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	#DIV/0!	#DIV/0!	#NAME?
2. Optional Utility Factor Composite MPGe	#DIV/0!	#DIV/0!	#NAME?
B. PHEV does NOT meet dual fuel criteria:	City	Highway	Combined
1. Utility Factor Composite MPGe	#DIV/0!	#DIV/0!	#NAME?
Based on the all-electric range, is this PHEV a dual fuel vehicle for CAFE?			YES
	City	Highway	Combined
All-Electric Range (miles, unadjusted)	0.00	0.00	0.0

GHG Values	City	Highway	Combined
Composite CREE, no DF (g/mi)	#NAME?	#NAME?	CREE ERROR
Composite CREE, with DF (g/mi)			

Label Values (5-Cycle Adjusted)			
Charge-Depleting	City	Highway	Combined
Charge-depleting Range (Miles)	#DIV/0!	#DIV/0!	#NAME?
All-Electric Range (Miles)	#NAME?	#NAME?	#NAME?
Total Driving Range (Miles)			#NAME?
CD Fuel Economy (MPGe)	#NAME?	#NAME?	#NAME?
CD Electricity Consumption (kW-hr/100mi)	#NAME?	#NAME?	#NAME?
CD Gasoline Consumption (gal/100mi)	#DIV/0!	#DIV/0!	#NAME?
Charge-Sustaining	City	Highway	Combined
CS Fuel Economy (MPG)	#DIV/0!	#DIV/0!	#NAME?
CS Fuel Consumption (gal/100mi)	#DIV/0!	#DIV/0!	#NAME?
Composite CD/CS	City	Highway	Combined
Annual Fuel Cost ($/year)			#NAME?
5-Year Fuel Savings Value ($/5 years)		#NAME?	#NAME?
Composite CO2 (g/mi)	#NAME?	#NAME?	#NAME?
Composite Fuel Economy (MPG)	#DIV/0!	#DIV/0!	#NAME?
MPG Rating (on scale of 1-10)			#N/A
GHG Rating (on scale of 1-10)			#N/A

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 (optional)	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)	#NAME?	#NAME?	
Unadjusted Fuel Economy (MPG)	#NAME?	#NAME?	
Unadjusted GHG (g/mi)	#NAME?	#NAME?	
Adjusted Fuel Economy (MPG)	#NAME?	#NAME?	
Adjusted GHG (g/mi)	#NAME?	#NAME?	
HOV Lane Values	City	Highway	Combined
MDIUF based on unadjusted Rcda	#DIV/0!	#DIV/0!	
Composite CD/CS Fuel Economy (MPGe)	#DIV/0!	#DIV/0!	#DIV/0!

Fueleconomy.gov Values		
Charge-sustaining Efficiency		MPG
City FE (Guide) - Conventional Fuel		#NAME?
Hwy FE (Guide) - Conventional Fuel		#NAME?
Comb FE (Guide) - Conventional Fuel		#NAME?
City Unadj FE - Conventional Fuel		#NAME?
Hwy Unadj FE - Conventional Fuel		#NAME?
Comb Unadj FE - Conventional Fuel		#NAME?
City Unrd Adj FE - Conventional Fuel		#NAME?
Hwy Unrd Adj FE - Conventional Fuel		#NAME?
Comb Unrd Adj FE - Conventional Fuel		#NAME?
Charge-sustaining CO2		g/mi
City CO2 Rounded Adjusted		#NAME?
Hwy CO2 Rounded Adjusted		#NAME?
Comb CO2 Rounded Adjusted		#NAME?
*City CO2 Unadj		#NAME?
*Hwy CO2 Unadj		#NAME?
*Comb CO2 Unadj		#NAME?
*City CO2 Unrd Adj		#NAME?
*Hwy CO2 Unrnd Adj		#NAME?
*Comb CO2 Unrnd Adj		#NAME?
Charge-sustaining Driving Range (Adjusted)		
*Range1 - Model Type Driving Range - Conventional Fuel - City		#NAME?
*Range1 - Model Type Driving Range - Conventional Fuel - Hwy		#NAME?
Range1 - Model Type Driving Range - Conventional Fuel - Comb		#NAME?
Charge-depleting Efficiency	kW-hr/100mi	MPGe
City2 FE (Guide) - Alternative Fuel	#NAME?	#NAME?
Hwy2 Fuel FE (Guide) - Alternative Fuel	#NAME?	#NAME?
Comb2 Fuel FE (Guide) - Alternative Fuel	#NAME?	#NAME?
City2 Unadj FE - Alternative Fuel	#NAME?	#NAME?
Hwy2 Unadj FE - Alternative Fuel	#NAME?	#NAME?
Comb2 Unadj FE - Alternative Fuel	#NAME?	#NAME?
City2 Unrd Adj FE - Alternative Fuel	#NAME?	#NAME?
Hwy2 Unrd Adj FE - Alternative Fuel	#NAME?	#NAME?
Cmb2 Unrd Adj FE - Alternative Fuel	#NAME?	#NAME?
Charge-depleting CO2		g/mi
City CO2 Rounded Adj		#NAME?
Hwy CO2 Rounded Adj		#NAME?
Comb CO2 Rounded Adj		#NAME?
*City CO2 Unadj		#NAME?
*Hwy CO2 Unadj		#NAME?
*Comb CO2 Unadj		#NAME?
*City CO2 Unrd Adj		#NAME?
*Hwy CO2 Unrnd Adj		#NAME?
*Comb CO2 Unrnd Adj		#NAME?
Charge-depleting Driving Range (Adjusted)		miles
City Range on Electricity (miles)		#NAME?
Hwy Range on Electricity (miles)		#NAME?
Comb Range on Electricity as shown on FE Label (miles)		#NAME?
All-Electric Driving Range (Adjusted)		miles
City All-Electric Range		#NAME?
Hwy All-Electric Range		#NAME?
Comb All-Electric Range as shown on FE Label (miles)		#NAME?
Charge-depleting Utility Factors		UF
City Utility Factor (MDIUF)		#NAME?
Hwy Utility Factor (MDIUF)		#NAME?
Comb Utility Factor (MDIUF)		#NAME?
Composite Efficiency (Adjusted)		MPGe
City PHEV Composite MPGe		#NAME?
Hwy PHEV Composite MPGe		#NAME?
Comb PHEV Composite MPGe		#NAME?
Composite CO2 (Adjusted)		g/mi
City CO2-PHEV Composite Rounded Adjusted Combined CO2		#NAME?
Hwy CO2-PHEV Composite Rounded Adjusted Combined CO2		#NAME?
CO2-PHEV Composite Rounded Adjusted Combined CO2		#NAME?
PHEV Total Driving Range (Adjusted)		miles
		#NAME?

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

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer
EPA Test: 20210021013 — Test Record #: D329_202012021013_00162 — Vehicle ID: L0JLX9483 — 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

Recharge energy (AC kilowatt-hours): 15.075
All-Electric Range (miles): 31.428
Calculated transition cycle: 0 — To override transition cycle, enter here--->

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

NVFEL Laboratory Test Data — Vehicle Emission Test Results — Power Analyzer
EPA Test: 20210021014 — Test Record #: D329_202012080818_00170 — Vehicle ID: L0JLX9483 — 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

Recharge energy (AC kilowatt-hours): 14.9002
All-Electric Range (miles): 28.817
Calculated transition cycle: 0 — To override transition cycle, enter here---> 3

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]	-	-	-
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, (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 ($/year) [0]			#NAME?
5-Year Fuel Savings Value ($/5 years) [0]			#NAME?
Composite CO2 (g/mi) [0]			#NAME?
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]	#NAME?	#NAME?	#NAME?
Unadjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Unadjusted GHG (g/mi) [1]	-	-	-
Adjusted Fuel Economy (MPG) [4]	0.0000	0.0000	0.0000
Adjusted GHG (g/mi) [1]	0.0	0.0	0.0

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

Charge-Depleting (CD) Test Results	CITY	HIGHWAY
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]	#NAME?	#NAME?
CD All-Electric Range, adjusted (mi) [3]	#NAME?	#NAME?
FUEL CONSUMPTION & ECONOMY VALUES	CITY	HIGHWAY
NEW CD AC electricity consumption (Rcdc), unadjusted (Watt-hours) [1]	#NAME?	#NAME?
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]	#NAME?	#NAME?
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]	#NAME?	#NAME?
NEW CD utilitized total fuel consumption rate (43/57 FUF, Rcdc), adjusted (gal-equiv/mile) [6]	#NAME?	#NAME?
NEW CD utilitized total fuel consumption rate (MDIUF, Rcdc), adjusted (gal-equiv/mile) [6]	#NAME?	#NAME?
CD gasoline consumption (Rcda), unadjusted (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]	#NAME?	#NAME?
NEW CD AC electricity consumption rate (Rcda), unadjusted (kW-hr/100mi) [3]	#NAME?	#NAME?
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]	#NAME?	#NAME?
CD utilitized CREE (55/45 FUF, Rcdc), unadjusted (g/mi) [1]	#NAME?	#NAME?
NEW CD utilitized CREE (43/57 FUF, Rcdc), adjusted (g/mi) [1]	#NAME?	#NAME?
UTILITY FACTORS & OTHER METRICS	CITY	HIGHWAY
CD 55/45 Fleet Utility Factor (FUF) for Rcdc [3]	#NAME?	#NAME?
MDIUF based on adjusted Rcda [3]	#NAME?	#NAME?
MDIUF based on adjusted Rcdc [3]	#NAME?	#NAME?
Fraction of transition cycle that is charge-depleting operation (Zn) [3]	#NAME?	#NAME?
Number of last cycle number with charge-depleting operation (transition cycle) [0]	-	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]	#NAME?	#NAME?
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]	#NAME?	#NAME?
FUEL COSTS: PROCESS FOR DERIVING A COMPOSITE CD/CS COST PER MILE	CITY	HIGHWAY
CD cost per mile - electricity ($/mi) [3]	#NAME?	#NAME?
CD cost per mile - gasoline ($/mi) [3]	#NAME?	#NAME?
CD total cost per mile ($/mi) [3]	#NAME?	#NAME?
CS cost per mile ($/mi) [3]	#NAME?	#NAME?
Composite CD/CS cost ($/mi) [3]	#NAME?	#NAME?
COMPOSITE CD/CS FUEL ECONOMY AND CO2 VALUES, ADJUSTED	CITY	HIGHWAY
Composite CD/CS CO2, adjusted (g/mi) [1]	#NAME?	#NAME?
Composite CD/CS Fuel Economy, adjusted (MPG) [4]	0	0

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
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
1	#NAME?	#NAME?	#NAME?	#NAME?		7.45				#NAME?							#NAME?
2	#NAME?	#NAME?	#NAME?	#NAME?		14.90				#NAME?							#NAME?
3	#NAME?	#NAME?	#NAME?	#NAME?		22.35				#NAME?							#NAME?
4	#NAME?	#NAME?	#NAME?	#NAME?		29.80				#NAME?							#NAME?
5	#NAME?	#NAME?	#NAME?	#NAME?		37.25				#NAME?							#NAME?
6	#NAME?	#NAME?	#NAME?	#NAME?		44.70				#NAME?							#NAME?

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

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

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]	-	-	-
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

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):		

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	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
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
					1.000		1.000
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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]	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	#NAME?	#NAME?	#NAME?	#NAME?		10.30				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
2	#NAME?	#NAME?	#NAME?	#NAME?		20.60				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	#NAME?	#NAME?	#NAME?	#NAME?		30.90				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
4	#NAME?	#NAME?	#NAME?	#NAME?		41.20				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
5	#NAME?	#NAME?	#NAME?	#NAME?		51.50				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
6																							1.000		1.000
7																							1.000		1.000
8																							1.000		1.000
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34																							1.000		1.000
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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	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
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
			#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
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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]	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	#NAME?	#NAME?	#NAME?	#NAME?		10.30				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
2	#NAME?	#NAME?	#NAME?	#NAME?		20.60				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	#NAME?	#NAME?	#NAME?	#NAME?		30.90				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
4	#NAME?	#NAME?	#NAME?	#NAME?		41.20				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
5	#NAME?	#NAME?	#NAME?	#NAME?		51.50				#NAME?							#NAME?				#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
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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	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
gal/mi equiv	UF	gal/mi equiv	g/mi	CD or CS		CD or CS	
					1.000		1.000
					1.000		1.000
					1.000		1.000
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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 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]	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
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4																							1.000		1.000
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