North American PHEV Demonstration

Fleet Summary Report:

ort: Hymotion Prius (V2Green data logger)

Number of vehicles:

168

Reporting Period: January 2010

All Trips Combined

All Trips Combined				
Overall gasoline fuel economy (mpg)	46			
Overall AC electrical energy consumption (AC Wh/mi) ¹	54			
Overall DC electrical energy consumption (DC Wh/mi) ²	40			
Total number of trips	9,988			
Total distance traveled (mi)	93,994			
Trips in Charge Depleting (CD) mode ³				
Gasoline fuel economy (mpg)	55			
DC electrical energy consumption (DC Wh/mi) ⁴	137			
Number of trips	4,148			
Percent of trips city / highway	86% / 14%			
Distance traveled (mi)	20,011			
Percent of total distance traveled	21%			
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	49			
Number of trips	715			
Percent of trips city / highway	45% / 55%			
Distance traveled (mi)	19,889			
Percent of total distance traveled	21%			
Trips in Charge Sustaining (CS) mode 7				
Gasoline fuel economy (mpg)	42			
Number of trips	5,125			
Percent of trips city / highway	76% / 24%			
Distance traveled (mi)	54,094			
Percent of total distance traveled	58%			
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	476			
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	5,556			

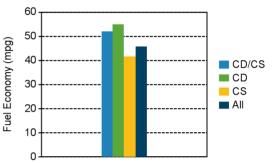
Vehicle Technologies Program

Date range of data received:

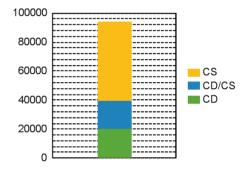
1/1/2010 to 1/31/2010

Number of days the vehicles were driven: 31

Gasoline Fuel Economy By Trip Type



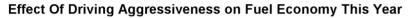
Distance Traveled By Trip Type

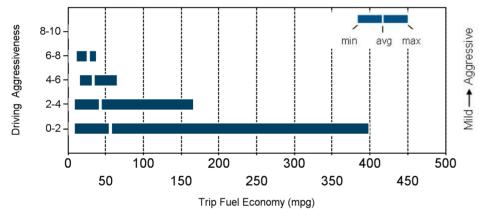


Distance Traveled (mi)

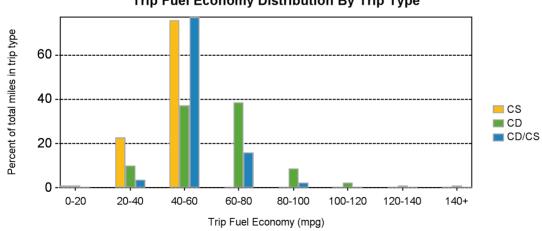
Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	51	61
DC electrical energy consumption (DC Wh/mi)	157	109
Percent of miles with internal combustion engine off	24%	15%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.9
Average trip distance (mi)	3.2	15.1
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	50	52
DC electrical energy consumption (DC Wh/mi)	69	46
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)	8.8	43.2
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	34	45
Percent of miles with internal combustion engine off	20%	9%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.8
Average trip distance (mi)	3.4	33.3





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.



Trip Fuel Economy Distribution By Trip Type

Plug-in charging

3 3 3		
Average number of charging events per vehicle per month when driven	11	
Average number of charging events per vehicle per day when vehicle driven	0.8	
Average distance driven between charging events (mi)	51.5	
Average number of trips between charging events	5.5	
Average time plugged in per charging event (hr)	24.8	
Average time charging per charging event (hr)	2.7	
Average energy per charging event (AC kWh)	2.8	
Average charging energy per vehicle per month (AC kWh)	31.1	
Total number of charging events	1,826	
Total charging energy (AC kWh)	5,098	

Time of Day When Driving

