

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 105 Reporting Period: **April 2011**

All Trips Combined

Gasoline fuel economy (mpg)

Overall gasoline fuel economy (mpg)	46				
Overall AC electrical energy consumption (AC Wh/mi) ¹	61				
Overall DC electrical energy consumption (DC Wh/mi) $^{\rm 2}$	43				
Total number of trips	8,248				
Total distance traveled (mi)	63,613				
Trips in Charge Depleting (CD) mode ³					

DC electrical energy consumption (DC Wh/mi) ⁴	147
Number of trips	3,357
Percent of trips city / highway	88% / 12%
Distance traveled (mi)	14,162
Percent of total distance traveled	22%

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

Gasoline fuel economy (mpg)	52
DC electrical energy consumption (DC Wh/mi) ⁶	52
Number of trips	522
Percent of trips city / highway	49% / 51%
Distance traveled (mi)	12,118
Percent of total distance traveled	19%

41
4,369
82% / 19%
37,334
59%
512
7,829

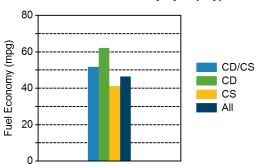
Vehicle Technologies Program

Date range of data received:

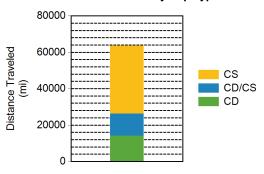
4/1/2011 4/30/2011 to

Number of days the vehicles were driven: 30

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

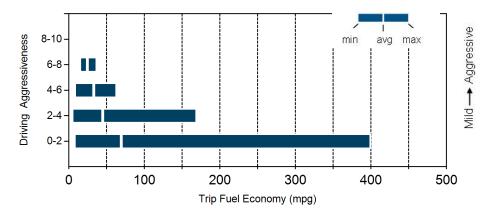


Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/ReportNotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

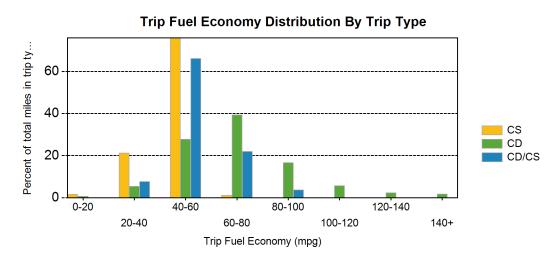
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Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	59	68
DC electrical energy consumption (DC Wh/mi)	168	113
Percent of miles with internal combustion engine off	33%	20%
Average trip aggressiveness (on scale 0 - 10)	1.8	1.7
Average trip distance (mi)	2.9	13.6
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	50	52
DC electrical energy consumption (DC Wh/mi)	85	45
Percent of miles with internal combustion engine off	28%	11%
Average trip aggressiveness (on scale 0 - 10)	1.8	1.6
Average trip distance (mi)	7.8	38.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	35	45
Percent of miles with internal combustion engine off	23%	9%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.7
Average trip distance (mi)	3.7	30.1

Effect Of Driving Aggressiveness on Fuel Economy This Year



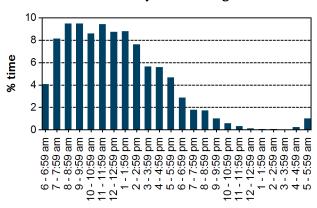
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



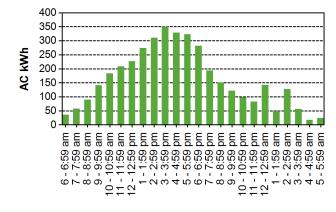
Plug-in charging

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)	45.9	
Average number of trips between charging events	5.9	
Average time plugged in per charging event (hr)	25.7	
Average time charging per charging event (hr)	2.9	
Average energy per charging event (AC kWh)	2.8	
Average charging energy per vehicle per month (AC kWh)	37.1	
Total number of charging events	1,387	
Total charging energy (AC kWh)	3,892	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

