

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 153
Reporting Period: January 11

All Trips Combined

Overall gasoline fuel economy (mpg)	43			
Overall AC electrical energy consumption (AC Wh/mi) ¹	45			
Overall DC electrical energy consumption (DC Wh/mi) ²	32			
Total number of trips	10,149			
Total distance traveled (mi)	82,620			
Trips in Charge Depleting (CD) mode ³				
Gasoline fuel economy (mpg)	53			
Gasoline fuel economy (mpg) DC electrical energy consumption (DC Wh/mi) ⁴	53 143			
, () 6/				
DC electrical energy consumption (DC Wh/mi) ⁴	143			
DC electrical energy consumption (DC Wh/mi) ⁴ Number of trips	143 3,295			

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

Gasoline fuel economy (mpg)	51
DC electrical energy consumption (DC Wh/mi) ⁶	54
Number of trips	496
Percent of trips city / highway	51% / 49%
Distance traveled (mi)	10,737
Percent of total distance traveled	13%

Trips in Charge Sustaining (CS) mode 7

Inps in Charge Sustaining (CS) mode	
Gasoline fuel economy (mpg)	40
Number of trips	6,358
Percent of trips city / highway	82% / 18%
Distance traveled (mi)	57,684
Percent of total distance traveled	70%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	749
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	12,094

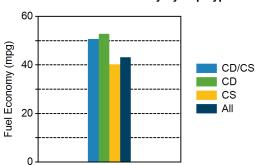
Vehicle Technologies Program

Date range of data received:

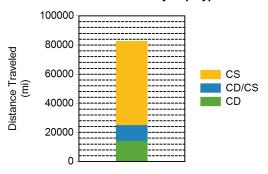
1/1/2011 to 1/31/2011

Number of days the vehicles were driven: 31

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

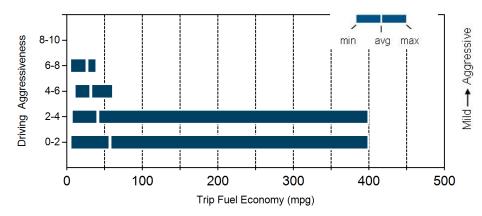


Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/ReportNotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

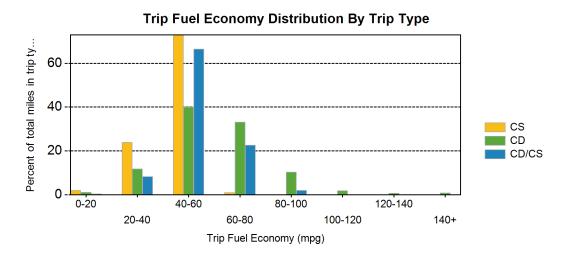
1

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	48	62
DC electrical energy consumption (DC Wh/mi)	165	112
Percent of miles with internal combustion engine off	25%	14%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.9
Average trip distance (mi)	2.9	14.6
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	44	52
DC electrical energy consumption (DC Wh/mi)	78	49
Percent of miles with internal combustion engine off	23%	10%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.6
Average trip distance (mi)	7.6	36.2
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	33	45
Percent of miles with internal combustion engine off	19%	8%
Average trip aggressiveness (on scale 0 - 10)	2.2	1.8
Average trip distance (mi)	3.5	35.0

Effect Of Driving Aggressiveness on Fuel Economy This Year



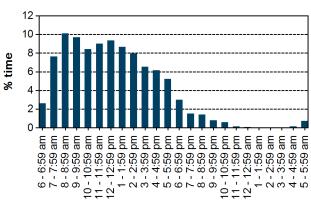
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



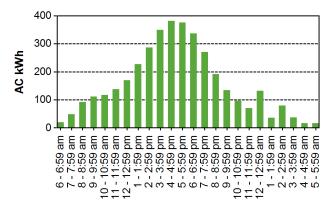
Plug-in charging

Average number of charging events per vehicle per month when driven	9	
Average number of charging events per vehicle per day when vehicle driven	0.7	
Average distance driven between charging events (mi)	60.6	
Average number of trips between charging events	7.4	
Average time plugged in per charging event (hr)	32.0	
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)	24.5	
Total number of charging events	1,363	
Total charging energy (AC kWh)	3,748	

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

