ENTER/REPLACE DATA IN GREEN CELLS ONLY!

CALCULATED CAFE, GHG, AND LABEL VALUES

CAFE Values	City	Highway	Combined
✓ A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe	47.8233	50.2572	48.8887
→ 2. Optional Utility Factor Composite MPGe	66.8884	41.0668	52.1366 ←
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composity MPGe	47.8696	36.0388	41.7082
Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	31.40	29.00	30.3

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	101.5	202.2	146.8
Composite CREE, with DF (g/mi)	111.3	221.8	161.0

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	22.85	21.00	22
All-Electric Range (Miles)	21.95	20.33	21
Total Driving Range (Miles)			370
CD Fuel Economy (MPGe)	51.8441	45.4886	48.8
CD Electricity Consumption (kW-hr/100mi)	65.2300	71.0215	67.8362
CD Gasoline Consumption (gal/100mi)	0.0	0.0	0.0
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	20.3	19.8	20
CS Fuel Consumption (gal/100mi)	4.9	5.0	5.0
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)			$ 1,700
5-Year Fuel Savings Value ($/5 years)		You SPEND:	$ 1,000
Composite CO2 (g/mi)	221.0	241.4	230
Composite Fuel Economy (MPG)	28.8663	26.6576	28
MPG Rating (on scale of 1-10)			6
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)	$ 2.70
Electricity cost ($/kW-hour)	$ 0.13
Average vehicle 5-year cost ($)	$ 7,500
Average vehicle MPG	27

ENTER BASIC VEHICLE INFORMATION HERE

Vehicle Information	
Model year:	2021
Vehicle category:	LT
Manufacturer name:	FCA US LLC
Model name:	Wrangler PHEV
Liquid fuel type:	Regular Unleaded
Additional descriptors as needed:	Blended PHEV
Fuel tank size (U.S. gallons)	17.2
Deterioration Factors for GHG (CREE) Values (op	Yes
Select the type of DF to apply:	Multiplicative
Enter a single DF for City and Highway:	1.097
Enter a City DF :	
Enter a Highway DF:	
Inputs & Conversions (most of these should not be changed)	
DOE Petroleum Equivalence Factor (PEF):	82049
Watt-hours of energy per gallon of gasoline:	33705
Grams of CO2 per gallon of gasoline/diesel:	8887
Fuel lower heating value (kJ/kg):	43020
Fuel density (kg/gal):	2.805

ERROR AND VALIDATION MESSAGES

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.

THE FOLLOWING VALUES ARE USED FOR OTHER EPA PUBLICATIONS OR PROGRAMS

Trends Report Values	City	Highway	
Fleet Utility Factor (43/57)	0.6700	0.2780	
Unadjusted Fuel Economy (MPG)	47.8696	36.0388	
Unadjusted GHG (g/mi)	101.5000	202.2000	
Adjusted Fuel Economy (MPG)	32.0373	23.2282	
Adjusted GHG (g/mi)	170.7	330.0	
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda	0.6105	0.5860	
Composite CD/CS Fuel Economy (MPGe)	44.6	43.6	44.2

Fueleconomy.gov Values		
Charge-sustaining Efficiency		MPG
City FE (Guide) - Conventional Fuel		20
Hwy FE (Guide) - Conventional Fuel		20
Comb FE (Guide) - Conventional Fuel		20
City Unadj FE - Conventional Fuel		27.6
Hwy Unadj FE - Conventional Fuel		29.8
Comb Unadj FE - Conventional Fuel		28.5484
City Unrd Adj FE - Conventional Fuel		20.3076
Hwy Unrd Adj FE - Conventional Fuel		19.8362
Comb Unrd Adj FE - Conventional Fuel		20.0927
Charge-sustaining CO2		g/mi
City CO2 Rounded Adjusted		436
Hwy CO2 Rounded Adjusted		448
Comb CO2 Rounded Adjusted		441
*City CO2 Unadj		322.0
*Hwy CO2 Unadj		299.0
*Comb CO2 Unadj		311.6
*City CO2 Unrd Adj		435.6
*Hwy CO2 Unrnd Adj		447.8
*Comb CO2 Unrnd Adj		441.1
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		349
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		341
Range1 - Model Type Driving Range - Conventional Fuel - Comb		346
Charge-depleting Efficiency	kW-hr/100mi	MPGe
City2 FE (Guide) - Alternative Fuel	65	52
Hwy2 Fuel FE (Guide) - Alternative Fuel	71	45
Comb2 Fuel FE (Guide) - Alternative Fuel	68	49
City2 Unadj FE - Alternative Fuel	45.9	73.4
Hwy2 Unadj FE - Alternative Fuel	51.9	65.0
Comb2 Unadj FE - Alternative Fuel	48.6000	69.3661
City2 Unrd Adj FE - Alternative Fuel	65.2300	51.8441
Hwy2 Unrd Adj FE - Alternative Fuel	71.0215	45.4886
Cmb2 Unrd Adj FE - Alternative Fuel	67.8362	48.7774
Charge-depleting CO2		g/mi
City CO2 Rounded Adj		0
Hwy CO2 Rounded Adj		0
Comb CO2 Rounded Adj		0
*City CO2 Unadj		0
*Hwy CO2 Unadj		0
*Comb CO2 Unadj		0
*City CO2 Unrd Adj		0
*Hwy CO2 Unrnd Adj		0
*Comb CO2 Unrnd Adj		0
Charge-depleting Driving Range (Adjusted)		miles
City Range on Electricity (miles)		22.85
Hwy Range on Electricity (miles)		21.00
Comb Range on Electricity as shown on FE Label (miles)		22
All-Electric Driving Range (Adjusted)		miles
City All-Electric Range		21.95
Hwy All-Electric Range		20.33
Comb All-Electric Range as shown on FE Label (miles)		21.0
Charge-depleting Utility Factors		UF
City Utility Factor (MDIUF)		0.498
Hwy Utility Factor (MDIUF)		0.472
Comb Utility Factor (MDIUF)		0.487
Composite Efficiency (Adjusted)		MPGe
City PHEV Composite MPGe		29
Hwy PHEV Composite MPGe		27
Comb PHEV Composite MPGe		28
Composite CO2 (Adjusted)		g/mi
City CO2-PHEV Composite Rounded Adjusted Combined CO2		221
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		241
CO2-PHEV Composite Rounded Adjusted Combined CO2		230
PHEV Total Driving Range (Adjusted)		miles
		370

Test Set #1

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

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	27.6	29.8
Fuel Economy, Adjusted (MPG):	20.3076	19.8362
CREE (g/mi):	323	300
CO2, Unadjusted (g/mi):	322	299
CO2, Adjusted (g/mi):	435.6	447.8

20210021013

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	7.47	8.36	378.52	0.00	0.1	0.1
2	7.46	16.77	361.21	0.00	0.1	0.1
3	7.46	25.4	347.92	0.00	0.1	0.1
4	7.46	34.25	339.90	0.00	0.1	0.1
5	7.46	37.42	335.99	37.54	236.2	237.4
6	7.46	37.62	337.00	28.66	310.5	310.9
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31						
32						
33						
34						
35						
Recharge energy (AC kilowatt-hours):						15.075
All-Electric Range (miles):						31.428
Calculated transition cycle: 5				To override transition cycle, enter here--->		

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer

EPA Test: 20210021013 — Vehicle ID: L0JLX9483
Test Record #: D329_202012021013_00162 — Config #: 0

Power Analyzer Data

Cycle	Distance (mi)	Idle Avg Voltage (V)	Watt Hrs (Wh)	Amp Hrs (Ah)	Amp Hr Delta (Ah)	NEC Tol (%)	Soak Time (s)
Phase 1	7.47	383.65	-3119.00	-8.36	-8.36	N/A	551.70
Phase 2	7.46	375.37	-2985.00	-16.77	-8.40	N/A	547.90
Phase 3	7.46	370.05	-2946.00	-25.40	-8.63	N/A	550.50
Phase 4	7.46	366.43	-2949.00	-34.25	-8.85	N/A	549.40
Phase 5	7.46	365.16	-1005.00	-37.42	-3.16	15.12	549.60
Phase 6	7.46	365.06	-34.00	-37.62	-0.19	0.39	356.60
Cumulative	52.20		-13072.00		-37.76		

Results	HC-FID (g/mile)	CO (g/mile)	NO_x (g/mile)	CO_2 (g/mile)	CH_4 (g/mile)	N2O (g/mile)	NMHC (g/mile)	Gasoline MPG (mpg)
Phase 1	0.00	0.00	0.00	0.08	0.00	0.00	0.00	N/A
Phase 2	0.00	0.00	0.00	0.07	0.00	0.00	0.00	N/A
Phase 3	0.00	0.00	0.00	0.06	0.00	0.00	0.00	N/A
Phase 4	0.00	0.00	0.00	0.07	0.00	0.00	0.00	N/A
Phase 5	0.04	0.65	0.02	236.22	0.01	0.00	0.03	37.54
Phase 6	0.00	0.27	0.00	310.51	0.00	0.00	0.00	28.66
Phase 7	0.00	0.31	0.01	314.97	0.00	0.00	0.00	28.25
Weighted	0.01	0.18	0.00	123.06	0.00	0.00	0.00	72.24

Recharge Event Voltage: 239.67
Recharge Event Energy: -15075
Total AmpHr: 63.063

Results

Nom. Voltage (V):	340.00
Amp Hours (Ah):	-37.76
NEC (Wh):	-13072.00
Electric Range (mi):	31.428
AC Recharge Energy (Wh):	
Fuel Mass (kg):	2.029679
Fuel Energy (Wh)	24186.12
First Engine On (Cycle):	1
EOT Start Cycle:	6
EOT End Cycle:	6
EOT NEC Tolerance (%):	0.39
EOT Tolerance Limit (%):	1.00

20210021014

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	10.25	12.98	368.64	0.00	0.1	0.1
2	10.25	26.36	344.63	0.00	0.1	0.1
3	10.25	38.49	330.59	145.96	60.3	61.1
4	10.25	37.46	336.92	27.36	325.3	325.7
5	10.24	37.45	336.87	29.58	301.0	301.3
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35						
Recharge energy (AC kilowatt-hours):						14.9002
All-Electric Range (miles):						28.817
Calculated transition cycle: ERROR				To override transition cycle, enter here--->		3

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer

EPA Test: 20210021014 — Vehicle ID: L0JLX9483
Test Record #: D329_202012080818_00170 — Config #: 0

Power Analyzer Data

Cycle	Distance (mi)	Idle Avg Voltage (V)	Watt Hrs (Wh)	Amp Hrs (Ah)	Amp Hr Delta (Ah)	NEC Tol (%)
Phase 1	10.25	393.06	4745.00	12.98	12.95	N/A
Phase 2	10.25	378.24	4573.00	26.36	13.37	N/A
Phase 3	10.25	369.30	3970.00	38.49	12.12	N/A
Phase 4	10.25	363.43	-361.00	37.46	-1.05	2.88
Phase 5	10.24	365.15	-27.00	37.45	-0.04	0.23
Cumulative	61.49		12872.00		37.32	

Results	HC-FID (g/mile)	CO (g/mile)	NO_x (g/mile)	CO_2 (g/mile)	CH_4 (g/mile)	N2O (g/mile)	NMHC (g/mile)	Gasoline MPG (mpg)
Phase 1	0.00	0.00	0.00	0.06	0.00	0.00	0.00	N/A
Phase 2	0.00	0.00	0.00	0.05	0.00	0.00	0.00	N/A
Phase 3	0.03	0.42	0.01	60.30	0.00	0.00	0.02	145.96
Phase 4	0.02	0.22	0.00	325.33	0.00	0.00	0.02	27.36
Phase 5	0.02	0.17	0.00	300.99	0.00	0.00	0.01	29.58
Phase 6	0.01	0.20	0.00	300.55	0.00	0.00	0.01	29.61
Weighted	0.01	0.17	0.00	164.54	0.00	0.00	0.01	54.06

Recharge Event Voltage: 239.86
Recharge Event Energy: -14900.2
Total AmpHr: 62.297

Results

Nom. Voltage (V):	340.00
Amp Hours (Ah):	37.32
NEC (Wh):	12872.00
Electric Range (mi):	28.817
AC Recharge Energy (Wh):	:
Fuel Mass (kg):	3.195054
Fuel Energy (Wh)	38072.99
First Engine On (Cycle):	1
EOT Start Cycle:	5
EOT End Cycle:	5
EOT NEC Tolerance (%):	0.23
EOT Tolerance Limit (%):	1.00

Test Set #2

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

ENTER CHARGE-SUSTAINING TEST RESULTS HERE	City	Highway
Fuel Economy, Unadjusted (MPG):	27.6	29.8
Fuel Economy, Adjusted (MPG):	20.3076	19.8362
CREE (g/mi):	323	300
CO2, Unadjusted (g/mi):	322	299
CO2, Adjusted (g/mi):	435.6	447.8

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	7.45	8.63	379.07	0	0	0
2	7.45	17.36	360.83	0	0	0
3	7.46	26.15	347.51	0	0	0
4	7.45	35.10	339.33	0	0	0
5	7.46	38.00	335.91	36.6	243	244
6	7.45	38.13	337.06	29.4	303	303
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31						
32						
33						
34						
35						
Recharge energy (AC kilowatt-hours):						14.740
All-Electric Range (miles):						31.283
Calculated transition cycle: 5				To override transition cycle, enter here--->		

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer

EPA Test: 20210021019 — Vehicle ID: L0JLX9483
Test Record #: D329_202101070849_00011 — Config #: 0

Power Analyzer Data

Cycle	Distance (mi)	Idle Avg Voltage (V)	Watt Hrs (Wh)	Amp Hrs (Ah)	Amp Hr Delta (Ah)	NEC Tol (%)	Soak Time (s)
Phase 1	7.45	384.88	3217.00	8.63	8.61	N/A	545.00
Phase 2	7.45	376.15	3024.00	17.36	8.52	N/A	545.90
Phase 3	7.46	370.85	2990.00	26.15	8.77	N/A	546.60
Phase 4	7.45	367.11	2968.00	35.10	8.93	N/A	550.40
Phase 5	7.46	366.07	914.00	38.00	2.89	13.39	553.10
Phase 6	7.45	366.02	8.00	38.13	0.12	0.09	657.00
Cumulative	44.72		13121.00		37.84		

Results

Nom. Voltage (V):	340.00	Power Analyzer ID:	TET1006
Amp Hours (Ah):	37.84	Clamp 1 ID:	100110014
NEC (Wh):	13121.00	Clamp 2 ID:	100408563
Electric Range (mi):	31.283		
AC Recharge Energy (Wh):	-14740.1		
Fuel Mass (kg):	1.284388		
Fuel Energy (Wh)	15305.06		
First Engine On (Cycle):	1		
EOT Start Cycle:	6		
EOT End Cycle:	6		
EOT NEC Tolerance (%):	0.09		
EOT Tolerance Limit (%):	1.00		

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1	10.25	13.06	369.19	0.0	0	0
2	10.25	26.47	344.69	0.0	0	0
3	10.24	39.18	329.92	191.5	46	47
4	10.23	38.11	335.85	27.2	327	328
5	10.25	37.91	336.38	28.9	308	309
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30						
31						
32						
33						
34						
35						
Recharge energy (AC kilowatt-hours):						14.931
All-Electric Range (miles):						29.258
Calculated transition cycle: ERROR				To override transition cycle, enter here--->		3

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer

EPA Test: 20210021018 — Vehicle ID: L0JLX9483
Test Record #: D329_202101080830_00016 — Config #: 0

Power Analyzer Data

Cycle	Distance (mi)	Idle Avg Voltage (V)	Watt Hrs (Wh)	Amp Hrs (Ah)	Amp Hr Delta (Ah)	NEC Tol (%)
Phase 1	10.25	394.81	4781.00	13.06	13.04	N/A
Phase 2	10.25	379.50	4582.00	26.47	13.40	N/A
Phase 3	10.24	370.17	4153.00	39.18	12.70	N/A
Phase 4	10.23	363.60	-373.00	38.11	-1.08	2.96
Phase 5	10.25	365.62	-91.00	37.91	-0.22	0.77
Cumulative	61.46		13031.00		37.82	

Results

Nom. Voltage (V):	340.00	Power Analyzer ID:	TET0006
Amp Hours (Ah):	37.82	Clamp 1 ID:	100110014
NEC (Wh):	13031.00	Clamp 2 ID:	100408563
Electric Range (mi):	29.258		
AC Recharge Energy (Wh):	-14930.5		
Fuel Mass (kg):	3.177325		
Fuel Energy (Wh)	37861.72		
First Engine On (Cycle):	1		
EOT Start Cycle:	5		
EOT End Cycle:	5		
EOT NEC Tolerance (%):	0.77		
EOT Tolerance Limit (%):	1.00		

Test Set #3

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, Adjusted (MPG):		
CREE (g/mi):		
CO2, Unadjusted (g/mi):		
CO2, Adjusted (g/mi):		

ENTER CHARGE-DEPLETING UDDS (CITY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1						
2						
3						
4						
5						
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7						
8						
9						
10						
11						
12						

ENTER CHARGE-DEPLETING HFET (HIGHWAY) DATA HERE

Cycle No.	Cycle/Phase Measured Distance	Integrated Amp-Hours Electricity Used	Average Cycle Voltage	Fuel Economy	CO2	CREE
No.	Miles [3]	Amp-hrs [3]	Volts [2]	MPG [1]	g/mi [0]	g/mi [0]
1						
2						
3						
4						
5						
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9						
10						
11						
12						

Results from Test Set #1: Normal Mode

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	47.7863	50.2321	48.8568
2. Optional Utility Factor Composite MPGe [4]	66.9938	40.9636	52.0967
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	47.7998	35.9494	41.6252
GHG Values	City	Highway	Combined
Composite CREE, (g/mi) [1]	**101.2**	**202.9**	**147.0**
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			**22**
CD All-Electric Range, adjusted (mi) [0]			**21**
Total Driving Range (Miles) [0]			**370**
CD Fuel Economy (MPGe) [0]			**49**
CD Electricity Consumption (kW-hr/100mi) [0]			**68**
CD Gasoline Consumption (gal/100mi) [0]			**0**
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	20.3076	19.8362	**20**
CS Fuel Consumption (gal/100mi) [1]	4.9	5.0	**5**
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			**1,700**
5-Year Fuel Savings Value ($/5 years) [0]			**(1,000)**
Composite CO2 (g/mi) [0]			**231**
Composite Fuel Economy (MPG) [0]			**28**
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.612	0.584	
Composite CD/CS Fuel Economy (MPGe) [4]	44.5637	43.5322	44.0935
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.670	0.278	0.4936
Unadjusted Fuel Economy (MPG) [4]	47.7998	35.9494	41.6252
Unadjusted GHG (g/mi) [1]	101.2	202.9	147.0
Adjusted Fuel Economy (MPG) [4]	31.9948	23.1846	27.3226
Adjusted GHG (g/mi) [1]	170.3	330.9	242.6

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #1: Normal Mode

Charge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD driving distance (Rcda), unadjusted (miles) [3]	32.521	29.797
CD driving distance (Rcda), adjusted (miles) [3]	22.965	20.858
CD all-electric driving distance, unadjusted (miles) [3]	31.428	28.817
CD All-Electric Range, adjusted (mi) [3]	22.000	20.172
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	14998.8	15299.9
CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	65.643	71.435
CD test total DC energy consumed, unadjusted (Watt-hours) [1]	13345.3	13055.7
NEW CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.4454	0.4598
CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.011609	0.005837
NEW CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.015005	0.006734
NEW CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.012370	0.011463
CD gasoline consumption (Rcda), unadjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	51.5605	45.3666
CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda), unadjusted (MPGe) [4]	73.0154	64.8092
NEW CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	46.162	52.007
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	0.0	0.0
NEW CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	0.0	0.0
NEW CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	23.4	10.2
CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	18.2	6.4
NEW CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	26.6	7.6
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.743	0.345
MDIUF based on adjusted Rcda [3]	0.500	0.470
MDIUF based on adjusted Rcdc [3]	0.547	0.481
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.358	0.907
Number of last cycle number with charge-depleting operation (transition cycle) [0]	5	3

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]	32.521	29.797
Charge-sustaining driving range, adjusted (mi) [3]	349.291	341.183
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.696	0.335
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ 0.085	$ 0.093
CD cost per mile - gasoline ($/mi) [3]	$ -	$ -
CD total cost per mile ($/mi) [3]	$ 0.085	$ 0.093
CS cost per mile ($/mi) [3]	$ 0.133	$ 0.136
Composite CD/CS cost ($/mi) [3]	$ 0.109	$ 0.116
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2, adjusted (g/mi) [1]	220.7	242.6
Composite CD/CS Fuel Economy, adjusted (MPG) [4]	28.8376	26.5765

DETAILED CALCULATIONS — UDDS — Normal 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 Distance	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 + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv
1	0.0000	0	8.360	3164.4	3574.5	7.45	0.014197124	0.0142	0.243	0.0000	0.0034	0.1061	0.7000	5.22900	5.215000	0.155	0	0.003143649
2	0.0000	0	8.410	3037.8	3431.5	14.90	0.013647429	0.0136	0.183	0.0000	0.0025	0.1018	0.7000	5.22200	10.430000	0.126	0	0.002456537
3	0.0000	0	8.630	3002.5	3391.7	22.35	0.01348914	0.0135	0.137	0.0000	0.0018	0.1006	0.7000	5.22200	15.645000	0.103	0	0.001984831
4	0.0000	0	8.850	3008.1	3398.0	29.80	0.013514196	0.0135	0.103	0.0000	0.0014	0.1008	0.7000	5.22200	20.860000	0.086	0	0.001660316
5	0.1989	1761	3.170	1065.1	1203.1	37.25	0.004784853	0.0315	0.077	18.2490	0.0024	0.2346	0.7751	5.78217	26.634418	0.077	23.44502753	0.003124499
6	0.2599	2313	0.200	67.4	76.1	44.70	0.000302658	0.0351	0.057	17.7270	0.0020	0.2622	0.7834	5.84410	32.470687	0.064	25.32577216	0.002871278
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Results from Test Set #2: Normal Mode

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
1. Default 50/50 Composite MPGe [4]	47.8603	50.2824	48.9207
2. Optional Utility Factor Composite MPGe [4]	66.7833	41.1706	52.1765
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe [4]	47.9396	36.1286	41.7916
GHG Values	City	Highway	Combined
Composite CREE, without upstream emissions [1]	**101.8**	**201.4**	**146.6**
Label Values (5-Cycle Adjusted)			
Charge-Depleting			Combined
CD range, adjusted (miles) [0]			**22**
CD All-Electric Range, adjusted (mi) [0]			**21**
Total Driving Range (Miles) [0]			**370**
CD Fuel Economy (MPGe) [0]			**49**
CD Electricity Consumption (kW-hr/100mi) [0]			**67**
CD Gasoline Consumption (gal/100mi) [0]			**0**
Charge-Sustaining			Combined
CS Fuel Economy (MPG) [0]	20.3076	19.8362	**20**
CS Fuel Consumption (gal/100mi) [1]	4.9	5.0	**5**
Composite CD/CS			Combined
Annual Fuel Cost ($/year) [0]			**1,700**
5-Year Fuel Savings Value ($/5 years) [0]			**(1,000)**
Composite CO2 (g/mi) [0]			**230**
Composite Fuel Economy (MPG) [0]			**28**
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda [3]	0.609	0.588	
Composite CD/CS Fuel Economy (MPGe) [4]	44.6237	43.7646	44.2330
Trends Report Values	City	Highway	Combined
Fleet Utility Factor (43/57) [3]	0.670	0.278	0.4936
Unadjusted Fuel Economy (MPG) [4]	47.9396	36.1286	41.7916
Unadjusted GHG (g/mi) [1]	101.8	201.4	146.6
Adjusted Fuel Economy (MPG) [4]	32.0800	23.2720	27.4114
Adjusted GHG (g/mi) [1]	171.1	329.1	242.2

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #2: Normal Mode

Charge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD driving distance (Rcda), unadjusted (miles) [3]	32.227	30.208
CD driving distance (Rcda), adjusted (miles) [3]	22.741	21.145
CD all-electric driving distance, unadjusted (miles) [3]	31.283	29.258
CD All-Electric Range, adjusted (mi) [3]	21.898	20.481
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	14692.3	15412.2
CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	64.817	70.608
CD test total DC energy consumed, unadjusted (Watt-hours) [1]	13530.9	13210.5
NEW CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.4362	0.4636
CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.011548	0.005699
NEW CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.014922	0.006572
NEW CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.012301	0.011234
CD gasoline consumption (Rcda), adjusted (gal) [1]	0	0
CD fuel economy (Rcda), adjusted (MPGe) [4]	52.1308	45.6113
CD gasoline consumption rate (Rcda), adjusted (gal/100mi) [4]	0.0000	0.0000
NEW CD fuel economy (Rcda), unadjusted (MPGe) [4]	73.8762	65.1608
NEW CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	45.624	51.726
GHG EMISSIONS VALUES	**CITY**	**HIGHWAY**
CD CO2 emissions rate (Rcda), unadjusted (g/mi) [1]	0.0	0.0
NEW CD CO2 emissions rate (Rcda), adjusted (g/mi) [1]	0.0	0.0
NEW CD utilitized CO2 (MDIUF, Rcdc), adjusted (g/mi) [1]	24.0	7.8
CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	18.8	4.9
NEW CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	27.4	5.8
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	0.743	0.345
MDIUF based on adjusted Rcda [3]	0.497	0.474
MDIUF based on adjusted Rcdc [3]	0.547	0.481
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	0.324	0.948
Number of last cycle number with charge-depleting operation (transition cycle) [0]	5	3

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]	32.227	30.208
Charge-sustaining driving range, adjusted (mi) [3]	349.291	341.183
UTILITY FACTORS & OTHER METRICS	**CITY**	**HIGHWAY**
CD 55/45 Fleet Utility Factor (FUF) for EAER [3]	0.693	0.339
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	**CITY**	**HIGHWAY**
CD cost per mile - electricity ($/mi) [3]	$ 0.084	$ 0.092
CD cost per mile - gasoline ($/mi) [3]	$ -	$ -
CD total cost per mile ($/mi) [3]	$ 0.084	$ 0.092
CS cost per mile ($/mi) [3]	$ 0.133	$ 0.136
Composite CD/CS cost ($/mi) [3]	$ 0.109	$ 0.115
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	**CITY**	**HIGHWAY**
Composite CD/CS CO2, adjusted (g/mi) [1]	221.3	240.2
Composite CD/CS Fuel Economy, adjusted (MPG) [4]	28.8951	26.7392

DETAILED CALCULATIONS — UDDS — Normal 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 Distance	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 + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv
1	0.0000	0	8.630	3271.400	3563.7	7.45	0.014192226	0.0142	0.243	0.0000	0.0034	0.1057	0.7000	5.21500	5.22	0.1550000	0	0.003142564
2	0.0000	0	8.730	3150.000	3431.5	14.90	0.013665748	0.0137	0.183	0.0000	0.0025	0.1018	0.7000	5.21500	10.43	0.1260000	0	0.002459835
3	0.0000	0	8.790	3054.600	3327.6	22.35	0.013234208	0.0132	0.137	0.0000	0.0018	0.0987	0.7000	5.22200	15.65	0.1030000	0	0.001947319
4	0.0000	0	8.950	3037.000	3308.4	29.80	0.013175509	0.0132	0.103	0.0000	0.0014	0.0982	0.7000	5.21500	20.86	0.0860000	0	0.001618705
5	0.2038	1805	2.900	974.100	1061.1	37.25	0.004220104	0.0315	0.077	18.7880	0.0024	0.2353	0.7753	5.78385	26.64	0.0770000	24.03409578	0.003132627
6	0.2534	2257	0.130	43.800	47.7	44.70	0.000189962	0.0342	0.057	17.2710	0.0019	0.2548	0.7814	5.82164	32.46	0.0640000	24.816086	0.002801316
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Results from Test Set #3: 0

CAFE Values	City	Highway	Combined
A. PHEV meets dual fuel criteria:	City	Highway	Combined
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, without upstream emissions [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**

INTERMEDIATE CALCULATIONS AND INPUTS — Test Set #3: 0

Charge-Depleting (CD) Test Results		
DRIVING DISTANCE VALUES	**CITY**	**HIGHWAY**
CD driving distance (Rcda), unadjusted (miles) [3]	0.000	0.000
CD driving distance (Rcda), adjusted (miles) [3]	0.000	0.000
CD all-electric driving distance, unadjusted (miles) [3]	0.000	0.000
CD All-Electric Range, adjusted (mi) [3]	0.000	0.000
FUEL CONSUMPTION & ECONOMY VALUES	**CITY**	**HIGHWAY**
NEW CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	0.0	0.0
CD AC electricity consumption rate (Rcda), adjusted (kW-hr/100mi) [3]	0.000	0.000
CD test total DC energy consumed, unadjusted (Watt-hours) [1]	0.0	0.0
NEW CD Rcda total fuel consumption (Rcda), unadjusted (gal equiv) [4]	0.0000	0.0000
CD utilitized total fuel consumption rate (55/45 FUF, Rcdc), unadjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	0.000000	0.000000
NEW CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [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 gasoline consumption rate (Rcda), adjusted (gal/100mi) [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

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 Distance	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 + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption
No.	gal	grams	Amp-hours	W-hours	W-hours	mi	gal/mi equiv	gal/mi equiv	UF	UF	gal/mi equiv	gal-equiv	%	miles	miles	UF	g/mi	gal/mi equiv
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43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
UF	*gal/mi equiv*	*g/mi*	*CD or CS*		*CD or CS*	
0.198	0.004015758	0	CD	1.000	CD	1.000
0.159	0.003099916	0	CD	1.000	CD	0.490
0.126	0.002428045	0	CD	1.000	CD	0.326
0.100	0.001930599	0	CD	1.000	CD	0.246
0.087	0.003530278	26.60208137	CD	0.160	CD	0.080
0.068	0.003050733	26.99543496	CS based on 1	0.008	CS based on 2%	0.005
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DETAILED CALCULATIONS | **HFET** | **Normal 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 Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	*gal*	*grams*	*Amp-hours*	*W-hours*	*W-hours*	*mi*	*gal/mi equiv*	*gal/mi equiv*	*UF*	*UF*	*gal/mi equiv*	*gal-equiv*	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
1	0.0000	0.0000	12.980	4784.9000	5460.8000	10.30	0.015806586	0.0158	0.123	0.0000	0.0019	0.1620	0.7000	7.175	7.21	0.2060000	0	0.004651652	0.0970	0.002190341	0	CD	1.000	CD	1.000
2	0.0000	0.0000	13.38	4611.1000	5262.5000	20.60	0.015232596	0.0152	0.117	0.0000	0.0018	0.1561	0.7000	7.175	14.42	0.1560000	0	0.003394693	0.0940	0.00204552	0	CD	1.000	CD	0.491
3	0.0702	615.0000	12.13	4010.1000	4576.6000	30.90	0.013924722	0.0201	0.105	6.4050	0.0021	0.2060	0.7000	7.175	21.63	0.1190000	10.2	0.003416411	0.0870	0.002497712	7.581428571	CD	1.704	CD	0.299
4	0.3741	3331.0000	-1.03	-347.0000	-396.0000	41.20	-0.00114624	0.0354	0.092	29.9920	0.0033	0.3623	0.7221	7.402	29.07	0.0950000	42.75472648	0.004650413	0.0820	0.00401404	37.01763071	CD	-0.028	CD	-0.027
5	0.3459	3082.0000	-0.01	-3.4000	-3.9000	51.50	-1.13E-05	0.0338	0.079	23.7790	0.0027	0.3458	0.7200	7.372	36.48	0.0730000	30.52017186	0.003424392	0.0730	0.003424392	30.52017186	CD	-0.015	CD	-0.027
6																							1.000		1.000
7																							1.000		1.000
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32																							1.000		1.000
33																							1.000		1.000
34																							1.000		1.000
35																							1.000		1.000

43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
UF	*gal/mi equiv*	*g/mi*	*CD or CS*		*CD or CS*	
0.198	0.004014373	0	CD	1.000	CD	1.000
0.159	0.003104077	0	CD	1.000	CD	0.491
0.126	0.002382157	0	CD	1.000	CD	0.322
0.100	0.001882216	0	CD	1.000	CD	0.243
0.087	0.003539461	27.37983177	CD	0.143	CD	0.072
0.068	0.002976398	26.36709137	CS based on 1	0.005	CS based on 2%	0.003
				1.000		1.000
				1.000		1.000
				1.000		1.000
				1.000		1.000
				1.000		1.000
				1.000		1.000
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				1.000		1.000
				1.000		1.000

DETAILED CALCULATIONS | **HFET** | **Normal 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 Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	*gal*	*grams*	*Amp-hours*	*W-hours*	*W-hours*	*mi*	*gal/mi equiv*	*gal/mi equiv*	*UF*	*UF*	*gal/mi equiv*	*gal-equiv*	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
1	0.0000	0.0000	13.060	4821.6000	5449.2000	10.30	0.015773009	0.0158	0.123	0.0000	0.0019	0.1617	0.7000	7.175	7.21	0.2060000	0	0.004641771	0.0970	0.002185688	0	CD	1.000	CD	1.000
2	0.0000	0.0000	13.41	4622.3000	5223.9000	20.60	0.015120866	0.0151	0.117	0.0000	0.0018	0.1550	0.7000	7.175	14.42	0.1560000	0	0.003369793	0.0940	0.002030516	0	CD	1.000	CD	0.489
3	0.0535	471.0000	12.71	4193.3000	4739.1000	30.90	0.013730982	0.0190	0.105	4.9350	0.0020	0.1941	0.7000	7.168	21.63	0.1190000	7.82	0.003221995	0.0870	0.002355576	5.841428571	CD	2.340	CD	0.307
4	0.3761	3345.0000	-1.07	-359.4000	-406.2000	41.20	-0.00117807	0.0356	0.092	30.1760	0.0033	0.3641	0.7225	7.391	29.07	0.0950000	42.99919398	0.004679501	0.0820	0.004039148	37.22859557	CD	-0.029	CD	-0.027
5	0.3547	3157.0000	-0.2	-67.3000	-76.1000	51.50	-0.00022028	0.0344	0.079	24.4110	0.0027	0.3524	0.7208	7.388	36.50	0.0730000	31.19229445	0.003481972	0.0730	0.003481972	31.29356814	CD	-0.017	CD	-0.032
6																							1.000		1.000
7																							1.000		1.000
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32																							1.000		1.000
33																							1.000		1.000
34																							1.000		1.000
35																							1.000		1.000

43/57 City Fleet Utility Factor [3]	43/57 City FUF x Adjusted Total Fuel Consumption Rate	43/57 City FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
UF	*gal/mi equiv*	*g/mi*	*CD or CS*		*CD or CS*	
				1.000		1.000
				1.000		1.000
				1.000		1.000
				1.000		1.000
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				1.000		1.000
				1.000		1.000

DETAILED CALCULATIONS | **HFET** | **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 Distance	Electric Only Fuel Consumption Rate	Total Fuel Consumption Rate (gas + electric)	55/45 Highway Fleet Utility Factor [3]	55/45 Highway FUF x CREE	55/45 Highway FUF x Total Consumption	Total Fuel Consumption (gas + electric)	5-Cycle Adjustment	Adjusted Cycle Measured Distance	Adjusted Cycle Theoretical Cumulative Distance	MDIUF [3]	MDIUF x Adjusted CO2	MDIUF x Adjusted Total Fuel Consumption	43/57 Highway Fleet Utility Factor [3]	43/57 Highway FUF x Adjusted Total Fuel Consumption Rate	43/57 Highway FUF x Adjusted CREE	Is Cycle CD or CS based on NEC 1% Tolerance?	NEC Tolerance 1% Fuel Energy Criteria	Is Cycle CD or CS based on battery 2% Tolerance?	NEC Tolerance 2% Usable Battery Energy Criteria
No.	*gal*	*grams*	*Amp-hours*	*W-hours*	*W-hours*	*mi*	*gal/mi equiv*	*gal/mi equiv*	*UF*	*UF*	*gal/mi equiv*	*gal-equiv*	*%*	*miles*	*miles*	*UF*	*g/mi*	*gal-equiv*	*UF*	*gal-equiv*	*g/mi*	*CD or CS*		*CD or CS*	
1																							1.000		1.000
2																							1.000		1.000
3																							1.000		1.000
4																							1.000		1.000
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