

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 166
Reporting Period: March 2010

All Trips Combined

All Trips Combined	
Overall gasoline fuel economy (mpg)	48
Overall AC electrical energy consumption (AC Wh/mi) ¹	53
Overall DC electrical energy consumption (DC Wh/mi) ²	39
Total number of trips	11,690
Total distance traveled (mi)	113,476
Trips in Charge Depleting (CD) mode ³	
Gasoline fuel economy (mpg)	61
DC electrical energy consumption (DC Wh/mi) ⁴	136
Number of trips	4,716
Percent of trips city / highway	86% / 14%
Distance traveled (mi)	23,332
Percent of total distance traveled	21%
Trips in both Charge Depleting and Charge Sustaining (CD/CS)	modes ⁵
Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi) 6	47
Number of trips	876
Percent of trips city / highway	41% / 59%
Distance traveled (mi)	27,626
Percent of total distance traveled	24%
Trips in Charge Sustaining (CS) mode ⁷	
Gasoline fuel economy (mpg)	42
Number of trips	6,098
Percent of trips city / highway	80% / 20%
Distance traveled (mi)	62,518
Percent of total distance traveled	55%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	392
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	4,224

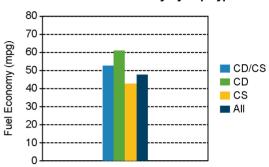
Vehicle Technologies Program

Date range of data received:

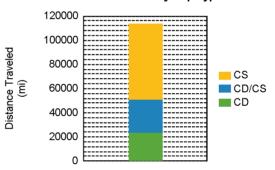
3/1/2010 to 3/31/2010

Number of days the vehicles were driven: 31

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

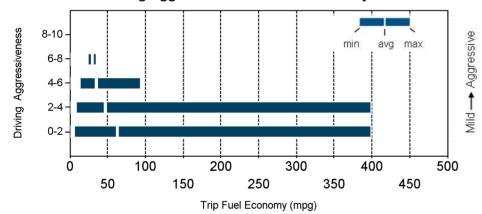


Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

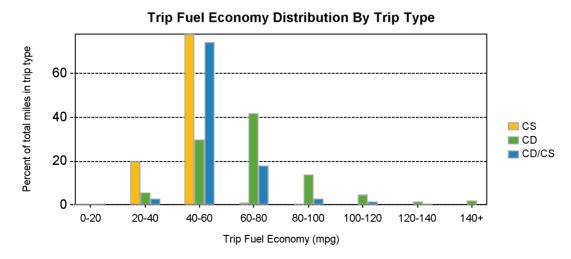
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Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	59	64
DC electrical energy consumption (DC Wh/mi)	156	108
Percent of miles with internal combustion engine off	30%	18%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.9
Average trip distance (mi)	3.3	15.5
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	55	52
DC electrical energy consumption (DC Wh/mi)	74	43
Percent of miles with internal combustion engine off	26%	10%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.7
Average trip distance (mi)	9.7	46.6
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	36	45
Percent of miles with internal combustion engine off	24%	9%
Average trip aggressiveness (on scale 0 - 10)	2.2	1.9
Average trip distance (mi)	3.1	39.1

Effect Of Driving Aggressiveness on Fuel Economy This Year

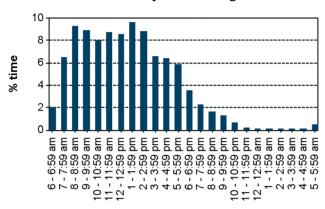


Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.

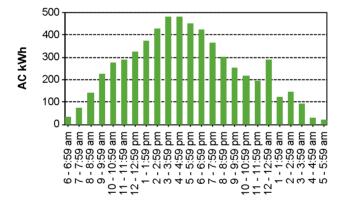


Average number of charging events per vehicle per month when driven	13	
Average number of charging events per vehicle per day when vehicle driven	0.9	
Average distance driven between charging events (mi)	54.2	
Average number of trips between charging events	5.6	
Average time plugged in per charging event (hr)	25.5	
Average time charging per charging event (hr)	2.6	
Average energy per charging event (AC kWh)	2.9	
Average charging energy per vehicle per month (AC kWh)	36.7	
Total number of charging events	2,095	
Total charging energy (AC kWh)	6,048	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

