

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 168
Reporting Period: June 2010

All Trips Combined

Overall gasoline fuel economy (mpg)	49
Overall AC electrical energy consumption (AC Wh/mi) ¹	49
Overall DC electrical energy consumption (DC Wh/mi) ²	35
Total number of trips	13,110
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Total distance traveled (mi)	130,106

Trips in Charge Depleting (CD) mode ³

Gasoline fuel economy (mpg)	68
DC electrical energy consumption (DC Wh/mi) ⁴	144
Number of trips	5,135
Percent of trips city / highway	88% / 12%
Distance traveled (mi)	24,159
Percent of total distance traveled	19%

Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes 5

Gasoline fuel economy (mpg)	55
DC electrical energy consumption (DC Wh/mi) ⁶	50
Number of trips	880
Percent of trips city / highway	50% / 50%
Distance traveled (mi)	22,696
Percent of total distance traveled	17%

Trips in Charge Sustaining (CS) mode 7

inps in Charge Sustaining (CS) mode	
Gasoline fuel economy (mpg)	44
Number of trips	7,095
Percent of trips city / highway	76% / 24%
Distance traveled (mi)	83,251
Percent of total distance traveled	64%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	556
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	15,074

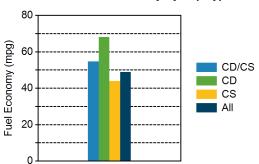
Vehicle Technologies Program

Date range of data received:

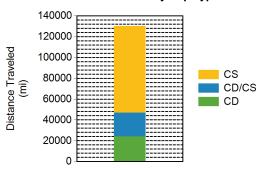
6/1/2010 to 6/30/2010

Number of days the vehicles were driven: 30

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

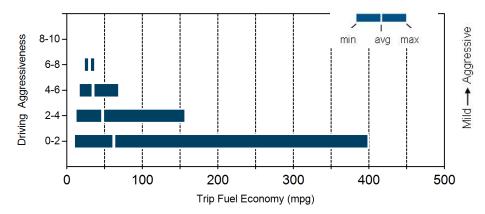


Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

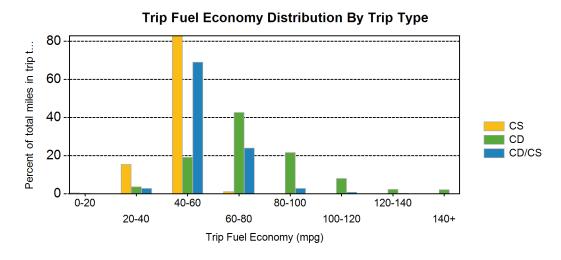
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Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	67	70
DC electrical energy consumption (DC Wh/mi)	167	111
Percent of miles with internal combustion engine off	40%	23%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.8
Average trip distance (mi)	3.1	15.7
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	55	55
DC electrical energy consumption (DC Wh/mi)	80	44
Percent of miles with internal combustion engine off	32%	12%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.7
Average trip distance (mi)	8.8	42.6
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	37	46
Percent of miles with internal combustion engine off	25%	9%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.7
Average trip distance (mi)	3.2	39.4

Effect Of Driving Aggressiveness on Fuel Economy This Year



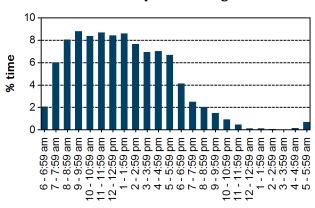
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



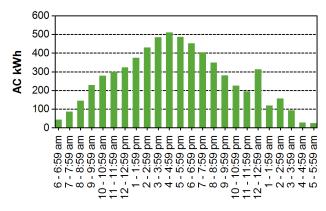
Plug-in charging

Average number of charging events per vehicle per month when driven	14	
Average number of charging events per vehicle per day when vehicle driven	0.9	
Average distance driven between charging events (mi)	56.5	
Average number of trips between charging events	5.7	
Average time plugged in per charging event (hr)	22.9	
Average time charging per charging event (hr)	2.8	
Average energy per charging event (AC kWh)	2.8	
Average charging energy per vehicle per month (AC kWh)	38.0	
Total number of charging events	2,302	
Total charging energy (AC kWh)	6,342	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

