ENTER/REPLACE DATA IN GREEN CELLS ONLY!

CALCULATED CAFE, GHG, AND LABEL VALUES

CAFE Values	City	Highway	Combined
✓ A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe	52.5588	62.7809	56.7142
→ 2. Optional Utility Factor Composite MPGe	81.1863	55.0807	66.9148 ←
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	55.6055	46.9936	51.3693

Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles unadjusted)	36.70	36.10	36.4

GHG Values	City	Highway	Combined
Composite CREE without DF (g/mi)	78.0	144.6	108.0
Composite CREE, with DF (g/mi)	**87.0**	**162.0**	**120.8**

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	25.87	25.58	26
All-Electric Range (Miles)	25.66	25.25	25
Total Driving Range (Miles)			470
CD Fuel Economy (MPGe)	56.7442	56.0369	56
CD Electricty Consumption (kW-hr/100mi)	57.5650	58.3440	58
CD Gasoline Consumption (gal/100mi)	0.0	0.0	0.0
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	22.8	24.3	23
CS Fuel Consumption (gal/100mi)	4.4	4.1	4.3
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)			$ 1,550
5-Year Fuel Savings Value ($/5 years)		You SAVE	$ 250
Composite CO2 (g/mi)	180.9	171.6	177
Composite Fuel Economy (MPG)	33.3247	34.5438	34
MPG Rating (on scale of 1-10)			7
GHG Rating (on scale of 1-10)			8
Label Inputs Based on Model Year and Fuel Type (generally these should not be changed)			
Gasoline cost ($/gallon)			$ 2.95
Electricity cost ($/kW-hour)			$ 0.14
Average vehicle 5-year cost ($)			$ 8,000
Average vehicle MPG			28

Average Recharge Time of Test Vehicles	CD_UDDS	CD_Hwy
Avg of Charge Depleting Tests (Hours)	#N/A	#N/A
CD_UDDS/CD_Hwy Weighting	55/45	50/50
Weighted avg of all recharge times (Hours)	#N/A	#N/A

THE FOLLOWING VALUES ARE USED FOR OTHER EPA PUBLICATIONS OR PROGRAMS

Trends Report Values	City	Highway	
Fleet Utility Factor (43/57)	0.6630	0.3580	
Unadjusted Fuel Economy (MPG)	55.6055	46.9936	
Unadjusted GHG (g/mi)	78.0000	144.6000	
Adjusted Fuel Economy (MPG)	37.1940	29.6227	
Adjusted GHG (g/mi)	134.4	247.8	
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda	0.6530	0.6490	
Composite CD/CS Fuel Economy (MPGe)	51.3	57.2	53.8
Fueleconomy.gov Values			
Charge-sustaining Efficiency			MPG
City Rounded Adjusted FE (Guide) - Conventional Fuel			23
Hwy Rounded Adjusted FE (Guide) - Conventional Fuel			24
Combined Rounded Adjusted FE (Guide) - Conventional Fuel			23
City Unrounded Unadjusted FE - Conventional Fuel			30.3
Hwy Unrounded Unadjusted FE - Conventional Fuel			37.4
Combined Unrounded Unadjusted FE - Conventional Fuel			33.1302
City Unrounded Adjusted FE - Conventional Fuel			22.8474
Hwy Unrounded Adjusted FE - Conventional Fuel			24.2990
Combined Unrounded Adjusted FE - Conventional Fuel			23.4786
Charge-sustaining CO2			g/mi
City CO2 Rounded Adjusted			387
Hwy CO2 Rounded Adjusted			364
Combined CO2 Rounded Adjusted			377
*City CO2 Unrounded Unadjusted			292.0
*Hwy CO2 Unrounded Unadjusted			237.0
*Combined CO2 Unrounded Unadjusted			267.2
*City CO2 Unrounded Adjusted			386.8
*Hwy CO2 Unrounded Adjusted			364.4
*Combined CO2 Unrounded Adjusted			376.7
Charge-sustaining Driving Range (Adjusted)			
*Range1 - Model Type Driving Range - Conventional Fuel - City			434
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy			462
Range1 - Model Type Driving Range - Conventional Fuel - Comb			447
Charge-depleting Efficiency		kW-hr/100mi	MPGe
City2 Rounded Adjusted FE (Guide) - Alternative Fuel		58	57
Hwy2 Rounded Adjusted Fuel FE (Guide) - Alternative Fuel		58	56
Comb2 Rounded Adjusted Fuel FE (Guide) - Alternative Fuel		58	56
City2 Unrounded Unadjusted FE - Alternative Fuel		41.6	81.1
Hwy2 Unrounded Unadjusted FE - Alternative Fuel		42.1	80.1
Comb2 Unrounded Unadjusted FE - Alternative Fuel		41.8250	80.6469
City2 Unrounded Adjusted FE - Alternative Fuel		57.5650	56.7442
Hwy2 Unrounded Adjusted FE - Alternative Fuel		58.3440	56.0369
Cmb2 Unrounded Adjusted FE - Alternative Fuel		57.9156	56.4237
Charge-depleting CO2			g/mi
City CO2 Rounded Adjusted			0
Hwy CO2 Rounded Adjusted			0
Comb CO2 Rounded Adjusted			0
*City CO2 Unrounded Unadjusted			0
*Hwy CO2 Unrounded Unadjusted			0
*Comb CO2 Unrounded Unadjusted			0
*City CO2 Unrounded Adjusted			0
*Hwy CO2 Unrounded Adjusted		0	
*Combined CO2 Unrounded Adjusted		0	
Charge-depleting Driving Range (Adjusted)			miles
City Range on Electricity (miles)			25.87
Hwy Range on Electricity (miles)			25.58
Combined Range on Electricity as shown on FE Label (miles)			26
All-Electric Driving Range (Adjusted)			miles
City All-Electric Range			25.66
Hwy All-Electric Range			25.25
Combined All-Electric Range as shown on FE Label (miles)			25.0
Charge-depleting Utility Factors			UF
City Utility Factor (MDIUF)			0.538
Hwy Utility Factor (MDIUF)			0.534
Combined Utility Factor (MDIUF)			0.536
Composite Efficiency (Adjusted)			MPGe
City PHEV Composite MPGe			33
Hwy PHEV Composite MPGe			35
Combined PHEV Composite MPGe			34
Composite CO2 (Adjusted)			g/mi
City CO2-PHEV Composite Rounded Adjusted CO2			181
Hwy CO2-PHEV Composite Rounded Adjusted CO2			172
CO2-PHEV Composite Rounded Adjusted CO2			177
PHEV Total Driving Range (Adjusted)			miles
PHEV Total Driving Range (Adjusted)			470

ENTER BASIC VEHICLE INFORMATION HERE

Vehicle Information	
Model year:	2023
Vehicle category:	LT
Manufacturer name:	Stellantis
Model name:	GRAND CHEROKEE 4XE
Liquid fuel type:	Regular Unleaded
Additional descriptors as needed:	Blended PHEV
Fuel tank size (U.S. gallons):	19
Deterioration Factors for GHG (CREE) Values (All 3 Required)	
Select DF type:	Multiplicative
City DF:	1.114000
Highway DF:	1.114000

This calculator automatically selects the appropriate CAFE value for 2016 and later model year PHEVs. If the PHEV is a dual fuel vehicle for purposes of CAFE, the better of a 50/50 weighting or a utility factor calculation will be selected. The statute requires manufacturers to request use of the utility factor method for 2016 and later PHEVs. Submitting this spreadsheet to EPA, filled out completely and correctly, will constitute such a request. Prior to 2016 the 50/50 weighting option must be used.

Test Set #1

Test Set name (e.g., Eco, Power):	Hybrid mode
Production Volume (projected or actual):	EX 4

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):	30.3000	37.4000
Fuel Economy, 5-Cycle Adjusted (MPG):	22.8474	24.2990
CREE (g/mi):	293.0	237.0
CO2, Unadjusted (g/mi):	292.0	237.0
CO2, 5-Cycle Adjusted (g/mi):	386.8	364.4

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE

	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:	NCRX10073074	NCRX10073052
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):	NCRX10073102	NCRX10073103
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE

	Test Procedure	Test Number
Charge-Sustaining Test (Optional):	US06	NCRX10073104
Charge-Sustaining Test (Optional):	ColdCO	NCRX10073105
Charge-Sustaining Test (Optional):	SC03	NCRX10073057
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
1	7.467	6.619	381.32	0.000	0.00	0	0.0	0	0.0	0
2	7.462	13.119	365.76	0.000	0.00	0	0.0	0	0.0	0
3	7.463	19.772	351.98	0.000	0.00	0	0.0	0	0.0	0
4	7.464	26.569	343.72	0.000	0.00	0	0.0	0	0.0	0
5	7.463	33.038	337.23	0.022	0.44	34	255.4	34	255.4	35
6	7.466	32.793	337.18	0.004	0.34	272	32.6	272	32.6	273
7	7.466	32.085	337.51	0.002	0.38	269	32.9	270	32.9	270
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CWF [3]:	0.865	Recharge energy (AC kilowatt-hours) [4]:	14.8939	Fuel?
SG [3]:	0.742	All-Electric Range (Miles) [3]:	36.651	Yes
NHV [0]:	18488	Transition Cycle [0]:	5	Footer?
		Recharge time (optional)(Hours) [2]:		Yes

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
1	10.258	9.729	373.64	0.000	0.00	0	0.0	0	0.0	0
2	10.265	19.700	352.38	0.000	0.00	0	0.0	0	0.0	0
3	10.261	29.758	338.21	0.000	0.00	0	0.0	0	0.0	0
4	10.258	35.410	332.83	0.017	0.24	122	72.5	122	72.5	122
5	10.260	34.844	337.37	0.002	0.21	249	35.6	249	35.6	249
6	10.261	34.393	337.57	0.000	0.27	242	36.6	242	36.6	242
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CWF [3]:	0.865	Recharge energy (AC kilowatt-hours) [4]:	14.9268	Fuel?
SG [3]:	0.742	All-Electric Range (Miles) [3]:	36.069	Yes
NHV [0]:	18488	Transition Cycle [0]:	4	Footer?
		Recharge time (optional)(Hours) [2]:		Yes

Results from Test Set #1: Hybrid mode

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	52.5588	62.7809	56.7142
2. Optional Utility Factor Composite MPGe [4]	81.1863	55.0807	66.9148
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	55.6055	46.9936	51.3693
GHG Values	**City**	**Highway**	**Combined**
Composite CREE no DF (g/mi) [1]	78.0	144.6	108.0
Composite CREE w/DF (g/mi) [1]	87.0	162.0	120.8
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range adjusted (miles) [0]			26
CD All-Electric Range adjusted (mi) [0]			25
Total Driving Range (Miles) [0]			470
CD Fuel Economy (MPGe) [0]			56
CD Electricity Consumption (kW-hr/100mi) [0]			58
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	22.8474	24.2990	23
CS Fuel Consumption (gal/100mi) [1]	4.4	4.1	4.3
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			1,550
5-Year Fuel Savings Value ($/5 years) [0]			250
Composite CO2 (g/m) [0]			177
Composite Fuel Economy (MPG) [0]			34
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda [3]	0.653	0.649	
Composite CD/CS Fuel Economy (MPGe) [4]	51.2599	57.1662	53.7593
Trends Report Values	**City**	**Highway**	**Combined**
Fleet Utility Factor (43/57) [3]	0.663	0.358	0.5258
Unadjusted Fuel Economy (MPG) [4]	55.6055	46.9936	51.3693
Unadjusted GHG (g/mi) [1]	78.0	144.6	108.0
Adjusted Fuel Economy (MPG) [4]	37.1940	29.6227	33.3574
Adjusted GHG (g/mi) [1]	134.4	247.8	185.4

Test Set #2

Test Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, 5-Cycle Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, 5-Cycle Adjusted (g/mi):		

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE

	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:		
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):		
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE

	Test Procedure	Test Number
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:		Fuel?
SG [3]:		All-Electric Range (Miles) [3]:		No
NHV [0]:		Transition Cycle [0]:		Footer?
		Recharge time (optional)(Hours) [2]:		No

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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CWF [3]:		Recharge energy (AC kilowatt-hours) [4]:		Fuel?
SG [3]:		All-Electric Range (Miles) [3]:		No
NHV [0]:		Transition Cycle [0]:		Footer?
		Recharge time (optional)(Hours) [2]:		No

Results from Test Set #2: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Utility Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-
GHG Values	**City**	**Highway**	**Combined**
Composite CREE no DF (g/mi) [1]	0.0	0.0	0.0
Composite CREE w/DF (g/mi) [1]	0.0	0.0	0.0
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range adjusted (miles) [0]			0
CD All-Electric Range adjusted (mi) [0]			0
Total Driving Range (Miles) [0]			0
CD Fuel Economy (MPGe) [0]			0
CD Electricity Consumption (kW-hr/100mi) [0]			0
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			-
5-Year Fuel Savings Value ($/5 years) [0]			8,000
Composite CO2 (g/m) [0]			0
Composite Fuel Economy (MPG) [0]			0
HOV Lane Values	**City**	**Highway**	**Combined**
MDIUF based on unadjusted Rcda [3]	0.000	0.000	
Composite CD/CS Fuel Economy (MPGe) [4]	0.0000	0.0000	0.0000
Trends Report Values	**City**	**Highway**	**Combined**
Fleet Utility Factor (43/57) [3]	0.000	0.000	0.0000
Unadjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Unadjusted GHG (g/mi) [1]	0.0	0.0	0.0
Adjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Adjusted GHG (g/mi) [1]	0.0	0.0	0.0

Test Set #3

est Set name (e.g., Eco, Power):	
Production Volume (projected or actual):	

ENTER CHARGE-SUSTAINING TEST RESULTS HERE

	City	Highway
Fuel Economy, Unadjusted (MPG):		
Fuel Economy, 5-Cycle Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, 5-Cycle Adjusted (g/mi):		

ENTER CHARGE-DEPLETING AND CHARGE-SUSTAINING TEST NUMBERS HERE

	CD_UDDS	CD_Hwy
Charge-Depleting Test Number:		
	CS_FTP	CS_Hwy
Charge-Sustaining FTP/Hwy (Required):		
Charge-Sustaining FTP/Hwy (Optional):		
Charge-Sustaining FTP/Hwy (Optional):		

ENTER ADDITIONAL CHARGE-SUSTAINING 5-CYCLE TEST NUMBERS HERE

	Test Procedure	Test Number
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		
Charge-Sustaining Test (Optional):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
25.87										
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/ Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	HC-Total	CO	CO2	Mfr Calc Fuel Economy	Mfr Calc CREE	EPA Calc (E0 Gas) Fuel Economy	EPA Calc (E0 Gas) CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	g/mi [3]	g/mi [2]	g/mi [0]	MPG [1]	g/mi [0]	MPG [1]	g/mi [0]
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Results from Test Set #3: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:			
1. Default 50/50 Composite MPGe [4]	-	-	-
2. Optional Utility Factor Composite MPGe [4]	-	-	-
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	-	-	-
GHG Values	**City**	**Highway**	**Combined**
Composite CREE no DF (g/mi) [1]	0.0	0.0	0.0
Composite CREE w/DF (g/mi) [1]	0.0	0.0	0.0
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range adjusted (miles) [0]			0
CD All-Electric Range adjusted (mi) [0]			0
Total Driving Range (Miles) [0]			0
CD Fuel Economy (MPGe) [0]			0
CD Electricity Consumption (kW-hr/100mi) [0]			0
CD Gasoline Consumption (gal/100mi) [0]			0
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	0.0000	0.0000	0
CS Fuel Consumption (gal/100mi) [1]	0.0	0.0	0
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			-
5-Year Fuel Savings Value ($/5 years) [0]			8,000
Composite CO2 (g/m) [0]			0
Composite Fuel Economy (MPG) [0]			0
HOV Lane Values	**City**	**Highway**	**Combined**

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: Hybrid mode

Charge-Depleting (CD) Test Results

DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD d v ng d stance (Rcda), unadjusted (m les) [3]	36.961	36.549
CD d v ng d stance (Rcda), adjusted (m les) [3]	25.873	25.584
CD all-elect c d v ng d stance, unadjusted (m les) [3]	36.651	36.069
CD A l-Elect c Range, adjusted (m) [3]	25.656	25.248
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	15312.6	15350.5
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	57.565	58.344
CD test total DC ene gy consumed, unadjusted (Watt-hou s) [1]	11439.3	12088.4
NEW CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.4560	0.4566
CD ut l t zed total fuel consumpt on ate (55/45 FUF, Rcdc), unadjusted (gal-equ v/m le) [6]	0.009502	0.006226
NEW CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.012136	0.007337
NEW CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.009918	0.011376
CD gasoline consumption (Rcda) unadjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	56.7442	56.0369
CD gasol ne consumpt on ate (Rcda), adjusted (gal/100m) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda) unadjusted (MPGe) [4]	81.0621	80.0537
NEW CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	41.579	42.103
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
NEW CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
NEW CD ut l t zed CO2 (MDIUF, Rcdc), adjusted (g/m) [1]	3.4	16.0
CD ut l t zed CREE (55/45 FUF, Rcdc), unad usted (g/m) [1]	2.7	11.2
NEW CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	4.0	13.9
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Ut l ty Facto (FUF) fo Rcdc [3]	0.743	0.437
MDIUF based on adjusted Rcdc [3]	0.538	0.534
MDIUF based on adjusted Rcdc [3]	0.541	0.573
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.952	0.562
Number of last cycle number with charge-depleting operation (transition cycle) [0]	5	4

Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs

DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD Equivalent All-Electric Range (EAER) Unadjusted (mi) [3]	36.961	36.549
Charge-sustaining driving range adjusted (mi) [3]	434.101	461.681
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.740	0.397
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ 0.081	$ 0.082
CD cost per mile - gasoline ($/mi) [3]	$	$ -
CD total cost per mile ($/mi) [3]	$ 0.081	$ 0.082
CS cost per mile ($/mi) [3]	$ 0.129	$ 0.121
Composite CD/CS cost ($/mi) [3]	$ 0.103	$ 0.100
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2 adjusted (g/mi) [1]	180.9	171.6
Composite CD/CS Fuel Economy adjusted (MPG) [4]	33.3247	34.5438

DETAILED CALCULATIONS — UDDS — Hybrid mode

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoret cal Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	mi es	miles	UF	g/mi	gal/mi equiv	UF	ga /mi equiv	g/mi
1	0.0000	0	6.619	2524.0	3286.2	7.45	0.01305730	0.0131	0.243	0.0000	0.0032	0.0975	0.7000	5.2269	5.215	0.155	0.0000	0.00289126	0.198	0.00369335	0.0000
2	0.0000	0	6.500	2377.4	3095.4	14.90	0.01230743	0.0123	0.183	0.0000	0.0023	0.0918	0.7000	5.2234	10.430	0.126	0.0000	0.00221534	0.159	0.00279554	0.0000
3	0.0000	0	6.653	2341.7	3048.9	22.35	0.01212092	0.0121	0.137	0.0000	0.0017	0.0905	0.7000	5.2241	15.645	0.103	0.0000	0.00178351	0.126	0.00218176	0.0000
4	0.0000	0	6.797	2336.3	3041.8	29.80	0.01209107	0.0121	0.103	0.0000	0.0012	0.0902	0.7000	5.2248	20.860	0.086	0.0000	0.00148547	0.100	0.00172730	0.0000
5	0.0292	254	6.469	2181.5	2840.3	37.25	0.01129162	0.0152	0.077	2.6950	0.0012	0.1135	0.7000	5.2241	26.075	0.071	3.4486	0.00154243	0.080	0.00173795	4.0000
6	0.2290	2031	-0.245	-82.6	-107.5	44.70	-0.00042719	0.0302	0.057	15.5610	0.0017	0.2258	0.7720	5.7637	31.826	0.064	22.5495	0.00250760	0.069	0.00270351	24.4005
7	0.2269	2008	-0.708	-239.0	-311.2	52.15	-0.00123668	0.0292	0.043	11.6100	0.0013	0.2177	0.7690	5.7413	37.555	0.053	18.5398	0.00200964	0.053	0.00200964	18.6083
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DETAILED CALCULATIONS — HFET — Hybrid mode

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electric ty Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 Highway Fleet Ut lity Factor [3]	55/45 City FUF x CREE	55/45 H ghway FUF x Total Consumption	Total Fuel Consumption (gas electric)	5-Cycle Adjustment
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	ga /mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%
1	0.0000	0	9.729	3635.1	4488.6	10.3	0.01298237	0.0130	0.123	0.0000	0.0016	0.1332	0.7000
2	0.0000	0	9.971	3513.6	4338.6	20.6	0.01253997	0.0125	0.117	0.0000	0.0015	0.1287	0.7000
3	0.0000	0	10.058	3401.7	4200.4	30.9	0.01214525	0.0121	0.105	0.0000	0.0013	0.1246	0.7000
4	0.1415	1251	5.652	1881.2	2322.9	41.2	0.00671852	0.0205	0.092	11.2240	0.0019	0.2104	0.7000
5	0.2882	2555	-0.566	-191.0	-235.8	51.5	-0.00068187	0.0274	0.079	19.6710	0.0022	0.2812	0.7088
6	0.2804	2483	-0.451	-152.2	-187.9	61.8	-0.00054330	0.0268	0.067	16.2140	0.0018	0.2748	0.7074
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INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #2: 0

Charge-Depleting (CD) Test Results

DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD d v ng d stance (Rcda), unadjusted (m les) [3]	0.000	0.000
CD d v ng d stance (Rcda), adjusted (m les) [3]	0.000	0.000
CD all-elect c d v ng d stance, unadjusted (m les) [3]	0.000	0.000
CD A l-Elect c Range, adjusted (m) [3]	0.000	0.000
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	0.0	0.0
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	0.000	0.000
CD test total DC ene gy consumed, unadjusted (Watt-hou s) [1]	0.0	0.0
NEW CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.0000	0.0000
CD ut l t zed total fuel consumpt on ate (55/45 FUF, Rcdc), unadjusted (gal-equ v/m le) [6]	0.000000	0.000000
NEW CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
NEW CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD gasoline consumption (Rcda) adjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
CD gasol ne consumpt on ate (Rcda), adjusted (gal/100m) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda) unadjusted (MPGe) [4]	0	0
NEW CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	0	0
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
NEW CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
NEW CD ut l t zed CO2 (MDIUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (55/45 FUF, Rcdc), unad usted (g/m) [1]	0.0	0.0
NEW CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Ut l ty Facto (FUF) fo Rcdc [3]	0.000	0.000
MDIUF based on adjusted Rcdc [3]	0.000	0.000
MDIUF based on adjusted Rcdc [3]	0.000	0.000
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	#VALUE!	#VALUE!
Number of last cycle number with charge-depleting operation (transition cycle) [0]	EOT ERROR	EOT ERROR

Intermediate Results Requiring Charge-Sustaining (CS) Test Results or Other Inputs

DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD Equivalent All-Electric Range (EAER) Unadjusted (mi) [3]	#VALUE!	#VALUE!
Charge-sustaining driving range adjusted (mi) [3]	0.000	0.000
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	#VALUE!	#VALUE!
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ -	$ -
CD cost per mile - gasoline ($/mi) [3]	#VALUE!	#VALUE!
CD total cost per mile ($/mi) [3]	#VALUE!	#VALUE!
CS cost per mile ($/mi) [3]	#VALUE!	#VALUE!
Composite CD/CS cost ($/mi) [3]	#VALUE!	#VALUE!
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2 adjusted (g/mi) [1]	0.0	0.0
Composite CD/CS Fuel Economy adjusted (MPG) [4]	0	0

DETAILED CALCULATIONS — UDDS — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoret cal Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	mi es	miles	UF	g/mi	gal/mi equiv	UF	ga /mi equiv	g/mi
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DETAILED CALCULATIONS — HFET — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electric ty Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 Highway Fleet Ut lity Factor [3]	55/45 City FUF x CREE	55/45 H ghway FUF x Total Consumption	Total Fuel Consumption (gas electric)	5-Cycle Adjustment
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	ga /mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%
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INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #3: 0

Charge-Depleting (CD) Test Results

DRIVING DISTANCE VALUES	CITY	HIGHWAY
CD d v ng d stance (Rcda), unadjusted (m les) [3]	0.000	0.000
CD d v ng d stance (Rcda), adjusted (m les) [3]	0.000	0.000
CD all-elect c d v ng d stance, unadjusted (m les) [3]	0.000	0.000
CD A l-Elect c Range, adjusted (m) [3]	0.000	0.000
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC elect c ty consumpt on (Rcdc), unadjusted (Watt-hou s) [1]	0.0	0.0
CD AC elect c ty consumpt on ate (Rcda), adjusted (kW-h /100m) [3]	0.000	0.000
CD test total DC ene gy consumed, unadjusted (Watt-hou s) [1]	0.0	0.0
NEW CD Rcda total fuel consumpt on (Rcda), unadjusted (gal equ v) [4]	0.0000	0.0000
CD ut l t zed total fuel consumpt on ate (55/45 FUF, Rcdc), unadjusted (gal-equ v/m le) [6]	0.000000	0.000000
NEW CD ut l t zed total fuel consumpt on ate (43/57 FUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
NEW CD ut l t zed total fuel consumpt on ate (MDIUF, Rcdc), adjusted (gal-equ v/m le) [6]	0.000000	0.000000
CD gasoline consumption (Rcda) adjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	0.0000	0.0000
CD gasol ne consumpt on ate (Rcda), adjusted (gal/100m) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda) unadjusted (MPGe) [4]	0	0
NEW CD AC electricity consumption rate (Rcda) unadjusted (kW-hr/100mi) [3]	0	0
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 em ss ons ate (Rcda), unadjusted (g/m) [1]	0.0	0.0
NEW CD CO2 emissions rate (Rcda) adjusted (g/mi) [1]	0.0	0.0
NEW CD ut l t zed CO2 (MDIUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
CD ut l t zed CREE (55/45 FUF, Rcdc), unad usted (g/m) [1]	0.0	0.0
NEW CD ut l t zed CREE (43/57 FUF, Rcdc), adjusted (g/m) [1]	0.0	0.0
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**

DETAILED CALCULATIONS — UDDS — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electricity Consumed [1]	Theoretical Cumulative Cycle D stance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 City Fleet Utility Factor [3]	55/45 City FUF x CREE	55/45 City FUF x Total Consumption	Total Fuel Consumption (gas electr c)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoret cal Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 City Fleet Utility Factor [3]	FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	mi es	miles	UF	g/mi	gal/mi equiv	UF	ga /mi equiv	g/mi
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DETAILED CALCULATIONS — HFET — 0

Cycle No.	Gasoline Consumed	CO2 [0]	Net Amp-Hours Used Per Cycle [3]	DC Electricity Consumed [1]	AC Electric ty Consumed [1]	Theoretical Cumulative Cycle Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas electric)	55/45 Highway Fleet Ut lity Factor [3]	55/45 City FUF x CREE	55/45 H ghway FUF x Total Consumption	Total Fuel Consumption (gas electric)	5-Cycle Adjustment
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	ga /mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%
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Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MD UF x Ad usted CO2	MDIUF x Adjusted Total Fuel Consumpt on	43/57 Highway Fleet Utility Factor [3]	43/57 H ghway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE
miles	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*
7.181	7.21	0.206	0.0000	0.00382053	0.0970	0.00179899	0.0000
7.186	14.42	0.156	0.0000	0.00279462	0.0940	0.00168394	0.0000
7.183	21.63	0.119	0.0000	0.00206469	0.0870	0.00150948	0.0000
7.181	28.84	0.092	16.0343	0.00269581	0.0800	0.00234419	13.9429
7.272	36.14	0.073	25.6464	0.00282296	0.0730	0.00282296	25.6464
7.258	43.43	0.057	19.5000	0.00215782	0.0640	0.00242282	21.8948

Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MD UF x Ad usted CO2	MDIUF x Adjusted Total Fuel Consumpt on	43/57 Highway Fleet Utility Factor [3]	43/57 H ghway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE
miles	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*

Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MD UF x Ad usted CO2	MDIUF x Adjusted Total Fuel Consumpt on	43/57 Highway Fleet Utility Factor [3]	43/57 H ghway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE
miles	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*