

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 70

Reporting Period: August 2011

All Trips Combined

Overall gasoline fuel economy (mpg)	48
Overall AC electrical energy consumption (AC Wh/mi) ¹	50
Overall DC electrical energy consumption (DC Wh/mi) 2	36
Total number of trips	5,835
Total distance traveled (mi)	49,370

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Trips in Charge Depleting (CD) mode	
Gasoline fuel economy (mpg)	68
DC electrical energy consumption (DC Wh/mi) ⁴	148
Number of trips	2,363
Percent of trips city / highway	89% / 12%
Distance traveled (mi)	9,188
Percent of total distance traveled	19%

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

Gasoline fuel economy (mpg)	54
DC electrical energy consumption (DC Wh/mi) ⁶	49
Number of trips	336
Percent of trips city / highway	52% / 48%
Distance traveled (mi)	8,436
Percent of total distance traveled	17%

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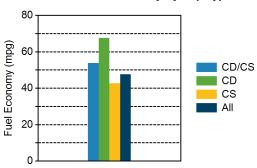
Imps in Charge Sustaining (CS) mode /	
Gasoline fuel economy (mpg)	43
Number of trips	3,136
Percent of trips city / highway	77% / 23%
Distance traveled (mi)	31,746
Percent of total distance traveled	64%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	270
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	4,411

Vehicle Technologies Program

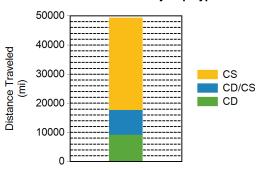
Date range of data received: 8/1/2011 8/31/2011 to

Number of days the vehicles were driven: 31

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

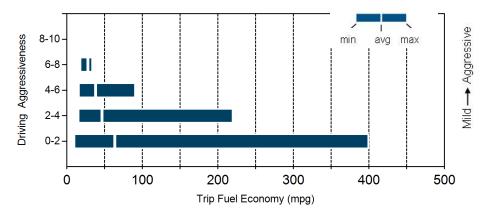


Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/ReportNotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

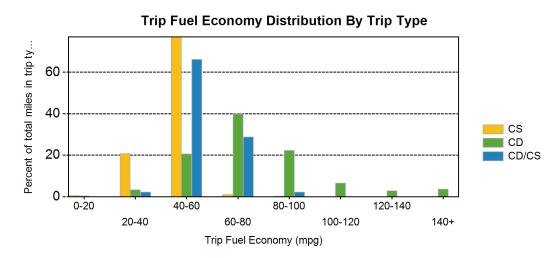
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Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	65	71
DC electrical energy consumption (DC Wh/mi)	177	110
Percent of miles with internal combustion engine off	41%	24%
Average trip aggressiveness (on scale 0 - 10)	1.8	1.7
Average trip distance (mi)	2.5	14.8
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	53	54
DC electrical energy consumption (DC Wh/mi)	78	44
Percent of miles with internal combustion engine off	32%	13%
Average trip aggressiveness (on scale 0 - 10)	1.8	1.5
Average trip distance (mi)	7.6	43.9
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)	1.8	1.7
Average trip distance (mi)	3.0	33.3

Effect Of Driving Aggressiveness on Fuel Economy This Year



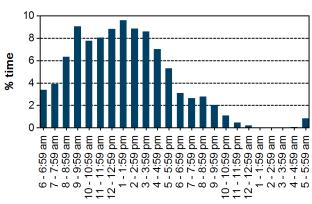
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



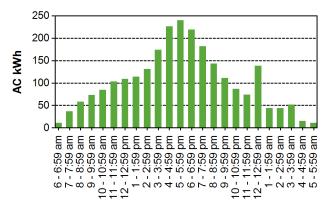
Plug-in charging

Average number of charging events per vehicle per month when driven	14	
Average number of charging events per vehicle per day when vehicle driven	0.8	
Average distance driven between charging events (mi)	52.0	
Average number of trips between charging events	6.1	
Average time plugged in per charging event (hr)	26.7	
Average time charging per charging event (hr)	2.5	
Average energy per charging event (AC kWh)	2.6	
Average charging energy per vehicle per month (AC kWh)	35.6	
Total number of charging events	950	
Total charging energy (AC kWh)	2,492	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

