

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 155

Reporting Period: February 2011

All Trips Combined

Overall gasoline fuel economy (mpg)	43				
Overall AC electrical energy consumption (AC Wh/mi) ¹	39				
Overall DC electrical energy consumption (DC Wh/mi) 2	27				
Total number of trips	10,717				
Total distance traveled (mi)	94,493				
Trips in Charge Depleting (CD) mode ³					
Gasoline fuel economy (mpg)	53				
DC electrical energy consumption (DC Wh/mi) ⁴	142				

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Number of trips	3,377
Percent of trips city / highway	89% / 11%
Distance traveled (mi)	14,365

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

Gasoline fuel economy (mpg)	48
DC electrical energy consumption (DC Wh/mi) ⁶	47
Number of trips	477
Percent of trips city / highway	52% / 48%
Distance traveled (mi)	10,904
Percent of total distance traveled	12%

Trips in Charge Sustaining (CS) mode 7

Percent of total distance traveled

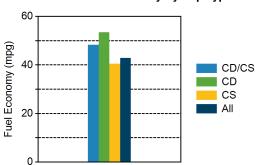
inps in Charge Sustaining (CS) mode '	
Gasoline fuel economy (mpg)	40
Number of trips	6,863
Percent of trips city / highway	81% / 20%
Distance traveled (mi)	69,224
Percent of total distance traveled	73%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	765
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	11,802

Vehicle Technologies Program

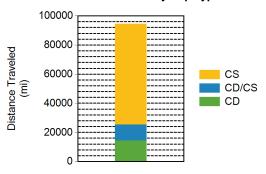
Date range of data received: 2/1/2011 to 2/28/2011

Number of days the vehicles were driven: 28

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



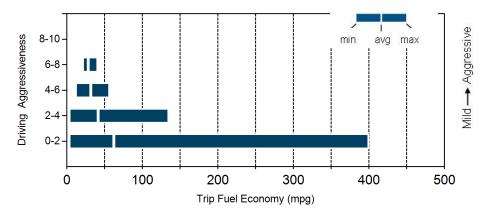
Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/ReportNotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

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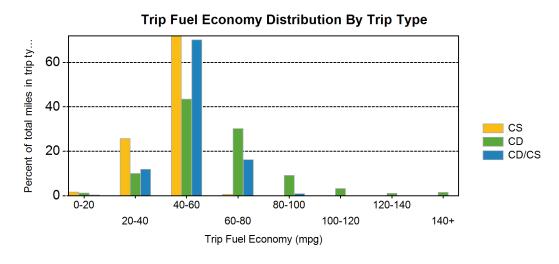
15%

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	51	59
DC electrical energy consumption (DC Wh/mi)	163	107
Percent of miles with internal combustion engine off	27%	14%
Average trip aggressiveness (on scale 0 - 10)	2.0	2.1
Average trip distance (mi)	3.0	14.7
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	45	49
DC electrical energy consumption (DC Wh/mi)	76	41
Percent of miles with internal combustion engine off	23%	9%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.8
Average trip distance (mi)	7.4	39.8
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	33	44
Percent of miles with internal combustion engine off	19%	7%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.9
Average trip distance (mi)	3.4	37.9

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.

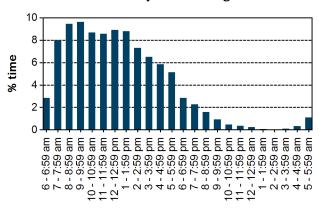


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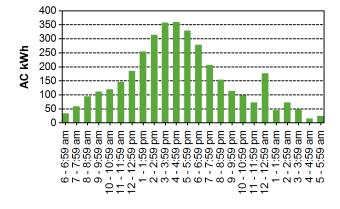
Plug-in charging

Average number of charging events per vehicle per month when driven	9	
Average number of charging events per vehicle per day when vehicle driven	0.6	
Average distance driven between charging events (mi)	71.7	
Average number of trips between charging events	8.1	
Average time plugged in per charging event (hr)	31.6	
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)	24.2	
Total number of charging events	1,317	
Total charging energy (AC kWh)	3,678	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

