MPG,,,,,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001277,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0328479,1.0518937,326.8325,0.0342529,,0.0087703,,27.1,MPG,16.941297,32.690261,,,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 5,C751520,0,3,CBMXV03.0AH5,Car,300,6,3.0-N55-F10H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.93,25.4,1,Not eqipped,CBMX91001286,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0157942,0.4528884,318.3974551,0.0095171,,0.004828,0.01,27.9,MPG,21.2865777,34.9441305,23.2612702,37.3503251,48.8,-0.208,0.02071,-2.2,0.266,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10020786,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.00274,0.1412,327.44,0.0162,,0.00031,,27.2,MPG,17.02,32.66,,,51.1,-0.2,0.02083,20.5,0.08,0.02083,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10021171,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00172,0.2726,390.36,0.0105,,0.00121,,22.8,MPG,,,,51.1,-0.2,0.02083,20.5,0.08,0.02083,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10021172,No,11,Cold CO,25,Cold CO Premium (CERT),FTP,0.0909,0.5271,386.75,0.0175,,0.01011,,23,MPG,18.43,26.64,21.46,,56.8,-0.222,0.02315,22.7,0.089,0.02315,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10022821,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01268,0.0735,205.12,0.0029,,0.00201,0.01,43.5,MPG,,,,51.1,-0.2,0.02083,20.5,0.08,0.02083,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10022845,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02736,0.1847,319.35,0.0097,,0.00602,0.01,27.9,MPG,21.86,35.39,23.35,35.64,51.1,-0.2,0.02083,20.5,0.08,0.02083,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,0,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10022846,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02785,0.0908,208.07,0.0032,,0.0027,0.01,42.8,MPG,,,,51.1,-0.2,0.02083,20.5,0.08,0.02083,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,1,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10022818,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0223,0.2827,310.71,0.008,,0.0043,0.01,28.6,MPG,21.48,37.13,23.83,38.25,48,-0.208,0.0218,9.6,0.069,0.01791,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,ActiveHybrid 7,DD85512,1,3,DBMXV03.0AH5,Car,300,6,3.0-N55-F02H,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.08,25.7,1,Not eqipped,DBMX10022819,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00046,0.0678,206.88,0.0027,,0.00009,0.01,43.1,MPG,,,,48,-0.208,0.0218,9.6,0.069,0.01791,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39002,0,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.15,25.2,1,Not eqipped,ABMX09009796,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.002,0.034,308.29,0.007,,,,28.9,MPG,,,,36.2,0.291,0.01712,27.5,-0.648,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39002,0,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.15,25.2,1,Not eqipped,ABMX09009797,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04645,0.18295,490.15,0.03995,,0.0087,,18.1,MPG,,,,36.2,0.291,0.01712,27.5,-0.648,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39002,2,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.15,25.2,1,Not eqipped,ABMX01084095,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04703,0.2058,555.96,0.0311,,0.00894,,16,MPG,,,,36.2,0.291,0.01712,27.5,-0.648,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39002,2,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.15,25.2,1,Not eqipped,ABMX01084096,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00101,0.0442,328.38,0.0041,,,,27.1,MPG,,,,36.2,0.291,0.01712,27.5,-0.648,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39005,1,4,ABMXV04.0S65,Car,414,8,4.0-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.85,27.4,1,Not eqipped,ABMX01079068,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03276,0.1346,516.75,0.0261,,0.00597,,17.2,MPG,,,,38.4,0.161,0.01718,20.

2,-0.142,0.01892,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3,PY39005,1,4,ABMXV04.0S65,Car,414,8,4.0-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.85,27.4,1,Not eqipped,ABMX01079069,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00245,0.0745,311.79,0.0034,,,,28.4,MPG,,,,,38.4,0.161,0.01718,20.2,-0.142,0.01892,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39002,1,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.15,25.2,1,Not eqipped,ABMX01083999,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04785,0.2852,497.13,0.04,,,,17.9,MPG,,,,,39.3,0.291,0.01694,27.5,-0.676,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39002,1,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.15,25.2,1,Not eqipped,ABMX01084000,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01464,0.1196,313.96,0.0065,,,,28.3,MPG,,,,,39.3,0.291,0.01694,27.5,-0.676,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39002,3,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.15,25.2,1,Not eqipped,ABMX01084142,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04209,0.205,568.92,0.0204,,0.00772,,15.6,MPG,,,,,39.3,0.291,0.01694,27.5,-0.676,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39002,3,4,ABMXV04.0S65,Car,414,8,4.0-D,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.15,25.2,1,Not eqipped,ABMX01084143,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00057,0.0385,335.31,0.0039,,,,26.5,MPG,,,,,39.3,0.291,0.01694,27.5,-0.676,0.02585,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39005,0,4,ABMXV04.0S65,Car,414,8,4.0-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.85,27.4,1,Not eqipped,ABMX09008756,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02536,0.391,324.71,0.0033,,0.01,0.01,27.3,MPG,,,,,41.8,0.161,0.01898,21.3,-0.089,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M3 Convertible,PY39005,0,4,ABMXV04.0S65,Car,414,8,4.0-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.85,27.4,1,Not eqipped,ABMX09008757,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.05251,0.3158,534.16,0.02789,,0.0085,0.01,16.6,MPG,16.87,15.43,19.3,,41.8,0.161,0.01898,21.3,-0.089,0.02032,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772210,0,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,35.1,1,Not eqipped,CBMX10017622,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01463,0.6625,485.57,0.0156,,0.00309,0.01,18.2,MPG,18.9,16.8,21,,39.2,0.184,0.01906,12,-0.236,0.02207,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772210,0,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,35.1,1,Not eqipped,CBMX10017625,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.06319,0.6115,294.7,0.0048,,0.01317,0.01,30,MPG,,,,,39.2,0.184,0.01906,12,-0.236,0.02207,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772213,0,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not eqipped,CBMX10017563,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02792,0.6372,450.2,0.0233,,0.00388,0.01,19.7,MPG,19.8,18.4,22.4,,34.3,0.504,0.01593,15.7,-0.262,0.02233,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772213,0,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not eqipped,CBMX10017565,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00051,0.46,274.86,0.0055,,0,0.01,32.2,MPG,,,,,34.3,0.504,0.01593,15.7,-0.262,0.02233,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772213,1,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not

eqipped,CBMX10019888,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03356,0.7336,602.28,0.0268,,0.00706,0.01,14.7,MPG,15.4,13.4,17.4,,34.3,0
.504,0.01593,15.7,-0.262,0.02233,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M5,C772213,1,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-
Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not
eqipped,CBMX10019893,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04363,0.6456,351.27,0.0087,,0.01179,0.01,25.2,MPG,,,,,34.3,0.504,0.01593
,15.7,-0.262,0.02233,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772210,1,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-
M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,35.1,1,Not
eqipped,CBMX10017639,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02048,0.5789,496.39,0.0179,,0.00552,0.01,17.9,MPG,18,16.6,20.8,,40,0.184
,0.01962,12,-0.236,0.02207,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772210,1,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-
M,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,35.1,1,Not
eqipped,CBMX10017640,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0873,0.6926,295.43,0.0069,,0.01472,0.01,30,MPG,,,,,40,0.184,0.01962,12,-
0.236,0.02207,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772213,2,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-
Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not
eqipped,CBMX10017641,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02324,0.5678,446.79,0.0248,,0.00305,0.01,19.8,MPG,19.7,18.8,22.4,,35.2,0
.505,0.01649,15.8,-0.453,0.02473,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772213,2,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-
Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not
eqipped,CBMX10017642,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00325,0.4786,273.25,0.0102,,0.00111,0.01,32.4,MPG,,,,,35.2,0.505,0.01649
,15.8,-0.453,0.02473,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772213,3,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-
Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not
eqipped,CBMX10019895,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02124,0.6619,610.51,0.0293,,0.00428,0.01,14.5,MPG,15.4,13.1,17.3,,35.2,0
.505,0.01649,15.8,-0.453,0.02473,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,M6 Convertible,C772213,3,4.4,CBMXV04.4S63,Car,553,8,4.4-S63-D,SA,Semi-
Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.15,27,1,Not
eqipped,CBMX10019896,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04169,0.6267,354.67,0.0106,,0.01195,0.01,24.9,MPG,,,,,35.2,0.505,0.01649
,15.8,-0.453,0.02473,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 sDrive28i,VL64015,1,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-
Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.2,28,1,Not
eqipped,DBMX10021495,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01718,0.6929,307.64,0.0155,,0.00439,0.01,28.9,MPG,28.01,27.9,31.78,,49.5
,-0.386,0.02543,14.8,0.177,0.01815,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 sDrive28i,VL64015,1,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-
Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.2,28,1,Not
eqipped,DBMX10021496,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02941,0.3534,194.58,0.0085,,0.00497,0.01,45.6,MPG,,,,,49.5,-
0.386,0.02543,14.8,0.177,0.01815,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 sDrive28i,VL64015,3,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-
Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.2,28,1,Not
eqipped,DBMX10021532,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01144,0.3341,294.14,0.0128,,0.00229,0.01,30.2,MPG,29.6,30,30.93,,49.5,-
0.386,0.02543,14.8,0.177,0.01815,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 sDrive28i,VL64015,3,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-
Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.2,28,1,Not
eqipped,DBMX10021533,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01867,0.162,187.85,0.0022,,0.00285,0.01,47.2,MPG,,,,,49.5,-
0.386,0.02543,14.8,0.177,0.01815,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive28i,VL64015,0,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-Automatic,8,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.2,28,1,Not eqipped,DBMX10021491,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.014,0.5835,340.63,0.0155,,0.00314,0.01,26,MPG,25.7,24.74,29.67,,53.1,-0.306,0.02493,15.2,0.333,0.01726,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive28i,VL64015,0,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-Automatic,8,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.2,28,1,Not eqipped,DBMX10021492,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03856,0.3587,205.75,0.0089,,0.00686,0.01,43,MPG,,,,,53.1,-0.306,0.02493,15.2,0.333,0.01726,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive28i,VL64015,2,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-Automatic,8,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.2,28,1,Not eqipped,DBMX10021493,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00843,0.2919,313.67,0.0165,,0.00162,0.01,28.3,MPG,27.01,27.6,31.39,,53.1,-0.306,0.02493,15.2,0.333,0.01726,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive28i,VL64015,2,2,DBMXV02.0N20,Car,241,,2.0-N20-E84,SA,Semi-Automatic,8,N,A,All Wheel Drive,2,Top gear ration < 1,4000,3.2,28,1,Not eqipped,DBMX10021494,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02711,0.3058,203.91,0.0072,,0.00435,0.01,43.5,MPG,,,,,53.1,-0.306,0.02493,15.2,0.333,0.01726,,,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive35i,VL63554,0,3,CBMXJ03.0N55,Both,300,6,3.0-N55-E84,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.64,33.4,1,Not eqipped,CBMX10012473,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01785,0.2125,395.82,0.0071,,0.00337,,22.4,MPG,,,,,40.2,0.441,0.01787,16.8,0.136,0.01919,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X1 xDrive35i,VL63554,0,3,CBMXJ03.0N55,Both,300,6,3.0-N55-E84,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.64,33.4,1,Not eqipped,CBMX10012474,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01043,0.0788,239.22,0.0013,,0.00365,,37.1,MPG,,,,,40.2,0.441,0.01787,16.8,0.136,0.01919,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive28i,LK59506,0,2,DBMXJ02.0N20,Both,241,4,2.0-N20-X25,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.38,28.3,1,Not eqipped,DBMX10019591,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01356,1.0379,328.21,0.014,,0.00422,0.01,27,MPG,26.06,26.35,26.97,,55,-0.342,0.02921,18.3,0.126,0.02339,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive28i,LK59506,0,2,DBMXJ02.0N20,Both,241,4,2.0-N20-X25,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.38,28.3,1,Not eqipped,DBMX10019592,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05787,1.0894,224.13,0.003,,0.01143,0.01,39.4,MPG,,,,,55,-0.342,0.02921,18.3,0.126,0.02339,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive35i,LL15022,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-F25,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.38,28.2,1,Not eqipped,BBMX91000728,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0342144,0.2643622,250.2012308,0.0027176,,0.0055418,0.01,35.5,MPG,,,,,56.1,-0.342,0.0297,22.4,0.137,0.0297,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive35i,LL15022,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-F25,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.38,28.2,1,Not eqipped,BBMX91000729,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.018835,0.468535,379.1306399,0.010294,,0.0049753,0.01,23.4,MPG,22.6734821,22.6042569,25.6267062,,56.1,-0.342,0.0297,22.4,0.137,0.0297,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive35i,LL15022,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-F25,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.38,28.2,1,Not eqipped,BBMX91000755,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0153941,0.1958344,372.9927851,0.0106569,,0.0034438,,23.8,MPG,23.2215848,23.099796,25.7173297,,56.1,-0.342,0.0297,22.4,0.137,0.0297,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X3 xDrive35i,LL15022,0,3,BBMXJ03.0N55,Both,300,6,3.0-A-N55-F25,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.38,28.2,1,Not

eqipped,BBMX91000756,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0362992,0.6218534,241.5423528,0.0022814,,0.0078893,,36.5,MPG,,,,,56.1,-
0.342,0.0297,22.4,0.137,0.0297,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive35i,LL58001,0,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.15,25.4,1,Not
eqipped,BBMX91000513,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0411927,1.1170709,274.576399,0.0040312,,0.0092098,0.01,32.1,MPG,,,,,69.2
,-0.424,0.03089,25.6,0.007,0.02583,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive35i,LL58001,0,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.15,25.4,1,Not
eqipped,BBMX91000514,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0228749,0.498358,450.6821991,0.0099928,,0.0050285,0.01,19.7,MPG,19.17578
47,18.8577313,21.8768566,,69.2,-0.424,0.03089,25.6,0.007,0.02583,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive35i,LL58001,0,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.15,25.4,1,Not
eqipped,BBMX91000552,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0230875,1.0064821,274.7464566,0.0034972,,0.0047076,,32.1,MPG,,,,,69.2,-
0.424,0.03089,25.6,0.007,0.02583,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive35i,LL58001,0,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.15,25.4,1,Not
eqipped,BBMX91000553,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0283159,0.6403254,455.9432502,0.0101588,,0.0057634,,19.4,MPG,18.8886799,
18.6503333,21.6084297,,69.2,-0.424,0.03089,25.6,0.007,0.02583,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive50i,LL67500,0,4.4,BBMXT04.4E71,Truck,400,8,4.4-A-N63-
E70,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.15,25.4,1,Not
eqipped,BBMX10007853,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01672,0.2372,521.68,0.0195,,0.00268,0.01,17,MPG,17.17,15.96,19.41,,67.2,
-0.24,0.03171,20.6,0.161,0.02634,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDrive50i,LL67500,0,4.4,BBMXT04.4E71,Truck,400,8,4.4-A-N63-
E70,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.15,25.4,1,Not
eqipped,BBMX10007854,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04346,0.285,316.7,0.0032,,0.00649,0.01,28,MPG,,,,,67.2,-
0.24,0.03171,20.6,0.161,0.02634,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDriveM,LK25003,0,4.4,ABMXT04.4S63,Truck,555,8,4.4-E70-S63,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.91,32.6,1,Not
eqipped,ABMX91000230,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0309975,0.5927623,600.3461826,0.0098886,,0.005127,0.01,14.8,MPG,14.80107
89,13.9092724,16.7309456,,62.2,0.296,0.02679,33.5,-0.103,0.02909,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X5 xDriveM,LK25003,0,4.4,ABMXT04.4S63,Truck,555,8,4.4-E70-S63,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.91,32.6,1,Not
eqipped,ABMX91000232,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0461362,0.6722118,386.9565727,0.0025632,,0.0144234,0.01,22.9,MPG,,,,,62.
2,0.296,0.02679,33.5,-0.103,0.02909,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDrive35i,LL58001,1,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.15,25.4,1,Not
eqipped,BBMX10010999,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.11647,1.7355,262.19,0.0067,,,,33.5,MPG,,,,,69.8,-
0.467,0.03275,12.1,0.115,0.02556,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDrive35i,LL58001,1,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.15,25.4,1,Not
eqipped,BBMX10011000,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02165,0.274,409.52,0.012,,0.00483,,21.6,MPG,21.25,21.04,23.64,,69.8,-
0.467,0.03275,12.1,0.115,0.02556,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDrive35i,LL58001,1,3,BBMXT03.0E70,Truck,300,6,3.0-A-N55-
E70,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.15,25.4,1,Not
eqipped,BBMX10011008,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.09047,1.3283,265.61,0.0053,,,,33.1,MPG,,,,,69.8,-
0.467,0.03275,12.1,0.115,0.02556,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDrive50i,LL67500,1,4.4,BBMXT04.4E71,Truck,400,8,4.4-A-N63-
E71,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.15,25.4,1,Not
eqipped,BBMX10007980,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02192,0.2287,499.95,0.0222,,0.00374,0.01,17.8,MPG,17.53,16.75,20.35,,68.
7,-0.261,0.03008,22.1,0.155,0.02435,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDrive50i,LL67500,1,4.4,BBMXT04.4E71,Truck,400,8,4.4-A-N63-
E71,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.15,25.4,1,Not
eqipped,BBMX10010967,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04204,0.2483,307.51,0.0032,,0.00457,0.01,28.8,MPG,,,,,68.7,-
0.261,0.03008,22.1,0.155,0.02435,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDriveM,LK25003,1,4.4,ABMXT04.4S63,Truck,555,8,4.4-E71-S63,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.91,32.6,1,Not
eqipped,ABMX10004554,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02527,0.354,553.27,0.0182,,0.0062,,16,MPG,,,,,62,0.296,0.02608,30.7,-
0.029,0.02793,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,X6 xDriveM,LK25003,1,4.4,ABMXT04.4S63,Truck,555,8,4.4-E71-S63,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.91,32.6,1,Not
eqipped,ABMX10004555,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.04768,0.4385,372.42,0.0053,,,,23.7,MPG,,,,,62,0.296,0.02608,30.7,-
0.029,0.02793,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E716500,0,2,CBMXV02.0N20,Car,241,4,2.0-A-N20-
E89,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,28.3,1,Not
eqipped,CBMX91001231,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0137306,0.7359113,317.6040369,0.0169074,,0.0050197,0.01,27.9,MPG,27.8051
294,26.5591721,31.077681,,53.3,-0.498,0.02258,23.1,-0.285,0.02,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E716500,0,2,CBMXV02.0N20,Car,241,4,2.0-A-N20-
E89,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,28.3,1,Not
eqipped,CBMX91001232,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0473863,1.0323182,190.6767543,0.006344,,0.0075132,0.01,46.2,MPG,,,,,53.3
,-0.498,0.02258,23.1,-0.285,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E716500,0,2,CBMXV02.0N20,Car,241,4,2.0-A-N20-
E89,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,28.3,1,Not
eqipped,CBMX91001263,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0156084,0.9460477,315.7339889,0.0198193,,0.0066815,0.01,28,MPG,28.235992
9,26.5847882,31.1890223,,53.3,-0.498,0.02258,23.1,-0.285,0.02,TWC,Three-way
catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E716500,0,2,CBMXV02.0N20,Car,241,4,2.0-A-N20-
E89,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,28.3,1,Not
eqipped,CBMX91001264,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0602029,1.1946684,185.4932276,0.007201,,0.0105172,0.01,47.6,MPG,,,,,53.3
,-0.498,0.02258,23.1,-0.285,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E717000,0,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-
E89,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.72,34.9,1,Not
eqipped,CBMX10014872,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00738,0.2602,315.89,0.0155,,0.00167,,28.1,MPG,28.52,26.28,31.85,,37.5,0.
121,0.01623,19.6,-0.001,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive28i,E717000,0,2,CBMXV02.0N20,Car,241,4,2.0-M-N20-
E89,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.72,34.9,1,Not
eqipped,CBMX10017219,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.09932,1.3347,184.61,0.0013,,0.01375,0.01,47.6,MPG,,,,,37.5,0.121,0.01623
,19.6,-0.001,0.01619,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35i,E381819,0,3,BBMXV03.054R,Car,300,6,3.0-M-N54-
E89,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.08,37.2,1,Not
eqipped,BBMX10007329,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06128,1.7049,378.69,0.0351,,0.01196,,23.3,MPG,23.12,22.12,26.23,,41.1,0.
183,0.01637,16.8,0.095,0.01578,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35i,E381819,0,3,BBMXV03.054R,Car,300,6,3.0-M-N54-E89,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.08,37.2,1,Not eqipped,BBMX10007330,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00378,0.0893,243.23,0.0054,,,,36.6,MPG,,,,,41.1,0.183,0.01637,16.8,0.095,0.01578,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35is,E381818,0,3,BBMXV03.054R,Car,335,6,3.0-D-N54-P89,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.3,1,Not eqipped,BBMX10007630,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00225,0.0213,235.78,0.0028,,0.0012,0.01,37.6,MPG,,,,,35.2,0.462,0.014,20.5,-0.024,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35is,E381818,0,3,BBMXV03.054R,Car,335,6,3.0-D-N54-P89,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.3,1,Not eqipped,BBMX10007631,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.05201,0.3351,374.05,0.0274,,0.00635,0.01,23.7,MPG,23.52,22.45,26.54,,35.2,0.462,0.014,20.5,-0.024,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35is,E381818,1,3,BBMXV03.054R,Car,335,6,3.0-D-N54-P89,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.3,1,Not eqipped,BBMX10007804,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06009,0.8258,454.03,0.0295,,0.02039,,19.5,MPG,19.51,18.23,22.26,,35.2,0.462,0.014,20.5,-0.024,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,BMW,Z4 sDrive35is,E381818,1,3,BBMXV03.054R,Car,335,6,3.0-D-N54-P89,SA,Semi-Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.56,35.3,1,Not eqipped,BBMX10007805,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02294,0.3749,304.74,0.0158,,,,29,MPG,,,,,35.2,0.462,0.014,20.5,-0.024,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,0,1.6,DBMXV01.6N18,Car,211,4,1.6-A-N18-R56,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.3,1,Not eqipped,DBMX10020043,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01224,0.2631,284.56,0.01,,0.00258,0.01,31.1,MPG,28.68,30.3,35.5,,38.1,0.099,0.01759,10.4,-0.119,0.01969,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,0,1.6,DBMXV01.6N18,Car,211,4,1.6-A-N18-R56,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.3,1,Not eqipped,DBMX10020044,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00966,0.1476,189.14,0.0055,,0.00273,0.01,46.9,MPG,,,,,38.1,0.099,0.01759,10.4,-0.119,0.01969,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,1,1.6,DBMXV01.6N18,Car,208,4,1.6-A-N18-R57,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,DBMX10020549,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01689,0.4417,303.1,0.0106,,0.00359,0.01,29.3,MPG,27.76,28.02,33.36,,39.2,0.099,0.0182,6.5,0.114,0.01718,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,1,1.6,DBMXV01.6N18,Car,208,4,1.6-A-N18-R57,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,DBMX10020550,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0071,0.1616,198.54,0.0112,,0.002,0.01,44.6,MPG,,,,,39.2,0.099,0.0182,6.5,0.114,0.01718,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,2,1.6,DBMXV01.6N18,Car,208,4,1.6-A-N18-R55,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.68,35.3,1,Not eqipped,DBMX10020552,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01123,0.3096,302.42,0.0111,,0.00255,0.01,29.4,MPG,27.82,28.12,33.39,,39.9,0.099,0.01685,7.5,0.109,0.01583,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T379400,2,1.6,DBMXV01.6N18,Car,208,4,1.6-A-N18-R55,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.68,35.3,1,Not eqipped,DBMX10020553,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00272,0.0795,193.08,0.0151,,0.0011,0.01,46,MPG,,,,,39.9,0.099,0.01685,7.5,0.109,0.01583,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T384700,0,1.6,DBMXV01.6N18,Car,211,4,1.6-M-N18-R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,43.2,1,Not eqipped,DBMX10020029,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00924,0.2714,282.67,0.0157,,0.00215,0.01,31.3,MPG,29.74,30.3,35.09,,33.7,0.135,0.01736,18.5,-0.175,0.01941,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works,T384700,0,1.6,DBMXV01.6N18,Car,211,4,1.6-M-N18-R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,43.2,1,Not eqipped,DBMX10020030,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00499,0.0588,187.25,0.0023,,0.00229,0.01,47.5,MPG,,,,,33.7,0.135,0.01736,18.5,-0.175,0.01941,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works All4 Countryman,WL99204,0,1.6,DBMXV01.6N18,Car,214,4,1.6-A-N18-R6X,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,3.68,33,1,Not eqipped,DBMX10020364,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01518,0.3041,306.52,0.0108,,0.00306,0.01,28.9,MPG,26.59,28.46,31.93,,40.4,0.187,0.02027,9.3,-0.014,0.02222,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works All4 Countryman,WL99204,0,1.6,DBMXV01.6N18,Car,214,4,1.6-A-N18-R6X,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,3.68,33,1,Not eqipped,DBMX10020365,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00795,0.128,210.27,0.0018,,0.00239,0.01,42.2,MPG,,,,,40.4,0.187,0.02027,9.3,-0.014,0.02222,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works All4 Countryman,WM28504,0,1.6,DBMXV01.6N18,Car,214,4,1.6-M-N18-R6X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.7,40.4,1,Not eqipped,DBMX10020370,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.00718,0.3061,303.98,0.0064,,0.00189,0.01,29.2,MPG,26.8,28.53,32.63,,36.9,0.253,0.02001,11.7,-0.109,0.02302,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works All4 Countryman,WM28504,0,1.6,DBMXV01.6N18,Car,214,4,1.6-M-N18-R6X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,3.7,40.4,1,Not eqipped,DBMX10020371,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00719,0.0879,207.03,0.0044,,0.00264,0.01,42.9,MPG,,,,,36.9,0.253,0.02001,11.7,-0.109,0.02302,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works Clubman,T384700,2,1.6,DBMXV01.6N18,Car,208,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.2,1,Not eqipped,DBMX10020547,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01059,0.3074,284.47,0.0138,,0.00222,0.01,31.2,MPG,29.36,30.33,34.71,,35.5,0.135,0.01662,20.1,-0.098,0.01773,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works Clubman,T384700,2,1.6,DBMXV01.6N18,Car,208,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.2,1,Not eqipped,DBMX10020548,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0073,0.0952,187.38,0.0029,,0.00269,0.01,47.5,MPG,,,,,35.5,0.135,0.01662,20.1,-0.098,0.01773,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works Convertible,T384700,1,1.6,DBMXV01.6N18,Car,208,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.2,1,Not eqipped,DBMX10020545,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01128,0.3071,288.67,0.0172,,0.00244,0.01,30.7,MPG,28.9,29.82,34.29,,34.8,0.135,0.01798,19.8,-0.119,0.01928,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,John Cooper Works Convertible,T384700,1,1.6,DBMXV01.6N18,Car,208,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.2,1,Not eqipped,DBMX10020546,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00465,0.0537,192.08,0.0043,,0.00175,0.01,46.3,MPG,,,,,34.8,0.135,0.01798,19.8,-0.119,0.01928,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Clubman,TX95505,1,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,40.7,1,Not eqipped,BBMX10012686,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.02804,0.1117,248.85,0.0099,,0.00214,,35.7,MPG,,,,,35.4,-
0.034,0.01827,9.6,0.018,0.01706,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Clubman,TX95505,1,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,40.7,1,Not
eqipped,BBMX10012981,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00686,0.059,171.31,0.0012,,0.0017,,51.9,MPG,,,,,35.4,-
0.034,0.01827,9.6,0.018,0.01706,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX95505,2,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.1,40.7,1,Not
eqipped,BBMX10012685,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02517,0.1086,244.47,0.0075,,0.00239,,36.4,MPG,,,,,34.1,-
0.034,0.01831,9.8,0.029,0.01669,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX95505,2,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.1,40.7,1,Not
eqipped,BBMX10012982,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00609,0.0663,172.6,0.0012,,0.00183,,51.3,MPG,,,,,34.1,-
0.034,0.01831,9.8,0.029,0.01669,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX95505,3,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.1,39.9,1,Not
eqipped,BBMX10009996,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02299,0.1154,251.55,0.0089,,0.00229,,35.2,MPG,,,,,39.7,-
0.034,0.0182,11.8,0.037,0.01682,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX95505,3,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.1,39.9,1,Not
eqipped,BBMX10009997,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02069,0.0966,175.72,0.0007,,0.0037,,50.4,MPG,,,,,39.7,-
0.034,0.0182,11.8,0.037,0.01682,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX96504,1,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-
R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.35,42.9,1,Not
eqipped,BBMX10011554,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0229,0.1797,230,0.01,,0.00288,,38.6,MPG,,,,,26.9,0.156,0.01649,9.5,-
0.015,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX96504,1,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-
R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.35,42.9,1,Not
eqipped,BBMX10011555,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0171,0.2395,163.7,0.0008,,0.00417,,54,MPG,,,,,26.9,0.156,0.01649,9.5,-
0.015,0.0171,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX96504,2,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-
R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.35,42.1,1,Not
eqipped,BBMX10009940,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02148,0.2903,173.88,0.0008,,0.00628,,50.9,MPG,,,,,32.3,0.156,0.01638,15.
6,0,0.01684,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper,TX96504,2,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-
R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.35,42.1,1,Not
eqipped,BBMX10011559,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02232,0.2326,233.11,0.0088,,0.00308,,38,MPG,,,,,32.3,0.156,0.01638,15.6,
0,0.01684,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX95505,4,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not
eqipped,BBMX10012759,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03015,0.158,256.62,0.0094,,0.0024,,34.5,MPG,,,,,41.2,-
0.034,0.01815,14.8,0.046,0.0163,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX95505,4,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-
R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not
eqipped,BBMX10012760,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01899,0.0888,181.67,0.0015,,0.00307,,48.8,MPG,,,,,41.2,-
0.034,0.01815,14.8,0.046,0.0163,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX96504,3,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-

R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.35,42.1,1,Not eqipped,BBMX10011690,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02459,0.2494,242.85,0.0102,,0.0035,,36.5,MPG,,,,,33.9,0.156,0.01633,15.8,-0.152,0.01828,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX96504,3,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.35,42.1,1,Not eqipped,BBMX10011691,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02024,0.31,168.03,0.0008,,0.00462,,52.7,MPG,,,,,33.9,0.156,0.01633,15.8,-0.152,0.01828,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX96504,5,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.35,42.9,1,Not eqipped,BBMX10011692,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02392,0.2698,245.22,0.0098,,0.00288,,36.2,MPG,,,,,28.2,0.156,0.01644,11.3,-0.051,0.01725,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Clubman,TX96504,5,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.35,42.9,1,Not eqipped,BBMX10011693,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01505,0.3254,165.87,0.0009,,0.00397,,53.3,MPG,,,,,28.2,0.156,0.01644,11.3,-0.051,0.01725,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not eqipped,BBMX91000739,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0060954,0.1237557,194.0098079,0.0022076,,0.0015656,,45.7,MPG,,,,,41,-0.034,0.01928,14.2,0.025,0.01794,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not eqipped,BBMX91000764,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0242299,0.1995718,272.4884017,0.0104079,,0.0029873,,32.6,MPG,30.0251546,32.0691228,35.8381747,,41,-0.034,0.01928,14.2,0.025,0.01794,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not eqipped,BBMX91000765,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023621,0.0494892,189.787774,0.0018864,,0.0004928,,46.7,MPG,,,,,41,-0.034,0.01928,14.2,0.025,0.01794,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,39.9,1,Not eqipped,BBMX91000788,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0252557,0.236039,276.0283064,0.0108371,,0.003187,,32.1,MPG,29.9696898,31.9387293,34.371565,,41,-0.034,0.01928,14.2,0.025,0.01794,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,5,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,40.7,1,Not eqipped,BBMX10012710,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02257,0.1303,250.75,0.008,,,,35.4,MPG,,,,,32.5,-0.034,0.0194,10,0.03,0.01803,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX95505,5,1.6,BBMXV01.6N16,Car,122,4,1.6-A-N16-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,40.7,1,Not eqipped,BBMX10012726,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01031,0.0823,173.74,0.0013,,0.00235,,51,MPG,,,,,32.5,-0.034,0.0194,10,0.03,0.01803,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX96504,0,1.6,BBMXV01.6N16,Car,122,4,1.6-M-N16-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.35,42.1,1,Not eqipped,BBMX10009849,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02187,0.3159,176.57,0.0006,,0.00551,,50,MPG,,,,,33.7,0.156,0.01746,17.6,-0.088,0.01898,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX96504,0,1.6,BBMXV01.6N16,Car,122,4,1.6-M-

N16-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3000,4.35,42.1,1,Not eqipped,BBMX10011623,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.02026,0.2208,238.18,0.0084,,,,37.3,MPG,,,,,33.7,0.156,0.01746,17.6,-
0.088,0.01898,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX96504,4,1.6,BBMXV01.6N16,Car,122,4,1.6-M-
N16-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3000,4.35,42.9,1,Not eqipped,BBMX10011592,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.02059,0.2605,245.08,0.0084,,,,36.2,MPG,,,,,28,0.156,0.01757,11.9,-
0.021,0.01816,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Convertible,TX96504,4,1.6,BBMXV01.6N16,Car,122,4,1.6-M-
N16-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3000,4.35,42.9,1,Not eqipped,BBMX10011593,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01648,0.2943,169.65,0.0009,,0.00478,,52.1,MPG,,,,,28,0.156,0.01757,11.9,
-0.021,0.01816,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Countryman,WH94501,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-
N16-R60,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,4.64,42.5,1,Not eqipped,BBMX10010414,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01073,0.1276,210.72,0.0021,,0.00346,0.01,42,MPG,,,,,39.3,-
0.01,0.02331,6.8,0.121,0.02129,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Countryman,WH94501,0,1.6,BBMXV01.6N16,Car,122,4,1.6-A-
N16-R60,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,4.64,42.5,1,Not eqipped,BBMX10011624,No,31,Federal fuel 3-day exhaust,61,Tier 2
Cert
Gasoline,FTP,0.03264,0.1242,275.82,0.0154,,0.0031,0.01,32.1,MPG,29.48,32.3,32.15,,39.3,
-0.01,0.02331,6.8,0.121,0.02129,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Countryman,WH95002,0,1.6,BBMXV01.6N16,Car,122,4,1.6-M-
N16-R60,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.72,43.1,1,Not eqipped,BBMX10010266,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01471,0.1353,194.28,0.0014,,0.00349,,45.7,MPG,,,,,34.2,0.13,0.02146,17.2
,-0.169,0.02347,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper Countryman,WH95002,0,1.6,BBMXV01.6N16,Car,122,4,1.6-M-
N16-R60,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.72,43.1,1,Not eqipped,BBMX10012131,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0244,0.256,258.39,0.0081,,,,34.4,MPG,,,,,34.2,0.13,0.02146,17.2,-
0.169,0.02347,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY10009,4,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.1,1,Not
eqipped,BBMX10009988,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00759,0.1755,268.9,0.0196,,0.00215,,33,MPG,,,,,32.5,0.099,0.01846,2.2,0.
131,0.01782,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY10009,4,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.1,1,Not
eqipped,BBMX10009990,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01212,0.1493,186.33,0.0022,,0.00305,,47.8,MPG,,,,,32.5,0.099,0.01846,2.2
,0.131,0.01782,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY10009,6,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.3,1,Not
eqipped,BBMX10010409,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00708,0.0875,266.64,0.0154,,0.00174,,33.2,MPG,,,,,38,0.099,0.01835,9.1,0
.11,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY10009,6,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-
R56,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.68,35.3,1,Not
eqipped,BBMX10010411,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01099,0.1074,187.04,0.0029,,0.00294,,47.4,MPG,,,,,38,0.099,0.01835,9.1,0
.11,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY20003,1,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-

R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,43.1,1,Not eqipped,BBMX10010499,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00735,0.3269,258.66,0.0122,,0.00248,,34.2,MPG,,,,,33.6,0.135,0.01813,14.4,-0.094,0.01954,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY20003,1,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,43.1,1,Not eqipped,BBMX10010500,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00742,0.0804,180.27,0.0029,,0.00234,,49.3,MPG,,,,,33.6,0.135,0.01813,14.4,-0.094,0.01954,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY20003,6,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,42.9,1,Not eqipped,BBMX10010830,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00569,0.2504,256.72,0.0184,,0.00244,,34.5,MPG,,,,,28.1,0.135,0.01824,10.1,-0.121,0.01984,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S,TY20003,6,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R56,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.71,42.9,1,Not eqipped,BBMX10010831,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01516,0.169,176.5,0.0035,,0.00353,,50.4,MPG,,,,,28.1,0.135,0.01824,10.1,-0.121,0.01984,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY10009,3,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.1,1,Not eqipped,BBMX10009943,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00724,0.1747,268.96,0.0209,,0.00193,,33,MPG,,,,,33.9,0.099,0.01718,5.4,-0.048,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY10009,3,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.1,1,Not eqipped,BBMX10012043,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00335,0.0743,177.45,0.002,,0.00156,,50.1,MPG,,,,,33.9,0.099,0.01718,5.4,-0.048,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY10009,5,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,BBMX10010195,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01252,0.1796,274.44,0.0124,,0.00255,,32.4,MPG,,,,,39.7,0.099,0.01706,11.4,-0.105,0.01913,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY10009,5,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R55,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,BBMX10010196,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00324,0.061,191.74,0.0033,,0.00116,,46.3,MPG,,,,,39.7,0.099,0.01706,11.4,-0.105,0.01913,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY20003,0,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.1,1,Not eqipped,BBMX10012063,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00692,0.1467,255.98,0.0206,,0.00254,,34.7,MPG,,,,,35.3,0.135,0.01684,11.5,-0.22,0.01978,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY20003,0,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.1,1,Not eqipped,BBMX10012064,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01902,0.165,176.36,0.0039,,0.00408,,50.5,MPG,,,,,35.3,0.135,0.01684,11.5,-0.22,0.01978,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY20003,4,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,42.9,1,Not eqipped,BBMX10012041,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00796,0.1594,249.61,0.0174,,0.00239,,35.5,MPG,,,,,29.6,0.135,0.01696,7.1,-0.319,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Clubman,TY20003,4,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R55,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,42.9,1,Not eqipped,BBMX10012042,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02012,0.148,171.64,0.0043,,0.00445,,51.6,MPG,,,,,29.6,0.135,0.01696,7.1,-0.319,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY10009,0,1.6,BBMXV01.6N18,Car,180,4,1.6-N18-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,BBMX10010444,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01105,0.209,276.81,0.0136,,0.00346,,32.1,MPG,,,,,39,0.099,0.01842,3.4,0.048,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY10009,0,1.6,BBMXV01.6N18,Car,180,4,1.6-N18-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.3,1,Not eqipped,BBMX10010445,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0117,0.204,192.63,0.0037,,0.00301,,46,MPG,,,,,39,0.099,0.01842,3.4,0.048,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY10009,1,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.1,1,Not eqipped,BBMX10009774,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.00718,0.1787,266.75,0.0189,,0.0019,,33.3,MPG,30.49,32.69,37.33,,33.4,0.099,0.01853,3.2,-0.022,0.01942,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY10009,1,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R57,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.68,35.1,1,Not eqipped,BBMX10011591,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00127,0.0543,176.94,0.0018,,0.00102,,50.2,MPG,,,,,33.4,0.099,0.01853,3.2,-0.022,0.01942,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY20003,7,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,42.9,1,Not eqipped,BBMX10011940,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0098,0.1957,257.38,0.0208,,0.00273,,34.5,MPG,,,,,29,0.135,0.01831,8,-0.112,0.02001,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY20003,7,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,42.9,1,Not eqipped,BBMX10011941,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00871,0.1063,175.07,0.0073,,0.00279,,50.7,MPG,,,,,29,0.135,0.01831,8,-0.112,0.02001,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY20003,8,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.1,1,Not eqipped,BBMX10010834,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0067,0.2201,267.47,0.0161,,0.00234,,33.2,MPG,,,,,34.6,0.135,0.0182,18.1,-0.296,0.02143,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Convertible,TY20003,8,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R57,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.71,43.1,1,Not eqipped,BBMX10010835,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00982,0.1208,183.44,0.0156,,0.00299,,48.5,MPG,,,,,34.6,0.135,0.0182,18.1,-0.296,0.02143,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman,WH97510,1,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R60,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.68,33.1,1,Not eqipped,BBMX10010743,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01968,0.1199,195.52,0.0036,,0.00518,,45.3,MPG,,,,,37.3,0.093,0.02203,13.1,-0.1,0.02339,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman,WH97510,1,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R60,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.68,33.1,1,Not eqipped,BBMX10012709,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00912,0.0841,273.78,0.0203,,0.00257,,32.4,MPG,,,,,37.3,0.093,0.02203,13.1,-0.1,0.02339,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman,WH98002,1,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R60,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.71,40.4,1,Not eqipped,BBMX10010612,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01739,0.1866,195.26,0.0424,,0.00399,,45.5,MPG,,,,,34.1,0.177,0.02111,13.8,-0.114,0.02294,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman,WH98002,1,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R60,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.71,40.4,1,Not eqipped,BBMX10011874,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01121,0.4982,261.18,0.0129,,0.00454,,33.9,MPG,,,,,34.1,0.177,0.02111,13.8,-0.114,0.02294,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman All4,WH97510,0,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R6X,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.68,33.1,1,Not eqipped,BBMX91000731,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.009793,0.2931793,206.8516239,0.0039149,,0.0034677,,42.8,MPG,,,,,40.1,0.195,0.02118,14.9,0.024,0.02241,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman All4,WH97510,0,1.6,BBMXV01.6N18,Car,180,4,1.6-A-N18-R6X,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.68,33.1,1,Not eqipped,BBMX91000732,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0189591,0.2529046,296.1090042,0.0203938,,0.004823,,30,MPG,27.9496345,29.3607364,32.9697443,,40.1,0.195,0.02118,14.9,0.024,0.02241,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman All4,WH98002,0,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R6X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.71,40.4,1,Not eqipped,BBMX10010496,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01521,0.1854,203.25,0.0048,,0.00355,,43.7,MPG,,,,,36.5,0.263,0.0209,19,-0.01,0.02277,TWC,Three-way catalyst,N,,,N,No averaging

2013,BMW,BMX,Mini,Mini Cooper S Countryman All4,WH98002,0,1.6,BBMXV01.6N18,Car,180,4,1.6-M-N18-R6X,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,3.71,40.4,1,Not eqipped,BBMX10011932,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00888,0.3237,270.97,0.0106,,0.00384,,32.7,MPG,30.2,32.86,34.59,,36.5,0.263,0.0209,19,-0.01,0.02277,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bugatti,BGT,BUGATTI,Veyron Super Sport,BAX-US100/10,0,7.997,ABGTV08.0V16,Car,1200,16,CBLA,A,Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.59,24.9,1,Not eqipped,ABGT10008316,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0463,0.214,885,0.028,,0.0126,0.01,10,MPG,9.8,9.2,12.2,,60,0.59,0.0185,16,0.022,0.0204,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bugatti,BGT,BUGATTI,Veyron Super Sport,BAX-US100/10,0,7.997,ABGTV08.0V16,Car,1200,16,CBLA,A,Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.59,24.9,1,Not eqipped,ABGT10008317,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.071,0.381,636,0.015,,,,13.9,MPG,9.1,16.4,,,60,0.593,0.0185,16,0.022,0.0204,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bugatti,BGT,BUGATTI,Veyron Super Sport,BAX-US100/10,0,7.997,ABGTV08.0V16,Car,1200,16,CBLA,A,Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.59,24.9,1,Not eqipped,ABGT10008318,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0171,0.076,495,0.0133,,0.0064,0.01,17.9,MPG,,,,,60,0.59,0.0185,16,0.022,0.0204,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bugatti,BGT,BUGATTI,Veyron Super Sport,BAX-US100/10,0,7.997,ABGTV08.0V16,Car,1200,16,CBLA,A,Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.59,24.9,1,Not eqipped,ABGT10008319,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.471,0.836,999,0.057,,,,8.9,MPG,8,8.3,11.1,,67,0.653,0.0204,18,0.025,0.0225,TWC,Three-way catalyst,N,,,N,No averaging

2013,Bugatti,BGT,BUGATTI,Veyron Super Sport,BAX-US100/10,0,7.997,ABGTV08.0V16,Car,1200,16,CBLA,A,Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.59,24.9,1,Not eqipped,ABGT10008320,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0338,0.181,903,0.004,,,,9.8,MPG,,,,,60,0.59,0.0185,16,0.022,0.0204,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,200,V0JSC8320,0,2.4,BCRXJ02.4VP1,Both,173,4,AA-925,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.24,29,1,Not

eqipped,BCRX10021581,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,360,,,,,24.7,MPG,,,,,30.43,0.4579,0.01639,11.145,-0.054,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,200,V0JSC8320,0,2.4,BCRXJ02.4VP1,Both,173,4,AA-925,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.24,29,1,Not eqipped,BCRX10021582,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,207,,,,,43,MPG,,,,,30.43,0.4579,0.01639,11.145,-0.054,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,200,V0JSC8320,0,2.4,BCRXJ02.4VP1,Both,173,4,AA-925,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.24,29,1,Not eqipped,BCRX10021583,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,402,,,,,22.1,MPG,,,,,30.43,0.4579,0.01639,11.145,-0.054,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,200,V0JSC8320,0,2.4,BCRXJ02.4VP1,Both,173,4,AA-925,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.24,29,1,Not eqipped,BCRX10021584,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,233,,,,,38.1,MPG,,,,,30.43,0.4579,0.01639,11.145,-0.054,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300,K1LDD1889,1,3.6,BCRXV03.6VP0,Car,292,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,26.6,1,Not eqipped,BCRX10012118,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.007961,0.055716,239.073,0.001516,,,,25.9,MPG,,,,,38.61,0.8894,0.01105,20.494,0.3226,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300,K1LDD1889,1,3.6,BCRXV03.6VP0,Car,292,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,26.6,1,Not eqipped,BCRX10012119,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.069092,0.7639,391.21587,0.002785,,0.040048,,15.8,MPG,15.1,15.2,17.8,0,38.61,0.8894,0.01105,20.494,0.3226,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300,L2LDD3313,0,6.4,CCRXV06.41P0,Car,470,8,AA-200,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.06,31,1,Not eqipped,CCRX10016229,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.057516,0.828693,508.17198,0.01487,,0.009883,,17.4,MPG,17.5,16,20.8,0,37.27,0.7706,0.01446,9.952,0.4499,0.01704,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300,L2LDD3313,0,6.4,CCRXV06.41P0,Car,470,8,AA-200,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.06,31,1,Not eqipped,CCRX10016230,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.009059,0.307189,278.671,0.014843,,,,31.8,MPG,,,,,37.27,0.7706,0.01446,9.952,0.4499,0.01704,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 Awd,L1LDE5950,0,5.7,BCRXV05.7UP0,Car,359,8,AA-400,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.06,30.3,1,Not eqipped,BCRX10012037,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.038666,0.485903,490.51335,0.013725,,0.007035,,18.1,MPG,17.4,17.1,21,0,46.48,0.8879,0.01172,22.925,0.4361,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 Awd,L1LDE5950,0,5.7,BCRXV05.7UP0,Car,359,8,AA-400,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.06,30.3,1,Not eqipped,BCRX10012038,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006684,0.258241,271.092,0.015649,,,,32.7,MPG,,,,,46.48,0.8879,0.01172,22.925,0.4361,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 Awd,L1LDE5950,0,5.7,BCRXV05.7UP0,Car,359,8,AA-400,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.06,30.3,1,Not eqipped,BCRX10012039,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.007747,0.284927,273.12,0.016216,,,,32.5,MPG,,,,,46.48,0.8879,0.01172,22.925,0.4361,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 Awd,L1LDE5950,0,5.7,BCRXV05.7UP0,Car,359,8,AA-400,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.06,30.3,1,Not eqipped,BCRX10012040,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.042631,0.59908,485.87842,0.011179,,0.006354,,18.2,MPG,17.4,17.3,21.1,0,46.48,0.8879,0.01172,22.925,0.4361,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 AWD,L2LXF9773,0,3.6,CCRXV03.6RNA,Car,292,6,FA-200,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.07,36.6,1,Not eqipped,CCRX10015998,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.089918,0.796228,370.22318,0.012585,,0.059563,,16.8,MPG,16,16.4,18.7,,58.95,-0.3101,0.02565,20.17,0.1268,0.01951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300 AWD,L2LXF9773,0,3.6,CCRXV03.6RNA,Car,292,6,FA-200,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.07,36.6,1,Not eqipped,CCRX10015999,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.006702,0.029764,224.691,0.003067,,,,27.8,MPG,,,,,58.95,-0.3101,0.02565,20.17,0.1268,0.01951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300/SRT-8,L9LXC6235,0,5.7,9CRXV05.7UP0,Car,340,,AA-200,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26.8,1,Not eqipped,9CRX01088063,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.065284,1.00147,458.23846,0.008639,,0.011611,,19.3,MPG,,,,,32.85,0.4414,0.01928,17.592,-0.021,0.02342,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,300/SRT-8,L9LXC6235,0,5.7,9CRXV05.7UP0,Car,340,,AA-200,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26.8,1,Not eqipped,9CRX01088064,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.009269,0.206043,256.584,0.014867,,,,34.5,MPG,,,,,32.85,0.4414,0.01928,17.592,-0.021,0.02342,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9901,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10011911,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.02769,0.363774,410.56653,0.007393,,0.013054,,15.1,MPG,14.8,14.2,17.4,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9901,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10011912,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.005638,0.028325,250.166,0.028432,,,,24.8,MPG,,,,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9901,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10020966,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,14.7,MPG,,,,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9901,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10020967,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,24.5,MPG,,,,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9902,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10011907,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.036674,0.464863,413.62589,0.023334,,0.006808,,21.4,MPG,20.5,20.4,24.8,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town & Country,L1RTK9902,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not eqipped,BCRX10011910,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004776,0.096965,254.34,0.024083,,,,35,MPG,,,,,46.03,0.195,0.02528,13.42,

0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town &
Country,L1RTK9902,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not
eqipped,BCRX10011919,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00617,0.059867,254.483,0.035367,,,,35,MPG,,,,,46.03,0.195,0.02528,13.42,
0.0285,0.02423,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town &
Country,L1RTK9902,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not
eqipped,BCRX10020933,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20.9,MPG,,,,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Chrysler,Town &
Country,L1RTK9902,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-100,A,Automatic,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4750,2.06,26.4,1,Not
eqipped,BCRX10020936,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,34.6,MPG,,,,,46.03,0.195,0.02528,13.42,0.0285,0.02423,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6135,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10011739,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00286,0.066437,211.704,0.000816,,,,29.2,MPG,,,,,31.68,0.4632,0.01639,10
.94,0.0313,0.0193,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6135,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10011740,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.019896,0.368989,362.84563,0.005785,,0.010128,,17.1,MPG,16.5,16,20.1,0,3
1.68,0.4632,0.01639,10.94,0.0313,0.0193,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10011644,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.032597,0.576739,373.93556,0.004401,,0.006648,,23.7,MPG,23,22.2,28,0,31.6
8,0.4632,0.01639,10.48,-0.101,0.02175,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10011645,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.008972,0.067704,219.453,0.002057,,,,40.5,MPG,,,,,31.68,0.4632,0.01639,10
.48,-0.101,0.02175,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10021089,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20.8,MPG,,,,,31.68,0.4632,0.01639,10.48,-0.101,0.02175,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10021090,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,35.1,MPG,,,,,31.68,0.4632,0.01639,10.48,-0.101,0.02175,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10021120,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20.4,MPG,,,,,31.68,0.4632,0.01639,10.48,-0.101,0.02175,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Dodge,Avenger,V0JSD6140,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-
500,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,2.06,26.7,1,Not
eqipped,BCRX10021121,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,33.6,MPG,,,,,31.68,0.4632,0.01639,10.48,-0.101,0.02175,,,N,,,N,No

averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L0PMD0768,0,2,BCRXJ02.44P1,Both,158,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.97,39.7,1,Not eqipped,BCRX10021221,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,29.3,MPG,,,,,24.24,0.1997,0.02096,10.18,0.0628,0.02048,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L0PMD0768,0,2,BCRXJ02.44P1,Both,158,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.97,39.7,1,Not eqipped,BCRX10021222,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,42.2,MPG,,,,,24.24,0.1997,0.02096,10.18,0.0628,0.02048,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L1PMD5215,0,2.4,BCRXJ02.4VP1,Both,172,4,AA-500,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.28,28.9,1,Not eqipped,BCRX10021316,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,27.2,MPG,,,,,58.49,-0.4736,0.02968,14.986,0.0666,0.02354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L1PMD5215,0,2.4,BCRXJ02.4VP1,Both,172,4,AA-500,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.28,28.9,1,Not eqipped,BCRX10021317,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,37.7,MPG,,,,,58.49,-0.4736,0.02968,14.986,0.0666,0.02354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L1PMD5215,0,2.4,BCRXJ02.4VP1,Both,172,4,AA-500,CVT,Continuously Variable,1,N,4,4-Wheel Drive,2,Top gear ration < 1,3500,2.28,28.9,1,Not eqipped,BCRX10021322,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,26.4,MPG,,,,,58.49,-0.4736,0.02968,14.986,0.0666,0.02354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Caliber,L1PMD5215,0,2.4,BCRXJ02.4VP1,Both,172,4,AA-500,CVT,Continuously Variable,1,N,4,4-Wheel Drive,2,Top gear ration < 1,3500,2.28,28.9,1,Not eqipped,BCRX10021323,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,36.2,MPG,,,,,58.49,-0.4736,0.02968,14.986,0.0666,0.02354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Challenger,L1LCD1351,0,6.4,BCRXV06.41P0,Car,470,8,AM-200,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.92,23.5,1,Not eqipped,BCRX10012004,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.062023,0.687818,510.55036,0.041139,,0.012017,,17.3,MPG,17.5,15.8,21,0,44.16,0.2456,0.02282,25.157,-0.022,0.02359,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Challenger,L1LCD1351,0,6.4,BCRXV06.41P0,Car,470,8,AM-200,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.92,23.5,1,Not eqipped,BCRX10012005,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.022256,0.44624,281.842,0.024065,,,,31.4,MPG,,,,,44.16,0.2456,0.02282,25.157,-0.022,0.02359,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Challenger,V0LCD1814,0,5.7,ACRXV05.71P0,Car,370,8,AM-100,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.92,23.7,1,Not eqipped,ACRX10011435,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.055278,0.577011,474.54975,0.035081,,0.007975,,18.7,MPG,18.5,17.1,22.7,0,43.07,0.4089,0.0197,18.69,0.1298,0.02081,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Challenger,V0LCD1814,0,5.7,ACRXV05.71P0,Car,370,8,AM-100,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.92,23.7,1,Not eqipped,ACRX10011436,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004663,0.105689,272.198,0.065296,,,,32.6,MPG,,,,,43.07,0.4089,0.0197,18.69,0.1298,0.02081,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L1LCD3362,1,3.6,CCRXV03.6VP0,Car,292,6,FA-500,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,26.9,1,Not eqipped,CCRX10016287,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,22.2,MPG,,,,,32.35,0.489,0.0188,13.67,0.367,0.01487,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L1LCD3362,1,3.6,CCRXV03.6VP0,Car,292,6,FA-500,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,26.9,1,Not

eqipped,CCRX10016288,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,37.5,MPG,,,,,32.35,0.489,0.0188,13.67,0.367,0.01487,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L2LDD7713,0,3.6,CCRXV03.6RNA,Car,292,6,FA-
300,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,22,1,Not
eqipped,CCRX10016334,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.034072,0.417129,370.3176,0.017015,,0.009212,,23.9,MPG,23.5,22.5,27.7,0,4
5.21,-0.0311,0.02009,11.826,0.4149,0.01465,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L2LDD7713,0,3.6,CCRXV03.6RNA,Car,292,6,FA-
300,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,22,1,Not
eqipped,CCRX10016335,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.005702,0.05931,205.615,0.003239,,,,43.1,MPG,,,,,45.21,-
0.0311,0.02009,11.826,0.4149,0.01465,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L2LDD7713,1,3.6,CCRXV03.6RNA,Car,292,6,FA-
300,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,22,1,Not
eqipped,CCRX10016400,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.005452,0.040175,197.456,0.001919,,,,31.7,MPG,,,,,45.21,-
0.0311,0.02009,11.826,0.4149,0.01465,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger,L2LDD7713,1,3.6,CCRXV03.6RNA,Car,292,6,FA-
300,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,22,1,Not
eqipped,CCRX10016401,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.046089,0.687117,359.58772,0.005961,,0.029986,,17.3,MPG,16.9,16.3,20.2,0
,45.21,-0.0311,0.02009,11.826,0.4149,0.01465,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger
AWD,L2LDE5756,0,3.6,CCRXV03.6RNA,Car,292,6,FA-400,A,Automatic,8,Y,A,All Wheel
Drive,2,Top gear ration < 1,4500,3.07,36.6,1,Not eqipped,CCRX10016254,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0.009747,0.093877,233.399,0.004041,,,,38.1,MPG,,,,,56.64,-
0.2022,0.02396,23.92,0.0184,0.02014,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Charger
AWD,L2LDE5756,0,3.6,CCRXV03.6RNA,Car,292,6,FA-400,A,Automatic,8,Y,A,All Wheel
Drive,2,Top gear ration < 1,4500,3.07,36.6,1,Not eqipped,CCRX10016255,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.033072,0.437932,386.03239,0.012215,,0.007458,,23,MPG,21.8,22.2,25.8,0,56
.64,-0.2022,0.02396,23.92,0.0184,0.02014,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3367,0,1.4,DCRXV01.44P1,Car,160,4,AA-
100,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.76,38,1,Not eqipped,DCRX10020693,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.03141,0.654232,252.42547,0.023939,,0.004012,,35.1,MPG,33.4,34.1,38.6,,21
.58,0.4121,0.0149,-2.54,0.464,0.01267,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3367,0,1.4,DCRXV01.44P1,Car,160,4,AA-
100,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.76,38,1,Not eqipped,DCRX10020694,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003009,0.19319,170.973,0.002477,,,,51.9,MPG,,,,,21.58,0.4121,0.0149,-
2.54,0.464,0.01267,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3367,0,1.4,DCRXV01.44P1,Car,160,4,AA-
100,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.76,38,1,Not eqipped,DCRX10020934,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.032845,0.635011,251.5644,0.023453,,0.00421,,35.1,MPG,33.8,33.9,38.9,,21.
58,0.4121,0.0149,-2.54,0.464,0.01267,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3367,0,1.4,DCRXV01.44P1,Car,160,4,AA-
100,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.76,38,1,Not eqipped,DCRX10020935,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003451,0.174383,170.158,0.00193,,,,52.2,MPG,,,,,21.58,0.4121,0.0149,-
2.54,0.464,0.01267,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-
100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not

eqipped,DCRX10020070,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.027289,0.725268,252.02022,0.023633,,0.003999,,35.1,MPG,33.8,33.6,39.2,0,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020071,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.025114,0.25903,158.346,0.002637,,,,56,MPG,,,,,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020181,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.030571,0.713481,250.9797,0.020034,,0.003374,,35.2,MPG,33.8,33.9,39.2,,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020182,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.021587,0.222078,156.633,0.003214,,,,56.4,MPG,,,,,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10021366,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,58,MPG,,,,,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3374,0,1.4,DCRXV01.44P1,Car,160,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10021367,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,247,,,,,36,MPG,34.6,34.7,40.1,,18.97,0.5227,0.01375,0.306,0.24928,0.01491,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3376,0,2,DCRXV02.0UP0,Car,158,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020066,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.028712,0.349371,275.18603,0.011472,,0.004737,,32.2,MPG,32.6,30.2,36.5,0,19.03,0.523,0.01376,0.351,0.2523,0.01376,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3376,0,2,DCRXV02.0UP0,Car,158,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020067,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.010922,0.484217,171.526,0.003459,,,,51.4,MPG,,,,,19.03,0.523,0.01376,0.351,0.2523,0.01376,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3376,0,2,DCRXV02.0UP0,Car,158,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020183,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.032605,0.376888,275.79564,0.013096,,0.004619,,32.1,MPG,31.9,30.3,36.4,,19.03,0.523,0.01376,0.351,0.2523,0.01376,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3376,0,2,DCRXV02.0UP0,Car,158,4,AM-100,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.56,35.2,1,Not eqipped,DCRX10020184,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.008365,0.28718,172.241,0.003224,,,,51.5,MPG,,,,,19.03,0.523,0.01376,0.351,0.2523,0.01376,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,3,2,DCRXV02.0VPA,Car,158,,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020802,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.030531,0.560795,293.87316,0.009288,,0.006235,,30.1,MPG,28.1,29.4,33.6,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,3,2,DCRXV02.0VPA,Car,158,,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020803,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00521,0.123477,186.426,0.002679,,,,47.7,MPG,,,,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,3,2,DCRXV02.0VPA,Car,158,,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020962,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.031312,0.484036,287.84056,0.008275,,0.006291,,30.8,MPG,28.9,29.8,34.8,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,3,2,DCRXV02.0VPA,Car,158,,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020963,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006577,0.165364,187.719,0.002553,,,,47.2,MPG,,,,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,5,2,DCRXV02.0UPA,Car,158,4,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX91001475,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0019306,0.0650958,184.6998601,0.002396,,0.0019017,0.01,33.6,MPG,,,,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3400,6,2,DCRXV02.0UPA,Car,158,4,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX91001549,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.081051,1.0746806,301.9884322,0.0168533,,0.0434167,0.01,20.6,MPG,19.4355053,19.8336976,23.546491,,23.87,0.4697,0.01389,0.682,0.2984,0.01456,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3424,0,2,DCRXV02.0UP0,Car,158,4,AA-101,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020788,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.031358,0.529804,293.33577,0.008409,,0.006373,,30.2,MPG,28.5,28.9,34.5,,23.87,0.4697,0.01389,5.538,0.2962,0.01419,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3424,0,2,DCRXV02.0UP0,Car,158,4,AA-101,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020789,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004716,0.09976,187.278,0.002693,,,,47.5,MPG,,,,,23.87,0.4697,0.01389,5.538,0.2962,0.01419,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3424,0,2,DCRXV02.0UP0,Car,158,4,AA-101,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020959,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.030282,0.439251,293.74567,0.008891,,0.006245,,30.2,MPG,28.2,28.9,34.8,,23.87,0.4697,0.01389,5.538,0.2962,0.01419,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L2PFD3424,0,2,DCRXV02.0UP0,Car,158,4,AA-101,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.47,34,1,Not eqipped,DCRX10020960,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006337,0.179559,187.179,0.001554,,,,47.5,MPG,,,,,23.87,0.4697,0.01389,5.538,0.2962,0.01419,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L3PFD1279,0,1.4,DCRXV01.44P1,Car,160,4,AA-200,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.38,33,1,Not eqipped,DCRX10022194,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03247,0.643528,244.4832,0.013621,,0.00594,,36.3,MPG,34.9,34.8,40.5,,25.52,0.1711,0.01642,1.959,0.4072,0.01235,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L3PFD1279,0,1.4,DCRXV01.44P1,Car,160,4,AA-200,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.38,33,1,Not eqipped,DCRX10022195,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01139,0.14424,156.6,0.00216,,,,56.6,MPG,,,,,25.52,0.1711,0.01642,1.959,0.4072,0.01235,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L3PFD1279,0,1.4,DCRXV01.44P1,Car,160,4,AA-200,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.38,33,1,Not eqipped,DCRX10022270,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02169,0.18461,156.6,0.00312,,,,56.5,MPG,,,,,25.52,0.1711,0.01642,1.959,0.4072,0.01235,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Dart,L3PFD1279,0,1.4,DCRXV01.44P1,Car,160,4,AA-

200,AM,Automated Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.38,33,1,Not eqipped,DCRX10022271,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.038823,0.659421,244.77624,0.012231,,0.006274,,36.1,MPG,34.7,35.1,40,,25.52,0.1711,0.01642,1.959,0.4072,0.01235,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Durango,L1WKT05038,1,3.6,CCRXT03.6UPA,Truck,215,6,AA-400,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016065,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,20.3,MPG,,,,,33.56,0.7946,0.0203,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Durango,L1WKT05038,1,3.6,CCRXT03.6UPA,Truck,215,6,AA-400,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016066,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,32.2,MPG,,,,,33.56,0.7946,0.0203,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,0,3.6,CCRXT03.6UPA,Truck,215,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.09,29.3,1,Not eqipped,CCRX10016062,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,20.8,MPG,,,,,26.45,1.0349,0.01795,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,0,3.6,CCRXT03.6UPA,Truck,215,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.09,29.3,1,Not eqipped,CCRX10016063,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,32.6,MPG,,,,,26.45,1.0349,0.01795,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,2,3.6,CCRXT03.6UPA,Truck,215,6,AA-300,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016068,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,20.1,MPG,,,,,27.74,0.9949,0.02159,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,2,3.6,CCRXT03.6UPA,Truck,215,6,AA-300,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016069,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,31.5,MPG,,,,,27.74,0.9949,0.02159,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,3,3.6,CCRXT03.6UPA,Truck,215,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.09,29.3,1,Not eqipped,CCRX10016090,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,15.7,MPG,,,,,26.45,1.0349,0.01795,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,3,3.6,CCRXT03.6UPA,Truck,215,6,AA-100,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.09,29.3,1,Not eqipped,CCRX10016091,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,24,MPG,,,,,26.45,1.0349,0.01795,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,4,3.6,CCRXT03.6UPA,Truck,215,6,AA-400,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016092,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,15.2,MPG,,,,,33.56,0.7946,0.0203,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand

Cherokee,L1WKT05038,4,3.6,CCRXT03.6UPA,Truck,215,6,AA-400,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016093,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,23.5,MPG,,,,,33.56,0.7946,0.0203,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,5,3.6,CCRXT03.6UPA,Truck,215,6,AA-300,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016094,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,15.1,MPG,,,,,27.74,0.9949,0.02159,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Grand Cherokee,L1WKT05038,5,3.6,CCRXT03.6UPA,Truck,215,6,AA-300,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.09,29.3,1,Not eqipped,CCRX10016095,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,23,MPG,,,,,27.74,0.9949,0.02159,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Journey,L1JCD8793,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-300,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,2.06,24.4,1,Not eqipped,BCRX10021087,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,15.3,MPG,,,,,35.37,0.4123,0.02383,2.11,0.319,0.02181,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Journey,L1JCD8793,0,3.6,BCRXJ03.6UPA,Both,283,6,AA-300,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,2.06,24.4,1,Not eqipped,BCRX10021088,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,25.3,MPG,,,,,35.37,0.4123,0.02383,2.11,0.319,0.02181,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,JOURNEY 2WD,L7JSC0243,5,2.4,9CRXV02.4UP0,Car,173,,FA-100,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.69,34.7,1,Not eqipped,9CRX10021085,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,23.4,MPG,,,,,27.99,0.5576,0.01622,10.83,0.1288,0.01811,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,JOURNEY 2WD,L7JSC0243,5,2.4,9CRXV02.4UP0,Car,173,,FA-100,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.69,34.7,1,Not eqipped,9CRX10021086,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,36.1,MPG,,,,,27.99,0.5576,0.01622,10.83,0.1288,0.01811,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,JOURNEY 2WD,L7JSC0243,5,2.4,9CRXV02.4UP0,Car,173,,FA-100,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.69,34.7,1,Not eqipped,9CRX10021579,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,340,,,,,26.1,MPG,,,,,27.99,0.5576,0.01622,10.83,0.1288,0.01811,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,JOURNEY 2WD,L7JSC0243,5,2.4,9CRXV02.4UP0,Car,173,,FA-100,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.69,34.7,1,Not eqipped,9CRX10021580,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,221,,,,,40.3,MPG,,,,,27.99,0.5576,0.01622,10.83,0.1288,0.01811,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram,L1WDE2979,7,5.7,CCRXT05.7VP0,Truck,390,8,AA-775,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018733,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,15.5,MPG,,,,,46.39,0.7874,0.02509,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram,L1WDE2979,7,5.7,CCRXT05.7VP0,Truck,390,8,AA-775,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018734,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,27.1,MPG,,,,,46.39,0.7874,0.02509,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram,L1WDE2979,8,5.7,CCRXT05.7VP0,Truck,390,8,AA-

875,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.45,26.4,1,Not eqipped,CCRX10018735,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,27.6,MPG,,,,,50.1,0.52,0.02692,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram,L1WDE2979,8,5.7,CCRXT05.7VP0,Truck,390,8,AA-875,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.45,26.4,1,Not eqipped,CCRX10018736,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,15.7,MPG,,,,,50.1,0.52,0.02692,22.222,0.7421,0.03023,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 2WD,V1DS11097,2,4.7,CCRXT04.7HNA,Truck,310,8,FA-100,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.92,28.8,1,Not eqipped,CCRX10018722,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.030971,0.790679,510.37403,0.025626,,0.008449,,17.4,MPG,15.8,17.1,19.3,0,38.75,0.5854,0.0326,12.585,0.499,0.03121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 2WD,V1DS11097,2,4.7,CCRXT04.7HNA,Truck,310,8,FA-100,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.92,28.8,1,Not eqipped,CCRX10018723,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.025215,0.516102,328.417,0.009849,,,,27,MPG,,,,,38.75,0.5854,0.0326,12.585,0.499,0.03121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 2WD,V1DS11097,3,4.7,CCRXT04.7HNA,Truck,310,8,FA-100,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.55,26,1,Not eqipped,CCRX10018731,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,17.1,MPG,,,,,38.75,0.5854,0.0326,12.585,0.499,0.03121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 2WD,V1DS11097,3,4.7,CCRXT04.7HNA,Truck,310,8,FA-100,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.55,26,1,Not eqipped,CCRX10018732,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,26.3,MPG,,,,,38.75,0.5854,0.0326,12.585,0.499,0.03121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 4WD,V1DS60111,1,4.7,CCRXT04.7UPA,Truck,310,8,AA-400,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018720,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.016888,0.32505,364.65,0.00494,,,,17.1,MPG,,,,,56.87,1.091,0.02972,12.574,1.0097,0.02719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 4WD,V1DS60111,1,4.7,CCRXT04.7UPA,Truck,310,8,AA-400,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018720,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.016888,0.32505,364.65,0.00494,,,,17.1,MPG,,,,,56.87,1.091,0.02972,12.574,1.0097,0.02719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 4WD,V1DS60111,1,4.7,CCRXT04.7UPA,Truck,310,8,AA-400,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018721,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.032031,0.452597,525.52371,0.014659,,0.017811,,11.9,MPG,10.7,11.9,12.9,0,56.87,1.091,0.02972,12.574,1.0097,0.02719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,Ram 1500 4WD,V1DS60111,1,4.7,CCRXT04.7UPA,Truck,310,8,AA-400,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.92,28.4,1,Not eqipped,CCRX10018721,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.032031,0.452597,525.52371,0.014659,,0.017811,,11.9,MPG,10.7,11.9,12.9,0,56.87,1.091,0.02972,12.574,1.0097,0.02719,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,RAM 1500 PICKUP 2WD,L9DS10852,9,5.7,9CRXT05.74P1,Truck,345,,FA-850,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.55,26,1,Not eqipped,9CRX10018729,Yes,21,Federal fuel

2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,17,MPG,,,,,44.13,0.5908,0.03133,19.695,0.2429,0.03261,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,RAM 1500 PICKUP 2WD,L9DS10852,9,5.7,9CRXT05.74P1,Truck,345,,FA-850,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.55,26,1,Not eqipped,9CRX10018730,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,27.1,MPG,,,,,44.13,0.5908,0.03133,19.695,0.2429,0.03261,,,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,RAM PICKUP,L9DS10852,11,5.7,BCRXT05.7RN0,Truck,345,8,FA-250,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.55,25.3,1,Not eqipped,BCRX10018798,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,16.5,MPG,,,,,48.92,0.6624,0.03628,19.695,0.2429,0.03261,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Dodge,RAM PICKUP,L9DS10852,11,5.7,BCRXT05.7RN0,Truck,345,8,FA-250,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.55,25.3,1,Not eqipped,BCRX10018799,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,25.6,MPG,,,,,48.92,0.6624,0.03628,19.695,0.2429,0.03261,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF2598,0,1.4,CCRXV01.44P1,Car,100,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,2.86,43.2,1,Not eqipped,CCRX10021034,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,38.8,MPG,,,,,23.49,0.244,0.01844,13.15,0.0345,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF2598,0,1.4,CCRXV01.44P1,Car,100,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,2.86,43.2,1,Not eqipped,CCRX10021035,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,53.3,MPG,,,,,23.49,0.244,0.01844,13.15,0.0345,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF2598,0,1.4,CCRXV01.44P1,Car,100,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,2.86,43.2,1,Not eqipped,CCRX10021036,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,40.6,MPG,,,,,23.49,0.244,0.01844,13.15,0.0345,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF2598,0,1.4,CCRXV01.44P1,Car,100,4,AM-100,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,2.86,43.2,1,Not eqipped,CCRX10021037,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,56.8,MPG,,,,,23.49,0.244,0.01844,13.15,0.0345,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF8247,1,1.4,CCRXV01.44P1,Car,100,4,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.76,41.7,1,Not eqipped,CCRX10012522,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.062225,0.406564,251.08039,0.025916,,0.006387,,35.1,MPG,31.8,34.9,38.6,0,30.31,0.2259,0.01776,2.84,0.2793,0.01634,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500,L2FFF8247,1,1.4,CCRXV01.44P1,Car,100,4,AA-100,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.76,41.7,1,Not eqipped,CCRX10012523,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.011298,0.163578,182.789,0.00106,,,,48.3,MPG,,,,,30.31,0.2259,0.01776,2.84,0.2793,0.01634,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500 Abarth,L2FFF1237,0,1.4,CCRXV01.44P2,Car,160,4,AM-200,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.92,43.7,1,Not eqipped,CCRX10018979,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001292,0.211761,183.346,0.002318,,,,48.5,MPG,,,,,33.27,0.0908,0.01986,12.798,-0.068,0.02086,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Fiat,500 Abarth,L2FFF1237,0,1.4,CCRXV01.44P2,Car,160,4,AM-200,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.92,43.7,1,Not eqipped,CCRX10018980,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.021012,0.446871,239.84606,0.016989,,0.00315,,36.9,MPG,35.3,36.2,39.8,,33
.27,0.0908,0.01986,12.798,-0.068,0.02086,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Compass 2WD,V1MKT3768,0,2,BCRXJ02.4VP1,Both,158,4,AA-
201,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.41,31,1,Not eqipped,BCRX10021218,Yes,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,28.2,MPG,,,,,57.55,-0.8134,0.03583,15.504,-
0.234,0.02836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Compass 2WD,V1MKT3768,0,2,BCRXJ02.4VP1,Both,158,4,AA-
201,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,2.41,31,1,Not eqipped,BCRX10021219,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,38.6,MPG,,,,,57.55,-0.8134,0.03583,15.504,-0.234,0.02836,TWC,Three-
way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,COMPASS
4WD,L6MKJ9402,13,2.4,8CRXB02.4ME0,Both,165,,FM-200,M,Manual,5,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.41,30.6,1,Not eqipped,8CRX10021319,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,29,MPG,,,,,31.13,0.3874,0.02404,13.49,0.2419,0.0203,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Jeep,COMPASS
4WD,L6MKJ9402,13,2.4,8CRXB02.4ME0,Both,165,,FM-200,M,Manual,5,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.41,30.6,1,Not
eqipped,8CRX10021321,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,39.4,MPG,,,,,31.13,0.3874,0.02404,13.49,0.2419,0.0203,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Jeep,COMPASS
4WD,L6MKJ9402,13,2.4,8CRXB02.4ME0,Both,165,,FM-200,M,Manual,5,N,4,4-Wheel Drive,2,Top
gear ration < 1,3625,2.41,30.6,1,Not eqipped,8CRX10021324,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,28.5,MPG,,,,,31.13,0.3874,0.02404,13.49,0.2419,0.0203,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Jeep,COMPASS
4WD,L6MKJ9402,13,2.4,8CRXB02.4ME0,Both,165,,FM-200,M,Manual,5,N,4,4-Wheel Drive,2,Top
gear ration < 1,3625,2.41,30.6,1,Not eqipped,8CRX10021325,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,38.7,MPG,,,,,31.13,0.3874,0.02404,13.49,0.2419,0.0203,,,N,,,N,No
averaging

2013,Chrysler Group LLC,CRX,Jeep,Grand Cherokee
4WD,L2WKJ8209,0,6.4,CCRXT06.41P1,Truck,470,8,AA-100,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,3.7,35.2,1,Not eqipped,CCRX10015901,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0238,0.757571,577.53429,0.016364,,0.00575,,15.3,MPG,15.1,14.6,17.2,0,55.
84,0.775,0.02627,27.98,0.0675,0.03241,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Grand Cherokee
4WD,L2WKJ8209,0,6.4,CCRXT06.41P1,Truck,470,8,AA-100,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,3.7,35.2,1,Not eqipped,CCRX10015920,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.010281,0.943907,365.119,0.012499,,,,24.2,MPG,,,,,55.84,0.775,0.02627,27.
98,0.0675,0.03241,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Grand Cherokee
4WD,L2WKJ8209,0,6.4,CCRXT06.41P1,Truck,470,8,AA-100,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,3.7,35.2,1,Not eqipped,CCRX10015921,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.029439,0.95025,583.48539,0.016047,,0.006328,,15.2,MPG,14.5,14.5,17.1,0,5
5.84,0.775,0.02627,27.98,0.0675,0.03241,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Patriot
4wd,V0MKJ6992,0,2.4,BCRXT02.4VP0,Truck,172,4,AA-200,CVT,Continuously Variable,1,Y,4,4-
Wheel Drive,2,Top gear ration < 1,3750,3.21,39.8,1,Not
eqipped,BCRX10009359,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.041534,0.778643,348.88845,0.019891,,0.011478,,25.3,MPG,24.06,25.07,26.96
,,65.798,-0.5075,0.03462,15.046,-0.069,0.0283,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Patriot
4wd,V0MKJ6992,0,2.4,BCRXT02.4VP0,Truck,172,4,AA-200,CVT,Continuously Variable,1,Y,4,4-
Wheel Drive,2,Top gear ration < 1,3750,3.21,39.8,1,Not
eqipped,BCRX10009360,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003316,0.111091,277.615,0.0059,,,,31.9,MPG,,,,,65.798,-
0.5075,0.03462,15.046,-0.069,0.0283,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9985,0,3.6,CCRXT03.6VP1,Truck,290,6,AA-100,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,4750,3.21,29.4,1,Not eqipped,CCRX10015895,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.037716,0.57661,447.34155,0.007772,,0.008071,,19.8,MPG,18.4,19.8,20.9,0,4
1.5,0.5428,0.03593,24.273,-0.203,0.04222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9985,0,3.6,CCRXT03.6VP1,Truck,290,6,AA-100,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,4750,3.21,29.4,1,Not eqipped,CCRX10015896,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.012222,0.125075,318.829,0.018236,,,,27.8,MPG,,,,,41.5,0.5428,0.03593,24.
273,-0.203,0.04222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9988,0,3.6,CCRXT03.6VP1,Truck,290,6,AA-200,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,4250,3.21,29.4,1,Not eqipped,CCRX10015894,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.012182,0.168523,302.756,0,,,,29.3,MPG,,,,,35.61,0.5748,0.03343,21.159,-
0.062,0.03811,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9988,0,3.6,CCRXT03.6VP1,Truck,290,6,AA-200,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,4250,3.21,29.4,1,Not eqipped,CCRX10015905,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.031972,0.722352,426.39295,0.002566,,0.007494,,20.8,MPG,19.2,20.8,22,0,35
.61,0.5748,0.03343,21.159,-0.062,0.03811,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9990,0,3.6,CCRXV01.44P0,Car,290,4,AM-100,M,Manual,6,N,4,4-Wheel Drive,2,Top
gear ration < 1,4750,3.21,28.2,1,Not eqipped,CCRX10016058,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.029053,0.876785,453.42397,0.033751,,0.007469,,19.5,MPG,18.4,19.1,21.4,0,
40.35,0.4238,0.03704,23.314,0.1102,0.03778,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9990,0,3.6,CCRXV01.44P0,Car,290,4,AM-100,M,Manual,6,N,4,4-Wheel Drive,2,Top
gear ration < 1,4750,3.21,28.2,1,Not eqipped,CCRX10016059,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.016083,0.140352,309.365,0.002325,,,,28.7,MPG,,,,,40.35,0.4238,0.03704,23
.314,0.1102,0.03778,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9992,0,3.6,CCRXT03.6VP1,Truck,290,6,AM-200,M,Manual,6,N,4,4-Wheel Drive,2,Top
gear ration < 1,4250,3.21,28.2,1,Not eqipped,CCRX10015903,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.029005,0.850064,429.94932,0.016001,,0.006353,,20.6,MPG,19.8,19.9,22.5,0,
34.09,0.5324,0.03382,17.123,0.2229,0.03495,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,Jeep,Wrangler
4WD,L2JKJ9992,0,3.6,CCRXT03.6VP1,Truck,290,6,AM-200,M,Manual,6,N,4,4-Wheel Drive,2,Top
gear ration < 1,4250,3.21,28.2,1,Not eqipped,CCRX10015904,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.013704,0.141971,297.145,0.001526,,,,29.8,MPG,,,,,34.09,0.5324,0.03382,17
.123,0.2229,0.03495,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-
100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not
eqipped,DCRX10021622,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.028097,0.788477,416.70508,0.009841,,0.009487,,21.3,MPG,20.1,20.4,24.2,,4
4.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-
100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not
eqipped,DCRX10021623,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.026265,0.429482,258.409,0.008737,,,,34.4,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021624,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.028967,0.654802,387.03201,0.0109,,0.016489,,15.9,MPG,15,15.2,18.1,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021625,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.021349,0.377059,245.788,0.006881,,,,25,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021942,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.016874,0.301792,259.383,0.006187,,,,34.3,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021943,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.029514,1.24568,413.38352,0.009427,,0.011907,,21.4,MPG,20.2,20.6,24.3,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021944,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.031743,0.95721,388.6523,0.007711,,0.021938,,15.8,MPG,14.9,15.2,18.1,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021945,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.014637,0.224427,247.417,0.005885,,,,24.9,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10022183,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,14.9,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10022184,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,24,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10022190,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,14.1,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10022191,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,22.3,MPG,,,,,44.32,-0.2132,0.03749,15.649,0.0422,0.03294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,2,3.6,DCRXT03.6VP0,Truck,290,6,AA-500,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021901,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.014809,0.191532,250.108,0.00957,,,,35.5,MPG,,,,,44.45,-0.2128,0.03664,12.59,0.0101,0.03245,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,2,3.6,DCRXT03.6VP0,Truck,290,6,AA-500,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021902,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.017665,0.725934,385.31775,0.016003,,0.006039,,23,MPG,21.6,22.4,25.7,,44.45,-0.2128,0.03664,12.59,0.0101,0.03245,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,2,3.6,DCRXT03.6VP0,Truck,290,6,AA-500,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021939,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.027543,0.901912,388.56779,0.014972,,0.010286,,22.8,MPG,21.6,22,25.6,,44.45,-0.2128,0.03664,12.59,0.0101,0.03245,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,K3DS10300,2,3.6,DCRXT03.6VP0,Truck,290,6,AA-500,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.21,23.6,1,Not eqipped,DCRX10021940,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02381,0.309748,251.993,0.013199,,,,35.2,MPG,,,,,44.45,-0.2128,0.03664,12.59,0.0101,0.03245,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10021878,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.027331,0.660282,420.18817,0.006154,,0.007885,,21.1,MPG,20,20.1,24.4,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10021879,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.007195,0.030851,257.66,0.00345,,,,34.5,MPG,,,,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10021989,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.029828,0.554349,417.7078,0.009724,,0.007587,,21.2,MPG,20.4,20.3,24.2,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10021990,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.009149,0.035587,256.746,0.003091,,,,34.6,MPG,,,,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10022152,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,20.1,MPG,,,,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Chrysler Group LLC,CRX,RAM,1500 2WD,L3DS16194,0,3.6,DCRXT03.6VPB,Truck,290,6,AA-100,A,Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.21,23.6,1,Not eqipped,DCRX10022156,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,32.2,MPG,,,,,46.46,-0.2072,0.03731,15.38,-0.036,0.03354,TWC,Three-way catalyst,N,,,N,No averaging

2013,Coda,CDA,CODA,CODA,5005,0,0.001,CCDAV00.01UA,Car,134,,0.01UA,A,Automatic,1,Y,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,6.54,93.4,1,Not eqipped,CCDA10022703,No,81,Charge Depleting UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,39.18,0.2549,0.0199,19.59,0.051,0.0199,,,N,,,N,No averaging

2013,Coda,CDA,CODA,CODA,5005,0,0.001,CCDAV00.01UA,Car,134,,0.01UA,A,Automatic,1,Y,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,6.54,93.4,1,Not eqipped,CCDA10022704,No,84,Charge Depleting Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,39.18,0.2549,0.0199,19.59,0.051,0.0199,,,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia Spyder,171765,0,4.5,DFEXV04.3GDI,Car,558,8,F136FB/4497,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped, shifted by survey schedule",DFEX10020160,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.038,0.248,514.92,0.019,0.0034,0.005,0.01,17.1,MPG,15.21,17.6,18,,44.063,

0.199,0.02,14.599,0.128,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,171765,0,4.5,DFEXV04.3GDI,Car,558,8,F136FB/4497,A,Automatic,7,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped, shifted by survey
schedule",DFEX10020161,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.005,0.245,372.615,0,,0,0.01,23.7,MPG,,,,,44.063,0.199,0.02,14.599,0.128,
0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,171765,1,4.5,DFEXV04.3GDI,Car,558,8,F136FB/4497,A,Automatic,7,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped, shifted by survey
schedule",DFEX10020165,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.049,0.189,496.3,0.014,0.0035,0.004,0.01,17.8,MPG,15.59,17.84,19.78,,44.0
63,0.199,0.02,14.599,0.128,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,171765,1,4.5,DFEXV04.3GDI,Car,558,8,F136FB/4497,A,Automatic,7,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped, shifted by survey
schedule",DFEX10020166,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002,0.229,374.38,0,0.0039,0.001,0.01,23.6,MPG,,,,,44.063,0.199,0.02,14.5
99,0.128,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,ZFF67NHB000171765,2,4.5,CFEXV04.3GDI,Car,558,8,F136FB,AM,Automated
Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped,
shifted by survey schedule",CFEX10016076,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.014,0.424,366.231,0.007,,,,24.1,MPG,,,,,44.063,0.199,0.02,14.599,0.128,0
.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,ZFF67NHB000171765,2,4.5,CFEXV04.3GDI,Car,558,8,F136FB,AM,Automated
Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped,
shifted by survey schedule",CFEX10016078,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.041,0.716,614.689,0.024,,,,14.3,MPG,14.58,13.07,17.33,,44.063,0.199,0.02
,14.599,0.128,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,ZFF67NHB000171765,3,4.5,CFEXV04.3GDI,Car,558,8,F136FB,AM,Automated
Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped,
shifted by survey schedule",CFEX10016077,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.013,0.294,364.293,0.007,,,,24.3,MPG,,,,,44.063,0.199,0.02,14.599,0.128,0
.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,458 Italia
Spyder,ZFF67NHB000171765,3,4.5,CFEXV04.3GDI,Car,558,8,F136FB,AM,Automated
Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,5.14,43.5,5,"Equipped,
shifted by survey schedule",CFEX10016079,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.038,0.629,589.921,0.023,,,,15,MPG,14.98,13.6,18.4,,44.063,0.199,0.02,14.
599,0.128,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,0,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey schedule",DFEX10020148,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.037,0.707,500.95,0.026,0.0039,0.02,0.01,17.6,MPG,17.19,16.7,19.98,,46.03
,0.115,0.017,1.003,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,0,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey
schedule",DFEX10020149,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.345,339.08,0.037,,0,0.01,26,MPG,,,,,46.03,0.115,0.017,1.003,0.115,
0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,1,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey schedule",DFEX10020154,No,21,Federal

fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.032,0.603,560.78,0.028,0.0039,0.01,0.01,15.7,MPG,16.17,14.4,18.58,,46.03
,0.115,0.017,1.003,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,1,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey
schedule",DFEX10020155,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.338,340.024,0.04,0.0039,0,0.01,26,MPG,,,,,46.03,0.115,0.017,1.003,
0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,2,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey schedule",DFEX10020156,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.037,0.481,478.72,0.029,0.0041,0.01,0.01,18.4,MPG,17.48,17.7,20.89,,46.03
,0.115,0.017,1.003,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,2,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey
schedule",DFEX10020157,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.29,336.58,0.038,0.0041,0,0.01,26.2,MPG,,,,,46.03,0.115,0.017,1.003
,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,3,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey schedule",DFEX10020158,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.035,0.721,538.78,0.03,0.0042,0.01,0.01,16.4,MPG,16.45,15.16,19.18,,46.03
,0.115,0.017,1.003,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,California,159971,3,4.3,DFEXV04.3GDI,Car,483,8,F136
IH,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,4.44,39.2,5,"Equipped, shifted by survey
schedule",DFEX10020159,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002,0.332,341.4,0.039,0.0042,0.01,0.01,25.9,MPG,,,,,46.03,0.115,0.017,1.
003,0.115,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,168921,0,6.3,DFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated
Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped,
shifted by survey schedule",DFEX10020167,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.034,0.505,628.71,0.018,0.0028,0.015,0.01,14,MPG,13.03,13.33,16.67,,49.45
8,0.145,0.022,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,168921,0,6.3,DFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated
Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped,
shifted by survey schedule",DFEX10020168,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003,0.285,390.02,0,,0,0.01,22.6,MPG,,,,,49.458,0.145,0.022,28.98,-
0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,168921,1,6.3,DFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated
Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped,
shifted by survey schedule",DFEX10020172,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.043,0.579,596.198,0.017,0.0035,0.02,0.01,14.8,MPG,13.58,14.13,17.54,,49.
458,0.145,0.022,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,168921,1,6.3,DFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated
Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped,
shifted by survey schedule",DFEX10020173,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002,0.272,385.81,0.003,0.0039,0,0.01,22.9,MPG,,,,,49.458,0.145,0.022,28.
98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,ZFFJY54B000168921,2,6.3,CFEXV06.3GDI,Car,652,12,F140
EB,AM,Automated Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration <
1,4750,3.87,30.2,5,"Equipped, shifted by survey schedule",CFEX10016610,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.034,0.502,708.95,0.022,,,,12.5,MPG,12.12,11.43,15.33,,49.458,0.145,0.022

,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,ZFFJY54B000168921,2,6.3,CFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped, shifted by survey schedule",CFEX10016611,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.003,0.22,389.168,0.002,,,,22.7,MPG,,,,,49.458,0.145,0.022,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,ZFFJY54B000168921,3,6.3,CFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped, shifted by survey schedule",CFEX10016612,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001,0.226,385.06,0.005,,,,22.9,MPG,,,,,49.458,0.145,0.022,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Ferrari,FEX,Ferrari,FF,ZFFJY54B000168921,3,6.3,CFEXV06.3GDI,Car,652,12,F140 EB,AM,Automated Manual,7,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.87,30.2,5,"Equipped, shifted by survey schedule",CFEX10016613,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.026,0.58,670.92,0.019,,,,13.2,MPG,12.68,12.19,15.98,,49.458,0.145,0.022,28.98,-0.391,0.0389,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,C-Max (PHEV),DL500090,0,2,DFMXV02.0VZP,Car,141,4,DCG1PH0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.09,54.9,1,Not eqipped,DFMX10022792,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0072956,0.244842,146.161,0.0048463,,0.0013845,0.01,61,MPG,58.1495,63.2141,,,22.93,0.3908,0.01874,0.05,0.31983,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,C-Max (PHEV),DL500090,0,2,DFMXV02.0VZP,Car,141,4,DCG1PH0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.09,54.9,1,Not eqipped,DFMX10022793,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0030399,0.261857,152.067,0.0047993,,0.0005162,0.01,58.6,MPG,,,,,22.93,0.3908,0.01874,0.05,0.31983,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,C-Max (PHEV),DL500090,1,2,DFMXV02.0VZP,Car,141,4,DCG1PH0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.09,54.9,1,Not eqipped,DFMX10022813,No,81,Charge Depleting UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,22.93,0.3908,0.01874,0.05,0.31983,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,C-Max (PHEV),DL500090,1,2,DFMXV02.0VZP,Car,141,4,DCG1PH0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.09,54.9,1,Not eqipped,DFMX10022814,No,84,Charge Depleting Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,22.93,0.3908,0.01874,0.05,0.31983,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10021852,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,543,,,0.0274144,0.01,11.6,MPG,10.9,11.4,12.5,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10021853,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,379,,,0.0033916,0.01,16.6,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10021858,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,588,,,0.0274144,0.01,10.7,MPG,10.1,10.5,11.6,,50.55,0.8283,0.03824,16.7

69,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10021859,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,401,,,0.0033916,0.01,15.7,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022099,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,14,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022100,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,20.8,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022101,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,14.5,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022102,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,21.4,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022103,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,15.1,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022104,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,22.1,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022106,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,,,16.1,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022107,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,,,11.1,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022111,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,15.1,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-

way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022112,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,14.5,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,E-350 Extended Wagon,BE41-5.4-L-108,0,5.4,BFMXT05.45HK,Truck,255,8,BE414E0506,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.73,29.8,1,Not eqipped,BFMX10022113,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,14,MPG,,,,,50.55,0.8283,0.03824,16.769,0.34495,0.04177,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021954,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,549,,,0.0094889,0.01,16.2,MPG,15.3,15.9,17.6,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021955,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,388,,,0.0017,0.01,22.9,MPG,,,,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021956,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,562,,,0.0235704,0.01,11.2,MPG,10.7,11,12.4,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021957,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,391,,,0.0029,0.01,16.1,MPG,,,,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021958,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,538,,,0.0235704,0.01,11.7,MPG,11.2,11.5,12.9,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021959,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,379,,,0.0029,0.01,16.6,MPG,,,,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021960,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,570,,,0.0094889,0.01,15.6,MPG,14.7,15.3,16.9,,49.04,0.8689,0.03441,14.48,0.2887,0.03929,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E150 VAN,BE41-4.6-L-107,0,4.6,BFMXT04.65H9,Truck,225,8,BE416D0507,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,4.1,34.1,1,Not eqipped,BFMX10021961,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,400,,,0.0017,0.01,22.2,MPG,,,,,49.04,0.8689,0.03441,14.48,0.2887,0.03929

,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10021854,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,723,,,0.0161624,0.01,12.3,MPG,11.9,11.9,13.5,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10021855,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,483,,,0.0137079,0.01,18.4,MPG,,,,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10021856,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,753,,,0.0161624,0.01,11.8,MPG,11.4,11.4,13.1,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10021857,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,496,,,0.0137079,0.01,17.9,MPG,,,,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10022108,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,700,,,0.0161624,0.01,12.7,MPG,12.3,12.3,14,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,E350 EXTENDED WAGON,BE41-6.8-L-109,0,6.8,BFMXT06.85HT,Truck,305,10,BE418G0505,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,7000,3.73,30.3,1,Not eqipped,BFMX10022109,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,473,,,0.0137079,0.01,18.8,MPG,,,,,56.53,0.9109,0.03723,22.52,0.446,0.03921,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EDGE FWD,BBA00020,0,3.5,BFMXT03.72EE,Truck,305,6,BQ11F70A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,27.6,1,Not eqipped,BFMX10023187,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,377,,,0.0075201,0.01,23.6,MPG,23.3,22.3,26.6,,34.05,0.1563,0.02877,8.81,-0.1398,0.0312,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EDGE FWD,BBA00020,0,3.5,BFMXT03.72EE,Truck,305,6,BQ11F70A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,27.6,1,Not eqipped,BFMX10023188,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,230,,,0.0048,0.01,38.6,MPG,,,,,34.05,0.1563,0.02877,8.81,-0.1398,0.0312,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EDGE FWD,BBA00020,0,3.5,BFMXT03.72EE,Truck,305,6,BQ11F70A08,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.16,27.6,1,Not eqipped,BFMX10023189,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,400,,,0.0075201,0.01,22.2,MPG,22,21.1,25.1,,34.05,0.1563,0.02877,8.81,-0.1398,0.0312,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EDGE FWD,BBA00020,0,3.5,BFMXT03.72EE,Truck,305,6,BQ11F70A08,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.16,27.6,1,Not eqipped,BFMX10023190,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,250,,,0.0048,0.01,35.5,MPG,,,,,34.05,0.1563,0.02877,8.81,-

0.1398,0.0312,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Edge
FWD,CBA00032,0,2,CFMXT02.02E2,Truck,237,4,CQ11N40A07,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.21,28.1,1,Not eqipped,CFMX10016256,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01278,0.44548,335.205,0.0405094,,0.0045721,,26.5,MPG,25.7299,25.5361,29.
105,,19.97,0.3483,0.02348,-2.709,0.20358,0.02326,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Edge
FWD,CBA00032,0,2,CFMXT02.02E2,Truck,237,4,CQ11N40A07,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.21,28.1,1,Not
eqipped,CFMX10016257,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0039214,0.175015,211.945,0.0087133,,0.0023556,,41.9,MPG,,,,,19.97,0.3483
,0.02348,-2.709,0.20358,0.02326,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-1.6-L-
302,0,1.6,DFMXT01.62E9,Truck,170,4,DM21A10509,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.51,33.4,1,Not eqipped,DFMX10020387,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0156736,0.797665,311.603,0.0223977,,0.0041157,0.01,28.4,MPG,26.9031,28.0
101,30.4905,,25.1,0.4249,0.02336,3.382,0.17476,0.0233,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-1.6-L-
302,0,1.6,DFMXT01.62E9,Truck,170,4,DM21A10509,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.51,33.4,1,Not eqipped,DFMX10020388,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0092659,0.211785,213.436,0.0075193,,0.0048098,0.01,41.7,MPG,,,,,25.1,0.4
249,0.02336,3.382,0.17476,0.0233,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-1.6-L-
302,1,1.6,DFMXT01.62E9,Truck,170,4,DM21A10511,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.51,33.5,1,Not eqipped,DFMX10020399,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0041,0.01,28.4,MPG,,,,,25.02,0.4088,0.02338,3.382,0.17476,0.0233,TW
C,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-1.6-L-
302,1,1.6,DFMXT01.62E9,Truck,170,4,DM21A10511,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.51,33.5,1,Not
eqipped,DFMX10020402,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0048,0.01,41.8,MPG,,,,,25.02,0.4088,0.02338,3.382,0.17476,0.0233,TW
C,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-2.0-L-
303,2,2,DFMXT02.02E1,Truck,237,4,DM21A20508,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.07,29.3,1,Not eqipped,DFMX10019783,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0062299,0.01,26.6,MPG,,,,,24.93,0.4157,0.0245,2.969,0.19936,0.02318
,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-2.0-L-
303,2,2,DFMXT02.02E1,Truck,237,4,DM21A20508,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.07,29.3,1,Not
eqipped,DFMX10019784,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0047183,0.01,40.1,MPG,,,,,24.93,0.4157,0.0245,2.969,0.19936,0.02318
,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-2.0-L-
303,3,2,DFMXT02.02E1,Truck,237,4,DM21A20508,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.07,29.2,1,Not eqipped,DFMX10019785,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0062299,0.01,26.6,MPG,,,,,25.01,0.4318,0.02449,2.969,0.19936,0.0231
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape AWD,DM23-2.0-L-
303,3,2,DFMXT02.02E1,Truck,237,4,DM21A20508,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.07,29.2,1,Not

eqipped,DFMX10019786,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0047183,0.01,39.9,MPG,,,,,25.01,0.4318,0.02449,2.969,0.19936,0.0231
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-1.6-L-
301,0,1.6,DFMXT01.62E9,Truck,170,4,DM21A10509,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.21,30.6,1,Not eqipped,DFMX10020007,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0176391,0.820574,312.191,0.0184112,,0.0049046,0.01,28.4,MPG,27.3446,27.5
961,30.7878,,21.88,0.4055,0.02233,-0.06,0.2118,0.02192,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-1.6-L-
301,0,1.6,DFMXT01.62E9,Truck,170,4,DM21A10509,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.21,30.6,1,Not
eqipped,DFMX10020008,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0098494,0.2344,200.992,0.0079121,,0.0040225,0.01,44.1,MPG,,,,,21.88,0.40
55,0.02233,-0.06,0.2118,0.02192,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-2.0-L-
303,0,2,DFMXT02.02E1,Truck,237,4,DM21A20507,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.07,29.3,1,Not eqipped,DFMX10019674,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0133992,0.695226,322.856,0.0095864,,0.0062299,0.01,27.4,MPG,26.1877,26.5
672,30.3662,,21.79,0.4124,0.02345,2.969,0.19936,0.02318,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-2.0-L-
303,0,2,DFMXT02.02E1,Truck,237,4,DM21A20507,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.07,29.3,1,Not
eqipped,DFMX10019675,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0129446,0.397889,212.614,0.0055881,,0.0047183,0.01,41.6,MPG,,,,,21.79,0.
4124,0.02345,2.969,0.19936,0.02318,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-2.0-L-
303,1,2,DFMXT02.02E1,Truck,237,4,DM21A20A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.07,29.2,1,Not eqipped,DFMX10019905,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0062299,0.01,27.4,MPG,,,,,21.87,0.4278,0.02344,2.969,0.19936,0.0231
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Escape FWD,DM23-2.0-L-
303,1,2,DFMXT02.02E1,Truck,237,4,DM21A20A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.07,29.2,1,Not
eqipped,DFMX10019906,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0047183,0.01,41.5,MPG,,,,,21.87,0.4278,0.02344,2.969,0.19936,0.0231
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,ESCAPE FWD,DM23-2.5-L-
305,0,2.5,DFMXT02.52ET,Truck,168,4,DM21C050508,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.51,33.5,1,Not eqipped,DFMX10019732,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0225209,0.78219,323.243,0.0033125,,0.005572,0.01,27.4,MPG,26.9159,26.232
,30.2799,,21.89,0.4047,0.0222,2.17,0.3531,0.0224,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,ESCAPE FWD,DM23-2.5-L-
305,0,2.5,DFMXT02.52ET,Truck,168,4,DM21C050508,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.51,33.5,1,Not
eqipped,DFMX10019733,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0107544,0.162117,202.652,0.003272,,0.003866,0.01,43.7,MPG,,,,,21.89,0.40
47,0.0222,2.17,0.3531,0.0224,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER 4WD,DUB3-3.5-J-
202,0,3.5,DFMXT03.73E8,Truck,287,6,DUB1ST0505,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.65,31.3,1,Not eqipped,DFMX10017833,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00429,0.186507,279.511,0.028481,,0.0028208,0.01,31.7,MPG,,,,,36.19,0.842
5,0.02253,11.447,0.51959,0.02239,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER 4WD,DUB3-3.5-J-
202,0,3.5,DFMXT03.73E8,Truck,287,6,DUB1ST0505,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.65,31.3,1,Not eqipped,DFMX10017912,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0107013,0.433832,429.938,0.0163785,,0.0031412,0.01,20.6,MPG,19.8754,19.9
741,22.7288,,36.19,0.8425,0.02253,11.447,0.51959,0.02239,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER 4WD,DUB3-3.5-J-
202,1,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A05,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.65,31.3,1,Not eqipped,DFMX10018886,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0228053,0.374885,409.736,0.0243576,,0.0079878,0.01,15.3,MPG,14.8042,14.
6948,16.943,,36.19,0.8425,0.02253,11.447,0.51959,0.02239,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER 4WD,DUB3-3.5-J-
202,1,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A05,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.65,31.3,1,Not eqipped,DFMX10018887,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0051353,0.169357,269.556,0.0182837,,0.0046033,0.01,23.2,MPG,,,,,36.19,0
.8425,0.02253,11.447,0.51959,0.02239,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10018993,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0275327,0.519606,413.258,0.0234219,,0.0200253,0.01,15.1,MPG,14.856,14.4
759,16.8253,,42.5,0.4643,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10018994,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0183771,0.607594,277.632,0.0049648,,0.0170519,0.01,22.5,MPG,,,,,42.5,0.
4643,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10018995,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0304196,1.01761,461.923,0.0156236,,0.0131,0.01,19.2,MPG,19.2641,18.2045,
21.3721,,42.5,0.4643,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not
eqipped,DFMX10018996,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0163521,0.519918,293.033,0.007164,,0.008951,0.01,30.3,MPG,,,,,42.5,0.464
3,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10019006,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.025827,0.767159,427.96,0.0299427,,0.0111014,0.01,20.7,MPG,20.6866,19.779
6,22.8894,,42.5,0.4643,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Explorer FFV FWD Police,DUB1-3.7-L-
293,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.39,30.6,1,Not
eqipped,DFMX10019007,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0163803,0.515418,287.529,0.007798,,0.0090329,0.01,30.8,MPG,,,,,42.5,0.46
43,0.02823,23.12,0.0782,0.02908,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer

FWD,CGA00005,2,2,DFMXT02.02EC,Truck,237,4,DUB1C40A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.51,29.5,1,Not eqipped,DFMX10019123,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0042105,0.01,25.2,MPG,,,,,25.08,0.2654,0.0279,5.36,0.01505,0.02785, TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FWD,CGA00005,2,2,DFMXT02.02EC,Truck,237,4,DUB1C40A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.51,29.5,1,Not eqipped,DFMX10019124,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0038802,0.01,39.3,MPG,,,,,25.08,0.2654,0.0279,5.36,0.01505,0.02785, TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FWD,CGA00005,2,2,DFMXT02.02EC,Truck,237,4,DUB1C40A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.51,29.5,1,Not eqipped,DFMX10019125,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0032075,0.01,39.3,MPG,,,,,25.08,0.2654,0.0279,5.36,0.01505,0.02785, TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FWD,CUB1-2.0-L-251,0,2,CFMXT02.02E2,Truck,237,4,CUB1C40500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.51,30.7,1,Not eqipped,CFMX91000934,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0059742,0.233981,279.6629104,0.0023183,,0.0028826,0.01,31.8,MPG,,,,,44.53,0.3603,0.02582,15.88,-0.0096,0.02635,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Explorer FWD,DUB1-2.0-J-201,0,2,DFMXT02.02EC,Truck,237,4,DUB1C40500,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.51,30.7,1,Not eqipped,DFMX91001162,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0156566,0.9872831,402.5696537,0.0083622,,0.0053872,0.01,22,MPG,20.8840593,21.6477331,23.8155886,,40.81,0.2904,0.02745,15.41,0.0855,0.0273,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER FWD FFV,DGA00010,0,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A08,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.39,29.1,1,Not eqipped,DFMX10019563,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0111925,0.292742,397.136,0.0464616,,0.0072561,0.01,15.8,MPG,15.5738,15.0797,17.421,,35.89,0.4144,0.02533,10.007,0.18377,0.02545,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER FWD FFV,DGA00010,0,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A08,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.39,29.1,1,Not eqipped,DFMX10019564,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0009287,0.167259,248.719,0.009725,,0.0015395,0.01,25.2,MPG,,,,,35.89,0.4144,0.02533,10.007,0.18377,0.02545,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER FWD FFV,DGA00010,0,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A08,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.39,29.1,1,Not eqipped,DFMX10019565,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0170233,0.620037,413.648,0.0169375,,0.0045521,0.01,21.4,MPG,21.1569,20.5546,23.5653,,35.89,0.4144,0.02533,10.007,0.18377,0.02545,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,EXPLORER FWD FFV,DGA00010,0,3.5,DFMXT03.73DM,Truck,287,6,DUB1SN0A08,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.39,29.1,1,Not eqipped,DFMX10019566,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0068359,0.293604,262.806,0.0050974,,0.003705,0.01,33.7,MPG,,,,,35.89,0.4144,0.02533,10.007,0.18377,0.02545,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,"Explorer Police FFV, AWD",DUB1-3.7-J-203,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60505,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.65,32.9,1,Not eqipped,DFMX10017613,No,21,Federal fuel 2-day

exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0416078,1.14662,452.945,0.008369,,0.0160377,0.01,19.5,MPG,19.111,18.7592
,21.6111,,51.48,0.6957,0.02541,22.759,0.03837,0.02577,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,"Explorer Police FFV, AWD",DUB1-3.7-J-
203,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60505,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.65,32.9,1,Not eqipped,DFMX10017614,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0220853,0.725147,308.731,0.0031473,,0.012702,0.01,28.7,MPG,,,,,51.48,0.6
957,0.02541,22.759,0.03837,0.02577,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,"Explorer Police FFV, AWD",DUB1-3.7-J-
203,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60505,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.65,32.9,1,Not eqipped,DFMX10017630,No,21,Federal fuel 2-day
exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0307568,0.853787,435.9,0.0051151,,0.0237476,0.01,14.3,MPG,13.996,13.713
8,15.9946,,51.48,0.6957,0.02541,22.759,0.03837,0.02577,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,"Explorer Police FFV, AWD",DUB1-3.7-J-
203,0,3.7,DFMXT03.73DM,Truck,300,6,DUB1P60505,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.65,32.9,1,Not eqipped,DFMX10017631,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.021765,0.6523,294.739,0.0022433,,0.0194547,0.01,21.2,MPG,,,,,51.48,0.69
57,0.02541,22.759,0.03837,0.02577,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX10021921,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0,0.01,14.3,MPG,,,,,48.8,0.643,0.04637,18.074,0.28788,0.04598,TWC,Thr
ee-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX10021922,Yes,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,,,,,,0,0.01,22.4,MPG,,,,,48.8,0.643,0.04637,18.074,0.28788,0.04598,TWC,Thr
ee-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX10021923,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0,0.01,14.3,MPG,,,,,48.8,0.643,0.04637,18.074,0.28788,0.04598,TWC,Thr
ee-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX91001097,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0327825,0.8590268,630.4262021,0.0109449,0.0025961,0.0100733,,14.1,MPG,13
.2858109,13.5813717,15.9530957,,48.8,0.643,0.04637,18.074,0.28788,0.04598,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX91001099,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0168999,0.322398,411.2500907,0.0098079,,0.0090579,,21.6,MPG,,,,,48.8,0.6
43,0.04637,18.074,0.28788,0.04598,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 4X4 SuperCrew SVT,BF63-6.2-J-
060,0,6.2,CFMXT06.24D2,Truck,411,8,CF612K0506,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,4.1,28.7,1,Not eqipped,CFMX91001107,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0321819,0.6983598,631.1371164,0.0113697,0.001212,0.0099175,,14.1,MPG,13.
1489493,13.6343341,15.9234003,,48.8,0.643,0.04637,18.074,0.28788,0.04598,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 FFV 4X4 Supercab,BF61-3.7-J-055,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0506,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,28.5,1,Not eqipped,BFMX10010635,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0009022,0.0968686,320.858,0.0028928,,0.0008049,0.01,27.7,MPG,,,,,46.83,0.7658,0.03132,12.632,0.53782,0.03091,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 FFV 4X4 Supercab,BF61-3.7-J-055,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0506,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,28.5,1,Not eqipped,BFMX10010974,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0151971,0.313569,448.289,0.0040573,,0.011994,0.01,14,MPG,13.2965,13.5668,15.4194,,46.83,0.7658,0.03132,12.632,0.53782,0.03091,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 FFV 4X4 Supercab,BF61-3.7-J-055,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0506,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,28.5,1,Not eqipped,BFMX10010975,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0045094,0.08548,303.846,0.0033578,,0.0024269,0.01,20.6,MPG,,,,,46.83,0.7658,0.03132,12.632,0.53782,0.03091,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 FFV 4X4 Supercab,BF61-3.7-J-055,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0506,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,28.5,1,Not eqipped,BFMX10010976,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0159493,0.282764,465.378,0.0076265,,0.0038471,0.01,19.1,MPG,18.3326,18.5702,20.8275,,46.83,0.7658,0.03132,12.632,0.53782,0.03091,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup 2WD,BFA00054,1,6.2,BFMXT06.24D2,Truck,415,8,BF612F0508,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.73,29.3,1,Not eqipped,BFMX10011787,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0130576,0.647652,563.089,0.0066683,,0.004939,,15.8,MPG,15.2229,15.065,17.7584,,46.85,0.423,0.033,15.66,0.07616,0.0338,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup 2WD,BFA00054,1,6.2,BFMXT06.24D2,Truck,415,8,BF612F0508,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.73,29.3,1,Not eqipped,BFMX10011788,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0060735,0.210997,353.904,0.0083809,,0.0037069,,25.1,MPG,,,,,46.85,0.423,0.033,15.66,0.07616,0.0338,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 2WD,BKA00059,0,3.7,BFMXT03.73DP,Truck,275,6,BF617G0509,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.73,29.3,1,Not eqipped,BFMX10011901,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0478377,0.699408,446.479,0.0043691,,0.0083281,,19.9,MPG,19.1104,19.2336,21.8254,,30.98,0.9858,0.02592,3.82,0.65746,0.02725,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 2WD,BKA00059,0,3.7,BFMXT03.73DP,Truck,275,6,BF617G0509,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.73,29.3,1,Not eqipped,BFMX10011902,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0112407,0.129936,292.41,0.007684,,0.0055523,,30.4,MPG,,,,,30.98,0.9858,0.02592,3.82,0.65746,0.02725,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 2WD,BKA00059,0,3.7,BFMXT03.73DP,Truck,275,6,BF617G0509,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.73,29.3,1,Not eqipped,BFMX10011903,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0168571,0.219051,425.546,0.0068319,,0.009875,,14.7,MPG,14.1877,14.1682,16.3779,,30.98,0.9858,0.02592,3.82,0.65746,0.02725,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV

2WD,BKA00059,0,3.7,BFMXT03.73DP,Truck,275,6,BF617G0509,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.73,29.3,1,Not eqipped,BFMX10011904,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0069496,0.0324053,280.029,0.0054357,,0.0064321,,22.4,MPG,,,,,30.98,0.9858,0.02592,3.82,0.65746,0.02725,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10011789,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0163235,0.30254,441.819,0.006111,,0.0097642,,14.2,MPG,13.6288,13.7579,15.5216,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10011790,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0009609,0.0441885,298.153,0.0035888,,0.000782,,21,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10011791,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0369455,0.457929,458.017,0.0066932,,0.0059069,,19.4,MPG,18.609,18.828,21.1863,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10011792,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0108669,0.227988,313.35,0.0048864,,0.0056835,,28.4,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10022010,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,447,,,0.0059069,0.01,19.9,MPG,19.1,19.3,21.7,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10022011,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,305,,,0.0056835,0.01,29.1,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10022012,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,431,,,0.0097642,0.01,14.6,MPG,13.9,14.1,15.9,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10022013,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,293,,,0.000782,0.01,21.5,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV 4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not eqipped,BFMX10022014,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,,,447,,,0.0059069,0.01,19.9,MPG,19.1,19.3,21.7,,32.18,0.8006,0.03107,11.27
,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV
4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not
eqipped,BFMX10022015,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,305,,,0.0056835,0.01,29.1,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.0
3048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV
4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not
eqipped,BFMX10022016,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,,,431,,,0.0097642,0.01,14.6,MPG,13.9,14.1,15.9,,32.18,0.8006,0.03107,11.2
7,0.56721,0.03048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F-150 Pickup FFV
4WD,BKA00062,0,3.7,BFMXT03.73DP,Truck,275,6,BF617D0508,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,5500,3.73,29,1,Not
eqipped,BFMX10022017,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,293,,,0.000782,0.01,21.5,MPG,,,,,32.18,0.8006,0.03107,11.27,0.56721,0.0
3048,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10011897,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0255015,0.231138,473.486,0.0062373,,0.0119608,,13.2,MPG,13.106,12.6008,
14.713,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10011897,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0255015,0.231138,473.486,0.0062373,,0.0119608,,13.2,MPG,13.106,12.6008,
14.713,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10011898,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0014215,0.0690408,312.06,0.0027099,,0.0009669,,20.1,MPG,,,,,46.85,0.423
,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10011898,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0014215,0.0690408,312.06,0.0027099,,0.0009669,,20.1,MPG,,,,,46.85,0.423
,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10011899,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0373518,0.37285,499.454,0.0057034,,0.0057354,,17.8,MPG,17.5971,17.015,19
.7332,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10011899,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0373518,0.37285,499.454,0.0057034,,0.0057354,,17.8,MPG,17.5971,17.015,19

.7332,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10011900,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002901,0.0552195,325.477,0.0054739,,0.0008906,,27.4,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10011900,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002901,0.0552195,325.477,0.0054739,,0.0008906,,27.4,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021880,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,502,,,0.0057354,0.01,17.7,MPG,17.5,16.9,19.6,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021881,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,327,,,0.0009,0.01,27.2,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021882,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,,,477,,,0.0119608,0.01,13.2,MPG,13.1,12.6,14.7,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021883,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,316,,,0.001,0.01,19.9,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021884,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,502,,,0.0057354,0.01,17.7,MPG,17.5,16.9,19.6,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021885,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,327,,,0.0009,0.01,27.2,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021886,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,,,477,,,0.0119608,0.01,13.2,MPG,13.1,12.6,14.7,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,P,Part-time 4-

Wheel Drive,2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021887,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,316,,,0.001,0.01,19.9,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,T
WC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021888,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,473,,,0.0057354,0.01,18.8,MPG,18.5,17.9,20.8,,46.85,0.423,0.033,13.29,0.
44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021889,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,306,,,0.0009,0.01,29,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC
,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021890,Yes,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,,,453,,,0.0119608,0.01,13.9,MPG,13.8,13.3,15.5,,46.85,0.423,0.033,13.29,0
.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021891,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,296,,,0.001,0.01,21.3,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,T
WC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not
eqipped,BFMX10021892,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,306,,,0.0009,0.01,29,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,TWC
,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021893,Yes,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,,,453,,,0.0119608,0.01,13.9,MPG,13.8,13.3,15.5,,46.85,0.423,0.033,13.29,0
.44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021894,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,296,,,0.001,0.01,21.3,MPG,,,,,46.85,0.423,0.033,13.29,0.44698,0.02927,T
WC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00051,0,5,BFMXT05.03DD,Truck,360,8,BF615D0507,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.55,27.9,1,Not eqipped,BFMX10021895,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,473,,,0.0057354,0.01,18.8,MPG,18.5,17.9,20.8,,46.85,0.423,0.033,13.29,0.
44698,0.02927,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00114,0,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,5250,3.55,27.6,1,Not
eqipped,BFMX10012243,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0216198,0.50156,428.613,0.0049751,,0.0083633,,20.7,MPG,18.9051,20.3779,2
3.2304,,38.18,0.3692,0.03677,12.96,0.1466,0.03639,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150

4X2,BFA00114,0,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.55,27.6,1,Not eqipped,BFMX10012244,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.000114,0.0522503,287.501,0.0017966,,0.0003743,,30.9,MPG,,,,,38.18,0.3692,0.03677,12.96,0.1466,0.03639,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00114,1,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.15,24.8,1,Not eqipped,BFMX10012447,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013375,0.0188716,295.703,0.0023587,,0.0006615,,30.1,MPG,,,,,46.79,0.4255,0.03467,19.21,0.3871,0.03205,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00114,1,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.15,24.8,1,Not eqipped,BFMX10012448,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0224534,0.446353,457.213,0.0051652,,0.0068049,,19.5,MPG,17.5055,19.4118,21.3194,,46.79,0.4255,0.03467,19.21,0.3871,0.03205,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00115,0,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.15,24.8,1,Not eqipped,BFMX10012429,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0251896,0.537395,439.546,0.0056431,,0.0099803,,20.2,MPG,18.5333,20.0118,22.2042,,43.5,0.4069,0.03424,17.08,0.3151,0.03253,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X2,BFA00115,0,3.5,BFMXT03.54EP,Truck,360,6,BF613G0506,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.15,24.8,1,Not eqipped,BFMX10012430,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0035136,0.0211368,286.932,0.0024826,,0.0019815,,31,MPG,,,,,43.5,0.4069,0.03424,17.08,0.3151,0.03253,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00021,0,3.5,BFMXT03.54EP,Truck,360,6,BF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.55,27.6,1,Not eqipped,BFMX10022219,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,458,,,0.0083473,0.01,19.4,MPG,18,18.9,21.6,,36.6,0.5629,0.03752,12.2,0.3098,0.0367,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00021,0,3.5,BFMXT03.54EP,Truck,360,6,BF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.55,27.6,1,Not eqipped,BFMX10022220,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,301,,,0.001,0.01,29.5,MPG,,,,,36.6,0.5629,0.03752,12.2,0.3098,0.0367,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00021,0,3.5,BFMXT03.54EP,Truck,360,6,BF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.55,27.6,1,Not eqipped,BFMX10022221,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,458,,,0.0083473,0.01,19.4,MPG,18,18.9,21.6,,36.6,0.5629,0.03752,12.2,0.3098,0.0367,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00021,0,3.5,BFMXT03.54EP,Truck,360,6,BF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,3.55,27.6,1,Not eqipped,BFMX10022222,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,301,,,0.001,0.01,29.5,MPG,,,,,36.6,0.5629,0.03752,12.2,0.3098,0.0367,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00022,2,3.5,CFMXT03.54DX,Truck,360,6,CF613D0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.1,30.8,1,Not eqipped,CFMX10016825,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027365,0.0963267,385.276,0.0027888,,0.0022085,0.01,23.1,MPG,,,,,63.44,0

.3871,0.0403,35.98,-0.09305,0.04222,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00022,2,3.5,CFMXT03.54DX,Truck,360,6,CF613D0506,SA,Semi-Automatic,6,Y,P,Part-
time 4-Wheel Drive,2,Top gear ration < 1,6000,4.1,30.8,1,Not
eqipped,CFMX10016896,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0364599,0.679646,522.773,0.0081585,,0.0115928,0.01,17,MPG,15.3303,17.031
4,18.3257,,63.44,0.3871,0.0403,35.98,-0.09305,0.04222,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00023,3,3.5,CFMXT03.54EP,Truck,360,6,CF613C0506,SA,Semi-Automatic,6,Y,P,Part-
time 4-Wheel Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not
eqipped,CFMX10017203,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0227647,0.454555,474.544,0.0043468,,0.0075498,0.01,18.7,MPG,17.1651,18.5
904,20.3234,,41.29,0.3775,0.03986,20.25,-0.0582,0.04083,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,F150
4X4,BKD00023,3,3.5,CFMXT03.54EP,Truck,360,6,CF613C0506,SA,Semi-Automatic,6,Y,P,Part-
time 4-Wheel Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not
eqipped,CFMX10017218,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0081085,0.0514055,317.383,0.0022215,,0.0040088,0.01,28,MPG,,,,,41.29,0.3
775,0.03986,20.25,-0.0582,0.04083,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4,DF61-3.5-J-
437,0,3.5,DFMXT03.54DX,Truck,360,6,DF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.55,26.6,1,Not eqipped,DFMX91001458,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0547518,1.2951359,497.4997829,0.0102717,,0.0174087,0.01,17.9,MPG,16.3330
602,17.6542596,19.7006679,,41.29,0.3775,0.03986,17.391,0.02198,0.04014,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4,DF61-3.5-J-
437,0,3.5,DFMXT03.54DX,Truck,360,6,DF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.55,26.6,1,Not eqipped,DFMX91001459,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0185368,0.2292331,322.7696261,0.0062876,,0.0078725,0.01,27.6,MPG,,,,,41.
29,0.3775,0.03986,17.391,0.02198,0.04014,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4,DF61-3.5-J-
437,1,3.5,DFMXT03.54DX,Truck,360,6,DF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,DFMX10022216,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0284148,0.417165,473.283,0.0057439,,0.0075175,0.01,18.9,MPG,17.2395,18.5
938,20.8193,,41.29,0.3775,0.03986,17.391,0.02198,0.04014,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4,DF61-3.5-J-
437,1,3.5,DFMXT03.54DX,Truck,360,6,DF613C0506,SA,Semi-Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,DFMX10022217,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.001315,0.0503023,299.561,0.0024882,,0.0006182,0.01,29.8,MPG,,,,,41.29,0.
3775,0.03986,17.391,0.02198,0.04014,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4 SUPER CAB,BF61-5.0-J-
056,1,5,CFMXT05.03D7,Truck,360,8,CF615C0A06,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not eqipped,CFMX10018818,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.000882,0.261047,374.375,0.0035627,,0.0009772,0.01,23.7,MPG,,,,,61.92,0.3
819,0.04138,22.47,0.4081,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4 SUPER CAB,BF61-5.0-J-
056,1,5,CFMXT05.03D7,Truck,360,8,CF615C0A06,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not eqipped,CFMX10018822,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0055409,0.107868,361.34,0.0032619,,0.005342,0.01,17.4,MPG,,,,,61.92,0.3
819,0.04138,22.47,0.4081,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4 SUPER CAB,BF61-5.0-J-

056,1,5,CFMXT05.03D7,Truck,360,8,CF615C0A06,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not eqipped,CFMX10019298,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0333887,0.987339,531.615,0.008022,,0.0125746,0.01,16.7,MPG,16.4059,16.1116,18.0548,,61.92,0.3819,0.04138,22.47,0.4081,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 4X4 SUPER CAB,BF61-5.0-J-056,1,5,CFMXT05.03D7,Truck,360,8,CF615C0A06,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,3.73,27.9,1,Not eqipped,CFMX10019377,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0201718,0.325702,517.43,0.0045409,,0.0128068,0.01,12.1,MPG,11.8047,11.6684,13.2922,,61.92,0.3819,0.04138,22.47,0.4081,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 FFV 4X2,DF61-3.7-J-425,0,3.7,DFMXT03.73DP,Truck,275,6,CF617G0510,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.55,27.6,1,Not eqipped,DFMX10022119,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0336112,0.538953,407.892,0.0045296,,0.0054244,0.01,21.8,MPG,20.6216,21.2161,24.2837,,17.79,0.8314,0.0308,-2.176,0.58314,0.03107,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 FFV 4X2,DF61-3.7-J-425,0,3.7,DFMXT03.73DP,Truck,275,6,CF617G0510,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.55,27.6,1,Not eqipped,DFMX10022120,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006671,0.0649137,268.994,0.0028165,,0.0001731,0.01,33.2,MPG,,,,,17.79,0.8314,0.0308,-2.176,0.58314,0.03107,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 FFV 4X2,DF61-3.7-J-425,0,3.7,DFMXT03.73DP,Truck,275,6,CF617G0510,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.55,27.6,1,Not eqipped,DFMX10022121,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.02457,0.4964,390.4383,0.0034,,0.01536,0.01,16,MPG,15.3276,15.546,17.6879,,17.79,0.8314,0.0308,-2.176,0.58314,0.03107,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,F150 FFV 4X2,DF61-3.7-J-425,0,3.7,DFMXT03.73DP,Truck,275,6,CF617G0510,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.55,27.6,1,Not eqipped,DFMX10022122,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.001,0.0542,252.6778,0.0047,,0.0005,0.01,24.8,MPG,,,,,17.79,0.8314,0.0308,-2.176,0.58314,0.03107,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100045,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,40.1,1,Not eqipped,BFMX10009266,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0360876,0.891492,226.464,0.0066616,,0.0075615,,39.1,MPG,38.5787,37.4523,42.6563,,19.08,0.232,0.01744,-0.9,0.28096,0.01561,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100045,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,40.1,1,Not eqipped,BFMX10009267,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02342,0.861384,154.365,0.0033961,,0.0078793,,57.2,MPG,,,,,19.08,0.232,0.01744,-0.9,0.28096,0.01561,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100049,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX91000494,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0457384,0.9344418,251.2006799,0.0118111,,0.0062731,,35.2,MPG,34.6575609,33.5346392,39.0518053,,19.08,0.232,0.01744,0.58,0.2254,0.01666,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100049,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX91000495,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0163423,0.6696914,163.5348731,0.0040163,,0.0055704,,53.8,MPG,,,,,19.08,0.232,0.01744,0.58,0.2254,0.01666,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100049,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX91000520,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.051656,0.8672602,243.9045151,0.0079151,,0.005725,,36.2,MPG,36.1082361,34.4807068,39.9944897,,19.08,0.232,0.01744,0.58,0.2254,0.01666,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100049,2,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX91000521,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0146322,0.4715209,160.0167175,0.0040822,,0.0051225,,55.2,MPG,,,,,19.08,0.232,0.01744,0.58,0.2254,0.01666,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100055,0,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX10009617,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0268457,0.636311,223.152,0.0066727,,0.0049542,,39.7,MPG,38.3357,38.3912,43.4326,,19.08,0.232,0.01744,-11.77,0.66522,0.01241,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100055,0,1.6,BFMXV01.6VDB,Car,118,4,BCH1A10508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,BFMX10009618,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0183143,0.674128,153.947,0.0038969,,0.0058349,,57.3,MPG,,,,,19.08,0.232,0.01744,-11.77,0.66522,0.01241,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100065,1,1.6,CFMXV01.6VDB,Car,120,4,BCH2A10521,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.25,47.4,1,Not eqipped,CFMX10014319,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0309608,0.989196,252.029,0.0068207,,0.0043465,0.01,35,MPG,34.9212,33.2249,39.0956,,21.9,0.2797,0.01961,1.9,0.2323,0.01835,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM100065,1,1.6,CFMXV01.6VDB,Car,120,4,BCH2A10521,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.25,47.4,1,Not eqipped,CFMX10014320,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0121476,0.393061,178.606,0.0020204,,0.0043562,0.01,49.4,MPG,,,,,21.9,0.2797,0.01961,1.9,0.2323,0.01835,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM109405,0,1.6,CFMXV01.6VDB,Car,118,4,BCH1A10525,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,40.1,1,Not eqipped,CFMX10015365,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0458893,0.736468,232.331,0.0074385,,0.0072029,,38.1,MPG,37.68,36.6798,41.1487,,19.28,0.2766,0.01833,-0.845,0.27664,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM109405,0,1.6,CFMXV01.6VDB,Car,118,4,BCH1A10525,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,40.1,1,Not eqipped,CFMX10015366,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0105407,0.473404,160.883,0.0016929,,0.0045523,,54.9,MPG,,,,,19.28,0.2766,0.01833,-0.845,0.27664,0.01733,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM137693,0,1.6,CFMXV01.6VDB,Car,118,4,CCH1A10505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,CFMX10015787,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0198186,0.774792,156.569,0.0027318,,0.0077768,,56.2,MPG,,,,,16.5,0.2503,0.01862,-5.979,0.34358,0.01657,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM137693,0,1.6,CFMXV01.6VDB,Car,118,4,CCH1A10505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.9,39.3,1,Not eqipped,CFMX10015788,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03953,0.961221,230.629,0.008469,,0.0082546,,38.2,MPG,38.4448,36.4366,42.1625,,16.5,0.2503,0.01862,-5.979,0.34358,0.01657,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM183325,0,1.6,CFMXV01.6VDB,Car,118,4,BCH2A10521,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.07,45.3,1,Not eqipped,CFMX10015363,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0267311,0.540865,233.062,0.008555,,0.0045536,,38,MPG,37.8235,36.243,41.8459,,17.24,0.2986,0.01794,3.435,0.03727,0.01905,TWC,Three-way catalyst,N,,,N,No

averaging

2013,FOMOCO,FMX,Ford,FIESTA,BM183325,0,1.6,CFMXV01.6VDB,Car,118,4,BCH2A10521,M,Manual,5
,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.07,45.3,1,Not
eqipped,CFMX10015364,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0194768,0.483826,161.282,0.0032193,,0.0070803,,54.9,MPG,,,,,17.24,0.2986
,0.01794,3.435,0.03727,0.01905,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,BP33-3.5-H-
122,2,3.5,CFMXV03.5VEH,Car,355,6,BP31GT0512,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not eqipped,CFMX10022185,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,451,,,0.0097674,0.01,19.7,MPG,19.2,18.8,22,,38.52,0.6687,0.02547,1.53,0.
1498,0.02824,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,BP33-3.5-H-
122,2,3.5,CFMXV03.5VEH,Car,355,6,BP31GT0512,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not
eqipped,CFMX10022186,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,0.041,282,,,0.0019,0.01,31.5,MPG,,,,,38.52,0.6687,0.02547,1.53,0.1498,0.0
2824,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,0,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,30,1,Not eqipped,DFMX10019371,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0205057,0.513089,396.465,0.0130314,,0.0088343,0.01,22.4,MPG,22.2536,21.5
193,24.4482,,24.58,0.5311,0.02537,3.831,0.18973,0.02647,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,0,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,30,1,Not eqipped,DFMX10019372,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0128281,0.189911,251.855,0.0090511,,0.0063342,0.01,35.3,MPG,,,,,24.58,0.
5311,0.02537,3.831,0.18973,0.02647,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,2,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,30.1,1,Not eqipped,DFMX10019409,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0088343,0.01,22.2,MPG,,,,,23.75,0.7301,0.02366,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,2,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,30.1,1,Not
eqipped,DFMX10019410,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0063342,0.01,34.6,MPG,,,,,23.75,0.7301,0.02366,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,3,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,31.1,1,Not eqipped,DFMX10019411,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0088343,0.01,22,MPG,,,,,18.57,0.8343,0.02398,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FLEX,DP33-3.5-H-
337,3,3.5,DFMXV03.7VE8,Car,285,6,DP31D60A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5000,3.39,31.1,1,Not
eqipped,DFMX10019412,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0063342,0.01,34.2,MPG,,,,,18.57,0.8343,0.02398,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,FLEX,DP43-3.5-J-
220,0,3.5,DFMXV03.5VEP,Car,355,6,AP31GT0500,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not eqipped,DFMX10017632,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.019781,0.150387,464.061,0.0114506,,0.0058301,0.01,19.1,MPG,18.544,18.440

2,21.1714,,42.03,0.773,0.02471,8.398,0.57828,0.0236,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,FLEX,DP43-3.5-J-220,0,3.5,DFMXV03.5VEP,Car,355,6,AP31GT0500,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not eqipped,DFMX10017633,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0007774,0.0158718,296.377,0.0033685,,0.001222,0.01,30,MPG,,,,,42.03,0.773,0.02471,8.398,0.57828,0.0236,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,FLEX,DP43-3.5-J-220,1,3.5,DFMXV03.5VEP,Car,355,6,DP31GT0501,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not eqipped,DFMX10019497,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0218368,0.313691,444.194,0.0166964,,0.0075591,0.01,20,MPG,19.404,19.1697,22.2597,,37.49,0.5307,0.02691,6.1,0.31453,0.02606,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,FLEX,DP43-3.5-J-220,1,3.5,DFMXV03.5VEP,Car,355,6,DP31GT0501,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.16,28.1,1,Not eqipped,DFMX10019498,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0020041,0.0273608,284.33,0.0062135,,0.0023431,0.01,31.3,MPG,,,,,37.49,0.5307,0.02691,6.1,0.31453,0.02606,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CDH1-0.0-L-346,0,0.001,CFMXV00.0VAE,Car,144,,CDH1BE0511,OT,Other,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,3875,7.82,10.5,1,Not eqipped,CFMX10019552,No,81,Charge Depleting UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,23.05,0.3647,0.01897,4.92,0.17801,0.01838,,,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CDH1-0.0-L-346,0,0.001,CFMXV00.0VAE,Car,144,,CDH1BE0511,OT,Other,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,3875,7.82,10.5,1,Not eqipped,CFMX10019553,No,84,Charge Depleting Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,23.05,0.3647,0.01897,4.92,0.17801,0.01838,,,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CDH2-2.0-E-165,0,2,CFMXV02.0VZ2,Car,160,4,CDH2P40509,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.82,42.2,1,Not eqipped,CFMX10012951,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.007102,0.209476,265.243,0.0073633,,0.002273,,33.5,MPG,33.1676,31.7728,37.391,,25.91,0.1943,0.01796,12.955,0.03886,0.01796,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CDH2-2.0-E-165,0,2,CFMXV02.0VZ2,Car,160,4,CDH2P40509,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.82,42.2,1,Not eqipped,CFMX10012952,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0030961,0.140802,175.983,0.0015396,,0.0021899,,50.4,MPG,,,,,25.91,0.1943,0.01796,12.955,0.03886,0.01796,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100032,0,2,CFMXV02.0VZ2,Car,160,4,CDH1P40509,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.5,1,Not eqipped,CFMX10012870,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0058898,0.119171,259.061,0.0056685,,0.0018324,,34.3,MPG,33.3765,32.9592,37.8385,,29.57,0.25,0.01775,2.833,0.43697,0.01438,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100032,0,2,CFMXV02.0VZ2,Car,160,4,CDH1P40509,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.5,1,Not eqipped,CFMX10012871,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027528,0.0870665,174.084,0.001522,,0.0019584,,51,MPG,,,,,29.57,0.25,0.01775,2.833,0.43697,0.01438,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100061,0,2,CFMXV02.0VD9,Car,160,4,CDH1G40511,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not eqipped,CFMX10012953,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.012695,0.605599,264.745,0.0121597,,0.0051745,,33.4,MPG,32.8671,31.8675,37.3822,,25.91,0.1943,0.01796,8.2,0.1313,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100061,0,2,CFMXV02.0VD9,Car,160,4,CDH1G40511,M,Manual,6,N,
F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not
eqipped,CFMX10012954,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0098405,0.585503,175.369,0.0094481,,0.0065873,,50.5,MPG,,,,,25.91,0.1943
,0.01796,8.2,0.1313,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100062,2,2,CFMXV02.0VD9,Car,160,4,CDH1G40510,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not
eqipped,CFMX10012874,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.013921,0.64446,243.16,0.0103563,,0.0070397,,36.4,MPG,35.0316,34.9126,40.
7652,,20.29,0.2119,0.01679,-6.55,0.3283,0.01477,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100062,2,2,CFMXV02.0VD9,Car,160,4,CDH1G40510,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not
eqipped,CFMX10012875,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.007976,0.191305,154.402,0.0282264,,0.0045852,,57.6,MPG,,,,,20.29,0.2119,
0.01679,-6.55,0.3283,0.01477,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100178,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40505,AM,Automated
Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,CFMX10019146,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0108489,0.308918,256.416,0.0101408,,0.0075854,0.01,24.4,MPG,24.4175,23.
2733,26.8496,,29.57,0.25,0.01775,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100178,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40505,AM,Automated
Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,CFMX10019147,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0065499,0.347065,173.614,0.0019777,,0.0064148,0.01,35.9,MPG,,,,,29.57,0
.25,0.01775,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100178,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40505,AM,Automated
Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,CFMX10019154,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0168531,0.92938,263.155,0.0118155,,0.0059298,0.01,33.7,MPG,33.0782,32.30
7,36.9965,,29.57,0.25,0.01775,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100178,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40505,AM,Automated
Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,CFMX10019155,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0149552,0.901402,178.523,0.0097659,,0.0078014,0.01,49.3,MPG,,,,,29.57,0.
25,0.01775,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100399,0,2,CFMXV02.0VD9,Car,160,4,CDH1G40511,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not
eqipped,CFMX10013344,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0091647,0.29191,165.277,0.0069716,,0.0054439,,53.7,MPG,,,,,26.47,0.2232,
0.01721,-1.571,0.30282,0.01537,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL100399,0,2,CFMXV02.0VD9,Car,160,4,CDH1G40511,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.9,37.6,1,Not
eqipped,CFMX10013345,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0105202,0.547717,247.274,0.0081178,,0.0037864,,35.8,MPG,34.8079,34.507,3
9.4102,,26.47,0.2232,0.01721,-1.571,0.30282,0.01537,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL143675,0,2,DFMXV02.0VZ2,Car,160,4,CDH1P40530,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,DFMX10021577,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.009753,0.292478,262.61,0.0052003,,0.0022079,0.01,33.9,MPG,33.3984,32.704
7,37.1487,,29.57,0.25,0.01775,12.92,0.103,0.01796,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL143675,0,2,DFMXV02.0VZ2,Car,160,4,CDH1P40530,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,DFMX10021578,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0017064,0.0925712,172.592,0.0016464,,0.0011328,0.01,51.6,MPG,,,,,29.57,0

.25,0.01775,12.92,0.103,0.01796,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL143675,1,2,DFMXV02.0VZ2,Car,160,4,CDH1P40530,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021481,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0085847,0.253187,258.309,0.0049038,,0.0023842,0.01,34.6,MPG,33.9251,32.9
933,38.418,,20.76,0.337,0.01595,4.84,0.1678,0.01624,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,CL143675,1,2,DFMXV02.0VZ2,Car,160,4,CDH1P40530,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021482,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0026855,0.136365,167.233,0.0016241,,0.0016918,0.01,53.4,MPG,,,,,20.76,0.
337,0.01595,4.84,0.1678,0.01624,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS,DL100003,0,2,CFMXV02.0VZ2,Car,160,4,CDH1P40524,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10021415,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0046967,0.145291,256.711,0.0035424,,0.0010626,0.01,33.6,MPG,33.3276,33.4
759,38.8843,,26.47,0.2232,0.01721,4.569,0.11619,0.0172,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS,DL100003,0,2,CFMXV02.0VZ2,Car,160,4,CDH1P40524,A,Automatic,6
,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10021416,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009652,0.0170408,170.218,0.0010869,,0.0006063,0.01,50.9,MPG,,,,,26.47,0
.2232,0.01721,4.569,0.11619,0.0172,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL100061,1,2,CFMXV02.0VD2,Car,160,4,CDH2F40506,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,3.82,42.2,1,Not eqipped,CFMX10019601,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.039006,0.778643,249.137,0.0169244,,0.0288306,0.01,25,MPG,24.6415,23.868
8,27.9357,,25.91,0.1943,0.01796,8.2,0.1313,0.01764,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL100061,1,2,CFMXV02.0VD2,Car,160,4,CDH2F40506,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,3.82,42.2,1,Not eqipped,CFMX10019602,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0076375,0.407789,168.191,0.0058854,,0.0076578,0.01,37.2,MPG,,,,,25.91,0
.1943,0.01796,8.2,0.1313,0.01764,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40506,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10019599,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0094404,0.210581,252.627,0.0051826,,0.0071593,0.01,24.7,MPG,24.3435,23.
5274,27.972,,26.47,0.2232,0.01721,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40506,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10019600,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0023188,0.136505,158.056,0.001894,,0.0020697,0.01,39.6,MPG,,,,,26.47,0.
2232,0.01721,3.261,0.31551,0.01616,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,1,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,DFMX10021487,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.01801,0.3633,250.2425,0.0057,,0.01172,0.01,25,MPG,24.432,23.8168,28.024
8,,29.57,0.25,0.01775,7.97,0.10949,0.01793,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,1,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not

eqipped,DFMX10021488,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0077,0.1683,160.9013,0.0021,,0.0068,0.01,38.9,MPG,,,,,29.57,0.25,0.0177
5,7.97,0.10949,0.01793,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,1,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,DFMX10021505,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0205301,0.577031,264.151,0.0100861,,0.0057041,0.01,33.7,MPG,33.0866,32.3
07,37.2561,,29.57,0.25,0.01775,7.97,0.10949,0.01793,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL208145,1,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37,1,Not
eqipped,DFMX10021506,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0084652,0.183288,169.484,0.0037527,,0.0048593,0.01,52.8,MPG,,,,,29.57,0.
25,0.01775,7.97,0.10949,0.01793,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL263655,0,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021585,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0231351,1.05036,255.692,0.0095344,,0.0114435,0.01,34.7,MPG,34.3118,32.98
1,38.9175,,20.76,0.337,0.01595,3.257,0.16442,0.01647,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL263655,0,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021586,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0195592,0.863557,164.375,0.0083244,,0.0105216,0.01,54,MPG,,,,,20.76,0.33
7,0.01595,3.257,0.16442,0.01647,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL263655,0,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021587,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0115,0.2402,243.4197,0.0087,,0.00806,0.01,25.8,MPG,25.2865,24.4766,28.8
118,,20.76,0.337,0.01595,3.257,0.16442,0.01647,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
FFV,CL263655,0,2,DFMXV02.0VD2,Car,160,4,CDH1F40530,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,DFMX10021588,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0092,0.3731,155.3078,0.0025,,0.0079,0.01,40.3,MPG,,,,,20.76,0.337,0.015
95,3.257,0.16442,0.01647,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS
SFE,CL100196,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40506,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10019654,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0149499,0.455539,244.742,0.0160855,,0.0117383,0.01,25.5,MPG,24.7447,24.
4998,28.4911,,20.29,0.2119,0.01679,-7.37,0.4714,0.01368,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,FOCUS
SFE,CL100196,0,2,CFMXV02.0VD2,Car,160,4,CDH1F40506,AM,Automated Manual,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3250,3.85,37.1,1,Not
eqipped,CFMX10019655,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.010225,0.545752,158.069,0.0038656,,0.0087337,0.01,39.5,MPG,,,,,20.29,0.
2119,0.01679,-7.37,0.4714,0.01368,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS ST,DDH2-2.0-L-
402,0,2,DFMXV02.0VER,Car,247,4,DDH2S40A08,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,4.06,52.4,1,Not eqipped,DFMX10021441,Yes,21,Federal fuel 2-day

exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0,0.01,29.5,MPG,,,,,33.1,0.2419,0.01917,12.639,0.01099,0.02018,TWC,Th
ree-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,FOCUS ST,DDH2-2.0-L-
402,0,2,DFMXV02.0VER,Car,247,4,DDH2S40A08,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,4.06,52.4,1,Not eqipped,DFMX10021442,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0,0.01,44.9,MPG,,,,,33.1,0.2419,0.01917,12.639,0.01099,0.02018,TWC,Th
ree-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.36,33.1,1,Not eqipped,DFMX10021804,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0212857,0.541343,322.75,0.0050577,,0.0074466,0.01,27.6,MPG,26.6384,26.36
85,31.2018,,26.81,0.5791,0.01528,0.88,0.3442,0.01332,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.36,33.1,1,Not eqipped,DFMX10021805,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0090821,0.160824,201.969,0.0009496,,0.0040288,0.01,44.2,MPG,,,,,26.81,0.
5791,0.01528,0.88,0.3442,0.01332,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.36,33.1,1,Not eqipped,DFMX10021819,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,339,,,0.0074466,0.01,26.2,MPG,25.2,25,29.6,,26.81,0.5791,0.01528,0.88,0.
3442,0.01332,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.36,33.1,1,Not
eqipped,DFMX10021820,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,214,,,0.0074466,0.01,41.5,MPG,,,,,26.81,0.5791,0.01528,0.88,0.3442,0.013
32,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.36,33.1,1,Not eqipped,DFMX10021821,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,312,,,0.0074466,0.01,28.5,MPG,27.5,27.3,32.2,,26.81,0.5791,0.01528,0.88,
0.3442,0.01332,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
AWD,DR100126,0,2,DFMXV02.0VEY,Car,237,4,DC91CA0A09,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.36,33.1,1,Not
eqipped,DFMX10021822,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,191,,,0.0074466,0.01,46.6,MPG,,,,,26.81,0.5791,0.01528,0.88,0.3442,0.013
32,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100012,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not eqipped,DFMX10020396,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0273891,0.439869,296.159,0.0153772,,0.0065951,0.01,29.9,MPG,29.5795,28.3
574,33.747,,19.31,0.5258,0.01373,2.97,0.2536,0.0141,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100012,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not
eqipped,DFMX10020397,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0106725,0.124311,176.084,0.0139511,,0.0034365,0.01,50.4,MPG,,,,,19.31,0.
5258,0.01373,2.97,0.2536,0.0141,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100012,1,1.6,DFMXV01.6VDF,Car,170,4,DC71S30A08,SA,Semi-Automatic,6,Y,F,"2-Wheel

Drive, Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not
eqipped,DFMX10022717,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0325758,0.351308,288.782,0.0199939,,0.0083744,0.01,30.8,MPG,30.5705,29.4
832,34.1018,,18.39,0.5208,0.01311,1.069,0.32528,0.01262,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100012,1,1.6,DFMXV01.6VDF,Car,170,4,DC71S30A08,SA,Semi-Automatic,6,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not
eqipped,DFMX10022718,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0212032,0.120479,172.301,0.0071661,,0.0061373,0.01,51.8,MPG,,,,,18.39,0.
5208,0.01311,1.069,0.32528,0.01262,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100015,0,2.5,DFMXV02.5VEX,Car,175,4,DC71A10A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not eqipped,DFMX10021917,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,314,,,0.0042231,0.01,28.3,MPG,27.9,27.2,31.3,,19.31,0.526,0.01373,3.288,
0.3278,0.01258,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100015,0,2.5,DFMXV02.5VEX,Car,175,4,DC71A10A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not
eqipped,DFMX10021918,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,187,,,0.0017,0.01,47.4,MPG,,,,,19.31,0.526,0.01373,3.288,0.3278,0.01258,
TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100015,0,2.5,DFMXV02.5VEX,Car,175,4,DC71A10A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not eqipped,DFMX10021919,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,323,,,0.0042231,0.01,27.5,MPG,27.1,26.5,30.4,,19.31,0.526,0.01373,3.288,
0.3278,0.01258,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100015,0,2.5,DFMXV02.5VEX,Car,175,4,DC71A10A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.3,1,Not
eqipped,DFMX10021920,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,200,,,0.0017,0.01,44.4,MPG,,,,,19.31,0.526,0.01373,3.288,0.3278,0.01258,
TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100024,0,2,DFMXV02.0VEY,Car,237,4,DC71CF0A07,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.21,31.6,1,Not eqipped,DFMX10021375,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0074,0.01,28.3,MPG,,,,,24.07,0.5331,0.01391,5.93,0.1978,0.01443,TWC
,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100024,0,2,DFMXV02.0VEY,Car,237,4,DC71CF0A07,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.21,31.6,1,Not
eqipped,DFMX10021380,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0,0.01,44.4,MPG,,,,,24.07,0.5331,0.01391,5.93,0.1978,0.01443,TWC,Thre
e-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100025,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not eqipped,DFMX10020400,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0223537,0.451618,312.266,0.0123987,,0.0044467,0.01,28.4,MPG,28.0885,27.0
274,31.6561,,26.41,0.5461,0.01576,6.34,0.26908,0.01628,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100025,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not
eqipped,DFMX10020401,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0081586,0.134635,192.669,0.0056377,,0.0027765,0.01,46,MPG,,,,,26.41,0.54
61,0.01576,6.34,0.26908,0.01628,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100025,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not eqipped,DFMX91001365,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0212078,0.235706,204.8377297,0.016224,,0.0056047,0.01,43.3,MPG,,,,,26.41,0.5461,0.01576,6.34,0.26908,0.01628,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100025,0,1.6,DFMXV01.6VDF,Car,170,4,DC71B30A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not eqipped,DFMX91001367,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0237967,0.4105507,333.0826978,0.0152476,0.0035995,0.006305,0.01,26.7,MPG,26.6850458,25.2220087,29.9236776,,26.41,0.5461,0.01576,6.34,0.26908,0.01628,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100094,0,1.6,DFMXV01.6VDF,Car,170,4,DC72B30A08,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.07,37.1,1,Not eqipped,DFMX10021785,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0265214,0.48937,274.361,0.0109839,,0.00456,0.01,32.5,MPG,32.4912,30.5559,36.7645,,22.96,0.2412,0.01612,4.356,0.08539,0.01612,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100094,0,1.6,DFMXV01.6VDF,Car,170,4,DC72B30A08,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.07,37.1,1,Not eqipped,DFMX10021786,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0443552,0.278824,170.214,0.0031734,,0.0083119,0.01,52.4,MPG,,,,,22.96,0.2412,0.01612,4.356,0.08539,0.01612,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100098,0,1.6,DFMXV01.6VZF,Car,170,4,DC71B40507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not eqipped,DFMX10021756,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0077023,0.177157,317.727,0.0062224,,0.0023011,0.01,28.1,MPG,27.3156,26.876,31.4612,,26.46,0.5437,0.01539,7.45,0.26657,0.01569,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100098,0,1.6,DFMXV01.6VZF,Car,170,4,DC71B40507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.2,1,Not eqipped,DFMX10021757,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014654,0.0398941,194.36,0.0016419,,0.0013,0.01,46,MPG,,,,,26.46,0.5437,0.01539,7.45,0.26657,0.01569,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100129,0,1.6,DFMXV01.6VDF,Car,170,4,DC71S30A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.8,1,Not eqipped,DFMX10022715,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0192319,0.28484,280.29,0.0239571,,0.004604,0.01,31.8,MPG,31.3821,30.3742,35.2945,,16.96,0.5353,0.01257,1.562,0.26225,0.01294,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion
FWD,DR100129,0,1.6,DFMXV01.6VDF,Car,170,4,DC71S30A08,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.07,30.8,1,Not eqipped,DFMX10022716,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0148628,0.11435,170.831,0.0113815,,0.0042793,0.01,52.2,MPG,,,,,16.96,0.5353,0.01257,1.562,0.26225,0.01294,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion HEV
FWD,DR100031,0,2,DFMXV02.0VZL,Car,141,4,DC71HV0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.61,48.5,1,Not eqipped,DFMX10021354,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0146638,0.530125,136.181,0.0060401,,0.0027692,0.01,65.3,MPG,61.3414,68.428,,,22.68,0.3402,0.01441,4.031,0.13007,0.01456,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Fusion HEV

FWD,DR100031,0,2,DFMXV02.0VZL,Car,141,4,DC71HV0509,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.61,48.5,1,Not eqipped,DFMX10021355,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0010846,0.173231,131.676,0.0001925,,0.0005099,0.01,67.6,MPG,,,,,22.68,0.3402,0.01441,4.031,0.13007,0.01456,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MKS AWD,207Y902,5,3.5,DFMXV03.5VEP,Car,365,6,DLE1GT0A08,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.77,24.9,1,Not eqipped,DFMX10019050,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.011,0.01,21.4,MPG,,,,,35.6,0.4189,0.0218,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MKS AWD,207Y902,5,3.5,DFMXV03.5VEP,Car,365,6,DLE1GT0A08,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.77,24.9,1,Not eqipped,DFMX10019051,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0013,0.01,35.6,MPG,,,,,35.6,0.4189,0.0218,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MKZ (HEV),DC91-2.0-J-267,0,2,DFMXV02.0VZL,Car,141,4,DC91HM0508,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.61,46.9,1,Not eqipped,DFMX91001409,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034137,0.282129,174.6022024,0.0086701,,0.0009721,0.01,50.8,MPG,,,,,37,0.3282,0.01553,12.737,0.15973,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MKZ (HEV),DC91-2.0-J-267,0,2,DFMXV02.0VZL,Car,141,4,DC91HM0508,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.61,46.9,1,Not eqipped,DFMX91001410,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0099081,0.3554248,171.1883121,0.0051127,0.0006,0.0018649,0.01,51.9,MPG,38.1904513,66.4416332,46.0744521,64.962348,37,0.3282,0.01553,12.737,0.15973,0.01554,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,567W779,0,3.7,BFMXV03.7VDT,Car,300,6,BZF1A60A08,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.73,24.1,1,Not eqipped,BFMX10008056,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0316904,0.275722,374.62,0.0044578,,0.0050925,,23.7,MPG,24.0215,22.0659,27.2343,,42.26,0.07,0.02325,14.87,0.02357,0.02161,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,567W779,0,3.7,BFMXV03.7VDT,Car,300,6,BZF1A60A08,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.73,24.1,1,Not eqipped,BFMX10008259,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0015591,0.0050121,221.899,0.0020642,,0.0009422,,40.1,MPG,,,,,42.26,0.07,0.02325,14.87,0.02357,0.02161,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,567W779,4,3.7,DFMXV03.7VDT,Car,300,6,DZF1A60A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.73,23.4,1,Not eqipped,DFMX10019390,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0099526,0.01,24.9,MPG,,,,,21.35,0.176,0.02062,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,567W779,4,3.7,DFMXV03.7VDT,Car,300,6,DZF1A60A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.73,23.4,1,Not eqipped,DFMX10019391,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0033323,0.01,44.2,MPG,,,,,21.35,0.176,0.02062,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,B5100034,1,3.7,BFMXV03.7VDT,Car,300,6,BZF1A60A08,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.73,23.4,1,Not eqipped,BFMX10008085,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0419871,0.358508,362.483,0.0049046,,0.0092538,,24.5,MPG,25.0219,22.8573,27.7492,,29.65,0.0953,0.02315,6.45,0.11376,0.02113,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,B5100034,1,3.7,BFMXV03.7VDT,Car,300,6,BZF1A60A08,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.73,23.4,1,Not eqipped,BFMX10008236,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.0052678,0.0138127,210.392,0.0028598,,0.0033001,,42.3,MPG,,,,,29.65,0.095
3,0.02315,6.45,0.11376,0.02113,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF1-5.0-J-
011,2,5,DFMXV05.0VD5,Car,412,8,DZF1A80A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.15,27.3,1,Not eqipped,DFMX10019404,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0177617,0.01,21.6,MPG,,,,,40.74,0.1207,0.02464,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF1-5.0-J-
011,2,5,DFMXV05.0VD5,Car,412,8,DZF1A80A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.15,27.3,1,Not eqipped,DFMX10019405,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0234733,0.01,33.8,MPG,,,,,40.74,0.1207,0.02464,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF1-5.0-L-
067,1,5,DFMXV05.0VD5,Car,412,8,DZF1A80A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.15,27.3,1,Not eqipped,DFMX10019402,Yes,2,CVS 75 and later (w/o
can. load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0122911,0.01,22.1,MPG,,,,,40.74,0.1207,0.02346,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF1-5.0-L-
067,1,5,DFMXV05.0VD5,Car,412,8,DZF1A80A07,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.15,27.3,1,Not eqipped,DFMX10019403,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.001345,0.01,35.5,MPG,,,,,40.74,0.1207,0.02346,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,BZF2-3.7-L-
066,4,3.7,DFMXV03.7VDT,Car,300,6,DZF2A60A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,2.73,24,1,Not eqipped,DFMX10019385,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0068737,0.01,23.3,MPG,,,,,24.88,0.4143,0.01808,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,BZF2-3.7-L-
066,4,3.7,DFMXV03.7VDT,Car,300,6,DZF2A60A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,2.73,24,1,Not eqipped,DFMX10019386,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0038734,0.01,40.7,MPG,,,,,24.88,0.4143,0.01808,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,BZF2-3.7-L-
066,4,3.7,DFMXV03.7VDT,Car,300,6,DZF2A60A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,2.73,24,1,Not eqipped,DFMX10019387,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0135666,0.01,23.3,MPG,,,,,24.88,0.4143,0.01808,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Mustang,BZF2-3.7-L-
066,4,3.7,DFMXV03.7VDT,Car,300,6,DZF2A60A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,2.73,24,1,Not eqipped,DFMX10019388,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.003919,0.01,40.7,MPG,,,,,24.88,0.4143,0.01808,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF2-5.0-L-
070,1,5,DFMXV05.0VD5,Car,412,8,DZF2A80A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.31,27.5,1,Not eqipped,DFMX10019115,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0297019,0.820983,464.195,0.0117032,,0.0101511,0.01,19.1,MPG,20.3786,17.3
775,22.3118,,30.39,0.4269,0.0184,13.69,0.0817,0.02021,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF2-5.0-L-
070,1,5,DFMXV05.0VD5,Car,412,8,DZF2A80A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.31,27.5,1,Not eqipped,DFMX10019116,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014632,0.198923,249.593,0.0033719,,0.0018025,0.01,35.6,MPG,,,,,30.39,0.
4269,0.0184,13.69,0.0817,0.02021,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,MUSTANG,BZF2-5.0-L-

070,1,5,DFMXV05.0VD5,Car,412,8,DZF2A80A07,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.31,27.5,1,Not eqipped,DFMX10019117,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0365822,0.722309,459.5,0.0107612,,0.0099513,0.01,19.3,MPG,20.5592,17.6648,22.2736,,30.39,0.4269,0.0184,13.69,0.0817,0.02021,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MUSTANG,D5199854,0,5.8,DFMXV05.8VE2,Car,650,8,DZF2BT0508A,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,20.7,1,Not eqipped,DFMX10020061,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0267597,0.608587,458.891,0.021017,,0.0058316,0.01,19.3,MPG,19.5307,18.0714,22.0291,,37.46,0.4532,0.0225,16.232,0.20646,0.02349,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MUSTANG,D5199854,0,5.8,DFMXV05.8VE2,Car,650,8,DZF2BT0508A,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,20.7,1,Not eqipped,DFMX10020062,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0042892,0.256796,260.329,0.0042226,,0.0023222,0.01,34.1,MPG,,,,,37.46,0.4532,0.0225,16.232,0.20646,0.02349,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MUSTANG,DFZ2-5.8-J-280,0,5.8,DFMXV05.8VE2,Car,650,8,DZF2AT0505A,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,20.7,1,Not eqipped,DFMX91001272,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0036443,0.238653,286.1770392,0.0037533,,0.0023913,0.01,31.1,MPG,,,,,37.46,0.4532,0.0227,17.197,0.0696,0.02485,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,MUSTANG,DFZ2-5.8-J-280,0,5.8,DFMXV05.8VE2,Car,650,8,DZF2AT0505A,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,20.7,1,Not eqipped,DFMX91001282,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0248663,0.556182,518.0549759,0.015011,,0.0050028,0.01,17.2,MPG,17.3756628,15.9681762,19.7517226,,37.46,0.4532,0.0227,17.197,0.0696,0.02485,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-326,5,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019478,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0062632,0.01,41.2,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-326,5,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019479,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0127042,0.01,24.5,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-326,10,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not eqipped,DFMX10019474,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0127042,0.01,24.4,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-326,10,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not eqipped,DFMX10019475,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0062632,0.01,40.8,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-326,11,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not eqipped,DFMX10019476,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0063648,0.01,24.2,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus,DPH3-3.5-L-

326,11,3.5,DFMXV03.7VE8,Car,285,6,DPH1FT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not eqipped,DFMX10019477,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0046418,0.01,39.1,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,28.9,1,Not eqipped,DFMX10019297,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0120607,0.482212,365.753,0.0105145,,0.0063648,0.01,24.3,MPG,24.4971,22.8576,27.3457,,22.75,0.4913,0.01923,2.768,0.33192,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,28.9,1,Not eqipped,DFMX10019301,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0101553,0.211986,224.595,0.0064106,,0.0046418,0.01,39.5,MPG,,,,,22.75,0.4913,0.01923,2.768,0.33192,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,2,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,28.9,1,Not eqipped,DFMX10019242,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,0.0109488,0.01,16.9,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,2,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A06,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,28.9,1,Not eqipped,DFMX10019243,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,0.0086112,0.01,28.7,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,3,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0A07,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019309,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0063648,0.01,22.7,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,3,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0A07,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019310,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0046418,0.01,36,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,3,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0A07,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019311,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,0.0109488,0.01,15.7,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,3,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0A07,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019312,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,0.0086112,0.01,26.1,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-326,4,3.5,DFMXV03.7VE8,Car,285,6,DPH1AT0507,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019313,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0063648,0.01,22.7,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-

326,4,3.5,DFMXV03.7VE8,Car,285,6,DPH1AT0507,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,31,1,Not eqipped,DFMX10019314,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0046418,0.01,36,MPG,,,,,28.71,0.6405,0.01801,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,6,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not eqipped,DFMX10019452,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0063648,0.01,24.2,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,6,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0508,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not eqipped,DFMX10019453,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0046418,0.01,39.1,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,7,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019454,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,0.0109488,0.01,17.2,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,7,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019455,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,0.0086112,0.01,29.8,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,7,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019456,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0127042,0.01,24.5,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,7,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.4,1,Not eqipped,DFMX10019457,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0062632,0.01,41.2,MPG,,,,,18.96,0.4742,0.02006,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,8,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not eqipped,DFMX10019458,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,,,,0.0109488,0.01,17.1,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,8,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not eqipped,DFMX10019459,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,,,,0.0086112,0.01,29.5,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,8,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not eqipped,DFMX10019460,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0127042,0.01,24.4,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,8,3.5,DFMXV03.5VEA,Car,285,6,DPH1AT0507,A,Automatic,6,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,4250,2.77,25.3,1,Not
eqipped,DFMX10019461,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0062632,0.01,40.8,MPG,,,,,22.75,0.4913,0.01923,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,9,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A08,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not eqipped,DFMX10019472,Yes,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,,,,,,0.0109488,0.01,16.8,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus FFV,DPH3-3.5-L-
326,9,3.5,DFMXV03.5VEA,Car,285,6,DPH1FT0A08,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.16,29.1,1,Not
eqipped,DFMX10019473,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,,,,,,0.0086112,0.01,28.4,MPG,,,,,24.16,0.4724,0.0195,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police,DPH1-3.5-J-
214,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A00,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10019157,No,21,Federal fuel 2-day
exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0178215,0.655843,396.917,0.004825,,0.0142412,0.01,15.7,MPG,15.3433,15.0
779,17.5792,,38.77,0.7228,0.02021,14.346,0.44232,0.02035,TWC,Three-way
catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police,DPH1-3.5-J-
214,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A00,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10019158,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.0163573,0.353558,256.639,0.0041331,,0.0135309,0.01,24.3,MPG,,,,,38.77,0
.7228,0.02021,14.346,0.44232,0.02035,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police,DPH1-3.5-J-
214,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A00,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10019159,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0255365,0.771763,406.628,0.014105,,0.0102494,0.01,21.8,MPG,21.523,20.830
6,24.2781,,38.77,0.7228,0.02021,14.346,0.44232,0.02035,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police,DPH1-3.5-J-
214,1,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A00,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.39,30.6,1,Not eqipped,DFMX10019160,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0183003,0.359019,263.047,0.0166241,,0.0079127,0.01,33.8,MPG,,,,,38.77,0.
7228,0.02021,14.346,0.44232,0.02035,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police AWD,DPH1-3.5-L-
329,0,3.5,DFMXV03.5VEP,Car,365,6,DPH1LP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.16,28.5,1,Not eqipped,DFMX10018807,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.015213,0.142748,449.629,0.0130203,,0.0060676,0.01,19.8,MPG,19.5834,18.80
38,22.1644,,46.06,0.429,0.02372,14.82,0.2507,0.0229,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police AWD,DPH1-3.5-L-
329,0,3.5,DFMXV03.5VEP,Car,365,6,DPH1LP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.16,28.5,1,Not eqipped,DFMX10018808,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012489,0.0103533,281.4,0.00348,,0.0015141,0.01,31.7,MPG,,,,,46.06,0.429
,0.02372,14.82,0.2507,0.0229,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police AWD,DPH1-3.5-L-
329,0,3.5,DFMXV03.5VEP,Car,365,6,DPH1LP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.16,28.5,1,Not eqipped,DFMX10018809,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0142282,0.151499,458.477,0.0140121,,0.0056413,0.01,19.4,MPG,19.1243,18.3
905,21.9364,,46.06,0.429,0.02372,14.82,0.2507,0.0229,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police AWD,DPH1-3.5-L-
329,0,3.5,DFMXV03.5VEP,Car,365,6,DPH1LP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4750,3.16,28.5,1,Not eqipped,DFMX10018810,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034504,0.0327049,283.601,0.0046434,,0.0030129,0.01,31.3,MPG,,,,,46.06,0
.429,0.02372,14.82,0.2507,0.0229,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV AWD,DPH1-3.7-J-
454,0,3.7,DFMXV03.5VEA,Car,305,6,DPH1BP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,3.39,30.6,1,Not eqipped,DFMX10022284,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0184959,0.509372,256.32,0.0030537,,0.009055,0.01,34.8,MPG,,,,,36.27,0.71
51,0.0202,11.953,0.32089,0.02178,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV AWD,DPH1-3.7-J-
454,0,3.7,DFMXV03.5VEA,Car,305,6,DPH1BP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,3.39,30.6,1,Not eqipped,DFMX10022571,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0266026,0.921254,388.877,0.0109843,,0.0108215,0.01,22.9,MPG,22.2466,21.9
532,25.4296,,36.27,0.7151,0.0202,11.953,0.32089,0.02178,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV AWD,DPH1-3.7-J-
454,0,3.7,DFMXV03.5VEA,Car,305,6,DPH1BP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,3.39,30.6,1,Not eqipped,DFMX10022711,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.0199,0.6167,241.5857,0.0022,,0.0157,0.01,25.8,MPG,,,,,36.27,0.7151,0.02
02,11.953,0.32089,0.02178,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV AWD,DPH1-3.7-J-
454,0,3.7,DFMXV03.5VEA,Car,305,6,DPH1BP0A06,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,3.39,30.6,1,Not eqipped,DFMX10022788,No,21,Federal fuel 2-day
exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.01778,0.481,363.3,0.0203,,0.01107,0.01,17.2,MPG,16.6954,16.4759,19.3528
,,36.27,0.7151,0.0202,11.953,0.32089,0.02178,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV FWD,DPH1-3.5-L-
325,0,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,3.16,28.5,1,Not eqipped,DFMX10019163,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0123521,0.352703,389.431,0.0176715,,0.0100038,0.01,16.1,MPG,16.2692,14.
9865,18.4213,,34.28,0.4203,0.02249,8.97,0.19025,0.02266,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV FWD,DPH1-3.5-L-
325,0,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,3.16,28.5,1,Not eqipped,DFMX10019164,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.005204,0.201777,237.695,0.0059767,,0.0055471,0.01,26.3,MPG,,,,,34.28,0.
4203,0.02249,8.97,0.19025,0.02266,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV FWD,DPH1-3.5-L-
325,0,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,3.16,28.5,1,Not eqipped,DFMX10019165,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0103973,0.300159,387.194,0.0208251,,0.0052201,0.01,23,MPG,23.1865,21.694
2,25.6095,,34.28,0.4203,0.02249,8.97,0.19025,0.02266,TWC,Three-way catalyst,Y,,,N,No
averaging

2013,FOMOCO,FMX,Ford,Taurus Police FFV FWD,DPH1-3.5-L-
325,0,3.5,DFMXV03.5VEA,Car,285,6,DPH1AP0A06,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,3.16,28.5,1,Not
eqipped,DFMX10019166,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.011671,0.284132,240.736,0.0072313,,0.0056357,0.01,36.9,MPG,,,,,34.28,0.4
203,0.02249,8.97,0.19025,0.02266,TWC,Three-way catalyst,Y,,,N,No averaging

2013,FOMOCO,FMX,FORD,TRANSIT
CONNECT,AT014739,0,2,BFMXT02.01DV,Truck,140,4,AC71A20530,A,Automatic,4,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3625,3.96,39.4,1,Not
eqipped,BFMX10021312,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.00106,0.01,26.4,MPG,,,,,30.78,0.3441,0.0279,5.76,0.30837,0.02711,TW

C,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,TRANSIT
CONNECT,AT014739,0,2,BFMXT02.01DV,Truck,140,4,AC71A20530,A,Automatic,4,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3625,3.96,39.4,1,Not
eqipped,BFMX10021313,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0074,0.01,37.5,MPG,,,,,30.78,0.3441,0.0279,5.76,0.30837,0.02711,TWC
,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,TRANSIT
CONNECT,AT014739,1,2,CFMXT02.01DW,Truck,136,4,BC71B20531,A,Automatic,4,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3750,3.96,39.4,1,Not
eqipped,CFMX10014763,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01347,0.183522,238.137,0.0066875,,0.006589,,37.3,MPG,,,,,25.28,0.4069,0.
02759,5.236,0.22709,0.02809,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,FORD,TRANSIT
CONNECT,AT014739,1,2,CFMXT02.01DW,Truck,136,4,BC71B20531,A,Automatic,4,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3750,3.96,39.4,1,Not
eqipped,CFMX10014867,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0387568,0.464977,323.593,0.0047951,,0.0094547,,27.4,MPG,25.3724,27.6486,
28.6589,,25.28,0.4069,0.02759,5.236,0.22709,0.02809,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10011262,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0372517,0.626057,518.335,0.0180098,,0.0244821,,12.1,MPG,11.5715,11.6005
,13.5427,,45.09,0.3638,0.03763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10011263,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0020244,0.155138,329.92,0.0047196,,0.002827,,19,MPG,,,,,45.09,0.3638,0.
03763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10011266,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0458392,1.00303,537.439,0.0106713,,0.01007,,16.5,MPG,16.076,15.793,18.37
71,,45.09,0.3638,0.03763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10011267,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0059414,0.276838,341.55,0.00651,,0.0046174,,26,MPG,,,,,45.09,0.3638,0.03
763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10021962,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,542,,,0.01007,0.01,16.4,MPG,16,15.7,18.3,,45.09,0.3638,0.03763,18.14,0.0
2095,0.03808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION
4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,27.9,1,Not
eqipped,BFMX10021963,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,346,,,0.0046174,0.01,25.7,MPG,,,,,45.09,0.3638,0.03763,18.14,0.02095,0.0
3808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION

4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,3.73,27.9,1,Not eqipped,BFMX10021964,Yes,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,,,520,,,0.0244821,0.01,12.1,MPG,11.6,11.6,13.5,,45.09,0.3638,0.03763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION 4X2,BEA12832,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,3.73,27.9,1,Not eqipped,BFMX10021965,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,,,335,,,0.0028,0.01,18.8,MPG,,,,,45.09,0.3638,0.03763,18.14,0.02095,0.03808,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION 4X2,BEA12833,0,5.4,BFMXT05.44HY,Truck,310,8,AB714A0A20,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,BFMX10011170,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.038662,0.525005,492.854,0.044747,,0.0269555,,12.7,MPG,12.3688,12.0766,14.378,,41.49,0.3533,0.03618,18.09,0.042,0.03618,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION 4X2,BEA12833,0,5.4,BFMXT05.44HY,Truck,310,8,AB714A0A20,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,BFMX10011171,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0056801,0.0694762,305.943,0.0040887,,0.0054651,,20.5,MPG,,,,,41.49,0.3533,0.03618,18.09,0.042,0.03618,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION 4X2,BEA12833,0,5.4,BFMXT05.44HY,Truck,310,8,AB714A0A20,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,BFMX10011264,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.062116,0.876747,511.917,0.0249417,,0.012899,,17.3,MPG,16.9967,16.3976,19.6604,,41.49,0.3533,0.03618,18.09,0.042,0.03618,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,EXPEDITION 4X2,BEA12833,0,5.4,BFMXT05.44HY,Truck,310,8,AB714A0A20,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.31,24.8,1,Not eqipped,BFMX10011265,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0057985,0.164622,318.564,0.0069262,,0.0050441,,27.8,MPG,,,,,41.49,0.3533,0.03618,18.09,0.042,0.03618,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS,DLE3-3.7-H-333,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,29.1,1,Not eqipped,DFMX91001253,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0134285,0.3429781,243.5828256,0.0058098,,0.0070751,0.01,36.4,MPG,,,,,21.61,0.6353,0.01709,-2.994,0.46697,0.01727,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS,DLE3-3.7-H-333,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,29.1,1,Not eqipped,DFMX91001255,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0234879,0.579096,407.6771613,0.0220112,,0.0107572,0.01,21.8,MPG,21.6599419,20.5001849,24.8546712,,21.61,0.6353,0.01709,-2.994,0.46697,0.01727,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS,DLE3-3.7-H-333,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,29.1,1,Not eqipped,DFMX91001274,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0094098,0.3024927,241.5191082,0.008301,,0.0052894,0.01,36.7,MPG,,,,,21.61,0.6353,0.01709,-2.994,0.46697,0.01727,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS,DLE3-3.7-H-333,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,4500,3.16,29.1,1,Not eqipped,DFMX91001275,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0219682,0.7934512,407.5111411,0.0073543,,0.0086418,0.01,21.8,MPG,21.897328,20.4351085,24.7692161,,21.61,0.6353,0.01709,-2.994,0.46697,0.01727,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS FWD,DG600001,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,28.4,1,Not eqipped,DFMX10019199,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0262278,0.406686,370.595,0.0152166,,0.0116494,0.01,24,MPG,24.3028,22.4545,27.1626,,26.04,0.5909,0.01736,-1.23,0.41602,0.01743,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS FWD,DG600001,0,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.16,28.4,1,Not eqipped,DFMX10019200,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0146396,0.26643,224.927,0.0054755,,0.0077887,0.01,39.5,MPG,,,,,26.04,0.5909,0.01736,-1.23,0.41602,0.01743,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS FWD,DG600001,1,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,31.2,1,Not eqipped,DFMX10019203,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0116494,0.01,22.6,MPG,,,,,26.29,0.7083,0.01723,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKS FWD,DG600001,1,3.7,DFMXV03.7VE8,Car,304,6,DLE1FT0A06,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,31.2,1,Not eqipped,DFMX10019204,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0077887,0.01,36.7,MPG,,,,,26.29,0.7083,0.01723,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-319,2,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.16,27.9,1,Not eqipped,DFMX10019464,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0163417,0.01,21.6,MPG,,,,,23.59,0.717,0.02272,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-319,2,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.16,27.9,1,Not eqipped,DFMX10019465,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0073498,0.01,34.2,MPG,,,,,23.59,0.717,0.02272,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-319,2,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.16,27.9,1,Not eqipped,DFMX10019466,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,0.0073346,0.01,34.2,MPG,,,,,23.59,0.717,0.02272,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-319,2,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.16,27.9,1,Not eqipped,DFMX10019495,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0105255,0.01,21.6,MPG,,,,,23.59,0.717,0.02272,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-319,3,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.16,28,1,Not eqipped,DFMX10019467,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,0.0163417,0.01,20.9,MPG,,,,,26.17,0.928,0.02125,0,0,0,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-
319,3,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28,1,Not eqipped,DFMX10019468,Yes,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,,,,,,0.0073498,0.01,32.8,MPG,,,,,26.17,0.928,0.02125,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-
319,3,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28,1,Not eqipped,DFMX10019469,Yes,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,,,,,,0.0073346,0.01,32.8,MPG,,,,,26.17,0.928,0.02125,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKT,DP43-3.7-J-
319,3,3.7,DFMXV03.7VE8,Car,300,6,DP41T60505,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.16,28,1,Not eqipped,DFMX10019496,Yes,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0105255,0.01,20.9,MPG,,,,,26.17,0.928,0.02125,0,0,0,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKTLivery,DBL50063,0,2,DFMXV02.0VE6,Car,237,4,DP41T40509,SA,Sem
i-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.36,29.9,1,Not
eqipped,DFMX10020347,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0093675,0.638568,343.419,0.0090748,,0.0032413,0.01,25.8,MPG,24.7104,25.0
793,28.2832,,25.87,0.4276,0.02695,-0.647,0.24338,0.02501,TWC,Three-way
catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKTLivery,DBL50063,0,2,DFMXV02.0VE6,Car,237,4,DP41T40509,SA,Sem
i-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.36,29.9,1,Not
eqipped,DFMX10020348,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0065696,0.217102,227.436,0.0027167,,0.003482,0.01,39.1,MPG,,,,,25.87,0.4
276,0.02695,-0.647,0.24338,0.02501,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKTLivery,DP41-2.0-J-
247,0,2,DFMXV02.0VE6,Car,237,4,DP41T40506,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.36,29.9,1,Not eqipped,DFMX10019415,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0148881,0.725703,356.678,0.0064758,,0.0030279,0.01,24.8,MPG,23.2684,24.5
179,26.8483,,28.08,0.4388,0.02591,3.6,0.42317,0.02416,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Lincoln,MKTLivery,DP41-2.0-J-
247,0,2,DFMXV02.0VE6,Car,237,4,DP41T40506,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4750,3.36,29.9,1,Not
eqipped,DFMX10019416,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0037705,0.255393,257.96,0.0012185,,0.0023844,0.01,34.4,MPG,,,,,28.08,0.4
388,0.02591,3.6,0.42317,0.02416,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKZ
AWD,DR800021,0,3.7,DFMXV03.7VE8,Car,305,6,DC91AL0506,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.65,35.2,1,Not eqipped,DFMX10022354,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.025567,0.929462,391.561,0.0191417,,0.0116948,0.01,22.7,MPG,22.512,21.494
1,25.6402,,28.68,0.7752,0.01235,0.248,0.6454,0.00917,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,Lincoln,MKZ
AWD,DR800021,0,3.7,DFMXV03.7VE8,Car,305,6,DC91AL0506,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.65,35.2,1,Not eqipped,DFMX10022355,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0100493,0.251867,246.347,0.0193395,,0.006862,0.01,36.2,MPG,,,,,28.68,0.7
752,0.01235,0.248,0.6454,0.00917,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKZ
AWD,DR800021,0,3.7,DFMXV03.7VE8,Car,305,6,DC91AL0506,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.65,35.2,1,Not eqipped,DFMX10022376,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,381,,,0.0116948,0.01,23.3,MPG,23.1,22.1,26.3,,28.68,0.7752,0.01235,0.248

,0.6454,0.00917,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,Lincoln,MKZ
AWD,DR800021,0,3.7,DFMXV03.7VE8,Car,305,6,DC91AL0506,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4250,3.65,35.2,1,Not
eqipped,DFMX10022377,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,230,,,0.006862,0.01,38.6,MPG,,,,,28.68,0.7752,0.01235,0.248,0.6454,0.009
17,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR
4X4,BEA12829,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,28.1,1,Not
eqipped,BFMX10011165,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0126852,0.371533,379.327,0.0127574,,0.0082496,,23.4,MPG,,,,,60.52,0.9398
,0.03061,30.02,0.3922,0.03219,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR
4X4,BEA12829,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,28.1,1,Not
eqipped,BFMX10011167,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0210707,0.615018,369.85,0.0158781,,0.0104364,,24,MPG,,,,,60.52,0.9398,0.
03061,30.02,0.3922,0.03219,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR
4X4,BEA12829,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,28.1,1,Not
eqipped,BFMX10011174,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),FTP,0.0374546,0.546174,540.263,0.0243882,,0.0258332,,11.6,MPG,11.2135,11.1309
,12.893,,60.52,0.9398,0.03061,30.02,0.3922,0.03219,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR
4X4,BEA12829,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,28.1,1,Not
eqipped,BFMX10011175,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0096311,0.16218,360.036,0.0044424,,0.0092522,,17.4,MPG,,,,,60.52,0.9398
,0.03061,30.02,0.3922,0.03219,TWC,Three-way catalyst,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR
4X4,BEA12829,0,5.4,BFMXT05.44HY,Truck,310,8,AB714B0A20,A,Automatic,6,Y,P,Part-time 4-
Wheel Drive,2,Top gear ration < 1,6500,3.73,28.1,1,Not
eqipped,BFMX10011178,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0486301,1.20821,563.542,0.0193062,,0.0152438,,15.7,MPG,15.3205,15.1348,1
7.3138,,60.52,0.9398,0.03061,30.02,0.3922,0.03219,TWC,Three-way catalyst,N,,,N,No
averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,1,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX01086703,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0414425,1.01481,594.9089966,0.0062532,,0.0076495,,14.9,MPG,,,,,63.84,0.9
487,0.03162,29.8,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,1,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX01086705,No,3,HWFE,61,Tier 2
Cert
Gasoline,HWY,0.0005813,0.508833,392.499,0.0033943,,,,22.7,MPG,,,,,63.84,0.9487,0.03162,
29.8,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,1,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX01087385,No,21,Federal fuel
2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0333932,0.67922,564.505,0.0090451,,0.0186095,,11.1,MPG,10.6354,10.6396,
12.4487,,63.84,0.9487,0.03162,29.8,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,1,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel

Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX01087386,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0002761,0.301929,374.426,0.0036361,,,,16.7,MPG,,,,,63.84,0.9487,0.03162,29.8,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,2,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX10001520,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0391337,1.20735,606.273,0.0069363,,0.0075685,0.01,14.6,MPG,14.1654,13.9927,16.3681,,63.84,0.9487,0.03162,29.817,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,2,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX10001522,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003228,0.538542,398.22,0.0026595,,0.0006,0.01,22.3,MPG,,,,,63.84,0.9487,0.03162,29.817,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,2,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX10001523,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0335835,0.752356,574.469,0.0067504,,0.0194649,0.01,10.9,MPG,10.4717,10.4784,12.1514,,63.84,0.9487,0.03162,29.817,0.6044,0.03149,,,N,,,N,No averaging

2013,FOMOCO,FMX,LINCOLN,NAVIGATOR 4X4 EXT.,9B51-5.4-C-
796,2,5.4,9FMXT05.44BC,Truck,310,,9B714G0500A,A,Automatic,6,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,6500,3.73,28,1,Not eqipped,9FMX10001524,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0002471,0.387965,381.33,0.0030972,,0.0009,0.01,16.4,MPG,,,,,63.84,0.9487,0.03162,29.817,0.6044,0.03149,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.16,26.2,1,Not eqipped,9GMX10022075,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02422,0.52562,442.1,0.01699,,0.00619,,20.1,MPG,19.9,19.1,22.8,,46.76,0.5396,0.02706,23.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.16,26.2,1,Not
eqipped,9GMX10022076,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00986,0.11171,276,0.00994,,0.00301,,32.2,MPG,,,,,46.76,0.5396,0.02706,23.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.16,26.2,1,Not eqipped,9GMX10022077,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02422,0.52562,453.4,0.01699,,0.00619,,19.6,MPG,19.4,18.6,22.3,,46.76,0.5396,0.02706,23.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.16,26.2,1,Not
eqipped,9GMX10022078,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00986,0.11171,282.1,0.00994,,0.00301,,31.5,MPG,,,,,46.76,0.5396,0.02706,23.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,5500,3.16,26.2,1,Not eqipped,9GMX10022079,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02422,0.52562,431.4,0.01699,,0.00619,,20.6,MPG,20.4,19.6,23.4,,46.76,0.5396,0.02706,23.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCLAVE
AWD,3689ZP8000,0,3.6,9GMXT03.6151,Truck,288,,33A,A,Automatic,6,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,5500,3.16,26.2,1,Not
eqipped,9GMX10022080,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00986,0.11171,269.3,0.00994,,0.00301,,33,MPG,,,,,46.76,0.5396,0.02706,23
.6,0.365,0.02652,,,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCORE AWD,14X5SV326A,0,1.4,DGMXV01.4099,Car,138,4,5A,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,3.53,33.6,1,Not
eqipped,DGMX91001489,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0035753,0.0606904,214.5406179,0.0021293,,0.0011457,0.01,41.5,MPG,,,,,31.
9,0.3013,0.02305,13.1,0.1383,0.02205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,ENCORE AWD,14X5SV326A,0,1.4,DGMXV01.4099,Car,138,4,5A,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,3.53,33.6,1,Not
eqipped,DGMX91001491,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0400005,0.5703939,303.0402574,0.0088019,,0.0063214,0.01,29.4,MPG,27.2671
563,29.0943271,31.7454993,,31.9,0.3013,0.02305,13.1,0.1383,0.02205,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,2442G02131,0,2.4,CGMXV02.4069,Car,182,4,75,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,2.64,26.1,1,Not
eqipped,CGMX10016590,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0142447,0.788483,283.856,0.0105259,,0.0094888,,31.1,MPG,27.8,30.4,34.8,3
1.1,29.12,0.217,0.0164,6.49,0.2455,0.01461,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,2442G02131,0,2.4,CGMXV02.4069,Car,182,4,75,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,2.64,26.1,1,Not
eqipped,CGMX10016591,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0023674,0.458159,178.041,0.0027345,,0.0021185,,49.6,MPG,,,,,29.12,0.217,
0.0164,6.49,0.2455,0.01461,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,3640G55471,0,3.6,CGMXJ03.6166,Both,280,6,29,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,26.1,1,Not
eqipped,CGMX10014726,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.01407,0.1678,396.391,0.0014,,0.00879,,15.7,MPG,,,,,38.06,0.3569,0.01694
,18.04,-0.0627,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,3640G55471,0,3.6,CGMXJ03.6166,Both,280,6,29,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,26.1,1,Not
eqipped,CGMX10014727,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00206,0.02249,235.07,0.00216,,0.0021,,26.5,MPG,,,,,38.06,0.3569,0.01694
,18.04,-0.0627,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,3640G55471,0,3.6,CGMXJ03.6166,Both,280,6,29,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.77,26.1,1,Not
eqipped,CGMX10021144,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.01407,0.1678,419.7,0.0014,,0.00879,,15,MPG,,,,,38.06,0.3569,0.01694,18.
04,-0.0627,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,LACROSSE,3640G55471,0,3.6,CGMXJ03.6166,Both,280,6,29,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,2.77,26.1,1,Not
eqipped,CGMX10021145,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00206,0.02249,250.8,0.00216,,0.0021,,25.1,MPG,,,,,38.06,0.3569,0.01694,
18.04,-0.0627,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,204CGN4304,4,2,DGMXV02.0001,Car,220,4,1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,DGMX10020635,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0405147,0.916488,386.4,0.0237192,,0.0180222,,23,MPG,22.3,21.8,26.7,,33.5
8,0.4929,0.01487,4.54,0.3822,0.0136,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,204CGN4304,4,2,DGMXV02.0001,Car,220,4,1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,DGMX10020636,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0052109,0.357784,222.2,0.0040339,,0.0037795,,40,MPG,,,,,33.58,0.4929,0.0
1487,4.54,0.3822,0.0136,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,204CGN4328,0,2,CGMXV02.0021,Car,260,4,1A,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,29.6,1,Not

eqipped,CGMX10018374,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0260739,0.629107,373.381,0.0042716,,0.0079389,,23.7,MPG,22.3,23.2,25.9,,
40.32,0.1901,0.0206,-11.15,-0.0486,0.02638,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,204CGN4328,0,2,CGMXV02.0021,Car,260,4,1A,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,29.6,1,Not
eqipped,CGMX10018375,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001931,0.350181,236.938,0.000005,,0.0014566,,37.4,MPG,,,,,40.32,0.1901,0
.0206,-11.15,-0.0486,0.02638,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20X703P202,2,2,BGMXV02.0001,Car,220,4,1C,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,29.2,1,Not
eqipped,BGMX10018851,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.0408129,0.347927,391.911,0.0075574,,0.0316239,,16.7,MPG,,,,,28.92,0.492
4,0.01482,10.78,0.4236,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20X703P202,2,2,BGMXV02.0001,Car,220,4,1C,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,29.2,1,Not
eqipped,BGMX10018852,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0070951,0.160585,224.909,0.0010034,,0.0056974,,29.4,MPG,,,,,28.92,0.492
4,0.01482,10.78,0.4236,0.01489,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20XP6046,4,2,DGMXV02.0001,Car,220,4,2,M,Manual,6,N,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4000,3.76,29.6,1,Not
eqipped,DGMX10020637,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.063,1.032,355.5,0.032,,0.024,,25,MPG,24.6,23.3,29,,25.88,0.4068,0.01692,
2.36,-0.0869,0.01916,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20XP6046,4,2,DGMXV02.0001,Car,220,4,2,M,Manual,6,N,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4000,3.76,29.6,1,Not
eqipped,DGMX10020638,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.004,0.28,199.7,0.007,,0.003,,44.5,MPG,,,,,25.88,0.4068,0.01692,2.36,-
0.0869,0.01916,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20XP6046,4,2,DGMXV02.0001,Car,220,4,2,M,Manual,6,N,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4000,3.76,29.6,1,Not
eqipped,DGMX10020639,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.0757,0.486,340.3,0.031,,0.0546,,18.5,MPG,21.9,20.7,26.8,,25.88,0.4068,0
.01692,2.36,-0.0869,0.01916,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,20XP6046,4,2,DGMXV02.0001,Car,220,4,2,M,Manual,6,N,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,4000,3.76,29.6,1,Not
eqipped,DGMX10020640,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0052,0.087,203.1,0.0037,,0.0045,,31,MPG,,,,,25.88,0.4068,0.01692,2.36,-
0.0869,0.01916,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,2442G02120,0,2.4,CGMXJ02.4151,Both,182,4,98,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10016414,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.01518,0.15776,338.398,0.00577,,0.00551,,18.4,MPG,,,,,33.29,0.1767,0.020
29,7.9,0.1329,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,2442G02120,0,2.4,CGMXJ02.4151,Both,182,4,98,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10016415,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00055,0.03282,199.756,0.02525,,0.00127,,31.2,MPG,,,,,33.29,0.1767,0.020
29,7.9,0.1329,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,2442G02120,0,2.4,CGMXJ02.4151,Both,182,4,98,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10016470,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00057,0.0316,200.128,0.02368,,0.00127,,31.2,MPG,,,,,33.29,0.1767,0.0202
9,7.9,0.1329,0.01868,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,244CGN4309,0,2.4,CGMXJ02.4150,Both,182,4,97,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10015700,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert

Gasoline,FTP,0.0064124,0.390079,361.136,0.0034897,,0.0018648,,24.5,MPG,24,23.1,28.4,,33
.29,0.1767,0.02029,8.29,0.1136,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,244CGN4309,0,2.4,CGMXJ02.4150,Both,182,4,97,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10015817,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012024,0.10784,202.626,0.0022861,,0.0002123,,43.6,MPG,,,,,33.29,0.1767,
0.02029,8.29,0.1136,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,244CGN4309,0,2.4,CGMXJ02.4150,Both,182,4,97,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10021154,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0064124,0.390079,361.136,0.0034897,,0.0018648,,24.5,MPG,24,23.1,28.4,,33
.29,0.1767,0.02029,8.29,0.1136,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,REGAL,244CGN4309,0,2.4,CGMXJ02.4150,Both,182,4,97,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,30.8,1,Not
eqipped,CGMX10021155,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012024,0.10784,202.626,0.0022861,,0.0002123,,43.6,MPG,,,,,33.29,0.1767,
0.02029,8.29,0.1136,0.01887,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,204DPN4121,0,2,DGMXV02.0021,Car,250,4,8,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,3.55,29,1,Not
eqipped,DGMX91001419,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006208,0.095313,203.4610451,0.0016427,,0.0003809,0.01,43.8,MPG,,,,,27.6
1,0.4377,0.0166,8.44,0.1601,0.01785,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,204DPN4121,0,2,DGMXV02.0021,Car,250,4,8,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,3.55,29,1,Not
eqipped,DGMX91001420,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0281078,0.6593072,345.4409391,0.0106039,,0.0103665,0.01,25.7,MPG,25.9146
475,24.2448051,28.7557078,,27.61,0.4377,0.0166,8.44,0.1601,0.01785,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,244CPP4629,0,2.4,CGMXJ02.4151,Both,180,4,30,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.23,31.9,1,Not
eqipped,CGMX10017383,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0190524,0.663592,336.451,0.0028056,,0.0045239,,26.3,MPG,25.3,24.9,30.3,,
34.72,0.1896,0.01799,10.11,0.111,0.01535,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,244CPP4629,0,2.4,CGMXJ02.4151,Both,180,4,30,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.23,31.9,1,Not
eqipped,CGMX10017385,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.01298,0.18502,332.646,0.0084,,0.00605,,18.7,MPG,,,,,34.72,0.1896,0.0179
9,10.11,0.111,0.01535,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,244CPP4629,0,2.4,CGMXJ02.4151,Both,180,4,30,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.23,31.9,1,Not
eqipped,CGMX10017440,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.006413,0.278274,199.169,0.0030389,,0.001479,,44.5,MPG,,,,,34.72,0.1896,0
.01799,10.11,0.111,0.01535,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,BUICK,VERANO,244CPP4629,0,2.4,CGMXJ02.4151,Both,180,4,30,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.23,31.9,1,Not
eqipped,CGMX10017441,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00379,0.19635,194.104,0.00169,,0.00263,,32.1,MPG,,,,,34.72,0.1896,0.017
99,10.11,0.111,0.01535,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.5,1,Not
eqipped,AGMX10005645,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02006,0.20863,231.041,0.00394,,,,38.3,MPG,,,,,32.84,0.3945,0.01736,11.6,
-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.5,1,Not
eqipped,AGMX10005646,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06606,0.65675,382.382,0.00708,,,,23.1,MPG,,,,,32.84,0.3945,0.01736,11.6,
-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.5,1,Not eqipped,AGMX10020891,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02006,0.20863,243.5,0.00394,,0.01209,,36.5,MPG,,,,,32.84,0.3945,0.01736,11.6,-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.23,27.5,1,Not eqipped,AGMX10020892,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.06606,0.65675,402.1,0.00708,,0.01865,,22.1,MPG,21.3,21,25.3,,32.84,0.3945,0.01736,11.6,-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.23,27.5,1,Not eqipped,AGMX10020893,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02006,0.20863,245.5,0.00394,,0.01209,,36.2,MPG,,,,,32.84,0.3945,0.01736,11.6,-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADN8001,0,3,AGMXJ03.0157,Both,265,6,55,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.23,27.5,1,Not eqipped,AGMX10020894,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.06606,0.65675,404,0.00708,,0.01865,,22,MPG,21.2,20.9,25.2,,32.84,0.3945,0.01736,11.6,-0.018,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DM69,306ADP4640,0,3,AGMXJ03.0157,Both,265,6,54,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.42,32.4,2,"Equipped, not shifted by SIL",AGMX10006409,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.05104,0.55613,475.168,0.0317,,,,18.6,MPG,,,,,21.88,0.6608,0.01424,0,0.378,0.0156,TWC,Three-way catalyst,N,A,0.29,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,6DM69,306ADP4640,0,3,AGMXJ03.0157,Both,265,6,54,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.42,32.4,2,"Equipped, not shifted by SIL",AGMX10006410,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00755,0.1701,250.864,0.00265,,,,35.3,MPG,,,,,21.88,0.6608,0.01424,0,0.378,0.0156,TWC,Three-way catalyst,N,A,0.29,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,6DM69,306ADP4640,1,3,AGMXJ03.0157,Both,265,6,54,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.42,32.4,3,"Equipped, shifted by SIL",AGMX91000367,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0194107,0.2681847,236.4924064,0.0045839,,0.01132,,37.6,MPG,,,,,21.88,0.6608,0.01424,0,0.378,0.0156,TWC,Three-way catalyst,N,A,0.71,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,6DM69,306ADP4640,1,3,AGMXJ03.0157,Both,265,6,54,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.42,32.4,3,"Equipped, shifted by SIL",AGMX91000368,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0934255,1.2664501,386.1094153,0.012823,,0.0331675,,22.9,MPG,21.5508342,21.9193749,26.2759417,,21.88,0.6608,0.01424,0,0.378,0.0156,TWC,Three-way catalyst,N,A,0.71,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,6DP35,3660D74413,0,3.6,AGMXV03.6053,Car,304,6,85,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.42,29.3,1,Not eqipped,AGMX10002486,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03096,0.15397,399.586,0.02015,,,,22.2,MPG,,,,,34.33,0.3988,0.01928,5.4,0.097,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DP35,3660D74413,0,3.6,AGMXV03.6053,Car,304,6,85,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.42,29.3,1,Not eqipped,AGMX10002487,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01963,0.12182,239.963,0.00285,,,,37,MPG,,,,,34.33,0.3988,0.01928,5.4,0.097,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DP35,3660D74413,0,3.6,AGMXV03.6053,Car,304,6,85,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.42,29.3,1,Not eqipped,AGMX10020757,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03096,0.15397,398.5,0.02015,,0.01219,,22.3,MPG,21,21.4,25.7,,34.33,0.3988,0.01928,5.4,0.097,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,6DP35,3660D74413,0,3.6,AGMXV03.6053,Car,304,6,85,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.42,29.3,1,Not eqipped,AGMX10020759,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01963,0.12182,238.3,0.00285,,0.00726,,37.3,MPG,,,,,34.33,0.3988,0.01928,5.4,0.097,0.0212,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022687,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0400965,0.968147,202.309,0.0011202,,0.017861,,43.8,MPG,,,,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022790,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0359277,0.757522,336.202,0.0091073,,0.0164915,,26.4,MPG,26,24.8,30.6,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022791,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0338813,0.741272,338.777,0.0106525,,0.0164179,,26.2,MPG,25.6,24.7,30.4,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022815,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0359277,0.757522,348.5,0.0091073,,0.0164915,,25.5,MPG,25.1,24,29.6,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022816,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0400965,0.968147,212.1,0.0011202,,0.017861,,41.9,MPG,,,,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2063A02893,0,2,DGMXV02.0021,Car,272,4,3B,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022817,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0338813,0.741272,351.3,0.0106525,,0.0164179,,25.3,MPG,24.7,23.9,29.4,,41.32,0.299,0.01435,19.37,-0.0277,0.01597,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021399,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0122781,0.28428,310.9,0.0083103,,0.0051228,,28.5,MPG,26.8,27.4,32.6,,38.05,0.2863,0.01517,12.62,-0.0055,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021399,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0122781,0.28428,310.9,0.0083103,,0.0051228,,28.5,MPG,26.8,27.4,32.6,,38.05,0.2863,0.01517,11.03,0.0156,0.01622,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021399,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0122781,0.28428,310.9,0.0083103,,0.0051228,,28.5,MPG,26.8,27.4,32.6,,38.05,0.2863,0.01517,12.42,-0.033,0.01805,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021429,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017212,0.0969281,194.358,0.0016167,,0.0007629,,45.9,MPG,,,,,38.05,0.2863,0.01517,12.42,-0.033,0.01805,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021429,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017212,0.0969281,194.358,0.0016167,,0.0007629,,45.9,MPG,,,,,38.05,0.286

3,0.01517,12.62,-0.0055,0.01729,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,2563A95476,0,2.5,DGMXV02.5001,Car,202,4,8,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.45,32.3,1,Not eqipped,DGMX10021429,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017212,0.0969281,194.358,0.0016167,,0.0007629,,45.9,MPG,,,,,38.05,0.2863,0.01517,11.03,0.0156,0.01622,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DA07147,0,3.6,DGMXJ03.6166,Both,301,6,40,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10021395,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.01784,0.24717,352.034,0.0087,,0.01272,,17.7,MPG,,,,,42.15,0.3019,0.01418,22.23,-0.0164,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DA07147,0,3.6,DGMXJ03.6166,Both,301,6,40,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10021396,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00017,0.02825,216.494,0.00218,,0.00134,,28.9,MPG,,,,,42.15,0.3019,0.01418,22.23,-0.0164,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DA07147,0,3.6,DGMXJ03.6166,Both,301,6,40,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022236,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.01784,0.24717,374.7,0.0087,,0.01272,,16.8,MPG,,,,,42.15,0.3019,0.01418,22.23,-0.0164,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DA07147,0,3.6,DGMXJ03.6166,Both,301,6,40,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022237,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00017,0.02825,230.6,0.00218,,0.00134,,27.3,MPG,,,,,42.15,0.3019,0.01418,22.23,-0.0164,0.01606,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022234,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0065962,0.3539601,396.7,0.0180192,,0.004227,,22.4,MPG,21.4,21.3,25.9,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022235,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0065962,0.3539601,396.7,0.0180192,,0.004227,,22.4,MPG,21.4,21.3,25.9,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022238,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0065962,0.3539601,396.7,0.0180192,,0.004227,,22.4,MPG,21.4,21.3,25.9,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX10022239,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011169,0.0549549,242.2,0.0047877,,0.0009309,,36.7,MPG,,,,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX91001462,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011169,0.0549549,229.9262182,0.0047877,,0.0009309,0.01,38.8,MPG,,,,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ATS,366DAP4702,0,3.6,DGMXV03.6048,Car,301,6,42C,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.27,30.6,1,Not eqipped,DGMX91001474,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0065962,0.3539601,377.5707421,0.0180192,,0.004227,0.01,23.6,MPG,22.5183128,22.4307713,27.3095004,,42.15,0.3019,0.01418,19.85,-0.0728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS,621AFP2008,2,6.2,DGMXV06.2087,Car,580,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.23,27.9,1,Not eqipped,DGMX10020144,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0368135,0.758591,621.5,0.0400594,,0.009808,,14.3,MPG,14.7,13.4,15.8,,44.77,0.845,0.016,25.5,0.1118,0.02459,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS,621AFP2008,2,6.2,DGMXV06.2087,Car,580,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.23,27.9,1,Not eqipped,DGMX10020145,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034951,0.0741824,364.2,0.0054961,,0.0029518,,24.4,MPG,,,,,44.77,0.845,0.016,25.5,0.1118,0.02459,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS WAGON,626ADN0028,0,6.2,DGMXV06.2087,Car,556,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.23,27.9,1,Not eqipped,DGMX10019578,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.085181,0.910439,614.987,0.0279251,,0.0251797,,14.4,MPG,14.6,13.3,17,,46.21,0.8491,0.01602,26.2,0.1384,0.02086,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS WAGON,626ADN0028,0,6.2,DGMXV06.2087,Car,556,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.23,27.9,1,Not eqipped,DGMX10019578,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.085181,0.910439,614.987,0.0279251,,0.0251797,,14.4,MPG,14.6,13.3,17,,46.21,0.8491,0.01602,25.62,0.1375,0.02098,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS WAGON,626ADN0028,0,6.2,DGMXV06.2087,Car,556,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.23,27.9,1,Not eqipped,DGMX10019579,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0209491,0.337493,364.68,0.0614537,,0.0079783,,24.3,MPG,,,,,46.21,0.8491,0.01602,25.62,0.1375,0.02098,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,CTS WAGON,626ADN0028,0,6.2,DGMXV06.2087,Car,556,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.23,27.9,1,Not eqipped,DGMX10019579,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0209491,0.337493,364.68,0.0614537,,0.0079783,,24.3,MPG,,,,,46.21,0.8491,0.01602,26.2,0.1384,0.02086,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020250,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00822,0.31623,317.9,0.00444,,0.00536,,19.8,MPG,,,,,33.61,1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020251,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0404,0.86466,503.6,0.00577,,0.0181,,12.5,MPG,,,,,33.61,1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020252,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.01095,0.22956,291.4,0.00389,,0.00807,,21.6,MPG,,,,,33.61,1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020253,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.01973,0.99027,513.7,0.00664,,0.00881,,17.3,MPG,16.3,16.9,19.2,,33.61,1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020254,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01204,0.5433,312.9,0.00422,,0.00607,,28.4,MPG,,,,,33.61,1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
2WD,62XEKUA007,12,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.42,24.7,1,Not
eqipped,DGMX10020255,Yes,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0152802,0.783896,558.9,0.0958483,,0.0076174,,15.9,MPG,9.7,19.1,,,33.61,
1.0442,0.02089,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 4WD
HYBRID,60C0K41256,2,6,BGMXT06.0371,Truck,332,8,1A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6500,3.08,24.6,1,Not
eqipped,BGMX10009483,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0339692,0.365158,350.466,0.0135889,,0.0090058,,25.2,MPG,19.8,28.9,22.9,3
1.3,51.12,0.1821,0.02981,22.11,0.0607,0.02852,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE 4WD
HYBRID,60C0K41256,2,6,BGMXT06.0371,Truck,332,8,1A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6500,3.08,24.6,1,Not
eqipped,BGMX10009484,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0056135,0.0762396,273.277,0.0037139,,0.0041203,,32.4,MPG,,,,,51.12,0.182
1,0.02981,22.11,0.0607,0.02852,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020256,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00822,0.31623,327.9,0.00444,,0.00536,,19.2,MPG,,,,,37.15,1.0053,0.02517
,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020257,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0404,0.86466,511.8,0.00577,,0.0181,,12.3,MPG,,,,,37.15,1.0053,0.02517,1
1.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020258,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.01095,0.22956,301.2,0.00389,,0.00807,,20.9,MPG,,,,,37.15,1.0053,0.02517
,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not eqipped,DGMX10020259,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01973,0.99027,519.7,0.00664,,0.00881,,17.1,MPG,16.1,16.7,18.9,,37.15,1.0
053,0.02517,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not
eqipped,DGMX10020260,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01204,0.5433,322,0.00422,,0.00607,,27.6,MPG,,,,,37.15,1.0053,0.02517,11.
37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,ESCALADE
AWD,62XEKUA007,13,6.2,DGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,6000,3.42,24.7,1,Not
eqipped,DGMX10020261,Yes,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0152802,0.783896,577.1,0.0958483,,0.0076174,,15.4,MPG,9.6,18.5,,,37.15,
1.0053,0.02517,11.37,0.3354,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,2,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not
eqipped,CGMX10015502,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.02812,0.50005,417.204,0.01349,,0.01253,,14.9,MPG,,,,,36.46,0.2951,0.025
45,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1

to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,2,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015503,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0,0.03267,255.981,0.00345,,0.00315,,24.4,MPG,,,,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,2,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10016000,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0204986,0.591973,448.284,0.0077253,,0.0059168,,19.8,MPG,19.6,18.7,22.2,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,2,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10016001,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0081672,0.258372,272.241,0.0195513,,0.0042669,,32.5,MPG,,,,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,3,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015504,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.01962,0.43843,399.832,0.01831,,0.01389,,15.6,MPG,,,,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,3,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015505,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00546,0.02565,247.172,0.00389,,0.00283,,25.3,MPG,,,,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,3,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015702,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0334851,0.724778,411.814,0.0166545,,0.0097033,,21.5,MPG,20.6,20.9,23.6,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX 2WD,366CNP5602,3,3.6,CGMXJ03.6166,Both,280,6,16,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015703,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0032849,0.0527863,259.343,0.0065167,,0.0023958,,34.2,MPG,,,,,36.46,0.2951,0.02545,9.4,0.1103,0.02513,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,0,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014896,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02442,0.573017,457.828,0.0168493,,0.0072477,,19.3,MPG,19,18.5,21.5,,40.07,0.429,0.02507,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,0,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014897,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0050031,0.0669483,283.732,0.013605,,0.0028264,,31.2,MPG,,,,,40.07,0.429,0.02507,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,0,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014898,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.02116,0.21537,436.126,0.02124,,0.00783,,14.3,MPG,,,,,40.07,0.429,0.02507,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,0,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014899,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00585,0.01931,271.322,0.01424,,0.00271,,23,MPG,,,,,40.07,0.429,0.02507,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,1,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014901,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0041424,0.0412553,279.432,0.0109081,,0.0021212,,31.8,MPG,,,,,40.07,0.2003,0.02524,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,1,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10014903,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0,0.03827,266.555,0.01413,,0.00272,,23.4,MPG,,,,,40.07,0.2003,0.02524,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,1,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10015020,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.02105,0.45036,413.893,0.0178,,0.01292,,15,MPG,,,,,40.07,0.2003,0.02524,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,SRX AWD,366CNP5602,1,3.6,CGMXJ03.6166,Both,280,6,17,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.39,29,1,Not eqipped,CGMX10016100,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0329796,0.812804,436.361,0.0090941,,0.0085838,,20.3,MPG,19.7,19.3,22.9,,40.07,0.2003,0.02524,15.98,0.2003,0.02524,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS,364AG55336,9,3.6,DGMXJ03.6165,Both,255,6,1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.7,1,Not eqipped,DGMX10020420,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02705,0.19273,411.4,0.01266,,0.00784,,21.6,MPG,21,20.2,25.7,,36.17,0.3192,0.01771,11.79,-0.0098,0.01908,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS,364AG55336,9,3.6,DGMXJ03.6165,Both,255,6,1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.77,25.7,1,Not eqipped,DGMX10020421,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00512,0.07628,230.8,0.00169,,0.00297,,38.5,MPG,,,,,36.17,0.3192,0.01771,11.79,-0.0098,0.01908,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS AWD,3663G84749,1,3.6,DGMXJ03.6165,Both,303,6,2,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.77,25.7,1,Not eqipped,DGMX10021137,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0038006,0.1044561,251,0.0025096,,0.0020606,,35.4,MPG,,,,,38.95,0.4099,0.01733,12.77,0.2615,0.01645,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS AWD,3663G84749,1,3.6,DGMXJ03.6165,Both,303,6,2,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.77,25.7,1,Not eqipped,DGMX10021138,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0149851,0.1683643,429.3,0.0064034,,0.0057302,,20.7,MPG,20.2,19.6,23.8,,38.95,0.4099,0.01733,12.77,0.2615,0.01645,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS AWD,3663G84749,1,3.6,DGMXJ03.6165,Both,303,6,2,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.77,25.7,1,Not eqipped,DGMX91001366,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0038006,0.1044561,247.3825622,0.0025096,,0.0020606,0.01,36,MPG,,,,,38.95,0.4099,0.01733,12.77,0.2615,0.01645,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CADILLAC,XTS AWD,3663G84749,1,3.6,DGMXJ03.6165,Both,303,6,2,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.77,25.7,1,Not eqipped,DGMX91001368,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0149851,0.1683643,425.3159995,0.0064034,,0.0057302,0.01,20.9,MPG,20.3945351,19.78234,23.9931017,,38.95,0.4099,0.01733,12.77,0.2615,0.01645,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1EF37,36E0V023,0,3.6,AGMXJ03.6151,Both,304,6,60,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,26.5,1,Not

eqipped,AGMX10002444,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01945,0.12439,379.669,0.00905,,,,23.4,MPG,,,,,9.87,1.1632,0.00684,7,0.94
4,0.0078,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1EF37,36E0V023,0,3.6,AGMXJ03.6151,Both,304,6,60,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,26.5,1,Not
eqipped,AGMX10002445,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00376,0.03547,212.396,0.00365,,,,41.9,MPG,,,,,9.87,1.1632,0.00684,7,0.94
4,0.0078,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1EF37,36XE0P019,0,3.6,AGMXJ03.6151,Both,304,6,61,M,Manual,6,N,R,"
2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,29.5,1,Not
eqipped,AGMX10002513,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02968,0.13092,422.989,0.01158,,,,21,MPG,,,,,9.89,1.5531,0.00248,11.8,1.3
1,0.0032,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1EF37,36XE0P019,0,3.6,AGMXJ03.6151,Both,304,6,61,M,Manual,6,N,R,"
2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,29.5,1,Not
eqipped,AGMX10002626,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0032,0.06436,228.168,0.00279,,,,39,MPG,,,,,9.89,1.5531,0.00248,11.8,1.31
,0.0032,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LH26,241ALP5615,0,2.4,AGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not
eqipped,AGMX10003707,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0166,0.57432,316.042,0.01241,,,,28.1,MPG,,,,,35.18,0.2494,0.02159,13.5,0
.149,0.0208,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,1LH26,241ALP5615,0,2.4,AGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not
eqipped,AGMX10003708,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00275,0.18273,197.151,0.00755,,,,45.2,MPG,,,,,35.18,0.2494,0.02159,13.5,
0.149,0.0208,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,1LH26,241ALP5615,1,2.4,AGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not
eqipped,AGMX10003709,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02121,0.6285,309.317,0.01503,,,,28.7,MPG,,,,,35.18,0.2494,0.02159,13.5,0
.149,0.0208,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,1LH26,241ALP5615,1,2.4,AGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not
eqipped,AGMX10003710,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00338,0.07378,197.294,0.00771,,,,45.1,MPG,,,,,35.18,0.2494,0.02159,13.5,
0.149,0.0208,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not
eqipped,AGMX10020829,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0172,0.48847,348.5,0.00465,,0.00524,,25.5,MPG,24.4,24.4,29.1,,33.98,0.56
27,0.02059,16.9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not
eqipped,AGMX10020830,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.013,0.2938,222.7,0.00088,,0.00236,,39.9,MPG,,,,,33.98,0.5627,0.02059,16.
9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not
eqipped,AGMX10020831,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0172,0.48847,348.5,0.00465,,0.00524,,25.5,MPG,24.4,24.4,29.1,,33.98,0.56
27,0.02059,16.9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not

eqipped,AGMX10020832,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.013,0.2938,222.7,0.00088,,0.00236,,39.9,MPG,,,,,33.98,0.5627,0.02059,16.
9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not
eqipped,AGMX10020833,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02486,0.69817,339.2,0.00298,,0.0066,,26.2,MPG,24.9,25.3,29.6,,33.98,0.56
27,0.02059,16.9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,1LK26,241ALP5687,0,2.4,AGMXJ02.4151,Both,182,4,46A,A,Automatic,6,
Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.53,32,1,Not
eqipped,AGMX10020834,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00982,0.19453,219.4,0.00145,,0.00223,,40.5,MPG,,,,,33.98,0.5627,0.02059,
16.9,0.112,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,43C6C30928,55,4.3,DGMXT04.3186,Truck,195,6,90,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020234,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04284,1.01883,480.4,0.01194,,0.01187,,18.5,MPG,17.4,18,20.4,,22.38,0.729
3,0.03141,9.52,0.6441,0.03217,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,43C6C30928,55,4.3,DGMXT04.3186,Truck,195,6,90,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not
eqipped,DGMX10020235,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00622,0.34261,323.2,0.0079,,0.00411,,27.5,MPG,,,,,22.38,0.7293,0.03141,9
.52,0.6441,0.03217,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020275,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00392,0.28274,327.9,0.00042,,0.00162,,19.2,MPG,,,,,25.48,0.7401,0.03017
,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020275,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00392,0.28274,327.9,0.00042,,0.00162,,19.2,MPG,,,,,25.48,0.7401,0.03017
,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020276,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.03906,0.45215,499.6,0.00284,,0.02293,,12.6,MPG,,,,,25.48,0.7401,0.03017
,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020276,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.03906,0.45215,499.6,0.00284,,0.02293,,12.6,MPG,,,,,25.48,0.7401,0.03017
,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not
eqipped,DGMX10020277,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.015856,0.326994,343.1,0.000412,,0.007153,,25.9,MPG,,,,,25.48,0.7401,0.03
017,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not
eqipped,DGMX10020277,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.015856,0.326994,343.1,0.000412,,0.007153,,25.9,MPG,,,,,25.48,0.7401,0.03

017,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020288,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04798,1.054794,529,0.00573,,0.012958,,16.8,MPG,15.8,16.4,18.4,,25.48,0.7
401,0.03017,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,39,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,3.23,25.7,1,Not eqipped,DGMX10020288,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04798,1.054794,529,0.00573,,0.012958,,16.8,MPG,15.8,16.4,18.4,,25.48,0.7
401,0.03017,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020278,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00392,0.28274,322.8,0.00042,,0.00162,,19.5,MPG,,,,,23.38,0.7328,0.03142
,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020278,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00392,0.28274,322.8,0.00042,,0.00162,,19.5,MPG,,,,,23.38,0.7328,0.03142
,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020279,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.03906,0.45215,480.5,0.00284,,0.02293,,13.1,MPG,,,,,23.38,0.7328,0.03142
,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020279,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.03906,0.45215,480.5,0.00284,,0.02293,,13.1,MPG,,,,,23.38,0.7328,0.03142
,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not
eqipped,DGMX10020280,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.015856,0.326994,336.6,0.000412,,0.007153,,26.4,MPG,,,,,23.38,0.7328,0.03
142,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not
eqipped,DGMX10020280,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.015856,0.326994,336.6,0.000412,,0.007153,,26.4,MPG,,,,,23.38,0.7328,0.03
142,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020281,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04798,1.054794,507.8,0.00573,,0.012958,,17.5,MPG,16.4,17,19.1,,23.38,0.7
328,0.03142,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C15 SILVERADO
2WD,48XECPA039,40,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,DGMX10020281,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04798,1.054794,507.8,0.00573,,0.012958,,17.5,MPG,16.4,17,19.1,,23.38,0.7

328,0.03142,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SILVERADO CLASSIC
2WD,43C6C30928,0,4.3,7GMXT04.3186,Truck,195,,50,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,7GMX01069200,No,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04284,1.01883,486.34,0.01194,,0.01187,,18.3,MPG,17.2,17.8,20.1,,20.95,1.
151,0.02864,9.52,0.6441,0.03217,,,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SILVERADO CLASSIC
2WD,43C6C30928,0,4.3,7GMXT04.3186,Truck,195,,50,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.23,25.7,1,Not eqipped,7GMX01069201,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00622,0.34261,333.555,0.0079,,0.00411,,26.6,MPG,,,,,20.95,1.151,0.02864,
9.52,0.6441,0.03217,,,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SUBURBAN
2WD,62XEKSB359,1,6.2,AGMXT06.2375,Truck,403,8,2B,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.42,24.9,1,Not eqipped,AGMX10009682,No,31,Federal fuel 3-day
exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0655586,2.32701,587.521,0.0166627,,0.0152205,,15,MPG,14.7,14.2,17,,33.68
,1.0452,0.02342,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SUBURBAN
2WD,62XEKSB359,1,6.2,AGMXT06.2375,Truck,403,8,2B,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.42,24.9,1,Not eqipped,AGMX10009683,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0232343,1.219,354.292,0.0134859,,0.0080155,,24.9,MPG,,,,,33.68,1.0452,0.
02342,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SUBURBAN
2WD,62XEKSB359,1,6.2,AGMXT06.2375,Truck,403,8,2B,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.42,24.9,1,Not eqipped,AGMX10009684,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.020687,1.07282,573.583,0.0727004,,0.0089505,,15.4,MPG,9.3,18.9,,,33.68,
1.0452,0.02342,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SUBURBAN
2WD,62XEKSB359,1,6.2,AGMXT06.2375,Truck,403,8,2B,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.42,24.9,1,Not eqipped,AGMX10009726,No,31,Federal fuel 3-day
exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.05132,1.58731,568.78,0.00981,,0.02528,,10.9,MPG,10.9,10.3,12.5,,33.68,1
.0452,0.02342,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 SUBURBAN
2WD,62XEKSB359,1,6.2,AGMXT06.2375,Truck,403,8,2B,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.42,24.9,1,Not eqipped,AGMX10009727,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.00551,0.345777,335.934,0.00073,,0.0036,,18.6,MPG,,,,,33.68,1.0452,0.023
42,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 TAHOE 2WD
HYBRID,60C0K41256,0,6,BGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,6000,3.08,25,1,Not
eqipped,BGMX10009364,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0159604,0.0174896,395.916,0.0078628,,0.0063848,,22.4,MPG,,,,,50.05,0.10
16,0.02949,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 TAHOE 2WD
HYBRID,60C0K41256,0,6,BGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,6000,3.08,25,1,Not
eqipped,BGMX10009365,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0355418,0.391369,344.14,0.0102097,,0.0092,,25.8,MPG,19.8,32.3,22.9,31.2,
50.05,0.1016,0.02949,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 TAHOE 2WD
HYBRID,60C0K41256,0,6,BGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,6000,3.08,25,1,Not
eqipped,BGMX10009366,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0043799,0.222366,271.3,0.0040283,,0.0037927,,32.8,MPG,,,,,50.05,0.1016,0
.02949,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 TAHOE 2WD
HYBRID,60C0K41256,0,6,BGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,6000,3.08,25,1,Not
eqipped,BGMX10009367,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0217067,0.241196,416.701,0.0107251,,0.0082422,,21.2,MPG,14.5,24.4,,,50.
05,0.1016,0.02949,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C1500 TAHOE 2WD
HYBRID,60C0K41256,0,6,BGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,6000,3.08,25,1,Not
eqipped,BGMX10009368,No,11,Cold CO,24,Cold CO Regular
(CERT),FTP,0.311568,2.92657,473.719,0.0129113,,0.0313423,,,MPG,16.4,18,21.1,,55.06,0.11
18,0.03244,26.23,-0.2267,0.0344,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C2500 SUBURBAN
2WD,60XECSB655,0,6,BGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.73,28.4,1,Not eqipped,BGMX10008454,No,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0848789,1.73506,695.174,0.0251621,,0.0317123,,12.7,MPG,12.7,12,14.4,,48.
31,1.0713,0.02388,22.57,0.5644,0.0261,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,C2500 SUBURBAN
2WD,60XECSB655,0,6,BGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.73,28.4,1,Not eqipped,BGMX10008455,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0274817,0.590972,408.091,0.0036639,,0.0129454,,21.7,MPG,,,,,48.31,1.0713
,0.02388,22.57,0.5644,0.0261,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,36E0V023,6,3.6,DGMXJ03.6165,Both,304,6,60,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,26.7,1,Not
eqipped,DGMX10020584,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.01945,0.12439,400.3,0.00905,,0.00468,,22.2,MPG,21.9,20.7,25.9,,40.34,0.4
345,0.01712,-7.09,0.944,0.00784,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,36E0V023,6,3.6,DGMXJ03.6165,Both,304,6,60,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.27,26.7,1,Not
eqipped,DGMX10020585,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00376,0.03547,237.6,0.00365,,0.00139,,37.4,MPG,,,,,40.34,0.4345,0.01712,
-7.09,0.944,0.00784,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,621AEP2116,11,6.2,DGMXV06.2089,Car,420,8,5,M,Manual,6,N,R,
"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.45,23.8,1,Not
eqipped,DGMX10020329,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04987,0.95193,448.8,0.009,,0.01401,,19.8,MPG,18.6,18.7,23.5,,27.5,1.0634
,0.00826,5.15,0.768,0.00965,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,621AEP2116,11,6.2,DGMXV06.2089,Car,420,8,5,M,Manual,6,N,R,
"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.45,23.8,1,Not
eqipped,DGMX10020330,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00283,0.0797,263.7,0.00122,,0.00208,,33.7,MPG,,,,,27.5,1.0634,0.00826,5.
15,0.768,0.00965,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,621AEP2116,12,6.2,DGMXV06.2089,Car,420,8,5,M,Manual,6,N,R,
"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.45,23.8,1,Not
eqipped,DGMX10020331,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04987,0.95193,472.7,0.009,,0.01401,,18.8,MPG,17.7,17.8,22.3,,29.56,1.070
2,0.01061,5.15,0.768,0.00965,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,621AEP2116,12,6.2,DGMXV06.2089,Car,420,8,5,M,Manual,6,N,R,
"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.45,23.8,1,Not
eqipped,DGMX10020332,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00283,0.0797,279.5,0.00122,,0.00208,,31.8,MPG,,,,,29.56,1.0702,0.01061,5
.15,0.768,0.00965,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,6269DP4410,7,6.2,DGMXV07.0085,Car,550,8,2,M,Manual,6,N,R,"
2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,28.7,1,Not
eqipped,DGMX10020146,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06137,0.74302,507.8,0.03178,,0.01797,,17.5,MPG,16.5,16.8,20.1,,41.03,0.5
652,0.0194,26.34,0.1446,0.02045,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,6269DP4410,7,6.2,DGMXV07.0085,Car,550,8,2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,28.7,1,Not eqipped,DGMX10020147,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03202,0.50605,339.2,0.01936,,0.01632,,26.2,MPG,,,,,41.03,0.5652,0.0194,26.34,0.1446,0.02045,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,628DEN2313,0,6.2,DGMXV06.2089,Car,400,8,4,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,26.5,1,Not eqipped,DGMX10019529,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0578357,1.05105,499.224,0.0203073,,0.0145596,,17.7,MPG,17,16.9,20.1,,39.61,0.8408,0.0143,15.81,0.3239,0.01771,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,628DEN2313,0,6.2,DGMXV06.2089,Car,400,8,4,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,26.5,1,Not eqipped,DGMX10019530,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0078005,0.0990138,295.091,0.0167627,,0.0057555,,30.1,MPG,,,,,39.61,0.8408,0.0143,15.81,0.3239,0.01771,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,62XE0I071,12,6.2,DGMXV06.2089,Car,420,8,4,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.27,26.5,1,Not eqipped,DGMX10020298,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.08446,1.42214,448.8,0.01968,,0.01858,,19.8,MPG,19.2,18.5,23.2,,37.53,0.8339,0.01049,20.79,0.4174,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAMARO,62XE0I071,12,6.2,DGMXV06.2089,Car,420,8,4,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.27,26.5,1,Not eqipped,DGMX10020299,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01265,0.277,253.2,0.01584,,0.00733,,35.1,MPG,,,,,37.53,0.8339,0.01049,20.79,0.4174,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,368CEN4029,0,3.6,CGMXJ03.6166,Both,280,6,14,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.92,25,1,Not eqipped,CGMX10016809,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0209926,0.183796,393.576,0.0084257,,0.0055216,,22.5,MPG,22,21.4,25.5,,34.7,0.8484,0.01504,9.5,0.5817,0.01638,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,368CEN4029,0,3.6,CGMXJ03.6166,Both,280,6,14,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.92,25,1,Not eqipped,CGMX10016810,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0025193,0.0264451,247.409,0.0068083,,0.0013078,,35.9,MPG,,,,,34.7,0.8484,0.01504,9.5,0.5817,0.01638,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,368CEN4029,0,3.6,CGMXJ03.6166,Both,280,6,14,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.92,25,1,Not eqipped,CGMX10016812,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.02184,0.34933,391.223,0.01694,,0.0094,,15.9,MPG,,,,,34.7,0.8484,0.01504,9.5,0.5817,0.01638,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,368CEN4029,0,3.6,CGMXJ03.6166,Both,280,6,14,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.92,25,1,Not eqipped,CGMX10016813,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00031,0.01602,242.376,0.01089,,0.00118,,25.8,MPG,,,,,34.7,0.8484,0.01504,9.5,0.5817,0.01638,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEM4804,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10011659,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0430751,0.876397,529.245,0.015015,,0.013252,,16.7,MPG,16.5,15.4,19,,48.712,1.05281,0.011459,23.78,0.4971,0.01525,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEM4804,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10011660,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0153225,0.672344,313.208,0.0216502,,0.0107728,,28.2,MPG,,,,,48.712,1.05281,0.011459,23.78,0.4971,0.01525,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEM4804,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10011661,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0376628,1.48369,446.685,0.0545405,,0.0188028,,19.7,MPG,12.4,23.2,,,48.712,1.05281,0.011459,23.78,0.4971,0.01525,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEM4804,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10011664,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.04346,0.585212,498.644,0.0217416,,0.0260706,,12.5,MPG,,,,,48.712,1.05281,0.011459,23.78,0.4971,0.01525,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEM4804,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10011665,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.01352,0.29983,292.667,0.0195,,0.01071,,21.4,MPG,,,,,48.712,1.05281,0.011459,23.78,0.4971,0.01525,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEN4995,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10012356,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.026298,0.675931,491.027,0.0112751,,0.0088492,,18.1,MPG,18,17,20.7,,35.86,0.8526,0.0149,11.5,0.4403,0.01702,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEN4995,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10012357,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0067823,0.306934,279.497,0.0159945,,0.0080691,,31.8,MPG,,,,,35.86,0.8526,0.0149,11.5,0.4403,0.01702,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEN4995,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10012358,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0241362,1.06004,416.729,0.0262502,,0.0142883,,21.2,MPG,13,25.9,,,35.86,0.8526,0.0149,11.5,0.4403,0.01702,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEN4995,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10012479,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0239952,0.309,468.867,0.0176907,,0.0127108,,13.4,MPG,,,,,35.86,0.8526,0.0149,11.5,0.4403,0.01702,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPRICE PPV,608BEN4995,0,6,BGMXV06.0082,Car,356,8,1,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.92,24.9,1,Not eqipped,BGMX10012480,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0060815,0.0750345,266.887,0.0244256,,0.0032865,,23.5,MPG,,,,,35.86,0.8526,0.0149,11.5,0.4403,0.01702,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPTIVA FWD,30TBLP4011,10,3,DGMXJ03.6166,Both,264,6,24,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.23,29.3,1,Not eqipped,DGMX10021362,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00332,0.05804,267.714,0.0027336,,0.00205,,23.4,MPG,,,,,25.78,0.2391,0.02636,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CAPTIVA FWD,30TBLP4011,10,3,DGMXJ03.6166,Both,264,6,24,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.23,29.3,1,Not eqipped,DGMX10021363,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00332,0.05804,267.714,0.0027336,,0.00205,,23.4,MPG,,,,,25.78,0.2391,0.02636,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,0,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not eqipped,AGMX10004807,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03145,0.52635,467.011,0.00711,,,,13.4,MPG,,,,,46.99,0.5973,0.02663,16.1,0.361,0.0275,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,0,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004808,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.007,0.07176,284.714,0,,,,21.9,MPG,,,,,46.99,0.5973,0.02663,16.1,0.361,0
.0275,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,0,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005086,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03344,0.82838,490.824,0.00568,,,,18.1,MPG,,,,,46.99,0.5973,0.02663,16.1,
0.361,0.0275,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,0,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005087,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00883,0.31654,306.927,0.00713,,,,29,MPG,,,,,46.99,0.5973,0.02663,16.1,0.
361,0.0275,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004778,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00415,0.06145,280.961,0.00054,,,,22.2,MPG,,,,,35.3,1.0142,0.02084,8.6,0
.713,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004778,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00415,0.06145,280.961,0.00054,,,,22.2,MPG,,,,,35.3,1.0142,0.02084,8.6,0
.713,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004778,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00415,0.06145,280.961,0.00054,,,,22.2,MPG,,,,,35.3,1.0142,0.02084,8.6,0
.713,0.022,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004779,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.031,0.37654,464.185,0.00681,,,,13.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004779,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.031,0.37654,464.185,0.00681,,,,13.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10004779,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.031,0.37654,464.185,0.00681,,,,13.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005088,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03437,0.64917,487.039,0.00716,,,,18.3,MPG,,,,,35.3,1.0142,0.02084,8.6,0.
713,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005088,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03437,0.64917,487.039,0.00716,,,,18.3,MPG,,,,,35.3,1.0142,0.02084,8.6,0.
713,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,

6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005088,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03437,0.64917,487.039,0.00716,,,,18.3,MPG,,,,,35.3,1.0142,0.02084,8.6,0.
713,0.022,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005089,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0086,0.34044,302.701,0.01158,,,,29.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005089,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0086,0.34044,302.701,0.01158,,,,29.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10703,53XECPA011,1,5.3,AGMXT05.3373,Truck,320,8,21,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.42,25,1,Not
eqipped,AGMX10005089,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0086,0.34044,302.701,0.01158,,,,29.4,MPG,,,,,35.3,1.0142,0.02084,8.6,0.7
13,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10706,53XECUA000,0,5.3,AGMXT05.3373,Truck,315,8,26,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.08,23.4,1,Not
eqipped,AGMX10004729,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.03489,0.54071,449.772,0.01874,,,,13.9,MPG,,,,,30.32,0.9619,0.02432,8.4,
0.589,0.0263,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10706,53XECUA000,0,5.3,AGMXT05.3373,Truck,315,8,26,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.08,23.4,1,Not
eqipped,AGMX10004730,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00519,0.08734,277.51,0.00157,,,,22.5,MPG,,,,,30.32,0.9619,0.02432,8.4,0
.589,0.0263,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10706,53XECUA000,0,5.3,AGMXT05.3373,Truck,315,8,26,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.08,23.4,1,Not
eqipped,AGMX10004816,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02799,0.65918,465.322,0.00287,,,,19.1,MPG,,,,,30.32,0.9619,0.02432,8.4,0
.589,0.0263,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10706,53XECUA000,0,5.3,AGMXT05.3373,Truck,315,8,26,A,Automatic,
6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.08,23.4,1,Not
eqipped,AGMX10004817,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01402,0.18559,293.193,0.0059,,,,30.4,MPG,,,,,30.32,0.9619,0.02432,8.4,0.
589,0.0263,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,43XECP9030,0,4.3,AGMXT04.3186,Truck,195,6,90,A,Automatic,
4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.73,28.6,1,Not
eqipped,AGMX01083647,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03183,0.54734,551.472,0.00797,,0.00664,,16.1,MPG,14.5,16.3,17.1,,39.15,0
.8238,0.03916,17.6,0.51,0.0377,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,43XECP9030,0,4.3,AGMXT04.3186,Truck,195,6,90,A,Automatic,
4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.73,28.6,1,Not
eqipped,AGMX01083657,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01286,0.07216,403.542,0.00186,,0.00244,,22,MPG,,,,,39.15,0.8238,0.03916,
17.6,0.51,0.0377,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,48XECPA039,1,4.8,AGMXT05.3373,Truck,295,8,2,A,Automatic,4
,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,26,1,Not
eqipped,AGMX10004607,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01814,0.41127,371.643,0.00219,,,,23.9,MPG,,,,,31.78,0.8342,0.03469,11.4,
0.554,0.0353,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,48XECPA039,1,4.8,AGMXT05.3373,Truck,295,8,2,A,Automatic,4
,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,26,1,Not
eqipped,AGMX10005191,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03779,0.84744,555.803,0.00411,,,,16,MPG,,,,,31.78,0.8342,0.03469,11.4,0.

554,0.0353,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,48XECPA039,1,4.8,AGMXT05.3373,Truck,295,8,2,A,Automatic,4
,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,26,1,Not
eqipped,AGMX10005352,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.04291,0.65354,519.746,0.00955,,,,12,MPG,,,,,31.78,0.8342,0.03469,11.4,0
.554,0.0353,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CC10903,48XECPA039,1,4.8,AGMXT05.3373,Truck,295,8,2,A,Automatic,4
,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.42,26,1,Not
eqipped,AGMX10005353,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00457,0.27628,350.301,0.0012,,,,17.8,MPG,,,,,31.78,0.8342,0.03469,11.4,
0.554,0.0353,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CG13406,53XEGP9036,1,5.3,AGMXT05.3373,Truck,301,8,40,A,Automatic,
4,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.73,29.6,1,Not
eqipped,AGMX10003859,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00666,0.1914,388.161,0.00468,,,,22.9,MPG,,,,,40.75,1.0282,0.03137,16,0.4
72,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CG13406,53XEGP9036,1,5.3,AGMXT05.3373,Truck,301,8,40,A,Automatic,
4,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.73,29.6,1,Not
eqipped,AGMX10003861,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00802,0.11374,374.611,0.00721,,,,16.7,MPG,,,,,40.75,1.0282,0.03137,16,0
.472,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CG13406,53XEGP9036,1,5.3,AGMXT05.3373,Truck,301,8,40,A,Automatic,
4,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.73,29.6,1,Not
eqipped,AGMX10004080,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.05072,0.81616,551.566,0.0122,,,,11.3,MPG,,,,,40.75,1.0282,0.03137,16,0.
472,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CG13406,53XEGP9036,1,5.3,AGMXT05.3373,Truck,301,8,40,A,Automatic,
4,Y,A,All Wheel Drive,2,Top gear ration < 1,6000,3.73,29.6,1,Not
eqipped,AGMX10004081,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04543,1.14481,560.769,0.00514,,,,15.8,MPG,,,,,40.75,1.0282,0.03137,16,0.
472,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00043,0,6.2,8GMXV06.2081,Car,420,,2A,M,Manual,6,N,R
,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.42,22.1,1,Not
eqipped,8GMX01076670,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.07473,1.2601,439.324,0.01861,,0.02133,,20.2,MPG,19.8,18.7,24.1,,31.31,0.
462,0.01282,12.82,0.3271,0.01288,,,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00043,0,6.2,8GMXV06.2081,Car,420,,2A,M,Manual,6,N,R
,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.42,22.1,1,Not
eqipped,8GMX01076671,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02825,0.50455,247.555,0.00992,,0.00696,,35.8,MPG,,,,,31.31,0.462,0.01282
,12.82,0.3271,0.01288,,,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00050,11,6.2,AGMXV06.2086,Car,420,8,1B,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,2.56,22.1,1,Not
eqipped,AGMX10014224,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06867,1.13745,488.007,0.01126,,0.01784,,18.2,MPG,19.1,16.4,21.8,,29.34,0
.7355,0.01083,9.88,0.505,0.01151,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00050,11,6.2,AGMXV06.2086,Car,420,8,1B,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,2.56,22.1,1,Not
eqipped,AGMX10014225,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00812,0.19745,259.905,0.00219,,0.00441,,34.2,MPG,,,,,29.34,0.7355,0.0108
3,9.88,0.505,0.01151,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to
n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00050,12,6.2,AGMXV06.2086,Car,420,8,1B,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,2.56,22.1,1,Not
eqipped,AGMX10014226,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.06523,1.09358,483.791,0.01364,,0.01796,,18.3,MPG,19.2,16.6,22,,29.34,0.7

355,0.01083,9.88,0.505,0.01151,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,CORVETTE,6216Y00050,12,6.2,AGMXV06.2086,Car,420,8,1B,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,2.56,22.1,1,Not eqipped,AGMX10014227,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01183,0.19487,257.562,0.00428,,0.00532,,34.5,MPG,,,,,29.34,0.7355,0.01083,9.88,0.505,0.01151,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,CORVETTE,621CYN4002,0,6.2,CGMXV07.0085,Car,638,8,2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.42,22.3,1,Not eqipped,CGMX10014865,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0471331,1.18421,511.386,0.007953,,0.012443,,17.3,MPG,16.5,16.3,20.2,,35.12,0.4778,0.0167,16.28,0.1605,0.01822,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,621CYN4002,0,6.2,CGMXV07.0085,Car,638,8,2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.42,22.3,1,Not eqipped,CGMX10014866,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0152742,0.198576,297.647,0.00625,,0.0052245,,29.7,MPG,,,,,35.12,0.4778,0.0167,16.28,0.1605,0.01822,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,7016YN1020,6,7,DGMXV07.0085,Car,505,8,5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.42,21.9,1,Not eqipped,DGMX10020300,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.08789,1.38283,485.6,0.02316,,0.0225,,18.3,MPG,17.7,16.9,22.4,,32.53,0.4629,0.01597,11.97,0.3561,0.01506,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CORVETTE,7016YN1020,6,7,DGMXV07.0085,Car,505,8,5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.42,21.9,1,Not eqipped,DGMX10020301,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02211,0.38302,265.3,0.02857,,0.00848,,33.5,MPG,,,,,32.53,0.4629,0.01597,11.97,0.3561,0.01506,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,141BPP4216,2,1.4,DGMXV01.8011,Car,138,4,4,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.83,37.6,1,Not eqipped,DGMX10020589,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0130223,0.138725,263.7,0.0048001,,0.003487,,33.7,MPG,33,31.9,37.8,,25.43,0.109,0.01795,9.91,-0.1933,0.01759,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,141BPP4216,2,1.4,DGMXV01.8011,Car,138,4,4,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.83,37.6,1,Not eqipped,DGMX10020590,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0111235,0.211326,166.1,0.0025302,,0.002906,,53.5,MPG,,,,,25.43,0.109,0.01795,9.91,-0.1933,0.01759,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,14X70057EX,13,1.4,DGMXV01.8011,Car,140,4,3,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.53,35.1,1,Not eqipped,DGMX10020595,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0163552,0.133294,266.9,0.015717,,0.0075078,,33.3,MPG,31.3,32,37.6,,27.09,0.1467,0.01875,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,14X70057EX,13,1.4,DGMXV01.8011,Car,140,4,3,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.53,35.1,1,Not eqipped,DGMX10020596,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0061738,0.311303,166.4,0.0019904,,0.0040733,,53.4,MPG,,,,,27.09,0.1467,0.01875,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,14X70057EX,13,1.4,DGMXV01.8011,Car,140,4,3,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.53,35.1,1,Not eqipped,DGMX10020597,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0157478,0.193884,266.9,0.0183454,,0.0085182,,33.3,MPG,31.5,31.7,38.2,,27.09,0.1467,0.01875,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,14X70057EX,13,1.4,DGMXV01.8011,Car,140,4,3,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.53,35.1,1,Not eqipped,DGMX10020598,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0078908,0.818007,166.1,0.0045888,,0.0056555,,53.5,MPG,,,,,27.09,0.1467,0.01875,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,18X70058EX,0,1.8,BGMXV01.8011,Car,140,4,1,A,Automatic,6,Y,F
,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.87,38.5,1,Not
eqipped,BGMX91000642,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0170657,1.06412,190.7157513,0.0018021,,0.0083941,,46.1,MPG,,,,,27.09,0.1
467,0.01891,5.63,0.0639,0.01562,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,18X70058EX,0,1.8,BGMXV01.8011,Car,140,4,1,A,Automatic,6,Y,F
,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.87,38.5,1,Not
eqipped,BGMX91000643,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0239518,0.4836666,329.7310536,0.0038015,,0.0052335,,26.8,MPG,26.4346881,
24.9989581,31.7444964,,27.09,0.1467,0.01891,5.63,0.0639,0.01562,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,18X70079EX,0,1.8,CGMXV01.8011,Car,138,4,2,M,Manual,6,N,F,"2
-Wheel Drive, Front",2,Top gear ration < 1,3375,3.94,38.7,5,"Equipped, shifted by
survey schedule",CGMX10015347,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034638,0.29045,171.521,0.0020244,,0.0026467,,51.4,MPG,,,,,25.25,0.1081,
0.01811,13.83,-0.1372,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE,18X70079EX,0,1.8,CGMXV01.8011,Car,138,4,2,M,Manual,6,N,F,"2
-Wheel Drive, Front",2,Top gear ration < 1,3375,3.94,38.7,5,"Equipped, shifted by
survey schedule",CGMX10015348,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0186588,0.279803,277.32,0.0099017,,0.0040378,,32,MPG,31.5,30,36.8,,25.25
,0.1081,0.01811,13.83,-0.1372,0.01888,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,141BPN4018,0,1.4,BGMXV01.8011,Car,140,4,4F,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,3.83,30.8,2,"Equipped, not shifted by
SIL",BGMX10011627,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0289223,0.639686,223.739,0.0178962,,0.0137253,,39.5,MPG,38.3,38,43.5,,23
.96,0.1143,0.01606,9.69,-0.1618,0.01765,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,141BPN4018,0,1.4,BGMXV01.8011,Car,140,4,4F,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,3.83,30.8,2,"Equipped, not shifted by
SIL",BGMX10011628,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.007296,0.421704,138.956,0.0065306,,0.0048387,,63.6,MPG,,,,,23.96,0.1143,
0.01606,9.69,-0.1618,0.01765,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,14X70057EX,12,1.4,DGMXV01.8011,Car,140,4,5,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.53,34.9,1,Not eqipped,DGMX10020591,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0163552,0.133294,263.7,0.015717,,0.0075078,,33.7,MPG,31.7,32.4,38.1,,26.
23,0.1556,0.01686,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,14X70057EX,12,1.4,DGMXV01.8011,Car,140,4,5,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.53,34.9,1,Not
eqipped,DGMX10020592,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0061738,0.311303,161.9,0.0019904,,0.0040733,,54.9,MPG,,,,,26.23,0.1556,0
.01686,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,14X70057EX,12,1.4,DGMXV01.8011,Car,140,4,5,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.53,34.9,1,Not eqipped,DGMX10020593,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0157478,0.193884,263.7,0.0183454,,0.0085182,,33.7,MPG,31.9,32.1,38.7,,26
.23,0.1556,0.01686,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,CRUZE
ECO,14X70057EX,12,1.4,DGMXV01.8011,Car,140,4,5,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.53,34.9,1,Not
eqipped,DGMX10020594,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0078908,0.818007,161.6,0.0045888,,0.0056555,,55,MPG,,,,,26.23,0.1556,0.0
1686,1.9,0.2828,0.01108,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,241CLP5219,0,2.4,CGMXJ02.4151,Both,182,4,50,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,3.53,32,1,Not eqipped,CGMX10015613,No,31,Federal fuel 3-day

exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.01453,0.31763,330.734,0.0068,,0.0067,,18.8,MPG,,,,,34.23,0.5726,0.02036
,14.82,0.3231,0.01985,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,241CLP5219,0,2.4,CGMXJ02.4151,Both,182,4,50,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,3.53,32,1,Not eqipped,CGMX10015614,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.00418,0.17203,216.869,0.00303,,0.00212,,28.7,MPG,,,,,34.23,0.5726,0.020
36,14.82,0.3231,0.01985,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,241CLP5219,1,2.4,CGMXJ02.4151,Both,182,4,42,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,3.53,32,1,Not eqipped,CGMX10015615,No,31,Federal fuel 3-day
exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.01478,0.2675,350.711,0.00393,,0.00528,,17.8,MPG,,,,,34.23,0.5726,0.0203
6,14.82,0.3231,0.01985,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,241CLP5219,1,2.4,CGMXJ02.4151,Both,182,4,42,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4250,3.53,32,1,Not eqipped,CGMX10015616,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.00461,0.22572,220.825,0.002244,,0.00221,,28.2,MPG,,,,,34.23,0.5726,0.02
036,14.82,0.3231,0.01985,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,2.77,25.3,1,Not eqipped,BGMX10021346,Yes,31,Federal fuel 3-day
exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0289141,0.442851,446.6,0.0026073,,0.0068716,,19.9,MPG,19.7,18.7,22.4,,38
.16,0.3969,0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,2.77,25.3,1,Not eqipped,BGMX10021347,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028628,0.0475736,282.1,0.0027242,,0.0013425,,31.5,MPG,,,,,38.16,0.3969,
0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,2.77,25.3,1,Not eqipped,BGMX10021348,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0289141,0.442851,429.3,0.0026073,,0.0068716,,20.7,MPG,20.5,19.5,23.3,,38
.16,0.3969,0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4500,2.77,25.3,1,Not
eqipped,BGMX10021349,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028628,0.0475736,267.7,0.0027242,,0.0013425,,33.2,MPG,,,,,38.16,0.3969,
0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,2.77,25.3,1,Not eqipped,BGMX10021350,Yes,31,Federal fuel 3-day
exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0289141,0.442851,446.6,0.0026073,,0.0068716,,19.9,MPG,19.7,18.7,22.4,,38
.16,0.3969,0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,30TBLP4011,0,3,BGMXT03.0159,Truck,264,6,78A,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,2.77,25.3,1,Not eqipped,BGMX10021351,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028628,0.0475736,282.1,0.0027242,,0.0013425,,31.5,MPG,,,,,38.16,0.3969,
0.02502,21.11,0.0754,0.02643,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top
gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX10021158,Yes,31,Federal fuel 3-day
exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.02566,0.508523,431.2,0.0057551,,0.01389,,14.6,MPG,,,,,35.33,0.3637,0.02

55,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX10021159,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.01076,0.0879758,264.5,0.002965,,0.00419,,23.8,MPG,,,,,35.33,0.3637,0.02
55,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX10021160,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034219,0.0873996,270.1,0.0048251,,0.0026338,,32.9,MPG,,,,,35.33,0.3637,
0.0255,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX10021162,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0303252,0.7541638,448.8,0.008078,,0.009459,,19.8,MPG,18.8,18.9,22.7,,35.
33,0.3637,0.0255,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX91001382,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034219,0.0873996,270.1017655,0.0048251,,0.0026338,0.01,33,MPG,,,,,35.33
,0.3637,0.0255,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
AWD,36TDLP5710,0,3.6,DGMXJ03.6166,Both,308,6,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.39,30.4,1,Not eqipped,DGMX91001383,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0303252,0.7541638,448.6408471,0.008078,,0.009459,0.01,19.8,MPG,18.819941
3,18.887841,22.7318966,,35.33,0.3637,0.0255,15.27,0.2685,0.02355,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,EQUINOX
FWD,241ALP5615,20,2.4,DGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,DGMX10020823,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.02121,0.6285,309.317,0.01503,,0.0079,,28.7,MPG,27.3,27.5,32.4,,35.61,0.2
595,0.02138,13.53,0.1493,0.02085,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX
FWD,241ALP5615,20,2.4,DGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,DGMX10020824,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00338,0.07378,197.294,0.00771,,0.00222,,45.1,MPG,,,,,35.61,0.2595,0.0213
8,13.53,0.1493,0.02085,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX
FWD,241ALP5615,21,2.4,DGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,DGMX10020825,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0166,0.57432,316.042,0.01241,,0.00746,,28.1,MPG,27.1,26.7,32.2,,35.61,0.
2595,0.02138,13.53,0.1493,0.02085,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX
FWD,241ALP5615,21,2.4,DGMXJ02.4151,Both,182,4,44,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,DGMX10020826,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00275,0.18273,197.151,0.00755,,0.00211,,45.2,MPG,,,,,35.61,0.2595,0.0213
8,13.53,0.1493,0.02085,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX
FWD,241CLN4446,0,2.4,CGMXJ02.4151,Both,182,4,44A,A,Automatic,6,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,CGMX10015563,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.01057,0.288,313.887,0.01141,,0.00762,,19.8,MPG,,,,,35.61,0.2595,0.02138,15.84,0.0426,0.02134,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX FWD,241CLN4446,0,2.4,CGMXJ02.4151,Both,182,4,44A,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,CGMX10015564,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00469,0.06446,202.82,0.00456,,0.00235,,30.7,MPG,,,,,35.61,0.2595,0.02138,15.84,0.0426,0.02134,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX FWD,241CLN4446,1,2.4,CGMXJ02.4151,Both,182,4,44A,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,CGMX10015561,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.00812,0.20314,333.935,0.00821,,0.00651,,18.7,MPG,,,,,35.61,0.2595,0.02138,15.84,0.0426,0.02134,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,EQUINOX FWD,241CLN4446,1,2.4,CGMXJ02.4151,Both,182,4,44A,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.23,29.3,1,Not eqipped,CGMX10015562,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00493,0.11816,203.609,0.00425,,0.00214,,30.6,MPG,,,,,35.61,0.2595,0.02138,15.84,0.0426,0.02134,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD CARGO,53XEGP9036,34,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,27.2,1,Not eqipped,DGMX10020271,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.06005,1.43232,552,0.00749,,0.01571,,16.1,MPG,14.7,15.8,17.8,,26.83,0.9373,0.03156,3.57,0.4133,0.0339,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD CARGO,53XEGP9036,34,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,27.2,1,Not eqipped,DGMX10020272,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00948,0.1918,365.7,0.00999,,0.0051,,24.3,MPG,,,,,26.83,0.9373,0.03156,3.57,0.4133,0.0339,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD CARGO,53XEGP9036,34,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,27.2,1,Not eqipped,DGMX10020273,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.04571,0.72141,516,0.00793,,0.02455,,12.2,MPG,,,,,26.83,0.9373,0.03156,3.57,0.4133,0.0339,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD CARGO,53XEGP9036,34,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,27.2,1,Not eqipped,DGMX10020274,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00396,0.13283,345.9,0.00304,,0.00254,,18.2,MPG,,,,,26.83,0.9373,0.03156,3.57,0.4133,0.0339,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD PASS,53XEGP9036,33,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.73,29.6,1,Not eqipped,DGMX10020267,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00675,0.10209,357.907,0.00532,,0.00435,,17.4,MPG,,,,,30.27,0.9471,0.03159,8.68,0.3103,0.03546,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD PASS,53XEGP9036,33,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,3.73,29.6,1,Not eqipped,DGMX10020268,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded

Gasoline),FTP,0.05446,0.72952,518.239,0.00564,,0.02896,,12,MPG,,,,,30.27,0.9471,0.03159
,8.68,0.3103,0.03546,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD
PASS,53XEGP9036,33,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.73,29.6,1,Not eqipped,DGMX10020269,No,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.061073,0.520903,568.0722,0.012216,,0.014714,,15.6,MPG,14.4,15.5,16.9,,30
.27,0.9471,0.03159,8.68,0.3103,0.03546,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G1500 EXPRESS 2WD
PASS,53XEGP9036,33,5.3,DGMXT05.3381,Truck,301,8,90,A,Automatic,4,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,3.73,29.6,1,Not eqipped,DGMX10020270,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.010462,0.259305,381.2073,0.012539,,0.005839,,23.3,MPG,,,,,30.27,0.9471,0
.03159,8.68,0.3103,0.03546,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS 2WD PASS
MDPV,48XEGCA048,0,4.8,BGMXT06.0398,Truck,280,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,26,1,Not eqipped,BGMX10009391,No,31,Federal fuel
3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0840353,1.37525,645.137,0.0350426,,0.0297785,,13.7,MPG,13.1,13.1,15.4,,4
7.26,0.4061,0.03884,15.25,-0.1787,0.04258,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS 2WD PASS
MDPV,48XEGCA048,0,4.8,BGMXT06.0398,Truck,280,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,26,1,Not eqipped,BGMX10009392,No,3,HWFE,61,Tier 2
Cert
Gasoline,HWY,0.0188135,0.40125,387.664,0.0211641,,0.0106684,,22.8,MPG,,,,,47.26,0.4061,
0.03884,15.25,-0.1787,0.04258,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS 2WD PASS
MDPV,48XEGCA048,0,4.8,BGMXT06.0398,Truck,280,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,26,1,Not eqipped,BGMX10009677,No,31,Federal fuel
3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.05593,0.57325,616.763,0.01459,,0.03754,,10.1,MPG,9.8,9.6,11.5,,47.26,0.
4061,0.03884,15.25,-0.1787,0.04258,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS 2WD PASS
MDPV,48XEGCA048,0,4.8,BGMXT06.0398,Truck,280,8,1,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,26,1,Not eqipped,BGMX10009678,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.01035,0.05029,376.461,0.00205,,0.01104,,16.6,MPG,,,,,47.26,0.4061,0.038
84,15.25,-0.1787,0.04258,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS CONV 2WD
CARGO,60XEGCA050,8,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,7000,3.42,25.8,1,Not eqipped,DGMX10020505,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.06354,1.06791,691.8,0.02195,,0.04849,,9.1,MPG,9.2,8.7,10.4,,48.76,0.410
9,0.04378,17.83,-0.1599,0.04149,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS CONV 2WD
CARGO,60XEGCA050,8,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,7000,3.42,25.8,1,Not eqipped,DGMX10020506,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.01998,0.26553,411.4,0.00162,,0.01678,,15.3,MPG,,,,,48.76,0.4109,0.04378
,17.83,-0.1599,0.04149,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS CONV 2WD
CARGO,60XEGCA050,8,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,7000,3.42,25.8,1,Not eqipped,DGMX10020507,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.110343,3.03841,716.7,0.0365789,,0.044382,,12.4,MPG,12.3,11.7,14.1,,48.76
,0.4109,0.04378,17.83,-0.1599,0.04149,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G2500 EXPRESS CONV 2WD
CARGO,60XEGCA050,8,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,7000,3.42,25.8,1,Not
eqipped,DGMX10020508,Yes,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.0345158,1.99919,429.3,0.0321378,,0.0168256,,20.7,MPG,,,,,48.76,0.4109,0.
04378,17.83,-0.1599,0.04149,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G3500 EXPRESS 2WD PASS
MDPV,60XEGCA050,9,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,25.8,1,Not
eqipped,DGMX10020509,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0430042,2.16998,409.5,0.0234576,,0.0175499,,21.7,MPG,,,,,46.85,0.4048,0.
03932,21.39,-0.2224,0.04196,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G3500 EXPRESS 2WD PASS
MDPV,60XEGCA050,9,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,25.8,1,Not eqipped,DGMX10020510,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0727,1.31104,662.6,0.0202523,,0.04714,,9.5,MPG,9.7,9.1,11.1,,46.85,0.40
48,0.03932,21.39,-0.2224,0.04196,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G3500 EXPRESS 2WD PASS
MDPV,60XEGCA050,9,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,25.8,1,Not eqipped,DGMX10020511,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00827,0.08172,398.4,0,,0.00946,,15.8,MPG,,,,,46.85,0.4048,0.03932,21.39
,-0.2224,0.04196,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,G3500 EXPRESS 2WD PASS
MDPV,60XEGCA050,9,6,DGMXT06.0396,Truck,323,8,3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6500,3.42,25.8,1,Not eqipped,DGMX10020512,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.111054,3.3755,678.4,0.0664057,,0.0435735,,13.1,MPG,13.1,12.3,15,,46.85,0
.4048,0.03932,21.39,-0.2224,0.04196,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W07859,0,3.6,DGMXV03.6048,Car,300,6,20,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,DGMX91001357,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0010375,0.0171747,220.7400051,0.002268,,0.0009525,0.01,40.3,MPG,,,,,22.8
5,0.354,0.01828,7.29,0.1745,0.01827,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W07859,0,3.6,DGMXV03.6048,Car,300,6,20,A,Automatic,6,Y
,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,DGMX91001358,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0063063,0.2685854,396.4710218,0.0109592,,0.0027576,0.01,22.5,MPG,22.2823
344,20.8748819,26.2773416,,22.85,0.354,0.01828,7.29,0.1745,0.01827,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,
Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,CGMX10015384,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0153155,0.0644535,396.86,0.0065005,,0.0066299,,22.3,MPG,22.2,20.7,26.5,,
22.85,0.354,0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,
Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,CGMX10015386,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA
Unleaded
Gasoline),FTP,0.0433,0.90297,367.715,0.00259,,0.02377,,16.9,MPG,,,,,22.85,0.354,0.01829
,7.16,0.0947,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,
Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,CGMX10015510,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.004752,0.0356616,213.308,0.0043497,,0.0026263,,41.6,MPG,,,,,22.85,0.354,
0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,
Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not
eqipped,CGMX10015560,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00013,0.01789,199.424,0.00108,,0.00275,,31.3,MPG,,,,,22.85,0.354,0.0182
9,7.16,0.0947,0.01904,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,

Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not eqipped,CGMX10020999,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0153155,0.0644535,417.2,0.0065005,,0.0066299,,21.3,MPG,21.2,19.8,25.3,,22.85,0.354,0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not eqipped,CGMX10021000,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004752,0.0356616,229.6,0.0043497,,0.0026263,,38.7,MPG,,,,,22.85,0.354,0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not eqipped,CGMX10021001,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0433,0.90297,391,0.00259,,0.02377,,16.1,MPG,,,,,22.85,0.354,0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,IMPALA,3612W94491,0,3.6,CGMXJ03.6166,Both,280,6,19,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.44,23.4,1,Not eqipped,CGMX10021002,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00013,0.01789,216.3,0.00108,,0.00275,,29.1,MPG,,,,,22.85,0.354,0.01829,7.16,0.0947,0.01904,TWC,Three-way catalyst,Y,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,43C6C30928,56,4.3,DGMXT04.3186,Truck,195,6,90,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.73,28.4,1,Not eqipped,DGMX10020236,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.06576,1.28636,511.255,0.02714,,0.01797,,17.4,MPG,16.3,17.1,18.8,,27.64,1.0908,0.02581,13.91,1.1138,0.02697,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,43C6C30928,56,4.3,DGMXT04.3186,Truck,195,6,90,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.73,28.4,1,Not eqipped,DGMX10020237,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01735,0.58461,367.241,0.00159,,0.0088,,24.2,MPG,,,,,27.64,1.0908,0.02581,13.91,1.1138,0.02697,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020282,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00392,0.28274,349.7,0.00042,,0.00162,,18,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020282,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00392,0.28274,349.7,0.00042,,0.00162,,18,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020283,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03906,0.45215,511.8,0.00284,,0.02293,,12.3,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020283,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03906,0.45215,511.8,0.00284,,0.02293,,12.3,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO 4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020284,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.015856,0.326994,365.7,0.000412,,0.007153,,24.3,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020284,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.015856,0.326994,365.7,0.000412,,0.007153,,24.3,MPG,,,,,31.46,1.0978,0.02898,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020285,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04798,1.054794,545.2,0.00573,,0.012958,,16.3,MPG,15.4,15.9,17.9,,31.46,1.0978,0.02898,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,41,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.42,26,1,Not eqipped,DGMX10020285,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04798,1.054794,545.2,0.00573,,0.012958,,16.3,MPG,15.4,15.9,17.9,,31.46,1.0978,0.02898,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020343,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00392,0.28274,335.352,0.00042,,0.00162,,18.6,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020343,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00392,0.28274,335.352,0.00042,,0.00162,,18.6,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020344,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03906,0.45215,497.695,0.00284,,0.02293,,12.5,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020344,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03906,0.45215,497.695,0.00284,,0.02293,,12.5,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020345,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.015856,0.326994,352.9183,0.000412,,0.007153,,25.1,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020345,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.015856,0.326994,352.9183,0.000412,,0.007153,,25.1,MPG,,,,,29.16,1.0936,0.02699,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020346,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.04798,1.054794,534.5943,0.00573,,0.012958,,16.6,MPG,15.6,16.2,18.2,,29.16,1.0936,0.02699,11.76,0.5487,0.03227,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,48XECPA039,42,4.8,DGMXT05.3373,Truck,295,8,2,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,3.42,26,1,Not eqipped,DGMX10020346,No,31,Federal fuel 3-day

exhaust,61,Tier 2 Cert
Gasoline,FTP,0.04798,1.054794,534.5943,0.00573,,0.012958,,16.6,MPG,15.6,16.2,18.2,,29.1
6,1.0936,0.02699,11.76,0.5487,0.03229,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,53XECPA011A,52,5.3,DGMXT05.3373,Truck,320,8,25,A,Automatic,6,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5250,3.42,24.9,1,Not eqipped,DGMX10020468,Yes,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00415,0.06145,288.8,0.00054,,0.005,,21.8,MPG,,,,,41.43,0.5408,0.03363,8
.6,0.7133,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,53XECPA011A,52,5.3,DGMXT05.3373,Truck,320,8,25,A,Automatic,6,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5250,3.42,24.9,1,Not eqipped,DGMX10020469,Yes,31,Federal
fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.031,0.37654,452.9,0.00681,,0.02202,,13.9,MPG,,,,,41.43,0.5408,0.03363,8
.6,0.7133,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,53XECPA011A,52,5.3,DGMXT05.3373,Truck,320,8,25,A,Automatic,6,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5250,3.42,24.9,1,Not eqipped,DGMX10020470,Yes,31,Federal
fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.03437,0.64917,470.2,0.00716,,0.01191,,18.9,MPG,18.1,18.2,21,,41.43,0.540
8,0.03363,8.6,0.7133,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,53XECPA011A,52,5.3,DGMXT05.3373,Truck,320,8,25,A,Automatic,6,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5250,3.42,24.9,1,Not
eqipped,DGMX10020471,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0086,0.34044,307.5,0.01158,,0.00422,,28.9,MPG,,,,,41.43,0.5408,0.03363,8
.6,0.7133,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,62XEKSB359,29,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.73,27.2,1,Not eqipped,DGMX10020238,Yes,31,Federal fuel 3-day
exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0655586,2.32701,621.5,0.0166627,,0.0152205,,14.3,MPG,14.1,13.6,16.3,,51.
39,0.5865,0.03303,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,62XEKSB359,29,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.73,27.2,1,Not eqipped,DGMX10020239,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0232343,1.219,389.8,0.0134859,,0.0080155,,22.8,MPG,,,,,51.39,0.5865,0.03
303,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,62XEKSB359,29,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.73,27.2,1,Not eqipped,DGMX10020240,Yes,90,US06,61,Tier 2 Cert
Gasoline,US06,0.020687,1.07282,630.3,0.0727004,,0.0089505,,14.1,MPG,8.9,17.3,,,51.39,0.
5865,0.03303,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,62XEKSB359,29,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.73,27.2,1,Not eqipped,DGMX10020241,Yes,3,HWFE,38,E85 (85%
Ethanol 15% EPA Unleaded
Gasoline),HWY,0.00551,0.345777,370.3,0.00073,,0.0036,,17,MPG,,,,,51.39,0.5865,0.03303,7
.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K15 SILVERADO
4WD,62XEKSB359,29,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,6000,3.73,27.2,1,Not eqipped,DGMX10020247,Yes,31,Federal fuel 3-day
exhaust,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.05132,1.58731,605.3,0.00981,,0.02528,,10.4,MPG,10.4,9.9,12,,51.39,0.586
5,0.03303,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K1500 TAHOE 4WD
HYBRID,60C0K41256,10,6,DGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6000,3.08,24.7,1,Not
eqipped,DGMX10020498,Yes,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0159604,0.0174896,398.5,0.0078628,,0.0063848,,22.3,MPG,,,,,52.22,0.106,

0.02957,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K1500 TAHOE 4WD
HYBRID,60C0K41256,10,6,DGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6000,3.08,24.7,1,Not
eqipped,DGMX10020499,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0355418,0.391369,345.8,0.0102097,,0.0092,,25.7,MPG,19.8,32.2,22.8,31.1,5
2.22,0.106,0.02957,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K1500 TAHOE 4WD
HYBRID,60C0K41256,10,6,DGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6000,3.08,24.7,1,Not
eqipped,DGMX10020500,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0043799,0.222366,272.6,0.0040283,,0.0037927,,32.6,MPG,,,,,52.22,0.106,0.
02957,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K1500 TAHOE 4WD
HYBRID,60C0K41256,10,6,DGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6000,3.08,24.7,1,Not
eqipped,DGMX10020501,Yes,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0217067,0.241196,421.2,0.0107251,,0.0082422,,21.1,MPG,14.5,24.3,,,52.22
,0.106,0.02957,27.13,-0.2327,0.03099,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,K1500 TAHOE 4WD
HYBRID,60C0K41256,10,6,DGMXT06.0371,Truck,332,8,2A,CVT,Continuously Variable,1,N,4,4-
Wheel Drive,2,Top gear ration < 1,6000,3.08,24.7,1,Not eqipped,DGMX10020502,Yes,11,Cold
CO,24,Cold CO Regular
(CERT),FTP,0.311568,2.92657,483,0.0129113,,0.0313423,,18.4,MPG,16.4,18,21.1,,57.44,0.11
66,0.03253,26.23,-0.2267,0.0344,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,201DGP4412,0,2,DGMXV02.0021,Car,250,4,6B,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,2.77,26.1,1,Not
eqipped,DGMX10022232,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0369986,0.705647,340.772,0.0051602,,0.0205225,,26,MPG,25.1,25.1,29.1,,34
.12,0.2082,0.01908,6.71,0.195,0.01797,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,201DGP4412,0,2,DGMXV02.0021,Car,250,4,6B,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,2.77,26.1,1,Not
eqipped,DGMX10022233,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0314544,0.797843,211.186,0.0018079,,0.0159243,,42,MPG,,,,,34.12,0.2082,0
.01908,6.71,0.195,0.01797,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,244BGN4226,3,2.4,DGMXV02.4060,Car,182,4,3,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.64,25.6,1,Not
eqipped,DGMX10018805,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0411876,1.3470479,279.7957389,0.0122113,,0.0161432,,32.1,MPG,30,30.9,35.
2,32.5,26.48,0.2366,0.01659,5.07,0.1105,0.0159,TWC,Three-way catalyst,N,,,N,No
averaging

2013,GM,GMX,CHEVROLET,MALIBU,244BGN4226,3,2.4,DGMXV02.4060,Car,182,4,3,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.64,25.6,1,Not
eqipped,DGMX10018806,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0097491,0.5940324,172.6311691,0.0064386,,0.0039224,,52.2,MPG,,,,,26.48,0
.2366,0.01659,5.07,0.1105,0.0159,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,251DGP4391,0,2.5,DGMXV02.5001,Car,197,4,11,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.89,28.8,1,Not
eqipped,DGMX91001435,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0150383,0.4588234,313.8036303,0.0087403,,0.0077882,0.01,28.4,MPG,26.9359
766,26.9980314,32.8798246,,28.53,0.1856,0.01739,7.65,0.0564,0.01718,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,251DGP4391,0,2.5,DGMXV02.5001,Car,197,4,11,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.89,28.8,1,Not
eqipped,DGMX91001436,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0035171,0.1035808,183.0834741,0.0043407,,0.0031465,0.01,48.7,MPG,,,,,28.
53,0.1856,0.01739,7.65,0.0564,0.01718,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,251DGP4391,1,2.5,DGMXV02.5001,Car,197,4,11,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.89,28.8,1,Not

eqipped,DGMX10021449,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0197727,0.505361,319.469,0.0094994,,0.0096314,,27.9,MPG,26.5,26.7,31.7,,
33.94,0.2037,0.01932,9.78,0.1968,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,MALIBU,251DGP4391,1,2.5,DGMXV02.5001,Car,197,4,11,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,2.89,28.8,1,Not
eqipped,DGMX10021450,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0094693,0.531585,198.707,0.0002555,,0.0059813,,44.6,MPG,,,,,33.94,0.2037
,0.01932,9.78,0.1968,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,144HV712DA,0,1.4,CGMXV01.8011,Car,138,4,10,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.23,33.6,1,Not
eqipped,CGMX10019501,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0316713,0.467057,251.618,0.0059334,,0.0058981,,35.1,MPG,33.2,34,39.6,,27
.47,-0.1283,0.02232,8.78,-0.2923,0.02156,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,144HV712DA,0,1.4,CGMXV01.8011,Car,138,4,10,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.23,33.6,1,Not
eqipped,CGMX10019502,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0043653,0.41126,167.165,0.0002364,,0.0038295,,52.9,MPG,,,,,27.47,-
0.1283,0.02232,8.78,-0.2923,0.02156,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,146NV231DM,0,1.4,CGMXV01.8011,Car,138,4,9A,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.65,30.9,1,Not
eqipped,CGMX10016816,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0226955,0.47435,238.202,0.0046875,,0.0080163,,37.1,MPG,35.9,35.8,41.2,,1
9.85,0.2847,0.01713,3.63,0.0201,0.01829,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,146NV231DM,0,1.4,CGMXV01.8011,Car,138,4,9A,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.65,30.9,1,Not
eqipped,CGMX10016817,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0020627,0.0544547,156.352,0.0003473,,0.0020763,,56.8,MPG,,,,,19.85,0.284
7,0.01713,3.63,0.0201,0.01829,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,185HV210DA,0,1.8,CGMXV01.8011,Car,140,4,7,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.47,35.6,1,Not
eqipped,CGMX10020749,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0169238,0.2449787,282.1,0.0033621,,0.002843,,31.4,MPG,30.3,30.5,34.8,,27
.17,0.0055,0.02029,6.59,-0.0044,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,185HV210DA,0,1.8,CGMXV01.8011,Car,140,4,7,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.47,35.6,1,Not
eqipped,CGMX10020750,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0040369,0.2069443,177.7,0.0008234,,0.0029948,,49.7,MPG,,,,,27.17,0.0055,
0.02029,6.59,-0.0044,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,186NV201DM,0,1.8,CGMXV01.8011,Car,138,4,8A,M,Manual,5,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.94,41.6,5,"Equipped, shifted by
survey schedule",CGMX10020751,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0107258,0.147484,262.2,0.0089257,,0.0023902,,33.6,MPG,32.6,32.7,37.7,,20
.06,0.2858,0.01753,6.73,0.1227,0.01833,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC,186NV201DM,0,1.8,CGMXV01.8011,Car,138,4,8A,M,Manual,5,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.94,41.6,5,"Equipped, shifted by
survey schedule",CGMX10020752,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0020933,0.134758,180.6,0.0002643,,0.0016897,,48.1,MPG,,,,,20.06,0.2858,0
.01753,6.73,0.1227,0.01833,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC 5,145HV283DA,0,1.4,DGMXV01.8011,Car,138,4,10B,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.47,36.6,1,Not
eqipped,DGMX10022995,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0266903,0.4501499,279.5,0.0088536,,0.0042413,,31.8,MPG,29.6,30.9,35.5,,3
1.27,-0.1152,0.02517,12.63,-0.1802,0.02308,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC 5,145HV283DA,0,1.4,DGMXV01.8011,Car,138,4,10B,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.47,36.6,1,Not
eqipped,DGMX10022996,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0041035,0.0671452,189.1,0.0016708,,0.002288,,47,MPG,,,,,31.27,-
0.1152,0.02517,12.63,-0.1802,0.02308,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC
RS,14D4105785,0,1.4,DGMXV01.8011,Car,138,4,9B,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3125,4.18,42.8,2,"Equipped, not shifted by
SIL",DGMX10022915,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022127,0.0497772,184.776,0.0010975,,0.0014263,,48,MPG,,,,,22.99,0.3901,
0.01885,8.7,0.0437,0.02071,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SONIC
RS,14D4105785,0,1.4,DGMXV01.8011,Car,138,4,9B,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3125,4.18,42.8,2,"Equipped, not shifted by
SIL",DGMX10022992,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0246077,0.380699,252.805,0.0019295,,0.0045944,,35,MPG,33.2,34.6,37.7,,22
.99,0.3901,0.01885,8.7,0.0437,0.02071,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SPARK,12X6HV440M,0,1.2,DGMXV01.8011,Car,85,4,12,M,Manual,5,N,F,"2
-Wheel Drive, Front",2,Top gear ration < 1,2625,4.21,43.7,1,Not
eqipped,DGMX10020712,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0274066,0.394745,213.298,0.0030277,,0.0032934,,41.6,MPG,39.2,41.1,44.3,,
19.25,0.2141,0.01857,7.1,0.1188,0.01852,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SPARK,12X6HV440M,0,1.2,DGMXV01.8011,Car,85,4,12,M,Manual,5,N,F,"2
-Wheel Drive, Front",2,Top gear ration < 1,2625,4.21,43.7,1,Not
eqipped,DGMX10020713,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0059596,0.167037,163.961,0.0007874,,0.0024421,,54.1,MPG,,,,,19.25,0.2141
,0.01857,7.1,0.1188,0.01852,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SPARK,12X6HV442A,0,1.2,DGMXV01.8011,Car,85,4,11,A,Automatic,4,Y,F
,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.14,43.6,1,Not
eqipped,DGMX91001389,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0342859,0.3833783,240.9898367,0.0022624,,0.0035505,0.01,36.8,MPG,35.0434
32,36.3812579,39.3027633,,18.48,0.408,0.01626,5.09,0.2511,0.01673,TWC,Three-way
catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,SPARK,12X6HV442A,0,1.2,DGMXV01.8011,Car,85,4,11,A,Automatic,4,Y,F
,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.14,43.6,1,Not
eqipped,DGMX91001390,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0060502,0.216,167.3,0.0000909,,0.003,0.01,53.2,MPG,,,,,18.48,0.408,0.016
26,5.09,0.2511,0.01673,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,1411R24644,0,1.4,BGMXV01.4001,Car,85,4,1A,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.1,1,Not
eqipped,BGMX10011997,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.011,1.789,233.936,0.008,,0.003,,37.5,MPG,14.2,43.5,,,26.05,-
0.012,0.0182,4.62,0.1646,0.01462,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,1411R24644,0,1.4,BGMXV01.4001,Car,85,4,1A,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.1,1,Not
eqipped,BGMX10012035,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0179305,1.85211,270.216,0.0088087,,0.004955,,32.6,MPG,,,,,26.05,-
0.012,0.0182,4.62,0.1646,0.01462,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,1411R24644,0,1.4,BGMXV01.4001,Car,85,4,1A,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.1,1,Not
eqipped,BGMX10012036,No,11,Cold CO,25,Cold CO Premium
(CERT),FTP,0.256553,1.86506,241.518,0.0370231,,0.0118104,,36,MPG,26,40.8,34.6,,28.66,-
0.0132,0.02002,0.27,-0.0393,0.01836,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,1411R24644,0,1.4,BGMXV01.4001,Car,85,4,1A,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.1,1,Not
eqipped,BGMX10012134,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0577653,1.24355,184.5448,0.0219271,,0.0054377,,47.5,MPG,36.4,55.6,39.1,6
8.7,26.05,-0.012,0.0182,4.62,0.1646,0.01462,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,1411R24644,0,1.4,BGMXV01.4001,Car,85,4,1A,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.1,1,Not
eqipped,BGMX10012860,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01024,0.44002,165.42127,0.0048618,,0.0014247,,53.6,MPG,,,,,26.05,-
0.012,0.0182,4.62,0.1646,0.01462,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,141DRN4801,0,1.4,DGMXV01.4001,Car,84,4,1A,CVT,Continuously

Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.3,1,Not eqipped,DGMX10020572,No,81,Charge Depleting
UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,25.98,-0.0475,0.01898,6.85,0.0664,0.01617,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,CHEVROLET,VOLT,141DRN4801,0,1.4,DGMXV01.4001,Car,84,4,1A,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",1,No gear ratio < 1,4000,2.16,92.3,1,Not eqipped,DGMX10020573,No,84,Charge Depleting
Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,25.98,-0.0475,0.01898,6.85,0.0664,0.01617,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,C15 SIERRA 2WD,62XEKSB359,30,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,24.9,1,Not eqipped,DGMX10020242,Yes,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0655586,2.32701,577.1,0.0166627,,0.0152205,,15.4,MPG,15.1,14.6,17.5,,32.7,1.0337,0.02688,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,C15 SIERRA 2WD,62XEKSB359,30,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,24.9,1,Not eqipped,DGMX10020243,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0232343,1.219,356.9,0.0134859,,0.0080155,,24.9,MPG,,,,,32.7,1.0337,0.02688,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,C15 SIERRA 2WD,62XEKSB359,30,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,24.9,1,Not eqipped,DGMX10020244,Yes,90,US06,61,Tier 2 Cert
Gasoline,US06,0.020687,1.07282,577.1,0.0727004,,0.0089505,,15.4,MPG,9.6,18.9,,,32.7,1.0337,0.02688,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,C15 SIERRA 2WD,62XEKSB359,30,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,24.9,1,Not eqipped,DGMX10020245,Yes,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.05132,1.58731,562.1,0.00981,,0.02528,,11.2,MPG,11.2,10.6,12.8,,32.7,1.0337,0.02688,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,C15 SIERRA 2WD,62XEKSB359,30,6.2,DGMXT06.2375,Truck,403,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.42,24.9,1,Not eqipped,DGMX10020246,Yes,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.00551,0.345777,338.4,0.00073,,0.0036,,18.6,MPG,,,,,32.7,1.0337,0.02688,7.9,0.5157,0.02664,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K1500 YUKON XL AWD,62XEKSB359,0,6.2,BGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6500,3.42,24.9,1,Not eqipped,BGMX10009183,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0246719,0.761792,574.223,0.0044604,,0.0068524,,15.4,MPG,14.8,14.9,17,,36.51,1.0031,0.02818,8.32,0.6487,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K1500 YUKON XL AWD,62XEKSB359,0,6.2,BGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6500,3.42,24.9,1,Not eqipped,BGMX10009184,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034,0.345878,365.073,0.0002627,,0.0023748,,24.2,MPG,,,,,36.51,1.0031,0.02818,8.32,0.6487,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K1500 YUKON XL AWD,62XEKSB359,0,6.2,BGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6500,3.42,24.9,1,Not eqipped,BGMX10010047,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.03986,0.74776,564.367,0.00477,,0.02065,,11.1,MPG,10.9,10.5,12.3,,36.51,1.0031,0.02818,8.32,0.6487,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K1500 YUKON XL AWD,62XEKSB359,0,6.2,BGMXT06.2375,Truck,403,8,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,6500,3.42,24.9,1,Not eqipped,BGMX10010048,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded

Gasoline),HWY,0.0053,0.22698,344.09,0.00039,,0.00211,,18.1,MPG,,,,,36.51,1.0031,0.02818
,8.32,0.6487,0.02974,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K2500 YUKON XL
4WD,60XECSB655,1,6,BGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,7000,3.73,27.4,1,Not eqipped,BGMX10008654,No,31,Federal fuel 3-day
exhaust,61,Tier 2 Cert
Gasoline,FTP,0.0907323,2.03689,702.279,0.0280364,,0.0307714,,12.6,MPG,,,,,55.15,1.0163,
0.02582,26.43,0.5121,0.02804,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,K2500 YUKON XL
4WD,60XECSB655,1,6,BGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top
gear ration < 1,7000,3.73,27.4,1,Not eqipped,BGMX10008655,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0221009,0.474835,417.563,0.0059453,,0.0125513,,21.2,MPG,,,,,55.15,1.0163
,0.02582,26.43,0.5121,0.02804,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,TK20906,60XEKS9606,0,6,AGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,4,4-
Wheel Drive,2,Top gear ration < 1,7000,3.73,28.2,1,Not
eqipped,AGMX01084377,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert
Gasoline,FTP,0.08164,1.57243,753.139,0.02465,,0.02493,,11.8,MPG,11.6,11.2,13.3,,64.17,1
.4332,0.02702,35.1,0.292,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,GM,GMX,GMC,TK20906,60XEKS9606,0,6,AGMXT06.0395,Truck,352,8,1,A,Automatic,6,Y,4,4-
Wheel Drive,2,Top gear ration < 1,7000,3.73,28.2,1,Not
eqipped,AGMX10007727,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00596,0.00606,464.65,0.00497,,0.00481,,19.2,MPG,,,,,64.17,1.4332,0.02702
,35.1,0.292,0.0341,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9A1A,1,2,DHNXV02.0CB2,Car,150,4,D9A1A1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.44,36.9,1,Not
eqipped,DHNX10019072,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01665,0.528,290.51,0.0087,,0.00344,,30.3,MPG,29.5,29.4,33.4,,25.53,0.091
4,0.01824,10.88,-0.0319,0.01826,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9A1A,1,2,DHNXV02.0CB2,Car,150,4,D9A1A1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.44,36.9,1,Not
eqipped,DHNX10019768,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00944,0.088,178.12,0.0013,,0.00476,,49.7,MPG,,,,,25.53,0.0914,0.01824,10
.88,-0.0319,0.01826,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9B1M,0,2.4,DHNXV02.4MB3,Car,201,4,D9B1M1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.76,43.3,1,Not
eqipped,DHNX10019062,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0096,0.462,331.2,0.0176,,0.0015,,26.7,MPG,27.1,24.9,30.5,,24.93,0.2001,0
.01815,5.63,0.2895,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9B1M,0,2.4,DHNXV02.4MB3,Car,201,4,D9B1M1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.76,43.3,1,Not
eqipped,DHNX10019063,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00311,0.221,205.68,0.0034,,0.00118,,42.9,MPG,,,,,24.93,0.2001,0.01815,5.
63,0.2895,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9B1M,0,2.4,DHNXV02.4MB3,Car,201,4,D9B1M1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.76,43.3,1,Not
eqipped,DHNX10019064,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01784,1.611,292.25,0.0148,,,,30.1,MPG,20.7,34.5,,,24.93,0.2001,0.01815,
5.63,0.2895,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9B1M,0,2.4,DHNXV02.4MB3,Car,201,4,D9B1M1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.76,43.3,1,Not
eqipped,DHNX10019065,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.00461,0.345,414.6,0.0059,,,,21.3,MPG,,,,,24.93,0.2001,0.01815,5.63,0.28
95,0.01483,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX,ED9B1M,0,2.4,DHNXV02.4MB3,Car,201,4,D9B1M1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.76,43.3,1,Not
eqipped,DHNX10019066,No,11,Cold CO,24,Cold CO Regular
(CERT),FTP,0.15146,1.226,363.88,,,,,23.7,MPG,22.3,22.7,27.5,,27.7,0.2223,0.02017,7.82,0
.0016,0.02088,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,2,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019027,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01037,0.881,231.66,0.0056,,,,37.9,MPG,31,40.6,,,30.04,0.0232,0.01968,8.
7,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,2,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019771,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.00598,0.116,166.93,0.0089,,0.00097,,53,MPG,47.4,55.8,51.1,57.7,30.04,0.0
232,0.01968,8.7,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,2,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019772,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00001,0.03,153.75,0.0025,,0.00018,,57.5,MPG,,,,,30.04,0.0232,0.01968,8.7
,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,3,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019030,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01035,2.531,229.18,0.0043,,,,38,MPG,29.7,41.3,,,30.04,0.0232,0.01968,8.
7,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,3,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019773,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.00589,0.146,168.69,0.0097,,0.00103,,52.3,MPG,46.8,56.1,50.3,56.8,30.04,0
.0232,0.01968,8.7,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C1C,3,1.5,DHNXV01.5WFB,Car,110,,D9C1C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019774,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00775,0.08,153.54,0.0048,,0.00138,,57.5,MPG,,,,,30.04,0.0232,0.01968,8.7
,0.1573,0.01652,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,2,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019042,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00205,0.722,237.47,0.0011,,,,37.2,MPG,29,40.3,,,30.04,0.0232,0.01968,7.
49,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,2,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019779,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.00333,0.064,165.14,0.0093,,0.00061,,53.7,MPG,48.1,58.3,50.8,57.8,30.04,0
.0232,0.01968,7.49,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,2,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019780,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00037,0.071,149.76,0.0006,,0.00029,,59,MPG,,,,,30.04,0.0232,0.01968,7.49
,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,3,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <

1,3250,4.2,30.9,1,Not eqipped,DHNX10019045,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00229,2.625,235.77,0.001,,,,36.9,MPG,28.1,40.5,,,30.04,0.0232,0.01968,7
.49,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,3,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019781,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0031,0.05,167.56,0.0093,,0.00059,,52.7,MPG,47.6,58.5,49.8,56.5,30.04,0.0
232,0.01968,7.49,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,ILX
HYBRID,ED9C2C,3,1.5,DHNXV01.5YD2,Car,110,4,D9C2C1,SCV,Selectable Continuously Variable
(e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3250,4.2,30.9,1,Not eqipped,DHNX10019782,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00144,0.108,152.53,0.002,,0.00047,,57.9,MPG,,,,,30.04,0.0232,0.01968,7.4
9,0.1485,0.0166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,MDX 4WD,EAYE1A,0,3.7,AHNXT03.7W19,Truck,300,6,AYE1A1,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.25,28.2,1,Not
eqipped,AHNX10004517,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02654,0.09,448.9,0.0158,,0.00187,,19.8,MPG,19.9,18.9,21.7,,47.67,0.6654,
0.02667,16.32,0.5616,0.02698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,MDX 4WD,EAYE1A,0,3.7,AHNXT03.7W19,Truck,300,6,AYE1A1,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.25,28.2,1,Not
eqipped,AHNX10004518,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00253,0.006,310.13,0.0032,,0.0009,,28.7,MPG,,,,,47.67,0.6654,0.02667,16.
32,0.5616,0.02698,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,RDX 2WD,ED8A2A,0,3.5,DHNXT03.5H13,Truck,273,6,D8A1A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,4.25,28.6,1,Not
eqipped,DHNX10019137,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00749,0.098,350.84,0.0179,,0.00283,,25.2,MPG,25.1,24,28.1,,22.81,0.3709,
0.02297,2.67,0.2677,0.02324,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,RDX 2WD,ED8A2A,0,3.5,DHNXT03.5H13,Truck,273,6,D8A1A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,4.25,28.6,1,Not
eqipped,DHNX10019138,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00196,0.005,224.48,0.0075,,0.00147,,39.6,MPG,,,,,22.81,0.3709,0.02297,2.
67,0.2677,0.02324,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,RDX 4WD,ED8A1A,0,3.5,DHNXT03.5H13,Truck,273,6,D8A1A1,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,4.25,28.6,1,Not
eqipped,DHNX10019135,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00726,0.083,362.05,0.0195,,0.00217,,24.5,MPG,23.9,23.4,27.4,,25.25,0.458
8,0.02296,1.88,0.3156,0.02327,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,RDX 4WD,ED8A1A,0,3.5,DHNXT03.5H13,Truck,273,6,D8A1A1,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,4.25,28.6,1,Not
eqipped,DHNX10019136,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00139,0,235.19,0.0076,,0.00092,,37.7,MPG,,,,,25.25,0.4588,0.02296,1.88,0
.3156,0.02327,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL 2WD,ECK11A,0,3.5,CHNXV03.5EB3,Car,280,6,CK11A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.72,27,1,Not
eqipped,CHNX10011981,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02027,0.128,353.07,0.0211,,0.00327,,25.1,MPG,25.9,23.4,28.3,,36.71,0.407
2,0.01651,-1.84,0.7443,0.0126,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL 2WD,ECK11A,0,3.5,CHNXV03.5EB3,Car,280,6,CK11A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.72,27,1,Not
eqipped,CHNX10012112,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0,217.57,0.0041,,0.00051,,40.7,MPG,,,,,36.71,0.4072,0.01651,-
1.84,0.7443,0.0126,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL
4WD,EAK21M,0,3.7,AHNXV03.7RB9,Car,305,6,AK21M1,M,Manual,6,N,A,All Wheel Drive,2,Top
gear ration < 1,4250,3.84,34.4,1,Not eqipped,AHNX10004304,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.00307,0.123,258.18,0.0141,,0.0018,,34.4,MPG,,,,,39.05,0.4645,0.02023,18.86,0.168,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL 4WD,EAK21M,0,3.7,AHNXV03.7RB9,Car,305,6,AK21M1,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4250,3.84,34.4,1,Not eqipped,AHNX10004394,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01363,0.371,405.95,0.0231,,0.00342,,21.9,MPG,,,,,39.05,0.4645,0.02023,18.86,0.168,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL 4WD,ECK21A,0,3.7,CHNXV03.7JB3,Car,305,6,CK21A1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.72,27,1,Not eqipped,CHNX10011986,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0107,0.118,385.06,0.0111,,0.00217,,23,MPG,23.6,21.6,25.8,,40.69,0.5711,0.0166,4.38,0.7923,0.0128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,TL 4WD,ECK21A,0,3.7,CHNXV03.7JB3,Car,305,6,CK21A1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.72,27,1,Not eqipped,CHNX10011987,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00066,0.001,243.13,0.0036,,0.0005,,36.5,MPG,,,,,40.69,0.5711,0.0166,4.38,0.7923,0.0128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51A,0,2.4,BHNXV02.4DB9,Car,201,4,BL51A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,4.44,33.7,1,Not eqipped,BHNX10011397,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01485,0.118,322.49,0.024,,0.00547,,27.4,MPG,27.4,26.2,29.8,,28.05,0.3283,0.01772,10.65,0.349,0.016,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51A,0,2.4,BHNXV02.4DB9,Car,201,4,BL51A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,4.44,33.7,1,Not eqipped,BHNX10011398,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.014,0.049,209.88,0.0031,,0.00581,,42,MPG,,,,,28.05,0.3283,0.01772,10.65,0.349,0.016,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51A,1,2.4,BHNXV02.4DB9,Car,201,4,BL51A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.44,33.7,1,Not eqipped,BHNX10011399,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01321,0.11,313.65,0.0163,,0.00473,,28.1,MPG,27.9,26.7,31.4,,25.27,0.3514,0.01646,6.84,0.3876,0.0139,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51A,1,2.4,BHNXV02.4DB9,Car,201,4,BL51A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.44,33.7,1,Not eqipped,BHNX10011400,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00726,0.039,198.85,0.0028,,0.00352,,44.3,MPG,,,,,25.27,0.3514,0.01646,6.84,0.3876,0.0139,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51M,0,2.4,BHNXV02.4DB9,Car,201,4,BL51M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.76,43.9,1,Not eqipped,BHNX10011099,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02154,0.108,334.64,0.0236,,0.0116,,26.5,MPG,27.4,24.9,29.5,,19.58,0.5949,0.01436,2.27,0.4864,0.01413,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL51M,0,2.4,BHNXV02.4DB9,Car,201,4,BL51M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,4.76,43.9,1,Not eqipped,BHNX10011100,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01897,0.076,217.31,0.0022,,0.01138,,40.9,MPG,,,,,19.58,0.5949,0.01436,2.27,0.4864,0.01413,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL81A,0,3.5,BHNXV03.5EB9,Car,280,6,BL81A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,4.31,27.8,1,Not eqipped,BHNX10011101,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01702,0.104,361.04,0.0327,,0.00327,,24.5,MPG,24.3,23.2,27.9,,28.76,0.5304,0.01458,9.22,0.3082,0.01468,,,N,,,N,No averaging

2013,Honda,HNX,ACURA,TSX,EBL81A,0,3.5,BHNXV03.5EB9,Car,280,6,BL81A1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,4.31,27.8,1,Not eqipped,BHNX10011396,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00173,0,225.41,0.0064,,0.0018,,39.5,MPG,,,,,28.76,0.5304,0.01458,9.22,0.3082,0.01468,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,0,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022389,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03384,0.372,258.97,0.0208,,0.01234,,34.3,MPG,32.4,33.4,37.8,,41.46,-0.5168,0.02476,4.03,0.1977,0.01593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,0,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022390,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0066,0.018,174.5,0.0122,,0.00471,,51.1,MPG,,,,,41.46,-0.5168,0.02476,4.03,0.1977,0.01593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,1,2.4,DHNXV02.4FB3,Car,183,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX91001440,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039163,0.0236107,178.5030474,0.0028064,,0.0021959,0.01,49.9,MPG,,,,,41.46,-0.5168,0.02476,4.03,0.1977,0.01593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,1,2.4,DHNXV02.4FB3,Car,183,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX91001448,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0222418,0.2729449,269.1073647,0.0134999,,0.0073825,0.01,33.1,MPG,31.3313611,32.2617209,36.4875545,,41.46,-0.5168,0.02476,4.03,0.1977,0.01593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,2,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022391,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02777,0.272,255.91,0.0205,,0.00965,,34.7,MPG,32.2,34,38.5,,40.77,-0.5063,0.02455,4.22,0.1364,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,2,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022392,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00636,0.015,172.47,0.0189,,0.00461,,51.7,MPG,,,,,40.77,-0.5063,0.02455,4.22,0.1364,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,3,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022393,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02982,0.271,253.91,0.0202,,0.01022,,35,MPG,32.8,34.3,38.3,,40.77,-0.5063,0.02455,4.22,0.1364,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA02C,3,2.4,DHNXV02.4FB3,Car,185,4,DA02C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022394,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00591,0.012,173.49,0.0219,,0.00441,,51.4,MPG,,,,,40.77,-0.5063,0.02455,4.22,0.1364,0.01674,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21C,0,2.4,DHNXV02.4FB3,Car,189,4,DA21C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10021458,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01955,0.143,266.32,0.0169,,0.00662,,33.4,MPG,31.2,32.5,37.3,,46.59,-0.5204,0.02512,7.91,0.1177,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21C,0,2.4,DHNXV02.4FB3,Car,189,4,DA21C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10021459,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00364,0.015,186.21,0.0079,,0.00285,,47.8,MPG,,,,,46.59,-0.5204,0.02512,7.91,0.1177,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21C,1,2.4,DHNXV02.4FB3,Car,189,4,DA21C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10022387,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02241,0.15,266.63,0.0201,,0.00813,,33.3,MPG,31.6,32.4,36.9,,46.59,-0.5204,0.02512,7.91,0.1177,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21C,1,2.4,DHNXV02.4FB3,Car,189,4,DA21C1,SCV,Selectable

Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10022388,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00205,0.019,187.68,0.0044,,0.00155,,47.3,MPG,,,,,46.59,-0.5204,0.02512,7.91,0.1177,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,0,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.39,37.6,1,Not eqipped,DHNX10022400,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01488,0.09,288.57,0.0271,,0.00782,,30.8,MPG,30.9,28.9,35.1,,19.1,0.2685,0.01621,7.28,0.084,0.01655,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,0,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.39,37.6,1,Not eqipped,DHNX10022401,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01175,0.046,179.58,0.0174,,0.00729,,49.4,MPG,,,,,19.1,0.2685,0.01621,7.28,0.084,0.01655,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,1,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.39,37.6,1,Not eqipped,DHNX10022402,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01549,0.064,287.72,0.0284,,0.00847,,30.9,MPG,30.9,29.1,35,,19.1,0.2685,0.01621,7.28,0.084,0.01655,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,1,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.39,37.6,1,Not eqipped,DHNX10022403,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01269,0.041,180.23,0.0202,,0.00816,,49.4,MPG,,,,,19.1,0.2685,0.01621,7.28,0.084,0.01655,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,2,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,37.6,1,Not eqipped,DHNX10022404,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01705,0.05,305.23,0.0316,,0.01105,,29.2,MPG,30.5,26.8,33.7,,19.85,0.2584,0.01642,8.1,0.0628,0.01691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,2,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,37.6,1,Not eqipped,DHNX10022405,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00992,0.04,189.2,0.011,,0.00656,,47.1,MPG,,,,,19.85,0.2584,0.01642,8.1,0.0628,0.01691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,3,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,37.6,1,Not eqipped,DHNX10022406,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01675,0.073,308.67,0.0331,,0.01013,,28.8,MPG,29.6,26.7,33.2,,19.85,0.2584,0.01642,8.1,0.0628,0.01691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA21M,3,2.4,DHNXV02.4FB3,Car,185,4,DA21M1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,37.6,1,Not eqipped,DHNX10022407,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0113,0.044,186.96,0.0182,,0.00718,,47.6,MPG,,,,,19.85,0.2584,0.01642,8.1,0.0628,0.01691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA31C,0,2.4,DHNXV02.4NC3,Car,189,4,DA31C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10021489,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00742,0.08,268.27,0.0101,,0.00185,,33.2,MPG,31.5,32.2,36.7,,46.59,-0.5204,0.02512,9.1,0.0362,0.01818,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA31C,0,2.4,DHNXV02.4NC3,Car,189,4,DA31C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10021490,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00188,0.047,185.54,0.0032,,0.00098,,47.8,MPG,,,,,46.59,-0.5204,0.02512,9.1,0.0362,0.01818,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA31C,1,2.4,DHNXV02.4NC3,Car,189,4,DA31C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10022408,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00202,0.064,187.51,0.0036,,0.0012,,47.3,MPG,,,,,46.59,-

0.5204,0.02512,9.1,0.0362,0.01818,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA31C,1,2.4,DHNXV02.4NC3,Car,189,4,DA31C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,26.9,1,Not eqipped,DHNX10022409,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00712,0.085,266.95,0.008,,0.00189,,33.3,MPG,31.9,32.3,36.7,,46.59,-
0.5204,0.02512,9.1,0.0362,0.01818,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,0,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022410,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00757,0.09,258.41,0.0079,,0.00205,,34.5,MPG,32.7,33.4,38.2,,41.46,-
0.5168,0.02476,5.54,0.101,0.01722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,0,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022411,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00143,0.034,174.63,0.0031,,0.00094,,50.8,MPG,,,,,41.46,-
0.5168,0.02476,5.54,0.101,0.01722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,1,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022412,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00814,0.084,258.67,0.0079,,0.00242,,34.3,MPG,32.7,33.4,37.9,,41.46,-
0.5168,0.02476,5.54,0.101,0.01722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,1,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.24,27.3,1,Not eqipped,DHNX10022413,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00198,0.043,173.98,0.0039,,0.00113,,51.1,MPG,,,,,41.46,-
0.5168,0.02476,5.54,0.101,0.01722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,2,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022414,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00733,0.074,257.88,0.0075,,0.00207,,34.5,MPG,32.9,33.4,38.2,,40.77,-
0.5063,0.02455,6.84,0.0856,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,2,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022417,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.033,173.34,0.0032,,0.00061,,51.4,MPG,,,,,40.77,-
0.5063,0.02455,6.84,0.0856,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,3,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022415,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00129,0.026,171.93,0.0033,,0.00078,,51.7,MPG,,,,,40.77,-
0.5063,0.02455,6.84,0.0856,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDA33C,3,2.4,DHNXV02.4NC3,Car,185,4,DA33C1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.24,27.3,1,Not eqipped,DHNX10022416,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00766,0.069,256.36,0.0094,,0.00209,,34.7,MPG,33,33.7,38.4,,40.77,-
0.5063,0.02455,6.84,0.0856,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG01A,0,3.5,DHNXV03.5GB4,Car,278,6,DG01A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10021560,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0078,0.153,329.49,0.0125,,0.0035,,27,MPG,27.9,24.8,31.5,,23.1,0.31,0.014
87,2.54,0.3476,0.01365,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG01A,0,3.5,DHNXV03.5GB4,Car,278,6,DG01A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10021561,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00165,0.018,181.91,0.0047,,0.00156,,48.9,MPG,,,,,23.1,0.31,0.01487,2.54,
0.3476,0.01365,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG01A,1,3.5,DHNXV03.5GB4,Car,278,6,DG01A1,SA,Semi-

Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10022258,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00801,0.121,329.8,0.0138,,0.0034,,27,MPG,27.9,24.8,31.4,,23.1,0.31,0.01487,2.54,0.3476,0.01365,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG01A,1,3.5,DHNXV03.5GB4,Car,278,6,DG01A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10022259,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00216,0.021,184.16,0.0063,,0.00176,,48.4,MPG,,,,,23.1,0.31,0.01487,2.54,0.3476,0.01365,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG02A,0,3.5,DHNXV03.5GB4,Car,278,6,DG02A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not eqipped,DHNX10021787,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0082,0.122,339.63,0.0118,,0.00258,,26.2,MPG,26.6,24.2,30.7,,28.52,0.3061,0.01592,6.56,0.1851,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG02A,0,3.5,DHNXV03.5GB4,Car,278,6,DG02A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not eqipped,DHNX10022116,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00171,0.02,194.63,0.008,,0.00129,,45.5,MPG,,,,,28.52,0.3061,0.01592,6.56,0.1851,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG02A,1,3.5,DHNXV03.5GB4,Car,278,6,DG02A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not eqipped,DHNX10021789,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0095,0.162,339.89,0.0154,,0.00358,,26.2,MPG,26.3,24.4,30.1,,28.52,0.3061,0.01592,6.56,0.1851,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG02A,1,3.5,DHNXV03.5GB4,Car,278,6,DG02A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not eqipped,DHNX10022262,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00173,0.02,196.37,0.0054,,0.00129,,45.3,MPG,,,,,28.52,0.3061,0.01592,6.56,0.1851,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG11A,0,3.5,DHNXV03.5VC3,Car,278,6,DG11A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10021460,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00427,0.13,333.86,0.0106,,0.00125,,26.6,MPG,27.7,24.6,30.5,,23.1,0.31,0.01487,0.16,0.4257,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG11A,0,3.5,DHNXV03.5VC3,Car,278,6,DG11A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX10021461,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00045,0.048,183.68,0.0036,,0.00043,,48.3,MPG,,,,,23.1,0.31,0.01487,0.16,0.4257,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG11A,1,3.5,DHNXV03.5VC3,Car,278,6,DG11A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX91001441,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0069738,0.1493568,342.6473635,0.0104473,,0.0011074,0.01,26,MPG,25.6077725,24.3984602,30.2459613,,23.1,0.31,0.01487,0.16,0.4257,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG11A,1,3.5,DHNXV03.5VC3,Car,278,6,DG11A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX91001442,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001589,0.105941,186.786855,0.0041163,,0.0005169,0.01,47.7,MPG,,,,,23.1,0.31,0.01487,0.16,0.4257,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG11A,1,3.5,DHNXV03.5VC3,Car,278,6,DG11A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,29.2,1,Not eqipped,DHNX91001451,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0049922,0.1364747,346.6338029,0.0080434,,0.0011834,0.01,25.7,MPG,25.6443163,24.1085635,29.611873,,23.1,0.31,0.01487,0.16,0.4257,0.01265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG12A,0,3.5,DHNXV03.5VC3,Car,278,6,DG12A1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not eqipped,DHNX10021778,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.00441,0.119,342.92,0.0137,,0.00112,,25.9,MPG,26.4,24,30.1,,28.52,0.3061,
0.01592,7.56,0.1225,0.01661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG12A,0,3.5,DHNXV03.5VC3,Car,278,6,DG12A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not
eqipped,DHNX10022260,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00102,0.082,197.59,0.0071,,0.00043,,44.8,MPG,,,,,28.52,0.3061,0.01592,7.
56,0.1225,0.01661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG12A,1,3.5,DHNXV03.5VC3,Car,278,6,DG12A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not
eqipped,DHNX10021780,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00444,0.118,343.06,0.0114,,0.00112,,25.9,MPG,26,24.2,29.9,,28.52,0.3061,
0.01592,7.56,0.1225,0.01661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG12A,1,3.5,DHNXV03.5VC3,Car,278,6,DG12A1,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.94,28.8,1,Not
eqipped,DHNX10022261,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009,0.096,196.79,0.007,,0.0004,,45,MPG,,,,,28.52,0.3061,0.01592,7.56,0.
1225,0.01661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG21M,0,3.5,DHNXV03.5GB4,Car,278,6,DG21M1,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.55,36,1,Not
eqipped,DHNX10021791,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02098,0.267,390.01,0.0328,,0.00721,,22.8,MPG,23.8,20.8,26.8,,26.01,0.257
4,0.01669,9.85,0.0686,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG21M,0,3.5,DHNXV03.5GB4,Car,278,6,DG21M1,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.55,36,1,Not
eqipped,DHNX10021792,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00285,0.003,225.72,0.0197,,0.0028,,39.4,MPG,,,,,26.01,0.2574,0.01669,9.8
5,0.0686,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG21M,1,3.5,DHNXV03.5GB4,Car,278,6,DG21M1,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.55,36,1,Not
eqipped,DHNX10021794,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02442,0.278,391.78,0.0359,,0.00718,,22.7,MPG,23.8,20.6,26.9,,26.01,0.257
4,0.01669,9.85,0.0686,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ACCORD,EDG21M,1,3.5,DHNXV03.5GB4,Car,278,6,DG21M1,M,Manual,6,N,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.55,36,1,Not
eqipped,DHNX10021795,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00294,0.003,227.74,0.0379,,0.00286,,39.1,MPG,,,,,26.01,0.2574,0.01669,9.
85,0.0686,0.01723,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EX,EC5A3A,2,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,29.5,1,Not eqipped,CHNX10016209,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0165,0.447,303.8,0.0192,,0.00331,,29.1,MPG,28.7,27.8,32.2,,20.74,0.3756,
0.02184,5.06,0.2775,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EX,EC5A3A,2,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,29.5,1,Not
eqipped,CHNX10016210,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00784,0.116,204.72,0.0107,,0.00262,,43.1,MPG,,,,,20.74,0.3756,0.02184,5.
06,0.2775,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EX,EC5A3A,3,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,29.5,1,Not eqipped,CHNX10016211,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01707,0.4,300.11,0.0173,,0.0033,,29.4,MPG,28.6,28.2,32.8,,20.74,0.3756,0
.02184,5.06,0.2775,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EX,EC5A3A,3,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,29.5,1,Not
eqipped,CHNX10016212,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.00987,0.109,202.33,0.0079,,0.00311,,43.8,MPG,,,,,20.74,0.3756,0.02184,5.
06,0.2775,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EXL,EC5A3A,0,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,4.44,29.5,1,Not eqipped,CHNX91001034,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0279434,0.6132029,313.4694553,0.0227269,,0.0042137,0.01,28.4,MPG,27.1579
09,27.1552563,31.9023489,,21.34,0.3793,0.02185,5.66,0.2812,0.02123,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EXL,EC5A3A,0,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,4.44,29.5,1,Not
eqipped,CHNX91001035,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0105592,0.1408353,204.1962316,0.0069073,,0.003115,0.01,43.6,MPG,,,,,21.3
4,0.3793,0.02185,5.66,0.2812,0.02123,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EXL,EC5A3A,1,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,4.44,29.5,1,Not eqipped,CHNX10016207,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01705,0.434,300.88,0.0177,,0.00325,,29.3,MPG,28.7,28,32.9,,21.34,0.3793,
0.02185,5.66,0.2812,0.02123,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
EXL,EC5A3A,1,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,4.44,29.5,1,Not
eqipped,CHNX10016208,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00752,0.097,205.31,0.0077,,0.00269,,43.2,MPG,,,,,21.34,0.3793,0.02185,5.
66,0.2812,0.02123,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
LX,EC5A3A,4,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,30.1,1,Not
eqipped,CHNX91001042,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0106917,0.1441183,208.8561587,0.006748,,0.0029492,0.01,42.6,MPG,,,,,20.2
2,0.3724,0.02183,5.2,0.2757,0.02103,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
LX,EC5A3A,4,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,30.1,1,Not eqipped,CHNX91001043,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0303786,0.6570405,314.2470184,0.0187274,,0.0044533,0.01,28.3,MPG,27.1759
142,27.1500384,31.5573337,,20.22,0.3724,0.02183,5.2,0.2757,0.02103,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
LX,EC5A3A,5,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,30.1,1,Not eqipped,CHNX10016213,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01527,0.397,294.37,0.0169,,0.00313,,30,MPG,29.2,28.8,33.4,,20.22,0.3724,
0.02183,5.2,0.2757,0.02103,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 2WD
LX,EC5A3A,5,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,4.44,30.1,1,Not
eqipped,CHNX10016214,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00796,0.091,199.04,0.0072,,0.00278,,44.5,MPG,,,,,20.22,0.3724,0.02183,5.
2,0.2757,0.02103,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EX,EC5A1A,2,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top
gear ration < 1,3750,4.44,31.1,1,Not eqipped,CHNX10016199,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0127,0.368,310.76,0.0159,,0.00223,,28.4,MPG,27.8,27.2,31.6,,24.71,0.3847
,0.0216,11.28,0.2166,0.02192,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EX,EC5A1A,2,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top

gear ration < 1,3750,4.44,31.1,1,Not eqipped,CHNX10016200,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00683,0.082,210.28,0.0059,,0.00223,,42.1,MPG,,,,,24.71,0.3847,0.0216,11.28,0.2166,0.02192,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EX,EC5A1A,3,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.1,1,Not eqipped,CHNX10016201,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01379,0.414,311.59,0.0159,,0.00248,,28.3,MPG,27.7,27.2,31.6,,24.71,0.3847,0.0216,11.28,0.2166,0.02192,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EX,EC5A1A,3,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.1,1,Not eqipped,CHNX10016202,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00783,0.106,212.33,0.0078,,0.00268,,41.7,MPG,,,,,24.71,0.3847,0.0216,11.28,0.2166,0.02192,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EXL,EC5A1A,0,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,4.44,31.1,1,Not eqipped,CHNX10016130,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00291,0.076,216.14,0.0049,,0.00122,,41,MPG,,,,,25.31,0.3884,0.02161,8.31,0.3881,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EXL,EC5A1A,0,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,4.44,31.1,1,Not eqipped,CHNX10016131,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01411,0.468,317.57,0.0124,,0.0019,,27.8,MPG,27,26.7,30.8,,25.31,0.3884,0.02161,8.31,0.3881,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EXL,EC5A1A,1,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,4.44,31.1,1,Not eqipped,CHNX10016197,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01377,0.389,316.31,0.0161,,0.00225,,28,MPG,27.1,26.9,30.9,,25.31,0.3884,0.02161,8.31,0.3881,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
EXL,EC5A1A,1,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,4.44,31.1,1,Not eqipped,CHNX10016198,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0056,0.084,214.82,0.0059,,0.00188,,41.2,MPG,,,,,25.31,0.3884,0.02161,8.31,0.3881,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
LX,EC5A1A,4,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.7,1,Not eqipped,CHNX10016203,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01275,0.433,308.76,0.0159,,0.00225,,28.6,MPG,28,27.3,32,,22.19,0.3831,0.02176,8.29,0.2594,0.02142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
LX,EC5A1A,4,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.7,1,Not eqipped,CHNX10016204,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00789,0.108,209.25,0.0066,,0.00284,,42.3,MPG,,,,,22.19,0.3831,0.02176,8.29,0.2594,0.02142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
LX,EC5A1A,5,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.7,1,Not eqipped,CHNX10016205,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01392,0.402,307.45,0.0184,,0.00243,,28.8,MPG,28,27.5,32,,22.19,0.3831,0.02176,8.29,0.2594,0.02142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,CR-V 4WD
LX,EC5A1A,5,2.4,CHNXJ02.4XB3,Both,185,4,C5A1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.44,31.7,1,Not eqipped,CHNX10016206,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0079,0.101,209.42,0.0061,,0.0027,,42.3,MPG,,,,,22.19,0.3831,0.02176,8.29,0.2594,0.02142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT,EBP31A,1,1.5,BHNXV01.5KB2,Car,117,4,BP31A1,A,Automatic,5,Y,F,"

2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.56,36.8,1,Not
eqipped,BHNX10011402,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02189,0.393,238.2,0.0068,,0.00383,,37.2,MPG,35.4,36.5,40.1,,20.79,0.2787
,0.01913,2.35,0.2976,0.01765,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT,EBP31A,1,1.5,BHNXV01.5KB2,Car,117,4,BP31A1,A,Automatic,5,Y,F,"
2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.56,36.8,1,Not
eqipped,BHNX10011403,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00884,0.138,171.72,0.0029,,0.0019,,51.6,MPG,,,,,20.79,0.2787,0.01913,2.3
5,0.2976,0.01765,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT,EBP31M,2,1.5,BHNXV01.5KB2,Car,117,4,BP31M1,M,Manual,5,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,2750,4.62,49.1,1,Not
eqipped,BHNX10011216,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00736,0.092,182.18,0.0025,,0.00245,,48.7,MPG,,,,,20.54,0.2911,0.01951,2.
66,0.2279,0.01932,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT,EBP31M,2,1.5,BHNXV01.5KB2,Car,117,4,BP31M1,M,Manual,5,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,2750,4.62,49.1,1,Not
eqipped,BHNX10011401,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01487,0.353,238.59,0.007,,0.00236,,37.1,MPG,37,36,39.6,,20.54,0.2911,0.0
1951,2.66,0.2279,0.01932,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT
EV,EDDC1F,0,0.001,DHNXV00.05ET,Car,123,,DDC1F1,A,Automatic,1,Y,F,"2-Wheel Drive,
Front",1,No gear ratio < 1,3625,3.69,114.4,1,Not eqipped,DHNX10020735,No,81,Charge
Depleting
UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,19.06,0.407,0.01499,6.11,0.2959,0.01602,,,N,,,N,
No averaging

2013,Honda,HNX,HONDA,FIT
EV,EDDC1F,0,0.001,DHNXV00.05ET,Car,123,,DDC1F1,A,Automatic,1,Y,F,"2-Wheel Drive,
Front",1,No gear ratio < 1,3625,3.69,114.4,1,Not eqipped,DHNX10020736,No,84,Charge
Depleting
Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,19.06,0.407,0.01499,6.11,0.2959,0.01602,,,N,,
,N,No averaging

2013,Honda,HNX,HONDA,FIT
EV,EDDC1F,1,0.001,DHNXV00.05ET,Car,123,,DDC1F1,A,Automatic,1,Y,F,"2-Wheel Drive,
Front",1,No gear ratio < 1,3625,3.69,114.4,1,Not eqipped,DHNX10020753,No,81,Charge
Depleting
UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,19.06,0.407,0.01499,6.11,0.2959,0.01602,,,N,,,N,
No averaging

2013,Honda,HNX,HONDA,FIT
EV,EDDC1F,1,0.001,DHNXV00.05ET,Car,123,,DDC1F1,A,Automatic,1,Y,F,"2-Wheel Drive,
Front",1,No gear ratio < 1,3625,3.69,114.4,1,Not eqipped,DHNX10020754,No,84,Charge
Depleting
Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,19.06,0.407,0.01499,6.11,0.2959,0.01602,,,N,,
,N,No averaging

2013,Honda,HNX,HONDA,FIT SPORT,EBP31A,0,1.5,BHNXV01.5KB2,Car,117,4,BP31A1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.56,36.7,1,Not
eqipped,BHNX10011217,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02247,0.442,247.68,0.0078,,0.00331,,35.7,MPG,34,35.3,38.1,,23.95,0.3121,
0.01954,4.77,0.3615,0.01789,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT SPORT,EBP31A,0,1.5,BHNXV01.5KB2,Car,117,4,BP31A1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,4.56,36.7,1,Not
eqipped,BHNX10011218,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01044,0.168,186.29,0.0066,,0.00203,,47.7,MPG,,,,,23.95,0.3121,0.01954,4.
77,0.3615,0.01789,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT
SPORT,EBP31M,0,1.5,BHNXV01.5KB2,Car,117,4,BP31M1,M,Manual,5,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,2875,4.62,48.9,1,Not eqipped,BHNX10011211,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01652,0.393,246.56,0.0097,,0.00305,,35.8,MPG,35.6,35.1,37.8,,23.7,0.3245
,0.01992,6.16,0.2834,0.01932,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,FIT
SPORT,EBP31M,0,1.5,BHNXV01.5KB2,Car,117,4,BP31M1,M,Manual,5,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,2875,4.62,48.9,1,Not
eqipped,BHNX10011212,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00766,0.103,191.53,0.0038,,0.00242,,46.2,MPG,,,,,23.7,0.3245,0.01992,6.1
6,0.2834,0.01932,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ1C,2,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016179,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00749,0.137,159.6,0.0061,,0.00147,,55.3,MPG,50.7,59.1,53.9,58,28.03,-
0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ1C,2,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016180,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00524,0.074,139.73,0.0018,,0.00123,,63.2,MPG,,,,,28.03,-
0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ1C,3,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016181,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00752,0.086,159.31,0.0084,,0.00146,,55.6,MPG,50.5,58.6,54.5,58.3,28.03,-
0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ1C,3,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016182,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00235,0.042,139.99,0.0008,,0.00072,,63.2,MPG,,,,,28.03,-
0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ2C,2,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016187,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00363,0.052,158.94,0.0067,,0.00078,,55.7,MPG,50.6,57.6,55.2,58.8,28.03,-
0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ2C,2,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016188,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00243,0.064,139.11,0.0014,,0.00062,,63.6,MPG,,,,,28.03,-
0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ2C,3,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016189,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0041,0.056,159.7,0.0083,,0.00079,,55.3,MPG,51.2,56.6,54.9,58.3,28.03,-
0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
DX/LX,ECBJ2C,3,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not
eqipped,CHNX10016190,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00111,0.072,139.34,0.0013,,0.00031,,63.6,MPG,,,,,28.03,-
0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ1C,0,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,SCV,Selectable Continuously Variable (e.g.
CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3125,4.2,32.9,1,Not eqipped,CHNX10016109,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.00705,0.082,159.39,0.0073,,0.00109,,55.6,MPG,50.3,57.7,54.4,59.2,28.03,-

0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ1C,0,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016110,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00303,0.035,139.33,0.001,,0.00093,,63.7,MPG,,,,,28.03,-0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ1C,1,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016177,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00698,0.085,159.2,0.0059,,0.00153,,55.6,MPG,50.8,58.1,54.5,58.5,28.03,-0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ1C,1,1.3,CHNXV01.34F2,Car,98,4,CBJ1C1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016178,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00276,0.034,138.54,0.001,,0.00068,,63.7,MPG,,,,,28.03,-0.0015,0.01805,6.93,0.2309,0.01358,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ2C,0,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016183,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00355,0.06,159.32,0.0071,,0.00074,,55.6,MPG,51.2,57.5,54.9,58.2,28.03,-0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ2C,0,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016184,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00143,0.069,140.07,0.001,,0.00043,,63.2,MPG,,,,,28.03,-0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ2C,1,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016185,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00406,0.065,159.45,0.0067,,0.0009,,55.6,MPG,51.2,57.6,55.2,57.6,28.03,-0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,INSIGHT
EX,ECBJ2C,1,1.3,CHNXV01.56D2,Car,98,4,CBJ1C2,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.2,32.9,1,Not eqipped,CHNX10016186,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00132,0.066,139.36,0.0016,,0.00043,,63.6,MPG,,,,,28.03,-0.0015,0.01805,5.55,0.2274,0.01398,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,ODYSSEY
LX/EX/EXL,EBV01A,0,3.5,BHNXT03.5F13,Truck,248,6,BV01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.31,32.2,1,Not eqipped,BHNX10010471,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01676,0.146,401.29,0.0138,,0.00275,,22.3,MPG,22,21.1,25.2,,32.73,0.3247,0.02344,15.64,0.037,0.02474,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,ODYSSEY
LX/EX/EXL,EBV01A,0,3.5,BHNXT03.5F13,Truck,248,6,BV01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.31,32.2,1,Not eqipped,BHNX10010472,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0031,0.065,233.28,0.003,,0.00077,,38.3,MPG,,,,,32.73,0.3247,0.02344,15.64,0.037,0.02474,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,ODYSSEY TOURING/TOURING-TE,EBV02A,1,3.5,BHNXT03.5F13,Truck,248,6,BV01A1,A,Automatic,6,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,4750,4.25,28.6,1,Not eqipped,BHNX10010473,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01552,0.166,371.69,0.0109,,0.00258,,24,MPG,23.4,22.9,27.1,,31.41,0.5813,0.01965,6.02,0.4719,0.01996,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,ODYSSEY TOURING/TOURING-TE,EBV02A,1,3.5,BHNXT03.5F13,Truck,248,6,BV01A1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.25,28.6,1,Not eqipped,BHNX10010474,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00239,0.059,229.58,0.0038,,0.00073,,38.8,MPG,,,,,31.41,0.5813,0.01965,6.02,0.4719,0.01996,,,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 2WD EX,ECN03A,1,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.31,31.9,1,Not eqipped,CHNX10015939,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00186,0.046,250,0.0047,,0.0006,,35.4,MPG,,,,,24.01,0.5114,0.0263,8.09,0.2848,0.0271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 2WD EX,ECN03A,1,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.31,31.9,1,Not eqipped,CHNX10015940,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01127,0.174,391.89,0.0154,,0.00264,,22.6,MPG,21.9,22,24.4,,24.01,0.5114,0.0263,8.09,0.2848,0.0271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 2WD TOURING,ECN03A,0,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.31,31.9,1,Not eqipped,CHNX10015937,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01107,0.166,401.08,0.0126,,0.00249,,22.1,MPG,21.4,21.4,24.2,,25.08,0.5181,0.02632,12.47,0.1057,0.02883,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 2WD TOURING,ECN03A,0,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.31,31.9,1,Not eqipped,CHNX10015938,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00179,0.055,250.41,0.0065,,0.00076,,35.4,MPG,,,,,25.08,0.5181,0.02632,12.47,0.1057,0.02883,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 4WD EXL,ECN01A,1,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.31,31.9,1,Not eqipped,CHNX10015935,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01281,0.18,408.1,0.0154,,0.00273,,21.7,MPG,21,21.1,23.6,,24.83,0.9487,0.02211,8.6,0.5072,0.02447,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 4WD EXL,ECN01A,1,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.31,31.9,1,Not eqipped,CHNX10015936,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00352,0.074,261.09,0.0126,,0.00103,,34,MPG,,,,,24.83,0.9487,0.02211,8.6,0.5072,0.02447,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 4WD TOURING,ECN01A,0,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.31,31.9,1,Not eqipped,CHNX10015933,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01327,0.212,420.17,0.0124,,0.00238,,21.1,MPG,20.1,20.5,23.1,,25.32,0.9518,0.02212,8.33,0.4548,0.02416,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,PILOT 4WD TOURING,ECN01A,0,3.5,CHNXV03.7JB3,Car,250,6,CN01A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.31,31.9,1,Not eqipped,CHNX10015934,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00264,0.08,263.25,0.0085,,0.00084,,33.7,MPG,,,,,25.32,0.9518,0.02212,8.33,0.4548,0.02416,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,RIDGELINE,ECJE1A,0,3.5,CHNXT03.5T64,Truck,250,6,CJE1A1,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.53,28.6,1,Not eqipped,CHNX10016520,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.01255,0.181,459.96,0.0102,,0.00189,,19.2,MPG,18.6,18.7,21,,33.68,0.7413,
0.02989,7.05,0.3215,0.03203,TWC,Three-way catalyst,N,,,N,No averaging

2013,Honda,HNX,HONDA,RIDGELINE,ECJE1A,0,3.5,CHNXT03.5T64,Truck,250,6,CJE1A1,A,Automatic
,5,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.53,28.6,1,Not
eqipped,CHNX10016521,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00089,0.118,307.4,0.0041,,0.00051,,28.8,MPG,,,,,33.68,0.7413,0.02989,7.0
5,0.3215,0.03203,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU05A1,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,2.94,33.5,1,Not
eqipped,CHYX91000856,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0166122,0.1348821,240.0891527,0.0195748,,0.0023167,,37.1,MPG,34.8948926,
35.8211628,41.6998317,,18.95,0.225,0.01564,6.65,-0.1946,0.01899,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU05A1,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,2.94,33.5,1,Not
eqipped,CHYX91000857,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0192652,2.9693335,257.0871536,0.0326655,,0.002749,,34,MPG,21.5954621,40
.7341021,,,18.95,0.225,0.01564,6.65,-0.1946,0.01899,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU05A1,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,2.94,33.5,1,Not
eqipped,CHYX91000858,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034916,0.0693502,155.3398586,0.008365,,0.0004433,,57.4,MPG,,,,,18.95,0.
225,0.01564,6.65,-0.1946,0.01899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU05A2,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.94,33.5,1,Not
eqipped,CHYX10012595,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0148,0.1613,224.94,0.0114,,,,39.4,MPG,36.9641,37.7971,44.6036,,18.34,0.2
85,0.01414,6.95,-0.1468,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU05A2,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,2.94,33.5,1,Not
eqipped,CHYX10012603,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0039,0.1034,152.15,0.0049,,,,58.4,MPG,,,,,18.34,0.285,0.01414,6.95,-
0.1468,0.01737,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU08A1,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,2750,3.65,41.5,2,"Equipped, not shifted by SIL",CHYX10012607,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.013,0.2067,228.14,0.0105,,,,38.9,MPG,38.2769,36.985,43.5086,,18.15,0.215
,0.01542,4.58,0.0904,0.01506,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Accent,RB1R6GU08A1,0,1.6,CHYXV01.6RW5,Car,138,4,G4FD-
MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,2750,3.65,41.5,2,"Equipped, not shifted by SIL",CHYX10012608,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012,0.0341,157.05,0.0044,,,,56.6,MPG,,,,,18.15,0.215,0.01542,4.58,0.090
4,0.01506,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,AZERA,HG2L3AU55B5,0,3.3,DHYXV03.31JE,Car,293,6,G6DH-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.04,30.8,1,Not
eqipped,DHYX10021122,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013,0.0374,215.4175,0.0081,,0.001,,41.6,MPG,,,,,29.77,0.1982,0.01734,5.
525,-0.08727,0.01925,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,AZERA,HG2L3AU55B5,0,3.3,DHYXV03.31JE,Car,293,6,G6DH-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.04,30.8,1,Not
eqipped,DHYX10021125,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0274,0.2105,348.8311,0.0028,,0.00315,,25.6,MPG,24.5567,24.75,28.2678,,29
.77,0.1982,0.01734,5.525,-0.08727,0.01925,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,AZERA,HG2L3AU55B5,1,3.3,DHYXV03.31JE,Car,293,6,G6DH-
AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.04,30.9,1,Not
eqipped,DHYX10021123,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0144,0.1334,347.8254,0.003,,0.00297,,25.7,MPG,,,,,28.537,0.19241,0.01663

,9.506,-0.2661,0.01901,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,AZERA,HG2L3AU55B5,1,3.3,DHYXV03.31JE,Car,293,6,G6DH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.04,30.9,1,Not eqipped,DHYX10021124,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011,0.0314,214.4257,0.0085,,0.00098,,41.8,MPG,,,,,28.537,0.19241,0.0166 3,9.506,-0.2661,0.01901,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GF29A1,0,1.8,BHYXV01.8SW5,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,BHYX10011437,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0233,0.2051,233.33,0.0204,,0.0025,,38.1,MPG,36.2087,36.2225,43.9451,,20.622,0.295,0.01433,9.116,-0.054,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GF29A1,0,1.8,BHYXV01.8SW5,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,BHYX10011438,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0068,0.1425,156.68,0.0072,,,,56.5,MPG,,,,,20.622,0.295,0.01433,9.116,-0.054,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GF30A1,0,1.8,BHYXV01.8SW5,Car,148,4,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,2.74,24.3,5,"Equipped, shifted by survey schedule",BHYX10011439,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0185,0.436,231.66,0.0306,,,,38.2,MPG,,,,,19.404,0.2624,0.01374,8.478,-0.0508,0.01581,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GF30A1,0,1.8,BHYXV01.8SW5,Car,148,4,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,2.74,24.3,5,"Equipped, shifted by survey schedule",BHYX10011440,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006,0.2024,157.02,0.0046,,,,56.5,MPG,,,,,19.404,0.2624,0.01374,8.478,-0.0508,0.01581,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GU91A1,0,1.8,BHYXV01.8SPC,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,BHYX10011441,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0038,0.2996,236.92,0.0055,,,,37.4,MPG,35.8738,34.8911,41.8551,,20.622,0.295,0.01433,9.116,-0.054,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA,MD1N8GU91A1,0,1.8,BHYXV01.8SPC,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,BHYX10011442,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006,0.0703,157.01,0.0026,,,,56.5,MPG,,,,,20.622,0.295,0.01433,9.116,-0.054,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA BLUE,MD3N8GF73A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX91001229,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0224288,0.3992118,233.1976797,0.0240269,,0.0035837,0.01,38.1,MPG,35.6260462,37.1194417,42.3134798,,19.612,0.1041,0.0166,2.682,0.161,0.014,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA BLUE,MD3N8GF73A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX91001230,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004676,0.066976,156.1022881,0.0031246,,0.0005592,0.01,57,MPG,,,,,19.612,0.1041,0.0166,2.682,0.161,0.014,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA BLUE,MD3N8GU75A1,0,1.8,DHYXV01.8SPC,Car,145,,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX10019352,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0009,0.1402,156.1631,0.0034,,,,57.2,MPG,,,,,19.612,0.1041,0.0166,3.754,-0.207,0.019,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA BLUE,MD3N8GU75A1,0,1.8,DHYXV01.8SPC,Car,145,,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX10019353,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0038,0.285,226.1231,0.0044,,0.0007,,39.5,MPG,36.4604,38.7272,43.0264,,19.612,0.1041,0.0166,3.754,-0.207,0.019,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GF01A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX91001247,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0180329,0.1152808,247.1663343,0.0313052,,0.00278,0.01,36,MPG,34.6610568,34.5557302,40.3236099,,19.782,0.1039,0.0167,4.267,-0.1357,0.01679,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GF01A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX91001248,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008162,0.1099416,161.8017973,0.0025922,,0.0006049,0.01,54.9,MPG,,,,,19.782,0.1039,0.0167,4.267,-0.1357,0.01679,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GF02A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.33,38.4,5,"Equipped, shifted by survey schedule",DHYX10019607,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0252,0.1515,235.2245,0.0169,,,,38,MPG,,,,,19.287,0.1013,0.0163,4.432,-0.1371,0.01356,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GF02A1,0,1.8,DHYXV01.8SW5,Car,148,,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.33,38.4,5,"Equipped, shifted by survey schedule",DHYX10019608,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.0411,158.1352,0.0053,,,,56.6,MPG,,,,,19.287,0.1013,0.0163,4.432,-0.1371,0.01356,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GU81A1,0,1.8,DHYXV01.8SPC,Car,145,,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX10019609,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0035,0.265,249.1023,0.0043,,,,35.9,MPG,,,,,19.782,0.1039,0.0167,3.984,-0.1472,0.01796,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA COUPE,JK2N8GU81A1,0,1.8,DHYXV01.8SPC,Car,145,,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.07,33.2,1,Not eqipped,DHYX10019610,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004,0.082,157.0869,0.0029,,,,56.9,MPG,,,,,19.782,0.1039,0.0167,3.984,-0.1472,0.01796,,,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA GT,GD3N8GU87B1,0,1.8,DHYXV01.8BDP,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DHYX10020798,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0036,0.2786,249.7636,0.0046,,0.0003,,35.7,MPG,,,,,20.185,0.1004,0.0171,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA GT,GD3N8GU87B1,0,1.8,DHYXV01.8BDP,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DHYX10020800,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0003,0.1028,162.86,0.0043,,,,54.8,MPG,,,,,20.185,0.1004,0.0171,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA GT,GD3N8GU87B1,1,1.8,DHYXV01.8BDP,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DHYX10020799,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0037,0.2833,253.1343,0.0044,,0.0003,,35.3,MPG,,,,,21.145,0.1024,0.01742,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,ELANTRA GT,GD3N8GU87B1,1,1.8,DHYXV01.8BDP,Car,145,4,G4NB-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DHYX10020801,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0003,0.1014,164.9616,0.0051,,,,54.1,MPG,,,,,21.145,0.1024,0.01742,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,EQUUS,VI2T0GU73A2,0,5,CHYXV05.0VW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.54,25.9,1,Not eqipped,CHYX10012563,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0169,0.1889,455.2976,0.0147,,0.00446,,19.6,MPG,19.8,18.3,22.7,,35.219,0.561,0.016,0.917,0.373,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,EQUUS,VI2T0GU73A2,0,5,CHYXV05.0VW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.54,25.9,1,Not

eqipped,CHYX10012869,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025,0.042,272.49,0.0013,,,,32.9,MPG,,,,,35.219,0.561,0.016,0.917,0.373,
0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,EQUUS,VI2T0GU73A2,1,5,CHYXV05.0VW5,Car,429,8,G8BE-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.54,25.9,1,Not
eqipped,CHYX10014688,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0124,0.1733,479.65,0.0113,,0.002,,18.6,MPG,,,,,35.219,0.561,0.016,0.917,
0.373,0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,EQUUS,VI2T0GU73A2,1,5,CHYXV05.0VW5,Car,429,8,G8BE-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.54,25.9,1,Not
eqipped,CHYX10014689,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022,0.0227,282.8,0.0024,,,,31.6,MPG,,,,,35.219,0.561,0.016,0.917,0.373,
0.017,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS,BH1L8AU62B2,0,3.8,CHYXV03.8DW5,Car,333,6,G6DJ-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,28.2,1,Not
eqipped,CHYX91000880,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013528,0.005,221.6,0.0090429,,0.001,0.01,40.1,MPG,,,,,30.422,0.10142,0.
01942,8.207,-0.27,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS,BH1L8AU62B2,0,3.8,CHYXV03.8DW5,Car,333,6,G6DJ-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,28.2,1,Not
eqipped,CHYX91000890,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0146032,0.1775515,378.8373516,0.017806,,0.0031737,,23.5,MPG,23.4330721,2
1.9307257,27.1957664,,30.422,0.10142,0.01942,8.207,-0.27,0.022,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3F0U29A1,0,2,DHYXV02.0JM5,Car,274,4,G4KF-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,4.18,31,1,Not
eqipped,DHYX10017359,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0191,0.2037,355.1541,0.017,,0.0039,,25.2,MPG,25,23.3,29.7,,36.2,0.3123,0
.01268,10.982,-0.57924,0.01992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3F0U29A1,0,2,DHYXV02.0JM5,Car,274,4,G4KF-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,4.18,31,1,Not
eqipped,DHYX10017360,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014,0.0577,207.1486,0.0047,,,,43.2,MPG,,,,,36.2,0.3123,0.01268,10.982,-
0.57924,0.01992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3F0U30A1,0,2,DHYXV02.0JM5,Car,274,4,G4KF-
MC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,38.5,1,Not
eqipped,DHYX10017361,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0149,0.1861,340.8301,0.0125,,0.0034,,26.2,MPG,25.1,25.3,29.4,,33.8,0.287
6,0.01301,16.7,-0.2108,0.01563,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3F0U30A1,0,2,DHYXV02.0JM5,Car,274,4,G4KF-
MC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,38.5,1,Not
eqipped,DHYX10017362,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0018,0.0519,214.3614,0.0037,,,,41.8,MPG,,,,,33.8,0.2876,0.01301,16.7,-
0.2108,0.01563,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3L8AU16B2,0,3.8,DHYXV03.8KW5,Car,348,6,G6DJ-
MC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.54,36.4,1,Not
eqipped,DHYX10017365,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0177,0.2742,391.2947,0.0091,,0.0029,,22.8,MPG,23.5,21,26.6,,34.203,0.396
81,0.01358,17.893,-0.061,0.016,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3L8AU16B2,0,3.8,DHYXV03.8KW5,Car,348,6,G6DJ-
MC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.54,36.4,1,Not
eqipped,DHYX10017366,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014,0.0825,235.5582,0.0034,,,,37.9,MPG,,,,,34.203,0.39681,0.01358,17.89
3,-0.061,0.016,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3L8AU33B2,0,3.8,DHYXV03.8KW5,Car,348,6,G6DJ-
AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,4.18,31,1,Not
eqipped,DHYX10017363,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0218,0.5347,385.6097,0.0032,,0.0035,,23.1,MPG,22.5,21.6,27.5,,36.804,0.3
7182,0.01357,13.055,-0.35153,0.0191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS COUPE,BK3L8AU33B2,0,3.8,DHYXV03.8KW5,Car,348,6,G6DJ-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,4.18,31,1,Not eqipped,DHYX10017364,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0033,0.0447,225.4489,0.0072,,,,39.7,MPG,,,,,36.804,0.37182,0.01357,13.055,-0.35153,0.0191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS R SPEC,BH2T0GU33A2,0,5,CHYXV05.0BW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.54,26.2,1,Not eqipped,CHYX10012329,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0325,0.1159,523.8,0.0001,,,,16.9,MPG,,,,,34.672,0.6149,0.01546,2.907,0.539,0.0162,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS R SPEC,BH2T0GU33A2,0,5,CHYXV05.0BW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.54,26.2,1,Not eqipped,CHYX10012330,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.1535,1.2115,483.74,,,,,18,MPG,14.8,17.5,22.6,,38.139,0.67639,0.017006,3.198,0.59292,0.017864,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS R SPEC,BH2T0GU33A2,0,5,CHYXV05.0BW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.54,26.2,1,Not eqipped,CHYX91000875,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0035955,0.047,262.2,0.0038004,,0.001,0.01,34,MPG,,,,,34.672,0.6149,0.01546,2.907,0.539,0.0162,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS R SPEC,BH2T0GU33A2,0,5,CHYXV05.0BW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.54,26.2,1,Not eqipped,CHYX91000876,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0127828,0.1346007,395.3347928,0.0088314,,0.002553,0.01,22.5,MPG,14.4919604,26.7468828,,,34.672,0.6149,0.01546,2.907,0.539,0.0162,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,GENESIS R SPEC,BH2T0GU33A2,0,5,CHYXV05.0BW5,Car,429,8,G8BE-AC,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.54,26.2,1,Not eqipped,CHYX91000877,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0403815,0.2908375,447.7599981,0.0087875,,0.0074818,0.01,19.9,MPG,19.7683229,18.5740232,22.9411622,,34.672,0.6149,0.01546,2.907,0.539,0.0162,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,AN3F0HU17A1,0,2,DHYXV02.01TE,Car,265,4,G4KH-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.51,32.3,1,Not eqipped,DHYX91001352,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0180374,0.183823,354.7265997,0.0177976,,0.004916,0.01,25.1,MPG,22.4131537,25.0092148,27.7035315,,26.347,0.40519,0.021578,10.836,-1.15422,0.036411,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,AN3F0HU17A1,0,2,DHYXV02.01TE,Car,265,4,G4KH-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.51,32.3,1,Not eqipped,DHYX91001353,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00909,0.070317,238.0813033,0.0052035,,0.0029799,0.01,37.4,MPG,,,,,26.347,0.40519,0.021578,10.836,-1.15422,0.036411,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,AN3F0HU21A1,0,2,DHYXV02.01TE,Car,265,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.51,32.3,1,Not eqipped,DHYX10020602,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0229,0.1481,333.0104,0.016,,,,26.8,MPG,,,,,26.336,-0.21642,0.027571,11.165,-1.15067,0.03683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,AN3F0HU21A1,0,2,DHYXV02.01TE,Car,265,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.51,32.3,1,Not eqipped,DHYX10020603,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.002,0.09,207.7503,0.002,,,,43,MPG,,,,,26.336,-0.21642,0.027571,11.165,-1.15067,0.03683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,DM3F4GU27A1,0,2.4,DHYXV02.41UE,Car,191,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.65,33.9,1,Not eqipped,DHYX10020619,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022,0.0853,194.38,0.0021,,,,46.1,MPG,,,,,27.305,-0.2087,0.0256,6.175,-0.6899,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,DM3F4GU27A1,0,2.4,DHYXV02.41UE,Car,191,4,G4KJ-

AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.65,33.9,1,Not eqipped,DHYX10020621,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0154,0.2556,325.2447,0.0105,,,,27.5,MPG,,,,,27.305,-0.2087,0.0256,6.175,-0.6899,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,DM3F4GU29B1,0,2.4,DHYXV02.41UE,Car,191,4,G4KJ-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.65,33.6,1,Not eqipped,DHYX10020615,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0155,0.2901,344.3827,0.0101,,0.0024,,26,MPG,24.0632,25.1717,29.3001,,23.19,0.5172,0.01862,5.73,0.0242,0.02269,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,Hyundai,Santa Fe Sport,DM3F4GU29B1,0,2.4,DHYXV02.41UE,Car,191,4,G4KJ-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.65,33.6,1,Not eqipped,DHYX10020616,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004,0.12,225.2679,0.0125,,,,39.7,MPG,,,,,23.19,0.5172,0.01862,5.73,0.0242,0.02269,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU20A1,0,2.4,BHYXV02.4YW5,Car,198,4,G4KJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.25,35.9,2,"Equipped, not shifted by SIL",BHYX10006212,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0168,0.1927,295.9736,0.0118,,0.0024,,30.2,MPG,,,,,26.49,0.5064,0.0103,11.07,0.1448,0.01239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU20A1,0,2.4,BHYXV02.4YW5,Car,198,4,G4KJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.25,35.9,2,"Equipped, not shifted by SIL",BHYX10006213,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0084,0.0978,183.2111,0.0012,,,,48.9,MPG,,,,,26.49,0.5064,0.0103,11.07,0.1448,0.01239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU37A1,0,2.4,BHYXV02.4YPC,Car,190,4,G4KJ-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,BHYX10008187,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0045,0.2544,294.0213,0.005,,0.0004,,30.3,MPG,29.43,28.93,33.78,,29.45,0.5673,0.0101,7.9,0.392,0.0106,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU37A1,0,2.4,BHYXV02.4YPC,Car,190,4,G4KJ-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,BHYX10008188,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.0355,182.0278,0.0016,,,,49,MPG,,,,,29.45,0.5673,0.0101,7.9,0.392,0.0106,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU40A1,0,2.4,CHYXV02.4YW5,Car,198,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,CHYX10014240,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0197,0.2272,296.0835,0.0129,,0.0027,,30.2,MPG,28.3,29.1,34.4,,29.45,0.5673,0.0101,14.33,0.0534,0.0151,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF0F4AU40A1,0,2.4,CHYXV02.4YW5,Car,198,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,CHYX10014241,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0098,0.2096,182.1869,0.009,,,,49,MPG,,,,,29.45,0.5673,0.0101,14.33,0.0534,0.0151,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF1F0HU20A1,0,2,CHYXV02.0XW5,Car,274,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.89,30.4,1,Not eqipped,CHYX10014242,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0243,0.2911,314.1978,0.0245,,0.0038,,28.4,MPG,25.2,27.8,33.2,,30.336,0.57524,0.01028,17.696,-0.00596,0.01512,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,SONATA,YF1F0HU20A1,0,2,CHYXV02.0XW5,Car,274,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.89,30.4,1,Not eqipped,CHYX10014243,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0062,0.1481,188.0764,0.0039,,,,47.5,MPG,,,,,30.336,0.57524,0.01028,17.696,-0.00596,0.01512,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM0F0GU20B1,0,2,BHYXT02.0NW5,Truck,165,4,G4KD-MC,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.53,47.1,1,Not eqipped,BHYX10006810,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0154,0.1524,346.31,0.0148,,,,25.8,MPG,25.94,24.31,28.81,,25.701,0.3078,0

.02354,8.61,0.0729,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM0F0GU20B1,0,2,BHYXT02.0NW5,Truck,165,4,G4KD-MC,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.53,47.1,1,Not eqipped,BHYX10006811,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0043,0.0465,236.99,0.0036,,,,37.6,MPG,,,,,25.701,0.3078,0.02354,8.61,0.0729,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM0F0GU23B1,0,2,BHYXT02.0NW5,Truck,165,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.65,36.3,1,Not eqipped,BHYX10008770,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0183,0.182,309.62,0.0226,,0.0019,,28.8,MPG,28.2121,27.8094,31.3521,,26.932,0.34,0.02253,4.73,-0.2062,0.0276,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM0F0GU23B1,0,2,BHYXT02.0NW5,Truck,165,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.65,36.3,1,Not eqipped,BHYX10008771,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.0475,207.75,0.0074,,,,42.9,MPG,,,,,26.932,0.34,0.02253,4.73,-0.2062,0.0276,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM1F4GF32A1,0,2.4,BHYXT02.4LW5,Truck,176,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.74,39.2,1,Not eqipped,BHYX10007788,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0151,0.2535,342.3,0.0159,,,,26.1,MPG,26.472,24.3919,29.4385,,25.7,0.3078,0.02354,4.574,-0.1003,0.02521,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM1F4GF32A1,0,2.4,BHYXT02.4LW5,Truck,176,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.74,39.2,1,Not eqipped,BHYX10009011,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0081,0.1351,221.36,0.0037,,,,40.3,MPG,,,,,25.7,0.3078,0.02354,4.574,-0.1003,0.02521,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM1F4GF34A1,0,2.4,BHYXT02.4LW5,Truck,176,4,G4KE-MC,M,Manual,6,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.74,39.2,1,Not eqipped,BHYX10007784,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.016,0.2646,362.19,0.012,,,,24.6,MPG,24.7073,23.0509,28.0522,,28.27,0.3594,0.02667,8.272,-0.03797,0.02869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM1F4GF34A1,0,2.4,BHYXT02.4LW5,Truck,176,4,G4KE-MC,M,Manual,6,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.74,39.2,1,Not eqipped,BHYX10007785,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0021,0.098,240.21,0.0027,,,,37.2,MPG,,,,,28.27,0.3594,0.02667,8.272,-0.03797,0.02869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GF31A1,0,2.4,CHYXT02.4LW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.6,1,Not eqipped,CHYX10014284,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0171,0.2093,323.2637,0.0116,,,,27.7,MPG,,,,,26.521,0.09395,0.02378,5.87,-0.1931,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GF31A1,0,2.4,CHYXT02.4LW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.6,1,Not eqipped,CHYX10014285,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0044,0.0808,200.2003,0.0024,,,,44.7,MPG,,,,,26.521,0.09395,0.02378,5.87,-0.1931,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GF33A1,0,2.4,CHYXT02.4LW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.6,1,Not eqipped,CHYX10014161,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0198,0.2531,342.4909,0.0159,,0.003,,26.1,MPG,24.7063,25.2399,29.2047,,28.599,0.1318,0.02591,11.8,-0.4133,0.03109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GF33A1,0,2.4,CHYXT02.4LW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.6,1,Not eqipped,CHYX10014279,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0042,0.1195,227.7081,0.0025,,,,39.2,MPG,,,,,28.599,0.1318,0.02591,11.8,-0.4133,0.03109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GU41A1,0,2.4,CHYXT02.4LPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.6,1,Not

eqipped,CHYX10014282,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0029,0.2165,322.9614,0.0051,,,,27.7,MPG,,,,,26.521,0.09395,0.02378,5.87,-0.1931,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GU41A1,0,2.4,CHYXT02.4LPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.6,1,Not eqipped,CHYX10014283,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0019,0.0713,200.2749,0.0027,,,,44.7,MPG,,,,,26.521,0.09395,0.02378,5.87,-0.1931,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GU43A1,0,2.4,CHYXT02.4LPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.6,1,Not eqipped,CHYX10014280,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0033,0.2298,340.0702,0.0042,,0.0005,,26.3,MPG,25.0622,25.389,29.3052,,28.599,0.1318,0.02591,11.8,-0.4133,0.03109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,TUCSON,LM2F4GU43A1,0,2.4,CHYXT02.4LPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.6,1,Not eqipped,CHYX10014281,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027,0.0592,229.3935,0.003,,,,39,MPG,,,,,28.599,0.1318,0.02591,11.8,-0.4133,0.03109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS1R6AU26A1,0,1.6,CHYXV01.6AW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.27,41.2,5,"Equipped, shifted by survey schedule",CHYX10015823,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0164,0.2539,247.48,0.0164,,,,36.1,MPG,35.8341,34.2604,40.2236,,21.163,0.0919,0.01644,3.95,-0.2079,0.01863,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS1R6AU26A1,0,1.6,CHYXV01.6AW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.27,41.2,5,"Equipped, shifted by survey schedule",CHYX10015824,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0076,0.2074,157.82,0.0034,,,,56.5,MPG,,,,,21.163,0.0919,0.01644,3.95,-0.2079,0.01863,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU39A1,1,1.6,DHYXV01.61CE,Car,201,4,G4FJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.32,35.7,1,Not eqipped,DHYX91001386,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006255,0.08,171.1,0.0083895,,0,0.01,52,MPG,,,,,25.328,0.12852,0.016216,0.15,-0.5122,0.02221,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU39A1,1,1.6,DHYXV01.61CE,Car,201,4,G4FJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.32,35.7,1,Not eqipped,DHYX91001387,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0275322,0.3147359,277.4793125,0.0239724,,0.0053268,0.01,32.1,MPG,29.2506611,32.002052,34.5350712,,25.328,0.12852,0.016216,0.15,-0.5122,0.02221,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU39A1,1,1.6,DHYXV01.61CE,Car,201,4,G4FJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.32,35.7,1,Not eqipped,DHYX91001388,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0086978,0.8711539,285.1426296,0.0071196,,0.0026122,0.01,31.1,MPG,20.2125399,36.6896652,,,25.328,0.12852,0.016216,0.15,-0.5122,0.02221,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU39A1,1,1.6,DHYXV01.61CE,Car,201,4,G4FJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.32,35.7,1,Not eqipped,DHYX91001406,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0091559,0.9738927,284.0465092,0.00684,,0.0030898,0.01,31.2,MPG,19.9422208,37.1393583,,,25.328,0.12852,0.016216,0.15,-0.5122,0.02221,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU52A1,0,1.6,DHYXV01.61CE,Car,201,4,G4FJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.47,39.4,5,"Equipped, shifted by survey schedule",DHYX10019334,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0141,0.3152,270.8117,0.0164,,0.0013,,32.9,MPG,32.6348,32.2664,34.2343,,24.675,0.10382,0.016325,5.721,-0.25742,0.01776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU52A1,0,1.6,DHYXV01.61CE,Car,201,4,G4FJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.47,39.4,5,"Equipped, shifted by survey schedule",DHYX10019335,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011,0.0923,167.2334,0.0042,,,,53.5,MPG,,,,,24.675,0.10382,0.016325,5.721,-0.25742,0.01776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Hyundai,HYX,HYUNDAI,Veloster,FS3R6AU52A1,0,1.6,DHYXV01.61CE,Car,201,4,G4FJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.47,39.4,5,"Equipped, shifted by survey schedule",DHYX10021132,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0115,1.3213,277.146,0.0129,,,,32,MPG,18.2137,40.7011,,,24.675,0.10382,0.016325,5.721,-0.25742,0.01776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF,TGT4V016,0,2,DJCXV02.0FTN,Car,240,4,2.0XFGTDI-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.73,23.7,1,Not eqipped,DJCX10023083,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.008,0,459.7,0.043,0.003,,,19.4,MPG,,,,,36.91,0.3681,0.017944,0.899,0.492,0.0144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF,TGT4V016,0,2,DJCXV02.0FTN,Car,240,4,2.0XFGTDI-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.73,23.7,1,Not eqipped,DJCX10023084,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.00993,0.593,335.98,0.00669,0.001,,,26.4,MPG,15.632,32.859,,,36.91,0.3681,0.017944,0.899,0.492,0.0144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF,TGT4V016,0,2,DJCXV02.0FTN,Car,240,4,2.0XFGTDI-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.73,23.7,1,Not eqipped,DJCX10023086,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01607,0.1839,369.06,0.02954,0.002,0.00365,,24.1,MPG,24.227,22.669,27.285,,36.91,0.3681,0.017944,0.899,0.492,0.0144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF,TGT4V016,0,2,DJCXV02.0FTN,Car,240,4,2.0XFGTDI-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.73,23.7,1,Not eqipped,DJCX10023087,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00164,0.0231,222.23,0.00376,,0.00164,,40.1,MPG,,,,,36.91,0.3681,0.017944,0.899,0.492,0.0144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF,TGT4V016,0,2,DJCXV02.0FTN,Car,240,4,2.0XFGTDI-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.73,23.7,1,Not eqipped,DJCX10023089,No,11,Cold CO,61,Tier 2 Cert Gasoline,FTP,0.2285,0.964,443.03,0.0155,,,,20,MPG,16.8457,19.8267,23.6768,,41.01,0.409,0.019938,0.899,0.492,0.0144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0,TBS6TT11,0,3,DJCXV03.0FSM,Car,340,8,3.0XFSFC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022685,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0108,0.182,407.6,0.01178,0.001,0.00329,,21.8,MPG,21.734,20.286,25.64,,38.55,0.3681,0.017944,-25.5,0.445,0.014556,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0,TBS6TT11,0,3,DJCXV03.0FSM,Car,340,8,3.0XFSFC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022686,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.0944,230.44,0.00184,,0,,38.7,MPG,,,,,38.55,0.3681,0.017944,-25.5,0.445,0.014556,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,0,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022652,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0098,0.2216,445.78,0.0299,,,,19.9,MPG,20.035,18.358,23.832,,36.99,0.6192,0.015791,-29.55,0.9922,0.009852,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,0,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022653,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001,0.0738,247.95,0.00207,,,,35.9,MPG,,,,,36.99,0.6192,0.015791,-29.55,0.9922,0.009852,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,1,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.56,21.4,1,Not eqipped,DJCX10023005,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00686,0.2232,444.29,0.0102,0.001,0.00194,,20,MPG,19.711,18.767,23.261,,45.133,0.6289,0.014173,-27.876,0.9949,0.008617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,1,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.56,21.4,1,Not eqipped,DJCX10023006,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.0944,261.38,0.0019,,0,,34.1,MPG,,,,,45.133,0.6289,0.014173,-27.876,0.9949,0.008617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,2,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.56,21.4,1,Not eqipped,DJCX10023007,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00852,0.1636,448.01,0.0433,0.001,0.00285,,19.9,MPG,19.609,18.41,23.635,,45.706,0.6289,0.014173,-27.427,0.9949,0.008617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF 3.0 AWD,TAV6VP74,2,3,DJCXV03.0FSM,Car,340,8,3.0XFSAC-13,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.56,21.4,1,Not eqipped,DJCX10023008,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00294,0.0807,261.65,0.00251,,0.00212,,34,MPG,,,,,45.706,0.6289,0.014173,-27.427,0.9949,0.008617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF Supercharged,TBSSTT12,0,5,DJCXV05.0FAM,Car,470,8,5.0XFSRC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022613,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01544,0.3257,477.17,0.01198,,,,18.6,MPG,18.008,17.391,22.251,,44.14,0.3849,0.01931,-21.13,0.1557,0.017875,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XF Supercharged,TBSSTT12,0,5,DJCXV05.0FAM,Car,470,8,5.0XFSRC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,22.1,1,Not eqipped,DJCX10022614,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00759,0.0898,278.84,0.00578,,,,31.9,MPG,,,,,44.14,0.3849,0.01931,-21.13,0.1557,0.017875,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJ 3.0,TBS6TT11,1,3,DJCXV03.0FSM,Car,340,8,3.0XFSFC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,21.4,1,Not eqipped,DJCX10022787,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00089,0.1351,234.86,0.00285,,0.00089,,37.9,MPG,,,,,43.13,0.3779,0.016326,-19.78,0.43054,0.014847,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJ 3.0,TBS6TT11,1,3,DJCXV03.0FSM,Car,340,8,3.0XFSFC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.56,21.4,1,Not eqipped,DJCX10022789,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01246,0.2243,396.28,0.01412,0.001,0.00447,,22.5,MPG,23.753,20.428,26.331,,43.13,0.3779,0.016326,-19.78,0.43054,0.014847,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJ Supercharged,KBSSTT35,0,5,DJCXV05.0FAM,Car,470,8,5.0XFSRC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,21.5,1,Not eqipped,DJCX10022396,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00067,0.1015,278.38,0.0023,,,,32,MPG,,,,,38.65,0.607,0.013879,-24.74,0.2669,0.012948,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJ Supercharged,KBSSTT35,0,5,DJCXV05.0FAM,Car,470,8,5.0XFSRC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,21.5,1,Not eqipped,DJCX10022398,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01585,0.2979,483.11,0.01074,0.002,0.0028,,18.4,MPG,18.874,16.734,22.237,,38.65,0.607,0.013879,-24.74,0.2669,0.012948,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJL,KBL8TT36,0,5,DJCXV05.0FAM,Car,385,8,5.0XJHFC-13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.56,21.4,1,Not eqipped,DJCX10022441,No,21,Federal fuel 2-day exhaust (w/can

load),61,Tier 2 Cert
Gasoline,FTP,0.01318,0.6007,457.11,0.00555,,,,19.4,MPG,19.252,18.04,23.003,,43.13,0.377
9,0.016326,-13.52,0.3526,0.013356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XJL,KBL8TT36,0,5,DJCXV05.0FAM,Car,385,8,5.0XJHFC-
13,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4500,2.56,21.4,1,Not eqipped,DJCX10022442,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00106,0.134,258.6,0.00305,,,,34.3,MPG,,,,,43.13,0.3779,0.016326,-
13.52,0.3526,0.013356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,JAGUAR,XK
Convertible,PHATT005,0,5,AJCXV05.0EAL,Car,385,8,5.0XKHFC-10,SA,Semi-Automatic,6,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,29.6,1,Not
eqipped,AJCX10001449,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01431,0.2279,454.5,0.00829,0.00115,,,19.4,MPG,,,,,37.09,0.4269,0.01968,0
.671,0.4161,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,JAGUAR,XK
Convertible,PHATT005,0,5,AJCXV05.0EAL,Car,385,8,5.0XKHFC-10,SA,Semi-Automatic,6,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,4250,3.31,29.6,1,Not
eqipped,AJCX10001450,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01277,0.082,286.27,0.00248,,,,30.9,MPG,,,,,37.09,0.4269,0.01968,0.671,0.
4161,0.01834,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,JAGUAR,XK Coupe,PHATT005,1,5,AJCXV05.0EAL,Car,385,8,5.0XKHFC-
10,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4000,3.31,29.6,1,Not eqipped,AJCX10001451,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.01704,0.2409,446.73,0.00786,0.00196,,,19.7,MPG,,,,,35.52,0.5535,0.0169,0
,0.3328,0.01049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,JAGUAR,XK Coupe,PHATT005,1,5,AJCXV05.0EAL,Car,385,8,5.0XKHFC-
10,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4000,3.31,29.6,1,Not eqipped,AJCX10001452,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01287,0.0758,268.18,0.00233,,,,32.9,MPG,,,,,35.52,0.5535,0.0169,0,0.3328
,0.01049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XK-R,2PCTT008,0,5,BJCXV05.0EAL,Car,510,8,5.0XKSFC-
10,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,3.31,29.6,1,Not eqipped,BJCX10023144,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.02763,0.3683,484.2,0.01824,0.001,0.00716,,18.4,MPG,18.5947,17.0871,21.14
24,,35.89,0.5521,0.017826,7.19,0.246,0.018399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XK-R,2PCTT008,0,5,BJCXV05.0EAL,Car,510,8,5.0XKSFC-
10,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,3.31,29.6,1,Not eqipped,BJCX10023145,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01313,0.1012,296.18,0.01146,,,,30.1,MPG,,,,,35.89,0.5521,0.017826,7.19,0
.246,0.018399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Jaguar Cars,JCX,Jaguar,XK-R,2PCTT008,1,5,BJCXV05.0EAL,Car,510,8,5.0XKSFC-
10,SA,Semi-Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,4250,3.31,29.6,1,Not eqipped,BJCX10023146,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.02378,0.2973,473.59,0.02108,0.001,0.00675,,18.8,MPG,18.9272,17.4908,21.6
072,,34.98,0.5521,0.017415,6.3,0.246,0.017997,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF12B1,0,1.8,DKMXV02.0DCE,Car,148,4,G4NB-
MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3125,4.33,38.4,5,"Equipped, shifted by survey schedule",DKMX10020797,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0209,0.202,244.7425,0.0236,,0.0024,,36.4,MPG,,,,,19.4,0.1014,0.0168,1.34
3,-0.2205,0.02683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF12B1,0,1.8,DKMXV02.0DCE,Car,148,4,G4NB-
MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3125,4.33,38.4,5,"Equipped, shifted by survey
schedule",DKMX10020813,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0079,0.1931,158.9474,0.0099,,,,56.1,MPG,,,,,19.4,0.1014,0.0168,1.343,-
0.2205,0.02683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF12B1,1,1.8,DKMXV02.0DCE,Car,148,4,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,5,"Equipped, shifted by survey schedule",DKMX91001309,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0005693,0.054752,169.1607594,0.0030507,,0.0004781,0.01,52.7,MPG,,,,,19.81,0.1091,0.0171,4.77,-0.072,0.01478,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF12B1,1,1.8,DKMXV02.0DCE,Car,148,4,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,5,"Equipped, shifted by survey schedule",DKMX91001324,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0050194,0.0882262,165.6854271,0.0037908,,0.0019468,0.01,53.6,MPG,,,,,19.81,0.1091,0.0171,4.77,-0.072,0.01478,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF12B1,1,1.8,DKMXV02.0DCE,Car,148,4,G4NB-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,5,"Equipped, shifted by survey schedule",DKMX91001330,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0196384,0.4497917,273.981287,0.0279819,,0.0029243,0.01,32.4,MPG,33.3358564,29.9642187,37.3938281,,19.81,0.1091,0.0171,4.77,-0.072,0.01478,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF13B1,0,1.8,DKMXV02.0DCE,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DKMX10020792,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0229,0.278,246.9071,0.019,,0.0022,,36.1,MPG,,,,,20.185,0.1004,0.0171,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF13B1,0,1.8,DKMXV02.0DCE,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DKMX10020793,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0068,0.1938,160.379,0.0078,,,,55.8,MPG,,,,,20.185,0.1004,0.0171,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF13B1,1,1.8,DKMXV02.0DCE,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DKMX10020795,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0228,0.2832,249.5567,0.0248,,0.0026,,35.7,MPG,,,,,21.145,0.1024,0.01742,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,ELANTRA GT,GD3N8GF13B1,1,1.8,DKMXV02.0DCE,Car,148,4,G4NB-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.27,35.4,1,Not eqipped,DKMX10020796,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0075,0.2142,164.4456,0.0089,,,,54.4,MPG,,,,,21.145,0.1024,0.01742,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,Veloster,FS3R6AU02A5,1,1.6,DKMXV01.6DBE,Car,133,4,G4FD-AMC,AM,Automated Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.76,36.7,1,Not eqipped,DKMX10019362,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.011,0.122,233.0225,0.0151,,0.0009,,38.3,MPG,,,,,22.959,0.09373,0.016396,0.944,-0.07051,0.01635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,Veloster,FS3R6AU02A5,1,1.6,DKMXV01.6DBE,Car,133,4,G4FD-AMC,AM,Automated Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.76,36.7,1,Not eqipped,DKMX10019363,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034,0.0754,152.9629,0.0062,,,,58.4,MPG,,,,,22.959,0.09373,0.016396,0.944,-0.07051,0.01635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,Veloster,FS3R6AU04A5,0,1.6,DKMXV01.6DBE,Car,133,4,G4FD-AMC,AM,Automated Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.76,36.4,1,Not eqipped,DKMX10020940,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0147,0.1643,240.6619,0.0172,,0.0016,,37.1,MPG,,,,,23.739,0.10786,0.016054,1.679,0.09705,0.01464,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,HYUNDAI,Veloster,FS3R6AU04A5,0,1.6,DKMXV01.6DBE,Car,133,4,G4FD-AMC,AM,Automated Manual,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.76,36.4,1,Not eqipped,DKMX10020941,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0044,0.1084,158.5972,0.0085,,,,56.2,MPG,,,,,23.739,0.10786,0.016054,1.67

9,0.09705,0.01464,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU04A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,1,Not eqipped,BKMX10009449,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0191,0.2371,277.14,0.0228,,,,32.2,MPG,30.0513,31.7702,34.7616,,22.2,0.596,0.0114,9.45,0.1192,0.01142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU04A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,1,Not eqipped,BKMX10009450,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.003,0.0314,183.07,0.0112,,,,48.7,MPG,,,,,22.2,0.596,0.0114,9.45,0.1192,0.01142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU17A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10009435,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0033,0.2304,270.86,0.006,,,,32.9,MPG,31.9701,32.0312,35.4831,,23.1,0.61,0.011,5.41,0.331,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU17A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10010677,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0002,0.0523,176.35,0.0018,,,,50.5,MPG,,,,,23.1,0.61,0.011,5.41,0.331,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU19A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10009455,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0222,0.278,270.64,0.01,,,,32.9,MPG,31.4913,32.1326,35.7641,,23.1,0.61,0.011,5.34,0.338,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU19A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10010678,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.0509,176.43,0.003,,,,50.4,MPG,,,,,23.1,0.61,0.011,5.34,0.338,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU21A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.2,1,Not eqipped,BKMX10010705,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0044,0.1418,275.51,0.0077,,,,32.2,MPG,30.43,31.89,34.42,,24.696,0.6271,0.0116,7.651,0.389,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU21A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.2,1,Not eqipped,BKMX10010706,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.0122,180.7,0.0015,,,,49.1,MPG,,,,,24.696,0.6271,0.0116,7.651,0.389,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU23A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.2,1,Not eqipped,BKMX91000594,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029914,0.0592621,188.3219419,0.002761,,0.0002573,,47.2,MPG,,,,,24.696,0.6271,0.0116,8.227,0.385,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU23A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.2,1,Not eqipped,BKMX91000608,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0282436,0.1855095,282.3261936,0.0081246,,0.0041775,,31.5,MPG,30.1240622,30.346946,34.8819291,,24.696,0.6271,0.0116,8.227,0.385,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F0GU23A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.2,1,Not eqipped,BKMX91000609,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011831,0.0521212,183.0165526,0.0024748,,0.0001848,,48.5,MPG,,,,,24.696,0.6271,0.0116,8.227,0.385,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF53A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-

AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.5,1,Not eqipped,BKMX10009477,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0253,0.2117,302.01,0.0103,,,,29.5,MPG,28.0862,27.8157,33.3231,,23.9,0.723,0.0104,2.21,0.385,0.012,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF53A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.5,1,Not eqipped,BKMX10009478,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.1068,197.02,0.0035,,,,45.3,MPG,,,,,23.9,0.723,0.0104,2.21,0.385,0.012,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF54A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.96,34.6,1,Not eqipped,BKMX10009481,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0177,0.2957,312.12,0.0127,,,,28.5,MPG,27.2001,26.9021,32.2284,,22.8,0.711,0.01033,6.17,0.2891,0.01306,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF54A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.96,34.6,1,Not eqipped,BKMX10009482,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.1675,199.03,0.0026,,,,44.8,MPG,,,,,22.8,0.711,0.01033,6.17,0.2891,0.01306,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF55A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.89,31.5,1,Not eqipped,BKMX10009471,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0238,0.2274,308.1,0.0134,,0.0028,,28.9,MPG,27.561,27.2631,32.6623,,25.666,0.7407,0.0107,3.98,0.4027,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GF55A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.89,31.5,1,Not eqipped,BKMX10009472,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0019,0.1468,200.19,0.0044,,,,44.6,MPG,,,,,25.666,0.7407,0.0107,3.98,0.4027,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GU63A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.5,1,Not eqipped,BKMX10009461,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0034,0.2075,302.2,0.0079,,,,29.5,MPG,28.1232,27.8345,33.332,,23.9,0.723,0.0104,2.03,0.379,0.0119,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GU63A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,2.89,31.5,1,Not eqipped,BKMX10009462,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0009,0.1328,197.23,0.0037,,,,45.2,MPG,,,,,23.9,0.723,0.0104,2.03,0.379,0.0119,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GU65A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.89,31.5,1,Not eqipped,BKMX10009463,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0035,0.3108,308.01,0.0085,,,,28.9,MPG,27.84,27.5543,32.999,,25.666,0.7407,0.0107,3.54,0.3909,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE,TD1F4GU65A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.89,31.5,1,Not eqipped,BKMX10009464,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008,0.1175,200.11,0.0038,,,,44.6,MPG,,,,,25.666,0.7407,0.0107,3.54,0.3909,0.013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU09A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX91000597,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008603,0.0529299,178.802051,0.0014494,,0,,49.6,MPG,,,,,21.504,0.4156,0.0137,4.912,0.312,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU09A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX91000610,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0092406,0.3628914,271.2701464,0.003275,,0.0028999,,32.7,MPG,30.9507512,31.6556037,36.4034776,,21.504,0.4156,0.0137,4.912,0.312,0.0127,TWC,Three-way

catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU09A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX91000611,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0010095,0.0451516,173.5959984,0.0014416,,0.0001308,,51,MPG,,,,,21.504,0.4156,0.0137,4.912,0.312,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU09A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX91000620,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0064609,0.2093582,266.4415072,0.0054486,,0.0017247,,33.3,MPG,31.5144047,32.6099559,36.2729646,,21.504,0.4156,0.0137,4.912,0.312,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU11A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10010679,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0256,0.1511,253.05,0.0097,,,,35.1,MPG,32.73,34.7,37.85,,21.504,0.4156,0.0137,5.132,0.323,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE ECO,TD1F0GU11A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,2.89,31.2,1,Not eqipped,BKMX10010681,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0063,0.0621,169.64,0.0035,,,,52.2,MPG,,,,,21.504,0.4156,0.0137,5.132,0.323,0.0127,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU13A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.2,34.5,1,Not eqipped,BKMX10009451,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.026,0.3539,272.82,0.0094,,,,32.6,MPG,31.0207,31.8815,35.6131,,23.1,0.61,0.011,4.96,0.331,0.0131,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU13A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.2,34.5,1,Not eqipped,BKMX10009452,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0014,0.0458,183.4,0.0027,,,,48.7,MPG,,,,,23.1,0.61,0.011,4.96,0.331,0.0131,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU14A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.19,44.3,1,Not eqipped,BKMX10009453,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0173,0.2612,284.23,0.0234,,,,31.4,MPG,29.6327,30.7631,34.2415,,22.2,0.596,0.0114,9.67,0.1182,0.01112,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU14A1,0,2,BKMXV02.0TW5,Car,156,4,G4KD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.19,44.3,1,Not eqipped,BKMX10009454,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0031,0.0352,192.56,0.0094,,,,46.2,MPG,,,,,22.2,0.596,0.0114,9.67,0.1182,0.01112,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU15A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.2,34.5,1,Not eqipped,BKMX10009433,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0031,0.234,273.17,0.0058,,,,32.6,MPG,31.0212,31.6001,36.2103,,23.1,0.61,0.011,5.32,0.321,0.0125,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F0GU15A1,0,2,BKMXV02.0TPC,Car,154,4,G4KD-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.2,34.5,1,Not eqipped,BKMX10009434,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008,0.048,183.48,0.0006,,,,48.7,MPG,,,,,23.1,0.61,0.011,5.32,0.321,0.0125,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F4GU71A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.2,34.9,1,Not eqipped,BKMX10009479,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0225,0.2474,305.11,0.0122,,,,29.2,MPG,27.83,27.5329,32.998,,23.9,0.723,0.0104,2.42,0.378,0.0121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F4GU71A1,0,2.4,BKMXV02.4DW5,Car,173,4,G4KE-

AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.2,34.9,1,Not eqipped,BKMX10009480,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012,0.0918,205,0.0039,,,,43.5,MPG,,,,,23.9,0.723,0.0104,2.42,0.378,0.0121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F4GU81A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.2,34.9,1,Not eqipped,BKMX10009469,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0031,0.2454,306.13,0.0082,,,,29.1,MPG,27.7542,27.4694,32.899,,23.9,0.723,0.0104,2.311,0.368,0.0121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,FORTE KOUP,TD1F4GU81A1,0,2.4,BKMXV02.4DPC,Car,165,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.2,34.9,1,Not eqipped,BKMX10009470,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011,0.1463,206.04,0.0033,,,,43.3,MPG,,,,,23.9,0.723,0.0104,2.311,0.368,0.0121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,QF2F4AU02A1,0,2.4,CKMXV02.4FW5,Car,200,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,CKMX10016025,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0226,0.2884,294.6865,0.0118,,0.0032,,30.3,MPG,29.5,29,33.7,,28.99,0.4623,0.0104,6.06,0.0903,0.01425,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,QF2F4AU02A1,0,2.4,CKMXV02.4FW5,Car,200,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,CKMX10016026,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0045,0.0793,181.4423,0.0051,,,,49.4,MPG,,,,,28.99,0.4623,0.0104,6.06,0.0903,0.01425,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F0HU13A1,0,2,BKMXV02.0EW5,Car,274,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.89,30.3,1,Not eqipped,BKMX10011480,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0217,0.2349,312.0123,0.0157,,0.0031,,28.4,MPG,26.1,27.2,33.1,,30.185,0.5134,0.01042,7.9,0.392,0.0106,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F0HU13A1,0,2,BKMXV02.0EW5,Car,274,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.89,30.3,1,Not eqipped,BKMX10011481,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0019,0.1185,187.0016,0.0026,,,,47.5,MPG,,,,,30.185,0.5134,0.01042,7.9,0.392,0.0106,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F4AU14A1,0,2.4,BKMXV02.4FW5,Car,200,4,G4KJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.25,35.9,2,"Equipped, not shifted by SIL",BKMX10010436,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0182,0.2693,294.1756,0.0094,,,,30.2,MPG,,,,,26.11,0.4575,0.0105,9.55,0.0702,0.01284,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F4AU14A1,0,2.4,BKMXV02.4FW5,Car,200,4,G4KJ-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.25,35.9,2,"Equipped, not shifted by SIL",BKMX10010437,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004,0.126,181.597,0.002,,,,48.8,MPG,,,,,26.11,0.4575,0.0105,9.55,0.0702,0.01284,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F4AU21B1,0,2.4,BKMXV02.4FPC,Car,192,4,G4KJ-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,BKMX10010641,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0049,0.1371,294.1038,0.0046,,0.0008,,30.2,MPG,29.38,28.76,33.71,,28.99,0.4623,0.0104,8.2,0.287,0.0108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,OPTIMA,TF1F4AU21B1,0,2.4,BKMXV02.4FPC,Car,192,4,G4KJ-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.89,30,1,Not eqipped,BKMX10010642,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.002,0.027,181.1141,0.002,,,,49.1,MPG,,,,,28.99,0.4623,0.0104,8.2,0.287,0.0108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO,UB2R6AU11A1,0,1.6,CKMXV01.6BW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.27,36.2,1,Not eqipped,CKMX10016126,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0203,0.1291,231.1048,0.0157,,,,38.7,MPG,,,,,20.38,0.107,0.01517,5.874,-

0.1245,0.01591,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO,UB2R6AU11A1,0,1.6,CKMXV01.6BW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.27,36.2,1,Not eqipped,CKMX10016127,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0046,0.1145,158.2139,0.0074,,,,56.5,MPG,,,,,20.38,0.107,0.01517,5.874,-0.1245,0.01591,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO,UB2R6AU14A1,0,1.6,CKMXV01.6BW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.83,42.5,5,"Equipped, shifted by survey schedule",CKMX10016124,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0152,0.1995,225.7106,0.0103,,,,39.5,MPG,,,,,18.15,0.215,0.01492,5.335,0.0279,0.01585,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO,UB2R6AU14A1,0,1.6,CKMXV01.6BW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.83,42.5,5,"Equipped, shifted by survey schedule",CKMX10016125,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0086,0.3124,157.2105,0.0049,,,,56.8,MPG,,,,,18.15,0.215,0.01492,5.335,0.0279,0.01585,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO ECO,UB3R6AU01A5,0,1.6,DKMXV01.6AW5,Car,138,,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.07,33.9,1,Not eqipped,DKMX91001224,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039868,0.1519753,156.1878589,0.0048465,,0.0005471,0.01,57,MPG,,,,,20.641,0.04671,0.01514,5.687,-0.01549,0.01416,,,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO ECO,UB3R6AU01A5,0,1.6,DKMXV01.6AW5,Car,138,,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.07,33.9,1,Not eqipped,DKMX91001226,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0169791,0.1408518,216.6144595,0.0201765,,0.0019224,0.01,41,MPG,38.0820495,40.2096108,45.5577471,,20.641,0.04671,0.01514,5.687,-0.01549,0.01416,,,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO ECO,UB3R6AU03A5,0,1.6,DKMXV01.6AW5,Car,138,,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.27,36.1,1,Not eqipped,DKMX10019511,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0031,0.1052,157.0763,0.0034,,,,56.9,MPG,,,,,20.38,0.107,0.01517,5.185,0.05522,0.01408,,,N,,,N,No averaging

2013,Kia,KMX,KIA,RIO ECO,UB3R6AU03A5,0,1.6,DKMXV01.6AW5,Car,138,,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2875,3.27,36.1,1,Not eqipped,DKMX10019512,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0179,0.1482,221.1254,0.0159,,0.0017,,40.4,MPG,,,,,20.38,0.107,0.01517,5.185,0.05522,0.01408,,,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU12A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.74,40.5,1,Not eqipped,BKMX10005821,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0108,0.2782,361.55,0.0037,,,,24.7,MPG,,,,,21.62,0.83649,0.01885,2.327,0.542,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU12A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.74,40.5,1,Not eqipped,BKMX10005822,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012,0.0443,239.63,0.0036,,,,37.3,MPG,,,,,21.62,0.83649,0.01885,2.327,0.542,0.02,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU29A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.91,36.9,1,Not eqipped,BKMX10005803,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0177,0.3476,338.47,0.0032,,0.0023,,26.4,MPG,25.5,25.15,28.95,,28.25,0.6241,0.02159,7.994,0.225,0.024,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU29A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.91,36.9,1,Not eqipped,BKMX10005804,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0026,0.106,238.52,0.0028,,,,37.4,MPG,,,,,28.25,0.6241,0.02159,7.994,0.225,0.024,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU31A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.91,36.9,1,Not eqipped,BKMX10005819,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0167,0.3244,331.98,0.0029,,,,26.9,MPG,,,,,25.11,0.4595,0.01976,6.313,0.103,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0F4GU31A1,0,2.4,BKMXT02.4CW5,Truck,175,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.91,36.9,1,Not eqipped,BKMX10005820,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001,0.0538,221.79,0.0022,,,,40.3,MPG,,,,,25.11,0.4595,0.01976,6.313,0.103,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0L5GU17A2,0,3.5,BKMXT03.5XW5,Truck,276,6,G6DC-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.2,30.1,1,Not eqipped,BKMX10005827,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0174,0.4232,352.85,0.0084,,,,25.3,MPG,,,,,26.64,0.41583,0.02463,5.987,0.2286,0.0229,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM0L5GU17A2,0,3.5,BKMXT03.5XW5,Truck,276,6,G6DC-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.2,30.1,1,Not eqipped,BKMX10005828,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0036,0.1805,249.67,0.0104,,,,35.8,MPG,,,,,26.64,0.41583,0.02463,5.987,0.2286,0.0229,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM1L5GU31A2,0,3.5,BKMXT03.5XW5,Truck,276,6,G6DC-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.2,30.1,1,Not eqipped,BKMX10012683,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0243,0.442,391.674,0.0038,,0.0038,,22.8,MPG,22.1885,21.8562,25.8618,,31.745,0.5298,0.0232,13.539,0.179,0.0246,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM1L5GU31A2,0,3.5,BKMXT03.5XW5,Truck,276,6,G6DC-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.2,30.1,1,Not eqipped,BKMX10012684,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0032,0.1829,264.223,0.0121,,,,33.8,MPG,,,,,31.745,0.5298,0.0232,13.539,0.179,0.0246,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM2F4GU11A1,0,2.4,CKMXV02.4YW5,Car,191,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.65,34.3,1,Not eqipped,CKMX10014154,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.017,0.2394,326.33,0.01,,,,27.4,MPG,,,,,22.53,0.4666,0.0172,7.82,0.1751,0.01857,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM2F4GU11A1,0,2.4,CKMXV02.4YW5,Car,191,4,G4KJ-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.65,34.3,1,Not eqipped,CKMX10014156,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0043,0.0652,199.86,0.003,,,,44.7,MPG,,,,,22.53,0.4666,0.0172,7.82,0.1751,0.01857,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM2F4GU21A1,0,2.4,CKMXV02.4YW5,Car,191,4,G4KJ-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.65,34.3,1,Not eqipped,CKMX10014159,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0174,0.2528,343.19,0.0142,,0.0033,,26,MPG,24.7934,25.0419,29.3185,,24.89,0.642,0.019,4.35,0.0799,0.02353,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SORENTO,XM2F4GU21A1,0,2.4,CKMXV02.4YW5,Car,191,4,G4KJ-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.65,34.3,1,Not eqipped,CKMX10014160,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0043,0.0652,230.39,0.0025,,,,38.9,MPG,,,,,24.89,0.642,0.019,4.35,0.0799,0.02353,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2N0GF12A1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,2,"Equipped, not shifted by SIL",CKMX10014562,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0251,0.2948,269.9,0.0182,,,,33.1,MPG,,,,,16.903,0.2011,0.02414,1.343,-0.2205,0.02683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2N0GF12A1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.33,38.4,2,"Equipped, not shifted by SIL",CKMX10014563,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0021,0.0645,187.18,0.0034,,,,47.8,MPG,,,,,16.903,0.2011,0.02414,1.343,-

0.2205,0.02683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2N0GF13B1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.39,34.6,1,Not eqipped,CKMX10014565,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0052,0.1358,188.57,0.0035,,,,47.3,MPG,,,,,18.124,0.0114,0.0223,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2N0GF13B1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.39,34.6,1,Not eqipped,CKMX10015808,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0263,0.1875,269.26,0.0238,,,,33.2,MPG,,,,,18.124,0.0114,0.0223,2.45,-0.1845,0.02219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2R6AU09A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.44,37.3,1,Not eqipped,CKMX10014619,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01,0.455,180.12,0.008,,,,49.5,MPG,,,,,21.07,0.15452,0.02002,6.055,-0.4174,0.02436,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2R6AU09A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.44,37.3,1,Not eqipped,CKMX10015580,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0185,0.2901,255.64,0.0107,,,,34.9,MPG,32.3961,34,39.7136,,21.07,0.15452,0.02002,6.055,-0.4174,0.02436,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2R6AU14A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.27,43.4,2,"Equipped, not shifted by SIL",CKMX10014621,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0059,0.1691,179.56,0.0112,,,,49.6,MPG,,,,,19.641,0.12429,0.01992,5.692,-0.25814,0.02216,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL,AM2R6AU14A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,4.27,43.4,2,"Equipped, not shifted by SIL",CKMX10015581,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0173,0.1721,254.14,0.0178,,,,35.2,MPG,34.2433,34.006,38.8378,,19.641,0.12429,0.01992,5.692,-0.25814,0.02216,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL ECO,AM2N0GF11A1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.39,36.6,1,Not eqipped,CKMX91000958,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.003009,0.1144813,179.7428281,0.0037632,,0.0012525,0.01,49.4,MPG,,,,,17.99,0.0102,0.0214,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL ECO,AM2N0GF11A1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.39,36.6,1,Not eqipped,CKMX91000959,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0331198,0.2437461,260.8261127,0.0158927,,0.0034753,0.01,34.1,MPG,31.3240174,33.4039646,38.0519633,,17.99,0.0102,0.0214,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL ECO,AM2N0GF11A1,0,2,CKMXV02.0LW5,Car,164,4,G4NA-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.39,36.6,1,Not eqipped,CKMX91000995,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0265963,0.2420269,255.1190699,0.0185903,0.00056,0.0031113,,34.9,MPG,32.4339969,33.9760693,38.8790225,,17.99,0.0102,0.0214,1.63,-0.35,0.02377,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL ECO,AM2R6AU13A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.44,37.3,1,Not eqipped,CKMX10015576,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0271,0.2124,238.01,0.0201,,0.0022,,37.5,MPG,34.7227,36.3462,42.3492,,21.349,0.02746,0.01952,5.614,-0.3574,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,SOUL ECO,AM2R6AU13A1,0,1.6,CKMXV01.6AW5,Car,138,4,G4FD-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.44,37.3,1,Not eqipped,CKMX10015578,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0104,0.2642,172.89,0.0076,,,,51.6,MPG,,,,,21.349,0.02746,0.01952,5.614,-0.3574,0.02136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL1F4GF32B1,0,2.4,BKMXT02.4SW5,Truck,176,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.74,39.2,1,Not eqipped,BKMX10007946,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0172,0.1665,341.67,0.0153,,,,26.1,MPG,26.5395,24.4342,29.5005,,24.587,0.3249,0.02319,6.047,0.0564,0.02434,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL1F4GF32B1,0,2.4,BKMXT02.4SW5,Truck,176,4,G4KE-MC,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.74,39.2,1,Not eqipped,BKMX10008948,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0076,0.1327,222.45,0.0036,,,,40.2,MPG,,,,,24.587,0.3249,0.02319,6.047,0.0564,0.02434,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL1F4GF34A1,0,2.4,BKMXT02.4SW5,Truck,176,4,G4KE-MC,M,Manual,6,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.74,39.2,1,Not eqipped,BKMX10007948,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.018,0.1948,361.25,0.0109,,,,24.7,MPG,24.795,23.1211,28.1314,,26.05,0.3965,0.02588,7.51,0.128,0.02703,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL1F4GF34A1,0,2.4,BKMXT02.4SW5,Truck,176,4,G4KE-MC,M,Manual,6,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.74,39.2,1,Not eqipped,BKMX10007949,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0021,0.102,240.43,0.0026,,,,37.2,MPG,,,,,26.05,0.3965,0.02588,7.51,0.128,0.02703,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F0U51A5,0,2,CKMXT02.0KW5,Truck,260,4,G4KH-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,3.32,32,1,Not eqipped,CKMX10012466,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.1232,246.6064,0.0039,,,,35.9,MPG,,,,,31.96,0.3734,0.02516,15.49,-0.4206,0.03325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F0U51A5,0,2,CKMXT02.0KW5,Truck,260,4,G4KH-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,3.32,32,1,Not eqipped,CKMX10012878,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0236,0.2694,341.8653,0.0173,,0.004,,26.1,MPG,23.7075,25.7707,29.036,,31.96,0.3734,0.02516,15.49,-0.4206,0.03325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F0U53A5,0,2,CKMXT02.0KW5,Truck,260,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.32,32,1,Not eqipped,CKMX10012879,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0211,0.2331,324.0949,0.0191,,,,27.6,MPG,,,,,28.84,0.3552,0.02298,15.22,-0.5306,0.03166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F0U53A5,0,2,CKMXT02.0KW5,Truck,260,4,G4KH-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.32,32,1,Not eqipped,CKMX10012880,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017,0.1023,221.168,0.0032,,,,40.4,MPG,,,,,28.84,0.3552,0.02298,15.22,-0.5306,0.03166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GF51A,0,2.4,CKMXT02.4SW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.2,1,Not eqipped,CKMX10012797,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0196,0.2157,339.7932,0.0156,,0.0026,,26.3,MPG,24.923,25.387,29.3979,,24.33,0.4787,0.02222,10.81,-0.4523,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GF51A,0,2.4,CKMXT02.4SW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.2,1,Not eqipped,CKMX10012799,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0042,0.1053,226.7051,0.0022,,,,39.4,MPG,,,,,24.33,0.4787,0.02222,10.81,-0.4523,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GF53A,0,2.4,CKMXT02.4SW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.2,1,Not eqipped,CKMX10012800,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0173,0.2296,320.6377,0.0134,,,,27.8,MPG,,,,,22.74,0.4031,0.02041,9.76,-0.4996,0.02756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GF53A,0,2.4,CKMXT02.4SW5,Truck,176,4,G4KE-AC,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.2,1,Not eqipped,CKMX10012801,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0042,0.0738,199.7025,0.0029,,,,44.7,MPG,,,,,22.74,0.4031,0.02041,9.76,-

0.4996,0.02756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GU51A,0,2.4,CKMXT02.4SPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.2,1,Not eqipped,CKMX10012802,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0028,0.2138,338.1395,0.0038,,0.0005,,26.4,MPG,25.1315,25.4659,29.5965,,24.33,0.4787,0.02222,10.81,-0.4523,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GU51A,0,2.4,CKMXT02.4SPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.2,31.2,1,Not eqipped,CKMX10012804,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0026,0.0629,226.7423,0.003,,,,39.4,MPG,,,,,24.33,0.4787,0.02222,10.81,-0.4523,0.0299,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GU53A,0,2.4,CKMXT02.4SPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.2,1,Not eqipped,CKMX10012805,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0029,0.2382,322.6246,0.0049,,,,27.7,MPG,,,,,22.74,0.4031,0.02041,9.76,-0.4996,0.02756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Kia,KMX,KIA,Sportage,SL2F4GU53A,0,2.4,CKMXT02.4SPC,Truck,170,4,G4KE-ACS,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.2,31.2,1,Not eqipped,CKMX10012806,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022,0.0694,199.8616,0.0024,,,,44.7,MPG,,,,,22.74,0.4031,0.02041,9.76,-0.4996,0.02756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,0,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4250,2.87,36.6,1,Not eqipped,DNLX10019278,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.201,4.886,784,0.019,,0.064,,11.2,MPG,11.5,10.2,13.5,,45.007,0.01989,0.025672,11.919,0.02567,0.028681,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,0,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4250,2.87,36.6,1,Not eqipped,DNLX10019279,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0,0.692,744,0.0076,,0.0075,,12,MPG,,,,,40.915,0.01809,0.023338,10.836,-0.5606,0.026074,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,0,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4250,2.87,36.6,1,Not eqipped,DNLX91001317,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0430742,1.2148705,417.9545797,0,,0.0141658,0.01,21.2,MPG,,,,,40.915,0.01809,0.023338,10.836,-0.5606,0.026074,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,0,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4250,2.87,36.6,1,Not eqipped,DNLX91001318,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0290953,1.2696798,771.3893189,0.0200191,,0.0078083,0.01,11.5,MPG,10.0852997,10.9494703,14.4599899,,40.915,0.01809,0.023338,10.836,-0.5606,0.026074,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,0,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4250,2.87,36.6,1,Not eqipped,DNLX91001319,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0341421,2.2746283,590.8789553,0.0147769,,0.0133194,0.01,15,MPG,9.7458467,17.6857437,,,40.915,0.01809,0.023338,10.836,-0.5606,0.026074,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-DSSCD,1,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration < 1,4000,2.87,36.6,1,Not eqipped,DNLX10019281,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0568,0.718,705,0.0422,,0.0123,0.01,12.6,MPG,11.8,12,14.9,,33.721,0.01736

,0.022116,6.362,-0.4485,0.024037,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-
DSSCD,1,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g.
Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration <
1,4000,2.87,36.6,1,Not eqipped,DNLX10019282,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0043,0.01,353,0.0463,,0.003,0.01,25.2,MPG,,,,,33.721,0.01736,0.022116,6.
362,-0.4485,0.024037,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lamborghini,NLX,LAMBORGHINI,AVENTADOR,LB83-
DSSCD,1,6.498,DNLXV06.5L83,Car,700,12,L539,AMS,Automated Manual- Selectable (e.g.
Automated Manual with paddles),7,N,A,All Wheel Drive,2,Top gear ration <
1,4000,2.87,36.6,1,Not eqipped,DNLX10019283,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0178,1.377,527,0.0952,,0.0118,,16.8,MPG,10.9,20,,,33.721,0.01736,0.0221
16,6.362,-0.4485,0.024037,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,LR2,LBDVP001,0,2,DLRXT02.0001,Truck,240,4,2.0GTDI-
13,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.75,30.6,1,Not
eqipped,DLRX10023109,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.04564,0.6178,406.99,0.0012,0.004,0.00756,,21.8,MPG,20.8937,21.0362,24.33
87,,51.1,0.0426,0.028135,11.46,0.2316,0.025561,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Land Rover,LRX,Land Rover,LR2,LBDVP001,0,2,DLRXT02.0001,Truck,240,4,2.0GTDI-
13,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.75,30.6,1,Not
eqipped,DLRX10023110,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00749,0.1528,270.5,0.00042,,0.00417,,32.9,MPG,,,,,51.1,0.0426,0.028135,1
1.46,0.2316,0.025561,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,LR3,0AVP0002,1,5,ALRXT05.0001,Truck,375,8,5.0AJHFC-
10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,31,1,Not
eqipped,ALRX10003118,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01596,0.2238,576.48,0.01809,0.00164,,,15.3,MPG,,,,,51.61,0.6398,0.0335,1
3.4,0.3287,0.0338,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,LR3,0AVP0002,1,5,ALRXT05.0001,Truck,375,8,5.0AJHFC-
10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,31,1,Not
eqipped,ALRX10003119,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02916,0.2013,369.58,0.00411,,,,23.8,MPG,,,,,51.61,0.6398,0.0335,13.4,0.3
287,0.0338,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,LR3,0AVP0002,1,5,ALRXT05.0001,Truck,375,8,5.0AJHFC-
10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,31,1,Not
eqipped,ALRX10014324,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,575.1,,,,,15.5,MPG,,,,,51.61,0.6398,0.0335,13.4,0.3287,0.0338,TWC,Three-
way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,LR3,0AVP0002,1,5,ALRXT05.0001,Truck,375,8,5.0AJHFC-
10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,31,1,Not
eqipped,ALRX10014325,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,363,,,,,24.5,MPG,,,,,51.61,0.6398,0.0335,13.4,0.3287,0.0338,TWC,Three-
way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range
Rover,LKDTT066,0,5,DLRXT05.0002,Truck,375,8,5.0AJHFC-13,SA,Semi-Automatic,8,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,3.21,23.9,1,Not eqipped,DLRX10022844,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01342,0.1923,531.45,0.01135,0.001,0.0038,,16.8,MPG,17.196,15.496,19.306,
,48.36,0.2621,0.027459,-36.88,-0.078,0.028624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range
Rover,LKDTT066,0,5,DLRXT05.0002,Truck,375,8,5.0AJHFC-13,SA,Semi-Automatic,8,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,3.21,23.9,1,Not eqipped,DLRX10022847,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00336,0.1053,324.24,0.003,,0.0026,,27.5,MPG,,,,,48.36,0.2621,0.027459,-
36.88,-0.078,0.028624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range Rover
Evoque,3CTTP036,3,2,CLRXT02.0001,Truck,240,4,2.0GTDI-12A,SA,Semi-Automatic,6,Y,4,4-
Wheel Drive,2,Top gear ration < 1,4250,3.75,30.5,1,Not

eqipped,CLRX10022678,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0169,0.1359,362.42,0.0078,0.002,0.00328,,24.6,MPG,23.574,23.472,27.858,,28.86,0.4802,0.017363,-5.99,0.6864,0.014219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range Rover Evoque,3CTTP036,3,2,CLRXT02.0001,Truck,240,4,2.0GTDI-12A,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.75,30.5,1,Not eqipped,CLRX10022679,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.0094,228.68,0.002,,0.00191,,38.9,MPG,,,,,28.86,0.4802,0.017363,-5.99,0.6864,0.014219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,Range Rover Sport,VX10HWS,0,5,CLRXT05.0001,Truck,375,8,5.0AJHFC-10,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,32.5,1,Not eqipped,CLRX10021365,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004,0.2532,364.23,0.0017,,,,24.4,MPG,,,,,60.35,0.507,0.0296,16.41,0.1483,0.0295,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,Range Rover Sport,VX10HWS,0,5,CLRXT05.0001,Truck,375,8,5.0AJHFC-10,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,32.5,1,Not eqipped,CLRX10021711,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.014,0.17,570.95,0.012,,0.003,,15.6,MPG,,,,,60.35,0.507,0.0296,16.41,0.1483,0.0295,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,Range Rover Sport Supercharged,0AVP0049,0,5,ALRXT05.0001,Truck,510,8,5.0AJSFC-10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,32.5,1,Not eqipped,ALRX10003105,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01689,0.3361,612.43,0.00657,0.00197,,,14.4,MPG,,,,,60.35,0.507,0.0296,16.41,0.4956,0.0273,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,LAND ROVER,Range Rover Sport Supercharged,0AVP0049,0,5,ALRXT05.0001,Truck,510,8,5.0AJSFC-10,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.54,32.5,1,Not eqipped,ALRX10003106,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00214,0.0192,374.24,0.0022,,,,23.6,MPG,,,,,60.35,0.507,0.0296,16.41,0.4956,0.0273,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range Rover Supercharged,LKDTT065,0,5,DLRXT05.0002,Truck,510,8,5.0AJSFC-13,SA,Semi-Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.21,24.1,1,Not eqipped,DLRX10023148,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02768,0.2859,565.05,0.01118,0.002,0.00568,,15.7,MPG,16.0221,14.5175,18.4307,,51.73,-0.0628,0.032964,-21.336,-0.3776,0.032614,TWC,Three-way catalyst,N,,,N,No averaging

2013,Land Rover,LRX,Land Rover,Range Rover Supercharged,LKDTT065,0,5,DLRXT05.0002,Truck,510,8,5.0AJSFC-13,SA,Semi-Automatic,8,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.21,24.1,1,Not eqipped,DLRX10023149,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01215,0.0915,341.57,0.00362,,0.00584,,26,MPG,,,,,51.73,-0.0628,0.032964,-21.336,-0.3776,0.032614,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,1,3.5,ALTXV03.5JHB,Car,276,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3375,3.77,43,1,Not eqipped,ALTX10009728,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.004,0.488,254.6,0.002,,0.003,,34.7,MPG,,,,,40.54,0,0.0205,20.52,-0.2293,0.02128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,1,3.5,ALTXV03.5JHB,Car,276,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3375,3.77,43,1,Not eqipped,ALTX10009729,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.17026,1.42776,450.519,0.0184,,0.01294,,,MPG,18.31,18.09,23.83,,36.49,0,0.0184,15.2,-0.562,0.0263,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,1,3.5,ALTXV03.5JHB,Car,276,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3375,3.77,43,1,Not eqipped,ALTX10009730,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0292,0.59391,412.077,0.01038,,0.00723,,21.5,MPG,22.27,19.69,25.28,,40.54

,0,0.0205,20.52,-0.2293,0.02128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,1,3.5,ALTXV03.5JHB,Car,276,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3375,3.77,43,1,Not eqipped,ALTX10010203,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01551,0.41222,494.455,0.02857,,0.00742,,,MPG,,,,,40.54,0,0.0205,20.52,-0.2293,0.02128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,1,3.5,ALTXV03.5JHB,Car,276,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3375,3.77,43,1,Not eqipped,ALTX10010204,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.02891,1.24713,335.316,0.02017,,0.00801,,,MPG,19.78,29.09,,,40.54,0,0.0205,20.52,-0.2293,0.02128,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,3,3.5,ALTXV03.5JHB,Car,345,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.77,48,1,Not eqipped,ALTX10012964,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04754,0.64233,426.301,0.00664,,0.00788,,20.8,MPG,21.68,18.94,24.56,,34.93,0,0.0217,13.57,-0.4525,0.02558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,3,3.5,ALTXV03.5JHB,Car,345,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.77,48,1,Not eqipped,ALTX10012966,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.53022,3.30643,469.788,0.0101,,0.02572,,18.5,MPG,16.52,17.53,23.1,,38.42,0,0.02387,11.52,-0.8832,0.03189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,3,3.5,ALTXV03.5JHB,Car,345,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.77,48,1,Not eqipped,ALTX10012967,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03453,0.61124,262.447,0.00042,,0.00991,,33.8,MPG,,,,,34.93,0,0.0217,13.57,-0.4525,0.02558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,3,3.5,ALTXV03.5JHB,Car,345,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.77,48,1,Not eqipped,ALTX10012968,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0325,0.11049,473.013,0.03108,,0.0083,,18.8,MPG,,,,,34.93,0,0.0217,13.57,-0.4525,0.02558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-10-EVM6S,3,3.5,ALTXV03.5JHB,Car,345,6,2GR-3.5,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.77,48,1,Not eqipped,ALTX10012969,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.06397,4.5041,353.015,0.01234,,0.02025,,24.7,MPG,17.74,27.76,,,34.93,0,0.0217,13.57,-0.4525,0.02558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-11-EVSA6,0,3.5,BLTXV03.5JHB,Car,276,6,2GR-3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.68,45,1,Not eqipped,BLTX10013458,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02535,0.22067,374.62,0.02389,,0.00414,,23.4,MPG,23.99,21.96,27.55,,35.98,0,0.021,9.24,-0.2844,0.02341,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-11-EVSA6,0,3.5,BLTXV03.5JHB,Car,276,6,2GR-3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.68,45,1,Not eqipped,BLTX10013459,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.32126,1.67039,412.481,0.01765,,0.01534,,21.2,MPG,18.75,20.34,25.87,,39.58,0,0.0231,3.88,-0.6013,0.0294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-11-EVSA6,0,3.5,BLTXV03.5JHB,Car,276,6,2GR-3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.68,45,1,Not eqipped,BLTX10013460,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001,0.09113,231.415,0.00221,,0.00053,,37.8,MPG,,,,,35.98,0,0.021,9.24,-0.2844,0.02341,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-11-EVSA6,0,3.5,BLTXV03.5JHB,Car,276,6,2GR-3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.68,45,1,Not eqipped,BLTX10013461,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01427,0.06686,433.614,0.05165,,0.00707,,20.5,MPG,,,,,35.98,0,0.021,9.24,-0.2844,0.02341,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,LOTUS,EVORA,EDV-11-EVSA6,0,3.5,BLTXV03.5JHB,Car,276,6,2GR-3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.68,45,1,Not

eqipped,BLTX10013462,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01676,1.28446,328.85,0.0081,,0.00457,,26.8,MPG,19.14,30.34,,,35.98,0,0.
021,9.24,-0.2844,0.02341,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,Lotus,Evora S-IPS,EDV-12-EVA02,0,3.5,CLTXV03.5JHB,Car,345,6,2GR-
3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3500,3.68,45,1,Not eqipped,CLTX10017287,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.74271,3.11848,446.145,0.02402,,0.02929,,19.2,MPG,17.67,18.18,24.72,,40.01,0,0.
0229,1.58,-0.4436,0.02688,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,Lotus,Evora S-IPS,EDV-12-EVA02,0,3.5,CLTXV03.5JHB,Car,345,6,2GR-
3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3500,3.68,45,1,Not eqipped,CLTX10017288,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.04442,0.54948,393.662,0.02116,,0.00616,0.01,22.1,MPG,22.79,20.72,26.43,,
36.37,0,0.0209,12.06,-0.2318,0.02198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,Lotus,Evora S-IPS,EDV-12-EVA02,0,3.5,CLTXV03.5JHB,Car,345,6,2GR-
3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3500,3.68,45,1,Not eqipped,CLTX10017289,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00231,0.08892,236.263,0.01,,0.00129,0.01,37,MPG,,,,,36.37,0,0.0209,12.06
,-0.2318,0.02198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,Lotus,Evora S-IPS,EDV-12-EVA02,0,3.5,CLTXV03.5JHB,Car,345,6,2GR-
3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3500,3.68,45,1,Not eqipped,CLTX10017290,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01703,0.95256,330.461,0.01158,,0.00632,,26.3,MPG,30.52,18.56,,,36.37,0,
0.0209,12.06,-0.2318,0.02198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Lotus,LTX,Lotus,Evora S-IPS,EDV-12-EVA02,0,3.5,CLTXV03.5JHB,Car,345,6,2GR-
3.5,SA,Semi-Automatic,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3500,3.68,45,1,Not eqipped,CLTX10017291,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.00442,0.00411,440.205,0.05298,,0.00365,,19.8,MPG,,,,,36.37,0,0.0209,12.
06,-0.2318,0.02198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO
CONVERTIBLE,48675,2,4.7,DMAXV04.7LEV,Car,444,8,DMAX3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,3.73,32.1,2,"Equipped, not shifted by
SIL",DMAX10021152,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.054,0.774,560.258,0.003,,0.005,,15.9,MPG,16.81,14.72,18.05,,54.6,0.076,0
.0221,29.78,0.0153,0.0195,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO
CONVERTIBLE,48675,2,4.7,DMAXV04.7LEV,Car,444,8,DMAX3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,3.73,32.1,2,"Equipped, not shifted by
SIL",DMAX10021156,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.239,318.614,0.009,,0,,28,MPG,,,,,54.6,0.076,0.0221,29.78,0.0153,0.
0195,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO
CONVERTIBLE,48675,4,4.7,DMAXV04.7LEV,Car,444,8,DMAX3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,3.73,32.1,2,"Equipped, not shifted by
SIL",DMAX10021153,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.027,0.487,573.423,0.031,,0.005,,15.6,MPG,16.77,13.98,19.34,,54.6,0.076,0
.0221,29.78,0.0153,0.0195,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO
CONVERTIBLE,48675,4,4.7,DMAXV04.7LEV,Car,444,8,DMAX3,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,3.73,32.1,2,"Equipped, not shifted by
SIL",DMAX10021157,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.223,313.164,0.01,,0,,28.5,MPG,,,,,54.6,0.076,0.0221,29.78,0.0153,0.019
5,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO S
AUTOMATIC,45367,2,4.7,DMAXV04.7LEV,Car,454,8,DMAX4,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.54,30.5,2,"Equipped, not shifted by
SIL",DMAX10021148,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.016,0.479,560.136,0.003,,0.003,,15.9,MPG,16.97,14.59,18.25,,51.86,0.0901
,0.0206,22.85,0.2373,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO S
AUTOMATIC,45367,2,4.7,DMAXV04.7LEV,Car,454,8,DMAX4,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.54,30.5,2,"Equipped, not shifted by
SIL",DMAX10021150,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.203,311.998,0.003,,0,,28.6,MPG,,,,,51.86,0.0901,0.0206,22.85,0.237
3,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO S
AUTOMATIC,45367,3,4.7,DMAXV04.7LEV,Car,454,8,DMAX4,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.54,30.5,2,"Equipped, not shifted by
SIL",DMAX10021149,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02,0.459,568.004,0.013,,0.004,,15.7,MPG,16.4,13.98,18.86,,51.86,0.0901,0
.0206,22.85,0.2373,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,GRANTURISMO S
AUTOMATIC,45367,3,4.7,DMAXV04.7LEV,Car,454,8,DMAX4,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.54,30.5,2,"Equipped, not shifted by
SIL",DMAX10021151,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.236,310.862,0.003,,0,,28.7,MPG,,,,,51.86,0.0901,0.0206,22.85,0.237
3,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,QUATTROPORTE
S,ZAMJK39A690027157,0,4.7,AMAXV04.7LEV,Car,424,8,AMAX2,A,Automatic,6,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4750,3.54,31.4,2,"Equipped, not shifted by
SIL",AMAX10005053,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.015,0.327,609.864,0.007,,0.0014,,14.5,MPG,15.51,13.1,17.23,,59.13,0.0445
,0.0224,23.11,0.4023,0.0262,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,QUATTROPORTE
S,ZAMJK39A690027157,0,4.7,AMAXV04.7LEV,Car,424,8,AMAX2,A,Automatic,6,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4750,3.54,31.4,2,"Equipped, not shifted by
SIL",AMAX10005055,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0011,0.199,347.561,0.005,,0.0001,,25.5,MPG,,,,,59.13,0.0445,0.0224,23.11
,0.4023,0.0262,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,QUATTROPORTE
S,ZAMJK39A690027157,1,4.7,AMAXV04.7LEV,Car,424,8,AMAX2,A,Automatic,6,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4750,3.54,31.4,2,"Equipped, not shifted by
SIL",AMAX10005054,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.019,0.365,633.741,0.009,,,,14,MPG,,,,,59.13,0.0445,0.0224,23.11,0.4023,0
.0262,TWC,Three-way catalyst,N,,,N,No averaging

2013,Maserati,MAX,MASERATI,QUATTROPORTE
S,ZAMJK39A690027157,1,4.7,AMAXV04.7LEV,Car,424,8,AMAX2,A,Automatic,6,N,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4750,3.54,31.4,2,"Equipped, not shifted by
SIL",AMAX10005056,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0011,0.214,347.386,0.002,,,,25.5,MPG,,,,,59.13,0.0445,0.0224,23.11,0.402
3,0.0262,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,6,BBD3-3.7-J-
963,0,3.7,BTKXV03.75BA,Car,272,6,BBD1FF0505,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.2,28.8,1,Not eqipped,BTKX10009840,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0055385,0.168143,257.291,0.0053962,,0.0035427,0.01,34.6,MPG,,,,,47.51,0.
318,0.01634,20.86,0.2343,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,6,BBD3-3.7-J-
963,0,3.7,BTKXV03.75BA,Car,272,6,BBD1FF0505,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.2,28.8,1,Not eqipped,BTKX10009841,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0135407,0.23871,409.449,0.0152873,,0.0025261,0.01,21.7,MPG,22.0688,20.21
87,24.7808,,47.51,0.318,0.01634,20.86,0.2343,0.01627,TWC,Three-way catalyst,N,,,N,No
averaging

2013,MAZDA,TKX,Mazda,6,BBD3-3.7-J-
963,0,3.7,BTKXV03.75BA,Car,272,6,BBD1FF0505,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.2,28.8,1,Not
eqipped,BTKX10009842,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0121553,0.197977,360.015,0.0214196,,,,24.7,MPG,15.8947,29.2882,,,47.51,

0.318,0.01634,20.86,0.2343,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,6,BBD3-3.7-J-963,0,3.7,BTKXV03.75BA,Car,272,6,BBD1FF0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,28.8,1,Not eqipped,BTKX10009843,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0163914,0.358245,476.824,0.0138947,,,,18.6,MPG,,,,,47.51,0.318,0.01634,20.86,0.2343,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,6,BBD3-3.7-J-963,0,3.7,BTKXV03.75BA,Car,272,6,BBD1FF0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,28.8,1,Not eqipped,BTKX10009844,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.173355,1.35561,452.104,0.0199751,,0.0090192,,19.4,MPG,16.7057,18.822,23.8763,,47.51,0.318,0.01634,20.86,0.2343,0.01627,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPE31-004,0,2,DTKXT02.05NM,Truck,155,4,3PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.7,38.9,1,Not eqipped,DTKX10017369,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.009,0.15,263,0.006,,0.0035,0.01,33.7,MPG,32.2,32.3,38,,22.04,0.29002,0.023059,2.518,0.11607,0.023607,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPE31-004,0,2,DTKXT02.05NM,Truck,155,4,3PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.7,38.9,1,Not eqipped,DTKX10017371,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.011,0.12,181,0.002,,0.0045,0.01,48.9,MPG,,,,,22.04,0.29002,0.023059,2.518,0.11607,0.023607,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPEG1-003,0,2,DTKXT02.05NM,Truck,154,4,3PEGAAM,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,4.62,33.7,1,Not eqipped,DTKX10017376,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.011,0.11,271,0.01,,0.0033,0.01,32.7,MPG,29.2,33.2,34.7,,30.394,0.44548,0.021545,10.56,0.27918,0.021032,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPEG1-003,0,2,DTKXT02.05NM,Truck,154,4,3PEGAAM,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,4.62,33.7,1,Not eqipped,DTKX10017377,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.014,0.19,204,0.003,,0.006,0.01,43.4,MPG,,,,,30.394,0.44548,0.021545,10.56,0.27918,0.021032,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPEG1-003,1,2,DTKXT02.05NM,Truck,154,4,3PEGAAM,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,4.62,33.3,1,Not eqipped,DTKX10017378,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.012,0.15,269,0.009,,0.0039,0.01,32.9,MPG,29.2,33.6,35.1,,29.389,0.46752,0.022244,7.016,0.285,0.021902,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPEG1-003,1,2,DTKXT02.05NM,Truck,154,4,3PEGAAM,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3750,4.62,33.3,1,Not eqipped,DTKX10017379,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.014,0.19,203,0.002,,0.0057,0.01,43.6,MPG,,,,,29.389,0.46752,0.022244,7.016,0.285,0.021902,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPES1-005,0,2,DTKXT02.05NM,Truck,155,4,3PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.62,33.7,1,Not eqipped,DTKX10017372,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.017,0.34,261,0.005,,0.0042,0.01,33.9,MPG,30.1,34.5,36.3,,27.535,0.28803,0.022826,10.186,0.13564,0.02267,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPES1-005,0,2,DTKXT02.05NM,Truck,155,4,3PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.62,33.7,1,Not eqipped,DTKX10017373,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.16,194,0.002,,0.0003,0.01,45.6,MPG,,,,,27.535,0.28803,0.022826,10.186,0.13564,0.02267,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPES1-005,1,2,DTKXT02.05NM,Truck,155,4,3PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.62,33.3,1,Not eqipped,DTKX10017374,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.012,0.19,257,0.005,,0.0031,0.01,34.4,MPG,31.1,34.7,36.8,,27.589,0.27479,0.023001,9.502,0.13156,0.022883,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-5,3EFPES1-005,1,2,DTKXT02.05NM,Truck,155,4,3PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.62,33.3,1,Not eqipped,DTKX10017375,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001,0.24,195,0.002,,0.0004,0.01,45.4,MPG,,,,,27.589,0.27479,0.023001,9.502,0.13156,0.022883,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 AWD,BJ53-3.7-C-219,1,3.7,BTKXT03.75BA,Truck,274,6,BJ51AT0505,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.46,27.8,1,Not eqipped,BTKX10010522,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0250525,0.33828,436.446,0.0165103,,0.0029224,,20.4,MPG,20.2054,19.427,22.458,,36.04,0.8954,0.02164,4.33,0.67926,0.02332,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 AWD,BJ53-3.7-C-219,1,3.7,BTKXT03.75BA,Truck,274,6,BJ51AT0505,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.46,27.8,1,Not eqipped,BTKX10010523,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0049775,0.0917543,292.68,0.0228037,,0.0020165,,30.3,MPG,,,,,36.04,0.8954,0.02164,4.33,0.67926,0.02332,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 AWD,BJ53-3.7-C-219,2,3.7,BTKXT03.75BA,Truck,274,6,BJ51AT0505,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.46,27.9,1,Not eqipped,BTKX10010598,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,20.5,MPG,,,,,31.36,0.9079,0.0213,31.36,0.9079,0.0213,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 AWD,BJ53-3.7-C-219,2,3.7,BTKXT03.75BA,Truck,274,6,BJ51AT0505,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,3.46,27.9,1,Not eqipped,BTKX10010599,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,30.7,MPG,,,,,31.36,0.9079,0.0213,31.36,0.9079,0.0213,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 FWD,BJ53-3.7-L-141,0,3.7,BTKXT03.75BA,Truck,273,6,BJ51FW0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.46,27.9,1,Not eqipped,BTKX10010596,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0179332,0.246025,406.68,0.0163871,,0.0029884,,21.8,MPG,22.0439,20.7744,23.9936,,32.7,0.5962,0.02125,0.913,0.48853,0.02125,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 FWD,BJ53-3.7-L-141,0,3.7,BTKXT03.75BA,Truck,273,6,BJ51FW0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.46,27.9,1,Not eqipped,BTKX10010597,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0094729,0.213607,262.889,0.0073311,,0.0036722,,33.8,MPG,,,,,32.7,0.5962,0.02125,0.913,0.48853,0.02125,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 FWD,BJ53-3.7-L-141,1,3.7,BTKXT03.75BA,Truck,273,6,BJ51FW0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.46,27.8,1,Not eqipped,BTKX10010106,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0267485,0.358783,431.101,0.0189114,,0.0040708,,20.6,MPG,20.8923,19.5029,22.755,,37.37,0.5833,0.0216,1.85,0.5558,0.02109,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,CX-9 FWD,BJ53-3.7-L-141,1,3.7,BTKXT03.75BA,Truck,273,6,BJ51FW0505,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.46,27.8,1,Not eqipped,BTKX10010470,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0166324,0.250133,271.369,0.0106272,,0.0061943,,32.8,MPG,,,,,37.37,0.5833,0.0216,1.85,0.5558,0.02109,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2ECPE31-012,0,2,CTKXV02.0NC1,Car,154,4,2PE3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,38.8,1,Not eqipped,CTKX10015165,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.2,163,0.002,,0.0004,,54.6,MPG,,,,,21.83,0.23544,0.016084,7.949,0.04692,0.016569,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2ECPE31-

012,0,2,CTKXV02.0NC1,Car,154,4,2PE3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,38.8,1,Not eqipped,CTKX10016046,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.006,0.23,258,0.007,,0.0014,,34.5,MPG,33.7,32.5,39.6,,21.83,0.23544,0.016084,7.949,0.04692,0.016569,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2ECPES1-011,0,2,CTKXV02.0NC1,Car,154,4,2PESAA1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016048,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.005,0.06,244,0.01,,0.001,,36.5,MPG,34.3,35.2,41.3,,24.368,0.16503,0.016413,7.773,-0.05748,0.01724,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2ECPES1-011,0,2,CTKXV02.0NC1,Car,154,4,2PESAA1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016049,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.15,153,0.002,,0.0004,,58.2,MPG,,,,,24.368,0.16503,0.016413,7.773,-0.05748,0.01724,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2EFPE31-010,0,2,CTKXV02.05NM,Car,155,4,2PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,38.8,1,Not eqipped,CTKX10016042,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.009,0.38,261,0.007,,0.003,,34.1,MPG,33.3,32.1,39.3,,21.83,0.23544,0.016084,8.546,0.03874,0.016646,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2EFPE31-010,0,2,CTKXV02.05NM,Car,155,4,2PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.1,38.8,1,Not eqipped,CTKX10016043,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02,0.4,160,0.002,,0.0078,,55.5,MPG,,,,,21.83,0.23544,0.016084,8.546,0.03874,0.016646,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2EFPES1-009,0,2,CTKXV02.05NM,Car,155,4,2PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016044,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.013,0.23,241,0.009,,0.0041,,36.9,MPG,33.8,36.2,41,,24.368,0.16503,0.016413,10.035,0.01814,0.01647,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 4-Door,2EFPES1-009,0,2,CTKXV02.05NM,Car,155,4,2PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016045,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.016,0.38,157,0.002,,0.0057,,56.5,MPG,,,,,24.368,0.16503,0.016413,10.035,0.01814,0.01647,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2ECPES2-018,2,2,CTKXV02.0NC1,Car,154,4,2PESAB1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX91001054,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0117458,0.1824476,247.0663809,0.0076283,,0.0021158,0.01,36,MPG,33.4493317,35.085282,40.2726958,,24.368,0.16503,0.017577,9.25,-0.0228,0.01811,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2ECPES2-018,2,2,CTKXV02.0NC1,Car,154,4,2PESAB1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX91001055,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0016188,0.1805832,162.0344031,0.0014691,,0.0010868,0.01,54.9,MPG,,,,,24.368,0.16503,0.017577,9.25,-0.0228,0.01811,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2EFPE31-010,1,2,CTKXV02.05NM,Car,155,4,2PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.1,38.8,1,Not eqipped,CTKX10016052,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01,0.6,257,0.008,,0.004,,34.5,MPG,33.2,33,39.1,,21.83,0.23544,0.017248,8.648,0.07837,0.017518,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2EFPE31-

010,1,2,CTKXV02.05NM,Car,155,4,2PE3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.1,38.8,1,Not eqipped,CTKX10016053,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.022,0.43,165,0.002,,0.0085,,53.8,MPG,,,,,21.83,0.23544,0.017248,8.648,0.07837,0.017518,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2EFPES1-009,1,2,CTKXV02.05NM,Car,155,4,2PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016054,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.013,0.18,243,0.009,,0.004,,36.6,MPG,33.9,35.8,40.9,,24.368,0.16503,0.017577,9.09,0.00852,0.017831,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda 3 DI 5-Door,2EFPES1-009,1,2,CTKXV02.05NM,Car,155,4,2PESAAM,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.59,29.9,1,Not eqipped,CTKX10016055,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.016,0.38,161,0.002,,0.0062,,55.1,MPG,,,,,24.368,0.16503,0.017577,9.09,0.00852,0.017831,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA2,1ECZYV21-002,0,1.5,BTKXV01.55BA,Car,100,4,1ZYV2AA1,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,3.85,44.9,1,Not eqipped,BTKX10008838,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00691,0.027,179.51,0.0056,,0.00173,0.01,49.6,MPG,,,,,20.817,0.24428,0.019841,7.055,0.14146,0.019718,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA2,1ECZYV21-002,0,1.5,BTKXV01.55BA,Car,100,4,1ZYV2AA1,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,3.85,44.9,1,Not eqipped,BTKX10009738,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02725,0.8748,231.95,0.0223,,0.00599,0.01,38.2,MPG,36.5774,37.4119,41.3274,,20.817,0.24428,0.019841,7.055,0.14146,0.019718,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA2,2EFZYVT1-014,0,1.5,CTKXV01.55BA,Car,100,4,2ZYVTAAM,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.15,43.3,1,Not eqipped,CTKX10015833,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.021,0.34,243,0.016,,0.003,0.01,36.6,MPG,33,36.8,38.8,,23.245,0.3407,0.01817,7.366,0.10322,0.019229,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA2,2EFZYVT1-014,0,1.5,CTKXV01.55BA,Car,100,4,2ZYVTAAM,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.15,43.3,1,Not eqipped,CTKX10015852,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006,0.07,186,0.001,,0.0013,0.01,47.9,MPG,,,,,23.245,0.3407,0.01817,7.366,0.10322,0.019229,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA3,0EFL5X31-003,2,2.5,ATKXV02.55NM,Car,167,4,0L5X3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.1,40.9,1,Not eqipped,ATKX01088861,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.059381,2.4707,339,0.00479,,,,25.6,MPG,,,,,27.6,0.439,0.018,10.44,0.2947,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA3,0EFL5X31-003,2,2.5,ATKXV02.55NM,Car,167,4,0L5X3AAM,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.1,40.9,1,Not eqipped,ATKX01088862,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.046831,1.2585,220,0.00061,,,,39.6,MPG,,,,,27.6,0.439,0.018,10.44,0.2947,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA3,0EFL5XS1-004,1,2.5,ATKXV02.55NM,Car,167,4,0L5XSAAM,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,34.8,1,Not eqipped,ATKX01088899,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.041696,0.9195,309,0.01087,,0.00673,0.01,28.3,MPG,26.4874,27.2906,32.3409,,30.84,0.3973,0.01945,13.63,0.0455,0.02094,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA3,0EFL5XS1-004,1,2.5,ATKXV02.55NM,Car,167,4,0L5XSAAM,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,34.8,1,Not

eqipped,ATKX01088900,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.033226,0.8257,216,0.00183,,0.00682,0.01,40.4,MPG,,,,,30.84,0.3973,0.0194
5,13.63,0.0455,0.02094,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,0EFLFX21-
001,0,2,ATKXV02.05NM,Car,148,4,0LFX2AAM,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.1,43.1,1,Not eqipped,ATKX01089299,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.020734,0.5261,269,0.00975,,,,32.4,MPG,,,,,23.03,0.293,0.0185,6.06,0.1419
,0.01875,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,0EFLFX21-
001,0,2,ATKXV02.05NM,Car,148,4,0LFX2AAM,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.1,43.1,1,Not eqipped,ATKX01089300,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.007493,0.0764,186,0.00216,,,,46.9,MPG,,,,,23.03,0.293,0.0185,6.06,0.1419
,0.01875,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,0EFLFXS1-002,0,2,ATKXV02.05NM,Car,148,4,0LFXSAAM,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.46,33.3,1,Not
eqipped,ATKX01089303,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.018512,0.1722,289,0.00569,,,,30.2,MPG,,,,,23.76,0.4561,0.0168,9.81,0.094
2,0.0179,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,0EFLFXS1-002,0,2,ATKXV02.05NM,Car,148,4,0LFXSAAM,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.46,33.3,1,Not
eqipped,ATKX01089304,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001785,0.01,187,0.0017,,,,46.7,MPG,,,,,23.76,0.4561,0.0168,9.81,0.0942,0
.0179,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,2ECPE31-
012,1,2,CTKXV02.0NC1,Car,154,4,2PE3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3250,4.1,38.8,1,Not eqipped,CTKX10016050,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.006,0.23,261,0.006,,0.0014,,34.1,MPG,33.2,32.2,39.2,,21.83,0.23544,0.017
248,7.092,0.08468,0.017464,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,Mazda,Mazda3,2ECPE31-
012,1,2,CTKXV02.0NC1,Car,154,4,2PE3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3250,4.1,38.8,1,Not eqipped,CTKX10016051,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001,0.22,164,0.002,,0.0012,,54.2,MPG,,,,,21.83,0.23544,0.017248,7.092,0.
08468,0.017464,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5X31-
002,0,2.5,CTKXV02.55BA,Car,157,4,2L5X3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,4.1,38.8,1,Not eqipped,CTKX10011488,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.018,0.73,329,0.005,,0.0041,,27,MPG,26.4854,25.7821,30.4942,,33.925,0.087
78,0.023083,14.456,-0.04855,0.023158,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5X31-
002,0,2.5,CTKXV02.55BA,Car,157,4,2L5X3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,4.1,38.8,1,Not eqipped,CTKX10011489,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01,0.2,218,0.002,,0.0036,,40.9,MPG,,,,,33.925,0.08778,0.023083,14.456,-
0.04855,0.023158,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5XS1-001,0,2.5,CTKXV02.55BA,Car,157,4,2L5XSAA1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.46,33.3,1,Not
eqipped,CTKX10011491,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.016,0.23,317,0.005,,0.0025,,28.1,MPG,26.0429,27.3823,31.6529,,31.245,0.1
9753,0.022944,10.324,-0.01592,0.023426,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5XS1-001,0,2.5,CTKXV02.55BA,Car,157,4,2L5XSAA1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.46,33.3,1,Not
eqipped,CTKX10011492,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01,0.07,214,0.002,,0.0027,,41.7,MPG,,,,,31.245,0.19753,0.022944,10.324,-
0.01592,0.023426,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5XS1-001,1,2.5,CTKXV02.55BA,Car,157,4,2L5XSAA1,SA,Semi-
Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.46,33,1,Not
eqipped,CTKX91000767,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.0129708,0.1133569,219.9126715,0.0022781,,0.0023658,0.01,40.3,MPG,,,,,34.059,0.18979,0.023476,12.191,-0.0549,0.024169,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5XS1-001,1,2.5,CTKXV02.55BA,Car,157,4,2L5XSAA1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.46,33,1,Not eqipped,CTKX91000768,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.021298,0.5134327,334.6911256,0.0042442,,0.0045247,0.01,26.4,MPG,24.8725685,25.720321,29.5213403,,34.059,0.18979,0.023476,12.191,-0.0549,0.024169,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA5,2ECL5XS1-001,1,2.5,CTKXV02.55BA,Car,157,4,2L5XSAA1,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.46,33,1,Not eqipped,CTKX91000769,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0532389,7.416487,355.449209,0.0062948,,0.0152028,,24.2,MPG,16.2334626,28.1188997,,,34.059,0.18979,0.023476,12.191,-0.0549,0.024169,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1ECL5X31-005,0,2.5,BTKXV02.55AA,Car,170,4,1L5X3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,39.1,1,Not eqipped,BTKX10009865,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01301,0.2,331.19,0.0157,,0.00379,,26.9,MPG,27.3553,24.9361,31.1945,,26.052,0.26182,0.019569,9.576,0.11346,0.01967,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1ECL5X31-005,0,2.5,BTKXV02.55AA,Car,170,4,1L5X3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,4.39,39.1,1,Not eqipped,BTKX10009866,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01769,0.244,210.39,0.0004,,0.00594,,42.4,MPG,,,,,26.052,0.26182,0.019569,9.576,0.11346,0.01967,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,0,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,BTKX91000701,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0249702,0.3908823,209.7150265,0.0022479,,0.0041488,0.01,42.2,MPG,,,,,26.995,0.32987,0.019389,8.272,0.09773,0.019799,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,0,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,BTKX91000702,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0226974,0.381785,336.0448558,0.0053789,,0.0046108,0.01,26.4,MPG,24.8368094,25.5899283,29.4774694,,26.995,0.32987,0.019389,8.272,0.09773,0.019799,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,1,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,BTKX10009871,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01435,0.411,318.87,0.0049,,0.00361,,27.9,MPG,25.8362,27.009,31.8528,,29.317,0.33626,0.018499,11.923,0.06965,0.018997,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,1,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,BTKX10010789,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01508,0.198,207.17,0.0019,,0.00403,,43.1,MPG,,,,,29.317,0.33626,0.018499,11.923,0.06965,0.018997,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,2,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.8,1,Not eqipped,BTKX10009873,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01499,0.499,328.07,0.0047,,0.00343,,27.2,MPG,25.2438,26.35,30.5507,,40.309,0.21025,0.02063,16.292,-0.02172,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MAZDA6,1EFL5XS1-004,2,2.5,BTKXV02.55AA,Car,170,4,1L5XSAAM,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.8,1,Not eqipped,BTKX10009874,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.02266,0.341,214.08,0.0023,,0.00514,,41.6,MPG,,,,,40.309,0.21025,0.02063,16.292,-0.02172,0.02087,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,Mazdaspeed3,0ECL3T31-012,0,2.3,ATKXV02.35BA,Car,263,4,0L3T3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.53,38.5,1,Not eqipped,ATKX10002312,No,21,Federal fuel 2-day

exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.018805,0.4382,388,0.02319,,,,22.8,MPG,,,,,33.856,0.72356,0.017412,12.701
,0.35264,0.019816,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,Mazdaspeed3,0ECL3T31-
012,0,2.3,ATKXV02.35BA,Car,263,4,0L3T3AA1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,3.53,38.5,1,Not eqipped,ATKX10002313,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.014502,0.1154,255,0.00491,,,,34.7,MPG,,,,,33.856,0.72356,0.017412,12.701
,0.35264,0.019816,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFN21,0,2,9TKXV02.05BA,Car,167,4,9LFN2AAM,M,Manual,5,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2750,4.1,48.3,1,Not eqipped,9TKX10000231,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.022134,0.5588,306,0.01504,,,,28.5,MPG,,,,,34.86,0.4213,0.01899,19.16,0.2
008,0.01963,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFN21,0,2,9TKXV02.05BA,Car,167,4,9LFN2AAM,M,Manual,5,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2750,4.1,48.3,1,Not eqipped,9TKX10000232,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0114,0.2049,225,0.00166,,,,38.8,MPG,,,,,34.86,0.4213,0.01899,19.16,0.200
8,0.01963,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFN31,0,2,9TKXV02.05BA,Car,167,4,9LFN3AAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,46.1,1,Not eqipped,9TKX10000235,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.023447,0.51,324,0.01509,,,,26.9,MPG,,,,,35.65,0.4308,0.01806,20.74,0.142
5,0.01903,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFN31,0,2,9TKXV02.05BA,Car,167,4,9LFN3AAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,46.1,1,Not eqipped,9TKX10000236,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.004835,0.096,224,0.00119,,,,39,MPG,,,,,35.65,0.4308,0.01806,20.74,0.1425
,0.01903,TWC,Three-way catalyst,N,,,N,No averaging

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,0,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.5,1,Not eqipped,9TKX10000237,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.020733,0.3924,316,0.019,,,,27.6,MPG,,,,,33.71,0.4806,0.01635,20.04,0.167
9,0.01699,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i)
/ WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,0,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.5,1,Not eqipped,9TKX10000238,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.003096,0.0494,217,0.00238,,,,40.2,MPG,,,,,33.71,0.4806,0.01635,20.04,0.1
679,0.01699,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,1,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.5,1,Not eqipped,9TKX10000239,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01443,0.2784,344,0.00788,,,,25.4,MPG,,,,,33.71,0.4806,0.01635,20.04,0.16
79,0.01699,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,1,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.5,1,Not eqipped,9TKX10000240,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.002984,0.0376,219,0.00217,,,,39.9,MPG,,,,,33.71,0.4806,0.01635,20.04,0.1
679,0.01699,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,2,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.1,1,Not eqipped,9TKX10000364,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.020675,0.7791,323,0.02735,,,,26.9,MPG,,,,,35.62,0.4007,0.01806,19.88,0.2
343,0.01786,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,2,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.1,1,Not eqipped,9TKX10000365,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.004636,0.0629,227,0.00673,,,,38.5,MPG,,,,,35.62,0.4007,0.01806,19.88,0.2
343,0.01786,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,3,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.1,1,Not eqipped,9TKX10000366,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.019011,0.4682,346,0.00991,,,,25.2,MPG,,,,,35.62,0.4007,0.01806,19.88,0.2
343,0.01786,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,MAZDA,TKX,MAZDA,MX-
5,9EFLFNS1,3,2,9TKXV02.05BA,Car,158,4,9LFNSAAM,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,2875,4.1,34.1,1,Not eqipped,9TKX10000367,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.006561,0.0874,227,0.00103,,,,38.4,MPG,,,,,35.62,0.4007,0.01806,19.88,0.2
343,0.01786,TWC,Three-way catalyst,N,1,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 250,W204E18DETC-
Z2017,1,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3750,3.07,31.3,1,Not eqipped,CMBX10020473,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03508,0.7374,322.51,0.018,,0.00917,,27.4,MPG,25.9,26.6,30.8,,30.469,0.36
532,0.014917,21.06,-0.402,0.022271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 250,W204E18DETC-
Z2017,1,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3750,3.07,31.3,1,Not eqipped,CMBX10020474,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.02865,0.5008,200.17,0.0135,,0.01207,,44.3,MPG,,,,,30.469,0.36532,0.01491
7,21.06,-0.402,0.022271,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 250 (Coupe),C204E18DETC-Z2017-
1,2,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3875,3.07,31.3,1,Not eqipped,CMBX10019980,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03782,0.7041,323.82,0.0114,,0.01046,,27.3,MPG,25.6,26.8,30.2,,30.469,0.3
6532,0.014917,17.87,-0.4009,0.022172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 250 (Coupe),C204E18DETC-Z2017-
1,2,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3875,3.07,31.3,1,Not eqipped,CMBX10019981,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0272,0.4006,199.96,0.0114,,0.01143,,44.3,MPG,,,,,30.469,0.36532,0.014917
,17.87,-0.4009,0.022172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3025-
6,0,3.498,DMBXV03.5U2B,Car,248,6,M276-35F-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX10021796,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0206,0.6323,356.18,0.0045,,0.00628,,24.9,MPG,25.8,23.1,28.2,,35.969,0.40
511,0.015354,20.768,-0.2381,0.021025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3025-
6,0,3.498,DMBXV03.5U2B,Car,248,6,M276-35F-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top

gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX10021797,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.06276,1.4882,231.78,0.0061,,0.01223,,37.9,MPG,,,,,35.969,0.40511,0.015354,20.768,-0.2381,0.021025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3025-6,0,3.498,DMBXV03.5U2B,Car,248,6,M276-35F-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX10021798,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.03659,0.5642,343.02,0.0149,,0.01427,,17.6,MPG,18,16.6,19.7,,35.969,0.40511,0.015354,20.768,-0.2381,0.021025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3025-6,0,3.498,DMBXV03.5U2B,Car,248,6,M276-35F-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX10021799,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.00097,0.0227,218.57,0.0256,,0.0008,,27.7,MPG,,,,,35.969,0.40511,0.015354,20.768,-0.2381,0.021025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3026-1,0,3.498,DMBXJ03.5S2A,Both,248,6,M276-35P-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX91001525,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0003388,0.0102648,228.772151,0.0033072,,0.0006751,0.01,39,MPG,,,,,35.969,0.40511,0.015354,20.224,-0.2496,0.020373,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3026-1,0,3.498,DMBXJ03.5S2A,Both,248,6,M276-35P-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX91001529,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0038147,0.450925,336.8406248,0.0038613,,0.0015848,0.01,26.4,MPG,16.999507,31.4357311,,,35.969,0.40511,0.015354,20.224,-0.2496,0.020373,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 300 4MATIC,W204E35DEH-Z3026-1,0,3.498,DMBXJ03.5S2A,Both,248,6,M276-35P-red,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,2.87,28.9,1,Not eqipped,DMBX91001530,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0075324,0.1176976,362.2445353,0.0043213,,0.0011687,0.01,24.6,MPG,24.9822935,23.2618945,27.3632617,,35.969,0.40511,0.015354,20.224,-0.2496,0.020373,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025,0,3.498,DMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021657,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04892,1.1862,350.85,0.0283,,0.00933,,25.2,MPG,25.6,23.7,28.3,,30.48,0.36553,0.014929,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025,0,3.498,DMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021658,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03412,1.1759,218.87,0.0056,,0.00756,,40.2,MPG,,,,,30.48,0.36553,0.014929,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025,0,3.498,DMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021659,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.01932,0.1517,332.34,0.0104,,0.0092,,18.3,MPG,18.9,16.9,20.8,,30.48,0.36553,0.014929,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025,0,3.498,DMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021660,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.0111,0.4397,203.81,0.0425,,0.0095,,29.7,MPG,,,,,30.48,0.36553,0.014929,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025-1,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021603,No,3,HWFE,61,Tier

2 Cert
Gasoline,HWY,0.03412,1.1759,218.87,0.0056,,0.00756,,40.2,MPG,,,,,30.48,0.36553,0.014929
,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-Z3025-
1,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021604,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.04892,1.1862,350.85,0.0283,,0.00933,,25.2,MPG,25.6,23.7,28.3,,30.48,0.36
553,0.014929,15.1,-0.3488,0.021776,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021236,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00579,0.1769,343.32,0.0032,,0.00113,,25.9,MPG,26.3,24.4,28.8,,30.48,0.36
553,0.014929,15.24,0.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021237,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00064,0.0023,223.25,0.004,,0,,39.9,MPG,,,,,30.48,0.36553,0.014929,15.24,
0.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not
eqipped,DMBX10021475,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0066,0.29869,342.18,0.00547,,,,26,MPG,16.9,30.7,,,30.48,0.36553,0.01492
9,15.24,0.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021782,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00531,0.1001,345.77,0.0035,,0.0008,,25.7,MPG,26.9,24.1,28.3,,30.48,0.365
53,0.014929,15.24,0.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021783,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00032,0.0068,216.51,0.0037,,0,,41,MPG,,,,,30.48,0.36553,0.014929,15.24,0
.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350,W204E35DEH-
Z3026,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not
eqipped,DMBX10021784,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01062,0.65404,333.67,0.00402,,,,26.5,MPG,16.8,31.8,,,30.48,0.36553,0.01
4929,15.24,0.0731,0.014929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350 (Coupe),C204E35DEH-Z3025-
2,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021331,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01481,0.5168,350.95,0.0039,,0.00306,,25.3,MPG,25.8,23.9,28,,30.48,0.3655
3,0.014929,16.912,-0.2598,0.020699,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350 (Coupe),C204E35DEH-Z3025-
2,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,2.82,28.7,1,Not eqipped,DMBX10021332,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.01304,1.302,220.32,0.0077,,0.00499,,40,MPG,,,,,30.48,0.36553,0.014929,16
.912,-0.2598,0.020699,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350 4Matic (Coupe),C204E35DEH-Z3025-
3,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.7,1,Not eqipped,DMBX10021411,No,21,Federal fuel 2-day exhaust

(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0103,0.2213,362.91,0.0158,,0.00274,,24.5,MPG,25.4,22.8,27.4,,35.97,0.405
11,0.015354,20.527,-0.3165,0.022201,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 350 4Matic (Coupe),C204E35DEH-Z3025-
3,0,3.498,DMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.7,1,Not eqipped,DMBX10021412,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03444,1.1159,233.29,0.0071,,0.0074,,37.9,MPG,,,,,35.97,0.40511,0.015354,
20.527,-0.3165,0.022201,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 63 AMG Black Series (coupe),C204E63-Z1011-
2,0,6.208,CMBXV06.3U2A,Car,510,8,M156-63,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4250,2.82,27.6,1,Not eqipped,CMBX10019107,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01609,0.2084,543.56,0.0113,,0.00386,,16.4,MPG,16.8,15,19.2,,37.868,0.695
48,0.013497,19.612,-0.1025,0.020722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,C 63 AMG Black Series (coupe),C204E63-Z1011-
2,0,6.208,CMBXV06.3U2A,Car,510,8,M156-63,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4250,2.82,27.6,1,Not eqipped,CMBX10019108,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0037,0.2015,332.7,0.0064,,0.00306,,26.8,MPG,,,,,37.868,0.69548,0.013497,
19.612,-0.1025,0.020722,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 550 4MATIC,C216E46DETC-Z2038-
3,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016236,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01835,0.1931,470.4,0.0246,,0.00595,,18.9,MPG,18.8,17.6,22,,39.259,1.0492
8,0.009382,19.338,0.304,0.015325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 550 4MATIC,C216E46DETC-Z2038-
3,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016237,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00145,0.0737,280.56,0.0068,,0.00129,,31.6,MPG,,,,,39.259,1.04928,0.00938
2,19.338,0.304,0.015325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 550 4MATIC,C216E46DETC-Z2038-
3,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016238,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.12617,0.96851,604.33,,,,,14.6,MPG,13.1,13.4,19.4,,43.621,1.16586,0.010425,14.0
89,0.2944,0.017287,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 550 4MATIC,C216E46DETC-Z2038-
3,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016239,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.04426,0.27826,583.55,0.01915,,,,15.2,MPG,,,,,39.259,1.04928,0.009382,19
.338,0.304,0.015325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 550 4MATIC,C216E46DETC-Z2038-
3,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016240,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.05279,0.72823,407.44,0.08755,,,,21.8,MPG,13.7,26.1,,,39.259,1.04928,0.0
09382,19.338,0.304,0.015325,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 600,C216E55TC-Z7014-
1,2,5.513,BMBXV06.0U2A,Car,510,12,M275-55TC-1,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,27.5,1,Not eqipped,BMBX91000839,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.026004,0.4584817,616.2928055,0.0321402,,0.0082747,0.01,14.4,MPG,13.90124
99,13.5133068,16.9282852,,34.631,1.04906,0.009159,12.814,0.47395,0.012652,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 600,C216E55TC-Z7014-
1,2,5.513,BMBXV06.0U2A,Car,510,12,M275-55TC-1,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,27.5,1,Not eqipped,BMBX91000841,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.006484,0.0790145,357.3861637,0.0166117,,0.0035958,0.01,24.9,MPG,,,,,34.6
31,1.04906,0.009159,12.814,0.47395,0.012652,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 63 AMG,C216E55DETC-Z2029,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10015706,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03331,0.4656,299.45,0.0145,,0.0095,,29.6,MPG,,,,,48.28,0.55593,0.013409,31.316,-0.3361,0.021555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 63 AMG,C216E55DETC-Z2029,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10015707,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.02688,0.39332,428.84,0.06019,,,,20.7,MPG,13.3,24.6,,,48.28,0.55593,0.013409,31.316,-0.3361,0.021555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 63 AMG,C216E55DETC-Z2029,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10015708,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01979,0.3267,582.49,0.00483,,,,15.3,MPG,,,,,48.28,0.55593,0.013409,31.316,-0.3361,0.021555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 63 AMG,C216E55DETC-Z2029,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10015709,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.13084,1.02403,585.58,,,,,15.1,MPG,13.7,14.3,18.4,,53.645,0.6177,0.014899,28.258,-0.3687,0.023424,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 63 AMG,C216E55DETC-Z2029,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10016082,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02012,0.1888,468.11,0.0291,,0.00418,,19,MPG,18.6,17.8,22,,48.28,0.55593,0.013409,31.316,-0.3361,0.021555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 65 AMG,C216E60TC-Z1017-1,1,5.98,CMBXV06.0U2A,Car,621,12,M275-60TC,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,27.6,1,Not eqipped,CMBX10014979,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01593,0.44869,588.7,0.032,,,,15.1,MPG,14.3,14.2,17.9,,50.848,0.58991,0.013485,30.776,-0.17268,0.020786,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 65 AMG,C216E60TC-Z1017-1,1,5.98,CMBXV06.0U2A,Car,621,12,M275-60TC,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,27.6,1,Not eqipped,CMBX10014980,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01819,0.36629,591.87,0.0224,,,,15,MPG,14.7,14,17.7,,50.848,0.58991,0.013485,30.776,-0.17268,0.020786,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CL 65 AMG,C216E60TC-Z1017-1,1,5.98,CMBXV06.0U2A,Car,621,12,M275-60TC,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,2.65,27.6,1,Not eqipped,CMBX10014981,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01143,0.2052,350.73,0.0021,,,,25.3,MPG,,,,,50.848,0.58991,0.013485,30.776,-0.17268,0.020786,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550,C218E46DETC-Z2022,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.1,1,Not eqipped,CMBX10014845,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.08626,0.32477,535.49,0.00724,,,,16.6,MPG,,,,,26.693,0.7393,0.010859,10.721,0.0184,0.016874,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550,C218E46DETC-Z2022,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.1,1,Not eqipped,CMBX10014846,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.14162,0.92892,470.98,,,,,18.7,MPG,14.9,18.6,23.2,,29.659,0.82145,0.012066,10.721,0.0184,0.016874,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550,C218E46DETC-Z2022,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.1,1,Not eqipped,CMBX91000998,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0295095,0.2015645,423.024535,0.0251266,,0.0079389,0.01,21,MPG,20.3492163,19.9121669,24.1986678,,26.693,0.7393,0.010859,10.721,0.0184,0.016874,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550,C218E46DETC-Z2022,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.1,1,Not eqipped,CMBX91000999,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0015425,0.0634497,247.2729616,0.0138886,,0.0008813,0.01,36,MPG,,,,,26.693,0.7393,0.010859,10.721,0.0184,0.016874,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550,C218E46DETC-Z2022,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.1,1,Not eqipped,CMBX91001000,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.1008849,0.7379818,394.499384,0.0634308,,0.0340883,,22.5,MPG,14.3251285,26.828849,,,26.693,0.7393,0.010859,10.721,0.0184,0.016874,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550 4MATIC,C218E46DETC-Z2022-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.1,1,Not eqipped,CMBX10016450,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02074,0.3886,432.75,0.02,,0.00727,,20.5,MPG,20.2,19.3,23.3,,37.823,0.78192,0.011069,22.371,0.0754,0.017101,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550 4MATIC,C218E46DETC-Z2022-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.1,1,Not eqipped,CMBX10016451,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.17955,1.4154,505.25,0.00751,,,,17.5,MPG,,,,,37.823,0.78192,0.011069,22.371,0.0754,0.017101,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550 4MATIC,C218E46DETC-Z2022-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.1,1,Not eqipped,CMBX10016452,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.08771,0.9027,495.17,,,,,17.8,MPG,15.3,17.1,22.3,,42.025,0.8688,0.012298,20.732,0.1394,0.01812,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550 4MATIC,C218E46DETC-Z2022-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.1,1,Not eqipped,CMBX10016455,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00251,0.1216,263.8,0.0035,,0.00157,,33.7,MPG,,,,,37.823,0.78192,0.011069,22.371,0.0754,0.017101,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 550 4MATIC,C218E46DETC-Z2022-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.1,1,Not eqipped,CMBX10016456,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.01539,0.3387,396.95,0.01762,,,,22.4,MPG,14.3,26.7,,,37.823,0.78192,0.011069,22.371,0.0754,0.017101,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 63 AMG,C218E55DETC-Z2023,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX10014774,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00959,0.179,488.77,0.00417,,,,18.2,MPG,,,,,33.703,0.75401,0.009945,18.32,-0.0923,0.017293,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 63 AMG,C218E55DETC-Z2023,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX10014776,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0169,0.291,390.76,0.01998,,,,22.7,MPG,14.8,26.9,,,33.703,0.75401,0.009945,18.32,-0.0923,0.017293,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 63 AMG,C218E55DETC-

Z2023,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX91000937,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022903,0.0471186,277.8843057,0.0262991,,0.00096,0.01,32,MPG,,,,,33.703,0.75401,0.009945,18.32,-0.0923,0.017293,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,CLS 63 AMG,C218E55DETC-Z2023,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX91000938,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0156018,0.0984222,464.1672906,0.0382617,0.0008674,0.003672,0.01,19.2,MPG,18.677041,18.1281785,22.0313005,,33.703,0.75401,0.009945,18.32,-0.0923,0.017293,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2004,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10016412,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0214,0.2477,358.37,0.0151,,0.00547,,24.8,MPG,24.9,23.3,27.9,,28.139,0.47484,0.012712,6,0.1,0.014999,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2004,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10016413,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01175,0.0892,212.24,0.0056,,0.0037,,41.9,MPG,,,,,28.139,0.47484,0.012712,6,0.1,0.014999,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2004,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10021800,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.0166,0.1009,342.81,0.0228,,0.0091,,17.7,MPG,17.9,16.6,20.2,,28.139,0.47484,0.012712,6,0.1,0.014999,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2004,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10021801,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.001,0.071,193.48,0.004,,0.00048,,31.4,MPG,,,,,28.139,0.47484,0.012712,6,0.1,0.014999,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2031,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10017778,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00917,0.0188,366.71,0.0108,,0.00113,,24.3,MPG,24.4,22.6,28.1,,28.149,0.47511,0.012722,14.19,-0.2623,0.019476,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2031,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10017779,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00113,0.0032,209.33,0.0034,,0,,42.7,MPG,,,,,28.149,0.47511,0.012722,14.19,-0.2623,0.019476,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350,W212E35DEH-Z2031,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,CMBX10017780,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00917,0.27858,344.63,0.00805,,,,25.9,MPG,15.7,31.6,,,28.149,0.47511,0.012722,14.19,-0.2623,0.019476,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Convertible),A207E35DEH-Z2035-2,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10017333,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01094,0.1856,371.39,0.008,,0.00257,,24.1,MPG,24.1,22.4,27.5,,35.807,0.62457,0.011307,21.397,-0.0536,0.017013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Convertible),A207E35DEH-Z2035-2,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10017334,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01706,2.8495,224.09,0.0047,,0.00676,,39.1,MPG,,,,,35.807,0.62457,0.011307,21.397,-0.0536,0.017013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Convertible),A207E35DEH-Z2035-2,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10017338,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.04136,2.0518,229.53,0.0047,,0.01046,,26.5,MPG,,,,,35.807,0.62457,0.011307,21.397,-0.0536,0.017013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Convertible),A207E35DEH-Z2035-2,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10017339,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.02928,0.1369,372.7,0.0082,,0.00767,,16.6,MPG,16.8,15.5,18.7,,35.807,0.62457,0.011307,21.397,-0.0536,0.017013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2030,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017511,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00724,0.0311,367.72,0.0109,,0.00097,,24.3,MPG,24.4,22.7,27.4,,33.761,0.60882,0.010428,19.936,0.05,0.015208,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2030,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017512,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00306,0.0019,220.58,0.0039,,0.00032,,40.4,MPG,,,,,33.761,0.60882,0.010428,19.936,0.05,0.015208,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2030,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017515,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.01722,0.16158,336.72,0.00338,,,,26.5,MPG,16.7,31.7,,,33.761,0.60882,0.010428,19.936,0.05,0.015208,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2035,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017156,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00982,0.1154,363.33,0.008,,0.00145,,24.6,MPG,24.9,23,27.6,,33.761,0.60882,0.010428,19.262,-0.0835,0.016664,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2035,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017157,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02543,2.7274,219.92,0.0042,,0.0074,,39.8,MPG,,,,,33.761,0.60882,0.010428,19.262,-0.0835,0.016664,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2035,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017161,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.01728,0.0596,345.42,0.012,,0.00612,,18.2,MPG,18.4,17.1,20.7,,33.761,0.60882,0.010428,19.262,-0.0835,0.016664,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 (Coupe),C207E35DEH-Z2035,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,2.82,28.4,1,Not eqipped,CMBX10017162,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.00789,1.1158,211.24,0.0048,,0.00644,,29.6,MPG,,,,,33.761,0.60882,0.010428,19.262,-0.0835,0.016664,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4 MATIC,W212E35DEH-Z2004-
1,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10016597,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02301,0.2482,372.64,0.014,,0.00579,,23.8,MPG,24.2,22.4,26.6,,36.588,0.45
425,0.013364,14.448,0.0794,0.015651,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4 MATIC,W212E35DEH-Z2004-
1,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10016598,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01416,0.1522,222.23,0.006,,0.00402,,40,MPG,,,,,36.588,0.45425,0.013364,1
4.448,0.0794,0.015651,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4 MATIC,W212E35DEH-Z2004-
1,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10021827,No,21,Federal fuel 2-day exhaust
(w/can load),44,E85 (85% Ethanol 15% CAL Phase II
Gasoline),FTP,0.01616,0.1164,353.07,0.0213,,0.00874,,17.2,MPG,17.5,16.1,19.4,,36.588,0.
45425,0.013364,14.448,0.0794,0.015651,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4 MATIC,W212E35DEH-Z2004-
1,0,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10021828,No,3,HWFE,44,E85 (85% Ethanol 15%
CAL Phase II
Gasoline),HWY,0.00129,0.1164,211.07,0.0035,,0.00097,,28.7,MPG,,,,,36.588,0.45425,0.0133
64,14.448,0.0794,0.015651,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC,W212E35DEH-Z2031-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10017531,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00563,0.0201,368.43,0.0143,,0.00129,,24.3,MPG,23.9,23,27,,36.601,0.48453
,0.013374,21.507,-0.2614,0.020367,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC,W212E35DEH-Z2031-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10017532,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00097,0.0034,222.36,0.005,,0.00032,,40.2,MPG,,,,,36.601,0.48453,0.013374
,21.507,-0.2614,0.020367,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC,W212E35DEH-Z2031-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4500,2.87,28.1,1,Not eqipped,CMBX10017533,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01191,0.23738,359.32,0.00933,,,,24.9,MPG,15.6,29.7,,,36.601,0.48453,0.0
13374,21.507,-0.2614,0.020367,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2030-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017554,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00563,0.0533,373.5,0.0074,,0.00097,,23.9,MPG,24.1,22.4,27,,39.692,0.5582
5,0.011342,24.077,0.0266,0.015686,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2030-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017555,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00064,0.0076,227.45,0.0023,,0.00032,,39.4,MPG,,,,,39.692,0.55825,0.01134
2,24.077,0.0266,0.015686,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2030-
1,0,3.498,CMBXV03.5S2A,Car,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017556,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00563,0.08755,342.9,0.00322,,,,26,MPG,16.2,31.4,,,39.692,0.55825,0.0113
42,24.077,0.0266,0.015686,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2035-
1,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017475,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01448,0.1469,376.57,0.0089,,0.00257,,23.7,MPG,24,22.1,27,,39.692,0.55825

,0.011342,26.46,-0.0978,0.016944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2035-1,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017476,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.05391,3.1456,227.77,0.0047,,0.00982,,38.3,MPG,,,,,39.692,0.55825,0.011342,26.46,-0.0978,0.016944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2035-1,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017480,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.016,0.0545,359.49,0.015,,0.00623,,17.5,MPG,17.8,16.4,18.9,,39.692,0.55825,0.011342,26.46,-0.0978,0.016944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Coupe),C207E35DEH-Z2035-1,0,3.498,CMBXJ03.5U2B,Both,302,6,M276-35F,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,2.87,28.9,1,Not eqipped,CMBX10017481,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.00612,1.1436,222.01,0.0051,,0.00402,,28.1,MPG,,,,,39.692,0.55825,0.011342,26.46,-0.0978,0.016944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Station Wagon),S212E35DEH-Z2004-2,1,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.87,28.1,1,Not eqipped,CMBX10016540,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01996,0.247,383.17,0.0148,,0.0049,,23.3,MPG,23.4,22.1,25.6,,32.523,0.63029,0.015232,10.384,0.2555,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 4MATIC (Station Wagon),S212E35DEH-Z2004-2,1,3.498,CMBXV03.5U2A,Car,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.87,28.1,1,Not eqipped,CMBX10016542,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03573,0.2245,236.41,0.0077,,0.00049,,37.8,MPG,,,,,32.523,0.63029,0.015232,10.384,0.2555,0.01752,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016995,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0412,0.0811,372.61,0.0201,0.0005,0.03347,,27.3,MPG,23.2,27.9,30.1,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016995,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0412,0.0811,372.61,0.0201,0.0005,0.03347,,27.3,MPG,23.2,27.9,30.1,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016995,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0412,0.0811,372.61,0.0201,0.0005,0.03347,,27.3,MPG,23.2,27.9,30.1,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016997,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.01255,0.0045,223.44,0.0005,,0.01175,,45.6,MPG,,,,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016997,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.01255,0.0045,223.44,0.0005,,0.01175,,45.6,MPG,,,,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 350 BLUETEC,W212DE30TC-Z0016,2,2.987,CMBXV03.0U2B,Car,210,6,OM642-30A,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,26,1,Not eqipped,CMBX10016997,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.01255,0.0045,223.44,0.0005,,0.01175,,45.6,MPG,,,,,40.855,0.33712,0.015581,21.42,-0.2559,0.02007,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022117,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00064,0.0558,208.44,0.0018,,0.00032,,42.7,MPG,,,,,29.326,0.53998,0.01175,5.411,0.29052,0.013124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022118,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.08546,0.7514,378.97,,,,,23.5,MPG,19,23.5,28.3,,32.585,0.59998,0.013055,14.352,-0.10152,0.019616,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022226,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00612,0.0797,282.57,0.0055,,0.00145,,31.4,MPG,27.9583,31.46903,34.16012,31.88381,29.326,0.53998,0.01175,5.411,0.29052,0.013124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022572,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00048,0.0047,215.86,0.0037,,0.00032,,41.2,MPG,,,,,29.326,0.53998,0.01175,5.411,0.29052,0.013124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022575,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.03524,1.64524,322.35,0.00499,,,,27.4,MPG,17.1772,32.87589,,,29.326,0.53998,0.01175,5.411,0.29052,0.013124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 400 HYBRID,W212E35DEH Hyb-Z3017,1,3.498,DMBXV03.5HY2,Car,302,6,M276-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,28.1,1,Not eqipped,DMBX10022576,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00129,0.0692,320.03,0.00515,,,,27.8,MPG,,,,,29.326,0.53998,0.01175,5.411,0.29052,0.013124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Convertible),A207E46DETC-Z2028-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.9,1,Not eqipped,CMBX10016648,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02398,0.3645,413.12,0.0266,,0.00724,,21.5,MPG,20.8,20.5,24.4,,35.807,0.62457,0.011307,24.234,-0.1531,0.017724,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Convertible),A207E46DETC-Z2028-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.9,1,Not eqipped,CMBX10016649,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0074,0.1297,249.01,0.006,,0.00306,,35.7,MPG,,,,,35.807,0.62457,0.011307,24.234,-0.1531,0.017724,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Convertible),A207E46DETC-Z2028-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.9,1,Not eqipped,CMBX10016650,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.00692,0.47395,385.5,0.01304,,,,23,MPG,14.8,27.4,,,35.807,0.62457,0.0113

07,24.234,-0.1531,0.017724,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Convertible),A207E46DETC-Z2028-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.9,1,Not eqipped,CMBX10016651,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.12859,1.4872,484.62,,,,,18.1,MPG,14.7,18,22.3,,39.785,0.69397,0.012564,27.674,-0.0617,0.01883,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Convertible),A207E46DETC-Z2028-1,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.47,24.9,1,Not eqipped,CMBX10016652,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.05681,1.25513,621.9,0.0111,,,,14.3,MPG,,,,,35.807,0.62457,0.011307,24.234,-0.1531,0.017724,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Coupe),C207E46DETC-Z2028,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.47,24.9,1,Not eqipped,CMBX10016475,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01497,0.4215,409.02,0.0232,,0.00563,,21.7,MPG,21.2,20.5,24.8,,33.761,0.60882,0.010428,21.849,-0.1525,0.016961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Coupe),C207E46DETC-Z2028,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.47,24.9,1,Not eqipped,CMBX10016476,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00129,0.1186,240.37,0.008,,0.00048,,37,MPG,,,,,33.761,0.60882,0.010428,21.849,-0.1525,0.016961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Coupe),C207E46DETC-Z2028,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.47,24.9,1,Not eqipped,CMBX10016477,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.03235,0.46381,358.4,0.05826,,,,24.8,MPG,15.7,29.6,,,33.761,0.60882,0.010428,21.849,-0.1525,0.016961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Coupe),C207E46DETC-Z2028,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.47,24.9,1,Not eqipped,CMBX10016478,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0177,0.56955,520.17,0.00772,,,,17.1,MPG,,,,,33.761,0.60882,0.010428,21.849,-0.1525,0.016961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 (Coupe),C207E46DETC-Z2028,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.47,24.9,1,Not eqipped,CMBX10016479,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.12633,1.40399,472.57,,,,,18.6,MPG,14.8,18.6,23.1,,37.513,0.67647,0.011587,24.819,-0.0728,0.017514,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 4MATIC,W212E46DETC-Z2022-2,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.2,1,Not eqipped,CMBX10016616,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02108,0.4567,437.37,0.0199,,0.00737,,20.3,MPG,20.4,18.9,23.4,,36.601,0.48453,0.013374,17.488,-0.1884,0.019494,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 4MATIC,W212E46DETC-Z2022-2,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.2,1,Not eqipped,CMBX10016617,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.0692,255.74,0.005,,0.00088,,34.7,MPG,,,,,36.601,0.48453,0.013374,17.488,-0.1884,0.019494,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 4MATIC,W212E46DETC-Z2022-2,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,2.47,24.2,1,Not eqipped,CMBX10016618,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.04462,1.0028,525.4,0.00698,,,,16.9,MPG,,,,,36.601,0.48453,0.013374,17.488,-0.1884,0.019494,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 4MATIC,W212E46DETC-Z2022-
2,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4750,2.47,24.2,1,Not eqipped,CMBX10016619,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.18168,1.6428,491.95,,,,,17.8,MPG,14.6,17.4,22.9,,40.668,0.53837,0.01486,17.776
,-0.1565,0.021031,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 550 4MATIC,W212E46DETC-Z2022-
2,0,4.664,CMBXV05.5U2B,Car,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,4750,2.47,24.2,1,Not eqipped,CMBX10016620,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.02784,0.3335,380.3,0.02401,,,,23.4,MPG,14.9,27.9,,,36.601,0.48453,0.013
374,17.488,-0.1884,0.019494,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG,W212E55DETC-Z2023-
1,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX10016387,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01041,0.095,462.37,0.0282,,0.00367,,19.2,MPG,19,17.7,22.9,,34.347,0.6832
6,0.01175,18.326,-0.1271,0.018259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG,W212E55DETC-Z2023-
1,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX10016388,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.03243,0.2867,281.97,0.0064,,0.00953,,31.5,MPG,,,,,34.347,0.68326,0.01175
,18.326,-0.1271,0.018259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG,W212E55DETC-Z2023-
1,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not
eqipped,CMBX10016389,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.02055,0.2566,522.94,0.00335,,,,17,MPG,,,,,34.347,0.68326,0.01175,18.326
,-0.1271,0.018259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG,W212E55DETC-Z2023-
1,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not
eqipped,CMBX10016390,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0293,0.4137,385.84,0.02568,,,,23,MPG,15.5,26.5,,,34.347,0.68326,0.01175
,18.326,-0.1271,0.018259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG,W212E55DETC-Z2023-
1,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.65,25.9,1,Not eqipped,CMBX10016391,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.09567,0.7888,538.05,,,,,16.4,MPG,15.2,15.1,21.1,,38.164,0.75918,0.013055,14.29
8,-0.1109,0.020245,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG (Station Wagon),S212E55DETC-Z2023-
2,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,2.65,25.9,1,Not eqipped,CMBX10016622,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01619,0.1802,467.77,0.0296,,0.00529,,19,MPG,18.9,17.7,22.1,,43.458,0.165
73,0.019767,22.342,-0.4316,0.024356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG (Station Wagon),S212E55DETC-Z2023-
2,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,2.65,25.9,1,Not eqipped,CMBX10016623,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.02653,0.3052,286.65,0.0076,,0.00736,,30.9,MPG,,,,,43.458,0.16573,0.01976
7,22.342,-0.4316,0.024356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG (Station Wagon),S212E55DETC-Z2023-
2,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4750,2.65,25.9,1,Not
eqipped,CMBX10016624,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.04195,0.88,424.53,0.08968,,,,20.9,MPG,12.8,25.5,,,43.458,0.16573,0.0197
67,22.342,-0.4316,0.024356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG (Station Wagon),S212E55DETC-Z2023-

2,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.65,25.9,1,Not eqipped,CMBX10016625,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.02243,0.321,504.18,0.00584,,,,17.6,MPG,,,,,43.458,0.16573,0.019767,22.342,-0.4316,0.024356,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,E 63 AMG (Station Wagon),S212E55DETC-Z2023-2,0,5.461,CMBXV05.5U2B,Car,518,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.65,25.9,1,Not eqipped,CMBX10016626,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.09207,0.8498,544.38,,,,,16.2,MPG,15,15,20.6,,48.287,0.18415,0.021964,22.998,-0.8466,0.031832,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,G 550,G463E55-Z3028,0,5.461,DMBXT05.5U2B,Truck,382,8,M273-55,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.38,41.3,1,Not eqipped,DMBX10021207,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.028,0.1381,615.61,0.0275,,0.00676,,14.4,MPG,13.8,14,15.8,,59.177,0.58526,0.041194,30.956,-0.68018,0.052164,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,G 550,G463E55-Z3028,0,5.461,DMBXT05.5U2B,Truck,382,8,M273-55,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.38,41.3,1,Not eqipped,DMBX10021208,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03508,0.2375,436.84,0.0098,,0.01368,,20.3,MPG,,,,,59.177,0.58526,0.041194,30.956,-0.68018,0.052164,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022169,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.0142,280.47,0.0078,0.0034,0.00333,,36.3,MPG,,,,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022169,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.0142,280.47,0.0078,0.0034,0.00333,,36.3,MPG,,,,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022169,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.0142,280.47,0.0078,0.0034,0.00333,,36.3,MPG,,,,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022170,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.033,0.1278,423.1,0.0229,0.0032,0.02342,,24,MPG,20.5,24.9,25.7,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022170,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.033,0.1278,423.1,0.0229,0.0032,0.02342,,24,MPG,20.5,24.9,25.7,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 350 BLUETEC 4MATIC,X166DE30TC-Z3029-1,1,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10022170,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.033,0.1278,423.1,0.0229,0.0032,0.02342,,24,MPG,20.5,24.9,25.7,,47.569,0.93096,0.020664,27.359,-0.1568,0.030982,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 450 4MATIC,X166E46DETC-Z3030,0,4.664,DMBXT05.5U2A,Truck,362,8,M278-46DETCred,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.3,1,Not eqipped,DMBX10021462,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.03832,1.0744,513.88,0.0213,,0.01646,,17.3,MPG,16.7,16.6,19.4,,47.569,0.93096,0.020664,23.493,0.1194,0.028129,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 450 4MATIC,X166E46DETC-Z3030,0,4.664,DMBXT05.5U2A,Truck,362,8,M278-46DETCred,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.3,1,Not eqipped,DMBX10021463,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.10778,2.2113,337.29,0.048,,0.0208,,26.2,MPG,,,,,47.569,0.93096,0.020664,23.493,0.1194,0.028129,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 450 4MATIC,X166E46DETC-Z3030,0,4.664,DMBXT05.5U2A,Truck,362,8,M278-46DETCred,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.3,1,Not eqipped,DMBX10021466,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.22436,2.3183,593.25,,,,,14.8,MPG,12.7,14.5,17.6,,52.855,1.0344,0.02296,23.29,0.30427,0.028804,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 450 4MATIC,X166E46DETC-Z3030,0,4.664,DMBXT05.5U2A,Truck,362,8,M278-46DETCred,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.3,1,Not eqipped,DMBX10021468,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.10065,2.8669,521.42,0.24259,,,,17,MPG,10.9,20.1,,,47.569,0.93096,0.020664,23.493,0.1194,0.028129,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 450 4MATIC,X166E46DETC-Z3030,0,4.664,DMBXT05.5U2A,Truck,362,8,M278-46DETCred,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.3,1,Not eqipped,DMBX10021712,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.03533,0.8358,616.32,0.02928,,,,14.4,MPG,,,,,47.569,0.93096,0.020664,23.493,0.1194,0.028129,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 550 4MATIC,X166E46DETC-Z3030-1,0,4.664,DMBXT05.5U2A,Truck,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10021685,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.15311,1.7158,604.77,,,,,14.5,MPG,12.7,14.5,16.4,,60.536,1.0271,0.024713,30.619,0.2019,0.031284,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 550 4MATIC,X166E46DETC-Z3030-1,0,4.664,DMBXT05.5U2A,Truck,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10021688,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02487,0.9611,537.48,0.0228,,0.01263,,16.6,MPG,16.5,15.8,18.3,,54.482,0.93096,0.022242,26.707,0.1703,0.0286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 550 4MATIC,X166E46DETC-Z3030-1,0,4.664,DMBXT05.5U2A,Truck,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10021689,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.09594,1.6069,358.2,0.0479,,0.01808,,24.7,MPG,,,,,54.482,0.93096,0.022242,26.707,0.1703,0.0286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 550 4MATIC,X166E46DETC-Z3030-1,0,4.664,DMBXT05.5U2A,Truck,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10021690,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.02603,1.1479,634.79,0.03205,,,,14,MPG,,,,,54.482,0.93096,0.022242,26.707,0.1703,0.0286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 550 4MATIC,X166E46DETC-Z3030-1,0,4.664,DMBXT05.5U2A,Truck,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.46,28.8,1,Not eqipped,DMBX10021691,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.08418,1.922,532.22,0.1424,,,,16.7,MPG,11.5,19.2,,,54.482,0.93096,0.022242,26.707,0.1703,0.0286,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,G463E55DETC-Z3023,0,5.461,DMBXT05.5U2A,Truck,536,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.11,33.6,1,Not eqipped,DMBX10020905,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.17349,1.31838,736.6,,,,,12.1,MPG,10,12.4,13.6,,64.419,0.6518,0.049139,32.215,0.13035,0.048141,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,G463E55DETC-Z3023,0,5.461,DMBXT05.5U2A,Truck,536,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.11,33.6,1,Not eqipped,DMBX10020912,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01819,0.3623,598.79,0.0401,,0.00531,,14.9,MPG,12.9,15.2,16.1,,57.977,0.5866,0.043325,35.25,-0.63061,0.053142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,G463E55DETC-Z3023,0,5.461,DMBXT05.5U2A,Truck,536,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.11,33.6,1,Not eqipped,DMBX10020916,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02961,0.7926,429.53,0.0142,,0.00837,,20.7,MPG,,,,,57.977,0.5866,0.043325,35.25,-0.63061,0.053142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,G463E55DETC-Z3023,0,5.461,DMBXT05.5U2A,Truck,536,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.11,33.6,1,Not eqipped,DMBX10020919,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.01786,0.30352,709.06,0.014,,,,12.5,MPG,,,,,57.977,0.5866,0.043325,35.25,-0.63061,0.053142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,G463E55DETC-Z3023,0,5.461,DMBXT05.5U2A,Truck,536,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,4.11,33.6,1,Not eqipped,DMBX10020924,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.05955,1.71025,638.69,0.03814,,,,13.9,MPG,10.7,15.2,,,57.977,0.5866,0.043325,35.25,-0.63061,0.053142,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,X166E55DETC-Z2015-1,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.47,28.8,1,Not eqipped,CMBX10020932,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.09415,1.06249,652.36,,,,,13.6,MPG,11.2,13.7,16.2,,60.536,1.0271,0.024713,38.15,0.08484,0.033468,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,X166E55DETC-Z2015-1,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.47,28.8,1,Not eqipped,CMBX10020943,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03154,0.3698,541.05,0.0323,,0.00467,,16.4,MPG,15.9,15.6,18.8,,54.482,0.92439,0.022242,34.666,-0.00957,0.030836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,X166E55DETC-Z2015-1,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.47,28.8,1,Not eqipped,CMBX10020945,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02092,0.6399,365.5,0.0254,,0.00692,,24.2,MPG,,,,,54.482,0.92439,0.022242,34.666,-0.00957,0.030836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,X166E55DETC-Z2015-1,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.47,28.8,1,Not eqipped,CMBX10020946,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00853,0.28791,642.53,0.01674,,,,13.8,MPG,,,,,54.482,0.92439,0.022242,34.666,-0.00957,0.030836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GL 63 AMG,X166E55DETC-Z2015-1,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.47,28.8,1,Not eqipped,CMBX10020947,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0449,1.36376,566.33,0.06196,,,,15.6,MPG,10.7,18,,,54.482,0.92439,0.022242,34.666,-0.00957,0.030836,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350,X204E35DEH-Z3013-1,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,25.1,1,Not eqipped,DMBX10021600,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00547,0.1233,363.5,0.0045,,0.00113,,24.4,MPG,24,23.7,26.3,,40.17,0.57062,0.019866,20.734,-0.0793,0.02566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350,X204E35DEH-Z3013-1,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.82,25.1,1,Not eqipped,DMBX10021601,No,3,HWFE,61,Tier

2 Cert
Gasoline,HWY,0.0008,0.0124,247.73,0.0055,,0.00048,,35.8,MPG,,,,,40.17,0.57062,0.019866,
20.734,-0.0793,0.02566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350,X204E35DEH-Z3013-
1,0,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.82,25.1,1,Not
eqipped,DMBX10021602,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00628,0.45577,386.82,0.00869,,,,22.9,MPG,15.4,26.6,,,40.17,0.57062,0.01
9866,20.734,-0.0793,0.02566,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350,X204E35DEH-Z3015-
1,0,3.498,DMBXV03.5BN4,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.82,25.1,1,Not eqipped,DMBX10021318,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02108,0.3832,368.56,0.00644,,0.00612,,24,MPG,23.9,23.1,26.4,,40.17,0.570
62,0.019866,21.114,-0.1304,0.026597,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350,X204E35DEH-Z3015-
1,0,3.498,DMBXV03.5BN4,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,2.82,25.1,1,Not eqipped,DMBX10021320,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0338,0.21646,254.6,0.00789,,0.00837,,34.8,MPG,,,,,40.17,0.57062,0.019866
,21.114,-0.1304,0.026597,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350 4MATIC,X204E35DEH-
Z3013,1,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4500,3.27,29.1,1,Not eqipped,DMBX10021476,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00595,0.1334,368.85,0.004,,0.00145,,24.1,MPG,23.9,23.3,25.9,,42.007,0.63
585,0.02088,21.86,-0.0812,0.027931,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350 4MATIC,X204E35DEH-
Z3013,1,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4500,3.27,29.1,1,Not eqipped,DMBX10021477,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00531,0.0418,263.79,0.0032,,0.00306,,33.7,MPG,,,,,42.007,0.63585,0.02088
,21.86,-0.0812,0.027931,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350 4MATIC,X204E35DEH-
Z3013,1,3.498,DMBXJ03.5S2A,Both,302,6,M276-35P,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4500,3.27,29.1,1,Not eqipped,DMBX10021478,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.00917,0.41409,398.39,0.00338,,,,22.3,MPG,15.3,25.6,,,42.007,0.63585,0.0
2088,21.86,-0.0812,0.027931,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350 4MATIC,X204E35DEH-
Z3015,1,3.498,DMBXT03.5U2B,Truck,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4500,3.27,29.1,1,Not eqipped,DMBX10021473,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02752,0.4749,372.31,0.0119,,0.0066,,23.8,MPG,23.8,23,25.6,,42.007,0.6358
5,0.02088,22.818,-0.0466,0.027418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,GLK 350 4MATIC,X204E35DEH-
Z3015,1,3.498,DMBXT03.5U2B,Truck,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top
gear ration < 1,4500,3.27,29.1,1,Not eqipped,DMBX10021474,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.03251,0.2256,263.34,0.0076,,0.00837,,33.7,MPG,,,,,42.007,0.63585,0.02088
,22.818,-0.0466,0.027418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350,W166E35DEH-Z2036-
2,0,3.498,DMBXJ03.5U2A,Both,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,DMBX10020816,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.00972,0.2445,397.11,0.0123,,0.00266,,22.4,MPG,22.7,21.4,24.4,,37.038,0.9
5098,0.017188,11.512,0.2114,0.024472,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350,W166E35DEH-Z2036-
2,0,3.498,DMBXJ03.5U2A,Both,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,DMBX10020817,No,3,HWFE,61,Tier 2
Cert
Gasoline,HWY,0.02192,0.2633,276.69,0.002,,0.00765,,32.1,MPG,,,,,37.038,0.95098,0.017188
,11.512,0.2114,0.024472,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350,W166E35DEH-Z2036-2,1,3.498,DMBXJ03.5U2A,Both,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,DMBX10021238,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.00804,0.2204,390.7,0.0125,,0.00233,,22.8,MPG,23.4,21.7,24.7,,37.038,0.95098,0.017188,9.01,0.3051,0.022929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350,W166E35DEH-Z2036-2,1,3.498,DMBXJ03.5U2A,Both,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,DMBX10021240,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01855,0.2633,271.2,0.0026,,0.00738,,32.8,MPG,,,,,37.038,0.95098,0.017188,9.01,0.3051,0.022929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 4MATIC,W166E35DEH-Z2036,2,3.498,CMBXJ03.5U2B,Both,302,6,M276-35,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,CMBX10018861,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01093,0.1958,398.5,0.0182,,0.00318,,22.3,MPG,22.3,21.4,24,,42.613,0.9839,0.017898,16.847,0.1932,0.026312,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 4MATIC,W166E35DEH-Z2036,2,3.498,CMBXJ03.5U2B,Both,302,6,M276-35,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,CMBX10018862,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01717,0.1907,281.29,0.0036,,0.00618,,31.6,MPG,,,,,42.613,0.9839,0.017898,16.847,0.1932,0.026312,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 4MATIC,W166E35DEH-Z2036,2,3.498,CMBXJ03.5U2B,Both,302,6,M276-35,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,CMBX10018863,No,21,Federal fuel 2-day exhaust (w/can load),44,E85 (85% Ethanol 15% CAL Phase II Gasoline),FTP,0.00919,0.1378,381.65,0.011,,0.00476,,16.4,MPG,19.6,18.9,21.4,,42.613,0.9839,0.017898,16.847,0.1932,0.026312,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 4MATIC,W166E35DEH-Z2036,2,3.498,CMBXJ03.5U2B,Both,302,6,M276-35,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,3.69,32,1,Not eqipped,CMBX10018864,No,3,HWFE,44,E85 (85% Ethanol 15% CAL Phase II Gasoline),HWY,0.00438,0.0704,267.17,0.0022,,0.00397,,23.4,MPG,,,,,42.613,0.9839,0.017898,16.847,0.1932,0.026312,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022181,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.036,0.1295,402.8,0.0168,0.0017,0.02574,,25.2,MPG,21.39143,26.1755,27.09365,,42.613,0.9839,0.017898,21.903,0.0492,0.026289,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022181,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.036,0.1295,402.8,0.0168,0.0017,0.02574,,25.2,MPG,21.39143,26.1755,27.09365,,42.613,0.9839,0.017898,21.903,0.0492,0.026289,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022181,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.036,0.1295,402.8,0.0168,0.0017,0.02574,,25.2,MPG,21.39143,26.1755,27.09365,,42.613,0.9839,0.017898,21.903,0.0492,0.026289,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022182,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.016,262.2,0.00039,0.0017,0.00387,,38.8,MPG,,,,,42.613,0.9839,0.01789

8,21.903,0.0492,0.026289,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022182,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.016,262.2,0.00039,0.0017,0.00387,,38.8,MPG,,,,,42.613,0.9839,0.017898,21.903,0.0492,0.026289,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 350 BLUETEC 4MATIC,W166DE30TC-Z2012-1,0,2.987,DMBXT03.0U2C,Truck,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,DMBX10022182,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.003,0.016,262.2,0.00039,0.0017,0.00387,,38.8,MPG,,,,,42.613,0.9839,0.017898,21.903,0.0492,0.026289,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 550 4MATIC,W166E46DETC-Z2014,1,4.664,CMBXT05.5U2A,Truck,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,CMBX10018859,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02028,0.3959,490.95,0.0201,,0.00692,,18.2,MPG,17.8,17.2,20.4,,42.613,0.9839,0.017898,19.248,0.1041,0.02527,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 550 4MATIC,W166E46DETC-Z2014,1,4.664,CMBXT05.5U2A,Truck,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,CMBX10018860,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.02301,0.206,320.16,0.0151,,0.00499,,27.9,MPG,,,,,42.613,0.9839,0.017898,19.248,0.1041,0.02527,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 550 4MATIC,W166E46DETC-Z2014,1,4.664,CMBXT05.5U2A,Truck,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,CMBX10020851,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.02977,0.73917,488.92,0.03235,,,,18.1,MPG,12.1,21.1,,,42.613,0.9839,0.017898,19.248,0.1041,0.02527,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 550 4MATIC,W166E46DETC-Z2014,1,4.664,CMBXT05.5U2A,Truck,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,CMBX10020852,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.04216,1.08727,571.25,0.01851,,,,15.5,MPG,,,,,42.613,0.9839,0.017898,19.248,0.1041,0.02527,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 550 4MATIC,W166E46DETC-Z2014,1,4.664,CMBXT05.5U2A,Truck,402,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.46,30,1,Not eqipped,CMBX10020853,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.17832,1.30872,583.79,,,,,15.2,MPG,12.8,15.1,18,,47.348,1.0932,0.019887,25.471,0.2235,0.02784,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 63 AMG,W166E55DETC-Z2015,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.47,29.7,1,Not eqipped,CMBX10019340,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01851,0.4147,520.54,0.0241,,0.00515,,17.1,MPG,16.1,16.4,19.5,,44.937,1.22124,0.016949,21.759,0.2898,0.025683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 63 AMG,W166E55DETC-Z2015,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.47,29.7,1,Not eqipped,CMBX10019341,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00177,0.3663,365.13,0.0058,,0.00113,,24.4,MPG,,,,,44.937,1.22124,0.016949,21.759,0.2898,0.025683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 63 AMG,W166E55DETC-Z2015,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.47,29.7,1,Not eqipped,CMBX10020839,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00499,0.24591,713.02,0.01835,,,,12.5,MPG,,,,,44.937,1.22124,0.016949,21.759,0.2898,0.025683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 63 AMG,W166E55DETC-Z2015,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.47,29.7,1,Not eqipped,CMBX10020842,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0346,1.2738,551.62,0.09205,,,,16,MPG,11.2,18.3,,,44.937,1.22124,0.016949,21.759,0.2898,0.025683,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,ML 63 AMG,W166E55DETC-Z2015,0,5.461,CMBXT05.5U2A,Truck,518,8,M157-55DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.47,29.7,1,Not eqipped,CMBX10020843,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.08417,0.71568,647.15,,,,,13.8,MPG,11.2,13.7,16.7,,49.93,1.35693,0.018833,28.416,0.43669,0.027605,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,R 350 4MATIC,V251E35DEH-Z2016,1,3.498,CMBXT03.5U2A,Truck,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.45,29.9,1,Not eqipped,CMBX10015342,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01658,0.3,444.86,0.024,,0.00402,,19.9,MPG,19.7,19.2,21.7,,40.57,1.35075,0.014807,15.193,0.6907,0.021048,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,R 350 4MATIC,V251E35DEH-Z2016,1,3.498,CMBXT03.5U2A,Truck,302,6,M276-35DEH,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.45,29.9,1,Not eqipped,CMBX10015343,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0132,0.2662,301.61,0.0031,,0.00402,,29.4,MPG,,,,,40.57,1.35075,0.014807,15.193,0.6907,0.021048,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016157,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.03203,0.0774,383.94,0.0257,0.0013,0.02527,,26.5,MPG,23.1,26.7,29.2,,39.683,0.81909,0.012256,21.402,0.1119,0.017957,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016157,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.03203,0.0774,383.94,0.0257,0.0013,0.02527,,26.5,MPG,23.1,26.7,29.2,,39.683,0.81909,0.012256,21.402,0.1119,0.017957,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016157,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.03203,0.0774,383.94,0.0257,0.0013,0.02527,,26.5,MPG,23.1,26.7,29.2,,39.683,0.81909,0.012256,21.402,0.1119,0.017957,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016158,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.00193,0.0035,230.33,0.0072,,0.00257,,44.2,MPG,,,,,39.683,0.81909,0.012256,21.402,0.1119,0.017957,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016158,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.00193,0.0035,230.33,0.0072,,0.00257,,44.2,MPG,,,,,39.683,0.81909,0.012256,21.402,0.1119,0.017957,OC,Oxidation catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 350 BLUETEC 4MATIC,V221DE30TC-Z3856,1,2.987,CMBXV03.0U2A,Car,240,6,OM642-30,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5000,2.65,24.7,1,Not eqipped,CMBX10016158,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.00193,0.0035,230.33,0.0072,,0.00257,,44.2,MPG,,,,,39.683,0.81909,0.012256,

21.402,0.1119,0.017957,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 400 HYBRID,V221E35-Z0025,1,3.498,AMBXV03.5HY1,Car,275,6,M272-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.07,28.6,1,Not eqipped,AMBX91000403,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.002405,0.0802477,248.8401166,0.0008046,,0.0020132,0.01,35,MPG,,,,,38.415,0.83764,0.01005,19.466,0.1507,0.016542,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 400 HYBRID,V221E35-Z0025,1,3.498,AMBXV03.5HY1,Car,275,6,M272-35MH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.07,28.6,1,Not eqipped,AMBX91000404,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II
Gasoline,FTP,0.0102651,0.1402221,371.7296104,0.008856,,0.0052009,0.01,23.4,MPG,22.3762334,22.6635739,25.7987058,22.9002203,38.415,0.83764,0.01005,19.466,0.1507,0.016542,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550,V221E46DETC-Z2038,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.65,24.1,1,Not eqipped,CMBX10016296,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02543,0.2264,454.01,0.0238,,0.00708,,19.6,MPG,19.1,18.3,22.9,,39.192,0.8378,0.010364,18.834,0.0283,0.017153,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550,V221E46DETC-Z2038,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.65,24.1,1,Not eqipped,CMBX10016297,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00129,0.0863,266.72,0.0079,,0.00032,,33.3,MPG,,,,,39.192,0.8378,0.010364,18.834,0.0283,0.017153,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550,V221E46DETC-Z2038,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.65,24.1,1,Not eqipped,CMBX10016298,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0206,0.33442,399.63,0.02977,,,,22.2,MPG,13.5,27.2,,,39.192,0.8378,0.010364,18.834,0.0283,0.017153,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550,V221E46DETC-Z2038,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.65,24.1,1,Not eqipped,CMBX10016299,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.02575,0.26377,556.3,0.01384,,,,16,MPG,,,,,39.192,0.8378,0.010364,18.834,0.0283,0.017153,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550,V221E46DETC-Z2038,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,2.65,24.1,1,Not eqipped,CMBX10016300,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.12167,0.79309,550.01,,,,,16,MPG,13.4,15.6,19.9,,43.547,0.93089,0.011516,18.999,0.019,0.019162,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550 4MATIC,V221E46DETC-Z2038-1,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,2.65,24.7,1,Not eqipped,CMBX10016244,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.05649,0.6653,600.14,0.02688,,,,14.8,MPG,,,,,39.683,0.81909,0.012256,23.065,0.0709,0.018364,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550 4MATIC,V221E46DETC-Z2038-1,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,2.65,24.7,1,Not eqipped,CMBX10016245,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02591,0.4828,471.7,0.0286,,0.00676,,18.8,MPG,18.7,17.6,21.8,,39.683,0.81909,0.012256,23.065,0.0709,0.018364,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550 4MATIC,V221E46DETC-Z2038-1,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,5250,2.65,24.7,1,Not eqipped,CMBX10016246,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0066,0.0721,276.2,0.0108,,0.00306,,32.2,MPG,,,,,39.683,0.81909,0.012256,23.065,0.0709,0.018364,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550 4MATIC,V221E46DETC-Z2038-
1,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5250,2.65,24.7,1,Not eqipped,CMBX10016247,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.09576,0.70409,593.3,,,,14.9,MPG,13.6,13.6,19.6,,44.092,0.9101,0.013618,23.02,
-0.0706,0.022108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 550 4MATIC,V221E46DETC-Z2038-
1,0,4.664,CMBXV05.5U2B,Car,429,8,M278-46DETC,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear
ration < 1,5250,2.65,24.7,1,Not eqipped,CMBX10016248,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.02237,0.33861,413.51,0.02414,,,,21.4,MPG,13.3,26,,,39.683,0.81909,0.012
256,23.065,0.0709,0.018364,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 600,V221E55TC-
Z7014,4,5.513,BMBXV06.0U2A,Car,510,12,M275-55TC-1,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,25.3,1,Not eqipped,BMBX10011030,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03267,0.5826,605.76,0.03798,,,,14.6,MPG,14.6,13.7,17,,39.192,0.8378,0.01
0364,20.102,0.2381,0.015121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 600,V221E55TC-
Z7014,4,5.513,BMBXV06.0U2A,Car,510,12,M275-55TC-1,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,25.3,1,Not eqipped,BMBX10011031,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0008,0.19167,347.04,0.014,,,,25.6,MPG,,,,,39.192,0.8378,0.010364,20.102,
0.2381,0.015121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 63 AMG,V221E55DETC-Z2029-
1,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10014812,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02494,0.2855,467.16,0.0272,,0.00402,,19,MPG,18,18.2,21.8,,42.405,0.86744
,0.00959,23.897,0.051,0.016734,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 63 AMG,V221E55DETC-Z2029-
1,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10014813,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.00676,0.1333,291.28,0.006,,0.0029,,30.5,MPG,,,,,42.405,0.86744,0.00959,2
3.897,0.051,0.016734,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 63 AMG,V221E55DETC-Z2029-
1,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not
eqipped,CMBX10014814,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.03428,0.67609,420.65,0.05375,,,,21,MPG,13.2,25.3,,,42.405,0.86744,0.009
59,23.897,0.051,0.016734,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 63 AMG,V221E55DETC-Z2029-
1,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not
eqipped,CMBX10014815,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.00885,0.22193,575.55,0.00145,,,,15.4,MPG,,,,,42.405,0.86744,0.00959,23.
897,0.051,0.016734,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 63 AMG,V221E55DETC-Z2029-
1,0,5.461,CMBXV05.5U2B,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5250,2.65,24.2,1,Not eqipped,CMBX10014816,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.10364,0.99892,580.67,,,,,15.2,MPG,13.8,14.3,18.5,,47.117,0.96383,0.010655,23.4
93,-0.104,0.019849,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 65 AMG,V221E60TC-
Z1017,1,5.98,CMBXV06.0U2A,Car,621,12,M275-60TC,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,5500,2.65,27.6,1,Not eqipped,CMBX10014847,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01609,0.47202,592.3,0.0018,,,,15,MPG,14.8,13.9,17.7,,42.405,0.86744,0.00
959,20.518,0.14895,0.015808,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,S 65 AMG,V221E60TC-

Z1017,1,5.98,CMBXV06.0U2A,Car,621,12,M275-60TC,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.65,27.6,1,Not eqipped,CMBX10014848,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00724,0.2314,342.81,0.0018,,,,25.9,MPG,,,,,42.405,0.86744,0.00959,20.518,0.14895,0.015808,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10020224,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00354,0.1333,259.41,0.0105,,0.00145,,34.3,MPG,,,,,34.631,0.67094,0.011401,16.634,-0.0303,0.017392,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10020227,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.10332,0.99747,514.65,,,,,17.3,MPG,14.4,16.9,21.5,,38.479,0.74549,0.012667,22.245,-0.0769,0.020315,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10022139,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01625,0.2586,402.59,0.0409,,0.00595,,22,MPG,21.3,21,25,,34.631,0.67094,0.011401,16.634,-0.0303,0.017392,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10022140,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00241,0.1312,261.41,0.0069,,0.00129,,34,MPG,,,,,34.631,0.67094,0.011401,16.634,-0.0303,0.017392,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10022141,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.02076,0.68043,535.7,0.00531,,,,16.6,MPG,,,,,34.631,0.67094,0.011401,16.634,-0.0303,0.017392,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 550,R231E46DETC-Z3018,0,4.664,DMBXV05.5U2A,Car,429,8,M278-46DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.65,25.9,1,Not eqipped,DMBX10022180,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.04683,0.76106,382.7,0.07178,,,,23.1,MPG,15,27.3,,,34.631,0.67094,0.011401,16.634,-0.0303,0.017392,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 63 AMG,R231E55DETC-Z3019,0,5.461,DMBXV05.5U2A,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10021401,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01239,0.141,448.57,0.0307,,0.00451,,19.8,MPG,20.2,18.1,23.7,,37.447,0.63399,0.011302,23.897,-0.1777,0.018248,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 63 AMG,R231E55DETC-Z3019,0,5.461,DMBXV05.5U2A,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10021402,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0074,0.1456,275.95,0.008,,0.00306,,32.2,MPG,,,,,37.447,0.63399,0.011302,23.897,-0.1777,0.018248,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 63 AMG,R231E55DETC-Z3019,0,5.461,DMBXV05.5U2A,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10021403,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.02366,0.34263,385.12,0.05375,,,,23.1,MPG,15.3,27,,,37.447,0.63399,0.011302,23.897,-0.1777,0.018248,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 63 AMG,R231E55DETC-

Z3019,0,5.461,DMBXV05.5U2A,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10021404,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.01255,0.20567,504.08,0.01545,,,,17.6,MPG,,,,,37.447,0.63399,0.011302,23.897,-0.1777,0.018248,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 63 AMG,R231E55DETC-Z3019,0,5.461,DMBXV05.5U2A,Car,536,8,M157-55DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10021405,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.15691,0.86599,565.72,,,,,15.7,MPG,14.6,14.8,19.1,,41.608,0.70443,0.012557,27.629,-0.066,0.019045,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 65 AMG,R231E60TC-Z3020,0,5.98,DMBXV06.0U2A,Car,621,12,M279-60TC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10022470,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02173,0.33571,511.74,0.03283,,0.00676,,17.4,MPG,17.1,16.4,20,,37.447,0.63399,0.011302,22.796,-0.18741,0.01812,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SL 65 AMG,R231E60TC-Z3020,0,5.98,DMBXV06.0U2A,Car,621,12,M279-60TC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.65,25,1,Not eqipped,DMBX10022471,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00032,0.03106,304.99,0.00547,,0.00016,,29.2,MPG,,,,,37.447,0.63399,0.011302,22.796,-0.18741,0.01812,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 250,R172E18DETC-Z2033,0,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,31.2,1,Not eqipped,CMBX10017602,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02205,0.3317,308.38,0.0245,,0.00322,,28.9,MPG,26.4,28,32.9,,29.7,0.64933,0.009741,13.94,-0.0234,0.015418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 250,R172E18DETC-Z2033,0,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.07,31.2,1,Not eqipped,CMBX10017603,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00097,0.1561,194.06,0.0018,,0.00032,,46,MPG,,,,,29.7,0.64933,0.009741,13.94,-0.0234,0.015418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 250,R172E18DETC-Z2034,0,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.27,38.4,1,Not eqipped,CMBX10017856,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02446,0.1411,312.34,0.0312,,0.00386,,28.6,MPG,27.1,27.1,33,,37.978,0.174,0.013409,18.99,0.0348,0.013409,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 250,R172E18DETC-Z2034,0,1.796,CMBXV01.8U2A,Car,201,4,M271-18DETC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.27,38.4,1,Not eqipped,CMBX10017857,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0008,0.0695,195.73,0.0037,,0.00032,,45.6,MPG,,,,,37.978,0.174,0.013409,18.99,0.0348,0.013409,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 350,R172E35DEH-Z3027,0,3.498,DMBXV03.5BN4,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.07,31.2,1,Not eqipped,DMBX10020568,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00563,0.0674,218.81,0.004,,0.00225,,40.6,MPG,,,,,29.7,0.64933,0.009741,12.012,-0.057,0.016443,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 350,R172E35DEH-Z3027,0,3.498,DMBXV03.5BN4,Car,302,6,M276-35DEH,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.07,31.2,1,Not eqipped,DMBX10020569,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01706,0.3867,330.16,0.0064,,0.00338,,26.9,MPG,27.2,25.5,29.8,,29.7,0.64933,0.009741,12.012,-0.057,0.016443,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 55 AMG,R172E55DE-

Z2011,0,5.461,CMBXV05.5U2B,Car,416,8,M152-55,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.82,28.4,1,Not eqipped,CMBX10018983,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01014,0.2343,372.98,0.0171,,0.00193,,23.9,MPG,22.7,23.1,26.4,,30.554,0.66434,0.010684,13.77,0.009,0.016402,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 55 AMG,R172E55DE-Z2011,0,5.461,CMBXV05.5U2B,Car,416,8,M152-55,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.82,28.4,1,Not eqipped,CMBX10018984,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00885,0.4556,233.71,0.008,,0.0029,,38.1,MPG,,,,,30.554,0.66434,0.010684,13.77,0.009,0.016402,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 55 AMG,R172E55DE-Z2011,0,5.461,CMBXV05.5U2B,Car,416,8,M152-55,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.82,28.4,1,Not eqipped,CMBX10018985,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0074,0.35518,351.03,0.01625,,,,25.4,MPG,16.4,30,,,30.554,0.66434,0.010684,13.77,0.009,0.016402,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 55 AMG,R172E55DE-Z2011,0,5.461,CMBXV05.5U2B,Car,416,8,M152-55,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.82,28.4,1,Not eqipped,CMBX10018986,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.08465,1.08824,466.65,,,,,19,MPG,15.9,18.8,23.1,,33.949,0.73816,0.011871,15.265,0.0976,0.017322,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLK 55 AMG,R172E55DE-Z2011,0,5.461,CMBXV05.5U2B,Car,416,8,M152-55,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,2.82,28.4,1,Not eqipped,CMBX10018987,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00225,0.02913,413.25,0.04281,,,,21.6,MPG,,,,,30.554,0.66434,0.010684,13.77,0.009,0.016402,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLS AMG,R197E63-Z1023-1,0,6.208,DMBXV06.2U2A,Car,563,8,M159-63,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.67,34.3,1,Not eqipped,DMBX10022646,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01706,0.1193,344.37,0.0053,,0.00901,,25.9,MPG,,,,,41.345,0.49986,0.018131,20.347,-0.2786,0.024845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,SLS AMG,R197E63-Z1023-1,0,6.208,DMBXV06.2U2A,Car,563,8,M159-63,AM,Automated Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.67,34.3,1,Not eqipped,DMBX10022651,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01561,0.2684,557.51,0.0174,,0.00386,,16,MPG,16.7,14.5,19,,41.345,0.49986,0.018131,20.347,-0.2786,0.024845,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo (Coupe),C451E10-Z2027,0,0.999,CMBXV01.0U2A,Car,70,3,M132-10,AM,Automated Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,2125,4.53,49.1,1,Not eqipped,CMBX10017513,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.02301,0.8005,289.23,0.00415,,,,30.8,MPG,,,,,17.544,0.29748,0.016833,3.325,0.1702,0.017415,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo (Coupe),C451E10-Z2027,0,0.999,CMBXV01.0U2A,Car,70,3,M132-10,AM,Automated Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,2125,4.53,49.1,1,Not eqipped,CMBX10017514,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.03288,4.7019,235.74,0.00489,,,,36.7,MPG,26.8,40.9,,,17.544,0.29748,0.016833,3.325,0.1702,0.017415,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo (Coupe),C451E10-Z2027,0,0.999,CMBXV01.0U2A,Car,70,3,M132-10,AM,Automated Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,2125,4.53,49.1,1,Not eqipped,CMBX91001146,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0111275,0.1466921,151.8317607,0.0014092,,0.0036813,0.01,58.5,MPG,,,,,17.544,0.29748,0.016833,3.325,0.1702,0.017415,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo (Coupe),C451E10-

Z2027,0,0.999,CMBXV01.0U2A,Car,70,3,M132-10,AM,Automated Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,2125,4.53,49.1,1,Not eqipped,CMBX91001148,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0235702,0.1910951,197.2247986,0.0167164,,0.0023534,0.01,45.1,MPG,42.1765564,44.5770256,48.5870063,,17.544,0.29748,0.016833,3.325,0.1702,0.017415,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo electric drive (convertible),C451ed-Z3022-1,0,0.001,DMBXV00.0ED1,Car,74,,SMG180,A,Automatic,1,N,R,"2-Wheel Drive, Rear",1,No gear ratio < 1,2375,1,151.8,1,Not eqipped,DMBX10021862,No,81,Charge Depleting UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,32.869,-0.1639,0.028583,15.606,-0.0875,0.021817,,,N,,,N,No averaging

2013,Mercedes-Benz,MBX,Mercedes-Benz,smart fortwo electric drive (convertible),C451ed-Z3022-1,0,0.001,DMBXV00.0ED1,Car,74,,SMG180,A,Automatic,1,N,R,"2-Wheel Drive, Rear",1,No gear ratio < 1,2375,1,151.8,1,Not eqipped,DMBX10021863,No,84,Charge Depleting Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,32.869,-0.1639,0.028583,15.606,-0.0875,0.021817,,,N,,,N,No averaging

2013,Mercedes-Benz,MBX,W204E63-Z1011,C 63 AMG,W204E63-Z1011,2,6.208,CMBXV06.3U2A,Car,451,8,M156-63,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10014405,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01432,0.2018,546.41,0.0068,,,,16.3,MPG,16.8,14.9,19.1,,35.756,0.7163,0.012024,15.907,0.09808,0.017654,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mercedes-Benz,MBX,W204E63-Z1011,C 63 AMG,W204E63-Z1011,2,6.208,CMBXV06.3U2A,Car,451,8,M156-63,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.82,28.4,1,Not eqipped,CMBX10014406,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00338,0.2002,333.09,0.0082,,,,26.7,MPG,,,,,35.756,0.7163,0.012024,15.907,0.09808,0.017654,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,i-MiEV,EB12-EM21,1,0.001,DMTXV00.0EWB,Car,66,,00NS,A,Automatic,1,Y,R,"2-Wheel Drive, Rear",1,No gear ratio < 1,2875,7.07,106.2,1,Not eqipped,DMTX10021616,No,81,Charge Depleting UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,19.484,0.43515,0.016133,7.13,0.2075,0.01739,,,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,i-MiEV,EB12-EM21,1,0.001,DMTXV00.0EWB,Car,66,,00NS,A,Automatic,1,Y,R,"2-Wheel Drive, Rear",1,No gear ratio < 1,2875,7.07,106.2,1,Not eqipped,DMTX10021617,No,84,Charge Depleting Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,19.484,0.43515,0.016133,7.13,0.2075,0.01739,,,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CA52,3,1.998,CMTXV02.4GRB,Car,148,4,20DC-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.94,41.9,1,Not eqipped,CMTX10014412,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.05276,1.13618,279.44774,0.00627,,0.00821,,31.5,MPG,,,,,19.004,0.33186,0.01542,3.82,0.0777,0.016536,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CA52,3,1.998,CMTXV02.4GRB,Car,148,4,20DC-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.94,41.9,1,Not eqipped,CMTX10014500,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00226,0.49978,183.21717,0.00072,,0.00122,,48.2,MPG,,,,,19.004,0.33186,0.01542,3.82,0.0777,0.016536,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CA5A,5,1.998,CMTXV02.4GRB,Car,148,4,20DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.41,29.2,1,Not eqipped,CMTX10014497,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0302,0.32516,267.51846,0.01264,,0.00446,,33,MPG,,,,,33.897,-0.07177,0.020155,2.38,0.1569,0.016644,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CA5A,5,1.998,CMTXV02.4GRB,Car,148,4,20DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration <

1,3250,5.41,29.2,1,Not eqipped,CMTX10014498,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00113,0.22402,183.92905,0.00072,,0.0009,,48,MPG,,,,,33.897,-0.07177,0.020155,2.38,0.1569,0.016644,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CB56,1,2.359,BMTXV02.4GRB,Car,168,4,24DG-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.94,41.2,1,Not eqipped,BMTX10006819,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04957,0.91787,309.35295,0.01081,,0.00693,,28.7,MPG,,,,,22.608,0.40551,0.016034,7.31,0.0665,0.017826,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CB56,1,2.359,BMTXV02.4GRB,Car,168,4,24DG-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.94,41.2,1,Not eqipped,BMTX10006821,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00554,0.2029,203.96331,0.00306,,,,43.6,MPG,,,,,22.608,0.40551,0.016034,7.31,0.0665,0.017826,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CB5C,3,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,6.12,32.5,1,Not eqipped,BMTX91000451,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0343029,0.6914526,301.8454522,0.0161184,,0.0054886,,29.3,MPG,27.6076003,28.7855654,31.9403633,,48.755,-0.35942,0.023594,9.74,0.1177,0.017273,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER,EB11-CB5C,3,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,6.12,32.5,1,Not eqipped,BMTX91000452,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0077451,0.3473655,209.1254691,0.0013809,,0.0026181,,42.4,MPG,,,,,48.755,-0.35942,0.023594,9.74,0.1177,0.017273,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER EVOLUTION,EB11-CA72,0,1.998,BMTXV02.0GRB,Car,291,4,20DK-VNA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3875,4.69,47.9,1,Not eqipped,BMTX10007933,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03891,0.48587,422.12296,0.02245,,0.00738,,21,MPG,,,,,46.337,0.63264,0.019137,18.35,0.2405,0.020538,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER EVOLUTION,EB11-CA72,0,1.998,BMTXV02.0GRB,Car,291,4,20DK-VNA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3875,4.69,47.9,1,Not eqipped,BMTX10007934,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01138,0.31228,278.29032,0.00638,,,,31.9,MPG,,,,,46.337,0.63264,0.019137,18.35,0.2405,0.020538,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER EVOLUTION,EB12-CA83,2,1.998,CMTXV02.0GRB,Car,291,4,20DJ-VNA,AM,Automated Manual,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,42.3,1,Not eqipped,CMTX10014397,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04176,0.90743,426.0291,0.02213,,0.00832,,20.7,MPG,,,,,43.512,0.50916,0.019935,7.65,0.184,0.021928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER EVOLUTION,EB12-CA83,2,1.998,CMTXV02.0GRB,Car,291,4,20DJ-VNA,AM,Automated Manual,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.06,42.3,1,Not eqipped,CMTX10014401,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00563,0.45566,283.77473,0.00579,,0.00181,,31.1,MPG,,,,,43.512,0.50916,0.019935,7.65,0.184,0.021928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CA53,0,1.998,BMTXV02.0GRB,Car,237,4,20DL-VNB,AM,Automated Manual,6,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,4.06,40,1,Not eqipped,BMTX10007936,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03344,0.93541,402.69605,0.0192,,0.0064,,21.9,MPG,,,,,39.495,0.53252,0.017156,14.89,0.2105,0.01862,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CA53,0,1.998,BMTXV02.0GRB,Car,237,4,20DL-VNB,AM,Automated Manual,6,Y,A,All Wheel

Drive,2,Top gear ration < 1,3875,4.06,40,1,Not eqipped,BMTX10007939,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00648,0.4273,254.15928,0.00344,,,,34.9,MPG,,,,,39.495,0.53252,0.017156,14.89,0.2105,0.01862,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CA5A,4,1.998,CMTXV02.4GRB,Car,148,4,20DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,5.41,29.2,1,Not eqipped,CMTX10014409,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00409,0.21789,193.64216,0.00069,,0.00126,,45.6,MPG,,,,,41.959,-0.31718,0.024077,7.29,0.0031,0.019691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CA5A,4,1.998,CMTXV02.4GRB,Car,148,4,20DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,5.41,29.2,1,Not eqipped,CMTX10014495,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03543,0.37735,282.22667,0.01989,,0.00484,,31.3,MPG,,,,,41.959,-0.31718,0.024077,7.29,0.0031,0.019691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CB5C,2,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,6.12,32.5,1,Not eqipped,BMTX91000442,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.034291,0.5646746,312.0739856,0.0152051,,0.0046135,,28.4,MPG,26.9021601,27.859044,30.7624129,,43.357,-0.17555,0.022994,3.64,0.3536,0.016049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CB5C,2,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,6.12,32.5,1,Not eqipped,BMTX91000442,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.034291,0.5646746,312.0739856,0.0152051,,0.0046135,,28.4,MPG,26.9021601,27.859044,30.7624129,,43.357,-0.17555,0.022994,3.64,0.3536,0.016049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CB5C,2,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,6.12,32.5,1,Not eqipped,BMTX91000443,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0082483,0.3628511,221.4244545,0.0046215,,0.0026098,,40.1,MPG,,,,,43.357,-0.17555,0.022994,3.64,0.3536,0.016049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,LANCER SPORTBACK,EB11-CB5C,2,2.359,BMTXV02.4GRB,Car,168,4,24DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,A,All Wheel Drive,2,Top gear ration < 1,3500,6.12,32.5,1,Not eqipped,BMTX91000443,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0082483,0.3628511,221.4244545,0.0046215,,0.0026098,,40.1,MPG,,,,,43.357,-0.17555,0.022994,3.64,0.3536,0.016049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DB5A,3,2.359,BMTXT02.4GRB,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,6.47,32.2,1,Not eqipped,BMTX10008999,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03271,0.4725,306.39028,0.01041,,0.00454,,28.9,MPG,,,,,45.454,-0.31357,0.027643,7.93,0.2072,0.020533,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DB5A,3,2.359,BMTXT02.4GRB,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,6.47,32.2,1,Not eqipped,BMTX10009000,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01152,0.45991,222.8854,0.00097,,,,39.7,MPG,,,,,45.454,-0.31357,0.027643,7.93,0.2072,0.020533,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DB5B,5,2.359,BMTXT02.4GRC,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration <

1,3875,6.47,32.2,1,Not eqipped,BMTX10009007,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03083,0.37552,312.23067,0.01502,,0.00461,,28.4,MPG,,,,,45.18,-0.2178,0.028203,6.87,0.2017,0.021802,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DB5B,5,2.359,BMTXT02.4GRC,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,6.47,32.2,1,Not eqipped,BMTX10009008,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00481,0.36513,225.70471,0.00094,,,,39.2,MPG,,,,,45.18,-0.2178,0.028203,6.87,0.2017,0.021802,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DC43,4,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.57,30.9,1,Not eqipped,BMTX10008498,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03588,0.40087,365.48664,0.00678,,0.00428,,24.3,MPG,,,,,28.309,0.64053,0.021491,8.18,0.4192,0.022222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 2WD,EB11-DC43,4,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.57,30.9,1,Not eqipped,BMTX10008499,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01986,0.33494,246.16432,0.00297,,,,36,MPG,,,,,28.309,0.64053,0.021491,8.18,0.4192,0.022222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DB5B,2,2.359,BMTXT02.4GRC,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,4,4-Wheel Drive,2,Top gear ration < 1,4000,6.47,32.2,1,Not eqipped,BMTX10009001,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02901,0.44004,320.3937,0.01387,,0.00423,,27.7,MPG,,,,,49.086,-0.18632,0.028802,10.09,0.2553,0.022053,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DB5B,2,2.359,BMTXT02.4GRC,Truck,168,4,24DA-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,N,4,4-Wheel Drive,2,Top gear ration < 1,4000,6.47,32.2,1,Not eqipped,BMTX10009002,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00946,0.38376,234.90629,0.00094,,,,37.7,MPG,,,,,49.086,-0.18632,0.028802,10.09,0.2553,0.022053,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DC43,2,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.57,30.9,1,Not eqipped,BMTX91000560,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0473046,0.5426958,379.6143755,0.0090227,,0.0051638,,23.3,MPG,21.5099525,23.0672098,25.5342323,,31.871,0.60089,0.022103,11.83,0.3684,0.022969,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DC43,2,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.57,30.9,1,Not eqipped,BMTX91000561,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.012875,0.2793552,261.1031892,0.0015531,,0.0036082,,34,MPG,,,,,31.871,0.60089,0.022103,11.83,0.3684,0.022969,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DC43,2,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4250,3.57,30.9,1,Not eqipped,BMTX91000568,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0134269,0.2380908,257.0752486,0.0036379,,0.0035463,,34.5,MPG,,,,,31.871,0.60089,0.022103,11.83,0.3684,0.022969,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-DC43,3,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.57,30.9,1,Not eqipped,BMTX10010030,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,24.2,MPG,,,,,28.361,0.57425,0.020698,9.15,0.3023,0.021969,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER 4WD,EB11-

DC43,3,2.998,BMTXT03.0GRB,Truck,230,6,30SJ-SEN,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,4000,3.57,30.9,1,Not eqipped,BMTX10010031,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,35.7,MPG,,,,28.361,0.57425,0.020698,9.15,0.3023,0.021969,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 2WD,EB11-ZA22,0,1.998,BMTXT02.4GRB,Truck,148,4,20DG-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.9,1,Not eqipped,BMTX10009228,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01757,0.84495,294.05506,0.01833,,0.00423,,30.1,MPG,,,,,20.084,0.43542,0.022027,5.08,0.1697,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 2WD,EB11-ZA22,0,1.998,BMTXT02.4GRB,Truck,148,4,20DG-VEN,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.9,1,Not eqipped,BMTX10009229,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00655,0.42764,212.06509,0.00062,,,,41.7,MPG,,,,,20.084,0.43542,0.022027,5.08,0.1697,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 2WD,EB11-ZA2A,10,1.998,DMTXT02.4GRB,Truck,148,4,20DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,6.47,32.2,1,Not eqipped,DMTX10019129,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.04135,0.70183,282.66252,0.01704,,0.00608,,31.2,MPG,,,,,37.964,-0.18418,0.026869,5.58,0.0913,0.023051,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 2WD,EB11-ZA2A,10,1.998,DMTXT02.4GRB,Truck,148,4,20DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,6.47,32.2,1,Not eqipped,DMTX10019133,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0102,0.38751,205.39481,0.00165,,0.00264,,43.1,MPG,,,,,37.964,-0.18418,0.026869,5.58,0.0913,0.023051,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 4WD,EB11-ZA2A,8,1.998,DMTXT02.4GRB,Truck,148,4,20DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3625,6.47,32.2,1,Not eqipped,DMTX10019130,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0418,0.77047,292.44073,0.01874,,0.00624,,30.2,MPG,,,,,43.815,-0.20094,0.027677,10.39,0.07,0.023823,TWC,Three-way catalyst,N,,,N,No averaging

2013,Mitsubishi Motors Co,MTX,MITSUBISHI,OUTLANDER SPORT 4WD,EB11-ZA2A,8,1.998,DMTXT02.4GRB,Truck,148,4,20DE-VEN,SCV,Selectable Continuously Variable (e.g. CVT with paddles),6,Y,4,4-Wheel Drive,2,Top gear ration < 1,3625,6.47,32.2,1,Not eqipped,DMTX10019134,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.01239,0.40333,217.18447,0.00246,,0.00291,,40.7,MPG,,,,,43.815,-0.20094,0.027677,10.39,0.07,0.023823,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37 AWD Journey,LTE527,1,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.13,30.2,1,Not eqipped,DNSX10020111,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0268,0.6404,410,0.0204,,0.0056,0.01,21.7,MPG,,,,,38.81,0.6124,0.01895,17.5,0.2254,0.02146,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37 AWD Journey,LTE527,1,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.13,30.2,1,Not eqipped,DNSX10020112,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0123,0.2367,262,0.0123,,0.0026,0.01,34,MPG,,,,,38.81,0.6124,0.01895,17.5,0.2254,0.02146,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37 AWD Journey,LTE527,2,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.13,30.5,1,Not eqipped,DNSX10020109,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.028,0.6655,412,0.0262,,0.008,0.01,21.6,MPG,,,,,37.63,0.5938,0.01872,18.43,0.2091,0.02121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37 AWD
Journey,LTE527,2,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.13,30.5,1,Not eqipped,DNSX10020110,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0079,0.2479,262,0.0235,,0.0028,0.01,34,MPG,,,,,37.63,0.5938,0.01872,18.4
3,0.2091,0.02121,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37
Journey,LTE526,0,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.13,30.5,1,Not
eqipped,DNSX10020113,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0338,0.9314,406,0.0194,,0.0094,0.01,21.9,MPG,,,,,28.52,0.739,0.01707,8.4
5,0.4007,0.0196,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI EX37
Journey,LTE526,0,3.7,DNSXV03.7GAA,Car,326,6,AV37DAAB,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.13,30.5,1,Not
eqipped,DNSX10020114,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0153,0.2969,253,0.0184,,0.0047,0.01,35.2,MPG,,,,,28.52,0.739,0.01707,8.4
5,0.4007,0.0196,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
AWD,LME539,1,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4750,3.69,32.8,1,Not eqipped,DNSX10019634,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0179,0.5807,442,0.0185,,0.0039,0.01,20.1,MPG,,,,,46.66,0.3352,0.02708,23
.9,-0.0441,0.02944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
AWD,LME539,1,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4750,3.69,32.8,1,Not eqipped,DNSX10019635,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0048,0.245,295,0.018,,0.001,0.01,30.1,MPG,,,,,46.66,0.3352,0.02708,23.9,
-0.0441,0.02944,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
AWD,LME539,2,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4750,3.69,32.9,1,Not eqipped,DNSX10019636,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0188,0.5894,437,0.0199,,0.0042,0.01,20.3,MPG,,,,,43.11,0.3097,0.02699,23
.3,-0.0774,0.02947,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
AWD,LME539,2,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4750,3.69,32.9,1,Not eqipped,DNSX10019637,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0014,0.3034,289,0.0122,,0.0008,0.01,30.7,MPG,,,,,43.11,0.3097,0.02699,23
.3,-0.0774,0.02947,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
RWD,LME540,0,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,29.9,1,Not
eqipped,DNSX10019638,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0215,0.5709,425,0.031,,0.0063,0.01,20.9,MPG,,,,,36.56,0.365,0.02512,19.1
4,0.0311,0.02716,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX37
RWD,LME540,0,3.7,DNSXT03.7GAA,Truck,325,6,AV37DAAF,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,29.9,1,Not
eqipped,DNSX10019639,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0092,0.2015,269,0.0276,,0.0024,0.01,33,MPG,,,,,36.56,0.365,0.02512,19.14
,0.0311,0.02716,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX50
AWD,LMB084,2,5,9NSXT05.0G8A,Truck,390,,AK50DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,31.3,1,Not eqipped,9NSX01083547,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0342,0.5174,495,0.0215,,,,17.9,MPG,,,,,49.27,0.3538,0.02744,22.89,0.1177
,0.02841,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI FX50
AWD,LMB084,2,5,9NSXT05.0G8A,Truck,390,,AK50DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,31.3,1,Not eqipped,9NSX01083548,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0031,0.0825,324,0.0042,,,,27.5,MPG,,,,,49.27,0.3538,0.02744,22.89,0.1177
,0.02841,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MLE355,1,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.4,1,Not
eqipped,ANSX10006023,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002,0.063,255,0.012,,0.0016,0.01,34.9,MPG,,,,,33.87,0.3357,0.01832,11.74
,0.0411,0.02004,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MLE355,1,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.4,1,Not
eqipped,ANSX10006029,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0232,0.4823,420,0.0182,,0.0087,0.01,21.2,MPG,,,,,33.87,0.3357,0.01832,11
.74,0.0411,0.02004,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MMC083,0,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.8,1,Not
eqipped,ANSX10006024,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0233,0.5158,406,0.0103,,0.009,0.01,21.9,MPG,,,,,33.87,0.3357,0.01804,14.
08,-0.0176,0.02082,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MMC083,0,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.8,1,Not
eqipped,ANSX10006025,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0048,0.0767,252,0.0032,,0.0026,0.01,35.3,MPG,,,,,33.87,0.3357,0.01804,14
.08,-0.0176,0.02082,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MMC083,1,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.4,1,Not
eqipped,ANSX10006026,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0273,0.6421,413,0.0227,,0.0093,0.01,21.5,MPG,,,,,33.87,0.3357,0.01832,14
.14,0.0284,0.02047,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE
Journey,MMC083,1,3.7,ANSXV03.7GAB,Car,320,6,AV37DAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,3.36,33.4,1,Not
eqipped,ANSX10006027,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0156,0.1519,252,0.005,,0.005,0.01,35.3,MPG,,,,,33.87,0.3357,0.01832,14.1
4,0.0284,0.02047,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE Sport
6MT,MLE353,1,3.7,BNSXV03.7GAB,Car,325,6,AV37DAM3,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.92,40.1,1,Not eqipped,BNSX10011433,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20.2,MPG,,,,,36.06,0.2295,0.01868,19.53,-0.2103,0.02143,,,N,,,N,No
averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 CONVERTIBLE Sport
6MT,MLE353,1,3.7,BNSXV03.7GAB,Car,325,6,AV37DAM3,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4500,3.92,40.1,1,Not
eqipped,BNSX10011434,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,32.9,MPG,,,,,36.06,0.2295,0.01868,19.53,-0.2103,0.02143,,,N,,,N,No
averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE550,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,34,1,Not
eqipped,ANSX10006108,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0269,0.4466,369,0.0194,,0.0089,0.01,24.1,MPG,,,,,29.94,0.2968,0.01682,7.
47,0.0134,0.01949,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE550,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,34,1,Not
eqipped,ANSX10006109,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0096,0.3287,237,0.0254,,0.0041,0.01,37.5,MPG,,,,,29.94,0.2968,0.01682,7.
47,0.0134,0.01949,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE550,3,3.7,ANSXV03.7GAA,Car,326,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.6,1,Not
eqipped,ANSX10006110,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0229,0.3709,372,0.0258,,0.0083,0.01,23.9,MPG,,,,,30.58,0.3031,0.01713,11
.11,0.0435,0.01889,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE550,3,3.7,ANSXV03.7GAA,Car,326,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.6,1,Not
eqipped,ANSX10006111,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0083,0.1066,240,0.0202,,0.0041,0.01,37.1,MPG,,,,,30.58,0.3031,0.01713,11
.11,0.0435,0.01889,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE551,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA9,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.8,1,Not
eqipped,ANSX10006014,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0296,0.5746,386,0.0202,,0.0095,0.01,23,MPG,,,,,31.63,0.3175,0.01675,10.8
3,0.1312,0.01754,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE551,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA9,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.8,1,Not
eqipped,ANSX10006015,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0105,0.2293,243,0.0162,,0.0047,0.01,36.6,MPG,,,,,31.63,0.3175,0.01675,10
.83,0.1312,0.01754,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE551,3,3.7,ANSXV03.7GAA,Car,326,6,AV37DAA9,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.4,1,Not
eqipped,ANSX10006012,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0289,0.4739,390,0.0157,,0.009,0.01,22.8,MPG,,,,,31.56,0.3152,0.01709,11.
97,-0.0108,0.01951,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan
Journey,MKE551,3,3.7,ANSXV03.7GAA,Car,326,6,AV37DAA9,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4000,3.36,33.4,1,Not
eqipped,ANSX10006013,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0102,0.2318,245,0.0182,,0.0046,0.01,36.3,MPG,,,,,31.56,0.3152,0.01709,11
.97,-0.0108,0.01951,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,0,3.7,ANSXV03.7GAA,Car,326,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,37.8,1,Not eqipped,ANSX91000325,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0274596,1.0790835,434.7349456,0.0354494,,0.0085749,0.01,20.3,MPG,19.8855
987,18.9393222,24.2194929,,32.17,0.2046,0.0185,16.66,-0.1056,0.01987,,,N,,,N,No
averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,0,3.7,ANSXV03.7GAA,Car,326,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,37.8,1,Not eqipped,ANSX91000326,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0119903,0.5094783,256.4641087,0.0179166,,0.0038344,0.01,34.6,MPG,,,,,32.
17,0.2046,0.0185,16.66,-0.1056,0.01987,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005771,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0105,0.4387,253,0.0128,,0.0026,0.01,35.1,MPG,,,,,32.56,0.2072,0.01725,17

.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005772,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0307,1.1334,409,0.0294,,0.0096,0.01,21.7,MPG,,,,,32.56,0.2072,0.01725,17
.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005773,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0128,0.7508,253,0.0136,,0.0038,0.01,35,MPG,,,,,32.56,0.2072,0.01725,17.6
6,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005774,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0275,0.9201,414,0.0254,,0.0123,0.01,21.4,MPG,,,,,32.56,0.2072,0.01725,17
.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005775,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0107,0.4518,254,0.021,,0.0044,0.01,35,MPG,,,,,32.56,0.2072,0.01725,17.66
,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005776,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0372,1.1537,417,0.0234,,0.0169,0.01,21.3,MPG,,,,,32.56,0.2072,0.01725,17
.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005777,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0124,0.5854,254,0.0253,,0.0054,0.01,34.9,MPG,,,,,32.56,0.2072,0.01725,17
.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005778,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0291,0.7897,418,0.0229,,0.0117,0.01,21.2,MPG,,,,,32.56,0.2072,0.01725,17
.66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37 sedan Sport
6MT,MKE552,1,3.7,ANSXV03.7GAA,Car,323,6,AV37DAM1,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4000,3.69,38.3,1,Not eqipped,ANSX10005779,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.012,0.4335,255,0.0136,,0.0049,0.01,34.8,MPG,,,,,32.56,0.2072,0.01725,17.
66,-0.1013,0.01864,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37X COUPE
AWD,MLD340,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.36,34,1,Not eqipped,ANSX10006020,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0306,0.5518,398,0.0116,,0.0104,0.01,22.3,MPG,,,,,33.53,0.5562,0.01433,9.
3,0.2999,0.01593,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37X COUPE
AWD,MLD340,2,3.7,ANSXV03.7GAA,Car,323,6,AV37DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.36,34,1,Not eqipped,ANSX10006021,No,3,HWFE,61,Tier 2
Cert
Gasoline,HWY,0.0051,0.0769,253,0.0148,,0.0024,0.01,35.2,MPG,,,,,33.53,0.5562,0.01433,9.

3,0.2999,0.01593,,,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI G37X COUPE
AWD,MLD340,3,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.36,33.2,1,Not eqipped,BNSX10019957,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,21.8,MPG,,,,,33.84,0.5614,0.01462,12.75,0.2182,0.01717,,,N,,,N,No
averaging

2013,Nissan,NSX,INFINITI,INFINITI G37X COUPE
AWD,MLD340,3,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA1,SA,Semi-Automatic,7,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.36,33.2,1,Not
eqipped,BNSX10019959,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,34.5,MPG,,,,,33.84,0.5614,0.01462,12.75,0.2182,0.01717,,,N,,,N,No
averaging

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.4,1,Not
eqipped,DNSX10018839,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0228,0.6203,396,0.0117,,0.0028,0.01,22.5,MPG,,,,,44.18,0.6422,0.01922,11
.05,0.8485,0.01554,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to
n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.4,1,Not
eqipped,DNSX10018840,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0031,0.1059,279,0.0121,,0.0004,0.01,32,MPG,,,,,44.18,0.6422,0.01922,11.0
5,0.8485,0.01554,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.4,1,Not
eqipped,DNSX10018841,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0226,0.4956,393,0.0066,,0.0026,0.01,22.7,MPG,,,,,44.18,0.6422,0.01922,11
.05,0.8485,0.01554,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to
n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.4,1,Not
eqipped,DNSX10018842,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0029,0.1121,279,0.0083,,0.0006,0.01,32,MPG,,,,,44.18,0.6422,0.01922,11.0
5,0.8485,0.01554,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,3,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018843,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0232,0.5214,391,0.0107,,0.0025,0.01,22.8,MPG,,,,,42.77,0.6218,0.01869,9.
55,0.7919,0.01516,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,3,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018844,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0026,0.1632,274,0.0079,,0.0005,0.01,32.5,MPG,,,,,42.77,0.6218,0.01869,9.
55,0.7919,0.01516,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,4,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018845,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0218,0.4479,390,0.0083,,0.0022,0.01,22.8,MPG,,,,,42.77,0.6218,0.01869,9.

55,0.7919,0.01516,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,4,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018846,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025,0.113,274,0.0075,,0.0005,0.01,32.6,MPG,,,,,42.77,0.6218,0.01869,9.55,0.7919,0.01516,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,5,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX91001220,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021735,0.1300883,261.83012,0.0110813,,0.0012879,0.01,34,MPG,,,,,41.71,0.3461,0.02068,9.52,0.5096,0.01718,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,5,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX91001221,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0242152,0.5778048,394.617247,0.024564,,0.0034943,0.01,22.5,MPG,21.7253644,21.5925275,25.2020306,,41.71,0.3461,0.02068,9.52,0.5096,0.01718,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,6,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018847,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0241,0.4607,381,0.0085,,0.0024,0.01,23.4,MPG,,,,,41.71,0.3461,0.02068,9.52,0.5096,0.01718,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI JX35
AWD,GJB181,6,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC6,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.17,26.7,1,Not
eqipped,DNSX10018848,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0026,0.1171,261,0.0083,,0.0006,0.01,34.2,MPG,,,,,41.71,0.3461,0.02068,9.52,0.5096,0.01718,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M35h,DPC240,1,3.5,CNSXV03.5GCA,Car,302,6,AQ35HAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,CNSX10012165,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0388,0.7315,258,0.0267,,0.0115,0.01,34.5,MPG,23.6,45.1,32.3,43.9,35.68,0.3982,0.01462,23.16,-0.3491,0.02182,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M35h,DPC240,1,3.5,CNSXV03.5GCA,Car,302,6,AQ35HAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,CNSX10012166,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0046,0.1619,201,0.0187,,0.0029,0.01,44.5,MPG,,,,,35.68,0.3982,0.01462,23.16,-0.3491,0.02182,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M35h,DPC240,2,3.5,CNSXV03.5GCA,Car,302,6,AQ35HAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,CNSX10012168,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0385,0.7633,255,0.0315,,0.0122,0.01,34.9,MPG,24.1,45.5,31,47.3,35.68,0.3982,0.01462,23.16,-0.3491,0.02182,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M35h,DPC240,2,3.5,CNSXV03.5GCA,Car,302,6,AQ35HAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel

Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,CNSX10012169,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0051,0.0767,194,0.0429,,0.0031,0.01,46.1,MPG,,,,,35.68,0.3982,0.01462,23
.16,-0.3491,0.02182,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to
n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006426,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0267,0.3824,389,0.0348,,0.0087,0.01,22.9,MPG,,,,,34.39,0.3584,0.01574,11
.04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006427,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0054,0.1081,240,0.0051,,0.0025,0.01,37.1,MPG,,,,,34.39,0.3584,0.01574,11
.04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006428,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0292,0.4433,380,0.0318,,0.0098,0.01,23.4,MPG,,,,,34.39,0.3584,0.01574,11
.04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006429,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0079,0.1038,239,0.01,,0.0038,0.01,37.3,MPG,,,,,34.39,0.3584,0.01574,11.0
4,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006432,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0293,0.4962,387,0.0282,,0.0095,0.01,23,MPG,,,,,34.39,0.3584,0.01574,11.0
4,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006433,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.01,0.0978,241,0.0113,,0.0045,0.01,37,MPG,,,,,34.39,0.3584,0.01574,11.04,
0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,0,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006440,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0284,0.413,378,0.0115,,0.0064,0.01,23.5,MPG,,,,,34.39,0.3584,0.01574,11.
04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006430,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0306,0.4737,387,0.033,,0.0104,0.01,23,MPG,,,,,34.39,0.3584,0.01574,11.04
,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not
eqipped,BNSX10006431,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.009,0.1441,240,0.0192,,0.0045,0.01,37.1,MPG,,,,,34.39,0.3584,0.01574,11.
04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37

Base,DNB141,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not eqipped,BNSX10006441,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.031,0.4862,376,0.0155,,0.0064,0.01,23.6,MPG,,,,,34.39,0.3584,0.01574,11.04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB141,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA7,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.9,1,Not eqipped,BNSX10006442,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0058,0.1152,240,0.0055,,0.0013,0.01,37.1,MPG,,,,,34.39,0.3584,0.01574,11.04,0.1908,0.01612,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006655,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0324,0.5924,391,0.0241,,,,22.7,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006656,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0082,0.2328,249,0.0065,,,,35.8,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006660,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0276,0.5699,400,0.0333,,,,22.2,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006661,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0049,0.1653,249,0.0038,,,,35.8,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006667,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0314,0.6378,400,0.0287,,,,22.2,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006668,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0117,0.1319,252,0.0093,,,,35.3,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,1,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006669,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0318,0.7259,399,0.0254,,,,22.3,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,2,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006662,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0293,0.4422,403,0.0361,,,,22.1,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37

Base,DNB142,2,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006663,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0076,0.1627,249,0.0057,,,,35.8,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,2,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006664,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0296,0.4958,395,0.0325,,,,22.5,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,2,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006665,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0106,0.1636,250,0.0086,,,,35.6,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37
Base,DNB142,2,3.7,BNSXV03.7GAA,Car,330,6,AV37DAA8,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.36,32.4,1,Not eqipped,BNSX10006670,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0337,0.6521,400,0.0324,,,,22.2,MPG,,,,,36.59,0.3821,0.01638,15.26,0.1486,0.01736,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006622,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0082,0.2156,267,0.0078,,,,33.3,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006622,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0082,0.2156,267,0.0078,,,,33.3,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006626,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0071,0.185,268,0.0099,,,,33.2,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006626,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0071,0.185,268,0.0099,,,,33.2,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006636,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028,0.2002,265,0.0029,,,,33.6,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006636,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028,0.2002,265,0.0029,,,,33.6,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X

Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006640,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053,0.0943,266,0.004,,,,33.5,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006640,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053,0.0943,266,0.004,,,,33.5,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10007202,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.022,0.3788,407,0.0173,,,,21.8,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,1,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10007202,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.022,0.3788,407,0.0173,,,,21.8,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006624,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0066,0.0885,267,0.0076,,,,33.3,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006624,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0066,0.0885,267,0.0076,,,,33.3,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006628,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0083,0.203,267,0.0024,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006628,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0083,0.203,267,0.0024,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006638,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053,0.1697,267,0.009,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006638,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053,0.1697,267,0.009,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X

Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006642,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0067,0.0948,267,0.0052,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10006642,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0067,0.0948,267,0.0052,,,,33.4,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10007203,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0208,0.3234,405,0.0154,,,,22,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M37X
Base,DNB140,2,3.7,BNSXV03.7GAB,Car,330,6,AV37DAA9,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.36,32.9,1,Not eqipped,BNSX10007203,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0208,0.3234,405,0.0154,,,,22,MPG,,,,,41.63,0.4968,0.01777,15.4,0.2426,0.01864,,,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56
Base,DNE506,0,5.6,CNSXV05.6G9A,Car,420,8,AK56VAA2,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.2,1,Not eqipped,CNSX10012494,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0186,0.3197,472,0.0306,,,,18.9,MPG,,,,,39.11,0.4092,0.01643,24.9,-0.0769,0.02054,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56
Base,DNE506,0,5.6,CNSXV05.6G9A,Car,420,8,AK56VAA2,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.2,1,Not eqipped,CNSX10012495,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0177,0.2088,264,0.0133,,,,33.7,MPG,,,,,39.11,0.4092,0.01643,24.9,-0.0769,0.02054,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56
Base,DNE506,1,5.6,CNSXV05.6G9A,Car,420,8,AK56VAA2,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.2,1,Not eqipped,CNSX10012496,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.019,0.4308,468,0.0278,,,,19,MPG,,,,,39.11,0.4092,0.01643,24.9,-0.0769,0.02054,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56
Base,DNE506,1,5.6,CNSXV05.6G9A,Car,420,8,AK56VAA2,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,2.61,25.2,1,Not eqipped,CNSX10012497,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0137,0.1324,265,0.0135,,,,33.6,MPG,,,,,39.11,0.4092,0.01643,24.9,-0.0769,0.02054,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56x,DNE525,1,5.6,DNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.61,25.2,1,Not eqipped,DNSX10017571,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0159,0.3454,458,0.011,,0.0066,0.01,19.5,MPG,,,,,45.56,0.4904,0.01786,28.59,0.0403,0.02136,TWC,Three-way catalyst,N,C,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56x,DNE525,1,5.6,DNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel

Drive,2,Top gear ration < 1,4750,2.61,25.2,1,Not eqipped,DNSX10017572,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0187,0.2096,281,0.0167,,0.0067,0.01,31.7,MPG,,,,,45.56,0.4904,0.01786,28.59,0.0403,0.02136,TWC,Three-way catalyst,N,C,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M56x,DNE525,2,5.6,DNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.61,25.2,1,Not eqipped,DNSX10017573,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.018,0.3692,461,0.0094,,0.0069,0.01,19.3,MPG,,,,,45.56,0.4904,0.01786,28.59,0.0403,0.02136,TWC,Three-way catalyst,N,C,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI
M56x,DNE525,2,5.6,DNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,2.61,25.2,1,Not eqipped,DNSX10017574,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.024,0.2118,280,0.015,,0.0075,0.01,31.8,MPG,,,,,45.56,0.4904,0.01786,28.59,0.0403,0.02136,TWC,Three-way catalyst,N,C,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,1,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006466,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0148,0.1302,275,0.0139,,,,32.4,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,1,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006481,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0402,0.5888,451,0.0317,,,,19.7,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,2,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006467,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0382,0.3497,462,0.0323,,,,19.3,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,2,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006468,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0225,0.1543,277,0.0134,,,,32.2,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,2,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006469,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.028,0.2676,456,0.0311,,,,19.5,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,2,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,2.61,25.6,1,Not eqipped,BNSX10006470,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.023,0.162,274,0.0131,,,,32.5,MPG,,,,,43.15,0.4645,0.01721,20.82,0.2111,0.01873,TWC,Three-way catalyst,N,D,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,3,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006471,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0358,0.3493,440,0.0271,,,,20.2,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0
.01735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,3,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006472,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0174,0.1337,257,0.0129,,,,34.7,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0
.01735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,4,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006473,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03,0.2637,444,0.0318,,,,20.1,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0.0
1735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,4,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006474,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0201,0.1477,259,0.0136,,,,34.4,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0
.01735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,4,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006475,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0314,0.2233,440,0.0336,,,,20.2,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0
.01735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI M56X
Base,DNB138,4,5.6,BNSXV05.6G9A,Car,420,8,AK56VAA1,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,4500,2.61,25.6,1,Not
eqipped,BNSX10006476,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.017,0.1169,260,0.013,,,,34.3,MPG,,,,,36.77,0.384,0.01578,13.7,0.1539,0.0
1735,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Nissan,NSX,INFINITI,INFINITI QX56
2WD,TWB022,3,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6000,2.94,23.8,1,Not
eqipped,BNSX10008089,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0325,0.7722,531,0.0235,,0.0165,0.01,16.8,MPG,,,,,25.15,1.0055,0.02572,0.
99,0.3578,0.02979,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
2WD,TWB022,3,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6000,2.94,23.8,1,Not
eqipped,BNSX10008090,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0152,0.2158,317,0.0066,,0.008,0.01,28.1,MPG,,,,,25.15,1.0055,0.02572,0.9
9,0.3578,0.02979,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
2WD,TWB022,4,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,6000,2.94,24,1,Not
eqipped,BNSX10008087,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0339,1.1311,531,0.0143,,0.0136,0.01,16.8,MPG,,,,,26.33,1.0064,0.02622,2.
2,0.3872,0.03056,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
2WD,TWB022,4,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,24,1,Not eqipped,BNSX10008088,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0206,0.3754,326,0.0037,,0.0088,0.01,27.3,MPG,,,,,26.33,1.0064,0.02622,2.2,0.3872,0.03056,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
4WD,TWB022,1,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,24,1,Not eqipped,BNSX10008080,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0318,0.7428,532,0.0222,,0.014,0.01,16.7,MPG,,,,,32.32,0.9667,0.02739,8.61,0.2481,0.03219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
4WD,TWB022,1,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,24,1,Not eqipped,BNSX10008081,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0133,0.2439,328,0.0063,,0.0072,0.01,27.2,MPG,,,,,32.32,0.9667,0.02739,8.61,0.2481,0.03219,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
4WD,TWB022,2,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,23.8,1,Not eqipped,BNSX10008078,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0386,1.3065,532,0.0133,,0.0159,0.01,16.7,MPG,,,,,31.11,0.9658,0.0269,8.54,0.2876,0.03105,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,INFINITI,INFINITI QX56
4WD,TWB022,2,5.6,BNSXT05.6G9C,Truck,400,8,AK56VAA3,SA,Semi-Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,23.8,1,Not eqipped,BNSX10008079,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0197,0.3536,329,0.0028,,0.0098,0.01,27.1,MPG,,,,,31.11,0.9658,0.0269,8.54,0.2876,0.03105,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB385,3,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01081811,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.047,0.67,577,0.0167,,0.0078,0.01,15.4,MPG,,,,,31.15,0.9923,0.02352,5.3,0.3433,0.02854,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB385,3,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01081845,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0495,0.6721,573,0.0177,,0.008,0.01,15.5,MPG,,,,,31.15,0.9923,0.02352,5.3,0.3433,0.02854,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB385,3,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01083203,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022,0.0436,345,0.0041,,0.0021,0.01,25.8,MPG,,,,,31.15,0.9923,0.02352,5.3,0.3433,0.02854,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB386,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01081789,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0371,0.5572,590,0.0054,,0.0027,0.01,15.1,MPG,,,,,33.51,0.9965,0.02568,10.97,0.1616,0.0318,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB386,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01081790,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0018,0.0566,368,0.004,,0,0.01,24.2,MPG,,,,,33.51,0.9965,0.02568,10.97,0.1616,0.0318,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB386,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01081823,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0416,0.6902,590,0.0145,,0.0033,0.01,15.1,MPG,,,,,33.51,0.9965,0.02568,10
.97,0.1616,0.0318,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,ARMADA SE 5.6L
4X4,SKB386,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01081824,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0017,0.0492,368,0.0031,,0,0.01,24.2,MPG,,,,,33.51,0.9965,0.02568,10.97,0
.1616,0.0318,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.7,1,Not
eqipped,ANSX10002652,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0252,0.531,397,0.018,,,,22.4,MPG,,,,,42.14,0.1865,0.02093,22.11,-
0.1845,0.0239,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.7,1,Not
eqipped,ANSX10002653,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0072,0.1021,258,0.0095,,,,34.5,MPG,,,,,42.14,0.1865,0.02093,22.11,-
0.1845,0.0239,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.7,1,Not
eqipped,ANSX10002654,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0273,0.531,397,0.0163,,,,22.4,MPG,,,,,42.14,0.1865,0.02093,22.11,-
0.1845,0.0239,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.7,1,Not
eqipped,ANSX10002655,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0075,0.1042,258,0.0147,,,,34.5,MPG,,,,,42.14,0.1865,0.02093,22.11,-
0.1845,0.0239,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002656,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0266,0.5964,394,0.0166,,,,22.5,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002657,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.007,0.1008,257,0.0111,,,,34.6,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002658,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.025,0.4801,392,0.0218,,,,22.7,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002659,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0069,0.077,258,0.0163,,,,34.5,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002716,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0265,0.5469,396,0.0205,,,,22.5,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3875,3.36,33.8,1,Not
eqipped,ANSX10002717,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0097,0.1094,257,0.0224,,,,34.6,MPG,,,,,41.63,0.1832,0.0205,21.86,-
0.1344,0.02273,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,6,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3750,3.36,33.8,1,Not
eqipped,ANSX10002660,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0267,0.5125,393,0.0194,,,,22.6,MPG,,,,,40.71,0.1792,0.02047,21.64,-
0.1503,0.0229,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,6,3.7,ANSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3750,3.36,33.8,1,Not
eqipped,ANSX10002661,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0077,0.1123,257,0.0079,,,,34.6,MPG,,,,,40.71,0.1792,0.02047,21.64,-
0.1503,0.0229,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,8,3.7,ANSXV03.7GAA,Car,332,6,AV37DAAA,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3625,3.36,33.8,1,Not
eqipped,ANSX10006004,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0265,0.3484,375,0.0187,,,,23.7,MPG,,,,,39.13,0.0584,0.01935,19.48,-
0.2568,0.02177,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,8,3.7,ANSXV03.7GAA,Car,332,6,AV37DAAA,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3625,3.36,33.8,1,Not
eqipped,ANSX10006005,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0093,0.0708,241,0.0208,,,,36.9,MPG,,,,,39.13,0.0584,0.01935,19.48,-
0.2568,0.02177,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,9,3.7,DNSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3750,3.36,33.8,1,Not
eqipped,DNSX10020322,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0059,0.01,36.8,MPG,,,,,40.06,0.0598,0.01941,20,-
0.2125,0.02088,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB033,9,3.7,DNSXV03.7GAA,Car,332,6,AV37DAA6,SA,Semi-Automatic,7,Y,R,"2-Wheel
Drive, Rear",2,Top gear ration < 1,3750,3.36,33.8,1,Not
eqipped,DNSX10020323,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0087,0.01,23.6,MPG,,,,,40.06,0.0598,0.01941,20,-
0.2125,0.02088,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,0,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3625,3.69,38.3,1,Not eqipped,ANSX10002692,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0276,0.9541,392,0.0363,,,,22.6,MPG,,,,,32.58,0.1893,0.01871,19.13,-
0.2417,0.02172,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,0,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,3625,3.69,38.3,1,Not eqipped,ANSX10002693,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0.0034,0.2258,247,0.0159,,,,36,MPG,,,,,32.58,0.1893,0.01871,19.13,-
0.2417,0.02172,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER

Touring,FHB034,0,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.3,1,Not eqipped,ANSX10002694,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0297,1.0964,392,0.022,,,,22.6,MPG,,,,,32.58,0.1893,0.01871,19.13,-0.2417,0.02172,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,0,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.3,1,Not eqipped,ANSX10002695,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0048,0.1859,246,0.0198,,,,36.2,MPG,,,,,32.58,0.1893,0.01871,19.13,-0.2417,0.02172,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.2,1,Not eqipped,ANSX10002696,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0278,0.9659,393,0.0207,,,,22.6,MPG,,,,,33.09,0.1925,0.0194,19.24,-0.1519,0.02119,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.2,1,Not eqipped,ANSX10002697,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0035,0.2189,248,0.0144,,,,35.9,MPG,,,,,33.09,0.1925,0.0194,19.24,-0.1519,0.02119,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.2,1,Not eqipped,ANSX10002698,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0288,1.043,393,0.0264,,,,22.6,MPG,,,,,33.09,0.1925,0.0194,19.24,-0.1519,0.02119,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,1,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.69,38.2,1,Not eqipped,ANSX10002699,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0047,0.2084,249,0.0298,,,,35.7,MPG,,,,,33.09,0.1925,0.0194,19.24,-0.1519,0.02119,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.69,38.3,1,Not eqipped,ANSX10002700,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0294,1.0378,400,0.037,,,,22.2,MPG,,,,,33.99,0.2694,0.01998,16.99,0.0539,0.01998,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z ROADSTER
Touring,FHB034,2,3.7,ANSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.69,38.3,1,Not eqipped,ANSX10002701,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0063,0.2777,255,0.0386,,,,34.9,MPG,,,,,33.99,0.2694,0.01998,16.99,0.0539,0.01998,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z
Touring,FGE332,0,3.7,DNSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.69,38.3,1,Not eqipped,DNSX10019105,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0192,0.6404,405,0.0302,,0.0047,0.01,21.9,MPG,,,,,34.35,0.2707,0.01999,16.66,-0.0232,0.02099,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN 370Z
Touring,FGE332,0,3.7,DNSXV03.7GAA,Car,332,6,AV37DAM2,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.69,38.3,1,Not eqipped,DNSX10019106,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0035,0.2388,261,0.0215,,0.0009,0.01,34.1,MPG,,,,,34.35,0.2707,0.01999,16.66,-0.0232,0.02099,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA

2.5S,FKB337,1,2.5,ANSXJ02.5G5A,Both,175,4,AR25DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,5.12,26.8,1,Not eqipped,ANSX10005928,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0334,0.623,301,0.009,,0.0081,0.01,29.5,MPG,,,,,45.6,-0.4795,0.02396,20.42,-0.4103,0.02201,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5S,FKB337,1,2.5,ANSXJ02.5G5A,Both,175,4,AR25DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,5.12,26.8,1,Not eqipped,ANSX10005929,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0047,0.1513,199,0.0042,,0.0036,0.01,44.7,MPG,,,,,45.6,-0.4795,0.02396,20.42,-0.4103,0.02201,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB063,1,2.5,DNSXV02.5G5A,Car,182,4,AR25DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.83,24.5,1,Not eqipped,DNSX10020708,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0042,0.199,163,0.0071,,0.0028,0.01,54.6,MPG,,,,,29.85,-0.1069,0.01879,8.72,-0.0099,0.01617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB063,1,2.5,DNSXV02.5G5A,Car,182,4,AR25DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.83,24.5,1,Not eqipped,DNSX10020718,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0114,0.3253,253,0.0038,,0.0042,0.01,35.2,MPG,34.8,33.2,39.7,,29.85,-0.1069,0.01879,8.72,-0.0099,0.01617,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB063,2,2.5,DNSXV02.5G5A,Car,182,4,AR25DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.83,24.6,1,Not eqipped,DNSX10020709,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039,0.1694,153,0.0054,,0.0027,0.01,58.2,MPG,,,,,28.04,-0.1188,0.01815,5.27,0.0195,0.01545,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB063,2,2.5,DNSXV02.5G5A,Car,182,4,AR25DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.83,24.6,1,Not eqipped,DNSX10020719,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0124,0.3542,245,0.005,,0.0052,0.01,36.3,MPG,36.1,34.5,40.4,,28.04,-0.1188,0.01815,5.27,0.0195,0.01545,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB066,1,2.5,DNSXV02.585A,Car,177,4,AR25DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.83,24.5,1,Not eqipped,DNSX10020710,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001,0.1298,162,0,,0,0.01,55,MPG,,,,,29.85,-0.1069,0.01879,9.4,-0.0179,0.01639,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB066,1,2.5,DNSXV02.585A,Car,177,4,AR25DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.83,24.5,1,Not eqipped,DNSX10020720,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0053,0.26,253,0.0078,,0.0021,0.01,35.2,MPG,34.7,33.4,39.7,,29.85,-0.1069,0.01879,9.4,-0.0179,0.01639,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB066,3,2.5,DNSXV02.585A,Car,177,4,AR25DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.83,24.6,1,Not eqipped,DNSX91001372,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0046535,0.2468261,264.1005962,0.0116904,,0.0020543,0.01,33.7,MPG,32.3757744,31.8429681,39.0520365,,28.04,-0.1188,0.01815,6.91,0.0542,0.01484,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
2.5SL,FPB066,3,2.5,DNSXV02.585A,Car,177,4,AR25DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.83,24.6,1,Not eqipped,DNSX91001374,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0002653,0.1315811,162.3288567,0.001656,,0.000305,0.01,54.9,MPG,,,,,28.04,-0.1188,0.01815,6.91,0.0542,0.01484,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,1,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3750,4.68,23.6,1,Not
eqipped,DNSX10020614,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0008,0.1066,205,0.0024,,0,0.01,43.4,MPG,,,,,32.96,0.082,0.01835,8.81,0.1
728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,1,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3750,4.68,23.6,1,Not
eqipped,DNSX10020618,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0273,0.4247,318,0.0097,,0.0062,0.01,28,MPG,26.5,26.7,32.3,,32.96,0.082,0
.01835,8.81,0.1728,0.01641,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,2,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,4.68,23.6,1,Not
eqipped,DNSX10019219,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0397,0.5773,315,0.0082,,0.0069,0.01,28.2,MPG,,,,,32.3,0.0811,0.01828,7.7
9,0.2241,0.01572,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,2,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,4.68,23.6,1,Not
eqipped,DNSX10019220,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013,0.1043,207,0.0026,,0.0011,0.01,43.1,MPG,,,,,32.3,0.0811,0.01828,7.7
9,0.2241,0.01572,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,3,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,4.68,23.6,1,Not
eqipped,DNSX10019221,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0308,0.4806,314,0.0107,,0.0067,0.01,28.3,MPG,,,,,32.67,0.0815,0.01834,7.
79,0.2241,0.01572,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ALTIMA
3.5SL,FPB064,3,3.5,DNSXV03.5G7A,Car,270,6,AV35DAC1,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3625,4.68,23.6,1,Not
eqipped,DNSX10020622,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0005,0.0968,203,0.0051,,0,0.01,43.9,MPG,,,,,32.67,0.0815,0.01834,7.79,0.
2241,0.01572,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB308,8,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01082528,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0438,0.7508,580,0.0069,,0.0075,0.01,15.3,MPG,,,,,31.15,0.9923,0.02352,8.
25,0.2196,0.02977,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB308,8,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01082566,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0418,0.6774,582,0.0099,,0.0069,0.01,15.3,MPG,,,,,31.15,0.9923,0.02352,8.
25,0.2196,0.02977,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB308,8,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01083198,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.001,0.0673,346,0.004,,0.001,0.01,25.7,MPG,,,,,31.15,0.9923,0.02352,8.25,
0.2196,0.02977,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB308,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01083101,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0004,0.0805,338,0.0037,,0.0001,0.01,18.6,MPG,,,,,31.15,0.9923,0.02352,8
.25,0.2196,0.02977,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB308,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,25.8,1,Not eqipped,9NSX01083109,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0316,0.2114,559,0.0106,,0.0141,0.01,11.3,MPG,,,,,31.15,0.9923,0.02352,8
.25,0.2196,0.02977,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01082522,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0415,0.6098,590,0.007,,0.0033,0.01,15.1,MPG,,,,,33.51,0.9965,0.02568,12.
01,0.1169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01082523,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0007,0.0937,371,0.0067,,0,0.01,24,MPG,,,,,33.51,0.9965,0.02568,12.01,0.1
169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01082560,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0419,0.7176,584,0.0104,,0.0039,0.01,15.2,MPG,,,,,33.51,0.9965,0.02568,12
.01,0.1169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01082561,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.001,0.1069,366,0.0089,,0,0.01,24.3,MPG,,,,,33.51,0.9965,0.02568,12.01,0.
1169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01083098,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0038,0.0942,349,0.0029,,0.0032,0.01,18,MPG,,,,,33.51,0.9965,0.02568,12.
01,0.1169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,Nissan Armada SE 5.6l
4x4,SKB310,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,9NSX01083107,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0422,0.2081,554,0.0127,,0.0169,0.01,11.4,MPG,,,,,33.51,0.9965,0.02568,1
2.01,0.1169,0.03191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
S,PPC236,1,1.8,BNSXV01.881A,Car,118,4,AM18DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3125,5.47,33.7,1,Not
eqipped,BNSX10010904,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0014,0.1517,201,0.0009,,0,0.01,43.5,MPG,,,,,34.24,-
0.1608,0.02727,11.55,-0.0417,0.02495,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
S,PPC236,1,1.8,BNSXV01.881A,Car,118,4,AM18DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel
Drive, Front",2,Top gear ration < 1,3125,5.47,33.7,1,Not
eqipped,BNSX10011475,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.0053,0.1486,252,0.0083,,0.001,0.01,34.6,MPG,31.5,35.2,36.4,,34.24,-
0.1608,0.02727,11.55,-0.0417,0.02495,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
S,PPE437,0,1.8,BNSXV01.8G1B,Car,122,4,AM18DAM2,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3125,3.93,45.9,1,Not eqipped,BNSX10010900,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0251,0.3985,276,0.0202,,0.0041,0.01,32.2,MPG,,,,,16.39,0.2969,0.02477,1.
59,0.1261,0.025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
S,PPE437,0,1.8,BNSXV01.8G1B,Car,122,4,AM18DAM2,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3125,3.93,45.9,1,Not
eqipped,BNSX10010901,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0048,0.1994,214,0.0025,,0.0041,0.01,41.6,MPG,,,,,16.39,0.2969,0.02477,1.
59,0.1261,0.025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
SL,PPE435,1,1.8,BNSXV01.8G1B,Car,122,4,AM18DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,5.47,33.7,1,Not
eqipped,BNSX91000715,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0475463,0.5982438,260.079961,0.02323,,0.0048006,0.01,34,MPG,30.2410325,3
4.6706525,36.1083241,,34.24,-0.1608,0.02727,7.02,0.0296,0.02434,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
SL,PPE435,1,1.8,BNSXV01.8G1B,Car,122,4,AM18DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,5.47,33.7,1,Not
eqipped,BNSX91000716,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0059101,0.1708374,202.8505994,0.0307274,,0.0018616,0.01,43.7,MPG,,,,,34.
24,-0.1608,0.02727,7.02,0.0296,0.02434,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
SL,PPE435,2,1.8,BNSXV01.8G1B,Car,122,4,AM18DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,5.47,33.6,1,Not
eqipped,BNSX10010899,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0059,0.2526,204,0.0132,,0.0028,0.01,43.6,MPG,,,,,33.22,-
0.1615,0.0275,6.96,0.0723,0.02357,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN CUBE 1.8
SL,PPE435,2,1.8,BNSXV01.8G1B,Car,122,4,AM18DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3125,5.47,33.6,1,Not
eqipped,BNSX10011472,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0399,0.3753,257,0.0183,,0.0032,0.01,34.6,MPG,,,,,33.22,-
0.1615,0.0275,6.96,0.0723,0.02357,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN GT-
R,MNE291,3,3.8,CNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,CNSX10011055,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0396,0.6219,427,0.0223,,0.0106,0.01,20.8,MPG,19.4,20.1,23.7,,35.33,0.255
1,0.01913,17.67,0.051,0.01913,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-
R,MNE291,3,3.8,CNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,CNSX10011056,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0017,0.1604,293,0.0032,,0.0004,0.01,30.4,MPG,,,,,35.33,0.2551,0.01913,17
.67,0.051,0.01913,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-
R,MNE291,4,3.8,CNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,CNSX10011058,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0393,0.6334,433,0.0197,,0.0103,0.01,20.6,MPG,19.1,19.7,23.8,,35.33,0.255
1,0.01913,17.67,0.051,0.01913,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-
R,MNE291,4,3.8,CNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,CNSX10011059,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0018,0.1845,290,0.0028,,0.0008,0.01,30.7,MPG,,,,,35.33,0.2551,0.01913,17
.67,0.051,0.01913,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-

R,MNE291,6,3.8,DNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,DNSX10016382,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0433,1.1957,442,0.0305,,0.0156,0.01,20.1,MPG,18.3,19.6,22.9,,38.6,0.2803,0.01856,21.3,0.0561,0.01856,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-R,MNE291,6,3.8,DNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,DNSX10016385,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.2986,299,0.0048,,0,0.01,29.8,MPG,,,,,38.6,0.2803,0.01856,21.3,0.0561,0.01856,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-R,MNE291,7,3.8,DNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,DNSX10016384,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0004,0.2761,294,0,,0,0.01,30.3,MPG,,,,,38.6,0.2803,0.01856,21.3,0.0561,0.01856,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-R,MNE291,7,3.8,DNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,DNSX10016392,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0334,1.0228,436,0.0079,,0.0131,0.01,20.4,MPG,18.7,20,23.1,,38.6,0.2803,0.01856,21.3,0.0561,0.01856,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN GT-R,MNE291,7,3.8,DNSXV03.8GBA,Car,530,6,AV38DAA1,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.7,36.5,1,Not eqipped,DNSX10016398,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.3347,292,0.003,,0,0.01,30.5,MPG,,,,,38.6,0.2803,0.01856,21.3,0.0561,0.01856,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Nissan,NSX,NISSAN,NISSAN JUKE SV,KHE479,0,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.8,30.5,1,Not eqipped,CNSX10014976,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021,0.038,196,0.0006,,0.0018,0.01,45.5,MPG,,,,,39,-0.4522,0.02935,9.7,-0.3197,0.0261,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE SV,KHE479,0,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.8,30.5,1,Not eqipped,CNSX10016175,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.028,0.5489,252,0.0128,,0.014,0.01,35.3,MPG,,,,,39,-0.4522,0.02935,9.7,-0.3197,0.0261,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE SV,KHE479,1,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,5.8,30.5,1,Not eqipped,CNSX10014974,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0011,0.033,198,0.0006,,0.0008,0.01,45,MPG,,,,,39.21,-0.4513,0.02934,10.58,-0.3316,0.02638,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE SV,KHE479,1,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,5.8,30.5,1,Not eqipped,CNSX10016176,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0236,0.2374,259,0.0131,,0.0124,0.01,34.4,MPG,,,,,39.21,-0.4513,0.02934,10.58,-0.3316,0.02638,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE SV,KHE480,1,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,A,All

Wheel Drive,2,Top gear ration < 1,3500,5.8,30.5,1,Not
eqipped,CNSX10014972,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022,0.0406,213,0.0006,,0.0018,0.01,41.8,MPG,,,,,43.41,-
0.2097,0.02673,14.04,-0.1074,0.02363,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE
SV,KHE480,1,1.6,CNSXV01.6GDA,Car,188,4,AM16DAC1,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,3500,5.8,30.5,1,Not
eqipped,CNSX10016174,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0271,0.2801,274,0.0137,,0.0095,0.01,32.5,MPG,,,,,43.41,-
0.2097,0.02673,14.04,-0.1074,0.02363,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE
SV,KHE481,0,1.6,CNSXV01.6GDA,Car,188,4,AM16DAM1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,4.21,43.1,1,Not eqipped,CNSX10014977,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.022,0.3737,278,0.0046,,0.0073,0.01,32,MPG,,,,,20.11,0.1731,0.02398,2.54,
-0.0155,0.02404,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN JUKE
SV,KHE481,0,1.6,CNSXV01.6GDA,Car,188,4,AM16DAM1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3250,4.21,43.1,1,Not
eqipped,CNSX10014978,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0072,0.0719,205,0,,0.0066,0.01,43.4,MPG,,,,,20.11,0.1731,0.02398,2.54,-
0.0155,0.02404,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA 4-DOOR SEDAN
3.5S,CLB064,2,3.5,9NSXV03.5G7A,Car,290,,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,9NSX01084208,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0237,0.2947,366,0.0158,,0.0047,0.01,24.3,MPG,,,,,41.73,-
0.2789,0.02405,12.99,-0.2089,0.0216,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA 4-DOOR SEDAN
3.5S,CLB064,2,3.5,9NSXV03.5G7A,Car,290,,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,9NSX01084209,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0019,0.0996,247,0.0099,,0.0016,0.01,36,MPG,,,,,41.73,-
0.2789,0.02405,12.99,-0.2089,0.0216,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA 4-DOOR SEDAN
3.5S,CLB064,2,3.5,9NSXV03.5G7A,Car,290,,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,9NSX01084210,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0247,0.3367,368,0.0158,,0.0054,0.01,24.1,MPG,,,,,41.73,-
0.2789,0.02405,12.99,-0.2089,0.0216,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA 4-DOOR SEDAN
3.5S,CLB064,2,3.5,9NSXV03.5G7A,Car,290,,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,9NSX01084211,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025,0.0854,245,0.0138,,0.002,0.01,36.3,MPG,,,,,41.73,-
0.2789,0.02405,12.99,-0.2089,0.0216,,,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA
SV,CLE230,1,3.5,CNSXV03.5G7B,Car,290,6,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,CNSX10021651,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,0.0032,0.01,23.9,MPG,,,,,46.11,-0.3082,0.02467,16.46,-
0.2663,0.02247,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MAXIMA
SV,CLE230,1,3.5,CNSXV03.5G7B,Car,290,6,AV35DAC2,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3875,5.17,29.4,1,Not
eqipped,CNSX10021652,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,0.0002,0.01,35.9,MPG,,,,,46.11,-0.3082,0.02467,16.46,-
0.2663,0.02247,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,1,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All

Wheel Drive,2,Top gear ration < 1,4500,5.17,26.4,1,Not
eqipped,BNSX91000673,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0270687,0.5935925,406.1835502,0.0427653,,0.0048827,0.01,21.8,MPG,20.5031
036,21.1618965,24.402443,,41.08,0.3512,0.02421,13.36,0.3696,0.0229,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,1,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4500,5.17,26.4,1,Not
eqipped,BNSX91000674,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0032135,0.1212471,274.6918735,0.0093425,,0.001574,0.01,32.3,MPG,,,,,41.0
8,0.3512,0.02421,13.36,0.3696,0.0229,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,2,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4500,5.17,26.7,1,Not
eqipped,BNSX10010301,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0023,0.08,274,0.0077,,0.0019,0.01,32.6,MPG,,,,,38.82,0.3318,0.02428,7.66
,0.404,0.02246,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,2,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4500,5.17,26.7,1,Not
eqipped,BNSX10011336,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0172,0.3056,393,0.0147,,0.0041,0.01,22.7,MPG,,,,,38.82,0.3318,0.02428,7.
66,0.404,0.02246,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,3,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4250,5.17,26.7,1,Not
eqipped,BNSX10010302,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0163,0.3357,391,0.0123,,0.0047,0.01,22.8,MPG,,,,,38.05,0.3253,0.02431,6.
07,0.407,0.02255,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,3,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,A,All
Wheel Drive,2,Top gear ration < 1,4250,5.17,26.7,1,Not
eqipped,BNSX10010303,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025,0.0673,272,0.0079,,0.0022,0.01,32.9,MPG,,,,,38.05,0.3253,0.02431,6.
07,0.407,0.02255,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,4,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,4250,5.17,26.7,1,Not
eqipped,BNSX10010304,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0144,0.303,388,0.0168,,0.0039,0.01,23,MPG,,,,,36.84,0.2165,0.02557,5.8,0
.314,0.02319,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN MURANO AWD
LE,SEE454,4,3.5,BNSXT03.5G7A,Truck,265,6,AV35DAC3,CVT,Continuously Variable,1,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,4250,5.17,26.7,1,Not
eqipped,BNSX10010305,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0027,0.0733,271,0.0094,,0.0023,0.01,33,MPG,,,,,36.84,0.2165,0.02557,5.8,
0.314,0.02319,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD
Platinum,GKB043,0,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,5.58,25.1,1,Not
eqipped,DNSX10021173,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0252,0.4772,356,0.0139,,0.0059,0.01,25,MPG,,,,,31.91,0.3378,0.02351,4.68
,0.4712,0.02096,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD
Platinum,GKB043,0,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,5.58,25.1,1,Not
eqipped,DNSX10021174,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021,0.0502,248,0.0086,,0.0014,0.01,36,MPG,,,,,31.91,0.3378,0.02351,4.68
,0.4712,0.02096,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD

Platinum,GKB043,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,5.58,25.1,1,Not
eqipped,DNSX10021175,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0239,0.4813,358,0.0131,,0.0052,0.01,24.9,MPG,,,,,32.23,0.3378,0.02351,6.
83,0.4418,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD
Platinum,GKB043,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,5.58,25.1,1,Not
eqipped,DNSX10021176,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025,0.0595,251,0.0092,,0.0017,0.01,35.5,MPG,,,,,32.23,0.3378,0.02351,6.
83,0.4418,0.02122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD
Platinum,GKB043,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.58,24.8,1,Not
eqipped,DNSX10021177,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0242,0.4475,357,0.0236,,0.0032,0.01,24.9,MPG,,,,,32.73,0.3981,0.02292,6.
23,0.5118,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 2WD
Platinum,GKB043,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,5.58,24.8,1,Not
eqipped,DNSX10021178,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014,0.0644,245,0.0115,,0.0001,0.01,36.4,MPG,,,,,32.73,0.3981,0.02292,6.
23,0.5118,0.0205,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,0,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,24.8,1,Not
eqipped,DNSX10021169,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0235,0.4184,363,0.0138,,0.003,0.01,24.5,MPG,,,,,36.09,0.5874,0.02018,9.2
1,0.6463,0.01833,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,0,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,24.8,1,Not
eqipped,DNSX10021170,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0019,0.0914,256,0.0119,,0.0003,0.01,34.8,MPG,,,,,36.09,0.5874,0.02018,9.
21,0.6463,0.01833,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,25.1,1,Not
eqipped,DNSX10021165,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0255,0.5365,368,0.0154,,0.0026,0.01,24.2,MPG,,,,,34.7,0.5648,0.01996,7.6
3,0.6418,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,1,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,25.1,1,Not
eqipped,DNSX10021166,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028,0.0804,256,0.0138,,0.0023,0.01,34.8,MPG,,,,,34.7,0.5648,0.01996,7.6
3,0.6418,0.01774,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,25.1,1,Not
eqipped,DNSX10021167,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0233,0.4608,368,0.0127,,0.0054,0.01,24.2,MPG,,,,,35.03,0.5648,0.01996,8.
14,0.648,0.01756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN PATHFINDER 4WD
Platinum,GKB042,2,3.5,DNSXT03.5G7B,Truck,265,6,AV35DAC4,CVT,Continuously
Variable,1,Y,4,4-Wheel Drive,2,Top gear ration < 1,4750,5.58,25.1,1,Not
eqipped,DNSX10021168,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003,0.0785,255,0.0158,,0.0028,0.01,35,MPG,,,,,35.03,0.5648,0.01996,8.14,
0.648,0.01756,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN QUEST

LE,WXC122,2,3.5,CNSXT03.5G7C,Truck,265,6,AV35DAC8,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.88,26.7,1,Not eqipped,CNSX10018870,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0176,0.39,376,0.0059,,0.0026,0.01,23.7,MPG,,,,,40.5,0.0999,0.02769,9.23,0.1539,0.02526,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN QUEST
LE,WXC122,2,3.5,CNSXT03.5G7C,Truck,265,6,AV35DAC8,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.88,26.7,1,Not eqipped,CNSX10018873,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0028,0.0812,263,0.0012,,0.0018,0.01,33.9,MPG,,,,,40.5,0.0999,0.02769,9.23,0.1539,0.02526,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN QUEST
LE,WXC122,3,3.5,CNSXT03.5G7C,Truck,265,6,AV35DAC8,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.88,27.5,1,Not eqipped,CNSX10018871,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0186,0.3977,368,0.0082,,0.0032,0.01,24.2,MPG,,,,,42.86,-0.3154,0.03196,12.78,-0.2268,0.02921,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN QUEST
LE,WXC122,3,3.5,CNSXT03.5G7C,Truck,265,6,AV35DAC8,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.88,27.5,1,Not eqipped,CNSX10018872,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.0707,255,0.0009,,0.0014,0.01,35,MPG,,,,,42.86,-0.3154,0.03196,12.78,-0.2268,0.02921,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,1,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,28.9,1,Not eqipped,CNSX10014518,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0025,0.2559,246,0.0006,,0.0004,0.01,36.2,MPG,,,,,64.88,-0.8473,0.03786,39.53,-0.9833,0.03785,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,1,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,28.9,1,Not eqipped,CNSX10015309,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.023,0.5704,332,0.0055,,0.0023,0.01,26.8,MPG,,,,,64.88,-0.8473,0.03786,39.53,-0.9833,0.03785,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,2,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,29.1,1,Not eqipped,CNSX10015310,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0216,0.4693,317,0.0061,,0.0046,0.01,28,MPG,,,,,55.53,-0.7531,0.0363,33.47,-0.8587,0.03597,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,2,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,29.1,1,Not eqipped,CNSX10015311,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034,0.2234,233,0.0042,,0.0023,0.01,38.2,MPG,,,,,55.53,-0.7531,0.0363,33.47,-0.8587,0.03597,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,3,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,5.8,28.9,1,Not eqipped,CNSX10015307,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0278,0.4577,315,0.0022,,0.0025,0.01,28.2,MPG,,,,,58.47,-0.7364,0.03595,35.3,-0.897,0.03601,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,3,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,5.8,28.9,1,Not eqipped,CNSX10015308,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0021,0.1717,234,0.0036,,0.0003,0.01,38,MPG,,,,,58.47,-0.7364,0.03595,35.3,-0.897,0.03601,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD

SV,BRE218,4,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,28.9,1,Not eqipped,CNSX10014528,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.1937,225,0.003,,0.0006,0.01,39.6,MPG,,,,,50.31,-0.485,0.03063,29.7,-0.6571,0.03114,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,4,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,28.9,1,Not eqipped,CNSX10015313,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0237,0.5124,306,0.0042,,0.0024,0.01,29,MPG,,,,,50.31,-0.485,0.03063,29.7,-0.6571,0.03114,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,5,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,29.1,1,Not eqipped,CNSX10014524,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0014,0.1409,219,0.0048,,0.0002,0.01,40.7,MPG,,,,,46.57,-0.5079,0.03108,27.5,-0.6623,0.03104,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE218,5,2.5,CNSXT02.575A,Truck,170,4,AR25DCC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,29.1,1,Not eqipped,CNSX10015312,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0253,0.4528,302,0.0011,,0.0023,0.01,29.4,MPG,,,,,46.57,-0.5079,0.03108,27.5,-0.6623,0.03104,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,1,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,28.9,1,Not eqipped,CNSX10014506,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.003,0.2457,253,0,,0.0013,0.01,35.2,MPG,,,,,64.88,-0.8473,0.03786,34.97,-0.7477,0.03516,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,1,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,28.9,1,Not eqipped,CNSX10015302,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0258,0.4463,333,0.0045,,0.0031,0.01,26.7,MPG,,,,,64.88,-0.8473,0.03786,34.97,-0.7477,0.03516,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,2,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,29.1,1,Not eqipped,CNSX10015303,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0254,0.4166,318,0.0065,,0.0049,0.01,28,MPG,,,,,55.53,-0.7531,0.0363,36.61,-1.0429,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,2,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,5.8,29.1,1,Not eqipped,CNSX10015304,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0037,0.2356,234,0.0037,,0.0031,0.01,38,MPG,,,,,55.53,-0.7531,0.0363,36.61,-1.0429,0.0378,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,3,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,5.8,28.9,1,Not eqipped,CNSX10014512,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.2216,243,0.0015,,0.0016,0.01,36.6,MPG,,,,,58.47,-0.7364,0.03595,33.35,-0.743,0.03487,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,3,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,5.8,28.9,1,Not eqipped,CNSX10015301,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0268,0.5602,321,0.0076,,0.0041,0.01,27.7,MPG,,,,,58.47,-0.7364,0.03595,33.35,-0.743,0.03487,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD

SV,BRE247,4,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,28.9,1,Not eqipped,CNSX10014510,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034,0.2286,228,0.0023,,0.0021,0.01,39,MPG,,,,,50.31,-0.485,0.03063,25.91,-0.5039,0.02928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,4,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,28.9,1,Not eqipped,CNSX10015306,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0278,0.6079,304,0.0087,,0.0043,0.01,29.2,MPG,,,,,50.31,-0.485,0.03063,25.91,-0.5039,0.02928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,5,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,29.1,1,Not eqipped,CNSX10014507,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0026,0.1622,223,0.0017,,0.0017,0.01,39.9,MPG,,,,,46.57,-0.5079,0.03108,29.02,-0.719,0.03133,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN ROGUE AWD
SV,BRE247,5,2.5,CNSXJ02.5G5B,Both,170,4,AR25DAC3,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,29.1,1,Not eqipped,CNSX10015305,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0284,0.6205,304,0.0089,,0.0042,0.01,29.2,MPG,,,,,46.57,-0.5079,0.03108,29.02,-0.719,0.03133,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
S,KPB089,0,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAM1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.93,42.2,1,Not eqipped,DNSX10021594,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0287,0.7126,254,0.0159,,0.0029,0.01,34.9,MPG,,,,,19.84,0.2907,0.01548,6.95,0.1089,0.01568,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
S,KPB089,0,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAM1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.93,42.2,1,Not eqipped,DNSX10021595,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039,0.3146,175,0.0027,,0.0021,0.01,50.8,MPG,,,,,19.84,0.2907,0.01548,6.95,0.1089,0.01568,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SL,KPB088,1,1.8,DNSXV01.881B,Car,124,4,ARA8DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27,1,Not eqipped,DNSX10021558,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0058,0.2809,228,0.0103,,0.0019,0.01,39,MPG,,,,,25.62,0.1268,0.01698,10.64,0.0422,0.01601,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SL,KPB088,1,1.8,DNSXV01.881B,Car,124,4,ARA8DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27,1,Not eqipped,DNSX10021559,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006,0.1953,162,0.0013,,0,0.01,54.9,MPG,,,,,25.62,0.1268,0.01698,10.64,0.0422,0.01601,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SL,KPB088,2,1.8,DNSXV01.881B,Car,124,4,ARA8DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27.1,1,Not eqipped,DNSX10021556,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0063,0.3483,231,0.0114,,0.0017,0.01,38.5,MPG,,,,,23.65,0.1242,0.01711,10.52,0.0521,0.01607,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SL,KPB088,2,1.8,DNSXV01.881B,Car,124,4,ARA8DCC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27.1,1,Not eqipped,DNSX10021557,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006,0.2059,159,0.0003,,0.0001,0.01,55.9,MPG,,,,,23.65,0.1242,0.01711,10.52,0.0521,0.01607,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA

SV,KPB087,1,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27,1,Not eqipped,DNSX10021597,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.034,0.704,224,0.0167,,0.0068,0.01,39.6,MPG,,,,,25.62,0.1268,0.01698,7.89,0.0448,0.0163,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SV,KPB087,1,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27,1,Not eqipped,DNSX10021599,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0033,0.2969,160,0.0004,,0.0021,0.01,55.5,MPG,,,,,25.62,0.1268,0.01698,7.89,0.0448,0.0163,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SV,KPB087,2,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27.1,1,Not eqipped,DNSX10021596,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.3143,157,0.001,,0.0023,0.01,56.6,MPG,,,,,23.65,0.1242,0.01711,8.61,0.0574,0.01648,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN SENTRA
SV,KPB087,2,1.8,DNSXV01.8G1A,Car,130,4,ARA8DAC2,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,3.52,27.1,1,Not eqipped,DNSX10021598,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0283,0.5278,222,0.0182,,0.006,0.01,40,MPG,,,,,23.65,0.1242,0.01711,8.61,0.0574,0.01648,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE287,5,5.6,DNSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,DNSX10021020,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0238,0.4364,608,0.0029,,0.0022,0.01,14.6,MPG,14.2,14.1,16.1,,44.57,0.9256,0.02501,25.94,0.1456,0.03097,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE287,5,5.6,DNSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,DNSX10021021,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.0795,394,0.0108,,0,0.01,22.6,MPG,,,,,44.57,0.9256,0.02501,25.94,0.1456,0.03097,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE288,4,5.6,DNSXT05.6G9B,Truck,317,8,AK56DAA2,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,ANSX10021026,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.0309,0.4281,605,0.001,,0.002,0.01,14.7,MPG,14.2,14.2,16.2,,44.57,0.9256,0.02501,23.46,0.1377,0.3098,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE288,4,5.6,DNSXT05.6G9B,Truck,317,8,AK56DAA2,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,DNSX10021027,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008,0.0605,389,0.0065,,0,0.01,22.9,MPG,,,,,44.57,0.9256,0.02501,23.46,0.1377,0.3098,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE288,5,5.6,DNSXT05.6G9B,Truck,317,8,AK56DAA2,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,DNSX10021032,No,31,Federal fuel 3-day exhaust,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0132,0.0948,582,0.0115,,0.0038,0.01,10.8,MPG,,,,,44.57,0.9256,0.02501,23.2,0.1717,0.03082,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN TITAN 4WD Crew Cab XE
LWB,SJE288,5,5.6,DNSXT05.6G9B,Truck,317,8,AK56DAA2,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.36,29.4,1,Not eqipped,DNSX10021033,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0008,0.0462,390,0.0031,,0.0001,0.01,16.1,MPG,,,,,44.57,0.9256,0.02501,23.2,0.1717,0.03082,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA

S,HKA402,1,1.6,DNSXV01.6G4A,Car,109,4,AH16DAA1,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,4.08,40.7,1,Not eqipped,DNSX10020981,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0162,0.4261,256,0.0069,,0.0026,0.01,34.7,MPG,33.2,33.7,37.9,,21.54,0.2651,0.01602,3.36,0.248,0.01522,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA402,1,1.6,DNSXV01.6G4A,Car,109,4,AH16DAA1,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,4.08,40.7,1,Not eqipped,DNSX10020982,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0032,0.1672,172,0.0021,,0.0007,0.01,51.7,MPG,,,,,21.54,0.2651,0.01602,3.36,0.248,0.01522,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA403,0,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021509,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027,0.1086,149,0.0055,,0.0013,0.01,59.7,MPG,,,,,15.59,0.2103,0.01608,3.18,0.1177,0.01499,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA403,0,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021517,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0198,0.3243,206,0.0117,,0.0035,0.01,43.1,MPG,,,,,15.59,0.2103,0.01608,3.18,0.1177,0.01499,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA403,2,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021508,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0196,0.394,209,0.0074,,0.0032,0.01,42.5,MPG,,,,,16.07,0.2167,0.01609,4.05,0.128,0.01505,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA403,2,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021513,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.1243,151,0.0021,,0.001,0.01,58.9,MPG,,,,,16.07,0.2167,0.01609,4.05,0.128,0.01505,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA404,0,1.6,DNSXV01.6G4A,Car,109,4,AH16DAM1,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.07,47.8,1,Not eqipped,DNSX10020993,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0251,0.6781,248,0.0125,,0.0041,0.01,35.8,MPG,36.1,33.9,39.7,,17.99,0.3275,0.0155,5.39,0.1873,0.01544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
S,HKA404,0,1.6,DNSXV01.6G4A,Car,109,4,AH16DAM1,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,4.07,47.8,1,Not eqipped,DNSX10020994,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0033,0.2772,174,0.0005,,0.001,0.01,51.1,MPG,,,,,17.99,0.3275,0.0155,5.39,0.1873,0.01544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
SV,HKA403,1,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021507,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012,0.1253,150,0.0011,,0,0.01,59.3,MPG,,,,,15.85,0.2138,0.01608,3.16,0.1109,0.01558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,NISSAN VERSA
SV,HKA403,1,1.6,DNSXV01.6G4A,Car,109,4,AH16DAC1,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.75,29.6,1,Not eqipped,DNSX10021519,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0237,0.3439,207,0.0094,,0.0032,0.01,42.9,MPG,,,,,15.85,0.2138,0.01608,3.16,0.1109,0.01558,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE

LWB,SHB033,24,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAE,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.1,1,Not eqipped,9NSX10005011,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0385,0.7084,570,0.0043,,0.0048,0.01,15.6,MPG,,,,,37.72,0.7954,0.03128,20.56,-0.0241,0.03758,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
LWB,SHB033,24,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAE,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.1,1,Not eqipped,9NSX10005012,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0033,0.0987,357,0.0129,,0.0007,0.01,24.9,MPG,,,,,37.72,0.7954,0.03128,20.56,-0.0241,0.03758,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
LWB,SHB033,25,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAE,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.1,1,Not eqipped,9NSX10005062,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0158,0.3078,553,0.0038,,0.0116,0.01,11.4,MPG,,,,,37.72,0.7954,0.03128,20.56,-0.0241,0.03758,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
LWB,SHB033,25,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAE,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.1,1,Not eqipped,9NSX10005063,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0014,0.0553,342,0.0088,,0.0006,0.01,18.4,MPG,,,,,37.72,0.7954,0.03128,20.56,-0.0241,0.03758,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081813,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0448,0.6652,596,0.0151,,0.007,0.01,14.9,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081813,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0448,0.6652,596,0.0151,,0.007,0.01,14.9,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081814,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.1089,380,0.0037,,0.0017,0.01,23.4,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081814,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029,0.1089,380,0.0037,,0.0017,0.01,23.4,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081847,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0464,0.6567,592,0.0147,,0.0077,0.01,15,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081847,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0464,0.6567,592,0.0147,,0.0077,0.01,15,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE

SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081848,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034,0.0719,378,0.0047,,0.002,0.01,23.5,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,0,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01081848,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034,0.0719,378,0.0047,,0.002,0.01,23.5,MPG,,,,,36,0.8175,0.03312,23.13,0.015,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,1,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01081815,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0436,0.5614,572,0.0116,,0.0067,0.01,15.5,MPG,,,,,34.46,0.7373,0.03385,19.63,0.0048,0.03917,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,1,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01081816,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0034,0.0828,369,0.0035,,0.0022,0.01,24.1,MPG,,,,,34.46,0.7373,0.03385,19.63,0.0048,0.03917,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,1,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01081849,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0431,0.5726,572,0.0136,,0.0076,0.01,15.5,MPG,,,,,34.46,0.7373,0.03385,19.63,0.0048,0.03917,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,1,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01081850,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0026,0.0581,370,0.0039,,0.0019,0.01,24.1,MPG,,,,,34.46,0.7373,0.03385,19.63,0.0048,0.03917,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAAB,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10004967,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0422,0.5424,549,0.0103,,0.0038,0.01,16.2,MPG,,,,,34.46,0.7373,0.03385,18.48,-0.1177,0.04054,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAAB,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10004968,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0037,0.084,352,0.0035,,0.0011,0.01,25.3,MPG,,,,,34.46,0.7373,0.03385,18.48,-0.1177,0.04054,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,5,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAAB,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10004965,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0492,0.7001,561,0.0161,,0.0083,0.01,15.8,MPG,,,,,34.75,0.741,0.03212,21.26,-0.1699,0.03976,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB272,5,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAAB,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10004966,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0039,0.0727,361,0.0052,,0.0026,0.01,24.7,MPG,,,,,34.75,0.741,0.03212,21.26,-0.1699,0.03976,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE

SWB,SJB273,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01081799,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.041,0.6044,582,0.0117,,0.0066,0.01,15.3,MPG,,,,,34.46,0.7373,0.03385,20.16,-0.1857,0.04188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB273,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01081800,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022,0.0755,385,0.0034,,0.0016,0.01,23.1,MPG,,,,,34.46,0.7373,0.03385,20.16,-0.1857,0.04188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB273,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01081833,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0403,0.6006,577,0.0168,,0.0068,0.01,15.4,MPG,,,,,34.46,0.7373,0.03385,20.16,-0.1857,0.04188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJB273,4,5.6,9NSXT05.6G9A,Truck,317,8,AK56DAA1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01081834,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0023,0.0615,384,0.0045,,0.0017,0.01,23.2,MPG,,,,,34.46,0.7373,0.03385,20.16,-0.1857,0.04188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082540,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0418,0.7764,592,0.0041,,0.004,0.01,15,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082540,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0418,0.7764,592,0.0041,,0.004,0.01,15,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082541,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0.1034,375,0.0015,,0.0003,0.01,23.7,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082541,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0.1034,375,0.0015,,0.0003,0.01,23.7,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082578,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0409,0.726,598,0.0075,,0.0046,0.01,14.9,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082578,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0409,0.726,598,0.0075,,0.0046,0.01,14.9,MPG,,,,,36,0.8175,0.03312,21.64,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE

SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082579,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0008,0.0757,371,0.0021,,0.0003,0.01,24,MPG,,,,,36,0.8175,0.03312,21.64,0
.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,9,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082579,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0008,0.0757,371,0.0021,,0.0003,0.01,24,MPG,,,,,36,0.8175,0.03312,21.64,0
.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082497,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0288,0.2296,567,0.0171,,0.015,0.01,11.1,MPG,,,,,36,0.8175,0.03312,21.64
,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01082497,No,21,Federal
fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0288,0.2296,567,0.0171,,0.015,0.01,11.1,MPG,,,,,36,0.8175,0.03312,21.64
,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01083104,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0053,0.0935,354,0.0034,,0.0035,0.01,17.8,MPG,,,,,36,0.8175,0.03312,21.6
4,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,10,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,6000,2.94,26.2,1,Not eqipped,9NSX01083104,No,3,HWFE,38,E85
(85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0053,0.0935,354,0.0034,,0.0035,0.01,17.8,MPG,,,,,36,0.8175,0.03312,21.6
4,0.0438,0.03829,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082538,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0499,0.9079,570,0.0074,,0.0047,0.01,15.6,MPG,,,,,34.46,0.7373,0.03385,20
.09,-0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082539,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0009,0.0655,365,0.0037,,0,0.01,24.4,MPG,,,,,34.46,0.7373,0.03385,20.09,-
0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082576,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0422,0.7282,572,0.0106,,0.0041,0.01,15.5,MPG,,,,,34.46,0.7373,0.03385,20
.09,-0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,11,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel
Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082577,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0008,0.0348,367,0.0036,,0,0.01,24.2,MPG,,,,,34.46,0.7373,0.03385,20.09,-
0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE

SWB,SJE208,12,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082499,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0319,0.2664,546,0.0134,,0.0127,0.01,11.5,MPG,,,,,34.46,0.7373,0.03385,20.09,-0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,12,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX01082500,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0029,0.088,349,0.002,,,,18,MPG,,,,,34.46,0.7373,0.03385,20.09,-0.0864,0.03978,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,22,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAD,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10005064,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.0237,0.2604,539,0.0019,,0.0112,0.01,11.7,MPG,,,,,34.46,0.7373,0.03385,18.9,-0.1432,0.04021,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE208,22,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAD,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10005065,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.002,0.0578,340,0.0047,,0.001,0.01,18.5,MPG,,,,,34.46,0.7373,0.03385,18.9,-0.1432,0.04021,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,13,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082550,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0415,0.6582,571,0.0103,,0.0063,0.01,15.6,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,13,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082551,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017,0.0842,377,0.0044,,0.0015,0.01,23.6,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,13,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082588,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0409,0.6448,571,0.0091,,0.0062,0.01,15.6,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,13,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082589,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.0709,379,0.0056,,0.0017,0.01,23.5,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,14,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082503,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),FTP,0.026,0.1856,551,0.017,,0.0099,0.01,11.4,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE
SWB,SJE209,14,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAA3,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,3.36,30,1,Not eqipped,9NSX01082504,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded Gasoline),HWY,0.0036,0.0728,359,0.0018,,0.0023,0.01,17.5,MPG,,,,,34.46,0.7373,0.03385,15.04,0.0393,0.03892,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE-

SWB,SJE208,21,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAD,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10005024,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0422,0.6345,559,0.0085,,0.0047,0.01,15.9,MPG,,,,,34.46,0.7373,0.03385,18.9,-0.1432,0.04021,TWC,Three-way catalyst,N,,,N,No averaging

2013,Nissan,NSX,NISSAN,TITAN KING-5.6LE-
SWB,SJE208,21,5.6,9NSXT05.6G9B,Truck,317,8,AK56DAAD,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,2.94,26.2,1,Not eqipped,9NSX10005025,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0027,0.0553,356,0.006,,0.0003,0.01,25,MPG,,,,,34.46,0.7373,0.03385,18.9,-0.1432,0.04021,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera,FE991-MT-
12,3,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX91001239,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021617,0.0860113,233.146011,0.003232,,0.0006209,0.01,38.2,MPG,,,,,31.473,0.10999,0.01764,10.274,-0.22757,0.019797,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera,FE991-MT-
12,3,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX91001240,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0219318,0.1317434,375.8877374,0.0161106,,0.0051522,0.01,23.7,MPG,22.9660089,22.305039,27.4876223,,31.473,0.10999,0.01764,10.274,-0.22757,0.019797,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera,FE991-PDK-
12,3,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX10018763,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.05194,0.31366,349.27,0.00864,,,,25.4,MPG,24.42,24.36,28.61,,35.43,0.08889,0.01846,14.478,-0.30499,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera,FE991-PDK-
12,3,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX10018764,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00187,0.01196,224.8,0.00367,,,,39.5,MPG,,,,,35.43,0.08889,0.01846,14.478,-0.30499,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4,FE991-MT-
12,1,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018686,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02096,0.1974,371.89,0.01247,,,,23.9,MPG,23.53,22.65,26.97,,36.194,0.10094,0.0184,14.77,-0.23661,0.020554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4,FE991-MT-
12,1,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018687,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00161,0.0263,232.67,0.00212,,,,38.2,MPG,,,,,36.194,0.10094,0.0184,14.77,-0.23661,0.020554,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4,FE991-PDK-
12,1,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018694,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0425,0.1486,352.37,0.0077,,,,25.2,MPG,24.45,24.11,28.3,,37.543,0.10094,0.0184,17.018,-0.31223,0.021078,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4,FE991-PDK-
12,1,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018695,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0019,0.01254,229.01,0.01266,,,,38.8,MPG,,,,,37.543,0.10094,0.0184,17.018,-0.31223,0.021078,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4 Cabriolet,FE991-MT-

12,0,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018684,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0233,0.1646,379.4,0.0127,,,,23.4,MPG,23.21,22.25,26.18,,39.117,0.10094,0.01898,17.85,-0.23879,0.021136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4 Cabriolet,FE991-MT-
12,0,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018685,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00164,0.0336,241.74,0.0064,,,,36.7,MPG,,,,,39.117,0.10094,0.01898,17.85,-0.23879,0.021136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4 Cabriolet,FE991-PDK-
12,0,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018692,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0436,0.1825,358.62,0.01246,,,,24.7,MPG,24.22,23.78,27.39,,40.466,0.10094,0.01898,19.941,-0.31223,0.02166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4 Cabriolet,FE991-PDK-
12,0,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018693,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021,0.01233,236.05,0.0111,,,,37.7,MPG,,,,,40.466,0.10094,0.01898,19.941,-0.31223,0.02166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S,FE991S-MT-
12,1,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018675,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02147,0.1488,383.59,0.01325,,,,23.1,MPG,22.89,21.87,26.32,,36.194,0.10094,0.0184,15.287,-0.25543,0.020612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S,FE991S-MT-
12,1,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018679,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00176,0.0213,240.54,0.00295,,,,36.9,MPG,,,,,36.194,0.10094,0.0184,15.287,-0.25543,0.020612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S,FE991S-PDK-
12,3,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10017198,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03296,0.1045,367.11,0.01495,0.0035,,,24.2,MPG,23.21,23.36,26.91,,37.543,0.10094,0.0184,17.67,-0.21997,0.0198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S,FE991S-PDK-
12,3,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10017199,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00166,0.01423,241.65,0.00697,,,,36.7,MPG,,,,,37.543,0.10094,0.0184,17.67,-0.21997,0.0198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S Cabriolet,FE991S-MT-
12,0,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018672,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02079,0.19366,388.17,0.01205,,,,22.9,MPG,22.71,21.6,25.93,,39.117,0.10094,0.01898,18.21,-0.25543,0.018108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S Cabriolet,FE991S-MT-
12,0,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX10018673,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00212,0.02576,246.47,0.00345,,,,36.1,MPG,,,,,39.117,0.10094,0.01898,18.21,-0.25543,0.018108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S Cabriolet,FE991S-PDK-
12,2,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not eqipped,CPRX91001151,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0528411,0.300215,382.2073781,0.0154737,0.0094531,0.0086222,0.01,23.3,MPG
,22.6999359,22.323933,25.7710124,,40.466,0.10094,0.01898,19.558,-
0.31223,0.020961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera 4S Cabriolet,FE991S-PDK-
12,2,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,4,4-Wheel Drive,2,Top gear ration < 1,3750,3.44,47.2,1,Not
eqipped,CPRX91001153,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.008807,0.0522952,243.8404598,0.0100177,,0.0012212,0.01,36.5,MPG,,,,,40.4
66,0.10094,0.01898,19.558,-0.31223,0.020961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera Cabriolet,FE991-MT-
12,2,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018688,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02385,0.121,372.03,0.0111,,,,23.9,MPG,23.72,22.54,27.08,,34.396,0.13748,
0.01782,13.129,-0.20224,0.019971,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera Cabriolet,FE991-MT-
12,2,3.4,CPRXV03.8C91,Car,350,6,MA104,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018689,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0029,0.0333,233.98,0.00245,,,,38,MPG,,,,,34.396,0.13748,0.01782,13.129,-
0.20224,0.019971,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera Cabriolet,FE991-PDK-
12,2,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3625,3.44,47.2,1,Not eqipped,CPRX10018696,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0372,0.1199,348.02,0.01,,,,25.5,MPG,24.68,24.46,28.61,,35.43,0.08889,0.0
1846,14.478,-0.30499,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera Cabriolet,FE991-PDK-
12,2,3.4,CPRXV03.8C91,Car,350,6,MA104,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3625,3.44,47.2,1,Not eqipped,CPRX10018697,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0017,0.0123,224.53,0.0092,,,,39.5,MPG,,,,,35.43,0.08889,0.01846,14.478,-
0.30499,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S,FE991S-MT-
12,3,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX10018682,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0219,0.2156,378.45,0.01117,,,,23.5,MPG,22.98,22.07,27.15,,31.473,0.10999
,0.01764,10.566,-0.2323,0.019738,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S,FE991S-MT-
12,3,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3500,3.44,47.2,1,Not eqipped,CPRX10018683,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00188,0.0234,233.34,0.00422,,,,38.2,MPG,,,,,31.473,0.10999,0.01764,10.56
6,-0.2323,0.019738,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S,FE991S-PDK-
12,1,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3625,3.44,47.2,1,Not eqipped,CPRX10017201,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.04376,0.1804,361.03,0.0167,,,,24.6,MPG,23.88,23.72,27.13,,35.43,0.08889,
0.01846,14.523,-0.32417,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S,FE991S-PDK-
12,1,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3625,3.44,47.2,1,Not eqipped,CPRX10017202,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00168,0.01828,234.26,0.0049,,,,38,MPG,,,,,35.43,0.08889,0.01846,14.523,-
0.32417,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S Cabriolet,FE991S-MT-
12,2,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018680,No,21,Federal fuel 2-day exhaust

(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01865,0.1586,379.07,0.01183,,,,23.4,MPG,23.15,22.12,26.68,,34.396,0.1374
8,0.01782,13.489,-0.21889,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S Cabriolet,FE991S-MT-
12,2,3.8,CPRXV03.8C91,Car,400,6,MA103,M,Manual,7,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3625,3.44,47.2,1,Not eqipped,CPRX10018681,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00172,0.02528,238.89,0.00476,,,,37.2,MPG,,,,,34.396,0.13748,0.01782,13.4
89,-0.21889,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S Cabriolet,FE991S-PDK-
12,0,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3750,3.44,47.2,1,Not eqipped,CPRX10017195,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0257,0.10212,372.22,0.0118,,,,23.9,MPG,22.85,22.99,26.72,,35.43,0.08889,
0.01846,14.523,-0.32417,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Carrera S Cabriolet,FE991S-PDK-
12,0,3.8,CPRXV03.8C91,Car,400,6,MA103,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3750,3.44,47.2,1,Not eqipped,CPRX10017197,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00166,0.0109,234.24,0.0053,,,,38,MPG,,,,,35.43,0.08889,0.01846,14.523,-
0.32417,0.021019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo,FE97T-
A1,0,3.8,APRXV03.8TDI,Car,500,6,MA170,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4000,3.44,35.9,1,Not eqipped,APRX10006275,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03628,0.3346,442.64438,0.0317,,,,20,MPG,19.63044,18.82681,23.1141,,41.85
3,0.17709,0.01827,22.189,-0.2746,0.021485,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo,FE97T-
A1,0,3.8,APRXV03.8TDI,Car,500,6,MA170,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4000,3.44,35.9,1,Not eqipped,APRX10006276,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.1914,267.52916,0.0047,,,,33.1,MPG,,,,,41.853,0.17709,0.01827,22.189,-
0.2746,0.021485,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo,FE97T-
A1,1,3.8,APRXV03.8TDI,Car,500,6,MA170,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.44,35.9,1,Not eqipped,APRX10006278,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.03677,0.2791,432.2818,0.0341,,,,20.5,MPG,20.0347,19.3243,23.6243,,41.853
,0.17709,0.01827,22.189,-0.2746,0.021485,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo,FE97T-
A1,1,3.8,APRXV03.8TDI,Car,500,6,MA170,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.44,35.9,1,Not eqipped,APRX10006279,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.02538,267.30796,0.0034,,,,33.2,MPG,,,,,41.853,0.17709,0.01827,22.189,-
0.2746,0.021485,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,0,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.44,28.2,1,Not eqipped,APRX10006287,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00446,0.0274,260.00128,0.0056,,,,34.1,MPG,,,,,41.853,0.17709,0.01827,25.
651,-0.25651,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,0,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.44,28.2,1,Not eqipped,APRX91000357,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.044703,0.3544901,452.514135,0.0182462,,0.011251,,19.6,MPG,18.873898,18.5
1074,22.827477,,41.853,0.17709,0.01827,25.651,-0.25651,0.02108,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,0,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.44,28.2,1,Not eqipped,APRX91000387,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0526262,0.3902805,445.8890839,0.0221191,0.0062795,0.0153828,,19.9,MPG,19

.166788,18.7303334,23.2866023,,41.853,0.17709,0.01827,25.651,-
0.25651,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,0,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.44,28.2,1,Not eqipped,APRX91000389,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0316845,0.0861302,264.164581,0.0115609,0.0035674,0.0111055,,33.6,MPG,,,,
,41.853,0.17709,0.01827,25.651,-0.25651,0.02108,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,1,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,3.44,28.2,1,Not eqipped,APRX10006290,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.06218,0.5028,428.97109,0.0205,,,,20.6,MPG,20.35642,19.33243,23.93914,,41
.853,0.17709,0.01827,25.651,-0.25651,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,911 Turbo S,ECFE97T-
A,1,3.8,APRXV03.8TDI,Car,530,6,MA170S,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,3875,3.44,28.2,1,Not eqipped,APRX10006291,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00661,0.0482,259.4991,0.0054,,,,34.3,MPG,,,,,41.853,0.17709,0.01827,25.6
51,-0.25651,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster,ECFE-981-PDK-
13,0,2.7,DPRXV02.7B81,Car,265,6,MA122,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3375,3.73,51,1,Not eqipped,DPRX10019423,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0289,0.1022,319,0.01824,0.00316,0.00605,,27.9,MPG,25.31,26.89,32.52,,29.
9,0.13748,0.01601,9.285,-0.16389,0.017817,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster,ECFE-981-PDK-
13,0,2.7,DPRXV02.7B81,Car,265,6,MA122,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3375,3.73,51,1,Not eqipped,DPRX10019424,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00282,0.0324,198.07,0.00485,,,,44.9,MPG,,,,,29.9,0.13748,0.01601,9.285,-
0.16389,0.017817,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster,FE-981-M6-
13,0,2.7,DPRXV02.7B81,Car,265,6,MA122,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3375,3.89,47.8,1,Not eqipped,DPRX10019429,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0309,0.14257,343.45,0.01555,0.0055,,,25.9,MPG,24.94,24.48,29.92,,28.101,
0.13748,0.01526,11.802,-0.27388,0.018399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster,FE-981-M6-
13,0,2.7,DPRXV02.7B81,Car,265,6,MA122,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3375,3.89,47.8,1,Not eqipped,DPRX10019430,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0015,0.07624,214.17,0.0191,,,,41.5,MPG,,,,,28.101,0.13748,0.01526,11.802
,-0.27388,0.018399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster S,FE-981S-M6-
13,0,3.4,DPRXV03.4B81,Car,315,6,MA123,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3375,3.89,46.8,1,Not eqipped,DPRX10019444,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02557,0.0818,359.2,0.01276,0.00176,,,24.8,MPG,23.96,23.44,28.45,,28.101,
0.13748,0.01526,11.488,-0.28148,0.018574,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster S,FE-981S-M6-
13,0,3.4,DPRXV03.4B81,Car,315,6,MA123,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3375,3.89,46.8,1,Not eqipped,DPRX10019445,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00045,0.00306,231.21,0.03584,,,,38.5,MPG,,,,,28.101,0.13748,0.01526,11.4
88,-0.28148,0.018574,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster S,FE-981S-PDK-
13,0,3.4,DPRXV03.4B81,Car,315,6,MA123,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3375,3.62,49.5,1,Not eqipped,DPRX10019442,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.02583,0.06022,338.04,0.0116,0.00315,0.0058,,26.3,MPG,25.43,25.01,29.97,,

29.9,0.13748,0.01601,9.037,-0.18705,0.018166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Boxster S,FE-981S-PDK-
13,0,3.4,DPRXV03.4B81,Car,315,6,MA123,AMS,Automated Manual- Selectable (e.g. Automated
Manual with paddles),7,N,R,"2-Wheel Drive, Rear",2,Top gear ration <
1,3375,3.62,49.5,1,Not eqipped,DPRX10019443,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00195,0.00501,212.41,0.00246,,,,41.9,MPG,,,,,29.9,0.13748,0.01601,9.037,
-0.18705,0.018166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
11,0,3.6,BPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,BPRX91000624,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0165579,0.7572604,431.3213694,0.0231676,,0.0041104,,20.5,MPG,13.4606267
,24.1500233,,,43.388,0.12301,0.02795,26.617,-0.2008,0.02981,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
12,0,3.6,CPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,CPRX10015065,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002,0.09658,269.56,0.00403,0.0085,,,32.9,MPG,,,,,43.388,0.12301,0.02795
,30.035,-0.34009,0.03144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
12,0,3.6,CPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,CPRX10015068,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01289,0.09236,411.47,0.01713,0.006,,,21.6,MPG,19.96,20.77,24.89,,43.388,
0.12301,0.02795,30.035,-0.34009,0.03144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
12,0,3.6,CPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,CPRX10015069,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.02551,0.6201,412.65,0.01734,,,,21.5,MPG,14.46,25.09,,,43.388,0.12301,0.
02795,30.035,-0.34009,0.03144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
12,0,3.6,CPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,CPRX10020781,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00425,0.0578,274.8546,0.0049,,0.0016,,32.3,MPG,,,,,43.388,0.12301,0.0279
5,30.035,-0.34009,0.03144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2AT-
12,0,3.6,CPRXT03.6CBD,Truck,300,6,M5502,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top
gear ration < 1,5000,3.7,53.7,1,Not eqipped,CPRX10020783,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0251,0.205,437.1589,0.0126,,0.0041,,20.3,MPG,19.7312,19.2788,23.1128,,43
.388,0.12301,0.02795,30.035,-0.34009,0.03144,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2MT-
11,0,3.6,BPRXT03.6CBD,Truck,300,6,M5502,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.7,36.6,1,Not eqipped,BPRX10010379,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.02109,0.29196,479.96155,0.01972,0,,,18.5,MPG,18.26301,17.4597,21.12142,,
44.287,0.06874,0.02795,28.663,-0.16824,0.02923,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2MT-
11,0,3.6,BPRXT03.6CBD,Truck,300,6,M5502,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.7,36.6,1,Not eqipped,BPRX10010380,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00065,0.13014,297.55238,0.00523,0,,,29.8,MPG,,,,,44.287,0.06874,0.02795,
28.663,-0.16824,0.02923,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne,FE-E2MT-
11,0,3.6,BPRXT03.6CBD,Truck,300,6,M5502,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.7,36.6,1,Not eqipped,BPRX10010381,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.01136,0.80012,432.404,0.02566,0.00401,,,20.5,MPG,13.1378,23.3163,,,44.2
87,0.06874,0.02795,28.663,-0.16824,0.02923,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne GTS,FE-9A2GTS-
13,0,4.8,DPRXT04.8CSD,Truck,420,8,M4852,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear

ration < 1,5250,3.7,52.1,1,Not eqipped,DPRX10019560,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.03253,0.29493,482.29,0.0184,,,,18.4,MPG,17.48,17.62,21.07,,43.388,0.12301,0.02795,23.155,-0.29667,0.03051,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne GTS,FE-9A2GTS-13,0,4.8,DPRXT04.8CSD,Truck,420,8,M4852,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.7,52.1,1,Not eqipped,DPRX10019561,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00368,0.01013,307.84,0.00547,,,,28.9,MPG,,,,,43.388,0.12301,0.02795,23.155,-0.29667,0.03051,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne GTS,FE-9A2GTS-13,0,4.8,DPRXT04.8CSD,Truck,420,8,M4852,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,3.7,52.1,1,Not eqipped,DPRX10019562,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.01817,0.24909,478.23,0.01606,,,,18.6,MPG,11.72,22.28,,,43.388,0.12301,0.02795,23.155,-0.29667,0.03051,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne S,ECFE-E2S-11,1,4.8,BPRXT04.8CSD,Truck,400,8,M4802,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.1,43.9,1,Not eqipped,BPRX10009290,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02535,0.53407,456.4596,0.0149,0.00131,,,19.5,MPG,19.3439,18.33262,22.04814,,43.388,0.12301,0.02795,30.686,-0.41715,0.035815,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne S,ECFE-E2S-11,1,4.8,BPRXT04.8CSD,Truck,400,8,M4802,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.1,43.9,1,Not eqipped,BPRX10009291,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.026,280.68138,0.0051,0.0004,,,31.6,MPG,,,,,43.388,0.12301,0.02795,30.686,-0.41715,0.035815,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne S,ECFE-E2S-11,1,4.8,BPRXT04.8CSD,Truck,400,8,M4802,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.1,43.9,1,Not eqipped,BPRX10009750,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.02604,0.28596,445.1178,0.00803,0.0037,,,20,MPG,12.0532,23.8619,,,43.388,0.12301,0.02795,30.686,-0.41715,0.035815,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne Turbo,ECFE-E2T-11,1,4.8,BPRXT04.8CTD,Truck,500,8,M4852,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,2.92,42,1,Not eqipped,BPRX10009306,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.01892,0.23811,486.11613,0.01436,0.00214,,,18.3,MPG,13.50256,17.35322,21.17758,,52.83,0.12301,0.02795,35.43,-0.41209,0.031849,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Cayenne Turbo,ECFE-E2T-11,1,4.8,BPRXT04.8CTD,Truck,500,8,M4852,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,2.92,42,1,Not eqipped,BPRX10009307,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.02431,296.51336,0.00367,0.00023,,,29.9,MPG,,,,,52.83,0.12301,0.02795,35.43,-0.41209,0.031849,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera,FE970-11,0,3.6,BPRXV03.6PBD,Car,300,6,M4640,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.9,48.7,1,Not eqipped,BPRX10008114,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.02131,0.174,400.01134,0.02126,0.00195,,,22.2,MPG,21.2515,21.2745,25.1682,,39.971,0.27789,0.01753,16.861,-0.1136,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera,FE970-11,0,3.6,BPRXV03.6PBD,Car,300,6,M4640,A,Automatic,7,Y,4,4-Wheel Drive,2,Top gear ration < 1,4500,3.9,48.7,1,Not eqipped,BPRX10008115,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0,0.2204,242.83073,0.0072,0.00023,,,36.5,MPG,,,,,39.971,0.27789,0.01753,16.861,-0.1136,0.02003,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera,FE970-11,1,3.6,BPRXV03.6PBD,Car,300,6,M4640,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.9,48.7,1,Not eqipped,BPRX10008251,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0292,0.302,392.76267,0.0205,0.00217,,,22.6,MPG,21.8967,21.5,25.7502,,38.

87,0.32316,0.0174,15.512,0.09479,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera,FE970-
11,1,3.6,BPRXV03.6PBD,Car,300,6,M4640,A,Automatic,7,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.9,48.7,1,Not eqipped,BPRX10008255,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00165,0.26,237.82242,0.0064,0.0004,,,37.3,MPG,,,,,38.87,0.32316,0.0174,15.512,0.09479,0.01846,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera 4S,FE70SA-
A,0,4.8,APRXV04.8PSD,Car,400,8,M4820,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4500,3.55,44.2,1,Not eqipped,APRX10005613,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0318,0.1418,437.9727,0.0205,,,,20.2,MPG,18.6869,19.2132,24.2305,,40.915,0.23951,0.019308,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera 4S,FE70SA-
A,0,4.8,APRXV04.8PSD,Car,400,8,M4820,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.55,44.2,1,Not eqipped,APRX10005613,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0318,0.1418,437.9727,0.0205,,,,20.2,MPG,18.6869,19.2132,24.2305,,40.915,0.23951,0.019308,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera 4S,FE70SA-
A,0,4.8,APRXV04.8PSD,Car,400,8,M4820,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4500,3.55,44.2,1,Not eqipped,APRX10005614,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00417,0.0546,266.6925,0.00445,,,,33.2,MPG,,,,,40.915,0.23951,0.019308,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera 4S,FE70SA-
A,0,4.8,APRXV04.8PSD,Car,400,8,M4820,A,Automatic,7,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.55,44.2,1,Not eqipped,APRX10005614,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00417,0.0546,266.6925,0.00445,,,,33.2,MPG,,,,,40.915,0.23951,0.019308,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera GTS,FE970GTS-
13,0,4.8,DPRXV04.8PSD,Car,430,8,M4840G,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.55,43.7,1,Not eqipped,DPRX10017381,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0318,0.1418,450.8,0.0205,,,,19.7,MPG,18.6869,19.2132,24.2305,,40.915,0.23951,0.019307,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera GTS,FE970GTS-
13,0,4.8,DPRXV04.8PSD,Car,430,8,M4840G,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.55,43.7,1,Not eqipped,DPRX10017382,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00417,0.0546,270.6,0.00445,,,,32.7,MPG,,,,,40.915,0.23951,0.019307,25.269,-0.11143,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera S Hybrid,FE-970H-
12,0,3,CPRXV03.0PHD,Car,333,6,CGF,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.92,43.6,1,Not eqipped,CPRX10016466,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0148,0.15165,292.07,0.02728,0.0038,,,30.4,MPG,22.03,35.03,28.32,39.52,33.789,0.28654,0.018108,16.254,-0.21672,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera S Hybrid,FE-970H-
12,0,3,CPRXV03.0PHD,Car,333,6,CGF,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,2.92,43.6,1,Not eqipped,CPRX10016467,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.00236,0.0917,216.92,0.0051,0.00294,,,40.9,MPG,,,,,33.789,0.28654,0.018108,16.254,-0.21672,0.021951,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera Turbo,ECFE70TA-
A1,0,4.8,APRXV04.8PTD,Car,500,8,M4870,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.15,38.8,1,Not eqipped,APRX10005627,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0209,0.342,478.3673,0.0202,0.004,0.0046,,18.5,MPG,17.7386,17.4849,21.6932,,45.771,0.24403,0.019971,28.124,-0.03617,0.02166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Porsche,PRX,Porsche,Panamera Turbo,ECFE70TA-

A1,0,4.8,APRXV04.8PTD,Car,500,8,M4870,A,Automatic,7,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.15,38.8,1,Not eqipped,APRX10005628,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00196,0.337,276.5349,0.00322,,,,32,MPG,,,,,45.771,0.24403,0.019971,28.124,-0.03617,0.02166,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Ghost EWB,UX33509,1,6.6,DRRGV06.6N74,Car,563,12,6.6-RR04,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.81,22.3,1,Not eqipped,DRRG10021538,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.00224,0.3125,469.58,0.0146,,0.00192,,18.6,MPG,11.51,23.18,,,55.4,-0.237,0.02589,14.3,-0.036,0.02287,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Ghost EWB,UX33509,1,6.6,DRRGV06.6N74,Car,563,12,6.6-RR04,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.81,22.3,1,Not eqipped,DRRG10021539,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.00434,0.0413,632.66,0.0325,,0.00347,,13.9,MPG,,,,,55.4,-0.237,0.02589,14.3,-0.036,0.02287,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Ghost EWB,UX33509,1,6.6,DRRGV06.6N74,Car,563,12,6.6-RR04,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.81,22.3,1,Not eqipped,DRRG10021540,No,11,Cold CO,25,Cold CO Premium (CERT),FTP,0.12418,0.4182,668.11,0.142,,0.01225,,13.2,MPG,11.85,12.67,16.61,,61.6,-0.264,0.02877,12.8,-0.072,0.02608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Ghost EWB,UX33509,1,6.6,DRRGV06.6N74,Car,563,12,6.6-RR04,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.81,22.3,1,Not eqipped,DRRG10022036,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.02896,0.092,580.73,0.0318,,0.00665,0.01,15.1,MPG,15.49,14.05,18.51,,55.4,-0.237,0.02589,14.3,-0.036,0.02287,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Ghost EWB,UX33509,1,6.6,DRRGV06.6N74,Car,563,12,6.6-RR04,A,Automatic,8,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6000,2.81,22.3,1,Not eqipped,DRRG10022037,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00109,0.1453,333.26,0.0052,,0,0.01,26.4,MPG,,,,,55.4,-0.237,0.02589,14.3,-0.036,0.02287,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Phantom EWB,UX72901,0,6.7,DRRGV06.7LE2,Car,453,12,RR-6.7,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.15,35.1,1,Not eqipped,DRRG10021061,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.13611,4.7599,538.77,0.0066,,0.02916,,16.3,MPG,9.91,19.93,,,60.3,-0.147,0.02955,13,0.168,0.02555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Phantom EWB,UX72901,0,6.7,DRRGV06.7LE2,Car,453,12,RR-6.7,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.15,35.1,1,Not eqipped,DRRG10021062,No,11,Cold CO,25,Cold CO Premium (CERT),FTP,0.50152,2.8348,723.7,0.019,,0.04513,,12.2,MPG,9.98,11.92,15.76,,67,-0.164,0.03284,17.8,-0.31,0.03501,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Phantom EWB,UX72901,0,6.7,DRRGV06.7LE2,Car,453,12,RR-6.7,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.15,35.1,1,Not eqipped,DRRG10021064,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.06962,1.2261,629.51,0.0088,,0.01911,,14.1,MPG,,,,,60.3,-0.147,0.02955,13,0.168,0.02555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Phantom EWB,UX72901,0,6.7,DRRGV06.7LE2,Car,453,12,RR-6.7,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.15,35.1,1,Not eqipped,DRRG10021382,No,31,Federal fuel 3-day exhaust,61,Tier 2 Cert Gasoline,FTP,0.03165,1.1521,639.4,0.0375,,0.00417,0.01,13.9,MPG,13.98,12.93,16.14,,60.3,-0.147,0.02955,13,0.168,0.02555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Rolls-Royce,RRG,Rolls Royce,Phantom EWB,UX72901,0,6.7,DRRGV06.7LE2,Car,453,12,RR-6.7,SA,Semi-Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,6500,3.15,35.1,1,Not eqipped,DRRG10021383,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.00131,0.5061,352.1,0.0106,,0,0.01,25.3,MPG,,,,,60.3,-0.147,0.02955,13,0.168,0.02555,TWC,Three-way catalyst,N,,,N,No averaging

2013,Roush,RII,Roush,Stage 3 Mustang,C113,1,5,DRIIV05.0VD5,Car,565,8,DDZF2A8R510,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.73,31,1,Not eqipped,DRII10019615,No,3,HWFE,61,Tier 2 Cert

Gasoline,HWY,0.00679,0.188,294.4,0.0033,,0.00495,0.01,30.3,MPG,,,,,37.74,0.3872,0.02013
,16.21,0.0114,0.0222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Roush,RII,Roush,Stage 3
Mustang,C113,1,5,DRIIV05.0VD5,Car,565,8,DDZF2A8R510,M,Manual,6,N,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4250,3.73,31,1,Not eqipped,DRII10019698,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.035,0.52,509.8,0.01,,0.009,0.01,17.4,MPG,17.37,16.16,20.01,,37.74,0.3872
,0.02013,16.21,0.0114,0.0222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Roush,RII,Roush,Stage 3
Mustang,C114,0,5,CRIIV05.0VD5,Car,540,8,CZR1A80A00,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4250,3.15,27.3,1,Not eqipped,CRII10017526,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.05,0.75,455,0.016,,,0,19.1,MPG,18.97,18.63,22.12,,43.84,0.1214,0.02334,1
2.2,0.1611,0.02124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Roush,RII,Roush,Stage 3
Mustang,C114,0,5,CRIIV05.0VD5,Car,540,8,CZR1A80A00,A,Automatic,6,Y,R,"2-Wheel Drive,
Rear",2,Top gear ration < 1,4250,3.15,27.3,1,Not eqipped,CRII10017528,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.01382,0.4787,283.2,0.00927,,,0,30.7,MPG,,,,,43.84,0.1214,0.02334,12.2,0.
1611,0.02124,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBE-MP42,2,2,DFJXV02.0AJM,Car,200,4,D2.0CAC,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3125,4.1,33.5,1,Not
eqipped,DFJX10017411,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0225,0.34,281,0.007,0.0001,0.0031,0.01,31.5,MPG,29.4,30.3,35.4,,28.21,0.
3113,0.01689,8.05,0.0318,0.01755,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBE-MP42,2,2,DFJXV02.0AJM,Car,200,4,D2.0CAC,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3125,4.1,33.5,1,Not
eqipped,DFJX10017412,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002,0.1,187,0.003,,0.0007,0.01,47.3,MPG,,,,,28.21,0.3113,0.01689,8.05,0.
0318,0.01755,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBE-MP42,4,2,DFJXV02.0AJM,Car,200,4,D2.0CAC,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3125,4.1,33.5,1,Not
eqipped,DFJX10017415,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0246,0.25,281,0.008,,0.0033,0.01,31.5,MPG,,,,,27,0.2895,0.01739,11.03,-
0.0427,0.01849,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBE-MP42,4,2,DFJXV02.0AJM,Car,200,4,D2.0CAC,SA,Semi-
Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3125,4.1,33.5,1,Not
eqipped,DFJX10017416,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0094,0.2,185,0.005,,0.0024,0.01,47.8,MPG,,,,,27,0.2895,0.01739,11.03,-
0.0427,0.01849,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBF-
MP52,0,2,DFJXV02.0AJM,Car,200,4,D2.0CMC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3125,4.1,44.2,1,Not eqipped,DFJX10017423,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0233,0.42,324,0.02,,0.0035,0.01,27.3,MPG,,,,,29.61,0.3629,0.016,14.72,0.
0742,0.01692,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBF-
MP52,0,2,DFJXV02.0AJM,Car,200,4,D2.0CMC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3125,4.1,44.2,1,Not eqipped,DFJX10017424,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0045,0.34,212,0.005,,0.0017,0.01,41.7,MPG,,,,,29.61,0.3629,0.016,14.72,0
.0742,0.01692,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBF-
MP52,1,2,DFJXV02.0AJM,Car,200,4,D2.0CMC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3125,4.1,44.2,1,Not eqipped,DFJX91001191,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0204998,0.2633983,323.632344,0.0160593,,0.0027378,0.01,27.4,MPG,26.23334
,26.1778159,31.5458107,,28.66,0.3224,0.01669,14.33,0.0645,0.01669,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,BRZ,DBF-

MP52,1,2,DFJXV02.0AJM,Car,200,4,D2.0CMC,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3125,4.1,44.2,1,Not eqipped,DFJX91001193,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0076525,0.2417145,207.2262794,0.0042008,,0.002518,0.01,42.9,MPG,,,,28.66,0.3224,0.01669,14.33,0.0645,0.01669,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,JBF-HS89,0,2.5,9FJXJ02.5PYH,Both,224,,J2.5CAD,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.11,37.4,1,Not eqipped,9FJX01080544,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0272,0.4986,373.0975,0.0178,,,,23.8,MPG,,,,32.53,0.7948,0.020087,15.29,0.0433,0.029338,,,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,JBF-HS89,0,2.5,9FJXJ02.5PYH,Both,224,,J2.5CAD,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,4.11,37.4,1,Not eqipped,9FJX01080545,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.012,0.1266,271.4584,0.0046,,,,32.8,MPG,,,,32.53,0.7948,0.020087,15.29,0.0433,0.029338,,,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBE-DE89,1,2.5,BFJXJ02.5NVD,Both,170,4,L2.5SAB,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,4.44,40.4,1,Not eqipped,BFJX10009706,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0059,0.1,338,0.011,,,,26.4,MPG,,,,34.96,0.4464,0.023731,12.19,0.1657,0.026628,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBE-DE89,1,2.5,BFJXJ02.5NVD,Both,170,4,L2.5SAB,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,4.44,40.4,1,Not eqipped,BFJX10009707,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004,0.03,241,0.003,,,,37,MPG,,,,34.96,0.4464,0.023731,12.19,0.1657,0.026628,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBE-GF89,1,2.5,BFJXJ02.5MXG,Both,170,4,L2.5CAB,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,4.44,40.4,1,Not eqipped,BFJX10009720,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.017,0.38,337,0.024,,,,26.4,MPG,,,,34.96,0.4464,0.023731,9.38,0.1996,0.025967,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBE-GF89,1,2.5,BFJXJ02.5MXG,Both,170,4,L2.5CAB,SA,Semi-Automatic,4,Y,A,All Wheel Drive,2,Top gear ration < 1,3625,4.44,40.4,1,Not eqipped,BFJX10009721,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0033,0.23,240,0.009,,,,37.1,MPG,,,,34.96,0.4464,0.023731,9.38,0.1996,0.025967,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBF-DE69,0,2.5,BFJXJ02.5NVD,Both,170,4,L2.5SMB,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,42,1,Not eqipped,BFJX10009701,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0068,0.06,338,0.015,,,,26.4,MPG,,,,34.06,0.4251,0.024127,10.74,0.4623,0.022967,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBF-DE69,0,2.5,BFJXJ02.5NVD,Both,170,4,L2.5SMB,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,42,1,Not eqipped,BFJX10009702,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0005,0.11,237,0.003,,,,37.6,MPG,,,,34.06,0.4251,0.024127,10.74,0.4623,0.022967,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBF-GF69,0,2.5,BFJXJ02.5MXG,Both,170,4,L2.5CMB,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,42,1,Not eqipped,BFJX10009717,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0082,0.11,338,0.023,,,,26.4,MPG,,,,34.06,0.4251,0.024127,10.02,0.3517,0.02423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,FORESTER AWD,LBF-GF69,0,2.5,BFJXJ02.5MXG,Both,170,4,L2.5CMB,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,42,1,Not eqipped,BFJX10009718,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0049,0.17,237,0.012,,,,37.6,MPG,,,,34.06,0.4251,0.024127,10.02,0.3517,0

.02423,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,1,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016675,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0105,0.22,261,0.014,,0.0031,,34.2,MPG,29.2,35.1,37,,39.77,-
0.0333,0.02273,4.8,0.2336,0.01929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,1,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016676,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0,0.1,180,0.003,,0,,49.6,MPG,,,,,39.77,-
0.0333,0.02273,4.8,0.2336,0.01929,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,2,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016677,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0099,0.33,260,0.016,,0.0025,,34.3,MPG,28.9,35.3,37.2,,40.15,0.0092,0.021
536,4.92,0.2959,0.01796,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,2,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016678,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0,0.15,180,0.002,,0,,49.5,MPG,,,,,40.15,0.0092,0.021536,4.92,0.2959,0.0179
6,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,3,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016679,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0092,0.31,255,0.016,,0.0025,,34.9,MPG,29.5,36.1,37.8,,35.68,0.0185,0.021
816,3.41,0.217,0.01897,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,3,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016680,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0,0.1,177,0.002,,0.0002,,50.4,MPG,,,,,35.68,0.0185,0.021816,3.41,0.217,0.0
1897,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,4,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016681,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0021,0.08,178,0.003,,0.0005,,50.1,MPG,,,,,37.86,0.0158,0.0216,5.64,0.328
,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,4,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016709,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.01,0.33,254,0.015,,0.0027,,35.1,MPG,29.3,36.1,38.8,,37.86,0.0158,0.0216,
5.64,0.328,0.01763,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,5,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016682,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0109,0.24,257,0.015,,0.0032,,34.7,MPG,29.2,35.7,37.8,,39.93,0.0067,0.019
697,4.7,0.2899,0.01624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,5,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016683,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0,0.19,176,0.003,,0.0001,,50.6,MPG,,,,,39.93,0.0067,0.019697,4.7,0.2899,0.
01624,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016684,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0094,0.27,253,0.016,,0.0024,,35.2,MPG,29.3,36.3,39.1,,34.58,0.0194,0.020
046,3.63,0.2965,0.01625,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016685,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0,0.1,172,0.003,,0.0002,,51.9,MPG,,,,,34.58,0.0194,0.020046,3.63,0.2965,0.
01625,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,7,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016686,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0082,0.32,253,0.016,,0.0018,,35.2,MPG,30,36.4,37.5,,37.14,0.0157,0.02008
1,3.39,0.3017,0.0164,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBE-
DK14,7,2,CFJXJ02.5NVD,Both,148,4,C2.0SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016687,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0018,0.1,174,0.003,,0.0006,,51.3,MPG,,,,,37.14,0.0157,0.020081,3.39,0.30
17,0.0164,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,0,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3375,4.11,42.3,1,Not eqipped,CFJX10014015,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014,0.09,198,0.002,,0.0011,,45.1,MPG,,,,,31.14,0.4346,0.019091,9.91,0.2
389,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,0,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3375,4.11,42.3,1,Not eqipped,CFJX10016688,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0133,0.45,286,0.016,,0.0064,,31.1,MPG,29.3,30,35,,31.14,0.4346,0.019091,
9.91,0.2389,0.02008,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,1,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014016,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0108,0.51,287,0.009,,0.0031,,31,MPG,,,,,34.31,0.3571,0.018858,14.51,0.29
8,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,1,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014017,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.025,0.11,198,0.002,,0.0018,,45,MPG,,,,,34.31,0.3571,0.018858,14.51,0.298
,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,2,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014018,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0098,0.3,285,0.01,,0.0023,,31.3,MPG,,,,,30.8,0.3017,0.01986,13.05,0.1405
,0.02025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,2,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014019,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0007,0.08,193,0.001,,0.0028,,46.2,MPG,,,,,30.8,0.3017,0.01986,13.05,0.14
05,0.02025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,3,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014020,No,21,Federal fuel 2-day exhaust

(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0081,0.25,282,0.01,,0.0016,,31.6,MPG,,,,,29.25,0.3389,0.01951,7.75,0.198
7,0.02016,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,3,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10016708,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.11,187,0.001,,0,,47.7,MPG,,,,,29.25,0.3389,0.01951,7.75,0.1987,0.02016
,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,4,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014022,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0104,0.34,286,0.015,,0.0027,,31.2,MPG,,,,,35.27,0.2284,0.019697,14.28,0.
1655,0.01924,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,4,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10016689,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.005,0.08,189,0.001,,0.0012,,47.2,MPG,,,,,35.27,0.2284,0.019697,14.28,0.1
655,0.01924,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,5,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014024,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0099,0.31,280,0.012,,0.0025,,31.8,MPG,,,,,27.25,0.3741,0.018567,6.22,0.3
412,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,5,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10016690,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.14,186,0.001,,0.001,,47.9,MPG,,,,,27.25,0.3741,0.018567,6.22,0.3412,0.
01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX91000907,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0010302,0.0138397,197.5325536,0.0014965,,0.0002983,,45,MPG,,,,,29.25,0.3
389,0.017694,8.77,0.2333,0.01782,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX91000908,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0095448,0.2038268,307.7414021,0.008744,,0.0021253,,28.9,MPG,28.1794336,2
7.5006547,32.6795651,,29.25,0.3389,0.017694,8.77,0.2333,0.01782,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX91000918,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0100365,0.1985126,304.211973,0.0100549,,0.0022438,,29.3,MPG,28.6069281,2
7.8700931,32.8275971,,29.25,0.3389,0.017694,8.77,0.2333,0.01782,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,CBF-
DK64,6,2,CFJXJ02.5NVD,Both,148,4,C2.0SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX91000919,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053501,0.0245799,197.9444796,0.0016363,,0.0011025,,45,MPG,,,,,29.25,0.3
389,0.017694,8.77,0.2333,0.01782,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,LBF-
LX74,4,2.5,BFJXJ02.5PHL,Both,305,4,L2.5CMG,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,3.9,39.8,1,Not eqipped,BFJX91000541,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0360452,0.5181203,432.5364561,0.019763,,0.0142338,,20.5,MPG,20.815502,19
.1970904,23.1661935,,41.03,0.5626,0.019353,18.37,0.3354,0.020031,TWC,Three-way

catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA AWD,LBF-
LX74,4,2.5,BFJXJ02.5PHL,Both,305,4,L2.5CMG,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,3.9,39.8,1,Not eqipped,BFJX91000542,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0347465,0.2805962,283.9865967,0.0067226,,0.0065059,,31.2,MPG,,,,41.03,0
.5626,0.019353,18.37,0.3354,0.020031,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON AWD,LBF-
LW65,0,2.5,BFJXJ02.5PHL,Both,265,4,L2.5CME,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3625,3.9,39.4,1,Not eqipped,BFJX10008703,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0444,0.86,380,0.015,,,,23.4,MPG,,,,42.98,0.3349,0.020331,13.39,0.0766,0
.022499,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON AWD,LBF-
LW65,0,2.5,BFJXJ02.5PHL,Both,265,4,L2.5CME,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3625,3.9,39.4,1,Not eqipped,BFJX10008704,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0175,0.08,260,0.008,,,,34.3,MPG,,,,42.98,0.3349,0.020331,13.39,0.0766,0
.022499,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON AWD,LBF-
LW65,1,2.5,BFJXJ02.5PHL,Both,265,4,L2.5CME,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3625,3.9,39.4,1,Not eqipped,BFJX10008705,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.048,0.9,378,0.016,,,,23.5,MPG,,,,44.35,0.2174,0.020902,16.39,-
0.0299,0.023055,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON AWD,LBF-
LW65,1,2.5,BFJXJ02.5PHL,Both,265,4,L2.5CME,M,Manual,5,N,A,All Wheel Drive,2,Top gear
ration < 1,3625,3.9,39.4,1,Not eqipped,BFJX10008706,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0159,0.07,258,0.007,,,,34.6,MPG,,,,44.35,0.2174,0.020902,16.39,-
0.0299,0.023055,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,0,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016691,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0173,0.27,262,0.021,,0.0046,,34,MPG,28.7,35.3,36.9,,39.77,-
0.0333,0.02273,4.59,0.1871,0.01976,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,0,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016692,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0.0045,0.18,179,0.003,,0.0015,,49.8,MPG,,,,39.77,-
0.0333,0.02273,4.59,0.1871,0.01976,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,1,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016693,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0253,0.42,261,0.018,,0.0073,,34.1,MPG,28.8,35.5,36.4,,40.15,0.0092,0.021
536,8.64,0.2291,0.0182,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,1,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016694,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0037,0.11,181,0.002,,0.001,,49.3,MPG,,,,40.15,0.0092,0.021536,8.64,0.22
91,0.0182,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,2,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016695,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0153,0.32,255,0.017,,0.0042,,34.9,MPG,29.1,36.1,38.1,,35.68,0.0185,0.021
816,13.05,0.1405,0.02025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ15,2,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel

Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016696,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0067,0.15,176,0.004,,0.002,,50.7,MPG,,,,,35.68,0.0185,0.021816,13.05,0.1405,0.02025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,3,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016697,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0174,0.31,254,0.02,,0.0048,,35.1,MPG,29.4,36.3,38.3,,37.68,0.0158,0.0216,6.42,0.2968,0.01781,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,3,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016698,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0074,0.08,178,0.003,,0.0022,,50.1,MPG,,,,,37.68,0.0158,0.0216,6.42,0.2968,0.01781,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,4,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016699,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0163,0.33,260,0.016,,0.0043,,34.3,MPG,28.9,35.7,36.8,,39.93,0.0067,0.019697,8.4,0.2327,0.01638,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,4,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3375,3.7,29.4,1,Not eqipped,CFJX10016700,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0099,0.14,177,0.004,,0,,50.4,MPG,,,,,39.93,0.0067,0.019697,8.4,0.2327,0.01638,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,5,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016701,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0155,0.28,252,0.02,,0.0037,,35.4,MPG,30.2,36.3,38.3,,34.58,0.0194,0.020046,6.22,0.3412,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,5,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3375,3.7,29.5,1,Not eqipped,CFJX10016702,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.007,0.2,171,0.003,,0.0023,,52.1,MPG,,,,,34.58,0.0194,0.020046,6.22,0.3412,0.01775,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,6,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016703,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0164,0.29,253,0.019,,0.0044,,35.2,MPG,29.6,36.9,37.3,,37.14,0.0157,0.020081,6.39,0.2703,0.01643,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ15,6,2,CFJXJ02.5MXG,Both,148,4,C2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3250,3.7,29.5,1,Not eqipped,CFJX10016704,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0097,0.09,174,0.005,,0.0023,,51.3,MPG,,,,,37.14,0.0157,0.020081,6.39,0.2703,0.01643,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,0,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3375,4.11,42.3,1,Not eqipped,CFJX10014090,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0185,0.51,289,0.015,,0.0064,,30.8,MPG,,,,,31.14,0.4346,0.019091,12.38,0.2745,0.01911,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,0,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear

ration < 1,3375,4.11,42.3,1,Not eqipped,CFJX10014091,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0031,0.07,199,0.002,,0.0017,,44.8,MPG,,,,,31.14,0.4346,0.019091,12.38,0.2745,0.01911,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,1,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014093,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0187,0.42,288,0.015,,0.0069,,30.9,MPG,,,,,34.31,0.3571,0.018858,14.29,0.2391,0.01857,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,1,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014094,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039,0.08,198,0.002,,0.0015,,45.1,MPG,,,,,34.31,0.3571,0.018858,14.29,0.2391,0.01857,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,2,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014095,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.016,0.39,285,0.017,,0.006,,31.3,MPG,,,,,30.8,0.3017,0.01986,14.92,0.1795,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,2,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014096,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.02,193,0.002,,0.0012,,46.3,MPG,,,,,30.8,0.3017,0.01986,14.92,0.1795,0.01953,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,3,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014097,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0163,0.4,283,0.015,,0.006,,31.5,MPG,,,,,29.25,0.3389,0.01951,12.16,0.2265,0.01922,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,3,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014119,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0048,0.1,188,0.002,,0.0022,,47.4,MPG,,,,,29.25,0.3389,0.01951,12.16,0.2265,0.01922,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,4,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10014099,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0133,0.37,285,0.016,,0.0047,,31.3,MPG,,,,,35.27,0.2284,0.019697,17.64,0.0457,0.02005,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,4,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.3,1,Not eqipped,CFJX10016705,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023,0.11,189,0.001,,0.0017,,47.2,MPG,,,,,35.27,0.2284,0.019697,17.64,0.0457,0.02005,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,5,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014100,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0151,0.36,281,0.015,,0.0053,,31.7,MPG,,,,,27.25,0.3741,0.018567,10.08,0.2695,0.01803,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-GJ65,5,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10016706,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0045,0.13,185,0.002,,0.0028,,48.2,MPG,,,,,27.25,0.3741,0.018567,10.08,0.2695,0.01803,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-

GJ65,6,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10014102,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0321,0.64,280,0.017,,0.008,,31.8,MPG,,,,,29.25,0.3389,0.017694,13.34,0.2149,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WAGON/OUTBACK SPORT AWD,CBF-
GJ65,6,2,CFJXJ02.5MXG,Both,148,4,C2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.11,42.5,1,Not eqipped,CFJX10016707,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0032,0.08,185,0.002,,0.0016,,48.2,MPG,,,,,29.25,0.3389,0.017694,13.34,0.2149,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WGN/OUTBACK SPT AWD,HBF-
HN75,4,2.5,8FJXB02.5PYH,Both,305,,H2.5CME,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.9,39.8,1,Not eqipped,8FJX01079938,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0377,0.6285,415.3185,0.0175,,,,21.4,MPG,,,,,39.36,0.5952,0.019772,17.73,0.209,0.02227,,,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,IMPREZA WGN/OUTBACK SPT AWD,HBF-
HN75,4,2.5,8FJXB02.5PYH,Both,305,,H2.5CME,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3750,3.9,39.8,1,Not eqipped,8FJX01079939,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0337,0.2211,280.4735,0.0065,,,,31.8,MPG,,,,,39.36,0.5952,0.019772,17.73,0.209,0.02227,,,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
DL14,1,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX91001280,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0070149,0.0723815,289.8171623,0.0137646,,0.0016399,0.01,30.7,MPG,28.6794397,30.0912317,33.8373726,,43.97,0.0338,0.02162,13.26,0.2102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
DL14,1,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX91001281,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009685,0.0252377,195.9637246,0.0031337,,0.0004105,0.01,45.4,MPG,,,,,43.97,0.0338,0.02162,13.26,0.2102,0.01799,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
DL14,3,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10018959,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0005,0.01,193,0.002,,0.0004,0.01,45.9,MPG,,,,,43.12,0.0091,0.02152,12.58,0.2098,0.01766,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
DL14,3,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10019994,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0058,0.05,280,0.014,,0.0011,0.01,31.6,MPG,,,,,43.12,0.0091,0.02152,12.58,0.2098,0.01766,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
GG14,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10019998,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0101,0.1,287,0.013,,0.0032,0.01,30.9,MPG,,,,,43.97,0.0338,0.02162,9.48,0.3625,0.01679,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
GG14,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10019999,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0101,0.06,194,0.003,,0.003,0.01,45.6,MPG,,,,,43.97,0.0338,0.02162,9.48,0.3625,0.01679,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-
GG14,3,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel

Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10020000,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0091,0.08,281,0.013,,0.0026,0.01,31.5,MPG,,,,,43.12,0.0091,0.02152,12.11,0.138,0.01869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-GG14,3,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,3.7,28.9,1,Not eqipped,DFJX10020001,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0102,0.05,193,0.003,,0.003,0.01,45.9,MPG,,,,,43.12,0.0091,0.02152,12.11,0.138,0.01869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-GG74,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,39.3,1,Not eqipped,DFJX10018930,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0131,0.13,331,0.017,,0.0066,0.01,26.8,MPG,,,,,36.42,0.2788,0.0195,15.09,0.2207,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY AWD,DBF-GG74,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3625,4.11,39.3,1,Not eqipped,DFJX10018931,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0125,0.11,218,0.002,,0.005,0.01,40.6,MPG,,,,,36.42,0.2788,0.0195,15.09,0.2207,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY SDN 4WD,KBF-JA94,0,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.08,34.5,1,Not eqipped,AFJX10003035,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0183,0.27,401,0.011,,,,22.1,MPG,,,,,37.52,0.4385,0.017449,12.69,0.271,0.018579,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY SDN 4WD,KBF-JA94,0,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.08,34.5,1,Not eqipped,AFJX10003036,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0.02,257,0.007,,,,34.6,MPG,,,,,37.52,0.4385,0.017449,12.69,0.271,0.018579,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY SDN 4WD,KBF-KB94,0,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.08,34.5,1,Not eqipped,AFJX10002976,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0156,0.29,400,0.014,,,,22.2,MPG,,,,,37.52,0.4385,0.017449,14.25,0.3918,0.015928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,LEGACY SDN 4WD,KBF-KB94,0,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3875,3.08,34.5,1,Not eqipped,AFJX10002977,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003,0.01,258,0.003,,,,34.4,MPG,,,,,37.52,0.4385,0.017449,14.25,0.3918,0.015928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-JA96,2,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,32.8,1,Not eqipped,AFJX10003058,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0225,0.35,408,0.014,,0.0038,0.01,21.8,MPG,20.2,21.2,24.4,,27.16,0.8079,0.017583,2.89,0.4229,0.021503,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-JA96,2,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.08,32.8,1,Not eqipped,AFJX10004223,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0.02,258,0.006,,,,34.5,MPG,,,,,27.16,0.8079,0.017583,2.89,0.4229,0.021503,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-JA96,4,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,3875,3.08,32.8,1,Not eqipped,AFJX10003066,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0248,0.35,396,0.009,,,,22.4,MPG,,,,,27.16,0.8079,0.017583,7.39,0.3162,0.022122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-
JA96,4,3.6,AFJXJ03.6WFJ,Both,256,6,K3.6UAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,3.08,32.8,1,Not eqipped,AFJX10003067,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0001,0.02,260,0.005,,,,34.2,MPG,,,,,27.16,0.8079,0.017583,7.39,0.3162,0.
022122,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-
KB96,1,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,4000,3.08,32.8,1,Not eqipped,AFJX10003002,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0155,0.03,404,0.013,,,,22,MPG,,,,,27.16,0.8079,0.017583,9.36,0.3184,0.02
1966,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-
KB96,1,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,4000,3.08,32.8,1,Not eqipped,AFJX10004221,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0005,0.01,265,0.004,,,,33.5,MPG,,,,,27.16,0.8079,0.017583,9.36,0.3184,0.
021966,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-
KB96,3,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,3.08,32.8,1,Not eqipped,AFJX10003045,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0133,0.28,402,0.011,,,,22.1,MPG,,,,,27.16,0.8079,0.017583,11.22,0.2877,0
.022467,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK AWD,KBE-
KB96,3,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,3875,3.08,32.8,1,Not eqipped,AFJX10003046,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003,0.01,262,0.017,,,,33.9,MPG,,,,,27.16,0.8079,0.017583,11.22,0.2877,0
.022467,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
DL16,3,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.3,1,Not eqipped,DFJX10019985,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0042,0.06,292,0.013,,0.0009,0.01,30.3,MPG,,,,,41.63,0.0019,0.02617,8.63,
0.261,0.02227,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
DL16,3,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.3,1,Not eqipped,DFJX10019986,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0008,0.03,208,0.004,,0.0004,0.01,42.6,MPG,,,,,41.63,0.0019,0.02617,8.63,
0.261,0.02227,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
DL16,5,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.1,1,Not eqipped,DFJX10019988,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0052,0.09,293,0.015,,0.0009,0.01,30.2,MPG,,,,,42.94,-
0.0543,0.0263,12.05,0.2061,0.02254,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
DL16,5,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.1,1,Not eqipped,DFJX10019989,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0.0004,0.03,208,0.003,,0.0002,0.01,42.6,MPG,,,,,42.94,-
0.0543,0.0263,12.05,0.2061,0.02254,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
GG16,3,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.3,1,Not eqipped,DFJX91001278,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.020246,0.1225073,211.5873518,0.007198,,0.0036592,0.01,42,MPG,,,,,41.63,0
.0019,0.02617,8.96,0.1483,0.02319,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
GG16,3,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.3,1,Not eqipped,DFJX91001279,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0145058,0.1094567,297.4264453,0.0189483,,0.004195,0.01,30,MPG,28.2293715
,29.5596882,32.1016467,,41.63,0.0019,0.02617,8.96,0.1483,0.02319,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
GG16,5,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.1,1,Not eqipped,DFJX10018944,No,3,HWFE,61,Tier
2 Cert Gasoline,HWY,0.0093,0.07,208,0.004,,0.0024,0.01,42.6,MPG,,,,,42.94,-
0.0543,0.0263,12.3,0.168,0.02259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBE-
GG16,5,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CCA,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3875,3.9,28.1,1,Not eqipped,DFJX10018945,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0105,0.19,292,0.016,,0.0034,0.01,30.3,MPG,,,,,42.94,-
0.0543,0.0263,12.3,0.168,0.02259,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
DL76,0,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.4,1,Not eqipped,DFJX10019991,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0067,0.14,330,0.012,,0.0013,0.01,26.8,MPG,,,,,35.23,0.3121,0.02338,16.55
,0.2063,0.02305,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
DL76,0,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.4,1,Not eqipped,DFJX10019993,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0055,0.2,227,0.003,,0.0013,0.01,39,MPG,,,,,35.23,0.3121,0.02338,16.55,0.
2063,0.02305,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
DL76,1,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.1,1,Not eqipped,DFJX10019992,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.007,0.1,329,0.01,,0.0013,0.01,26.9,MPG,,,,,36.04,0.1936,0.02435,20.18,-
0.0081,0.02504,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
DL76,1,2.5,DFJXJ02.5NKR,Both,173,4,D2.5SMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.1,1,Not eqipped,DFJX10019995,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0022,0.06,227,0.001,,0.0007,0.01,39,MPG,,,,,36.04,0.1936,0.02435,20.18,-
0.0081,0.02504,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
GG76,0,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.4,1,Not eqipped,DFJX10020002,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0108,0.14,331,0.009,,0.003,0.01,26.8,MPG,,,,,35.23,0.3121,0.02338,16.52,
0.283,0.02206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
GG76,0,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.4,1,Not eqipped,DFJX10020003,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0122,0.1,227,0.001,,0.0042,0.01,39,MPG,,,,,35.23,0.3121,0.02338,16.52,0.
283,0.02206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
GG76,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.1,1,Not eqipped,DFJX10020004,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.016,0.17,330,0.011,,0.0064,0.01,26.8,MPG,,,,,36.04,0.1936,0.02435,18.02,
0.0387,0.02435,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,OUTBACK WAGON AWD,DBF-
GG76,1,2.5,DFJXJ02.5MLP,Both,173,4,D2.5CMA,M,Manual,6,N,A,All Wheel Drive,2,Top gear
ration < 1,3750,4.44,39.1,1,Not eqipped,DFJX10020005,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0124,0.11,226,0.001,,0.0047,0.01,39.2,MPG,,,,,36.04,0.1936,0.02435,18.02
,0.0387,0.02435,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,TRIBECA AWD,KBE-

KD99,3,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,SA,Semi-Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.58,35.6,1,Not eqipped,AFJX10004919,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0467,1.18,442,0.014,,0.0074,0.01,20,MPG,18.3,19.8,22,,44.24,0.6699,0.025449,15.34,0.4716,0.02689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,TRIBECA AWD,KBE-KD99,3,3.6,AFJXJ03.6TGK,Both,256,6,K3.6CAA,SA,Semi-Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.58,35.6,1,Not eqipped,AFJX10004920,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.05,301,0.004,,0,0.01,29.5,MPG,,,,,44.24,0.6699,0.025449,15.34,0.4716,0.02689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-DH39,1,2,DFJXJ02.5NKR,Both,148,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.7,27.7,1,Not eqipped,DFJX10020761,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0079,0.11,275,0.01,,0.0022,0.01,32.2,MPG,,,,,38.22,-0.0156,0.02602,5.31,0.236,0.02189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-DH39,1,2,DFJXJ02.5NKR,Both,148,4,D2.5SCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.7,27.7,1,Not eqipped,DFJX10020762,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004,0.01,192,0.002,,0.0002,0.01,46.1,MPG,,,,,38.22,-0.0156,0.02602,5.31,0.236,0.02189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-DH79,0,2,DFJXJ02.5NKR,Both,148,4,D2.5SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3375,4.44,45.5,1,Not eqipped,DFJX10020763,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.007,0.08,301,0.013,,0.0011,0.01,29.4,MPG,,,,,27.35,0.4568,0.0216,5.48,0.4327,0.02052,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-DH79,0,2,DFJXJ02.5NKR,Both,148,4,D2.5SMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3375,4.44,45.5,1,Not eqipped,DFJX10020764,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.02,213,0.001,,0.0008,0.01,41.6,MPG,,,,,27.35,0.4568,0.0216,5.48,0.4327,0.02052,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-GR39,1,2,DFJXJ02.5MLP,Both,148,4,D2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.7,27.7,1,Not eqipped,DFJX91001341,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0281497,0.2155693,192.8034506,0.0066311,,0.0048008,0.01,46,MPG,,,,,38.22,-0.0156,0.02602,4.71,0.3599,0.02084,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-GR39,1,2,DFJXJ02.5MLP,Both,148,4,D2.0CCA,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3500,3.7,27.7,1,Not eqipped,DFJX91001342,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0197791,0.1956407,280.4135499,0.0179969,,0.0051769,0.01,31.8,MPG,25.9579063,32.8732285,35.2703317,,38.22,-0.0156,0.02602,4.71,0.3599,0.02084,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-GR79,0,2,DFJXJ02.5MLP,Both,148,4,D2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3375,4.44,45.5,1,Not eqipped,DFJX10020767,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0143,0.23,301,0.016,,0.0056,0.01,29.4,MPG,,,,,27.35,0.4568,0.0216,8.94,0.4476,0.02015,TWC,Three-way catalyst,N,,,N,No averaging

2013,Subaru,FJX,SUBARU,XV CROSSTREK AWD,DBF-GR79,0,2,DFJXJ02.5MLP,Both,148,4,D2.0CMA,M,Manual,5,N,A,All Wheel Drive,2,Top gear ration < 1,3375,4.44,45.5,1,Not eqipped,DFJX10020768,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0051,0.06,214,0.001,,0.0026,0.01,41.4,MPG,,,,,27.35,0.4568,0.0216,8.94,0.4476,0.02015,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA,09EDV-2,1,2.393,ASKXT2.395F1,Truck,166,4,J3-24B,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,5.13,43,1,Not eqipped,ASKX01081545,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0191175,0.1258484,365.6643,0.0174484,,,,24.1,MPG,,,,,33.62,0.038,0.02561
,14.273,-0.17387,0.02612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA,09EDV-2,1,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,5.13,43,1,Not
eqipped,ASKX01081546,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.000897,0.0651116,257.4626,0.0043659,,,,34.3,MPG,,,,,33.62,0.038,0.02561,
14.273,-0.17387,0.02612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA,09FEDV-3,1,2.393,ASKXT2.395F1,Truck,166,4,J3-
24M,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,45.5,1,Not
eqipped,ASKX01081685,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0215326,0.2588069,365.2503,0.0214083,,,,24.1,MPG,,,,,31.44,0.094,0.02503
,14.782,-0.21129,0.026428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA,09FEDV-3,1,2.393,ASKXT2.395F1,Truck,166,4,J3-
24M,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3750,3.73,45.5,1,Not
eqipped,ASKX01081686,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0019059,0.0861266,245.9563,0.005093,,,,35.8,MPG,,,,,31.44,0.094,0.02503,
14.782,-0.21129,0.026428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA 4WD,09EDV-2,0,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B4,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,5.13,43,1,Not
eqipped,ASKX01081542,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0065721,0.0469141,424.3441,0.0133659,,,,20.8,MPG,,,,,43.1,0.08,0.02561,
22.857,-0.13499,0.02625,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA 4WD,09EDV-2,0,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B4,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,5.13,43,1,Not
eqipped,ASKX01081543,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009101,0.0635453,273.0272,0.0025189,,,,32.3,MPG,,,,,43.1,0.08,0.02561,2
2.857,-0.13499,0.02625,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA 4WD,09EDV-2,0,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B4,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,5.13,43,1,Not
eqipped,ASKX01081544,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0104103,3.924716,399.5618,0.0069366,,,,21.7,MPG,15.4409,24.579,,,43.1,0
.08,0.02561,22.857,-0.13499,0.02625,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA 4WD,09EDV-2,0,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B4,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,5.13,43,1,Not
eqipped,ASKX01081680,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0261646,0.1666294,376.4594,0.0160285,,0.0019952,,23.4,MPG,21.4497,23.170
1,25.5989,,43.1,0.08,0.02561,22.857,-0.13499,0.02625,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Suzuki,SKX,SUZUKI,GRAND VITARA 4WD,09EDV-2,0,2.393,ASKXT2.395F1,Truck,166,4,J3-
24B4,A,Automatic,4,Y,4,4-Wheel Drive,2,Top gear ration < 1,3875,5.13,43,1,Not
eqipped,ASKX01081682,No,11,Cold CO,24,Cold CO Regular
(CERT),FTP,0.2314954,2.556378,446.161,0.0224085,,,,19.3,MPG,15.9442,19.5811,22.3705,,47
.89,0.089,0.02846,26.345,-0.16943,0.02909,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI AWD,10EDV-
3,0,2.393,ASKXV2.395F1,Car,185,4,S24B4,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3750,5.8,30,1,Not eqipped,ASKX10004364,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0459983,0.3341165,314.8266,0.0123312,,0.0034342,,28.1,MPG,26.4278851,27.
200895,31.5542453,,46.2,-0.2832,0.02439,10.726,0.06174,0.019894,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI AWD,10EDV-
3,0,2.393,ASKXV2.395F1,Car,185,4,S24B4,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3750,5.8,30,1,Not eqipped,ASKX10004365,No,3,HWFE,61,Tier 2
Cert Gasoline,HWY,0.0020227,0.0238245,216.9521,0.0055833,,,,40.8,MPG,,,,,46.2,-
0.2832,0.02439,10.726,0.06174,0.019894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI AWD,10EDV-
3,1,2.393,ASKXV2.395F1,Car,185,4,S24B4,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3750,5.8,30.4,1,Not eqipped,ASKX10004574,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0433708,0.371843,307.894,0.0141378,,,,28.7,MPG,,,,,43.37,-0.2275,0.02345,13.874,0.05966,0.019659,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI AWD,10EDV-3,1,2.393,ASKXV2.395F1,Car,185,4,S24B4,CVT,Continuously Variable,1,Y,A,All Wheel Drive,2,Top gear ration < 1,3750,5.8,30.4,1,Not eqipped,ASKX10004575,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0030518,0.0566135,212.6016,0.008724,,,,41.6,MPG,,,,,43.37,-0.2275,0.02345,13.874,0.05966,0.019659,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10EDV-3,2,2.393,ASKXV2.395F1,Car,185,4,S24B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,30,1,Not eqipped,ASKX10004366,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0392593,0.353332,301.6482,0.0155185,,,,29.3,MPG,,,,,42.95,-0.3212,0.02485,6.907,-0.06962,0.021408,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10EDV-3,2,2.393,ASKXV2.395F1,Car,185,4,S24B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,5.8,30,1,Not eqipped,ASKX10004367,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022582,0.0215993,208.9891,0.0063344,,,,42.4,MPG,,,,,42.95,-0.3212,0.02485,6.907,-0.06962,0.021408,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10FEDV-4,0,2.393,ASKXV2.395F1,Car,185,4,S24M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.1,38.2,1,Not eqipped,ASKX10003806,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0334135,0.4427879,342.119,0.0169219,,,,25.9,MPG,,,,,22.45,0.3007,0.01868,7.376,0.04368,0.019065,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10FEDV-4,0,2.393,ASKXV2.395F1,Car,185,4,S24M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.1,38.2,1,Not eqipped,ASKX10003807,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0008971,0.0480863,214.3292,0.0019409,,,,41.4,MPG,,,,,22.45,0.3007,0.01868,7.376,0.04368,0.019065,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10FEDV-4,1,2.393,ASKXV2.395F1,Car,185,4,S24M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.1,38.9,1,Not eqipped,ASKX10003809,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0294513,0.4523437,330.9802,0.0169697,,,,26.7,MPG,,,,,19.62,0.2463,0.01864,6.244,0.01699,0.019013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,KIZASHI FWD,10FEDV-4,1,2.393,ASKXV2.395F1,Car,185,4,S24M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,4.1,38.9,1,Not eqipped,ASKX10004578,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001979,0.0460931,206.1459,0.0079956,,,,43,MPG,,,,,19.62,0.2463,0.01864,6.244,0.01699,0.019013,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,1,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.8,31.5,1,Not eqipped,ASKX10001843,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.036124,0.1888248,296.8269,0.0130778,,,,29.6,MPG,,,,,41.16,-0.2073,0.0237,0.199,0.1571,0.017793,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,1,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.8,31.5,1,Not eqipped,ASKX10001844,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0045266,0.0274944,211.8351,0.0058807,,,,41.6,MPG,,,,,41.16,-0.2073,0.0237,0.199,0.1571,0.017793,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,2,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,5.8,31.5,1,Not eqipped,ASKX10001845,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0357126,0.2222589,299.3267,0.0133752,,,,29.4,MPG,,,,,40.67,-0.2696,0.0228,-3.235,0.3181,0.014952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,2,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,3250,5.8,31.5,1,Not eqipped,ASKX10001848,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0046197,0.0298375,212.3125,0.0046823,,,,41.6,MPG,,,,,40.67,-0.2696,0.0228,-3.235,0.3181,0.014952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,4,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,5.8,31.7,1,Not eqipped,ASKX10001852,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0034267,0.0312962,195.1687,0.0058006,,,,45.2,MPG,,,,,34.85,-0.3132,0.0223,-31.798,1.0922,0.007457,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10EDV-1,4,1.995,ASKXV1.995F1,Car,150,4,S20B,CVT,Continuously Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,5.8,31.7,1,Not eqipped,ASKX91000131,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0401011,0.2432529,273.1436317,0.0164568,,0.0042156,,32.5,MPG,30.4870567,31.7679607,35.8394137,,34.85,-0.3132,0.0223,-31.798,1.0922,0.007457,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,1,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.1,1,Not eqipped,ASKX10001855,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0311795,0.4026263,313.3318,0.0108682,,,,28.1,MPG,,,,,24.19,0.2776,0.0188,10.304,0.0429,0.019189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,1,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.1,1,Not eqipped,ASKX10001856,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0054808,0.0932248,207.5356,0.0033521,,,,42.3,MPG,,,,,24.19,0.2776,0.0188,10.304,0.0429,0.019189,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,2,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.1,1,Not eqipped,ASKX10001857,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0252921,0.3541891,305.1402,0.0116032,,,,28.8,MPG,,,,,23.11,0.1618,0.0185,7.597,-0.1636,0.019802,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,2,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.1,1,Not eqipped,ASKX10001858,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0057713,0.0853908,197.2209,0.0046531,,,,44.7,MPG,,,,,23.11,0.1618,0.0185,7.597,-0.1636,0.019802,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,4,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.3,1,Not eqipped,ASKX10001861,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0254653,0.3585152,301.937,0.0092518,,,,29.1,MPG,,,,,17.98,0.158,0.0179,3.983,-0.1091,0.018542,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 2WD,10FEDV-2,4,1.995,ASKXV1.995F1,Car,150,4,S20M,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.12,40.3,1,Not eqipped,ASKX10002731,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0038046,0.0709491,189.8768,0.0053529,,,,46.4,MPG,,,,,17.98,0.158,0.0179,3.983,-0.1091,0.018542,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 4WD,10FEDV-2,0,1.995,ASKXV1.995F1,Car,150,4,S20M4,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.12,39.3,1,Not eqipped,ASKX10001853,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0306232,0.361299,312.7982,0.0099989,,,,28.1,MPG,,,,,26.59,0.43,0.0173,11.342,0.1825,0.017843,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 4WD,10FEDV-2,0,1.995,ASKXV1.995F1,Car,150,4,S20M4,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,3250,4.12,39.3,1,Not eqipped,ASKX10001854,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0089779,0.2047936,211.395,0.0041994,,,,41.7,MPG,,,,,26.59,0.43,0.0173,11.342,0.1825,0.017843,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 4WD,11EDV-
1,0,1.995,BSKXV1.995F1,Car,150,4,S20B4,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,5.8,30.9,1,Not eqipped,BSKX91000491,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0093168,0.1375115,214.6839876,0.0081284,,0.0030566,,41.3,MPG,,,,,43.21,-
0.1541,0.0236,0.545,0.29712,0.016635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Suzuki,SKX,SUZUKI,SX4 4WD,11EDV-
1,0,1.995,BSKXV1.995F1,Car,150,4,S20B4,CVT,Continuously Variable,1,Y,A,All Wheel
Drive,2,Top gear ration < 1,3375,5.8,30.9,1,Not eqipped,BSKX91000492,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0476319,0.5583115,306.4802405,0.0164861,,0.0056891,,28.9,MPG,26.4492745,
28.7536636,31.3335549,,43.21,-0.1541,0.0236,0.545,0.29712,0.016635,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,0,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020188,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.0047723,0.0366864,222.8797967,0.0019287,,,,39.2,MPG,,,,,25.778,0.23819,
0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,0,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020194,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1573362,0.6932355,207.6336408,0.0243375,,,,41.9,MPG,25.8566722,55.510831,36.16
09597,,28.643,0.26465,0.018106,3.995,0.04843,0.018845,TWC,Three-way
catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,0,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020232,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.000264,0.0077913,163.9900708,0.0032872,,0.0002306,,53.3,MPG,,,,,25.778,0
.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,0,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX91001380,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0066622,0.0403664,161.0698881,0.0020024,,0.0015036,0.01,55.3,MPG,37.7249
544,77.7680499,43.2418779,87.419049,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,T
hree-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,0,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX91001396,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0080427,0.1239111,249.8110679,0.0027409,,0.0013775,0.01,35.6,MPG,26.133
4873,39.7641071,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way
catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,1,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020189,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1818935,0.9108109,204.0613311,0.0206586,,,,42.7,MPG,26.0937135,56.6294911,37.0
661745,,28.643,0.26465,0.018106,3.995,0.04843,0.018845,TWC,Three-way
catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,1,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020191,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0097234,0.0368807,233.999381,0.0061712,,,,37.8,MPG,26.4431966,42.896426
2,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way
catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,1,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not
eqipped,DTYX10020192,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0010714,0.0049541,163.0416422,0.0043154,,0.0009168,,54.2,MPG,,,,,25.778,
0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.34,H,Harmonic

averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,1,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX10020193,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0050738,0.0282566,229.9453526,0.002203,,,,38.4,MPG,,,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,1,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX10020377,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0060832,0.032725,153.7546886,0.0017847,,0.0012401,,57.4,MPG,38.552742,88.3713427,42.4883623,97.1093366,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,2,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX10020201,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.2276643,1.0782336,207.0008178,0.0329422,,,,42,MPG,25.4280706,53.9171758,37.6708099,,28.643,0.26465,0.018106,3.995,0.04843,0.018845,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,2,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX10020202,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0028456,0.0188898,218.5061744,0.0020327,,,,40.4,MPG,,,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,2,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX91001376,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0067596,0.0162434,159.5902289,0.002054,,0.0015661,0.01,55.6,MPG,37.3538221,80.5419628,44.7253457,85.3576718,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,2,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX91001377,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0101617,0.0282071,233.9752834,0.0038389,,0.0014663,0.01,38,MPG,26.3412971,43.5707074,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 300h,13-AV2H,2,2.494,DTYXV02.5CC4,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.54,24.4,1,Not eqipped,DTYX91001378,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001195,0,161.6669428,0.004176,,0.0002198,0.01,55,MPG,,,,,25.778,0.23819,0.016296,6.009,0.10103,0.01675,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,0,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019093,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0172867,0.2048099,337.2546768,0.0180877,,0.0026304,,25.9,MPG,25.0962607,24.5104897,29.8648936,,30.083,0.04073,0.019881,7.605,-0.00459,0.018752,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,0,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019633,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0027668,0.0207675,205.2658403,0.016403,,0.0010411,,42.7,MPG,,,,,30.083,0.04073,0.019881,7.605,-0.00459,0.018752,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,1,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019099,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0142801,0.1247714,335.6663014,0.0184132,,0.0019751,,26.3,MPG,25.367063,2

4.9369125,30.633767,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,1,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019632,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0028174,0.0225909,200.5143063,0.0211982,,0.0010658,,44,MPG,,,,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,2,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019709,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0023262,0.0192458,199.680422,0.0217173,,0.0010046,,44.2,MPG,,,,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,2,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019714,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0193749,0.1683592,333.8826326,0.0184871,,0.003199,,26.4,MPG,25.4506031,25.1153438,30.3802251,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,3,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019710,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0192006,0.2035336,333.8666163,0.017889,,0.0035994,,26.4,MPG,25.5809788,25.0441606,30.4831856,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,ES 350,13-GV1A,3,3.456,DTYXV03.5BEC,Car,268,6,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.46,28.1,1,Not eqipped,DTYX10019711,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0036091,0.0242938,199.8027067,0.0208411,,0.0013283,,44.2,MPG,,,,,27.714,0.05885,0.019281,9.15,-0.06135,0.019136,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,GS 350,13-GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX10016306,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2962599,0.9389892,419.5398048,0.0273124,,,,21.1,MPG,17.1599112,20.7937795,26.6899518,,42.541,0.21277,0.020279,22.694,-0.08265,0.021446,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350,13-GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX10016327,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0047598,0.0273572,424.4824911,0.0208792,,,,20.9,MPG,,,,,38.287,0.19149,0.018251,21.865,-0.10631,0.01913,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350,13-GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX91001103,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004775,0.0030377,230.6654453,0.0105007,,0.0004885,0.01,38.5,MPG,,,,,38.287,0.19149,0.018251,21.865,-0.10631,0.01913,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350,13-GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX91001104,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0101682,0.1516237,341.4591684,0.0445832,,0.0018735,0.01,26.1,MPG,17.040123,30.7405208,,,38.287,0.19149,0.018251,21.865,-0.10631,0.01913,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350,13-GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX91001105,No,21,Federal fuel 2-day

exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0290759,0.3117198,368.9976797,0.0218594,,0.0043163,0.01,24.1,MPG,22.5149
6,23.2480527,27.4328312,,38.287,0.19149,0.018251,21.865,-0.10631,0.01913,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350,13-
GR3A,0,3.456,DTYXV03.5BEB,Car,306,6,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,4000,3.62,27.9,1,Not eqipped,DTYX91001121,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0188612,0.1143322,366.8325292,0.0201188,,0.0021627,0.01,24.2,MPG,22.8968
227,23.3078765,27.6281813,,38.287,0.19149,0.018251,21.865,-0.10631,0.01913,TWC,Three-
way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,0,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016310,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0059665,0.0182624,252.7376817,0.0110605,,0.0033412,,34.6,MPG,,,,,50.896,
0.33368,0.018589,27.925,0.07509,0.019025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,0,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016311,No,90,US06,23,CARB Phase II
Gasoline,US06,0.0137968,0.2604831,366.189697,0.0322849,,,,23.9,MPG,15.7499668,28.022003
7,,,50.896,0.33368,0.018589,27.925,0.07509,0.019025,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,0,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016325,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0216838,0.1615073,380.1579355,0.0278419,,0.003978,,23,MPG,22.0354534,22.
2287548,25.6070881,,50.896,0.33368,0.018589,27.925,0.07509,0.019025,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,1,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016312,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0041546,0.0173328,244.155431,0.0095929,,0.0014345,,36.3,MPG,,,,,43.214,0
.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,1,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016313,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0136841,0.3121074,362.118264,0.0269352,,,,24.4,MPG,15.9209224,28.778324
4,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,1,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016818,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0263175,0.1328525,376.883887,0.0377073,,0.0054141,,23.5,MPG,22.5156374,2
2.5849421,26.3436806,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,2,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016314,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0148234,0.2564522,365.0995443,0.0186045,,,,24.2,MPG,15.8966928,28.44151
32,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,2,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016319,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013072,0.0116206,243.9634281,0.009023,,0.0007617,,36.3,MPG,,,,,43.214,0
.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR1A,2,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear

ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016820,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0292606,0.1482559,375.1122492,0.0313166,,0.0062102,,23.6,MPG,22.5048595,22.6426642,26.58243,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR1A,3,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016315,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0095175,0.1028921,361.3909655,0.0289246,,,,24.5,MPG,16.0665505,28.8179604,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR1A,3,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016320,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0015495,0.013809,244.7974278,0.0084613,,0.000529,,36.1,MPG,,,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR1A,3,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016819,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0311575,0.1320529,377.3128842,0.031154,,0.0060016,,23.5,MPG,22.5130287,22.4684759,26.5041303,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,0,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016303,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3280878,1.1956122,466.8916243,0.0199495,,,,19,MPG,15.2732232,18.8170758,23.7751334,,56.551,0.37075,0.020654,32.212,0.08797,0.021429,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,0,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016307,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.0180926,0.0551578,454.5307134,0.0192459,,,,19.2,MPG,,,,,50.896,0.33368,0.018589,27.925,0.07509,0.019025,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,1,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016308,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3508449,1.0170139,454.5140022,0.0206798,,,,19.5,MPG,15.5594848,19.3096519,24.7682226,,48.016,0.37803,0.020622,26.419,0.06927,0.021662,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,1,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016324,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0097624,0.0442478,449.577224,0.0087278,,,,19.7,MPG,,,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,2,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016309,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3413626,1.032717,453.6662666,0.0240228,,,,19.5,MPG,15.5658842,19.4732616,24.497066,,48.016,0.37803,0.020622,26.419,0.06927,0.021662,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-GR2A,2,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016316,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0091407,0.0395284,446.5117993,0.0092437,,,,19.8,MPG,,,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-

GR2A,3,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016301,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.3102963,0.9950341,455.8083183,0.0261497,,,,19.5,MPG,15.6326735,19.2264896,24.6354277,,48.016,0.37803,0.020622,26.419,0.06927,0.021662,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 350 AWD,13-
GR2A,3,3.456,DTYXV03.5BEB,Car,306,6,3,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.77,29,1,Not eqipped,DTYX10016318,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0097421,0.0287013,451.8759975,0.0209957,,,,19.6,MPG,,,,,43.214,0.34023,0.01856,23.674,0.08088,0.01906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW1H,0,3.456,DTYXV03.5CC4,Car,286,6,1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017493,No,90,US06,23,CARB Phase II Gasoline,US06,0.0051092,0.0495315,287.556771,0.0056673,,,,30.4,MPG,20.5260237,35.2746576,,,54.216,0.07307,0.018635,31.014,-0.13756,0.017989,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW1H,0,3.456,DTYXV03.5CC4,Car,286,6,1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017494,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.000357,0.0055868,212.0972009,0.0069705,,0.0002344,,41.3,MPG,,,,,54.216,0.07307,0.018635,31.014,-0.13756,0.017989,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW1H,0,3.456,DTYXV03.5CC4,Car,286,6,1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017495,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.0055401,0.0564043,241.393993,0.0042746,,0.0021708,,36.3,MPG,27.0651508,44.1708217,32.0450677,46.7767248,54.216,0.07307,0.018635,31.014,-0.13756,0.017989,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW1H,0,3.456,DTYXV03.5CC4,Car,286,6,1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017500,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.0092041,0.0893642,344.3839083,0.008541,,,,25.4,MPG,,,,,54.216,0.07307,0.018635,31.014,-0.13756,0.017989,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW1H,0,3.456,DTYXV03.5CC4,Car,286,6,1,SCV,Selectable Continuously Variable (e.g. CVT with paddles),1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017502,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.305099,1.1556124,302.4749604,0.0229428,,,,29.3,MPG,19.8800724,30.7845218,29.9562347,,60.24,0.08118,0.020706,35.117,-0.27056,0.021138,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,0,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017457,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0045732,0.0483595,300.30772,0.003991,,,,29.5,MPG,,,,,44.482,0.10309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,0,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017499,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2527726,0.795863,293.76457,0.0266634,,,,30.2,MPG,20.9294252,33.81003,28.7097976,,49.425,0.11454,0.020674,27.051,-0.45453,0.057908,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,0,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX91001217,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0041382,0.0339028,271.9626487,0.0076143,,0.0007811,0.01,32.7,MPG,22.4042666,37.7186541,,,44.482,0.10309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,0,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not

eqipped,DTYX91001218,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.0093727,199.5633167,0.0063946,,0.0001979,0.01,44.5,MPG,,,,,44.482,0.10
309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,0,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX91001219,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0057596,0.0390829,221.4555253,0.0038345,,0.0019683,0.01,40.3,MPG,29.1833
104,50.3330808,34.8099429,54.1318806,44.482,0.10309,0.018606,23.91,-
0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,1,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017451,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0043237,0.0364545,269.6515343,0.0044778,,,,32.8,MPG,21.4771798,38.65903
22,,,44.482,0.10309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,1,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017452,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0033217,0.0248327,295.3992463,0.0059663,,,,30,MPG,,,,,44.482,0.10309,0.
018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,1,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017456,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2618656,0.8552661,292.2064701,0.023465,,,,30.4,MPG,20.9446481,33.0664782,29.96
01924,,49.425,0.11454,0.020674,27.051,-0.45453,0.057908,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,1,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017795,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0050298,0.0492526,218.219106,0.0053436,,0.0014076,,40.6,MPG,29.7874478,5
2.3738281,34.5775295,53.643627,44.482,0.10309,0.018606,23.91,-
0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,1,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017797,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0001276,0.0052551,198.2589483,0.0061223,,0,,44.7,MPG,,,,,44.482,0.10309,
0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,2,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017491,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0026573,0.0256368,279.9434888,0.0055403,,,,31.6,MPG,21.2747138,36.73471
69,,,44.482,0.10309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,2,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017501,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0042008,0.0387865,318.0338112,0.0075496,,,,27.8,MPG,,,,,44.482,0.10309,
0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,2,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017503,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.196558,0.6192698,297.4143893,0.0250143,,,,29.9,MPG,21.1843454,29.7573767,30.68
26422,,49.425,0.11454,0.020674,27.051,-0.45453,0.057908,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,2,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously
Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not
eqipped,DTYX10017796,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.004761,0.0287862,231.3758624,0.0038641,,0.0015967,,38.3,MPG,28.5441824,5
0.3007115,32.1925188,50.0118462,44.482,0.10309,0.018606,23.91,-
0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GS 450h,13-GW2H,2,3.456,DTYXV03.5CC4,Car,286,6,1,CVT,Continuously Variable,1,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.27,18,1,Not eqipped,DTYX10017798,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001719,0.0025365,203.39544,0.0072385,,0.000087,,43.6,MPG,,,,,44.482,0.10309,0.018606,23.91,-0.14222,0.018635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GX 460,10-UJ1A,0,4.608,ATYXT04.6BEX,Truck,301,8,1,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.91,26.5,1,Not eqipped,ATYX10005965,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0161274,0.14736,469.5413422,0.0188077,,0.002949,,18.6,MPG,17.7698972,18.101249,20.6155045,,45.411,0.4641,0.029273,17.192,0.22367,0.029052,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,GX 460,10-UJ1A,0,4.608,ATYXT04.6BEX,Truck,301,8,1,SA,Semi-Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,5500,3.91,26.5,1,Not eqipped,ATYX10005966,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.004897,0.0482744,309.9367967,0.0074797,,0.001,,28.3,MPG,,,,,45.411,0.4641,0.029273,17.192,0.22367,0.029052,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,IS 250 AWD,13-GE3A,0,2.5,DTYXV02.5BEC,Car,204,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.1,33.4,1,Not eqipped,DTYX10021008,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0030454,0.0229152,232.264289,0.0068439,,0.0005758,,38.1,MPG,,,,,38.242,0.28713,0.019968,16.13,0.13709,0.019409,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250 AWD,13-GE3A,0,2.5,DTYXV02.5BEC,Car,204,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.1,33.4,1,Not eqipped,DTYX10021214,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0236462,0.0915361,338.3147456,0.0238245,,0.0026753,,26.1,MPG,23.5149849,25.7673833,29.2585946,,38.242,0.28713,0.019968,16.13,0.13709,0.019409,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250 AWD,13-GE3A,1,2.5,DTYXV02.5BEC,Car,204,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.1,33.4,1,Not eqipped,DTYX10021040,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022038,0.012679,231.8673977,0.0082258,,0.0005059,,38.1,MPG,,,,,38.242,0.28713,0.019968,16.13,0.13709,0.019409,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250 AWD,13-GE3A,1,2.5,DTYXV02.5BEC,Car,204,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,4.1,33.4,1,Not eqipped,DTYX10021381,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0221881,0.0687528,339.6639754,0.0212057,,0.0028647,,25.9,MPG,23.5288333,25.5553929,28.9977112,,38.242,0.28713,0.019968,16.13,0.13709,0.019409,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-GE1A,0,2.5,DTYXV02.5BEC,Car,204,6,2,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,30.3,1,Not eqipped,DTYX10021213,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0193487,0.1208448,327.5932197,0.0149117,,0.0027986,,26.7,MPG,24.5680488,26.0866063,30.212278,,30.965,0.16078,0.019386,13.079,0.01588,0.018717,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-GE1A,0,2.5,DTYXV02.5BEC,Car,204,6,2,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,30.3,1,Not eqipped,DTYX10021215,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0005663,0.0271986,205.7987209,0.0068411,,0.0000127,,42.5,MPG,,,,,30.965,0.16078,0.019386,13.079,0.01588,0.018717,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-GE1A,1,2.5,DTYXV02.5BEC,Car,204,6,2,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.91,30.3,1,Not eqipped,DTYX91001426,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0021554,0.0176084,222.0021102,0.0083692,,0.0007054,0.01,40.1,MPG,,,,,30.965,0.16078,0.019386,13.079,0.01588,0.018717,TWC,Three-way catalyst,N,A,0.5,H,Harmonic

averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE1A,1,2.5,DTYXV02.5BEC,Car,204,6,2,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4250,3.91,30.3,1,Not eqipped,DTYX91001427,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0361908,0.1382846,355.4170052,0.0201521,,0.0038053,0.01,25.1,MPG,23.3357
057,23.294927,31.1172631,,30.965,0.16078,0.019386,13.079,0.01588,0.018717,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE1A,2,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX91001428,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0415816,0.1436527,349.6114232,0.0133381,,0.0049628,0.01,25.4,MPG,22.8840
98,25.0463256,28.7293319,,32.34,0.20075,0.019549,14.725,0.04001,0.019008,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE1A,2,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX91001429,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0027711,0.0159669,225.5290059,0.0097086,,0.0008093,0.01,39.4,MPG,,,,,32.
34,0.20075,0.019549,14.725,0.04001,0.019008,TWC,Three-way catalyst,N,A,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,1,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX10021999,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0338191,0.1378381,323.5528219,0.0182176,,0.0044373,,27.2,MPG,24.9781459,
26.6334409,30.474093,,32.34,0.20075,0.019549,15.687,0.03646,0.019345,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,1,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX10022000,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0020653,0.0097059,210.0130747,0.0093352,,0.0006186,,42,MPG,,,,,32.34,0.2
0075,0.019549,15.687,0.03646,0.019345,TWC,Three-way catalyst,N,A,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,2,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX10021931,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0344035,0.1248162,321.3656084,0.018337,,0.0041994,,27.4,MPG,25.120733,26
.7955517,30.7977485,,29.8,0.20075,0.019549,14.374,0.01027,0.019671,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,2,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.3,1,Not eqipped,DTYX10021932,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.004143,0.0143206,206.515109,0.0109027,,0.0007928,,42.6,MPG,,,,,29.8,0.20
075,0.019549,14.374,0.01027,0.019671,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,3,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.8,1,Not eqipped,DTYX10021927,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0327192,0.135482,318.7756654,0.0182923,,0.0042304,,27.6,MPG,25.414549,27
.042072,31.0096742,,30.254,0.16675,0.019526,12.019,0.02326,0.019031,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,IS 250/IS 250C,13-
GE2A,3,2.5,DTYXV02.5BEC,Car,204,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.91,30.8,1,Not eqipped,DTYX10021928,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025491,0.0147292,204.1655115,0.0144545,,0.0007904,,43.2,MPG,,,,,30.254,
0.16675,0.019526,12.019,0.02326,0.019031,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,IS 350 AWD,13-
GE4A,0,3.456,DTYXV03.5BEB,Car,306,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear

ration < 1,4000,3.77,30.7,1,Not eqipped,DTYX10019756,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0038598,0.0222654,244.8879836,0.0067149,,0.0012449,,36.1,MPG,,,,,40.386,0.32207,0.019747,19.144,0.07299,0.020347,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350 AWD,13-GE4A,0,3.456,DTYXV03.5BEB,Car,306,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.77,30.7,1,Not eqipped,DTYX10019757,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0275679,0.1489662,365.9115909,0.0185846,,0.0042177,,24.1,MPG,22.5866913,23.379727,27.2736769,,40.386,0.32207,0.019747,19.144,0.07299,0.020347,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350 AWD,13-GE4A,1,3.456,DTYXV03.5BEB,Car,306,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.77,30.7,1,Not eqipped,DTYX10019819,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0283936,0.141501,367.8570548,0.0187497,,0.0044491,,24,MPG,22.4740462,23.2576147,27.1036478,,40.386,0.32207,0.019747,19.144,0.07299,0.020347,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350 AWD,13-GE4A,1,3.456,DTYXV03.5BEB,Car,306,6,5,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.77,30.7,1,Not eqipped,DTYX10019820,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039105,0.0185846,245.1603775,0.0088286,,0.0012742,,36.1,MPG,,,,,40.386,0.32207,0.019747,19.144,0.07299,0.020347,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350/IS 350C,13-GE5A,0,3.456,DTYXV03.5BEB,Car,306,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,4.08,31.8,1,Not eqipped,DTYX10020373,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0155783,0.0596874,235.1906137,0.0104391,,0.0032255,,37.6,MPG,,,,,32.32,0.19402,0.01899,11.856,0.00322,0.018956,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350/IS 350C,13-GE5A,0,3.456,DTYXV03.5BEB,Car,306,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,4.08,31.8,1,Not eqipped,DTYX10020375,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0183084,0.0877985,364.4222017,0.0214061,,0.0024649,,24.3,MPG,22.7300012,23.4436685,27.362125,,32.32,0.19402,0.01899,11.856,0.00322,0.018956,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350/IS 350C,13-GE5A,1,3.456,DTYXV03.5BEB,Car,306,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,4.08,31.8,1,Not eqipped,DTYX10020374,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0096159,0.0293147,234.2250862,0.009059,,0.0021932,,37.8,MPG,,,,,32.32,0.19402,0.01899,11.856,0.00322,0.018956,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS 350/IS 350C,13-GE5A,1,3.456,DTYXV03.5BEB,Car,306,6,4,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,4.08,31.8,1,Not eqipped,DTYX10020379,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.026358,0.1063602,363.698665,0.0212639,,0.0038266,,24.3,MPG,22.5998053,23.5686157,27.4443518,,32.32,0.19402,0.01899,11.856,0.00322,0.018956,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS F,08-UE2A,0,4.969,8TYXV05.0BEA,Car,416,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.94,26.7,1,Not eqipped,8TYX09007776,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0,0.0053951,276.6657778,0.0057555,,0.0012852,0.01,31.5,MPG,,,,,42.242,0.38449,0.017436,20.729,0.11299,0.018309,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS F,08-UE2A,0,4.969,8TYXV05.0BEA,Car,416,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,2.94,26.7,1,Not eqipped,8TYX09007797,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II

Gasoline,FTP,0.0131292,0.1129341,460.7216543,0.012925,,0.0029575,0.01,18.9,MPG,18.06552
13,17.8511144,22.2508052,,42.242,0.38449,0.017436,20.729,0.11299,0.018309,,,N,A,0.5,H,H
armonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,IS F,08-
UE2A,1,4.969,8TYXV05.0BEA,Car,416,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4250,2.94,26.7,1,Not eqipped,8TYX01078208,No,25,California fuel 2-day
exhaust (w/can load),23,CARB Phase II
Gasoline,FTP,0.0135435,0.0819062,428.339236,0.0128837,,,,20.4,MPG,,,,,42.242,0.38449,0.
017436,20.729,0.11299,0.018309,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i)
/ WT(i)))

2013,Toyota,TYX,LEXUS,IS F,08-
UE2A,1,4.969,8TYXV05.0BEA,Car,416,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4250,2.94,26.7,1,Not eqipped,8TYX01078209,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.001112,0.00775,267.2296587,0.0063968,,,,32.7,MPG,,,,,42.242,0.38449,0.01
7436,20.729,0.11299,0.018309,,,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Toyota,TYX,LEXUS,LS 460,07-
UF1A,7,4.608,8TYXV04.6BEA,Car,380,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4750,2.94,25.9,1,Not eqipped,8TYX01078170,Yes,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20,MPG,,,,,50.051,0.29395,0.01686,25.971,0.06811,0.017692,,,N,A,0.5
,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 460,07-
UF1A,7,4.608,8TYXV04.6BEA,Car,380,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4750,2.94,25.9,1,Not eqipped,8TYX01078171,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,33.5,MPG,,,,,50.051,0.29395,0.01686,25.971,0.06811,0.017692,,,N,A,0
.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 460,07-
UF1A,8,4.608,8TYXV04.6BEA,Car,380,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4750,2.94,25.9,1,Not eqipped,8TYX01078172,Yes,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,20.3,MPG,,,,,50.051,0.29395,0.01686,25.971,0.06811,0.017692,,,N,A,0
.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 460,07-
UF1A,8,4.608,8TYXV04.6BEA,Car,380,,1,A,Automatic,8,Y,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,4750,2.94,25.9,1,Not eqipped,8TYX01078173,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,33.6,MPG,,,,,50.051,0.29395,0.01686,25.971,0.06811,0.017692,,,N,A,0
.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 460 AWD,09-
UF1A,3,4.608,9TYXV04.6BEA,Car,380,,3,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.13,27.6,1,Not eqipped,9TYX01086277,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0133099,0.1120426,454.7875086,0.0093681,,,,19.5,MPG,,,,,54.077,0.45755,0
.01693,26.328,0.22769,0.017424,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 460 AWD,09-
UF1A,3,4.608,9TYXV04.6BEA,Car,380,,3,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.13,27.6,1,Not eqipped,9TYX01086278,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009035,0.0062702,276.0063619,0.0049908,,,,32.1,MPG,,,,,54.077,0.45755,0
.01693,26.328,0.22769,0.017424,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 460 L AWD,09-
UF1A,1,4.608,9TYXV04.6BEA,Car,380,,3,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.13,26.8,1,Not eqipped,9TYX01086603,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0145645,0.1162405,458.914436,0.0160367,,,,19.3,MPG,18.1088584,18.485673,
22.1369074,,51.292,0.53166,0.016988,27.201,0.26744,0.017453,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 460 L AWD,09-
UF1A,1,4.608,9TYXV04.6BEA,Car,380,,3,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.13,26.8,1,Not eqipped,9TYX01086604,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0010163,0.0049127,277.0484568,0.0038895,,,,32,MPG,,,,,51.292,0.53166,0.0
16988,27.201,0.26744,0.017453,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,0,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not
eqipped,8TYX01075239,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.0037101,0.0167355,397.9446499,0.0089486,,,,22,MPG,,,,,55.176,0.73454,0.
013892,32.029,0.42051,0.013508,,,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i)
/ WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,0,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not
eqipped,8TYX01075978,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,30.3,MPG,,,,,55.176,0.73454,0.013892,32.029,0.42051,0.013508,,,N,A,
0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,0,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not eqipped,8TYX01075979,Yes,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,24.7,MPG,18.38,30.56,23.67,28.64,55.176,0.73454,0.013892,32.029,0.4
2051,0.013508,,,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,1,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,8TYX01075980,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.000679,0.0043914,293.8015854,,,,,30.3,MPG,,,,,55.176,0.73454,0.013892,32
.029,0.42051,0.013508,,,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) /
WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,1,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,8TYX01075980,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.000679,0.0043914,293.8015854,,,,,30.3,MPG,,,,,55.176,0.73454,0.013892,32
.029,0.42051,0.013508,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,1,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,8TYX01075981,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0094254,0.1771158,359.847843,,,,,24.7,MPG,18.38,30.56,23.67,28.64,55.176
,0.73454,0.013892,32.029,0.42051,0.013508,,,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,1,4.969,8TYXV05.0CC4,Car,389,,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,8TYX01075981,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0094254,0.1771158,359.847843,,,,,24.7,MPG,18.38,30.56,23.67,28.64,55.176
,0.73454,0.013892,32.029,0.42051,0.013508,,,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to
n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,3,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not eqipped,ATYX10004889,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2873116,1.9728012,474.7375918,0.009249,,,,18.7,MPG,14.1802584,15.9631784,21.92
09462,,61.307,0.81615,0.015435,36.298,0.32417,0.016463,HCAD,HC-
Adsorber,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,3,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not eqipped,ATYX10004889,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2873116,1.9728012,474.7375918,0.009249,,,,18.7,MPG,14.1802584,15.9631784,21.92
09462,,61.307,0.81615,0.015435,36.298,0.32417,0.016463,TWC,Three-way
catalyst,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-

UF2H,3,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not eqipped,ATYX10006419,No,90,US06,23,CARB Phase II Gasoline,US06,0.009314,0.1079581,403.2814354,0.0122643,,,,21.7,MPG,14.342125,25.4353988,,,55.176,0.73454,0.013892,33.792,0.32535,0.014264,TWC,Three-way catalyst,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,3,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,18.9,1,Not eqipped,ATYX10006419,No,90,US06,23,CARB Phase II Gasoline,US06,0.009314,0.1079581,403.2814354,0.0122643,,,,21.7,MPG,14.342125,25.4353988,,,55.176,0.73454,0.013892,33.792,0.32535,0.014264,HCAD,HC-Adsorber,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10004927,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0117976,0.1498084,404.6156553,0.0180098,,,,21.8,MPG,14.4317035,25.5342206,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,HCAD,HC-Adsorber,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10004927,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0117976,0.1498084,404.6156553,0.0180098,,,,21.8,MPG,14.4317035,25.5342206,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10004927,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0117976,0.1498084,404.6156553,0.0180098,,,,21.8,MPG,14.4317035,25.5342206,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,TWC,Three-way catalyst,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10004927,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0117976,0.1498084,404.6156553,0.0180098,,,,21.8,MPG,14.4317035,25.5342206,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,HCAD,HC-Adsorber,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10006418,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0120551,0.00697,421.8792065,0.0083509,,,,20.9,MPG,,,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,TWC,Three-way catalyst,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10006418,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0120551,0.00697,421.8792065,0.0083509,,,,20.9,MPG,,,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,HCAD,HC-Adsorber,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,ATYX10006418,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0120551,0.00697,421.8792065,0.0083509,,,,20.9,MPG,,,,,55.176,0.73454,0.013892,33.196,0.3689,0.014084,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,08-
UF2H,4,4.969,ATYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not
eqipped,ATYX10006418,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0120551,0.00697,421.8792065,0.0083509,,,,20.9,MPG,,,,,55.176,0.73454,0.
013892,33.196,0.3689,0.014084,HCAD,HC-Adsorber,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LS 600h L,11-
UF1H,1,4.969,BTYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,BTYX10008766,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2591596,1.6228097,444.8623519,0.0026255,,,,19.9,MPG,14.6322948,16.4178593,23.0
268738,,61.307,0.81615,0.015435,35.318,0.39114,0.015993,TWC,Three-way
catalyst,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LS 600h L,11-
UF1H,1,4.969,BTYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,BTYX10008766,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2591596,1.6228097,444.8623519,0.0026255,,,,19.9,MPG,14.6322948,16.4178593,23.0
268738,,61.307,0.81615,0.015435,35.318,0.39114,0.015993,HCAD,HC-Adsorber,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,LS 600h L,11-
UF1H,1,4.969,BTYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,BTYX10008766,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2591596,1.6228097,444.8623519,0.0026255,,,,19.9,MPG,14.6322948,16.4178593,23.0
268738,,61.307,0.81615,0.015435,35.318,0.39114,0.015993,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,LEXUS,LS 600h L,11-
UF1H,1,4.969,BTYXV05.0CC4,Car,389,8,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5500,3.92,19.4,1,Not eqipped,BTYX10008766,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2591596,1.6228097,444.8623519,0.0026255,,,,19.9,MPG,14.6322948,16.4178593,23.0
268738,,61.307,0.81615,0.015435,35.318,0.39114,0.015993,HCAD,HC-
Adsorber,N,A,0.2,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,0,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX10017262,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0062375,0.0384497,365.419759,0.0064798,,0.001815,,24,MPG,,,,,61.929,0.55
874,0.031503,30.403,0.24137,0.03173,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,0,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX10017263,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0149123,0.1559688,569.1408499,0.0103655,,0.0036616,,15.4,MPG,14.4358855,
14.980534,16.9865562,,61.929,0.55874,0.031503,30.403,0.24137,0.03173,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,1,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX91001171,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0206585,0.1409947,591.792142,0.0213023,,0.005189,0.01,15,MPG,14.3836305,
14.4186585,17.0000662,,61.929,0.55874,0.031503,30.403,0.24137,0.03173,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,1,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX91001173,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.009206,0.032723,380.5613673,0.0097847,,0.0027237,0.01,23.4,MPG,,,,,61.92
9,0.55874,0.031503,30.403,0.24137,0.03173,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,1,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear

ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX91001196,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.023847,0.1809866,585.6735009,0.0206217,,0.005788,0.01,15.2,MPG,14.538836
2,14.6338511,16.994889,,61.929,0.55874,0.031503,30.403,0.24137,0.03173,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,LX 570,13-
UJ1A,1,5.663,DTYXT05.7BEX,Truck,383,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6500,3.91,25.8,1,Not eqipped,DTYX91001197,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.008498,0.0447893,376.1819116,0.0086229,,0.0026992,0.01,23.7,MPG,,,,,61.9
29,0.55874,0.031503,30.403,0.24137,0.03173,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350,12-
GL3A,0,3.456,CTYXT03.5BER,Truck,270,6,11,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.4,32.2,1,Not eqipped,CTYX10015235,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.023188,0.1808094,388.3262057,0.013668,,0.0035796,,22.8,MPG,21.8863814,21
.8574887,25.5870217,,37.889,-0.03711,0.029973,14.988,-0.19778,0.029955,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350,12-
GL3A,0,3.456,CTYXT03.5BER,Truck,270,6,11,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.4,32.2,1,Not eqipped,CTYX10015236,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0042419,0.036906,255.1497705,0.023019,,0.001627,,34.7,MPG,,,,,37.889,-
0.03711,0.029973,14.988,-0.19778,0.029955,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350,12-
GL3A,1,3.456,CTYXT03.5BER,Truck,270,6,11,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.4,32.3,1,Not eqipped,CTYX10015332,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0033436,0.031449,254.6989014,0.0216994,,0.0013304,,34.7,MPG,,,,,36.601,-
0.03954,0.029757,14.246,-0.19333,0.029635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350,12-
GL3A,1,3.456,CTYXT03.5BER,Truck,270,6,11,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,4.4,32.3,1,Not eqipped,CTYX10015333,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0213257,0.1555003,385.547168,0.0169395,,0.0032348,,22.9,MPG,21.9311189,2
2.0542817,25.7838305,,36.601,-0.03954,0.029757,14.246,-0.19333,0.029635,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,12-
GL1A,0,3.456,CTYXT03.5BER,Truck,270,6,12,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.4,32.2,1,Not eqipped,CTYX10014945,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.002137,0.0194814,262.5109038,0.0092318,,0.0009174,,33.3,MPG,,,,,43.295,0
.06287,0.028844,16.712,-0.03165,0.027691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,12-
GL1A,0,3.456,CTYXT03.5BER,Truck,270,6,12,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.4,32.2,1,Not eqipped,CTYX10014949,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.0227679,0.2391516,392.003409,0.0113662,,0.0030363,,22.3,MPG,21.1936049,2
1.5047532,25.0083537,,43.295,0.06287,0.028844,16.712,-0.03165,0.027691,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,12-
GL1A,1,3.456,CTYXT03.5BER,Truck,270,6,12,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.4,32.3,1,Not eqipped,CTYX91000977,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0044236,0.0165174,266.0268553,0.0076707,,0.0011228,0.01,33.5,MPG,,,,,42.
104,0.05458,0.02871,16.584,-0.05053,0.027761,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,12-
GL1A,1,3.456,CTYXT03.5BER,Truck,270,6,12,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,4.4,32.3,1,Not eqipped,CTYX91000978,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0280514,0.1953146,406.7382545,0.0101409,,0.0033521,0.01,21.9,MPG,20.5117
735,21.2206546,24.5126175,,42.104,0.05458,0.02871,16.584,-0.05053,0.027761,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,13-
GL1A,0,3.456,DTYXT03.5BER,Truck,270,6,15,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear

ration < 1,4750,3.33,27.4,1,Not eqipped,DTYX91001344,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0226485,0.1934547,384.0578935,0.0152276,,0.0029071,0.01,23.2,MPG,21.8720308,22.4376494,25.9056078,,39.456,0.26886,0.026335,17.002,0.05816,0.026783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 350 AWD,13-GL1A,0,3.456,DTYXT03.5BER,Truck,270,6,15,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.33,27.4,1,Not eqipped,DTYX91001345,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006634,0.0267565,247.2431216,0.0063107,,0.0004895,0.01,36,MPG,,,,,39.456,0.26886,0.026335,17.002,0.05816,0.026783,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h,10-GL2H,0,3.456,ATYXT03.5CC4,Truck,245,6,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000717,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0071792,0.0756516,215.3292345,0.0047725,,,,41.2,MPG,,,,,31.881,0.32896,0.025566,10.572,0.34369,0.022109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h,10-GL2H,0,3.456,ATYXT03.5CC4,Truck,245,6,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000718,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002801,0.0400576,228.5139217,0.0017283,,,,38.7,MPG,,,,,31.881,0.32896,0.025566,10.572,0.34369,0.022109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h,10-GL2H,1,3.456,ATYXT03.5CC4,Truck,245,6,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10001614,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0063347,0.0650449,212.3015037,0.002407,,,,41.7,MPG,,,,,31.881,0.32896,0.025566,10.572,0.34369,0.022109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h,10-GL2H,1,3.456,ATYXT03.5CC4,Truck,245,6,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10001615,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003359,0.0385796,224.3584132,0.0014563,,,,39.5,MPG,,,,,31.881,0.32896,0.025566,10.572,0.34369,0.022109,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-GL3H,0,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.9,1,Not eqipped,ATYX10000255,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.006972,0.0829564,217.1822011,0.0022623,,0.0011132,,40.3,MPG,25.6,65.9,29.4,73.3,38.269,0.20331,0.026381,16.761,0.19647,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-GL3H,0,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.9,1,Not eqipped,ATYX10000268,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0003268,0.0437833,228.1586499,0.0018362,,0.0001,,38.4,MPG,,,,,38.269,0.20331,0.026381,16.761,0.19647,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-GL3H,1,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.9,1,Not eqipped,ATYX91000027,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0130815,0.1227637,240.640399,0.0021954,,0.0025697,0.01,36.9,MPG,23.7008393,55.9346463,30.4301151,55.4479796,38.269,0.20331,0.026381,16.761,0.19647,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-GL3H,1,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.9,1,Not eqipped,ATYX91000028,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0005327,0.0648194,228.9290923,0.0016485,,0.0001031,0.01,38.8,MPG,,,,,38.269,0.20331,0.026381,16.761,0.19647,0.023349,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-
GL3H,2,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000720,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0090079,0.0760614,218.7850873,0.0038421,,,,40.4,MPG,,,,,35.48,0.34676,0.
024559,14.025,0.33508,0.02137,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-
GL3H,2,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000721,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0004197,0.0401099,228.1134174,0.0015439,,,,38.8,MPG,,,,,35.48,0.34676,0.
024559,14.025,0.33508,0.02137,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-
GL3H,3,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000722,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0078424,0.0656114,221.2216137,0.0064276,,,,40,MPG,,,,,35.48,0.34676,0.02
4559,14.025,0.33508,0.02137,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,LEXUS,RX 450h AWD,10-
GL3H,3,3.456,ATYXT03.5CC4,Truck,245,6,2,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,25.1,1,Not eqipped,ATYX10000723,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0003862,0.0239236,228.0741092,0.0017528,,,,38.8,MPG,,,,,35.48,0.34676,0.
024559,14.025,0.33508,0.02137,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,iQ,11-NJ1C,1,1.329,CTYXV01.3BEA,Car,94,4,1,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2375,5.4,33.2,1,Not
eqipped,CTYX10014736,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.2146811,0.8640599,229.2161468,0.015274,,,,38.1,MPG,28.8989336,39.6072634,45.53
20131,,26.347,-0.0842,0.024748,7.976,-0.06851,0.023518,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,SCION,iQ,11-NJ1C,1,1.329,CTYXV01.3BEA,Car,94,4,1,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2375,5.4,33.2,1,Not
eqipped,CTYX10014739,No,90,US06,23,CARB Phase II
Gasoline,US06,0.0116194,1.4630028,238.6598324,0.0072608,,,,36.3,MPG,27.8460966,39.72847
82,,,23.712,-0.07578,0.022273,6.135,-0.04713,0.020946,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,SCION,iQ,11-NJ1C,1,1.329,CTYXV01.3BEA,Car,94,4,1,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2375,5.4,33.2,1,Not
eqipped,CTYX10014740,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.0030716,0.0738304,250.4392063,0.0090359,,,,35,MPG,,,,,23.712,-
0.07578,0.022273,6.135,-0.04713,0.020946,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,iQ,11-NJ1C,1,1.329,CTYXV01.3BEA,Car,94,4,1,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2375,5.4,33.2,1,Not
eqipped,CTYX10015179,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.011156,0.112528,182.1033485,0.0057288,,0.0009027,,48,MPG,42.3490606,48.8
850263,51.1514496,,23.712,-0.07578,0.022273,6.135,-0.04713,0.020946,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,iQ,11-NJ1C,1,1.329,CTYXV01.3BEA,Car,94,4,1,CVT,Continuously
Variable,1,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2375,5.4,33.2,1,Not
eqipped,CTYX10015183,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.000854,0.0373316,148.9271432,0.0011262,,0.0000934,,58.7,MPG,,,,,23.712,-
0.07578,0.022273,6.135,-0.04713,0.020946,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,iQ EV,13-KJ1E,0,0.001,DTYXV00.0DA6,Car,1,,1,A,Automatic,1,N,F,"2-
Wheel Drive, Front",1,No gear ratio < 1,2750,9.45,0,1,Not
eqipped,DTYX10021641,No,81,Charge Depleting
UDDS,62,Electricity,CD,,,,,,,,,MPG,,,,,15.993,0.56499,0.013095,6.029,0.34554,0.015632,,
,N,,,N,No averaging

2013,Toyota,TYX,SCION,iQ EV,13-KJ1E,0,0.001,DTYXV00.0DA6,Car,1,,1,A,Automatic,1,N,F,"2-
Wheel Drive, Front",1,No gear ratio < 1,2750,9.45,0,1,Not
eqipped,DTYX10021646,No,84,Charge Depleting

Highway,62,Electricity,CD,,,,,,,,,MPG,,,,,15.993,0.56499,0.013095,6.029,0.34554,0.01563
2,,,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1A,0,2.494,BTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.1,1,Not
eqipped,BTYX10009338,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0114809,0.0692198,299.1152855,0.0135614,,,,29.6,MPG,27.7612799,28.435927
9,33.7479865,,32.551,0.0298,0.0219,10.046,0.00112,0.021038,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,SCION,tC,11-AT1A,0,2.494,BTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.1,1,Not
eqipped,BTYX10009339,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0016758,0.0081271,201.6995461,0.0030833,,,,43.8,MPG,,,,,32.551,0.0298,0.
0219,10.046,0.00112,0.021038,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,SCION,tC,11-AT1A,1,2.494,BTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.9,1,Not
eqipped,BTYX91000590,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.011117,0.0572723,317.6985239,0.0187144,,0.0019959,0.01,27.9,MPG,26.04999
06,27.0114934,31.77986,,32.773,0.02521,0.021824,9.518,0.00727,0.020963,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,SCION,tC,11-AT1A,1,2.494,BTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.9,1,Not
eqipped,BTYX91000591,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0031112,0.012557,207.8853038,0.0114069,,0.0008912,0.01,42.7,MPG,,,,,32.7
73,0.02521,0.021824,9.518,0.00727,0.020963,TWC,Three-way catalyst,N,A,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,SCION,tC,11-AT1A,3,2.494,CTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.6,1,Not
eqipped,CTYX10012187,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.0103677,0.0868696,295.7714776,0.0153139,,0.0024,,29.6,MPG,28.1975552,28.
3507413,33.5652948,,33.355,0.01179,0.022033,8.279,-0.03921,0.021591,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1A,3,2.494,CTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.6,1,Not
eqipped,CTYX10012188,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.002549,0.015593,198.9964448,0.0063343,,,,44,MPG,,,,,33.355,0.01179,0.022
033,8.279,-0.03921,0.021591,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1A,3,2.494,CTYXV02.5BEB,Car,180,4,2,A,Automatic,6,Y,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3500,3.82,31.6,1,Not
eqipped,CTYX10012192,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0029834,0.0180473,202.3365627,0.012878,,0.0011,,43.4,MPG,,,,,33.355,0.01
179,0.022033,8.279,-0.03921,0.021591,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,0,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,39.8,1,Not
eqipped,BTYX10009492,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0200474,0.1766325,306.0776414,0.0142818,,,,28.9,MPG,29.2378439,27.044615
,32.6251126,,26.342,0.28661,0.019217,10.379,0.05632,0.020317,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,0,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,39.8,1,Not
eqipped,BTYX10009493,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0024905,0.0172498,205.5143076,0.0128848,,,,42.9,MPG,,,,,26.342,0.28661,0
.019217,10.379,0.05632,0.020317,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,0,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-
Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,39.8,1,Not
eqipped,BTYX10009494,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0199028,0.1959126,306.1330849,0.0160314,,,,28.9,MPG,29.0275788,27.044562
6,32.8719857,,26.342,0.28661,0.019217,10.379,0.05632,0.020317,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,1,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,40.8,1,Not eqipped,BTYX10009342,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0214992,0.1478135,310.9761586,0.0198194,,,,28.4,MPG,28.4965429,26.6372112,32.3924399,,25.944,0.29638,0.018914,9.502,0.07614,0.019869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,1,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,40.8,1,Not eqipped,BTYX10009343,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012189,0.0076753,204.8044856,0.0059215,,,,43.1,MPG,,,,,25.944,0.29638,0.018914,9.502,0.07614,0.019869,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,2,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,40.5,1,Not eqipped,BTYX10009593,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.020543,0.1737008,308.3102041,0.0167033,,,,28.7,MPG,29.1354896,26.7986652,32.5118198,,27.502,0.2746,0.019234,7.153,0.04879,0.020334,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,SCION,tC,11-AT1M,2,2.494,BTYXV02.5BEB,Car,180,4,1,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.06,40.5,1,Not eqipped,BTYX10009594,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0022008,0.0194646,205.1862359,0.015272,,,,43.1,MPG,,,,,27.502,0.2746,0.019234,7.153,0.04879,0.020334,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 2WD,13-GN5A,0,3.956,DTYXT04.0BES,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10020314,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0174071,0.1209944,419.5139867,0.0185602,,0.0031127,,21,MPG,20.1760019,20.5542378,22.8365047,,33.015,0.38142,0.030927,10.413,0.18237,0.030886,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 2WD,13-GN5A,0,3.956,DTYXT04.0BES,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10020318,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0027139,0.0254492,287.6307144,0.0081385,,0.0009697,,30.7,MPG,,,,,33.015,0.38142,0.030927,10.413,0.18237,0.030886,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 2WD,13-GN5A,1,3.956,DTYXT04.0BES,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.73,29.3,1,Not eqipped,DTYX10020312,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0017949,0.0164346,284.1626387,0.0047109,,0.0006935,,31.1,MPG,,,,,28.989,0.39814,0.030409,6.735,0.1699,0.030828,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 2WD,13-GN5A,1,3.956,DTYXT04.0BES,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4750,3.73,29.3,1,Not eqipped,DTYX10020578,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0145136,0.115477,410.3566328,0.0168071,,0.0020748,,21.5,MPG,20.6491331,20.9936208,23.4434717,,28.989,0.39814,0.030409,6.735,0.1699,0.030828,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020319,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0034155,0.0168147,298.4722884,0.0081526,,0.0010948,,29.3,MPG,,,,,35.742,0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020319,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0034155,0.0168147,298.4722884,0.0081526,,0.0010948,,29.3,MPG,,,,,35.742,0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020324,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0026717,0.0317408,301.1149173,0.0051073,,0.0010169,,29.1,MPG,,,,,35.742,

0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020324,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0026717,0.0317408,301.1149173,0.0051073,,0.0010169,,29.1,MPG,,,,,35.742,
0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020576,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0138325,0.1100896,427.9323209,0.018869,,0.0025846,,20.4,MPG,19.5258975,2
0.0132922,22.0272394,,35.742,0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,0,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.73,29.3,1,Not eqipped,DTYX10020576,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0138325,0.1100896,427.9323209,0.018869,,0.0025846,,20.4,MPG,19.5258975,2
0.0132922,22.0272394,,35.742,0.51931,0.030566,11.647,0.25982,0.031032,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,2,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.73,29.2,1,Not eqipped,DTYX10020309,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0032503,0.0350458,297.6840424,0.005338,,0.000988,,29.7,MPG,,,,,38.197,0.
4006,0.031515,11.874,0.10497,0.032661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,2,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5000,3.73,29.2,1,Not eqipped,DTYX10020309,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0032503,0.0350458,297.6840424,0.005338,,0.000988,,29.7,MPG,,,,,38.197,0.
4006,0.031515,11.874,0.10497,0.032661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,2,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5000,3.73,29.2,1,Not eqipped,DTYX10020579,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0161655,0.1164458,423.9784539,0.0186231,,0.0025987,,20.8,MPG,19.7739137,
20.4118057,22.6007627,,38.197,0.4006,0.031515,11.874,0.10497,0.032661,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,4RUNNER 4WD,13-
GN3A,2,3.956,DTYXT04.0BES,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,5000,3.73,29.2,1,Not eqipped,DTYX10020579,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0161655,0.1164458,423.9784539,0.0186231,,0.0025987,,20.8,MPG,19.7739137,
20.4118057,22.6007627,,38.197,0.4006,0.031515,11.874,0.10497,0.032661,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV1A,0,2.494,CTYXV02.5BED,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.5,1,Not eqipped,CTYX10013256,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0037253,0.0039881,186.9175648,0.0039598,,0.002,,46.9,MPG,,,,,31.119,0.04
163,0.019822,11.471,-0.01472,0.019211,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV1A,0,2.494,CTYXV02.5BED,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.5,1,Not eqipped,CTYX10013257,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0170297,0.1167393,281.9582435,0.0171169,,0.0039887,,31.1,MPG,29.1417509,
30.0433139,35.3713018,,31.119,0.04163,0.019822,11.471,-0.01472,0.019211,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV1A,1,2.494,CTYXV02.5BED,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.4,1,Not eqipped,CTYX10013258,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert

Gasoline,FTP,0.0182562,0.1254823,276.8714861,0.0140747,,0.0043169,,32,MPG,30.0189618,30
.8659272,36.3029571,,27.232,0.04319,0.019374,8.367,0.01081,0.018542,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV1A,1,2.494,CTYXV02.5BED,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.4,1,Not eqipped,CTYX10013260,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0028647,0.0050727,177.1747948,0.005911,,,,50,MPG,,,,,27.232,0.04319,0.01
9374,8.367,0.01081,0.018542,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV3A,0,2.494,CTYXV02.5HE2,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.5,1,Not eqipped,CTYX10013455,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0060507,0.0310014,286.2286227,0.019978,,0.002,,30.7,MPG,29.2240464,29.34
02904,34.8061162,,31.119,0.04163,0.019822,9.956,0.06149,0.018222,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV3A,0,2.494,CTYXV02.5HE2,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.5,1,Not eqipped,CTYX10013456,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0020171,0.006547,184.175765,0.0067249,,0.0008,,47.7,MPG,,,,,31.119,0.041
63,0.019822,9.956,0.06149,0.018222,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV3A,2,2.494,CTYXV02.5HE2,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.4,1,Not eqipped,CTYX10013266,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002292,0.0064397,180.7329206,0.0042352,,,,48.9,MPG,,,,,28.7,0.04279,0.01
9903,9.302,0.06572,0.01821,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
AV3A,2,2.494,CTYXV02.5HE2,Car,178,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.63,29.4,1,Not eqipped,CTYX10013267,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0074722,0.0490889,284.7889076,0.0132853,,,,31.1,MPG,29.5154704,29.723528
2,35.6999877,,28.7,0.04279,0.019903,9.302,0.06572,0.01821,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
GV1A,1,3.456,CTYXV03.5BEC,Car,268,6,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,3.46,28.1,1,Not eqipped,CTYX10012599,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0191615,0.1820121,326.8024888,0.0221176,,,,27.1,MPG,26.7991428,25.384818
,31.1938696,,26.807,0.10836,0.019269,9.927,0.02431,0.018972,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,CAMRY,12-
GV1A,1,3.456,CTYXV03.5BEC,Car,268,6,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,3.46,28.1,1,Not eqipped,CTYX10013265,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.000745,0.0053375,204.7727128,0.0102188,,,,43.2,MPG,,,,,26.807,0.10836,0.
019269,9.927,0.02431,0.018972,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,Camry Hybrid LE,12-
AV1H,4,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.54,24.2,1,Not
eqipped,CTYX10014942,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003952,0.0085259,156.5325481,0.0043778,,0.000325,,56.3,MPG,,,,,24.96,0.
30188,0.014591,6.506,0.16997,0.014946,TWC,Three-way catalyst,N,A,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid LE,12-
AV1H,4,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.54,24.2,1,Not eqipped,CTYX10014950,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0050332,0.029118,150.1595141,0.0058828,,0.0013388,,58.9,MPG,38.9240978,8
7.5585233,45.35734,96.1194456,24.96,0.30188,0.014591,6.506,0.16997,0.014946,TWC,Three-
way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid LE,12-
AV1H,5,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,

Front",2,Top gear ration < 1,3750,3.54,24.2,1,Not eqipped,CTYX10014943,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0059564,0.0226249,152.4829095,0.0086482,,0.0015131,,58.2,MPG,37.2897743,89.3265023,45.1207839,94.0763725,24.96,0.30188,0.014591,6.506,0.16997,0.014946,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid LE,12-AV1H,5,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.54,24.2,1,Not eqipped,CTYX10014944,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0005533,0.0026988,157.5352583,0.0046458,,0.0004946,,56,MPG,,,,,24.96,0.30188,0.014591,6.506,0.16997,0.014946,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,0,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX10014939,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0059305,0.0353226,157.2902683,0.0055693,,0.0017083,,55.7,MPG,37.846429,83.351892,43.7620916,82.5656935,26.864,0.33176,0.014649,10.08,0.14758,0.015487,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,0,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX10014940,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0003738,0.0058955,160.9587876,0.0036806,,0.0002269,,54.4,MPG,,,,,26.864,0.33176,0.014649,10.08,0.14758,0.015487,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,1,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX91001044,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0005294,0.0003685,163.1150243,0.0050659,,0.0003148,0.01,54.6,MPG,,,,,26.864,0.33176,0.014649,10.08,0.14758,0.015487,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,1,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX91001059,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0088815,0.0487502,163.5234072,0.0024806,,0.0020704,0.01,54.3,MPG,35.566863,84.2019089,41.4775342,89.8749786,26.864,0.33176,0.014649,10.08,0.14758,0.015487,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,2,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX91001066,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0004592,0.002793,160.5298184,0.0055956,,0.0004493,0.01,55.3,MPG,,,,,25.495,0.30377,0.014585,7.12,0.14251,0.015429,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,2,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX91001067,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0092681,0.0704804,161.7857551,0.0053394,,0.0019037,0.01,54.9,MPG,35.8113639,77.1235271,44.8995933,87.0862859,25.495,0.30377,0.014585,7.12,0.14251,0.015429,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-AV1H,3,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX10015868,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0003055,0.0033835,157.5538163,0.0049313,,0.0002011,,56,MPG,,,,,25.495,0.30377,0.014585,7.12,0.14251,0.015429,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,Camry Hybrid XLE,12-
AV1H,3,2.494,CTYXV02.5HC3,Car,154,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.54,24.2,1,Not eqipped,CTYX10015869,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0059442,0.0320359,153.2413782,0.0049938,,0.0017175,,57.8,MPG,37.9606353,
87.6444043,45.863881,89.4146494,25.495,0.30377,0.014585,7.12,0.14251,0.015429,TWC,Three
-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE1M,0,1.798,BTYXV01.8BEA,Car,132,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3000,4.31,43.7,1,Not eqipped,BTYX10010780,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0026391,0.0670852,177.5084434,0.0040738,,,,49.7,MPG,,,,,22.116,0.18855,0
.018134,9.547,-0.02329,0.018961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE1M,0,1.798,BTYXV01.8BEA,Car,132,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3000,4.31,43.7,1,Not eqipped,BTYX10011075,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0100019,0.1381777,246.6609508,0.018243,,,,35.8,MPG,35.8727973,34.2013296
,39.3645353,,22.116,0.18855,0.018134,9.547,-0.02329,0.018961,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE1M,3,1.798,CTYXV01.8BEA,Car,132,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3125,4.31,43.7,1,Not eqipped,CTYX10016122,Yes,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,34.6,MPG,,,,,24.395,0.2151,0.018332,9.547,-
0.02329,0.018961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE1M,3,1.798,CTYXV01.8BEA,Car,132,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3125,4.31,43.7,1,Not eqipped,CTYX10016123,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,47.7,MPG,,,,,24.395,0.2151,0.018332,9.547,-
0.02329,0.018961,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE2A,0,1.798,BTYXV01.8BEA,Car,132,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.13,40.5,1,Not eqipped,BTYX10010784,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014842,0.0305811,181.9083071,0.0066154,,,,48.6,MPG,,,,,28.383,-
0.04619,0.020177,9.633,-0.03715,0.019397,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE2A,0,1.798,BTYXV01.8BEA,Car,132,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.13,40.5,1,Not eqipped,BTYX10011038,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0142395,0.1120568,264.3112925,0.012333,,,,33.5,MPG,33.2113264,32.2060695
,36.4515966,,28.383,-0.04619,0.020177,9.633,-0.03715,0.019397,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE2A,0,1.798,BTYXV01.8BEA,Car,132,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.13,40.5,1,Not eqipped,BTYX10020854,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,,33.2,MPG,,,,,28.383,-
0.04619,0.020177,9.633,-0.03715,0.019397,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA,11-
ZE2A,0,1.798,BTYXV01.8BEA,Car,132,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3125,4.13,40.5,1,Not eqipped,BTYX10020855,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,47.5,MPG,,,,,28.383,-0.04619,0.020177,9.633,-
0.03715,0.019397,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1A,1,2.362,9TYXV02.4BEB,Car,158,,9,A,Automatic,4,Y,A,All Wheel Drive,1,No gear ratio
< 1,3625,2.81,40.1,1,Not eqipped,9TYX01079669,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0181194,0.1472164,345.9091036,0.0137114,,,,25.5,MPG,,,,,40.805,0.14718,0
.022639,17.118,0.0693,0.022144,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1A,1,2.362,9TYXV02.4BEB,Car,158,,9,A,Automatic,4,Y,A,All Wheel Drive,1,No gear ratio

< 1,3625,2.81,40.1,1,Not eqipped,9TYX01079670,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012146,0.00637,244.2519904,0.0168039,,,,36.2,MPG,,,,,40.805,0.14718,0.0
22639,17.118,0.0693,0.022144,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1A,3,2.362,CTYXV02.4BEB,Car,158,4,9,A,Automatic,4,Y,A,All Wheel Drive,1,No gear ratio
< 1,3625,2.81,40.2,1,Not eqipped,CTYX10015792,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0011964,0.0010862,243.4832514,0.007562,,0.0006064,,36,MPG,,,,,41.031,0.1
4573,0.023419,16.287,0.05042,0.023047,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1A,3,2.362,CTYXV02.4BEB,Car,158,4,9,A,Automatic,4,Y,A,All Wheel Drive,1,No gear ratio
< 1,3625,2.81,40.2,1,Not eqipped,CTYX10015794,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0174383,0.1139868,343.0298481,0.008701,,0.0037584,,25.5,MPG,24.1251703,2
4.9515375,27.8920779,,41.031,0.14573,0.023419,16.287,0.05042,0.023047,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1M,1,2.362,9TYXV02.4BEB,Car,158,,7,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3500,4.24,43.4,1,Not eqipped,9TYX01079699,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0226953,0.226743,322.5891446,0.0246035,,,,27.3,MPG,,,,,27.94,0.2465,0.02
123,13.632,-0.06634,0.023069,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1M,1,2.362,9TYXV02.4BEB,Car,158,,7,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3500,4.24,43.4,1,Not eqipped,9TYX01079700,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0010008,0.0057684,224.8214831,0.0158182,,,,39.3,MPG,,,,,27.94,0.2465,0.0
2123,13.632,-0.06634,0.023069,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1M,2,2.362,9TYXV02.4BEB,Car,158,,7,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3500,4.24,43.5,1,Not eqipped,9TYX01079705,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0244306,0.2183163,329.0799844,0.0171766,,,,26.8,MPG,,,,,28.064,0.25373,0
.021754,12.236,0.01009,0.022842,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE1M,2,2.362,9TYXV02.4BEB,Car,158,,7,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3500,4.24,43.5,1,Not eqipped,9TYX01079706,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012318,0.0061534,230.9578395,0.0103636,,,,38.3,MPG,,,,,28.064,0.25373,0
.021754,12.236,0.01009,0.022842,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,1,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.39,33.3,1,Not eqipped,9TYX01079634,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0183565,0.1650201,323.3760402,0.0174418,,,,27.3,MPG,,,,,35.666,-
0.05104,0.024123,15.142,-0.20407,0.024652,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,1,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.39,33.3,1,Not eqipped,9TYX01079635,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0019604,0.0082544,218.7571984,0.0040448,,,,40.4,MPG,,,,,35.666,-
0.05104,0.024123,15.142,-0.20407,0.024652,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,2,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.39,33.5,1,Not eqipped,9TYX01079672,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0169553,0.1449304,329.5475358,0.012822,,,,26.8,MPG,,,,,36.021,-
0.04814,0.024658,13.393,-0.19127,0.02492,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,2,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.39,33.5,1,Not eqipped,9TYX01079673,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.001496,0.0063969,220.129401,0.0066366,,,,40.2,MPG,,,,,36.021,-
0.04814,0.024658,13.393,-0.19127,0.02492,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,3,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,32.1,1,Not eqipped,9TYX01079707,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0164078,0.1526748,330.7275903,0.0115321,,,,26.7,MPG,,,,,38.906,-
0.05172,0.024606,16.986,-0.33862,0.026427,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,09-
AE2A,3,2.362,9TYXV02.4BEB,Car,158,,8,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,32.1,1,Not eqipped,9TYX01079708,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014805,0.0061912,222.6726734,0.0040232,,,,39.6,MPG,,,,,38.906,-
0.05172,0.024606,16.986,-0.33862,0.026427,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1A,0,1.798,BTYXV01.8BEA,Car,132,4,8,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.24,41.7,1,Not eqipped,BTYX10010822,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0023932,0.0647184,202.8713521,0.00592,,0.0007,,43.2,MPG,,,,,33.029,-
0.03433,0.023937,8.228,0.05722,0.022243,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1A,0,1.798,BTYXV01.8BEA,Car,132,4,8,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.24,41.7,1,Not eqipped,BTYX10010823,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.0137816,0.1596272,277.4028411,0.0164195,,0.0015,,31.7,MPG,30.2540011,31.
0088904,34.0074099,,33.029,-0.03433,0.023937,8.228,0.05722,0.022243,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1A,1,1.798,BTYXV01.8BEA,Car,132,4,8,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.24,41.5,1,Not eqipped,BTYX10010826,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.002564,0.0524981,198.6102433,0.0054441,,,,44.4,MPG,,,,,33.005,-
0.04138,0.023518,10.471,0.0565,0.02194,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1A,1,1.798,BTYXV01.8BEA,Car,132,4,8,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,4.24,41.5,1,Not eqipped,BTYX10011037,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0161764,0.1209082,276.7458781,0.0147175,,,,32,MPG,30.9970042,31.187698,3
4.4592501,,33.005,-0.04138,0.023518,10.471,0.0565,0.02194,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1M,1,1.798,BTYXV01.8BEA,Car,132,4,6,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.31,43.7,1,Not eqipped,BTYX10010782,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0021926,0.0826984,193.4628094,0.0050505,,,,45.8,MPG,,,,,26.115,0.19564,0
.021428,13.056,0.03914,0.021428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1M,1,1.798,BTYXV01.8BEA,Car,132,4,6,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.31,43.7,1,Not eqipped,BTYX10011039,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0110495,0.1297204,259.173913,0.0194471,,,,34.2,MPG,34.0889524,32.8072246
,37.0601912,,26.115,0.19564,0.021428,13.056,0.03914,0.021428,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1M,4,1.798,CTYXV01.8BEA,Car,132,4,6,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.31,43.9,1,Not eqipped,CTYX10016223,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0024843,0.0942095,196.3424316,0.0029327,,0.0006839,,45.1,MPG,,,,,26.026,
0.2027,0.021848,10.543,0.04626,0.022174,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,COROLLA MATRIX,11-
ZE1M,4,1.798,CTYXV01.8BEA,Car,132,4,6,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3125,4.31,43.9,1,Not eqipped,CTYX10016445,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0135755,0.1571349,261.7000551,0.0276454,,0.0013054,,33.8,MPG,33.2795108,
32.5431219,36.7149392,,26.026,0.2027,0.021848,10.543,0.04626,0.022174,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 2WD,13-

GJ2A,0,3.956,DTYXT04.0BEN,Truck,260,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,29.2,1,Not eqipped,DTYX91001394,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0040267,0.038,304.3,0.0052408,,0.001,0.01,29.3,MPG,,,,,35.373,0.38634,0.032941,16.564,0.17304,0.03322,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 2WD,13-
GJ2A,0,3.956,DTYXT04.0BEN,Truck,260,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,29.2,1,Not eqipped,DTYX91001395,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0178055,0.1761488,435.8796989,0.0133553,,0.002623,0.01,20.4,MPG,19.514377,20.0502362,21.9246372,,35.373,0.38634,0.032941,16.564,0.17304,0.03322,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 2WD,13-
GJ2A,0,3.956,DTYXT04.0BEN,Truck,260,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,29.2,1,Not eqipped,DTYX91001414,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0207147,0.2508053,455.2171865,0.0050014,,0.0039024,0.01,19.6,MPG,14.2287433,21.8583584,,,35.373,0.38634,0.032941,16.564,0.17304,0.03322,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 2WD,13-
GJ2A,0,3.956,DTYXT04.0BEN,Truck,260,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,29.2,1,Not eqipped,DTYX91001415,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0186791,0.1980391,445.7407922,0.0114757,,0.0025575,0.01,19.9,MPG,18.4972969,20.0901023,20.9598084,,35.373,0.38634,0.032941,16.564,0.17304,0.03322,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1A,0,3.956,DTYXT04.0BEN,Truck,260,6,3,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10019677,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0181582,0.1528866,427.2257772,0.0134914,,0.0023494,,20.7,MPG,19.5532458,20.2300912,22.609366,,42.131,0.39814,0.033709,22.908,0.10902,0.034314,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1A,0,3.956,DTYXT04.0BEN,Truck,260,6,3,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10019685,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0222171,0.3679712,468.6444607,0.006572,,,,18.8,MPG,13.6077566,21.1724604,,,42.131,0.39814,0.033709,22.908,0.10902,0.034314,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1A,0,3.956,DTYXT04.0BEN,Truck,260,6,3,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10019686,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0039159,0.0430126,305.0451561,0.0058042,,0.0009811,,29,MPG,,,,,42.131,0.39814,0.033709,22.908,0.10902,0.034314,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1A,0,3.956,DTYXT04.0BEN,Truck,260,6,3,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4750,3.73,29.2,1,Not eqipped,DTYX10019689,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0177298,0.1477464,431.3928126,0.0167654,,0.0027213,,20.5,MPG,19.2913578,20.0857093,22.372442,,42.131,0.39814,0.033709,22.908,0.10902,0.034314,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1M,0,3.956,DTYXT04.0BEN,Truck,260,6,2,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.91,34.2,1,Not eqipped,DTYX10019678,No,90,US06,23,CARB Phase II Gasoline,US06,0.0264116,2.4156028,508.285125,0.0071182,,,,17.1,MPG,12.4398525,19.1219363,,,44.471,0.54152,0.033209,21.869,0.24774,0.033709,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-
GJ1M,0,3.956,DTYXT04.0BEN,Truck,260,6,2,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.91,34.2,1,Not eqipped,DTYX10019683,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0155718,0.2166286,461.3083383,0.0074596,,0.0034009,,19,MPG,18.2131083,18

.53348,20.4868886,,44.471,0.54152,0.033209,21.869,0.24774,0.033709,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-GJ1M,0,3.956,DTYXT04.0BEN,Truck,260,6,2,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.91,34.2,1,Not eqipped,DTYX10019684,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0042657,0.0478499,326.5424381,0.006642,,0.0013982,,26.8,MPG,,,,,44.471,0.54152,0.033209,21.869,0.24774,0.033709,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,FJ CRUISER 4WD,13-GJ1M,0,3.956,DTYXT04.0BEN,Truck,260,6,2,M,Manual,6,N,A,All Wheel Drive,2,Top gear ration < 1,4750,3.91,34.2,1,Not eqipped,DTYX10019688,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0155568,0.1845412,461.6914135,0.0092402,,0.0034223,,18.9,MPG,18.1839833,18.5733126,20.2967295,,44.471,0.54152,0.033209,21.869,0.24774,0.033709,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,09-AU2A,0,2.672,9TYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.36,31.8,1,Not eqipped,9TYX01088780,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.0055048,0.0290663,415.8852753,0.0360091,,,,21.1,MPG,,,,,33.387,-0.03273,0.030373,7.713,-0.04934,0.029256,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,09-AU2A,0,2.672,9TYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.36,31.8,1,Not eqipped,9TYX01088781,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.1882162,1.2088777,394.0510938,0.0878631,,,,22.2,MPG,18,22.5,25.8,,37.097,-0.03637,0.033748,5.206,-0.0106,0.03216,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,09-AU2A,0,2.672,9TYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.36,31.8,1,Not eqipped,9TYX09010876,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0007339,0.0239078,230.5721268,0.0056867,,0.0005118,0.01,37.7,MPG,,,,,33.387,-0.03273,0.030373,7.713,-0.04934,0.029256,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,09-AU2A,0,2.672,9TYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.36,31.8,1,Not eqipped,9TYX09010878,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.0196062,0.1236281,354.1627004,0.0285542,,0.004768,0.01,24.6,MPG,22.8631034,24.2699866,26.9024506,,33.387,-0.03273,0.030373,7.713,-0.04934,0.029256,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,Highlander 2WD,09-AU2A,1,2.672,ATYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,4.36,31.8,1,Not eqipped,ATYX10005748,No,90,US06,23,CARB Phase II Gasoline,US06,0.00945,0.61663,380.06142,0.01013,,,,22.9,MPG,15.56101,26.40931,,,33.387,-0.03273,0.030373,9.9,-0.11249,0.029745,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,11-GU2A,0,3.456,BTYXT03.5BEP,Truck,270,6,1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.48,31.5,1,Not eqipped,BTYX10008444,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0224392,0.1752473,394.6576183,0.0107706,,,,22.4,MPG,20.8714543,21.8797596,24.756925,,40.129,0.16736,0.029489,18.775,-0.1717,0.032049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 2WD,11-GU2A,0,3.456,BTYXT03.5BEP,Truck,270,6,1,A,Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.48,31.5,1,Not eqipped,BTYX10008445,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0031386,0.0222164,262.6136709,0.0195627,,,,33.6,MPG,,,,,40.129,0.16736,0.029489,18.775,-0.1717,0.032049,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 4WD,11-GU1A,0,3.456,BTYXT03.5BEP,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear ration < 1,4750,3.48,31.5,1,Not eqipped,BTYX91000538,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0067561,0.0717938,281.2777708,0.0205039,,0.0020663,0.01,31,MPG,,,,,45.225,0.22758,0.028825,20.135,-0.02731,0.029692,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER 4WD,11-
GU1A,0,3.456,BTYXT03.5BEP,Truck,270,6,2,A,Automatic,5,Y,A,All Wheel Drive,2,Top gear
ration < 1,4750,3.48,31.5,1,Not eqipped,BTYX91000540,No,25,California fuel 2-day
exhaust (w/can load),23,CARB Phase II
Gasoline,FTP,0.0253104,0.2296816,419.9311151,0.0067941,,0.004762,0.01,20.8,MPG,19.19742
22,20.3933129,22.9243829,,45.225,0.22758,0.028825,20.135,-0.02731,0.029692,TWC,Three-
way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,0,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX91000543,No,3,HWFE,23,CARB
Phase II
Gasoline,HWY,0.0001287,0.0538821,233.1757027,0.0018369,,0.0003012,0.01,37.4,MPG,,,,,38.
06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way catalyst,N,A,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,0,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX91000544,No,25,California
fuel 2-day exhaust (w/can load),23,CARB Phase II
Gasoline,FTP,0.0061539,0.0803236,227.1319099,0.003291,,0.0015534,0.01,38.4,MPG,25.13660
36,58.7076712,30.3650369,59.5652135,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,T
hree-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,0,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not
eqipped,BTYX91000557,No,90,US06,23,CARB Phase II
Gasoline,US06,0.0079771,0.0797498,338.3122898,0.0014069,,0.0012169,0.01,25.8,MPG,18.001
4939,29.4012803,,,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,1,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not
eqipped,BTYX10008326,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0068439,0.0819703,331.0048091,0.0032512,,,,26.7,MPG,18.1054806,30.89427
59,,,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,1,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008782,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0002808,0.0578798,233.3659509,0.001998,,,,37.9,MPG,,,,,38.06,0.19575,0.0
2758,17.237,0.20237,0.024361,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,1,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008785,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0103941,0.0808992,222.4692063,0.0028073,,,,39.8,MPG,26.3495913,62.665465
1,31.2271033,59.2999706,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,2,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not
eqipped,BTYX10008328,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0045215,0.0491309,324.8720749,0.0037778,,,,27.2,MPG,18.9212119,31.11959
53,,,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way
catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU1H,2,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008783,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.006228,0.0622336,217.6178173,0.002699,,,,40.5,MPG,26.6765489,66.9497848,

29.8586293,67.9642215,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU1H,2,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008784,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0004649,0.0418509,230.4643262,0.002028,,,,38.4,MPG,,,,,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU1H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008329,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0058731,0.0651993,222.0896352,0.002196,,,,39.8,MPG,25.5236993,63.1104965,30.471654,65.4637982,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU1H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008330,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0048896,0.1026246,328.556088,0.0019366,,,,26.9,MPG,19.0438344,30.4639233,,,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU1H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008786,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003197,0.0394164,230.381738,0.0022658,,,,38.4,MPG,,,,,37.519,0.19575,0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,A,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU2H,0,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008331,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.0060882,0.0167582,346.0223951,0.0003286,,,,25.3,MPG,,,,,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU2H,0,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008332,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.3848879,2.1613254,288.3396591,0.0019568,,,,30,MPG,18.8849154,37.1799642,27.4884018,,42.289,0.2175,0.030644,22.799,-0.048,0.030722,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU2H,1,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008333,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0076015,0.0630095,356.7086668,0.000296,,,,24.8,MPG,,,,,38.06,0.19575,0.02758,17.237,0.20237,0.024361,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU2H,1,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel Drive,2,Top gear ration < 1,5250,3.54,24.2,1,Not eqipped,BTYX10008334,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.3356727,1.9792425,292.918908,0.0019967,,,,29.6,MPG,18.8488302,34.5424592,27.6686937,,42.289,0.2175,0.030644,22.799,-0.048,0.030722,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-GU2H,2,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel

Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not
eqipped,BTYX10008335,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0053626,0.0501789,341.3104581,0.0001952,,,,25.9,MPG,,,,,37.519,0.19575,
0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU2H,2,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008336,No,11,Cold
CO,26,Cold CO Regular (Tier
2),FTP,0.3671736,2.043564,295.2180368,0.0027368,,,,29.3,MPG,18.4503756,34.9666618,25.79
92472,,41.687,0.2175,0.030644,19.663,0.17839,0.028074,TWC,Three-way
catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU2H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not
eqipped,BTYX10008337,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0062439,0.0304488,393.3216855,0.0001408,,,,22.5,MPG,,,,,37.519,0.19575,
0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU2H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not eqipped,BTYX10008338,No,11,Cold
CO,26,Cold CO Regular (Tier
2),FTP,0.389773,2.1775276,294.7060843,0.0035799,,,,29.3,MPG,18.8819832,34.1385537,25.34
85897,,41.687,0.2175,0.030644,19.663,0.17839,0.028074,TWC,Three-way
catalyst,N,B,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU2H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not
eqipped,BTYX10008973,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0319568,0.3177181,349.9999081,0.0123458,,,,25.2,MPG,,,,,37.519,0.19575,
0.02758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,HIGHLANDER HYBRID 4WD,11-
GU2H,3,3.456,BTYXT03.5CCU,Truck,231,6,1,CVT,Continuously Variable,1,N,A,All Wheel
Drive,2,Top gear ration < 1,5000,3.54,24.2,1,Not
eqipped,BTYX10008996,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0221442,0.1481283,367.8162279,0.012208,,,,24,MPG,,,,,37.519,0.19575,0.0
2758,16.633,0.19362,0.024588,TWC,Three-way catalyst,N,B,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,LAND CRUISER WAGON 4WD,13-
UJ1A,2,5.663,DTYXT05.7BEX,Truck,381,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6000,3.91,25.8,1,Not eqipped,DTYX10017076,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0047745,0.1086661,362.4384054,0.0043133,,0.0014345,,24.4,MPG,,,,,61.5,0.
44498,0.03304,28.501,0.12595,0.033342,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,LAND CRUISER WAGON 4WD,13-
UJ1A,2,5.663,DTYXT05.7BEX,Truck,381,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6000,3.91,25.8,1,Not eqipped,DTYX10017078,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.017672,0.2334094,551.6343522,0.0126854,,0.0037267,,16,MPG,15.4946454,15.
3931756,17.9534973,,61.5,0.44498,0.03304,28.501,0.12595,0.033342,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,LAND CRUISER WAGON 4WD,13-
UJ1A,3,5.663,DTYXT05.7BEX,Truck,381,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear
ration < 1,6000,3.91,25.8,1,Not eqipped,DTYX10017072,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0182591,0.1523792,546.0003696,0.0160974,,0.0040444,,16.2,MPG,15.5810584,
15.6141892,18.0661269,,61.5,0.44498,0.03304,28.501,0.12595,0.033342,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,LAND CRUISER WAGON 4WD,13-

UJ1A,3,5.663,DTYXT05.7BEX,Truck,381,8,1,A,Automatic,6,Y,4,4-Wheel Drive,2,Top gear ration < 1,6000,3.91,25.8,1,Not eqipped,DTYX10017077,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0089451,0.0388434,358.7476822,0.0060442,,0.0025071,,24.7,MPG,,,,,61.5,0.44498,0.03304,28.501,0.12595,0.033342,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,0,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX91000041,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.0039849,0.0358224,130.8100637,0.0031105,,0.000799,0.01,66.6,MPG,46.2160331,98.0240615,51.3695234,101.5356326,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,0,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX91000052,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0,0.0265347,128.6861186,0.0020255,,0.0000048,0.01,67.6,MPG,,,,,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,1,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX10000602,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.004355,0.0606595,130.0496473,0.0051026,,,,68.1,MPG,,,,,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,1,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX10000603,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0000909,0.0231297,134.0886982,0.0017633,,,,66.1,MPG,,,,,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,2,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX10000604,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0041885,0.0511312,130.1227932,0.0006,,,,68.1,MPG,,,,,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,2,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.9,1,Not eqipped,ATYX10000605,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0000383,0.0233449,133.1376316,0.0020316,,,,66.6,MPG,,,,,20.234,0.01993,0.01874,2.707,0.10377,0.016208,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,3,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not eqipped,ATYX10001664,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0041301,0.0421906,122.8989144,0.0007543,,,,71.8,MPG,,,,,18.501,0.02235,0.018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,3,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not eqipped,ATYX10001665,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.000077,0.024303,125.7411575,0.0019758,,,,70.2,MPG,,,,,18.501,0.02235,0.018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,4,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not eqipped,ATYX10001661,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0047455,0.0400357,121.8403342,0.0006796,,,,72.4,MPG,,,,,18.501,0.02235,0.018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,4,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not

eqipped,ATYX10001666,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0001324,0.0163605,126.8913116,0.0016764,,,,69.6,MPG,,,,,18.501,0.02235,0
.018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,5,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not
eqipped,ATYX10001668,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0041927,0.0509014,121.938424,0.0004718,,,,72.4,MPG,,,,,18.501,0.02235,0.
018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS,10-ZW1H,5,1.798,ATYXV01.8HC3,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.27,26.8,1,Not
eqipped,ATYX10001669,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002426,0.0155781,127.1332557,0.0019926,,,,69.6,MPG,,,,,18.501,0.02235,0
.018111,2.408,0.0366,0.016365,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10016493,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.0184982,0.1163039,180.1866934,0.0032294,,,,48.6,MPG,,,,,20.743,0.19359,
0.016162,8.707,0.05086,0.017553,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10016494,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1408171,1.1570106,161.5399364,0.014,,,,53.5,MPG,35.6334024,72.5722926,46.20238
7,,23.048,0.2151,0.017958,8.347,-0.04507,0.020399,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX91001118,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0030104,0.145374,216.8729752,0.0002647,,0.0006547,0.01,41,MPG,31.488189
5,44.8899845,,,20.743,0.19359,0.016162,8.707,0.05086,0.017553,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX91001119,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0007675,0.0155023,140.4235207,0.0018481,,0.0003153,0.01,63.6,MPG,,,,,20.
743,0.19359,0.016162,8.707,0.05086,0.017553,TWC,Three-way catalyst,N,H,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX91001145,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0064997,0.0344559,135.2641642,0.000711,,0.0006263,0.01,65.9,MPG,45.94798
72,88.436638,55.8125848,90.96328,20.743,0.19359,0.016162,8.707,0.05086,0.017553,TWC,Thr
ee-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10016495,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1456748,1.1761987,161.178781,0.0083797,,,,53.9,MPG,36.1000922,68.4043186,46.92
79865,,23.048,0.2151,0.017958,8.347,-0.04507,0.020399,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10016500,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0106548,0.0856148,183.5887652,0.0014745,,,,48.1,MPG,,,,,20.743,0.19359,
0.016162,8.707,0.05086,0.017553,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not

eqipped,CTYX10016655,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0057527,0.1167975,195.5228137,0.0017894,,,,45.1,MPG,35.481043,49.159405
8,,,20.743,0.19359,0.016162,8.707,0.05086,0.017553,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10017187,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0001653,0.0089378,132.9247938,0.0012078,,0.0001217,,66.6,MPG,,,,20.743,
0.19359,0.016162,8.707,0.05086,0.017553,TWC,Three-way catalyst,N,H,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP1H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,28,1,Not
eqipped,CTYX10017190,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0036352,0.0401525,124.2234292,0.0007331,,0.0006746,,71.4,MPG,48.8610876,
102.910846,56.3757626,106.628601,20.743,0.19359,0.016162,8.707,0.05086,0.017553,TWC,Thr
ee-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX10016526,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0124132,0.1174186,176.3921595,0.0006922,,,,50.2,MPG,,,,,17.919,0.1818,0
.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX10016527,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1538322,1.0907978,151.9797156,0.0136332,,,,57,MPG,37.1232941,74.198297,48.4787
503,,19.91,0.202,0.017285,2.866,-0.0862,0.020108,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX91001122,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0031246,0.09445,209.3795917,0.0011083,,0.0006713,0.01,42.6,MPG,31.97353
51,46.8495327,,,17.919,0.1818,0.015557,8.361,-0.02586,0.017716,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX91001126,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0075005,0.033908,128.8904908,0.0016304,,0.0005914,0.01,69,MPG,48.1382391
,93.7562494,57.4731377,97.7084047,17.919,0.1818,0.015557,8.361,-
0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,0,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX91001127,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0002046,0.0249022,130.6068412,0.0016168,,0.0001573,,68,MPG,,,,,17.919,0.
1818,0.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX10016528,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0242058,0.1899018,173.5790302,0.0018405,,,,50.8,MPG,,,,,17.919,0.1818,0
.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging
(1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not
eqipped,CTYX10016529,No,11,Cold CO,26,Cold CO Regular (Tier
2),FTP,0.1333487,1.0877526,148.8848493,0.0047057,,,,58.2,MPG,38.0309828,73.5821197,50.7
253961,,19.91,0.202,0.017285,2.866,-0.0862,0.020108,TWC,Three-way
catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously

Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not eqipped,CTYX10016531,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0033794,0.0576538,186.3185698,0.0008724,,,,47.6,MPG,35.9556408,52.06447 92,,,17.919,0.1818,0.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not eqipped,CTYX10017188,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0000924,0.0123662,123.567393,0.0009913,,0.0000752,,71.4,MPG,,,,,17.919,0 .1818,0.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS c,12-NP2H,1,1.497,CTYXV01.5CC4,Car,82,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2750,3.19,27.8,1,Not eqipped,CTYX10017189,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0046434,0.0418272,117.8270844,0.001061,,0.0007687,,75,MPG,52.3138833,109 .2611569,60.2073475,106.628601,17.919,0.1818,0.015557,8.361,-0.02586,0.017716,TWC,Three-way catalyst,N,H,0.5,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,0,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017117,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.0035176,0.0504377,180.7904938,0.0032554,,,,48.3,MPG,,,,,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,0,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX91001182,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.0044397,0.0579088,124.5113745,0.0017968,,0.0008851,0.01,69.7,MPG,45.0244 263,110.1550769,51.9493982,124.2919214,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,0,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX91001184,No,90,US06,23,CARB Phase II Gasoline,US06,0.0089612,0.107999,192.4553382,0.0052579,,0.0011183,0.01,45.4,MPG,32.6675 448,50.8898287,,,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,0,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX91001185,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0,0.01751,128.1080271,0.0037597,,0.0001197,0.01,68.1,MPG,,,,,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,1,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017118,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.004375,0.0707907,185.3097503,0.0027509,,,,47.8,MPG,,,,,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW3H,2,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017119,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0026696,0.0314171,178.3447553,0.0029714,,,,49.7,MPG,,,,,22.883,-0.15919,0.020143,7.814,-0.14989,0.019072,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-ZW4H,0,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017126,No,11,Cold CO,26,Cold CO Regular (Tier

2),FTP,0.1517008,0.4667176,167.0471307,0.0081002,,,,52.1,MPG,33.6619874,58.8247723,46.6
44448,,25.425,-0.17688,0.022381,2.866,-0.0862,0.020108,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,1,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017128,No,11,Cold
CO,26,Cold CO Regular (Tier
2),FTP,0.1575685,0.5186985,166.81201,0.0071872,,,,52.1,MPG,33.8645266,59.2244235,46.885
9162,,25.425,-0.17688,0.022381,2.866,-0.0862,0.020108,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,1,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not
eqipped,CTYX91001167,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0,0.0247042,130.8641573,0.0035802,,0.0000674,0.01,68,MPG,,,,,22.883,-
0.15919,0.020143,7.326,-0.08529,0.018019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,1,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX91001168,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0033374,0.0574914,126.4968349,0.0012788,,0.0008173,0.01,70.6,MPG,46.4835
929,109.9964884,52.2215671,119.5265257,22.883,-0.15919,0.020143,7.326,-
0.08529,0.018019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,1,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not
eqipped,CTYX91001169,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0067772,0.0619166,187.4788977,0.0022613,,0.000777,0.01,47.6,MPG,33.7796
832,53.6397577,,,22.883,-0.15919,0.020143,7.326,-0.08529,0.018019,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,2,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not
eqipped,CTYX10017124,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0049048,0.0618054,187.0234522,0.0040995,,,,47.3,MPG,33.5052417,53.63532
84,,,22.883,-0.15919,0.020143,7.326,-0.08529,0.018019,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,2,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017129,No,11,Cold
CO,26,Cold CO Regular (Tier
2),FTP,0.153278,0.4335663,167.2872239,0.0101153,,,,52.2,MPG,34.9065626,58.0470141,48.17
30398,,25.425,-0.17688,0.022381,2.866,-0.0862,0.020108,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,2,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not eqipped,CTYX10017473,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0064818,0.0804722,121.7013991,0.0014132,,0.0013648,,72.5,MPG,46.9887195,
116.4231484,54.9462179,121.2310958,22.883,-0.15919,0.020143,7.326,-
0.08529,0.018019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS Plug-in Hybrid,12-
ZW4H,2,1.798,CTYXV01.8HCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.27,25.4,1,Not
eqipped,CTYX10017474,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0000975,0.0188768,128.2509624,0.0032842,,0.0000195,,69.2,MPG,,,,,22.883,
-0.15919,0.020143,7.326,-0.08529,0.018019,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,0,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012821,No,35,California fuel 3-day exhaust,23,CARB Phase II

Gasoline,FTP,0.0036531,0.0923235,148.3199728,0.000763,,0.0008,,59.2,MPG,42.9257048,76.9
054816,45.4312031,93.254629,34.558,-0.34633,0.027725,14.533,-
0.17206,0.023768,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,0,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012835,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0001274,0.025964,157.9166662,0.0023803,,0.002,,55.5,MPG,,,,,34.558,-
0.34633,0.027725,14.533,-0.17206,0.023768,TWC,Three-way catalyst,N,A,0.33,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,1,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012823,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0000731,0.0328881,158.466464,0.001362,,,,56.1,MPG,,,,,34.558,-
0.34633,0.027725,14.533,-0.17206,0.023768,TWC,Three-way catalyst,N,A,0.34,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,1,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012834,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0040396,0.0901863,149.1677595,0.0006515,,,,59.4,MPG,42.7211517,80.457330
6,46.8423511,87.6595702,34.558,-0.34633,0.027725,14.533,-0.17206,0.023768,TWC,Three-way
catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,2,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012824,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0039909,0.082403,148.9344939,0.0008156,,,,59.4,MPG,42.9282277,80.4800703
,46.5961332,89.44381,34.558,-0.34633,0.027725,14.533,-0.17206,0.023768,TWC,Three-way
catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,2,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012825,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0000956,0.0354048,158.8428401,0.0014181,,,,55.7,MPG,,,,,34.558,-
0.34633,0.027725,14.533,-0.17206,0.023768,TWC,Three-way catalyst,N,A,0.33,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,3,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012826,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0046134,0.0806749,143.9604026,0.0007624,,,,61.5,MPG,44.4369738,81.969590
1,47.8707962,93.1611563,31.366,-0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way
catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,3,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX10012827,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.000265,0.024057,151.3337471,0.0021907,,,,58.7,MPG,,,,,31.366,-
0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way catalyst,N,A,0.33,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,4,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX91000902,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.000432,0.0162389,156.2051586,0.0018567,,0.000168,0.01,57.1,MPG,,,,,31.36
6,-0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way catalyst,N,A,0.34,H,Harmonic
averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,4,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously
Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not
eqipped,CTYX91000903,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0042234,0.0538928,152.3818514,0.0013384,,0.0008393,0.01,58.5,MPG,42.0164
685,73.7965046,49.102558,82.671019,31.366,-0.41078,0.028127,13.56,-
0.23424,0.024158,TWC,Three-way catalyst,N,A,0.34,H,Harmonic averaging (1/(Sum(i=1 to n)
(FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,5,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously

Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not eqipped,CTYX10012828,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0076871,0.1096944,146.7277363,0.0008326,,,,60.2,MPG,42.6772311,79.0206663,48.1292984,91.2386189,31.366,-0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,5,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not eqipped,CTYX10012833,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0065159,0.0167258,151.5842487,0.0029222,,,,58.3,MPG,,,,,31.366,-0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,PRIUS v,12-ZW2H,5,1.798,CTYXV01.8CCU,Car,98,4,1,CVT,Continuously Variable,1,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.7,28.9,1,Not eqipped,CTYX10012856,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0038818,0.0717125,146.4749212,0.0004111,,,,60.6,MPG,42.5229948,82.7472401,46.356071,96.2454771,31.366,-0.41078,0.028127,13.56,-0.23424,0.024158,TWC,Three-way catalyst,N,A,0.33,H,Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1A,0,2.362,8TYXV02.4BEB,Car,158,,2,A,Automatic,4,Y,F,"2-Wheel Drive, Front",1,No gear ratio < 1,3500,2.74,39.1,1,Not eqipped,8TYX01074106,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.015632,0.1192605,318.8867968,0.0094301,,0.003,,27.4,MPG,25.3,27,30.1,,33.72,-0.01516,0.025857,13.22,-0.00893,0.025828,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1A,0,2.362,8TYXV02.4BEB,Car,158,,2,A,Automatic,4,Y,F,"2-Wheel Drive, Front",1,No gear ratio < 1,3500,2.74,39.1,1,Not eqipped,8TYX01074107,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0011528,0,226.4674552,0.0069471,,0.007,,38.7,MPG,,,,,33.72,-0.01516,0.025857,13.22,-0.00893,0.025828,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1M,0,2.362,8TYXV02.4BEB,Car,158,,3,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.4,1,Not eqipped,8TYX01074112,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.021408,0.1842051,318.1735541,0.0111496,,,,27.7,MPG,,,,,26.479,0.33718,0.022464,12,0.08489,0.023698,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1M,0,2.362,8TYXV02.4BEB,Car,158,,3,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.4,1,Not eqipped,8TYX01074113,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0010971,0.0047523,228.2517459,0.0088107,,,,38.7,MPG,,,,,26.479,0.33718,0.022464,12,0.08489,0.023698,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1M,0,2.362,8TYXV02.4BEB,Car,158,,3,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.4,1,Not eqipped,8TYX01074446,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0228526,0.3441719,319.7094412,0.0194272,,,,27.6,MPG,,,,,26.479,0.33718,0.022464,12,0.08489,0.023698,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1M,0,2.362,8TYXV02.4BEB,Car,158,,3,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.4,1,Not eqipped,8TYX01074449,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0236943,0.2384451,317.1897061,0.0202902,,,,27.8,MPG,,,,,26.479,0.33718,0.022464,12,0.08489,0.023698,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xB,08-AE1M,0,2.362,8TYXV02.4BEB,Car,158,,3,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,4.24,43.4,1,Not eqipped,8TYX01074451,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0211546,0.2205419,322.1135776,0.0204872,,,,27.4,MPG,,,,,26.479,0.33718,0.022464,12,0.08489,0.023698,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SCION xD,08-ZP1M,0,1.798,8TYXV01.8AJA,Car,128,,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3000,3.94,44.8,1,Not eqipped,8TYX09006916,No,25,California fuel 2-day

exhaust (w/can load),23,CARB Phase II
Gasoline,FTP,0.0264394,0.2000797,250.892098,0.0154905,,0.0031816,0.01,34.7,MPG,34.05770
72,33.6197762,37.6046209,,23.707,0.19351,0.020276,9.92,-0.0076,0.021463,,,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,SCION xD,08-
ZP1M,0,1.798,8TYXV01.8AJA,Car,128,,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,3000,3.94,44.8,1,Not eqipped,8TYX09006917,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0078351,0.101331,185.5892404,0.0012007,,0.0019169,0.01,46.8,MPG,,,,,23.7
07,0.19351,0.020276,9.92,-0.0076,0.021463,,,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,Scion xD,10-
ZP1A,0,1.798,ATYXV01.8BEA,Car,128,4,1,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3000,4.13,40.3,1,Not eqipped,ATYX10002218,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0107622,0.1190189,187.1953574,0.0042562,,,,47.2,MPG,,,,,29.484,-
0.09632,0.023238,12.616,-0.16982,0.023308,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,Scion xD,10-
ZP1A,0,1.798,ATYXV01.8BEA,Car,128,4,1,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3000,4.13,40.3,1,Not eqipped,ATYX10002242,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.024968,0.2091828,255.7381005,0.010225,,,,34.5,MPG,33.0265529,33.744366,3
7.447662,,29.484,-0.09632,0.023238,12.616,-0.16982,0.023308,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 2WD,12-
SK3A,0,5.663,CTYXT05.7BEY,Truck,381,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015323,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0266403,0.2303626,550.6731501,0.01443,,0.0054388,0.01,16.1,MPG,15.198467
,15.6981227,17.8673112,,54.425,0.31422,0.036817,20.29,0.0153,0.036806,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 2WD,12-
SK3A,0,5.663,CTYXT05.7BEY,Truck,381,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top
gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015324,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0093651,0.0415759,360.2279643,0.0047899,,0.0022237,0.01,24.7,MPG,,,,,54.
425,0.31422,0.036817,20.29,0.0153,0.036806,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,10-
UK1A,1,4.608,ATYXT04.6BEW,Truck,310,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,6500,3.91,24.9,1,Not eqipped,ATYX10020865,Yes,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,17.2,MPG,,,,,45.274,0.76391,0.033085,20.6,0.1586,0.035289,TWC,Three
-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,10-
UK1A,1,4.608,ATYXT04.6BEW,Truck,310,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,6500,3.91,24.9,1,Not eqipped,ATYX10020866,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,26.2,MPG,,,,,45.274,0.76391,0.033085,20.6,0.1586,0.035289,TWC,Three
-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,12-
SK1A,0,5.663,CTYXT05.7BEY,Truck,381,8,4,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10015350,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0109017,0.0529863,374.2080431,0.0060767,,,,23.2,MPG,,,,,60.09,0.37781,0.
036357,26.34,-0.043,0.036534,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,12-
SK1A,0,5.663,CTYXT05.7BEY,Truck,381,8,4,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10015633,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0197397,0.191646,563.9616548,0.0115337,,0.0056627,,15.4,MPG,14.4392971,1
4.9427109,17.1894991,,60.09,0.37781,0.036357,26.34,-0.043,0.036534,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,12-
SK1A,1,5.663,CTYXT05.7BEY,Truck,381,8,4,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10015351,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0104133,0.0360649,372.9322762,0.0055086,,0.0028136,0.01,23.9,MPG,,,,,52.

312,0.47981,0.035723,24.91,0.0591,0.035995,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD,12-
SK1A,1,5.663,CTYXT05.7BEY,Truck,381,8,4,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10015632,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.022675,0.1641598,570.9815495,0.018665,,0.0048678,0.01,15.5,MPG,14.565681
,15.0957239,17.2744085,,52.312,0.47981,0.035723,24.91,0.0591,0.035995,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,0,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10016117,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0375657,0.2116084,566.5345276,0.0159798,,0.0092476,,15.6,MPG,14.7566043,
15.1332603,17.3932708,,60.09,0.37781,0.036357,27.554,-0.18371,0.037608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,0,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10016118,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0125407,0.0341757,369.9306934,0.0064148,,0.0034888,,23.9,MPG,,,,,60.09,0
.37781,0.036357,27.554,-0.18371,0.037608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,1,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10016250,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0250141,0.1992363,545.7767355,0.0128867,,0.0173593,,11.1,MPG,10.6080972
,10.7872174,12.3906486,,60.09,0.37781,0.036357,27.554,-0.18371,0.037608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,1,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.3,1,Not eqipped,CTYX10016251,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0090572,0.0519706,353.5823587,0.0088995,,0.0071448,,17.2,MPG,,,,,60.09,
0.37781,0.036357,27.554,-0.18371,0.037608,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,2,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10016119,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0272985,0.1820104,560.5876212,0.0127368,,0.0073547,,15.8,MPG,14.9896828,
15.3435031,17.3932058,,52.312,0.47981,0.035723,28.777,-0.08309,0.036992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,2,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10016120,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0130485,0.0493061,367.3482955,0.0052487,,0.0038504,,24.1,MPG,,,,,52.312,
0.47981,0.035723,28.777,-0.08309,0.036992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,3,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10016252,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0147066,0.124156,535.2212691,0.0135488,,0.0084466,,11.4,MPG,10.7616189,
11.0173359,12.5909196,,52.312,0.47981,0.035723,28.777,-0.08309,0.036992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SEQUOIA 4WD FFV,12-
SK4A,3,5.663,CTYXT05.7XE8,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6500,4.3,27.4,1,Not eqipped,CTYX10016253,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0104033,0.0651739,347.0574228,0.0098554,,0.0080318,,17.5,MPG,,,,,52.312
,0.47981,0.035723,28.777,-0.08309,0.036992,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-
AL1A,0,2.672,BTYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top

gear ration < 1,4500,4.36,32.6,1,Not eqipped,BTYX10007670,No,90,US06,23,CARB Phase II Gasoline,US06,0.0132264,0.731244,399.0053779,0.0076868,,,,21.9,MPG,14.5190057,25.5979494,,,37.384,0.03816,0.029553,13.139,0.01921,0.028493,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-AL1A,0,2.672,BTYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.36,32.6,1,Not eqipped,BTYX10007986,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0229651,0.2219215,347.666029,0.0204862,,0.0054068,,25.2,MPG,22.9586239,24.7512355,28.0772015,,37.384,0.03816,0.029553,13.139,0.01921,0.028493,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-AL1A,0,2.672,BTYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.36,32.6,1,Not eqipped,BTYX10007987,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0055539,0.0423303,236.6565501,0.0064328,,0.0019,,37,MPG,,,,,37.384,0.03816,0.029553,13.139,0.01921,0.028493,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-AL2A,0,2.672,BTYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.36,32.6,1,Not eqipped,BTYX10007666,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.0274343,0.1909472,479.4908272,0.0241029,,,,18.3,MPG,,,,,37.384,0.03816,0.029553,13.139,0.01921,0.028493,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-AL2A,0,2.672,BTYXT02.7BEM,Truck,187,4,1,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,4.36,32.6,1,Not eqipped,BTYX10007667,No,11,Cold CO,26,Cold CO Regular (Tier 2),FTP,0.2462758,1.719584,416.4873086,0.0736561,,,,20.9,MPG,16.148929,21.3983371,25.42646,,41.538,0.0424,0.032836,7.943,0.08996,0.031234,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-GL3A,2,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.94,29.5,1,Not eqipped,CTYX10015335,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0057202,0.0375606,255.0882384,0.0248955,,0.0017595,,34.7,MPG,,,,,38.822,-0.04688,0.029979,15.939,-0.09824,0.029315,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-GL3A,2,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.94,29.5,1,Not eqipped,CTYX10015336,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0233087,0.2137516,390.839085,0.0129706,,0.0040526,,22.6,MPG,21.5570073,21.9142248,25.0712044,,38.822,-0.04688,0.029979,15.939,-0.09824,0.029315,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-GL3A,3,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.94,29.9,1,Not eqipped,CTYX10015237,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0040444,0.0267171,256.8443572,0.0235988,,0.0016257,,34.4,MPG,,,,,39.626,-0.05813,0.030287,13.778,-0.1321,0.02953,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-GL3A,3,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4750,3.94,29.9,1,Not eqipped,CTYX10015238,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.022916,0.1891753,386.4440785,0.016012,,0.0038953,,22.9,MPG,21.7196253,22.2437302,25.2920524,,39.626,-0.05813,0.030287,13.778,-0.1321,0.02953,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-GL3A,4,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.94,29.5,1,Not eqipped,CTYX10015241,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0224864,0.1802489,380.349021,0.0125482,,0.0037846,,23.3,MPG,22.2154676,22.4695345,25.8837873,,36.281,-0.04688,0.029973,13,-0.09712,0.029332,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA,11-

GL3A,4,3.456,CTYXT03.5BEN,Truck,266,6,8,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4500,3.94,29.5,1,Not eqipped,CTYX10015244,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0041982,0.0291147,251.2164384,0.0216085,,0.0013503,,35.3,MPG,,,,,36.281,-0.04688,0.029973,13,-0.09712,0.029332,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA AWD,11-GL1A,1,3.456,CTYXT03.5BEN,Truck,266,6,7,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.15,30.9,1,Not eqipped,CTYX91000993,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0028178,0.029053,273.4205755,0.0062265,,0.0011625,0.01,32,MPG,,,,,49.172,0.11379,0.028122,21.842,-0.03881,0.027563,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,SIENNA AWD,11-GL1A,1,3.456,CTYXT03.5BEN,Truck,266,6,7,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.15,30.9,1,Not eqipped,CTYX91000994,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.0198189,0.1253977,430.2261923,0.0103239,,0.0028288,0.01,20.3,MPG,18.9957978,19.7164047,22.5971323,,49.172,0.11379,0.028122,21.842,-0.03881,0.027563,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,1,3.956,CTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,30.7,1,Not eqipped,CTYX10014384,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0202891,0.4348003,418.1035893,0.0133765,,0.0049011,,21.1,MPG,19.714454,20.7311327,23.2569011,,29.874,0.33719,0.032755,14.929,0.07111,0.033633,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,1,3.956,CTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4500,3.73,30.7,1,Not eqipped,CTYX10014385,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.03471,0.5628851,298.0902581,0.008375,,0.010415,,29.6,MPG,,,,,29.874,0.33719,0.032755,14.929,0.07111,0.033633,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,2,3.956,CTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.73,30.7,1,Not eqipped,CTYX10014391,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0202768,0.4643211,410.2459266,0.0136794,,0.0050713,,21.5,MPG,20.1823034,21.0529334,23.716723,,29.874,0.33719,0.032755,14.282,0.06254,0.033604,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,2,3.956,CTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.73,30.7,1,Not eqipped,CTYX10014392,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0389928,0.7075553,296.144416,0.0085587,,0.0124129,,29.8,MPG,,,,,29.874,0.33719,0.032755,14.282,0.06254,0.033604,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,3,3.956,DTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.73,30.9,1,Not eqipped,DTYX10019611,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,,,,,,,21.1,MPG,,,,,32.624,0.41083,0.033447,14.282,0.06254,0.033604,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2A,3,3.956,DTYXT04.0BEM,Truck,236,6,2,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.73,30.9,1,Not eqipped,DTYX10019612,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,28.8,MPG,,,,,32.624,0.41083,0.033447,14.282,0.06254,0.033604,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2M,0,3.956,CTYXT04.0BEM,Truck,236,6,1,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4250,3.15,34.3,1,Not eqipped,CTYX10014464,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0231128,0.6446891,435.5640136,0.0102454,,0.0062041,,20.2,MPG,19.5280926,19.6026809,22.2455283,,45.172,0.33686,0.027231,24.385,-0.06475,0.029111,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,12-GN2M,0,3.956,CTYXT04.0BEM,Truck,236,6,1,M,Manual,6,N,R,"2-Wheel Drive, Rear",2,Top gear

ration < 1,4250,3.15,34.3,1,Not eqipped,CTYX10014465,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0165059,0.1997948,305.9304139,0.0050117,,0.0046188,,28.9,MPG,,,,,45.172,0.33686,0.027231,24.385,-0.06475,0.029111,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,0,2.694,DTYXT02.7BEH,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.58,32.7,1,Not eqipped,DTYX10019803,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.001463,0.0120475,244.7262483,0.0035577,,0.000553,,36.1,MPG,,,,,31.25,0.21775,0.026842,15.624,0.04355,0.026842,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,0,2.694,DTYXT02.7BEH,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.58,32.7,1,Not eqipped,DTYX10019804,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0078301,0.364411,378.3819691,0.0054785,,,,23.4,MPG,16.8305214,26.185084,,,31.25,0.21775,0.026842,15.624,0.04355,0.026842,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,0,2.694,DTYXT02.7BEH,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.58,32.7,1,Not eqipped,DTYX10019814,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0190967,0.1648912,351.8205746,0.0238347,,0.002971,,25.1,MPG,22.6485479,24.7658828,28.0629743,,31.25,0.21775,0.026842,15.624,0.04355,0.026842,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,1,2.694,DTYXT02.7BER,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.58,32.7,1,Not eqipped,DTYX10019805,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0029836,0.0209672,247.9721758,0.0033756,,0.0011165,,35.6,MPG,,,,,33.552,0.21706,0.026853,16.775,0.04341,0.026853,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,1,2.694,DTYXT02.7BER,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.58,32.7,1,Not eqipped,DTYX10019806,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0252599,0.1803537,365.1587192,0.0260154,,0.0038493,,24.2,MPG,21.860269,23.8946531,26.9437057,,33.552,0.21706,0.026853,16.775,0.04341,0.026853,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2A,1,2.694,DTYXT02.7BER,Truck,159,4,4,A,Automatic,4,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,4000,3.58,32.7,1,Not eqipped,DTYX10019807,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0103504,0.3494356,393.1034376,0.0041383,,,,22.5,MPG,15.7734021,25.5107124,,,33.552,0.21706,0.026853,16.775,0.04341,0.026853,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2M,0,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.31,34.6,1,Not eqipped,DTYX10019808,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0028061,0.0149133,239.2889939,0.0035433,,0.0012984,,36.6,MPG,,,,,26.682,0.32131,0.026062,9.714,0.0701,0.026649,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2M,0,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.31,34.6,1,Not eqipped,DTYX10019811,No,90,US06,23,CARB Phase II Gasoline,US06,0.0053943,0.1296928,369.8743382,0.0064839,,,,23.6,MPG,17.048161,26.5786668,,,26.682,0.32131,0.026062,9.714,0.0701,0.026649,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2M,0,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3625,3.31,34.6,1,Not eqipped,DTYX10020372,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0092742,0.1914782,328.6818687,0.0107742,,0.0027757,,26.6,MPG,25.0978702,25.9516874,29.2477628,,26.682,0.32131,0.026062,9.714,0.0701,0.026649,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-TN2M,1,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,3875,3.31,34.6,1,Not eqipped,DTYX10019812,No,90,US06,61,Tier 2 Cert

Gasoline,US06,0.005428,0.1537604,378.9298571,0.0040511,,,,23.3,MPG,16.5411104,26.365840
3,,,28.285,0.32062,0.026073,11.685,0.03335,0.026906,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-
TN2M,1,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.31,34.6,1,Not eqipped,DTYX10019821,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0041347,0.0340654,240.9574472,0.0033451,,0.0015975,,36.7,MPG,,,,,28.285,
0.32062,0.026073,11.685,0.03335,0.026906,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 2WD,13-
TN2M,1,2.694,DTYXT02.7BEH,Truck,159,4,2,M,Manual,5,N,R,"2-Wheel Drive, Rear",2,Top gear
ration < 1,3875,3.31,34.6,1,Not eqipped,DTYX10020376,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0114815,0.224223,333.8859737,0.0099953,,0.0032924,,26.4,MPG,25.135999,25
.8404674,28.7821189,,28.285,0.32062,0.026073,11.685,0.03335,0.026906,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1A,0,3.956,CTYXT04.0BEM,Truck,236,6,4,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,30.7,1,Not eqipped,CTYX91000979,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0316341,0.4317779,309.4667811,0.00585,,0.0077496,0.01,28.7,MPG,,,,,34.21
3,0.4244,0.032109,16.944,0.07397,0.033273,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1A,0,3.956,CTYXT04.0BEM,Truck,236,6,4,A,Automatic,5,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,30.7,1,Not eqipped,CTYX91000980,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0227734,0.4786989,446.8040592,0.0124467,,0.0054366,0.01,19.9,MPG,18.6742
805,19.4268996,21.970434,,34.213,0.4244,0.032109,16.944,0.07397,0.033273,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1M,0,3.956,CTYXT04.0BEM,Truck,236,6,3,M,Manual,6,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,36.2,1,Not eqipped,CTYX10014386,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0057433,0.0765241,341.7516556,0.004399,,0.0015198,,25.6,MPG,,,,,50.359,0
.31208,0.034716,26.774,-0.05918,0.036043,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1M,0,3.956,CTYXT04.0BEM,Truck,236,6,3,M,Manual,6,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,36.2,1,Not eqipped,CTYX10014395,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0214501,0.4640528,464.3173754,0.0187164,,0.0046535,,18.8,MPG,17.8611966,
18.4641648,20.3840792,,50.359,0.31208,0.034716,26.774,-0.05918,0.036043,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1M,1,3.956,CTYXT04.0BEM,Truck,236,6,3,M,Manual,6,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,36.4,1,Not eqipped,CTYX10014479,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0122538,0.1541602,324.8807891,0.0044492,,0.0031448,,27.2,MPG,,,,,35.614,
0.39795,0.032318,14.752,-0.01577,0.034082,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,12-
GN1M,1,3.956,CTYXT04.0BEM,Truck,236,6,3,M,Manual,6,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4500,3.73,36.4,1,Not eqipped,CTYX10014481,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0203225,0.5472967,451.8744676,0.0147169,,0.0045841,,19.5,MPG,18.7625898,
19.0583624,21.1800185,,35.614,0.39795,0.032318,14.752,-0.01577,0.034082,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,0,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4250,4.1,32.8,1,Not eqipped,DTYX10019765,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.004442,0.0326441,283.0500631,0.0043501,,0.0011926,,31.2,MPG,,,,,33.813,0
.38146,0.032586,13.18,0.11752,0.033075,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,0,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4250,4.1,32.8,1,Not eqipped,DTYX10019766,No,21,Federal fuel

2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0180043,0.1167381,392.2540822,0.0280165,,0.0026836,,22.5,MPG,20.4176337,
22.4972235,24.5575747,,33.813,0.38146,0.032586,13.18,0.11752,0.033075,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,0,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4250,4.1,32.8,1,Not eqipped,DTYX10019792,No,90,US06,61,Tier
2 Cert
Gasoline,US06,0.0057479,0.6212868,448.3155279,0.0037426,,,,19.7,MPG,13.9880781,22.27312
87,,,33.813,0.38146,0.032586,13.18,0.11752,0.033075,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,1,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4000,4.1,32.8,1,Not eqipped,DTYX10019793,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0032687,0.0333362,278.4791339,0.0050634,,0.0011728,,31.8,MPG,,,,,31.754,
0.3824,0.03258,13.673,0.09329,0.033418,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,1,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4000,4.1,32.8,1,Not eqipped,DTYX10019794,No,21,Federal fuel
2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0202991,0.1542952,385.3335997,0.0285782,,0.0027111,,22.9,MPG,20.7889321,
22.844276,25.0447365,,31.754,0.3824,0.03258,13.673,0.09329,0.033418,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1A,1,2.694,DTYXT02.7BER,Truck,159,4,10,A,Automatic,4,Y,P,Part-time 4-Wheel
Drive,2,Top gear ration < 1,4000,4.1,32.8,1,Not eqipped,DTYX10019795,No,90,US06,61,Tier
2 Cert
Gasoline,US06,0.0089605,0.9378457,435.8311633,0.0070481,,,,20.2,MPG,14.831743,22.537651
,,,31.754,0.3824,0.03258,13.673,0.09329,0.033418,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,0,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4250,4.1,37.5,1,Not eqipped,DTYX10019796,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0026854,0.0331602,286.288428,0.0039754,,0.0012871,,30.6,MPG,,,,,34.114,0
.34902,0.032947,17.303,0.04793,0.033913,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,0,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4250,4.1,37.5,1,Not eqipped,DTYX10019801,No,90,US06,23,CARB Phase II
Gasoline,US06,0.0091296,0.6200249,447.9154548,0.007591,,,,19.5,MPG,14.381214,21.6808303
,,,34.114,0.34902,0.032947,17.303,0.04793,0.033913,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,0,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4250,4.1,37.5,1,Not eqipped,DTYX10020378,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0102309,0.1958449,380.9535338,0.0149178,,0.0033295,,22.9,MPG,21.7884624,
22.2512488,25.4947471,,34.114,0.34902,0.032947,17.303,0.04793,0.033913,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,1,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4000,4.1,37.5,1,Not eqipped,DTYX91001405,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0053661,0.0753042,286.8208484,0.0020171,,0.0018419,0.01,31,MPG,,,,,31.88
2,0.34807,0.032952,14.934,0.07802,0.033593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,1,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,4000,4.1,37.5,1,Not eqipped,DTYX91001407,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0284253,0.6151934,449.1242971,0.0047905,,0.0048862,0.01,19.8,MPG,14.406
7892,22.1515353,,,31.882,0.34807,0.032952,14.934,0.07802,0.033593,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TACOMA 4WD,13-
TN1M,1,2.694,DTYXT02.7BER,Truck,159,4,8,M,Manual,5,N,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,4000,4.1,37.5,1,Not eqipped,DTYX91001408,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0100255,0.2316197,392.700762,0.013489,,0.0027432,0.01,22.6,MPG,21.434560
8,22.1030088,24.8908899,,31.882,0.34807,0.032952,14.934,0.07802,0.033593,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TOYOTA TUNDRA 2WD,10-
UK3A,4,4.608,ATYXT04.6BEW,Truck,310,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,4.1,25.9,1,Not eqipped,ATYX10002601,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,18.8,MPG,,,,,34.407,0.099,0.042897,13.46,0.1033,0.038689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TOYOTA TUNDRA 2WD,10-
UK3A,4,4.608,ATYXT04.6BEW,Truck,310,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,4.1,25.9,1,Not eqipped,ATYX10002602,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,28.2,MPG,,,,,34.407,0.099,0.042897,13.46,0.1033,0.038689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TOYOTA TUNDRA 2WD,10-
UK3A,5,4.608,ATYXT04.6BEW,Truck,310,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.1,25.9,1,Not eqipped,ATYX10002603,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,18.4,MPG,,,,,34.794,0.37996,0.037863,13.46,0.1033,0.038689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TOYOTA TUNDRA 2WD,10-
UK3A,5,4.608,ATYXT04.6BEW,Truck,310,8,3,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.1,25.9,1,Not eqipped,ATYX10002604,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,27.7,MPG,,,,,34.794,0.37996,0.037863,13.46,0.1033,0.038689,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015325,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0238285,0.215775,524.5673731,0.0125331,,0.0056099,0.01,16.9,MPG,15.93934
39,16.5160238,18.8626249,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015326,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0148796,0.0680902,350.0282956,0.0073174,,0.0034167,0.01,25.4,MPG,,,,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10020869,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,24.5,MPG,,,,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10020870,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,16,MPG,,,,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10020871,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,16.9,MPG,,,,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,12-
SK3A,1,5.663,CTYXT05.7BEW,Truck,381,8,1,A,Automatic,6,Y,R,"2-Wheel Drive, Rear",2,Top

gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10020872,Yes,3,HWFE,61,Tier 2 Cert Gasoline,HWY,,,,,,,,25.3,MPG,,,,,34.566,0.40338,0.038644,10.49,0.1099,0.03894,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,13-GK1A,0,3.956,DTYXT04.0AET,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.91,30.2,1,Not eqipped,DTYX10020676,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0053361,0.022072,315.4740879,0.0059693,,0.0018454,0.01,27.6,MPG,,,,,28.948,0.61625,0.035327,9.06,0.4016,0.03507,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,13-GK1A,0,3.956,DTYXT04.0AET,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.91,30.2,1,Not eqipped,DTYX10020702,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0051804,0.0253231,327.4667574,0.0060117,,0.001853,0.01,26.6,MPG,,,,,28.948,0.61625,0.035327,9.06,0.4016,0.03507,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,13-GK1A,0,3.956,DTYXT04.0AET,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5250,3.91,30.2,1,Not eqipped,DTYX10020770,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.0150159,0.0979645,445.0455042,0.0205062,,0.0032258,0.01,19.5,MPG,18.5253718,19.2169956,20.9803116,,28.948,0.61625,0.035327,9.06,0.4016,0.03507,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,13-GK1A,1,3.956,DTYXT04.0AET,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.91,30.2,1,Not eqipped,DTYX91001403,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0053173,0.01,323.5,0.0057704,,0.002,0.01,27.5,MPG,,,,,26.911,0.61495,0.035327,6.12,0.4678,0.03512,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 2WD,13-GK1A,1,3.956,DTYXT04.0AET,Truck,270,6,1,A,Automatic,5,Y,R,"2-Wheel Drive, Rear",2,Top gear ration < 1,5000,3.91,30.2,1,Not eqipped,DTYX91001404,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0299626,0.1807959,452.2424918,0.0195854,,0.0046564,0.01,19.7,MPG,18.8835947,19.3228274,21.0616522,,26.911,0.61495,0.035327,6.12,0.4678,0.03512,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-SK2A,0,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.5,1,Not eqipped,CTYX10015200,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0193952,0.2109773,560.4281712,0.0127128,,0.0055557,,15.6,MPG,14.5542261,15.3019911,17.1559047,,55.635,0.52734,0.040559,34.247,-0.08782,0.042899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-SK2A,0,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.5,1,Not eqipped,CTYX10015201,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0096502,0.0275959,385.1262576,0.006132,,0.0027597,,22.7,MPG,,,,,55.635,0.52734,0.040559,34.247,-0.08782,0.042899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-SK2A,0,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.5,1,Not eqipped,CTYX10015220,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0093232,0.0489212,384.8121182,0.0041229,,0.0023424,,22.7,MPG,,,,,55.635,0.52734,0.040559,34.247,-0.08782,0.042899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-SK2A,0,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.5,1,Not eqipped,CTYX10015222,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.0172276,0.1874917,556.5503131,0.0132427,,0.0035611,,15.7,MPG,14.9060549,15.2732537,17.3999619,,55.635,0.52734,0.040559,34.247,-0.08782,0.042899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-SK2A,0,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.5,1,Not eqipped,CTYX10015224,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0053215,0.0608299,404.3867603,0.0047736,,0.0021438,,21.7,MPG,,,,,55.635,

0.52734,0.040559,34.247,-0.08782,0.042899,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,1,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015198,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0208097,0.1698889,541.6215247,0.0152786,,0.0037265,,16.3,MPG,15.2539164,
15.9801654,18.0667763,,39.793,0.54745,0.040751,17.557,-0.04312,0.043242,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,1,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015199,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0035521,0.0585982,368.0740979,0.0039514,,0.0014168,,24.1,MPG,,,,,39.793,
0.54745,0.040751,17.557,-0.04312,0.043242,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,1,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10021013,Yes,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,,,,,,,,23.4,MPG,,,,,39.793,0.54745,0.040751,17.557,-
0.04312,0.043242,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,1,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10021014,Yes,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,,,,,,,,16.1,MPG,,,,,39.793,0.54745,0.040751,17.557,-
0.04312,0.043242,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,2,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,4.3,27.5,1,Not eqipped,CTYX10015203,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0178899,0.1869005,538.6599919,0.0123434,,0.0036115,,16.4,MPG,15.3738675,
16.050152,18.1197561,,52.663,0.30695,0.043638,31.729,-0.31682,0.046298,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD,12-
SK2A,2,5.663,CTYXT05.7BEW,Truck,381,8,2,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,5500,4.3,27.5,1,Not eqipped,CTYX10015204,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0068415,0.0398368,376.3958523,0.0037586,,0.0020512,,23.5,MPG,,,,,52.663,
0.30695,0.043638,31.729,-0.31682,0.046298,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,4,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015573,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0118098,0.0317544,364.1309207,0.0045163,,0.0032677,,24.3,MPG,,,,,40.074,
0.54817,0.040728,15.437,0.0157,0.042113,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,4,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10016121,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0295183,0.2207843,546.0561102,0.0120577,,0.0075971,,16.2,MPG,15.1654182,
15.8650584,17.8465863,,40.074,0.54817,0.040728,15.437,0.0157,0.042113,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,5,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015648,No,3,HWFE,38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),HWY,0.0135985,0.0646978,354.0586481,0.0082613,,0.0079564,,17.2,MPG,,,,,40.074
,0.54817,0.040728,15.437,0.0157,0.042113,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,5,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top gear ration < 1,6000,4.3,27.3,1,Not eqipped,CTYX10015653,No,21,Federal fuel 2-day exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0130116,0.1601303,522.8810617,0.0143588,,0.0121351,,11.6,MPG,10.8395658
,11.4156962,12.7816206,,40.074,0.54817,0.040728,15.437,0.0157,0.042113,TWC,Three-way

catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,6,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015572,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0167257,0.0384692,361.9833432,0.0059463,,0.0040674,,24.5,MPG,,,,,37.347,
0.63046,0.039122,13.315,0.11803,0.040612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,6,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015575,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0438316,0.2384261,532.6889327,0.0158873,,0.0104799,,16.6,MPG,15.4683079,
16.3051514,18.2161824,,37.347,0.63046,0.039122,13.315,0.11803,0.040612,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,7,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015649,No,3,HWFE,38,E85 (85% Ethanol
15% EPA Unleaded
Gasoline),HWY,0.0072709,0.0508818,349.1894346,0.0068184,,0.006869,,17.4,MPG,,,,,37.347,
0.63046,0.039122,13.315,0.11803,0.040612,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,TUNDRA 4WD FFV,12-
SK4A,7,5.663,CTYXT05.7XE8,Truck,381,8,1,A,Automatic,6,Y,P,Part-time 4-Wheel Drive,2,Top
gear ration < 1,5500,4.3,27.3,1,Not eqipped,CTYX10015651,No,21,Federal fuel 2-day
exhaust (w/can load),38,E85 (85% Ethanol 15% EPA Unleaded
Gasoline),FTP,0.0158326,0.1333805,512.903377,0.0143541,,0.0122471,,11.9,MPG,10.9403086,
11.6563243,13.1124131,,37.347,0.63046,0.039122,13.315,0.11803,0.040612,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA,12-
GV6A,0,3.456,CTYXT03.5BER,Truck,268,6,12,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,4250,4.4,31.5,1,Not eqipped,CTYX10015242,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.019659,0.1791808,374.2102674,0.0163874,,0.0028938,,23.7,MPG,22.7245362,2
2.5859936,26.7465629,,30.081,0.22593,0.025416,5.744,0.1814,0.024193,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA,12-
GV6A,0,3.456,CTYXT03.5BER,Truck,268,6,12,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,4250,4.4,31.5,1,Not eqipped,CTYX10015243,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0050611,0.038007,244.0512138,0.0245446,,0.0016043,,36.3,MPG,,,,,30.081,0
.22593,0.025416,5.744,0.1814,0.024193,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA,13-
AV2A,0,2.672,DTYXT02.7BEP,Truck,181,4,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,4250,4.36,31,1,Not eqipped,DTYX91001291,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0125376,0.1162325,346.2512591,0.0151665,,0.0025245,0.01,25.7,MPG,24.0579
067,25.0851199,28.4920738,,31.902,0.03223,0.026143,7.823,0.03798,0.024426,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA,13-
AV2A,0,2.672,DTYXT02.7BEP,Truck,181,4,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,4250,4.36,31,1,Not eqipped,DTYX91001292,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0030632,0.0437468,222.5458783,0.0059708,,0.0015918,0.01,39.9,MPG,,,,,31.
902,0.03223,0.026143,7.823,0.03798,0.024426,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA,13-
AV2A,0,2.672,DTYXT02.7BEP,Truck,181,4,2,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,4250,4.36,31,1,Not eqipped,DTYX91001298,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0217819,5.7211403,375.018269,0.0158063,,0.0084202,0.01,23.2,MPG,14.6997
777,27.7886151,,,31.902,0.03223,0.026143,7.823,0.03798,0.024426,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA AWD,12-
GV5A,0,3.456,CTYXT03.5BER,Truck,268,6,11,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4500,4.4,31.5,1,Not eqipped,CTYX10015331,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0063241,0.0436601,252.2302394,0.0251892,,0.0016803,,35.1,MPG,,,,,42.027,

0.02872,0.027383,18.729,-0.0136,0.025928,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA AWD,12-
GV5A,0,3.456,CTYXT03.5BER,Truck,268,6,11,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4500,4.4,31.5,1,Not eqipped,CTYX10015334,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0215395,0.2065193,384.3661546,0.0122991,,0.0028456,,23,MPG,22.2010275,21
.9678296,26.0386188,,42.027,0.02872,0.027383,18.729,-0.0136,0.025928,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA AWD,13-
AV1A,0,2.672,DTYXT02.7BEP,Truck,181,4,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,4.36,31,1,Not eqipped,DTYX10018892,No,90,US06,23,CARB Phase II
Gasoline,US06,0.0410118,5.7295489,370.9030359,0.0210513,,,,23,MPG,14.7933259,27.3271358
,,,37.342,0.0331,0.026597,13.448,0.01063,0.025043,TWC,Three-way catalyst,N,,,N,No
averaging

2013,Toyota,TYX,TOYOTA,VENZA AWD,13-
AV1A,0,2.672,DTYXT02.7BEP,Truck,181,4,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,4.36,31,1,Not eqipped,DTYX10019413,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0038304,0.0344408,220.9986816,0.0051373,,0.001771,,39.6,MPG,,,,,37.342,0
.0331,0.026597,13.448,0.01063,0.025043,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,VENZA AWD,13-
AV1A,0,2.672,DTYXT02.7BEP,Truck,181,4,1,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,4.36,31,1,Not eqipped,DTYX10019414,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0115889,0.1063531,339.8341974,0.0124806,,0.0021533,,25.7,MPG,24.1120336,
24.9992428,28.8760823,,37.342,0.0331,0.026597,13.448,0.01063,0.025043,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1A,0,1.497,CTYXV01.5BEB,Car,106,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,2625,4.24,43.4,1,Not eqipped,CTYX10014388,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0023644,0.0418581,175.8659619,0.0050905,,0.0003815,,50.3,MPG,,,,,20.941,
0.17142,0.019375,3.424,0.22408,0.017844,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1A,0,1.497,CTYXV01.5BEB,Car,106,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,2625,4.24,43.4,1,Not eqipped,CTYX10014721,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0025864,0.0386342,175.0186133,0.0056598,,0.0003502,,50.5,MPG,,,,,20.941,
0.17142,0.019375,3.424,0.22408,0.017844,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1A,0,1.497,CTYXV01.5BEB,Car,106,4,4,A,Automatic,4,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,2625,4.24,43.4,1,Not eqipped,CTYX10015180,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0159002,0.1267427,223.6061942,0.013437,,0.0014,,39.5,MPG,37.6986314,39.1
59474,41.9415295,,20.941,0.17142,0.019375,3.424,0.22408,0.017844,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1M,0,1.497,CTYXV01.5BEB,Car,106,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,2625,3.72,44.6,1,Not eqipped,CTYX10015176,No,35,California fuel 3-day
exhaust,23,CARB Phase II
Gasoline,FTP,0.0129286,0.1362707,222.2331111,0.0141164,,0.0015404,,39.4,MPG,39.0899166,
38.0455382,42.2722491,,19.326,0.18784,0.019997,8.763,-0.00467,0.020771,TWC,Three-way
catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1M,0,1.497,CTYXV01.5BEB,Car,106,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,2625,3.72,44.6,1,Not eqipped,CTYX10015177,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.0018255,0.0395285,169.0826248,0.0081995,,0.0002926,,51.8,MPG,,,,,19.326,
0.18784,0.019997,8.763,-0.00467,0.020771,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1M,1,1.497,CTYXV01.5BEB,Car,106,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear
ration < 1,2625,3.72,44.3,1,Not eqipped,CTYX10015289,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0017392,0.0364786,166.0793413,0.0021766,,0.0003264,,53.3,MPG,,,,,16.973,
0.2294,0.018688,7.032,0.04355,0.019479,TWC,Three-way catalyst,N,,,N,No averaging

2013,Toyota,TYX,TOYOTA,YARIS,12-
NP1M,1,1.497,CTYXV01.5BEB,Car,106,4,2,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,2625,3.72,44.3,1,Not eqipped,CTYX10015571,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0140388,0.1469584,221.1217613,0.0140531,,0.0015144,,40,MPG,39.8940031,38.4787764,43.3756551,,16.973,0.2294,0.018688,7.032,0.04355,0.019479,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005260,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.064,0.035,262,0.002,0.002,0.0588,0.01,38.8,MPG,35.6,37.7,43.2,,29,0.21,0.0168,13,0.079,0.0169,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005260,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.064,0.035,262,0.002,0.002,0.0588,0.01,38.8,MPG,35.6,37.7,43.2,,29,0.21,0.0168,13,0.079,0.0169,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005260,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.064,0.035,262,0.002,0.002,0.0588,0.01,38.8,MPG,35.6,37.7,43.2,,29,0.21,0.0168,13,0.079,0.0169,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005261,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0368,0.142,169,0.0034,0.001,0.0418,0.01,60.1,MPG,,,,,29,0.21,0.0168,13,0.079,0.0169,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005261,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0368,0.142,169,0.0034,0.001,0.0418,0.01,60.1,MPG,,,,,29,0.21,0.0168,13,0.079,0.0169,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,A3,AU353
00261/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,AVWX10005261,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0368,0.142,169,0.0034,0.001,0.0418,0.01,60.1,MPG,,,,,29,0.21,0.0168,13,0.079,0.0169,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,Audi A8 W12,AU641
10375/13,0,6.299,DVWXV06.3UA8,Car,500,12,CEJA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,2.88,39.1,1,Not eqipped,DVWX10019845,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0322,0.57,559,0.016,0.004,0.0098,0.01,15.9,MPG,14.9,15.3,17.9,,50.132,0.39789,0.017926,15.714,0.40281,0.016511,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,Audi A8 W12,AU641
10375/13,0,6.299,DVWXV06.3UA8,Car,500,12,CEJA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,2.88,39.1,1,Not eqipped,DVWX10019846,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0181,0.24,346,0.002,,0.009,0.01,25.7,MPG,,,,,50.132,0.39789,0.017926,15.714,0.40281,0.016511,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,Audi A8 W12,AU641
10375/13,0,6.299,DVWXV06.3UA8,Car,500,12,CEJA,SA,Semi-Automatic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5250,2.88,39.1,1,Not eqipped,DVWX10019847,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0651,0.73,463,0.013,0,0.0199,0.01,19.1,MPG,12.5,22.6,,,50.132,0.39789,0

.017926,16.386,0.44,0.018159,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,Audi A8 W12,AU641
10375/13,0,6.299,DVWXV06.3UA8,Car,500,12,CEJA,SA,Semi-Automatic,8,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,2.88,39.1,1,Not
eqipped,DVWX10019848,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0153,0.4,557,0.029,0.005,0.0055,0.01,15.9,MPG,,,,,50.132,0.39789,0.0179
26,15.714,0.40281,0.016511,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,AUDI,Audi A8 W12,AU641
10375/13,0,6.299,DVWXV06.3UA8,Car,500,12,CEJA,SA,Semi-Automatic,8,Y,A,All Wheel
Drive,2,Top gear ration < 1,5250,2.88,39.1,1,Not eqipped,DVWX10019850,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.329,1.64,651,0.054,,0.0497,0.01,13.7,MPG,11,13.4,17.6,,55.146,0.43768,0.019718
,17.286,0.01971,0.018159,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,33.3,1,Not eqipped,CVWX10016148,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0066,0.21,348,0.013,0.004,0.0021,,25.5,MPG,25.6,23.9,29.3,,31.698,0.1338
4,0.021825,19.311,-0.0864,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,33.3,1,Not eqipped,CVWX10016149,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0006,0.09,214,0.001,,0.0004,,41.5,MPG,,,,,31.698,0.13384,0.021825,19.311
,-0.0864,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,33.3,1,Not eqipped,CVWX10016150,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0029,0.42,448,0.023,0.004,0.0012,,19.8,MPG,,,,,31.698,0.13384,0.021825,
19.311,-0.0864,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,33.3,1,Not eqipped,CVWX10016151,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.2745,3.25,385,0.013,,0.0205,,22.9,MPG,21.2,21.9,26.8,,34.868,0.14722,0.024008,
21.242,-0.0778,0.024328,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.09,33.3,1,Not eqipped,CVWX10016152,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0043,0.56,313,0.009,0.007,0.0008,,28.3,MPG,19.9,32.2,,,31.698,0.13384,0
.021825,19.311,-0.0864,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.09,33.3,1,Not eqipped,CVWX10019436,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.007,0.32,357,0.011,0.001,0.0027,0.01,24.9,MPG,24.9,23.3,28.6,,33.047,0.1
3384,0.022582,14.388,-0.1368,0.02399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.09,33.3,1,Not eqipped,CVWX10019437,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0052,1.54,321,0.012,0.002,0.0023,0.01,27.6,MPG,18.1,32.4,,,33.047,0.133
84,0.022582,14.388,-0.1368,0.02399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.09,33.3,1,Not eqipped,CVWX10019438,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.2083,1.87,388,0.031,,0.0326,0.01,22.9,MPG,21.2,21.9,26.5,,36.352,0.14722,0.024
84,15.827,0.02484,0.026389,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top

gear ration < 1,3500,3.09,33.3,1,Not eqipped,CVWX10019439,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0147,1.42,460,0.024,0.003,0.0057,0.01,19.2,MPG,,,,,33.047,0.13384,0.022582,14.388,-0.1368,0.02399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW 324
10048,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.09,33.3,1,Not eqipped,CVWX10019451,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0007,0.15,216,0.002,,0.0003,0.01,41.2,MPG,,,,,33.047,0.13384,0.022582,14.388,-0.1368,0.02399,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021698,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.097,0.2,272,0.014,0,0.1067,0.01,37.3,MPG,33,38.6,38.6,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021698,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.097,0.2,272,0.014,0,0.1067,0.01,37.3,MPG,33,38.6,38.6,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021698,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.097,0.2,272,0.014,0,0.1067,0.01,37.3,MPG,33,38.6,38.6,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021699,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0356,0.01,184,0.001,,0.0385,0.01,55.3,MPG,,,,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021699,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0356,0.01,184,0.001,,0.0385,0.01,55.3,MPG,,,,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
10220/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,30.3,1,Not eqipped,DVWX10021699,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0356,0.01,184,0.001,,0.0385,0.01,55.3,MPG,,,,,29.225,0.2532,0.020661,7.576,0.18274,0.020335,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 2 0133 /
12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016282,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0102,0.21,388,0.001,0.002,0.0033,,22.9,MPG,,,,,28.101,0.13384,0.021592,10.116,0.02532,0.021592,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 2 0133 /
12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016283,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2982,1.16,374,0.042,,0.0134,,23.7,MPG,22.3,22.4,28.3,,30.911,0.14722,0.023752,11.128,0.02785,0.023752,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 2 0133 /
12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top

gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016284,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0493,0.62,334,0.019,0.002,0.0051,,26.5,MPG,27.8,24.3,31,,28.101,0.13384,0.021592,10.116,0.02532,0.021592,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 2 0133 / 12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016285,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0024,0.13,206,0.001,,0.0011,,43.1,MPG,,,,,28.101,0.13384,0.021592,10.116,0.02532,0.021592,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 2 0133 / 12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016286,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0412,0.7,310,0.016,0.01,0.0103,,28.6,MPG,19.4,33.1,,,28.101,0.13384,0.021592,10.116,0.02532,0.021592,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021642,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0636,0.17,282,0.011,0.001,0.0477,0.01,36,MPG,33.5,35.7,38.8,,29,0.14469,0.022756,7.522,-0.0057,0.023257,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021642,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0636,0.17,282,0.011,0.001,0.0477,0.01,36,MPG,33.5,35.7,38.8,,29,0.14469,0.022756,7.522,-0.0057,0.023257,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021642,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0636,0.17,282,0.011,0.001,0.0477,0.01,36,MPG,33.5,35.7,38.8,,29,0.14469,0.022756,7.522,-0.0057,0.023257,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021643,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0431,0.006,176,0.001,,0.042,0.01,57.8,MPG,,,,,29,0.14469,0.022756,7.522,-0.0057,0.023257,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021643,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0431,0.006,176,0.001,,0.042,0.01,57.8,MPG,,,,,29,0.14469,0.022756,7.522,-0.0057,0.023257,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,0,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,2.92,27.6,1,Not eqipped,DVWX10021643,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0431,0.006,176,0.001,,0.042,0.01,57.8,MPG,,,,,29,0.14469,0.022756,7.522,-0.0057,0.023257,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not eqipped,DVWX10021644,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0778,0.16,281,0.015,0,0.0593,0.01,36.1,MPG,33.5,36.2,38.4,,28.551,0.14469,0.022174,7.237,0.00756,0.022698,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324 20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not eqipped,DVWX10021644,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm

Sulfur,FTP,0.0778,0.16,281,0.015,0,0.0593,0.01,36.1,MPG,33.5,36.2,38.4,,28.551,0.14469,
0.022174,7.237,0.00756,0.022698,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not eqipped,DVWX10021644,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0778,0.16,281,0.015,0,0.0593,0.01,36.1,MPG,33.5,36.2,38.4,,28.551,0.14469,
0.022174,7.237,0.00756,0.022698,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not
eqipped,DVWX10021645,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0355,0.01,175,0.001,,0.0402,0.01,58.1,MPG,,,,,28.551,0.14469,0.022174,7.23
7,0.00756,0.022698,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not
eqipped,DVWX10021645,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0355,0.01,175,0.001,,0.0402,0.01,58.1,MPG,,,,,28.551,0.14469,0.022174,7.23
7,0.00756,0.022698,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324
20168/13,1,1.968,DVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.92,27.6,1,Not
eqipped,DVWX10021645,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0355,0.01,175,0.001,,0.0402,0.01,58.1,MPG,,,,,28.551,0.14469,0.022174,7.23
7,0.00756,0.022698,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Beetle,VW324-1-0132,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,3.5,31,1,Not eqipped,CVWX10014289,No,21,Federal fuel 2-day exhaust (w/can
load),61,Tier 2 Cert
Gasoline,FTP,0.0444,0.57,322,0.0218,,0.0025,0.01,27.5,MPG,26.2,26.8,30.1,,28.101,0.2929
9,0.020952,1.798,0.46662,0.017984,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Beetle,VW324-1-0132,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,3.5,31,1,Not eqipped,CVWX10014290,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0018,0.1,227,0.0004,,0.0008,0.01,39.1,MPG,,,,,28.101,0.29299,0.020952,1.
798,0.46662,0.017984,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Beetle,VW324-1-0132,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,3.5,31,1,Not eqipped,CVWX10014291,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0275,0.38,329,0.0212,,,,27,MPG,18.7,30.8,,,28.101,0.29299,0.020952,1.79
8,0.46662,0.017984,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Beetle,VW324-1-0132,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,3.5,31,1,Not eqipped,CVWX10014292,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0073,0.09,358,0.0024,,,,24.8,MPG,,,,,28.101,0.29299,0.020952,1.798,0.46
662,0.017984,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Beetle,VW324-1-0132,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3375,3.5,31,1,Not eqipped,CVWX10014293,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.4038,1.44,364,0.058,,,,24.3,MPG,20.2,24.4,28.4,,30.911,0.32229,0.023047,1.978,
0.51328,0.019782,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-0132,1,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <
1,3500,3.5,31,1,Not eqipped,CVWX10018785,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0058,0.12,401,0.0009,,0.0021,0.01,22.2,MPG,,,,,30.124,0.29299,0.021243,
1.124,0.2315,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-0132,1,2.48,CVWXV02.5U35,Car,170,5,CBTA-
M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration <

1,3500,3.5,31,1,Not eqipped,CVWX10018786,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0631,0.64,334,0.0276,,0.0064,0.01,26.6,MPG,25.9,25.6,29.2,,30.124,0.29299,0.021243,1.124,0.2315,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-0132,1,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018787,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0119,0.2,236,0.005,,0.005,0.01,37.7,MPG,,,,,30.124,0.29299,0.021243,1.124,0.2315,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-0132,1,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018788,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0273,0.85,352,0.0314,,0.0086,0.01,25.2,MPG,17.3,29.1,,,30.124,0.29299,0.021243,1.124,0.2315,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-0132,1,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018789,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.387,0.97,371,0.0498,,0.0157,0.01,23.9,MPG,19.6,24.3,27.6,,33.137,0.32229,0.023367,1.236,0.02336,0.0242,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,31,1,Not eqipped,CVWX10014298,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0065,0.24,328,0.0044,,0.0022,0.01,27.1,MPG,24.9,26.5,30.1,,28.101,0.29299,0.020952,2.248,0.13022,0.020952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,31,1,Not eqipped,CVWX10014299,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0009,0.18,229,0.0018,,0.0001,0.01,38.8,MPG,,,,,28.101,0.29299,0.020952,2.248,0.13022,0.020952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,31,1,Not eqipped,CVWX10014300,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0044,0.25,329,0.0054,,,,27,MPG,18.8,30.8,,,28.101,0.29299,0.020952,2.248,0.13022,0.020952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,31,1,Not eqipped,CVWX10014301,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3843,1.27,370,0.0275,,,,23.9,MPG,20.6,23.8,27.6,,30.911,0.32229,0.023047,2.023,0.14324,0.023047,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,31,1,Not eqipped,CVWX10014303,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0061,0.71,362,0.0031,,,,24.5,MPG,,,,,28.101,0.29299,0.020952,2.248,0.13022,0.020952,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,2,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018792,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0014,0.1,407,0.0074,,0.0014,0.01,21.9,MPG,,,,,30.124,0.29299,0.021243,-8.565,0.06945,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 / 12,2,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018793,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0064,0.161,338,0.0016,,0.0016,0.01,26.3,MPG,24.8,25.7,29.2,,30.124,0.292

99,0.021243,-8.565,0.06945,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 /
12,2,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018794,No,3,HWFE,61,Tier 2
Cert
Gasoline,HWY,0.0008,0.12,235,0.0017,,0.0001,0.01,37.9,MPG,,,,,30.124,0.29299,0.021243,-
8.565,0.06945,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 /
12,2,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018795,No,90,US06,61,Tier
2 Cert
Gasoline,US06,0.0068,0.19,349,0.0046,,0.0019,0.01,25.5,MPG,17.8,29.1,,,30.124,0.29299,0
.021243,-8.565,0.06945,0.022233,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 /
12,2,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.5,31,1,Not eqipped,CVWX10018796,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.3985,1.06,390,0.0286,,0.0152,0.01,22.7,MPG,17.7,23.3,27.4,,33.137,0.32229,0.02
3367,-7.709,0.02336,0.024456,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-1-240 /
12,3,2.48,CVWXV02.5259,Car,170,5,CBUA-M,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10018797,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.3672,1.086,391,0.0332,,0.0175,0.01,22.7,MPG,18.8,22.9,26.4,,33.631,0.55705,0.0
14661,1.731,0.01466,0.014981,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-2-0132 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016277,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.006,0.263,337,0.0049,0.003,0.0018,,26.3,MPG,26.5,24.3,30.9,,28.101,0.133
84,0.021592,12.414,0.04167,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-2-0132 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016278,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0008,0.152,209,0.0047,0,0.0002,,42.5,MPG,,,,,28.101,0.13384,0.021592,12.
414,0.04167,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-2-0132 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016279,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0108,0.269,311,0.0216,0.006,0.0016,,28.5,MPG,19.4,33,,,28.101,0.13384,0
.021592,12.414,0.04167,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-2-0132 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016280,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.2983,1.2,375,0.0249,,0.0136,,23.7,MPG,22.1,22.5,27.9,,30.911,0.14722,0.023752,
13.655,0.04584,0.023188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Beetle,VW324-2-0132 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3375,3.65,31.7,1,Not eqipped,CVWX10016281,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0057,0.066,387,0.003,0.002,0.0016,,23,MPG,,,,,28.101,0.13384,0.021592,1
2.414,0.04167,0.02108,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,CC,475 1/5
,1,1.984,AVWXV02.03UA,Car,200,4,CCTA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004268,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.02,2.54,307,0.059,,,,28.4,MPG,18.7,33.3,,,36,0.29,0.0165,21,0.123,0.018
5,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,CC,475 1/5
,1,1.984,AVWXV02.03UA,Car,200,4,CCTA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top

gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004269,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0029,0.2,391,0.017,,,,22.6,MPG,,,,,36,0.29,0.0165,21,0.123,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,CC,475 1/5 ,1,1.984,AVWXV02.03UA,Car,200,4,CCTA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004270,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2433,2,367,0.03,,,,24,MPG,22,23,28.4,,40,0.32,0.0181,12,0.344,0.0174,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,CC,475 1/5 ,1,1.984,AVWXV02.03UA,Car,200,4,CCTA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004701,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0191,0.39,328,0.017,0.001,0.0043,0.01,26.9,MPG,26.9,25.6,30.1,,36,0.29,0.0165,21,0.123,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,CC,475 1/5 ,1,1.984,AVWXV02.03UA,Car,200,4,CCTA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004702,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0088,0.12,210,0.002,,0.0038,0.01,42,MPG,,,,,36,0.29,0.0165,21,0.123,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Eos,477 7/10,0,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.14,32.4,1,Not eqipped,AVWX10004317,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.004,1.48,314,0.026,0.057,,,27.9,MPG,18.2,33,,,39,0.29,0.0171,18,0.1,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Eos,477 7/10,0,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.14,32.4,1,Not eqipped,AVWX10004318,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0042,0.19,432,0.028,0.005,,,20.4,MPG,,,,,39,0.29,0.0171,18,0.1,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Eos,477 7/10,0,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.14,32.4,1,Not eqipped,AVWX10004320,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2287,1.95,358,0.017,,,,24.4,MPG,21.9,24.1,28.5,,42,0.32,0.0187,16,0.22,0.0195,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Eos,477 7/10,0,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.14,32.4,1,Not eqipped,AVWX10004528,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0045,0.14,321,0.006,0.004,0.0032,0.01,27.5,MPG,27,26.2,31.1,,39,0.29,0.0171,18,0.1,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Eos,477 7/10,0,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.14,32.4,1,Not eqipped,AVWX10004529,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0003,0.1,213,0.001,,0,0.01,41.5,MPG,,,,,39,0.29,0.0171,18,0.1,0.0178,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Eos,VW465 00127,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CVWX10013962,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0083,0.25,302,0.007,0.002,0.0029,0.01,29.4,MPG,28.7,28.2,32.6,,28.551,0.20546,0.016762,6.07,0.1729,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Eos,VW465 00127,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CVWX10013963,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0013,0.06,199,0.003,,0.001,0.01,44.6,MPG,,,,,28.551,0.20546,0.016762,6.07,0.1729,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Eos,VW465
00127,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CVWX10013964,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2436,1.9,343,0.052,,,,25.8,MPG,24.2,24.8,29.5,,31.406,0.226,0.018438,6.677,0.1
9019,0.018438,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Eos,VW465
00127,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CVWX10013965,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0035,0.39,380,0.005,,,,23.3,MPG,,,,,28.551,0.20546,0.016762,6.07,0.1729
,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Eos,VW465
00127,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CVWX10013966,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0061,0.8,301,0.035,,,,29.4,MPG,19.8,34.1,,,28.551,0.20546,0.016762,6.07
,0.1729,0.016762,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CVWX10014643,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0053,0.18,335,0.008,0.002,0.0019,0.01,26.5,MPG,25.5,25.6,29.3,,32.148,0.
28937,0.020603,8.093,0.24959,0.020661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CVWX10014644,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0013,0.09,214,0.004,,0.0009,0.01,41.5,MPG,,,,,32.148,0.28937,0.020603,8.
093,0.24959,0.020661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not eqipped,CVWX10014645,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2544,2.29,369,0.019,,,,23.9,MPG,21.1,23.5,27.6,,35.362,0.31831,0.022663,8.902,
0.27454,0.022727,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CVWX10014646,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0047,0.31,394,0.012,0.008,,,22.5,MPG,,,,,32.148,0.28937,0.020603,8.093,
0.24959,0.020661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,1,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.14,32.4,1,Not
eqipped,CVWX10014647,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.015,2.68,312,0.02,0.006,,,28.1,MPG,19.9,31.8,,,32.148,0.28937,0.020603,
8.093,0.24959,0.020661,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,2,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,CVWX10019481,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0053,0.18,332,0.007,0.003,0.002,0.01,26.8,MPG,25.9,25.9,29.5,,33.272,0.2
8937,0.02136,9.892,0.17362,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,EOS,VW465
00127,2,1.984,CVWXV02.03PA,Car,200,4,CBFA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not
eqipped,CVWX10019483,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0003,0.12,219,0.001,,0.0001,0.01,40.6,MPG,,,,,33.272,0.28937,0.02136,9.8
92,0.17362,0.022116,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,AVWX10005266,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0863,0.184,262,0.0078,0.003,0.0702,0.01,38.8,MPG,36.6,38.6,41.1,,30,0.13,0
.0181,16,-0.087,-0.0868,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,AVWX10005266,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0863,0.184,262,0.0078,0.003,0.0702,0.01,38.8,MPG,36.6,38.6,41.1,,30,0.13,0
.0181,16,-0.087,-0.0868,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,AVWX10005266,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0863,0.184,262,0.0078,0.003,0.0702,0.01,38.8,MPG,36.6,38.6,41.1,,30,0.13,0
.0181,16,-0.087,-0.0868,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not
eqipped,AVWX10005267,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0348,0.008,165,0.0001,0,0.0351,0.01,61.6,MPG,,,,,30,0.13,0.0181,16,-
0.087,-0.0868,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not
eqipped,AVWX10005267,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0348,0.008,165,0.0001,0,0.0351,0.01,61.6,MPG,,,,,30,0.13,0.0181,16,-
0.087,-0.0868,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not
eqipped,AVWX10005267,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0348,0.008,165,0.0001,0,0.0351,0.01,61.6,MPG,,,,,30,0.13,0.0181,16,-
0.087,-0.0868,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not eqipped,AVWX10005268,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.1049,0.442,260,0.004,0,0.1802,0.01,39,MPG,35.8,37.9,44.4,,30,0.13,0.0181,1
4,-0.206,0.0199,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not eqipped,AVWX10005268,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.1049,0.442,260,0.004,0,0.1802,0.01,39,MPG,35.8,37.9,44.4,,30,0.13,0.0181,1
4,-0.206,0.0199,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not eqipped,AVWX10005268,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.1049,0.442,260,0.004,0,0.1802,0.01,39,MPG,35.8,37.9,44.4,,30,0.13,0.0181,1
4,-0.206,0.0199,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not
eqipped,AVWX10005269,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0308,0.002,164,0.0008,0,0.0301,0.01,62,MPG,,,,,30,0.13,0.0181,14,-
0.206,0.0199,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not
eqipped,AVWX10005269,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0308,0.002,164,0.0008,0,0.0301,0.01,62,MPG,,,,,30,0.13,0.0181,14,-
0.206,0.0199,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00190/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,2.76,27.5,1,Not
eqipped,AVWX10005269,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0308,0.002,164,0.0008,0,0.0301,0.01,62,MPG,,,,,30,0.13,0.0181,14,-
0.206,0.0199,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not eqipped,AVWX10005262,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0675,0.09,255,0.0044,0,0.057,0.01,39.8,MPG,38.3,39.2,43,,29,0.21,0.0168,13
,0.079,0.0169,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not eqipped,AVWX10005262,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0675,0.09,255,0.0044,0,0.057,0.01,39.8,MPG,38.3,39.2,43,,29,0.21,0.0168,13
,0.079,0.0169,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not eqipped,AVWX10005262,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0675,0.09,255,0.0044,0,0.057,0.01,39.8,MPG,38.3,39.2,43,,29,0.21,0.0168,13
,0.079,0.0169,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not
eqipped,AVWX10005263,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0439,0.295,169,0.0007,0,0.0528,0.01,60,MPG,,,,,29,0.21,0.0168,13,0.079,0.0
169,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not
eqipped,AVWX10005263,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0439,0.295,169,0.0007,0,0.0528,0.01,60,MPG,,,,,29,0.21,0.0168,13,0.079,0.0
169,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.04,31.9,1,Not
eqipped,AVWX10005263,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0439,0.295,169,0.0007,0,0.0528,0.01,60,MPG,,,,,29,0.21,0.0168,13,0.079,0.0
169,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not eqipped,AVWX10005264,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0648,0.067,252,0.0036,0,0.0551,0.01,40.3,MPG,38.5,39.6,43.5,,29,0.21,0.016
8,13,-0.019,0.0178,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not eqipped,AVWX10005264,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0648,0.067,252,0.0036,0,0.0551,0.01,40.3,MPG,38.5,39.6,43.5,,29,0.21,0.016
8,13,-0.019,0.0178,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not eqipped,AVWX10005264,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0648,0.067,252,0.0036,0,0.0551,0.01,40.3,MPG,38.5,39.6,43.5,,29,0.21,0.016
8,13,-0.019,0.0178,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not
eqipped,AVWX10005265,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0213,0.04,169,0.0047,0,0.0189,0.01,60.2,MPG,,,,,29,0.21,0.0168,13,-
0.019,0.0178,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not
eqipped,AVWX10005265,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0213,0.04,169,0.0047,0,0.0189,0.01,60.2,MPG,,,,,29,0.21,0.0168,13,-
0.019,0.0178,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Golf,VW360
00191/10,1,1.968,AVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3375,3.04,31.9,1,Not
eqipped,AVWX10005265,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0213,0.04,169,0.0047,0,0.0189,0.01,60.2,MPG,,,,,29,0.21,0.0168,13,-
0.019,0.0178,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004331,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.13,0.6,262,0.004,0.003,0.1092,0.01,38.6,MPG,34.6,39.7,40,,30,0.2,0.0186,17
,-0.03,0.0197,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004331,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.13,0.6,262,0.004,0.003,0.1092,0.01,38.6,MPG,34.6,39.7,40,,30,0.2,0.0186,17
,-0.03,0.0197,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004331,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.13,0.6,262,0.004,0.003,0.1092,0.01,38.6,MPG,34.6,39.7,40,,30,0.2,0.0186,17
,-0.03,0.0197,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004332,No,3,HWFE,19,Cert Diesel 7-15
ppm Sulfur,HWY,0.0486,0.01,175,0,0.001,0.0549,0.01,58.1,MPG,,,,,30,0.2,0.0186,17,-
0.03,0.0197,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004332,No,3,HWFE,19,Cert Diesel 7-15
ppm Sulfur,HWY,0.0486,0.01,175,0,0.001,0.0549,0.01,58.1,MPG,,,,,30,0.2,0.0186,17,-
0.03,0.0197,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Jetta,354
1/10,0,1.968,AVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.76,27.5,1,Not eqipped,AVWX10004332,No,3,HWFE,19,Cert Diesel 7-15
ppm Sulfur,HWY,0.0486,0.01,175,0,0.001,0.0549,0.01,58.1,MPG,,,,,30,0.2,0.0186,17,-
0.03,0.0197,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010747,No,2,CVS 75 and later (w/o can.

load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0721,0.056,261,0.01,0,0.0648,0.01,38.9,MPG,36,39.2,40.8,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010747,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0721,0.056,261,0.01,0,0.0648,0.01,38.9,MPG,36,39.2,40.8,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010747,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0721,0.056,261,0.01,0,0.0648,0.01,38.9,MPG,36,39.2,40.8,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010748,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0444,0.005,172,0.0008,0,0.0444,0.01,59.1,MPG,,,,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010748,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0444,0.005,172,0.0008,0,0.0444,0.01,59.1,MPG,,,,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,386
7/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.04,32,1,Not eqipped,BVWX10010748,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0444,0.005,172,0.0008,0,0.0444,0.01,59.1,MPG,,,,,33.047,0.28937,0.016587,14.837,0.17362,0.016471,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,392
8/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010749,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.066,0.109,262,0.0069,0,0.0501,0.01,38.8,MPG,37.5,37.8,41.9,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,392
8/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010749,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.066,0.109,262,0.0069,0,0.0501,0.01,38.8,MPG,37.5,37.8,41.9,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,392
8/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010749,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.066,0.109,262,0.0069,0,0.0501,0.01,38.8,MPG,37.5,37.8,41.9,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,392
8/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010750,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0544,0,168,0.0006,0,0.0567,0.01,60.5,MPG,,,,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,NOXAD,NOx Adsorber,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,392
8/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010750,No,3,HWFE,19,Cert Diesel 7-15

ppm
Sulfur,HWY,0.0544,0,168,0.0006,0,0.0567,0.01,60.5,MPG,,,,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,3928/11,0,1.968,BVWXV02.0U5N,Car,140,4,CJAA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.76,27.5,1,Not eqipped,BVWX10010750,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0544,0,168,0.0006,0,0.0567,0.01,60.5,MPG,,,,,31.473,0.13384,0.017809,12.882,-0.02087,0.018159,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100464,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.92,32.8,1,Not eqipped,CVWX10013956,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0071,0.24,335,0.01,0.001,0.0027,0.01,26.5,MPG,26.7,24.7,30.4,,30.124,0.19533,0.018566,10.971,-0.06,0.020079,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100464,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.92,32.8,1,Not eqipped,CVWX10013958,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2602,2.45,366,0.016,,,,24.1,MPG,22.7,22.9,28.4,,33.137,0.21486,0.020423,12.068,-0.054,0.022087,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100464,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.92,32.8,1,Not eqipped,CVWX10013959,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0055,0.88,394,0.004,,,,22.5,MPG,,,,,30.124,0.19533,0.018566,10.971,-0.06,0.020079,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100464,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.92,32.8,1,Not eqipped,CVWX10013960,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.005,0.57,295,0.007,,,,30,MPG,20,35.1,,,30.124,0.19533,0.018566,10.971,-0.06,0.020079,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100464,0,1.984,CVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.92,32.8,1,Not eqipped,CVWX10014184,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0006,0.12,195,0.001,,0.0004,0.01,45.5,MPG,,,,,30.124,0.19533,0.018566,10.971,-0.06,0.020079,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100221,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.93,36.6,1,Not eqipped,BVWX10009571,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0261,0.432,307,0.0124,,0.003,0.01,28.8,MPG,28.6,27.2,32.3,,27,0.134,0.0168,-1,0.061,0.0168,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100221,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.93,36.6,1,Not eqipped,BVWX10009572,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.005,0.063,192,0.003,,0.002,0.01,46.2,MPG,,,,,27,0.134,0.0168,-1,0.061,0.0168,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100221,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.93,36.6,1,Not eqipped,BVWX10009573,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0252,1.492,283,0.0035,,,,31.1,MPG,21.3,35.8,,,27,0.134,0.0168,-1,0.061,0.0168,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100221,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.93,36.6,1,Not eqipped,BVWX10009574,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0085,0.473,296,0.0078,,,,29.9,MPG,,,,,27,0.134,0.0168,-1,0.061,0.0168,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100221,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.93,36.6,1,Not eqipped,BVWX10009576,No,11,Cold CO,27,Cold CO Premium (Tier

2),FTP,0.2327,2.903,333,0.0714,,,,26.3,MPG,24.7,25.3,30,,30,0.147,0.0184,-1,0.068,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX10009551,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2057,2.22,357,0.0485,,,,24.6,MPG,20.7,25.3,28.6,,31,0.557,0.0144,6,0.463,0.0145,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX10009552,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0191,0.34,313,0.0021,,,,28.3,MPG,,,,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX91000682,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0365177,4.7176867,329.2928117,0.0049437,,0.0188069,,26.4,MPG,17.732273,30.6218459,,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX91000683,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0405637,0.3768625,314.5502389,0.010862,,0.0080237,0.01,28.1,MPG,26.8737229,27.4867516,30.7440126,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX91000684,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.006916,0.0777642,213.2613901,0.0015132,,0.0044797,0.01,41.7,MPG,,,,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX91000704,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0076229,0.0893754,215.3569144,0.000944,,0.0046248,0.01,41.3,MPG,,,,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta,VW36100250,0,1.984,BVWXV02.0MPI,Car,115,4,CBPA,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3250,3.69,35,1,Not eqipped,BVWX91000717,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0354711,4.6195345,325.9382063,0.0041189,,0.0171611,,26.6,MPG,17.6786601,31.1736856,,,28,0.506,0.0131,5,0.421,0.0132,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta Hybrid,361 730 136/13,0,1.395,DVWXV01.4PHE,Car,150,4,CNLA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.23,29.2,1,Not eqipped,DVWX10021336,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.007,0.178,155,0.0061,0,0.0025,0.01,57.2,MPG,54.3,59.7,,,27.876,0.05426,0.01618,12.695,0.07983,0.014544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta Hybrid,361 730 136/13,0,1.395,DVWXV01.4PHE,Car,150,4,CNLA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.23,29.2,1,Not eqipped,DVWX10021337,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.141,134,0.0077,,0.0007,0.01,66.2,MPG,,,,,27.876,0.05426,0.01618,12.695,0.07983,0.014544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta Hybrid,361 730 136/13,0,1.395,DVWXV01.4PHE,Car,150,4,CNLA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.23,29.2,1,Not eqipped,DVWX10021338,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0015,0.009,201,0.034,0.002,0.0008,0.01,44.2,MPG,27.2,53.7,,,27.876,0.05426,0.01618,12.695,0.07983,0.014544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta Hybrid,361 730 136/13,0,1.395,DVWXV01.4PHE,Car,150,4,CNLA,AMS,Automated Manual- Selectable (e.g.

Automated Manual with paddles),7,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.23,29.2,1,Not eqipped,DVWX10021339,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0046,0.21,220,0.0009,0,0.0041,0.01,40.3,MPG,,,,,27.876,0.05426,0.01618, 12.695,0.07983,0.014544,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Jetta Hybrid,361 730 136/13,0,1.395,DVWXV01.4PHE,Car,150,4,CNLA,AMS,Automated Manual- Selectable (e.g. Automated Manual with paddles),7,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.23,29.2,1,Not eqipped,DVWX10021340,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.1292,3.606,193,0.0089,,0.0234,0.01,45,MPG,28.1,61.9,42.4,,30.664,0.05968,0.017 798,13.964,0.01779,0.015999,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,JETTA SPORTWAGEN,VW351 780169/09,2,1.968,9VWXV02.0U5N,Car,140,,CBEA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,9VWX09009736,No,2,CVS 75 and later (w/o can. load),19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0342124,0.1203921,269.5674712,0.0079391,0.0011405,0.029852,0.01,37.6,MPG,3 5.54,36.77,41.6,,35,0.18,0.0193,14,0.09,0.0191,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,JETTA SPORTWAGEN,VW351 780169/09,2,1.968,9VWXV02.0U5N,Car,140,,CBEA,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.04,32,1,Not eqipped,9VWX09009737,No,3,HWFE,19,Cert Diesel 7-15 ppm Sulfur,HWY,0.0021418,0.0074327,181.1734085,0.0045899,0.0001792,0.0039323,0.01,56.2,MPG, ,,,,35,0.18,0.0193,14,0.09,0.0191,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 01 68 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012412,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0046,0.161,364,0.0168,,,,24.4,MPG,,,,,30.574,0.5064,0.013328,5.845,0.43 768,0.012746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 01 68 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012414,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0061,0.277,331,0.0033,,0.0017,0.01,26.8,MPG,25.1,26.1,30,,30.574,0.5064, 0.013328,5.845,0.43768,0.012746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 01 68 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012415,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0001,0.128,220,0.001,,0.0003,0.01,40.4,MPG,,,,,30.574,0.5064,0.013328,5. 845,0.43768,0.012746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 01 68 / 12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012416,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.004,0.185,318,0.0246,,,,27.9,MPG,17.8,33.3,,,30.574,0.5064,0.013328,5.8 45,0.43768,0.012746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0192 / 12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012391,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0122,0.186,355,0.01,,,,25,MPG,,,,,30.574,0.5064,0.013328,4.271,0.41236, 0.013561,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0192 / 12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012392,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3328,1.795,339,0.0579,,,,25.9,MPG,24,25.1,29.6,,33.631,0.55705,0.014661,4.699, 0.45359,0.014917,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0192 / 12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012393,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0453,0.552,326,0.0387,,0.0035,0.01,27.2,MPG,25.9,26.6,29.8,,30.574,0.506 4,0.013328,4.271,0.41236,0.013561,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0192 /
12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012394,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0115,0.22,216,0.0046,,0.0042,0.01,41.1,MPG,,,,,30.574,0.5064,0.013328,4.271,0.41236,0.013561,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0192 /
12,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,31,1,Not eqipped,CVWX10012395,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0293,0.481,314,0.0273,,,,28.2,MPG,18,33.2,,,30.574,0.5064,0.013328,4.271,0.41236,0.013561,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0204,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,CVWX10012383,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2969,1.684,346,0.0267,,,,25.4,MPG,24.5,24,29.8,,32.89,0.14722,0.018886,6.677,0.1512,0.01767,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0204,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,CVWX10012384,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0307,0.323,340,0.028,,,,26.1,MPG,,,,,29.9,0.13384,0.017169,6.07,0.13745,0.016063,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0204,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,CVWX10012385,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.046,0.616,341,0.0209,,0.0051,0.01,26,MPG,27.2,23.8,29.9,,29.9,0.13384,0.017169,6.07,0.13745,0.016063,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0204,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,CVWX10012386,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0014,0.17,210,0.0024,,0.001,0.01,42.3,MPG,,,,,29.9,0.13384,0.017169,6.07,0.13745,0.016063,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 1 0204,0,2.48,CVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.7,1,Not eqipped,CVWX10012387,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0252,0.642,298,0.0152,,,,29.7,MPG,19.9,34.5,,,29.9,0.13384,0.017169,6.07,0.13745,0.016063,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 2 01 06 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,CVWX10012399,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.3129,1.6,395,0.0212,,,,22.3,MPG,21.1,21,26.6,,32.89,0.14722,0.018886,18.794,-0.0976,0.01991,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 2 01 06 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,CVWX10012400,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0041,0.304,381,0.0059,,,,23.3,MPG,,,,,29.9,0.13384,0.017169,17.085,-0.1085,0.0181,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 2 01 06 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,CVWX10012401,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0057,0.276,338,0.0025,,0.0021,0.01,26.3,MPG,26.4,24.4,30.2,,29.9,0.13384,0.017169,17.085,-0.1085,0.0181,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 2 01 06 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.65,31.9,1,Not eqipped,CVWX10012403,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0046,0.361,298,0.0141,,,,29.8,MPG,19.5,34.9,,,29.9,0.13384,0.017169,17.085,-0.1085,0.0181,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,NMS,VW411 2 01 06 /
12,0,2.48,CVWXV02.5259,Car,170,5,CBUA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top

gear ration < 1,3625,3.65,31.9,1,Not eqipped,CVWX10012554,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0011,0.2,203,0.002,,0,0.01,43.7,MPG,,,,,29.9,0.13384,0.017169,17.085,-0.1085,0.0181,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10206/12,0,3.596,CVWXV03.6U41,Car,280,6,CDVB,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.44,31.1,1,Not eqipped,CVWX10013338,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0058,0,386,0.011,,,,23,MPG,,,,,33.721,0.28937,0.017868,20.606,0.10001,0.017914,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10206/12,0,3.596,CVWXV03.6U41,Car,280,6,CDVB,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.44,31.1,1,Not eqipped,CVWX10013340,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2269,1,429,0.015,,,,20.7,MPG,18.8,19.8,24.9,,37.093,0.31831,0.019654,23.83,0.18701,0.020038,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10206/12,0,3.596,CVWXV03.6U41,Car,280,6,CDVB,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.44,31.1,1,Not eqipped,CVWX10013341,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0235,0.28,372,0.008,0.004,0.0058,0.01,23.9,MPG,23.6,22.3,27.8,,33.721,0.28937,0.017868,20.606,0.10001,0.017914,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10206/12,0,3.596,CVWXV03.6U41,Car,280,6,CDVB,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.44,31.1,1,Not eqipped,CVWX10013342,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0024,0.02,238,0.002,,0.0013,0.01,37.3,MPG,,,,,33.721,0.28937,0.017868,20.606,0.10001,0.017914,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10206/12,0,3.596,CVWXV03.6U41,Car,280,6,CDVB,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,3.44,31.1,1,Not eqipped,CVWX10013343,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0337,0.25,341,0.008,,,,26,MPG,17.7,30,,,33.721,0.28937,0.017868,20.606,0.10001,0.017914,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014253,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0192,0,292,0.017,0.001,,,34.8,MPG,,,,,31.024,0.13384,0.01746,16.287,-0.1186,0.018583,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014253,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0192,0,292,0.017,0.001,,,34.8,MPG,,,,,31.024,0.13384,0.01746,16.287,-0.1186,0.018583,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014253,No,95,SC03,19,Cert Diesel 7-15 ppm Sulfur,SC03,0.0192,0,292,0.017,0.001,,,34.8,MPG,,,,,31.024,0.13384,0.01746,16.287,-0.1186,0.018583,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014254,No,11,Cold CO,19,Cert Diesel 7-15 ppm Sulfur,FTP,0.0232,0.09,303,0.15,,,,33.6,MPG,28,33.1,40.7,,34.126,0.14722,0.019206,17.4,-0.0488,0.019497,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014254,No,11,Cold CO,19,Cert Diesel

7-15 ppm
Sulfur,FTP,0.0232,0.09,303,0.15,,,,33.6,MPG,28,33.1,40.7,,34.126,0.14722,0.019206,17.4,
-0.0488,0.019497,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014254,No,11,Cold CO,19,Cert Diesel
7-15 ppm
Sulfur,FTP,0.0232,0.09,303,0.15,,,,33.6,MPG,28,33.1,40.7,,34.126,0.14722,0.019206,17.4,
-0.0488,0.019497,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014257,No,90,US06,19,Cert Diesel 7-
15 ppm
Sulfur,US06,0.0074,0.03,262,0.005,0.004,,,38.8,MPG,25.7,45.4,,,31.024,0.13384,0.01746,1
6.287,-0.1186,0.018583,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014257,No,90,US06,19,Cert Diesel 7-
15 ppm
Sulfur,US06,0.0074,0.03,262,0.005,0.004,,,38.8,MPG,25.7,45.4,,,31.024,0.13384,0.01746,1
6.287,-0.1186,0.018583,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014257,No,90,US06,19,Cert Diesel 7-
15 ppm
Sulfur,US06,0.0074,0.03,262,0.005,0.004,,,38.8,MPG,25.7,45.4,,,31.024,0.13384,0.01746,1
6.287,-0.1186,0.018583,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014296,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0442,0.19,266,0.028,0,0.0212,0.01,38.2,MPG,34.8,37.3,43.1,,31.024,0.13384,
0.01746,16.287,-0.1186,0.018583,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014296,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0442,0.19,266,0.028,0,0.0212,0.01,38.2,MPG,34.8,37.3,43.1,,31.024,0.13384,
0.01746,16.287,-0.1186,0.018583,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014296,No,2,CVS 75 and later (w/o
can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0442,0.19,266,0.028,0,0.0212,0.01,38.2,MPG,34.8,37.3,43.1,,31.024,0.13384,
0.01746,16.287,-0.1186,0.018583,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014297,No,3,HWFE,19,Cert Diesel 7-15
ppm
Sulfur,HWY,0.0006,0.01,162,0.007,,0.0012,0.01,62.8,MPG,,,,,31.024,0.13384,0.01746,16.28
7,-0.1186,0.018583,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014297,No,3,HWFE,19,Cert Diesel 7-15
ppm
Sulfur,HWY,0.0006,0.01,162,0.007,,0.0012,0.01,62.8,MPG,,,,,31.024,0.13384,0.01746,16.28
7,-0.1186,0.018583,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10207
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3750,2.92,27.6,1,Not eqipped,CVWX10014297,No,3,HWFE,19,Cert Diesel 7-15

ppm
Sulfur,HWY,0.0006,0.01,162,0.007,,0.0012,0.01,62.8,MPG,,,,,31.024,0.13384,0.01746,16.28
7,-0.1186,0.018583,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX10014246,No,95,SC03,19,Cert Diesel 7-15 ppm
Sulfur,SC03,0.0079,0,299,0.007,0.001,,,34,MPG,,,,,31.473,0.28937,0.016005,13.779,0.1186
4,0.016447,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX10014246,No,95,SC03,19,Cert Diesel 7-15 ppm
Sulfur,SC03,0.0079,0,299,0.007,0.001,,,34,MPG,,,,,31.473,0.28937,0.016005,13.779,0.1186
4,0.016447,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX10014246,No,95,SC03,19,Cert Diesel 7-15 ppm
Sulfur,SC03,0.0079,0,299,0.007,0.001,,,34,MPG,,,,,31.473,0.28937,0.016005,13.779,0.1186
4,0.016447,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX10014247,No,11,Cold
CO,19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0113,0.07,304,0.145,0,,,33.5,MPG,27.7,33.5,39.9,,34.621,0.31831,0.017606,1
6.074,0.2069,0.017286,DPF,Diesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX10014247,No,11,Cold
CO,19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0113,0.07,304,0.145,0,,,33.5,MPG,27.7,33.5,39.9,,34.621,0.31831,0.017606,1
6.074,0.2069,0.017286,SCR,Selective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX10014247,No,11,Cold
CO,19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0113,0.07,304,0.145,0,,,33.5,MPG,27.7,33.5,39.9,,34.621,0.31831,0.017606,1
6.074,0.2069,0.017286,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000952,No,90,US06,19,Cert Diesel 7-15 ppm
Sulfur,US06,0.0039883,0.0097038,274.6944017,0.0038278,0.0003642,0.000829,,37,MPG,24.666
6084,43.1821207,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,SCR,Selective
Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000952,No,90,US06,19,Cert Diesel 7-15 ppm
Sulfur,US06,0.0039883,0.0097038,274.6944017,0.0038278,0.0003642,0.000829,,37,MPG,24.666
6084,43.1821207,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,OC,Oxidation
catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000952,No,90,US06,19,Cert Diesel 7-15 ppm
Sulfur,US06,0.0039883,0.0097038,274.6944017,0.0038278,0.0003642,0.000829,,37,MPG,24.666
6084,43.1821207,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,DPF,Diesel
Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000960,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0022395,0.0062493,178.7252354,0.0004665,0.0002315,0.0020449,0.01,56.8,MPG,
,,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,DPF,Diesel Particulate
Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000960,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0022395,0.0062493,178.7252354,0.0004665,0.0002315,0.0020449,0.01,56.8,MPG,
,,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,SCR,Selective Catalytic
Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not
eqipped,CVWX91000960,No,3,HWFE,19,Cert Diesel 7-15 ppm
Sulfur,HWY,0.0022395,0.0062493,178.7252354,0.0004665,0.0002315,0.0020449,0.01,56.8,MPG,
,,,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,OC,Oxidation catalyst,N,,,N,No
averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX91000985,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0459792,0.1767205,267.5933459,0.0221485,0.0004888,0.0168065,0.01,37.9,MPG,
33.8083587,37.8436436,42.1319829,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,OC,Ox
idation catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX91000985,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0459792,0.1767205,267.5933459,0.0221485,0.0004888,0.0168065,0.01,37.9,MPG,
33.8083587,37.8436436,42.1319829,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,DPF,D
iesel Particulate Filter,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,411 10208
/12,0,1.968,CVWXV02.0U4S,Car,140,4,CKRA,SA,Semi-Automatic,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3750,3.04,30.3,1,Not eqipped,CVWX91000985,No,2,CVS 75 and
later (w/o can. load),19,Cert Diesel 7-15 ppm
Sulfur,FTP,0.0459792,0.1767205,267.5933459,0.0221485,0.0004888,0.0168065,0.01,37.9,MPG,
33.8083587,37.8436436,42.1319829,,31.473,0.28937,0.016005,13.779,0.11864,0.016447,SCR,S
elective Catalytic Reduction,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Passat,461
90010/10,1,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not
eqipped,AVWX10004301,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0062,1.33,304,0.022,0.01,,,28.9,MPG,18.6,34.3,,,36,0.29,0.0165,14,0.27,
0.0158,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Passat,461
90010/10,1,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not
eqipped,AVWX10004302,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0039,0.03,382,0.129,0.004,,,23.1,MPG,,,,,36,0.29,0.0165,14,0.27,0.0158,
TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Passat,461
90010/10,1,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004306,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.2216,1.95,376,0.027,,,,23.5,MPG,21.6,22.4,27.8,,40,0.32,0.0181,14,0.25,0.0181,
TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Passat,461
90010/10,1,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not eqipped,AVWX10004699,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0095,0.21,326,0.014,0.002,0.0043,0.01,27.1,MPG,26.1,25.7,31.5,,36,0.29,0
.0165,14,0.27,0.0158,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,Volkswagen,Passat,461
90010/10,1,1.984,AVWXV02.03SA,Car,200,4,CBFA,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,3.14,32.4,1,Not
eqipped,AVWX10004700,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.003,0.19,204,0.007,,0.0028,0.01,43.3,MPG,,,,,36,0.29,0.0165,14,0.27,0.01
58,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,467
3/13,0,1.984,DVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.92,33,1,Not eqipped,DVWX10019088,No,21,Federal fuel 2-day
exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0069,0.24,344,0.007,0.002,0.0024,0.01,25.9,MPG,25.3,24.6,29.3,,33.721,0.
13384,0.017926,9.442,0.03979,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,467
3/13,0,1.984,DVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.92,33,1,Not eqipped,DVWX10019090,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0156,2.61,307,0.014,0.015,0.0053,0.01,28.6,MPG,18.5,34,,,33.721,0.13384
,0.017926,9.442,0.03979,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,467
3/13,0,1.984,DVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.92,33,1,Not eqipped,DVWX10019091,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0047,0.2,410,0.002,0.002,0.0018,0.01,21.7,MPG,,,,,33.721,0.13384,0.0179
26,9.442,0.03979,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,467
3/13,0,1.984,DVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.92,33,1,Not eqipped,DVWX10019092,No,11,Cold CO,27,Cold CO
Premium (Tier
2),FTP,0.2575,2.25,375,0.018,,0.0187,0.01,23.6,MPG,21.8,22.5,27.7,,37.093,0.14722,0.019
718,10.386,0.01971,0.019206,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat,467
3/13,0,1.984,DVWXV02.03PA,Car,200,4,CBFA,M,Manual,6,N,F,"2-Wheel Drive, Front",2,Top
gear ration < 1,3625,2.92,33,1,Not eqipped,DVWX10019140,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0004,0.06,198,0,,0.0002,0.01,45,MPG,,,,,33.721,0.13384,0.017926,9.442,0.
03979,0.01746,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,0,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.45,32.4,1,Not eqipped,9VWX01087095,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0016,0.13,265,0.009,,0.0002,0.01,33.5,MPG,,,,,42,0.47,0.017,0,0.38,0.017
,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,0,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.45,32.4,1,Not eqipped,9VWX01087096,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0644,1.06,382,0.029,,,,23.2,MPG,14.9,27.4,,,42,0.47,0.017,0,0.38,0.017,
,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,0,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.45,32.4,1,Not eqipped,9VWX01087097,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0338,0.29,434,0.029,,0.0041,0.01,20.5,MPG,20.7,19.1,23.4,,42,0.47,0.017,
0,0.38,0.017,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,0,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.45,32.4,1,Not eqipped,9VWX01087099,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.014,0.2,481,0.009,,,,18.5,MPG,,,,,42,0.47,0.017,0,0.38,0.017,,,N,,,N,No
averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,0,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,A,All Wheel Drive,2,Top gear
ration < 1,4250,3.45,32.4,1,Not eqipped,9VWX01087100,No,11,Cold CO,27,Cold CO Premium
(Tier
2),FTP,0.3884,1.49,473,0.065,,,,18.7,MPG,16.5,18.2,22.4,,46,0.52,0.0187,11,0.19,0.0218,
,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,1,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.45,32.4,1,Not eqipped,9VWX01087101,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0304,0.28,419,0.02,,,,21.2,MPG,20.9,19.8,24.8,,39,0.51,0.015,-
3,0.35,0.0161,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,1,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.45,32.4,1,Not
eqipped,9VWX01087102,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0102,0.08,253,0.006,,,,35.1,MPG,,,,,39,0.51,0.015,-
3,0.35,0.0161,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,1,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.45,32.4,1,Not
eqipped,9VWX01087103,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0753,0.49,354,0.021,,,,25,MPG,16.8,29.1,,,39,0.51,0.015,-
3,0.35,0.0161,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,1,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.45,32.4,1,Not
eqipped,9VWX01087104,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0205,0,482,0.007,,,,18.4,MPG,,,,,39,0.51,0.015,-
3,0.35,0.0161,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,PASSAT CC 4MOTION,VW461
90122/09,1,3.596,9VWXV03.6U46,Car,280,,BLV,A,Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,4000,3.45,32.4,1,Not eqipped,9VWX01087105,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.3879,1.5,458,0.058,,,,19.3,MPG,16.9,18.6,23.5,,43,0.56,0.0165,-
14,0.98,0.0277,,,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat wagon,VW462 8-
0062/13,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.92,32.5,1,Not eqipped,DVWX10019083,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0274,0.46,348,0.013,0.001,0.0049,0.01,25.6,MPG,25.8,23.8,29.3,,33.721,0.
13384,0.017926,11.398,-0.0177,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat wagon,VW462 8-
0062/13,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.92,32.5,1,Not
eqipped,DVWX10019085,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0297,2.01,298,0.012,0.005,0.0111,0.01,29.6,MPG,19.3,34.8,,,33.721,0.133
84,0.017926,11.398,-0.0177,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat wagon,VW462 8-
0062/13,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.92,32.5,1,Not
eqipped,DVWX10019086,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.004,0.18,428,0.004,0.002,0.004,0.01,20.8,MPG,,,,,33.721,0.13384,0.01792
6,11.398,-0.0177,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat wagon,VW462 8-
0062/13,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.92,32.5,1,Not eqipped,DVWX10019087,No,11,Cold
CO,27,Cold CO Premium (Tier
2),FTP,0.235,1.92,421,0.022,,0.0185,0.01,21,MPG,21.7,19.4,24.3,,37.093,0.14722,0.019718
,12.538,0.01971,0.020038,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Passat wagon,VW462 8-
0062/13,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3625,2.92,32.5,1,Not
eqipped,DVWX10019139,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0047,0.13,206,0.001,,0.0027,0.01,43.2,MPG,,,,,33.721,0.13384,0.017926,11
.398,-0.0177,0.018217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.54,30.2,1,Not eqipped,DVWX10020405,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0184,0.26,356,0.019,0.001,0.0029,0.01,24.9,MPG,23.6,24.5,27.1,,42.039,0.
47023,0.023746,24.055,0.34363,0.023629,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,0,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.54,30.2,1,Not eqipped,DVWX10020406,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0047,0.08,261,0.001,,0.0025,0.01,34,MPG,,,,,42.039,0.47023,0.023746,24.0
55,0.34363,0.023629,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,1,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.54,30.2,1,Not eqipped,DVWX10020413,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0256,0.45,337,0.021,0.002,0.0056,0.01,26.3,MPG,24.8,26,28.4,,35.52,0.347
25,0.024502,14.163,0.15948,0.025835,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,1,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4000,3.54,30.2,1,Not eqipped,DVWX10020414,No,3,HWFE,61,Tier
2 Cert
Gasoline,HWY,0.0114,0.09,238,0.009,,0.0051,0.01,37.3,MPG,,,,,35.52,0.34725,0.024502,14.
163,0.15948,0.025835,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,2,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.54,30.2,1,Not
eqipped,DVWX10021142,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0096,0.09,237,0.004,,0.0044,0.01,37.5,MPG,,,,,33.721,0.38342,0.022582,9.
667,0.27917,0.022937,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,2,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.54,30.2,1,Not eqipped,DVWX10021143,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0334,0.96,335,0.019,0.003,0.0068,0.01,26.4,MPG,24.8,26.1,28.4,,33.721,0.
38342,0.022582,9.667,0.27917,0.022937,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,3,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.54,30.2,1,Not eqipped,DVWX10021139,No,21,Federal
fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0268,0.33,348,0.017,0.004,0.0044,0.01,25.5,MPG,24.2,25.2,27.2,,40.016,0.
5064,0.021825,19.558,0.35853,0.022652,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Tiguan,VW316
20145,3,1.984,DVWXJ02.03UA,Both,200,4,CCTA/1,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3875,3.54,30.2,1,Not
eqipped,DVWX10021140,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0081,0.07,258,0.002,,0.004,0.01,34.4,MPG,,,,,40.016,0.5064,0.021825,19.5
58,0.35853,0.022652,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Touareg,VW526 10366
/11,0,3.596,BVWXT03.6U76,Truck,280,6,CGRA,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5250,3.7,44.1,1,Not eqipped,BVWX10011232,No,21,Federal fuel 2-day exhaust
(w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0273,0.4,416,0.024,0.006,0.0062,0.01,21.3,MPG,20.4,20.5,23.8,,43,0.123,0
.0279,21,-0.076,0.0294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VOLKSWAGEN,Touareg,VW526 10366
/11,0,3.596,BVWXT03.6U76,Truck,280,6,CGRA,A,Automatic,8,Y,A,All Wheel Drive,2,Top gear
ration < 1,5250,3.7,44.1,1,Not eqipped,BVWX10011233,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0095,0.05,281,0.009,,0.0047,0.01,31.6,MPG,,,,,43,0.123,0.0279,21,-
0.076,0.0294,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not
eqipped,BVWX10009655,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0012,0.18,207,0.0017,,0,0.01,42.8,MPG,,,,,31,0.134,0.0178,6,0.098,0.0172
,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not
eqipped,BVWX10009656,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0048,0.252,294,0.01,,,,30.1,MPG,19.7,34.9,,,31,0.134,0.0178,6,0.098,0.0
172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not
eqipped,BVWX10009657,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2733,0.33,334,0.0033,,,,26.5,MPG,27.1,24.5,23.6,,35,0.147,0.0196,6,0.107,0.018
9,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not
eqipped,BVWX10009658,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0051,0.194,326,0.03,,,,27.2,MPG,,,,,31,0.134,0.0178,6,0.098,0.0172,TWC,
Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not
eqipped,BVWX10009659,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0067,0.175,343,0.0029,,0.0014,0.01,25.9,MPG,26.4,23.7,30.9,,31,0.134,0.0
178,6,0.098,0.0172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,1,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not
eqipped,BVWX10009660,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0057,0.268,338,0.0046,,0.0016,0.01,26.2,MPG,26.8,24.1,30.7,,31,0.134,0.0
178,6,0.098,0.0172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,1,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not
eqipped,BVWX10009661,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0007,0.1,201,0.0013,,0.0003,0.01,44.2,MPG,,,,,31,0.134,0.0178,6,0.098,0.
0172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100218,1,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not
eqipped,BVWX10009662,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0079,0.258,308,0.0171,,,,28.8,MPG,19.7,34.9,,,31,0.134,0.0178,6,0.098,0
.0172,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not
eqipped,BVWX10009668,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.2595,0.912,288,0.0286,,,,30.6,MPG,24.3,26.8,31.1,,37,0.322,0.0188,-
2,0.223,0.0193,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not
eqipped,BVWX10009669,No,95,SC03,61,Tier 2 Cert
Gasoline,SC03,0.0046,0.153,297,0.0004,,,,29.9,MPG,,,,,33,0.293,0.0171,-
2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,0,2.48,BVWXV02.5259,Car,170,5,CBUA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not
eqipped,BVWX91000666,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0113281,0.2475219,331.2091059,0.0015304,,0.0025847,0.01,26.8,MPG,25.4622

246,26.1146591,29.3458189,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,0,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX91000667,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0005653,0.1136983,223.7142113,0.002196,,0.0003433,0.01,39.6,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,0,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX91000668,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0073533,0.4188422,343.1310849,0.0096661,,0.0022123,,25.8,MPG,16.9153308,30.3843877,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,1,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not eqipped,BVWX10009671,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0071,0.179,326,0.0021,,0.0018,0.01,27.2,MPG,25.4,26.7,29.9,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,1,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not eqipped,BVWX10009672,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0007,0.141,208,0.0039,,0.0002,0.01,42.7,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,1,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not eqipped,BVWX10009673,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0067,0.2,327,0.0119,,,,27.1,MPG,18.1,32.5,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,2,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not eqipped,BVWX10009674,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0062,0.238,325,0.0026,,0.0009,0.01,27.3,MPG,25.5,26.7,30.4,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,2,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not eqipped,BVWX10009675,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.002,0.162,208,0.005,,0,0.01,42.6,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100220,2,2.48,BVWXV02.5259,Car,170,5,CBUA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not eqipped,BVWX10009676,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0063,0.15,320,0.0161,,,,27.7,MPG,18.2,32.5,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not eqipped,BVWX10009619,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0463,0.721,334,0.0118,,0.0046,0.01,26.5,MPG,26.7,24.5,31,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not eqipped,BVWX10009621,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0165,0.196,286,0.0152,,,,31,MPG,20,36.5,,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not eqipped,BVWX10009622,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2718,0.788,341,0.039,,,,25.9,MPG,24.5,24.2,31,,35,0.147,0.0196,11,0.402,0.0164,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-

M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not eqipped,BVWX10009623,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.007,0.183,325,0.0054,,,,27.3,MPG,,,,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.39,31.1,1,Not eqipped,BVWX10010049,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0012,0.14,196,0.0023,,0.0001,0.01,45.3,MPG,,,,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not eqipped,BVWX10009624,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0436,0.605,335,0.0146,,0.0051,0.01,26.4,MPG,27.6,24.1,30.8,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not eqipped,BVWX10009625,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0054,0.097,198,0.0023,,0.0021,0.01,44.8,MPG,,,,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100222,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,M,Manual,5,N,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.39,31.1,1,Not eqipped,BVWX10009626,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.0204,0.181,288,0.008,,,,30.8,MPG,21.8,34.9,,,31,0.134,0.0178,10,0.365,0.0149,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX10009630,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0556,0.709,326,0.009,,0.0055,0.01,27.1,MPG,25,26.3,30.7,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX10009631,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0016,0.155,207,0.0034,,0,0.01,42.8,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX10009632,No,90,US06,61,Tier 2 Cert Gasoline,US06,0.022,0.433,330,0.0257,,,,26.8,MPG,17.9,33.5,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX10009633,No,11,Cold CO,27,Cold CO Premium (Tier 2),FTP,0.2586,0.857,296,0.0724,,,,29.8,MPG,24.9,27.1,31.3,,37,0.322,0.0188,-2,0.223,0.0193,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,0,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3625,3.5,32.7,1,Not eqipped,BVWX10009634,No,95,SC03,61,Tier 2 Cert Gasoline,SC03,0.0087,0.183,309,0.0048,,,,28.7,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not eqipped,BVWX10009635,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert Gasoline,FTP,0.0599,0.595,306,0.014,,0.0075,0.01,28.9,MPG,27.5,28.1,31.9,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not eqipped,BVWX10009636,No,3,HWFE,61,Tier 2 Cert Gasoline,HWY,0.0087,0.137,209,0.0036,,0.0042,0.01,42.4,MPG,,,,,33,0.293,0.0171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,1,2.48,BVWXV02.5U35,Car,170,5,CBTA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,3.5,32.7,1,Not
eqipped,BVWX10009637,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0302,0.462,325,0.0196,,,,27.3,MPG,18.2,33.7,,,33,0.293,0.0171,-
2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,2,2.48,BVWXV02.5U35,Car,170,5,CBTA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not
eqipped,BVWX10009638,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0551,0.533,314,0.0186,,0.0047,0.01,28.2,MPG,26.6,27.7,30.9,,33,0.293,0.0
171,-2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,2,2.48,BVWXV02.5U35,Car,170,5,CBTA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not
eqipped,BVWX10009639,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0014,0.14,209,0.0062,,0,0.01,42.5,MPG,,,,,33,0.293,0.0171,-
2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Jetta,VW36100252,2,2.48,BVWXV02.5U35,Car,170,5,CBTA-
M,A,Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3375,3.5,32.7,1,Not
eqipped,BVWX10009640,No,90,US06,61,Tier 2 Cert
Gasoline,US06,0.0243,0.356,325,0.0189,,,,27.3,MPG,18.3,33.5,,,33,0.293,0.0171,-
2,0.203,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Touareg,VW526710023,0,2.995,BVWXT03.0HEV,Truck,333,6,CGFA,A,Auto
matic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.27,26.8,1,Not
eqipped,BVWX91000820,No,3,HWFE,61,Tier 2 Cert
Gasoline,HWY,0.0315916,0.646374,266.6770044,0.0107937,0.003448,0.009932,0.01,33.1,MPG,,
,,,43,0.123,0.0279,-8,-0.166,0.0281,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volkswagen,VWX,VW,Touareg,VW526710023,0,2.995,BVWXT03.0HEV,Truck,333,6,CGFA,A,Auto
matic,8,Y,A,All Wheel Drive,2,Top gear ration < 1,5500,3.27,26.8,1,Not
eqipped,BVWX91000842,No,21,Federal fuel 2-day exhaust (w/can load),61,Tier 2 Cert
Gasoline,FTP,0.0295654,0.2151798,354.2776278,0.0323669,0.0052899,0.0030899,0.01,25.1,MP
G,18.2539427,25.8545144,26.5094065,30.779059,43,0.123,0.0279,-8,-
0.166,0.0281,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5
FWD,201001,0,2.521,AVVXV02.5U2T,Car,227,5,A67:1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.77,33.8,1,Not
eqipped,AVVX10003626,No,90,US06,23,CARB Phase II
Gasoline,US06,0.031,1.69,308,0.014,,,,28.2,MPG,20.5926,31.5858,,,24.92,0.4464,0.01745,6
.45,0.2564,0.018,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5
FWD,201001,0,2.521,AVVXV02.5U2T,Car,227,5,A67:1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.77,33.8,1,Not
eqipped,AVVX10003627,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.009,0.83,393,0.01,,,,22.2,MPG,,,,,24.92,0.4464,0.01745,6.45,0.2564,0.01
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5
FWD,201001,0,2.521,AVVXV02.5U2T,Car,227,5,A67:1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.77,33.8,1,Not eqipped,AVVX10003632,No,35,California
fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.018,0.39,343,0.015,,,,25.5,MPG,25.0807,24.3602,28.6283,,24.92,0.4464,0.0
1745,6.45,0.2564,0.018,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5
FWD,201001,0,2.521,AVVXV02.5U2T,Car,227,5,A67:1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.77,33.8,1,Not
eqipped,AVVX10003634,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.015,0.12,217,0.006,,,,40.4,MPG,,,,,24.92,0.4464,0.01745,6.45,0.2564,0.01
8,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5
FWD,201001,0,2.521,AVVXV02.5U2T,Car,227,5,A67:1,M,Manual,6,N,F,"2-Wheel Drive,
Front",2,Top gear ration < 1,3500,3.77,33.8,1,Not eqipped,AVVX10003635,No,11,Cold
CO,24,Cold CO Regular
(CERT),FTP,0.166,0.81,383,0.032,,,,22.7,MPG,20.418,22.2725,26.0139,,24.92,0.4464,0.0174

5,8.8,0.295,0.0203,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5 FWD,201002,2,2.521,BVVXV02.5U2T,Car,227,5,B67:2,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.27,31.9,1,Not eqipped,BVVX10008537,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.023,0.16,340,0.009,,,,25.8,MPG,24.83,24.86,28.84,,27.47,0.3338,0.01817,8,0.128,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5 FWD,201002,2,2.521,BVVXV02.5U2T,Car,227,5,B67:2,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.27,31.9,1,Not eqipped,BVVX10008538,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.01,0.05,210,0.003,,,,41.8,MPG,,,,,27.47,0.3338,0.01817,8,0.128,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5 FWD,201002,2,2.521,BVVXV02.5U2T,Car,227,5,B67:2,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.27,31.9,1,Not eqipped,BVVX10008539,No,90,US06,23,CARB Phase II Gasoline,US06,0.039,0.44,313,0.016,,,,28,MPG,18.57,32.73,,,27.47,0.3338,0.01817,8,0.128,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5 FWD,201002,2,2.521,BVVXV02.5U2T,Car,227,5,B67:2,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.27,31.9,1,Not eqipped,BVVX10008540,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.019,0.18,387,0.006,,,,22.7,MPG,,,,,27.47,0.3338,0.01817,8,0.128,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C30 T5 FWD,201002,2,2.521,BVVXV02.5U2T,Car,227,5,B67:2,SA,Semi-Automatic,5,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3500,2.27,31.9,1,Not eqipped,BVVX10008541,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.235,0.63,403,0.054,,,,21.7,MPG,18.23,21.58,25.62,,30.52,0.3709,0.02019,11.6,0.147,0.0209,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C70 T5 FWD,201304,0,2.521,DVVXV02.5U2T,Car,227,5,D67:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.27,31.6,1,Not eqipped,DVVX91001423,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.0136114,0.1524109,224.3959778,0.0025004,,0.0056523,0.01,38.9,MPG,,,,,31.72,0.2538,0.01895,11.2,0.139,0.0191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,C70 T5 FWD,201304,0,2.521,DVVXV02.5U2T,Car,227,5,D67:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,2.27,31.6,1,Not eqipped,DVVX91001431,No,25,California fuel 2-day exhaust (w/can load),23,CARB Phase II Gasoline,FTP,0.023886,0.2256608,371.2575094,0.0106189,,0.0044298,0.01,23.5,MPG,22.2397555,22.5023393,26.6961199,,31.72,0.2538,0.01895,11.2,0.139,0.0191,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 AWD,201306,1,2.497,DVVXV02.5U3T,Car,250,5,D61:4,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.2,1,Not eqipped,DVVX10020361,No,90,US06,23,CARB Phase II Gasoline,US06,0.025,0.28,319,0.015,,0.008,,27.4,MPG,18.72,31.6394,,,39.01,0.3543,0.01693,1.8,0.445,0.0147,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 AWD,201306,1,2.497,DVVXV02.5U3T,Car,250,5,D61:4,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.2,1,Not eqipped,DVVX10020362,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.012,0.31,430,0.007,,0.005,,20.3,MPG,,,,,39.01,0.3543,0.01693,1.8,0.445,0.0147,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 AWD,201306,1,2.497,DVVXV02.5U3T,Car,250,5,D61:4,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.2,1,Not eqipped,DVVX10020363,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.101,0.58,421,0.045,,0.0129,,20.7,MPG,16.8698,20.729,25.0119,,43.34,0.3937,0.01881,7.2,0.425,0.0176,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 AWD,201306,1,2.497,DVVXV02.5U3T,Car,250,5,D61:4,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.2,1,Not eqipped,DVVX10020954,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.013,0.26,343,0.015,,0.0037,,25.5,MPG,24.2226,24.4139,28.9286,,39.01,0.3543,0.01693,1.8,0.445,0.0147,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 AWD,201306,1,2.497,DVVXV02.5U3T,Car,250,5,D61:4,SA,Semi-

Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.2,1,Not eqipped,DVVX10020955,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.016,0.24,220,0.011,,0.002,,39.7,MPG,,,,,39.01,0.3543,0.01693,1.8,0.445,0.0147,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 FWD,201305,0,2.497,DVVXV02.5U3T,Car,250,5,D61:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,30,1,Not eqipped,DVVX10020340,No,90,US06,23,CARB Phase II Gasoline,US06,0.022,0.21,311,0.015,,0.0075,,28.1,MPG,18.2567,33.1532,,,32.15,0.1109,0.01999,-0.6,0.135,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 FWD,201305,0,2.497,DVVXV02.5U3T,Car,250,5,D61:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,30,1,Not eqipped,DVVX10020341,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.011,0.27,421,0.007,,0.0051,,20.8,MPG,,,,,32.15,0.1109,0.01999,-0.6,0.135,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 FWD,201305,0,2.497,DVVXV02.5U3T,Car,250,5,D61:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,30,1,Not eqipped,DVVX10020342,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.135,0.59,409,0.037,,0.0144,,21.3,MPG,17.9166,20.8749,26.1921,,35.72,0.1232,0.02221,1.6,0.079,0.022,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 FWD,201305,0,2.497,DVVXV02.5U3T,Car,250,5,D61:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,30,1,Not eqipped,DVVX10020956,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.013,0.16,206,0.011,,0.0048,,42.4,MPG,,,,,32.15,0.1109,0.01999,-0.6,0.135,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T5 FWD,201305,0,2.497,DVVXV02.5U3T,Car,250,5,D61:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,3875,3.2,30,1,Not eqipped,DVVX10020957,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.014,0.21,330,0.018,,0.0037,,26.5,MPG,25.7395,25.2757,29.8413,,32.15,0.1109,0.01999,-0.6,0.135,0.0185,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T6 AWD,201117,2,2.953,DVVXJ03.0U2T,Both,300,6,D90:8,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.3,1,Not eqipped,DVVX10020263,No,11,Cold CO,24,Cold CO Regular (CERT),FTP,0.229,1.12,473,0.018,,0.0297,,18.4,MPG,14.8632,18.2313,22.9358,,55.2,0.3751,0.01943,16.9,0.465,0.0173,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T6 AWD,201117,2,2.953,DVVXJ03.0U2T,Both,300,6,D90:8,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.3,1,Not eqipped,DVVX10020265,No,95,SC03,23,CARB Phase II Gasoline,SC03,0.02,0.71,458,0.002,,0.0092,,19,MPG,,,,,49.68,0.3376,0.01749,10.7,0.453,0.0152,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T6 AWD,201117,2,2.953,DVVXJ03.0U2T,Both,300,6,D90:8,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.3,1,Not eqipped,DVVX10020266,No,90,US06,23,CARB Phase II Gasoline,US06,0.019,0.78,367,0.01,,0.0074,,23.7,MPG,16.4954,27.1924,,,49.68,0.3376,0.01749,10.7,0.453,0.0152,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T6 AWD,201117,2,2.953,DVVXJ03.0U2T,Both,300,6,D90:8,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.3,1,Not eqipped,DVVX10020964,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.02,0.74,390,0.013,,0.0096,,22.4,MPG,21.4848,21.3495,25.5612,,49.68,0.3376,0.01749,10.7,0.453,0.0152,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S60 T6 AWD,201117,2,2.953,DVVXJ03.0U2T,Both,300,6,D90:8,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4000,3.33,31.3,1,Not eqipped,DVVX10020965,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.008,0.38,252,0.008,,0.0101,,34.6,MPG,,,,,49.68,0.3376,0.01749,10.7,0.453,0.0152,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD,201210,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:6,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020296,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.015,0.15,352,0.014,,0.0049,,24.8,MPG,24.3676,23.5674,28.0231,,31.48,0.381,0.0156,-3,0.491,0.0136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD,201210,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:6,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020296,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.015,0.15,352,0.014,,0.0049,,24.8,MPG,24.3676,23.5674,28.0231,,31.48,0.381,0.0156,-3,0.491,0.0136,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD,201210,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:6,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020958,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.003,0.06,216,0.001,,0.0015,,40.5,MPG,,,,,31.48,0.381,0.0156,-3,0.491,0.0136,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD,201210,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:6,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020958,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.003,0.06,216,0.001,,0.0015,,40.5,MPG,,,,,31.48,0.381,0.0156,-3,0.491,0.0136,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD PZEV,201213,0,3.192,DVVXJ03.2S2N,Both,230,6,D94:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020673,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.005,0.35,364,0.003,,0.0017,,24,MPG,23.1927,22.6781,27.7966,,31.48,0.381,0.0156,1.7,0.379,0.0146,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,S80 3.2 FWD PZEV,201213,0,3.192,DVVXJ03.2S2N,Both,230,6,D94:2,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4000,3.33,30.7,1,Not eqipped,DVVX10020674,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.002,0.21,225,0.002,,0,,38.8,MPG,,,,,31.48,0.381,0.0156,1.7,0.379,0.0146,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 AWD PZEV,201309,0,3.192,DVVXJ03.2S2N,Both,230,6,D94:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020349,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.004,0.32,402,0.005,,0.0011,,21.7,MPG,21.1589,20.7851,24.3566,,37.61,0.5865,0.02212,2.8,0.726,0.0198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 AWD PZEV,201309,0,3.192,DVVXJ03.2S2N,Both,230,6,D94:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020350,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.002,0.24,266,0.002,,0,,32.8,MPG,,,,,37.61,0.5865,0.02212,2.8,0.726,0.0198,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 FWD,201211,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:12,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.75,30.8,1,Not eqipped,CVVX10014775,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.024,0.25,374,0.015,,0.0058,,23.3,MPG,22.7924,22.2587,26.377,,40.2,0.1683,0.0256,8.1,0.381,0.0228,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 FWD,201211,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:12,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.75,30.8,1,Not eqipped,CVVX10014775,No,35,California fuel 3-day exhaust,23,CARB Phase II Gasoline,FTP,0.024,0.25,374,0.015,,0.0058,,23.3,MPG,22.7924,22.2587,26.377,,40.2,0.1683,0.0256,8.1,0.381,0.0228,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 FWD,201211,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:12,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.75,30.8,1,Not eqipped,CVVX10014777,No,3,HWFE,23,CARB Phase II Gasoline,HWY,0.005,0.12,247,0.003,,0.0019,,35.4,MPG,,,,,40.2,0.1683,0.0256,8.1,0.381,0.0228,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 3.2 FWD,201211,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:12,SA,Semi-Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,4250,3.75,30.8,1,Not

eqipped,CVVX10014777,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.005,0.12,247,0.003,,0.0019,,35.4,MPG,,,,,40.2,0.1683,0.0256,8.1,0.381,0.0228,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 AWD
3.2,201311,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:14,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020351,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.015,0.17,387,0.017,,0.0044,,22.6,MPG,21.7373,21.7181,25.2939,,37.61,0.5865,0.02212,1.5,0.771,0.0197,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 AWD
3.2,201311,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:14,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020351,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.015,0.17,387,0.017,,0.0044,,22.6,MPG,21.7373,21.7181,25.2939,,37.61,0.5865,0.02212,1.5,0.771,0.0197,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 AWD
3.2,201311,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:14,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020352,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.008,0.12,258,0.013,,0.0035,,33.9,MPG,,,,,37.61,0.5865,0.02212,1.5,0.771,0.0197,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 AWD
3.2,201311,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:14,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,DVVX10020352,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.008,0.12,258,0.013,,0.0035,,33.9,MPG,,,,,37.61,0.5865,0.02212,1.5,0.771,0.0197,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 T6 AWD,201206,0,2.953,CVVXJ03.0U2T,Both,300,6,C90:6,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,CVVX10014748,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.023,0.36,267,0.003,,0.0084,,32.7,MPG,,,,,37.61,0.5865,0.02212,2.9,0.66,0.0203,TWC+OC,Three-way catalyst plus oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC60 T6 AWD,201206,0,2.953,CVVXJ03.0U2T,Both,300,6,C90:6,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4500,3.75,30.8,1,Not eqipped,CVVX10014889,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.017,0.58,402,0.013,,0.0075,,21.7,MPG,20.3656,21.0005,24.4034,,37.61,0.5865,0.02212,2.9,0.66,0.0203,TWC+OC,Three-way catalyst plus oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020291,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.017,0.17,388,0.017,,0.0052,,22.5,MPG,21.5746,21.5853,25.4245,,37.82,0.3062,0.02198,-3,0.514,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020291,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.017,0.17,388,0.017,,0.0052,,22.5,MPG,21.5746,21.5853,25.4245,,37.82,0.3062,0.02198,-3,0.514,0.0188,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020293,No,90,US06,23,CARB Phase II
Gasoline,US06,0.022,0.24,372,0.055,,0.0048,,23.5,MPG,16.2549,26.9268,,,37.82,0.3062,0.02198,-3,0.514,0.0188,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020293,No,90,US06,23,CARB Phase II

Gasoline,US06,0.022,0.24,372,0.055,,0.0048,,23.5,MPG,16.2549,26.9268,,,37.82,0.3062,0.0
2198,-3,0.514,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not
eqipped,DVVX10020294,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.023,0.21,436,0.009,,0.0053,,20,MPG,,,,,37.82,0.3062,0.02198,-
3,0.514,0.0188,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not
eqipped,DVVX10020294,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.023,0.21,436,0.009,,0.0053,,20,MPG,,,,,37.82,0.3062,0.02198,-
3,0.514,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020295,No,11,Cold
CO,24,Cold CO Regular
(CERT),FTP,0.173,0.71,459,0.045,,0.0207,,19,MPG,15.5567,18.926,22.9748,,42.02,0.3402,0.
02442,4.2,0.494,0.0217,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020295,No,11,Cold
CO,24,Cold CO Regular
(CERT),FTP,0.173,0.71,459,0.045,,0.0207,,19,MPG,15.5567,18.926,22.9748,,42.02,0.3402,0.
02442,4.2,0.494,0.0217,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020961,No,3,HWFE,23,CARB
Phase II Gasoline,HWY,0.007,0.09,247,0.004,,0.0037,,35.4,MPG,,,,,37.82,0.3062,0.02198,-
3,0.514,0.0188,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2
AWD,201209,0,3.192,DVVXJ03.2U2N,Both,240,6,D95:10,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,DVVX10020961,No,3,HWFE,23,CARB
Phase II Gasoline,HWY,0.007,0.09,247,0.004,,0.0037,,35.4,MPG,,,,,37.82,0.3062,0.02198,-
3,0.514,0.0188,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2 AWD
PZEV,201217,0,3.192,CVVXJ03.2S2N,Both,230,6,C94:8,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,CVVX10014742,No,35,California
fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.007,0.57,386,0.005,,0.0034,,22.6,MPG,22.084,21.5217,25.5261,,37.82,0.306
2,0.02198,2.1,0.42,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2 AWD
PZEV,201217,0,3.192,CVVXJ03.2S2N,Both,230,6,C94:8,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,CVVX10014743,No,3,HWFE,23,CARB
Phase II
Gasoline,HWY,0.003,0.28,258,0.002,,0.0003,,33.8,MPG,,,,,37.82,0.3062,0.02198,2.1,0.42,0
.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2 AWD
PZEV,201217,0,3.192,CVVXJ03.2S2N,Both,230,6,C94:8,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not eqipped,CVVX10014744,No,11,Cold
CO,24,Cold CO Regular
(CERT),FTP,0.106,0.72,469,0.01,,0.012,,18.6,MPG,15.2905,18.4963,22.4305,,42.02,0.3402,0
.02442,4.2,0.387,0.0227,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2 AWD
PZEV,201217,0,3.192,CVVXJ03.2S2N,Both,230,6,C94:8,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not
eqipped,CVVX10014745,No,90,US06,23,CARB Phase II
Gasoline,US06,0.006,0.38,379,0.011,,0.0019,,23,MPG,16.1611,26.2538,,,37.82,0.3062,0.021
98,2.1,0.42,0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC70 3.2 AWD
PZEV,201217,0,3.192,CVVXJ03.2S2N,Both,230,6,C94:8,SA,Semi-Automatic,6,Y,A,All Wheel
Drive,2,Top gear ration < 1,4250,3.75,33.2,1,Not
eqipped,CVVX10014746,No,95,SC03,23,CARB Phase II
Gasoline,SC03,0.009,0.42,451,0.002,,0.0022,,19.4,MPG,,,,,37.82,0.3062,0.02198,2.1,0.42,
0.0199,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201102,0,3.192,BVVXJ03.2U2N,Both,240,6,B95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.4,1,Not
eqipped,BVVX10008206,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.016,0.36,455,0.023,,0.0048,,19.3,MPG,18.85,18.48,21.38,,65.92,0.2886,0.0
2589,29.9,0.232,0.0257,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201102,0,3.192,BVVXJ03.2U2N,Both,240,6,B95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.4,1,Not
eqipped,BVVX10008207,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.011,0.3,299,0.023,,0.0048,,29.3,MPG,,,,,65.92,0.2886,0.02589,29.9,0.232,
0.0257,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201203,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,CVVX10014757,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.023,0.33,440,0.028,,0.0063,,19.8,MPG,19.4176,18.8416,22.4802,,50.92,0.13
69,0.02672,16.9,0.023,0.0265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201203,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,CVVX10014757,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.023,0.33,440,0.028,,0.0063,,19.8,MPG,19.4176,18.8416,22.4802,,50.92,0.13
69,0.02672,16.9,0.023,0.0265,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201203,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,CVVX10014887,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.007,0.23,278,0.012,,0.0037,,31.4,MPG,,,,,50.92,0.1369,0.02672,16.9,0.023
,0.0265,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 3.2 AWD,201203,0,3.192,CVVXJ03.2U2N,Both,240,6,C95:4,SA,Semi-
Automatic,6,Y,A,All Wheel Drive,2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,CVVX10014887,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.007,0.23,278,0.012,,0.0037,,31.4,MPG,,,,,50.92,0.1369,0.02672,16.9,0.023
,0.0265,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 FWD 3.2,201204,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:2,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,DVVX10017793,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.011,0.2,271,0.029,,0.0054,,32.2,MPG,,,,,44.17,0.2409,0.0263,4,0.41,0.023
9,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 FWD 3.2,201204,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:2,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,DVVX10017793,No,3,HWFE,23,CARB Phase II
Gasoline,HWY,0.011,0.2,271,0.029,,0.0054,,32.2,MPG,,,,,44.17,0.2409,0.0263,4,0.41,0.023
9,OC,Oxidation catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 FWD 3.2,201204,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:2,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,DVVX10017794,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.018,0.27,441,0.022,,0.0051,,19.8,MPG,19.4447,18.7894,22.4227,,44.17,0.24
09,0.0263,4,0.41,0.0239,TWC,Three-way catalyst,N,,,N,No averaging

2013,Volvo,VVX,Volvo,XC90 FWD 3.2,201204,1,3.192,DVVXJ03.2U2N,Both,240,6,D95:2,SA,Semi-
Automatic,6,Y,F,"2-Wheel Drive, Front",2,Top gear ration < 1,5000,4.06,33.3,1,Not
eqipped,DVVX10017794,No,35,California fuel 3-day exhaust,23,CARB Phase II
Gasoline,FTP,0.018,0.27,441,0.022,,0.0051,,19.8,MPG,19.4447,18.7894,22.4227,,44.17,0.24
09,0.0263,4,0.41,0.0239,OC,Oxidation catalyst,N,,,N,No averaging

2013,VPG,TVP,VPG,MV-
1,523MF1163BM000007,0,4.6,BTVPT04.6GS1,Truck,248,8,CTVPV04G00,A,Automatic,4,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,5250,3.45,28.4,1,Not

eqipped,BTVP10022418,No,90,US06,1,Indolene
30,US06,0.01962,2.78243,538.4,0.01958,,0.00758,,16.3,MPG,13.59,19.04,,,37.57,0.7679,0.0
296,13.18,0.1812,0.034,TWC,Three-way catalyst,N,,,N,No averaging

2013,VPG,TVP,VPG,MV-
1,523MF1163BM000007,0,4.6,BTVPT04.6GS1,Truck,248,8,CTVPV04G00,A,Automatic,4,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,5250,3.45,28.4,1,Not
eqipped,BTVP10022419,No,3,HWFE,1,Indolene
30,HWY,0.04706,4.2033,347.3,0.03771,,0.01374,,25,MPG,,,,,37.57,0.7679,0.0296,13.18,0.18
12,0.034,TWC,Three-way catalyst,N,,,N,No averaging

2013,VPG,TVP,VPG,MV-
1,523MF1163BM000007,0,4.6,BTVPT04.6GS1,Truck,248,8,CTVPV04G00,A,Automatic,4,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,5250,3.45,28.4,1,Not
eqipped,BTVP10022464,No,11,Cold CO,27,Cold CO Premium (Tier
2),FTP,0.361,1.78,585.8,0.073,,0.021,,14.9,MPG,12.69,15.47,16.24,,37.57,0.7679,0.0296,1
3.18,0.1812,0.034,TWC,Three-way catalyst,N,,,N,No averaging

2013,VPG,TVP,VPG,MV-
1,523MF1163BM000007,0,4.6,BTVPT04.6GS1,Truck,248,8,CTVPV04G00,A,Automatic,4,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,5250,3.45,28.4,1,Not
eqipped,BTVP10022465,No,95,SC03,1,Indolene
30,SC03,0.0448,2.6816,609.7,0.0137,,0.0169,,14.4,MPG,,,,,37.57,0.7679,0.0296,13.18,0.18
12,0.034,TWC,Three-way catalyst,N,,,N,No averaging

2013,VPG,TVP,VPG,MV-
1,523MF1163BM000007,0,4.6,BTVPT04.6GS1,Truck,248,8,CTVPV04G00,A,Automatic,4,Y,R,"2-
Wheel Drive, Rear",2,Top gear ration < 1,5250,3.45,28.4,1,Not
eqipped,BTVP10022466,No,21,Federal fuel 2-day exhaust (w/can load),1,Indolene
30,FTP,0.055,1.45,529.5,0.03,,0.011,,16.6,MPG,15.57,16.31,18.23,,37.57,0.7679,0.0296,13
.18,0.1812,0.034,TWC,Three-way catalyst,N,,,N,No averaging