# North American PHEV Demonstration

Fleet Summary Repo	ort: Hyı	motion Prius (V2Green data logger)
Number of vehicles:	164	
Reporting Period:	July 2010	

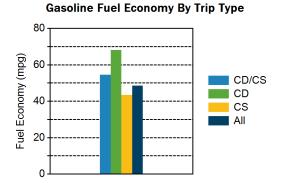
#### All Trips Combined

Overall gasoline fuel economy (mpg)	49					
Overall AC electrical energy consumption (AC Wh/mi) 1	52					
Overall DC electrical energy consumption (DC Wh/mi) $^{\rm 2}$	38					
Total number of trips	12,256					
Total distance traveled (mi)	118,931					
Trips in Charge Depleting (CD) mode <sup>3</sup>						
Gasoline fuel economy (mpg)	68					
DC electrical energy consumption (DC Wh/mi) $^4$	147					
Number of trips	4,803					
Percent of trips city / highway	87% / 13%					
Distance traveled (mi)	23,016					
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) <sup>6</sup>	51					
Number of trips	871					
Percent of trips city / highway	53% / 47%					
Distance traveled (mi)	21,659					
Percent of total distance traveled	18%					
Trips in Charge Sustaining (CS) mode $^7$						
Gasoline fuel economy (mpg)	43					
Number of trips	6,582					
Percent of trips city / highway	77% / 23%					
Distance traveled (mi)	74,256					
Percent of total distance traveled	62%					
Number of trips when the plug-in battery pack was turned off by the vehicle operator <sup>8</sup>	601					
Distance traveled with plug-in battery pack						
turned off by the vehicle operator (mi) <sup>9</sup>	14,755					

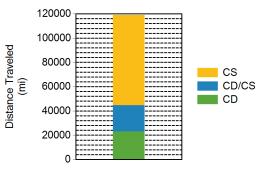
## Vehicle Technologies Program

Date range of data received:

7/1/2010 to 7/31/2010 Number of days the vehicles were driven: 31



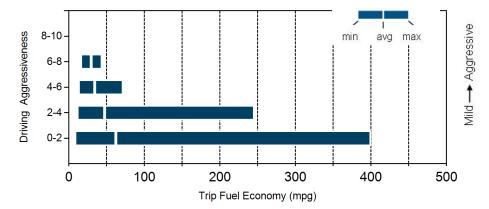
**Distance Traveled By Trip Type** 



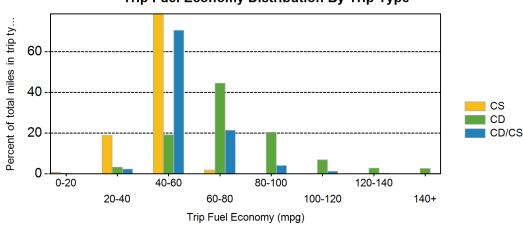
Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	67	69
DC electrical energy consumption (DC Wh/mi)	173	111
Percent of miles with internal combustion engine off	41%	23%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.8
Average trip distance (mi)	3.2	15.8
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	55	54
DC electrical energy consumption (DC Wh/mi)	83	43
Percent of miles with internal combustion engine off	34%	13%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.6
Average trip distance (mi)	9.1	42.8
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	35	46
Percent of miles with internal combustion engine off	24%	10%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.7
Average trip distance (mi)	3.4	37.0

### 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	13	
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	5.8	
Average time plugged in per charging event (hr)	26.3	
Average time charging per charging event (hr)	2.8	
Average energy per charging event (AC kWh)	3.0	
Average charging energy per vehicle per month (AC kWh)	38.2	
Total number of charging events	2,106	
Total charging energy (AC kWh)	6,219	

