



Vehicle Technologies Program

North American PHEV Demonstration

Fleet Summary Report - Hymotion Prius (V2Green data logger)

Number of vehicles: 110

Reporting Period: Mar 08 - June 09

Date range of data received:

4/18/2008 to 6/30/2009

Number of days the vehicles were driven: 432

All Trips Combined

Overall gasoline fuel economy (mpg)	50
Total number of trips	53565
Total distance traveled (mi)	498433

Trips in Charge Depleting (CD) mode *

Gasoline fuel economy (mpg)	64
Number of trips	27328
Percent of trips city / highway	85.00% / 15.00%
Distance traveled (mi)	123942
Percent of total distance traveled	24.87%

Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes**

Gasoline fuel economy (mpg)	54
Number of trips	5625
Percent of trips city / highway	49.70% / 50.30%
Distance traveled (mi)	131665
Percent of total distance traveled	26.42%

Trips in Charge Sustaining (CS) mode***

Gasoline fuel economy (mpg)	44
Number of trips	20612
Percent of trips city / highway	69.90% / 30.10%
Distance traveled (mi)	242830
Percent of total distance traveled	48.72%

Number of trips when the plug-in battery pack was turned off by the vehicle operator [^]	2310
Distance traveled with plug-in battery pack turned off (mi) ^{^^}	42203

* Trips when the plug-in battery pack charge is depleted to propel the vehicle throughout entire trip

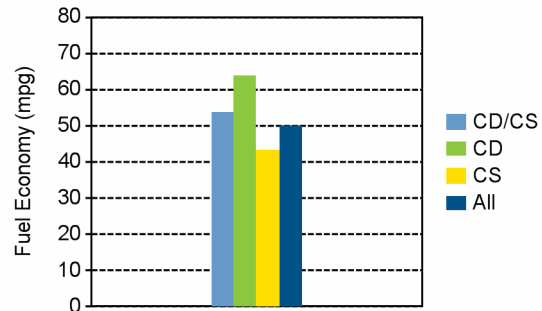
** Trips when the plug-in battery pack is depleted to propel the vehicle for a portion of the trip, but is fully depleted prior to the end of the trip

*** Trips when the plug-in battery pack is not used to propel the vehicle - either the plug-in battery is fully depleted before the beginning of the trip, or the plug-in battery pack is turned off

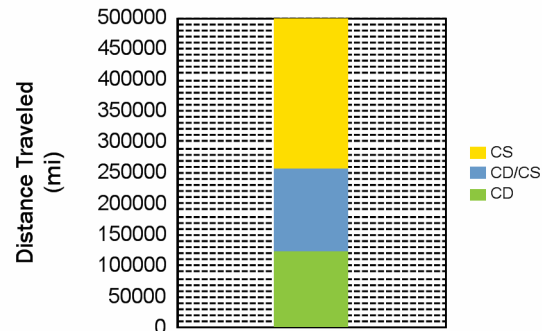
[^] "Number of trips with plug-in battery pack turned off by the vehicle operator" is a subset of number of trips in combined CD/CS and CS mode

^{^^} "Distance traveled with plug-in battery pack turned off" is a subset of distance traveled in combined CD/CS and CS modes

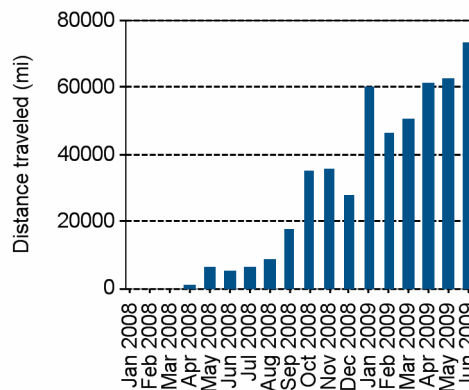
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

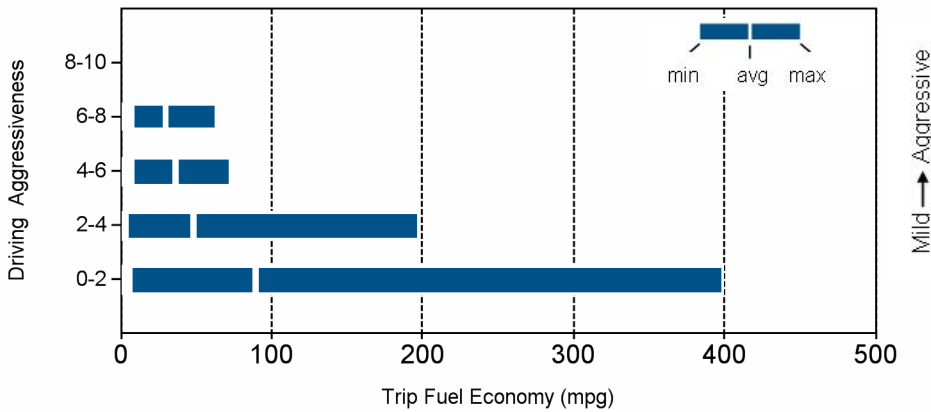


Miles Logged by Month This Year



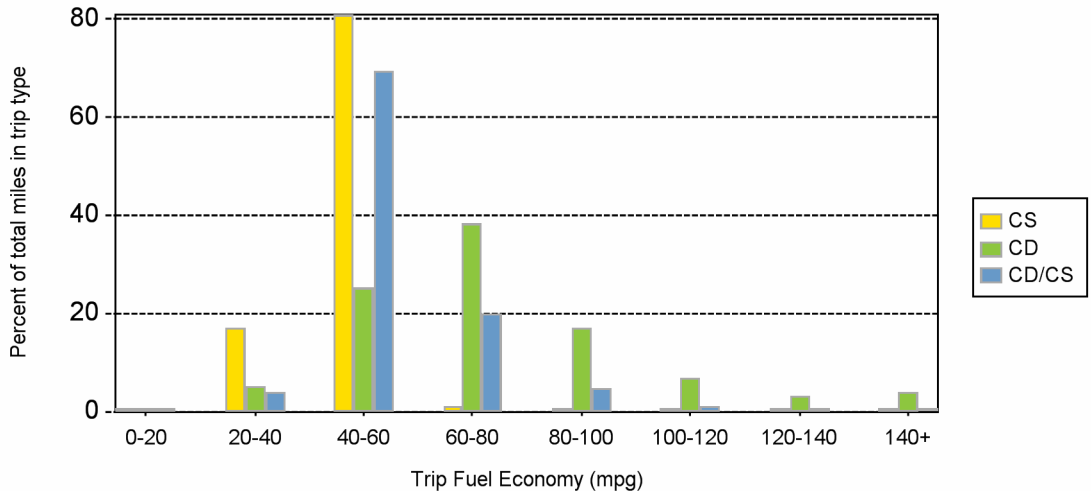
Trips in Charge Depleting (CD) mode		
	City	Highway
Gasoline fuel economy (mpg)	62	66
Percent of miles in electric-only mode	31.00%	8.00%
Average trip aggressiveness (on scale 0 - 10)	1.5	1.5
Average trip distance (mi)	2.9	14.0
Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	57	53
Percent of miles in electric-only mode	25.00%	5.00%
Average trip aggressiveness (on scale 0 - 10)	1.8	1.5
Average trip distance (mi)	8.1	38.5
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	38	45
Percent of miles in electric-only mode	21.00%	4.00%
Average trip aggressiveness (on scale 0 - 10)	1.7	1.6
Average trip distance (mi)	3.8	30.5

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.

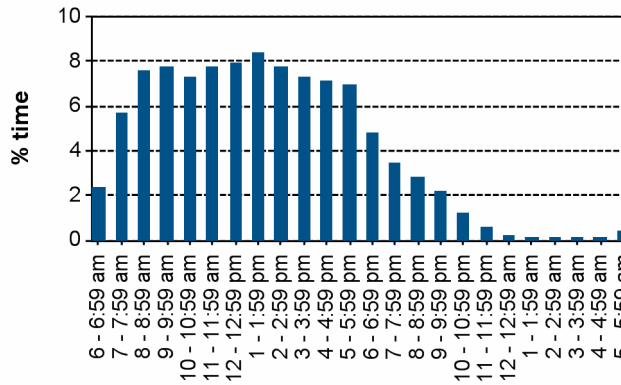
Trip Fuel Economy Distribution By Trip Type



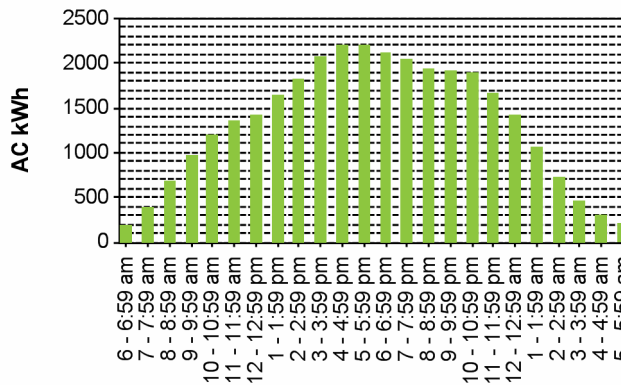
Plug-in charging

Average number of charging events per vehicle per month when driven	17
Average number of charging events per vehicle per day when vehicle driven	1.2
Average distance between charging events	40.2
Average number of trips between charging events	4.3
Average duration of charging event (hr) *	19.0
Average energy per charging event (AC kWh)	2.6
Average charging energy per vehicle per month (AC kWh)	42.7
Total number of charging events	12414
Total charging energy (AC kWh)	31930

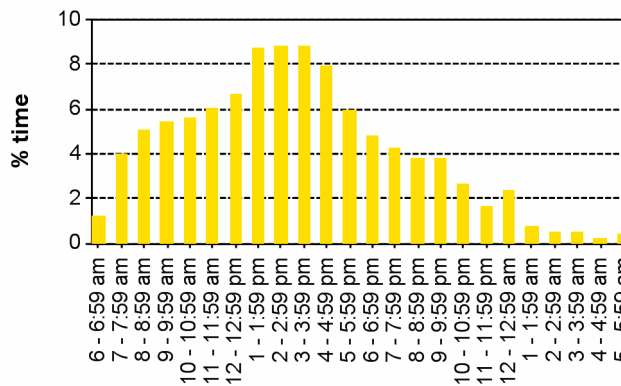
Time of Day When Driving



Time of Day When Charging



Time at the Start of Charging Events



*Average duration of charging event is the average length of time per charging event when the vehicle was plugged into the electrical grid. Electrical energy was not necessarily drawn during the entire period when the vehicle was plugged in.