



Vehicle Technologies Program

North American PHEV Demonstration

Fleet Summary Report - Hymotion Prius (Kvaser data logger)

Number of vehicles: 41

Reporting Period: Jan 08 - Sept 09

Date range of data received:

1/1/2008 to 9/30/2009

Number of days the vehicles were driven: 366

All Trips Combined

Overall gasoline fuel economy (mpg)	46
Total number of trips	30796
Total distance traveled (mi)	268718

Trips in Charge Depleting (CD) mode *

Gasoline fuel economy (mpg)	61
Number of trips	17382
Percent of trips city / highway	84.4% / 15.6%
Distance traveled (mi)	85736
Percent of total distance traveled	31.87%

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

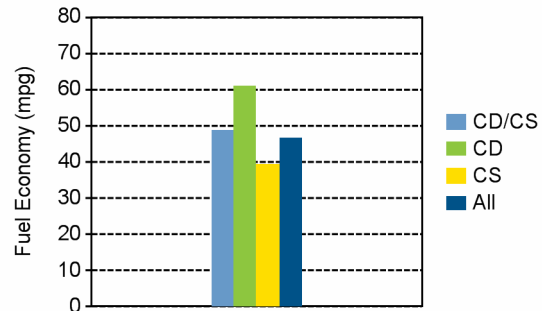
Gasoline fuel economy (mpg)	49
Number of trips	2670
Percent of trips city / highway	47.9% / 52.1%
Distance traveled (mi)	58771
Percent of total distance traveled	21.9%

Trips in Charge Sustaining (CS) mode***

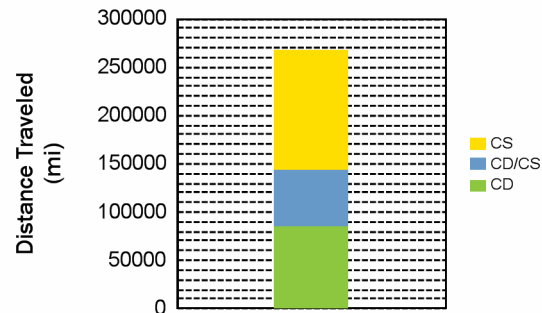
Gasoline fuel economy (mpg)	39
Number of trips	10744
Percent of trips city / highway	70.4% / 29.6%
Distance traveled (mi)	124212
Percent of total distance traveled	46.2%

Number of trips when the plug-in battery pack was turned off by the vehicle operator [^]	1649
Distance traveled with plug-in battery pack turned off (mi) [^]	31827

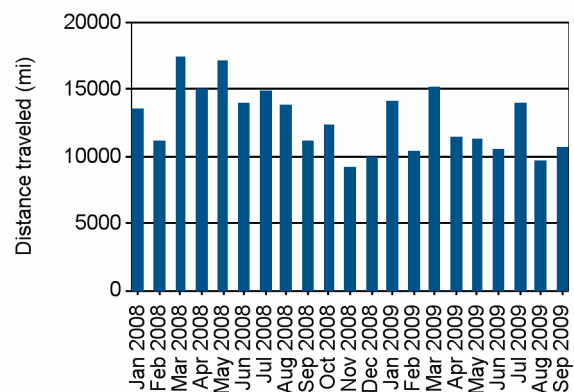
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Miles Logged by Month This Year



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

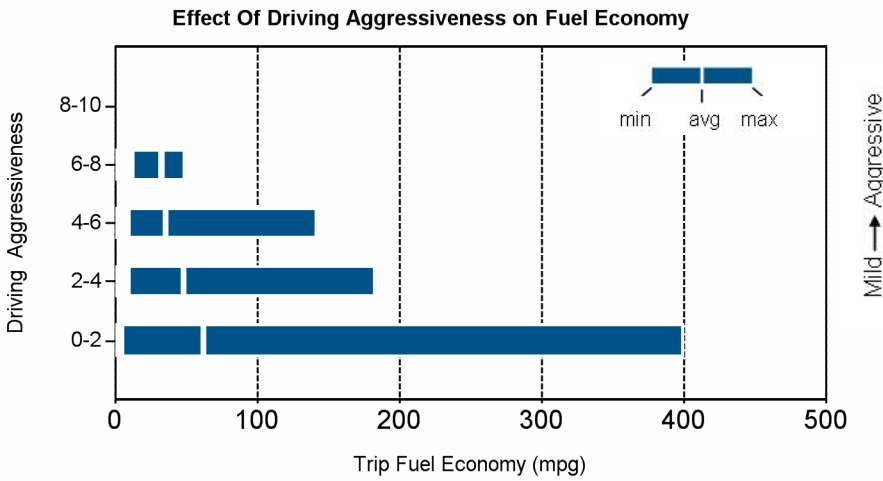
** Trips when the plug-in battery pack is depleted to propel the vehicle for a portion of the trip, but is fully depleted prior to the end of the trip

*** 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

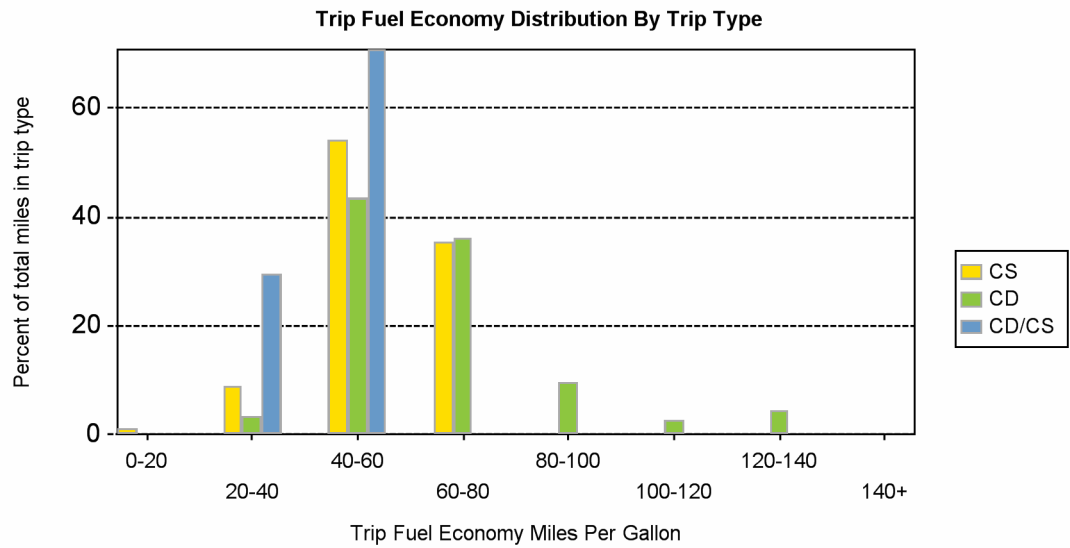
[^] "Number of trips with plug-in battery pack turned off by the vehicle operator" is a subset of number of trips in combined CD/CS and CS mode

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

Trips in Charge Depleting (CD) mode		
	City	Highway
Gasoline fuel economy (mpg)	58	64
Percent of miles in electric-only mode	33.0%	9.0%
Average trip aggressiveness (on scale 0 - 10)	1.9	1.8
Average trip distance (mi)	3.1	14.7
Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	48	49
Percent of miles in electric-only mode	26.0%	5.0%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.6
Average trip distance (mi)	6.5	36.0
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	34	41
Percent of miles in electric-only mode	23.0%	4.0%
Average trip aggressiveness (on scale 0 - 10)	1.7	1.4
Average trip distance (mi)	3.3	30.9



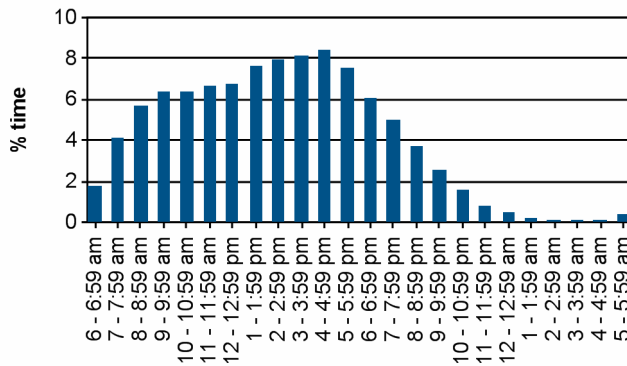
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



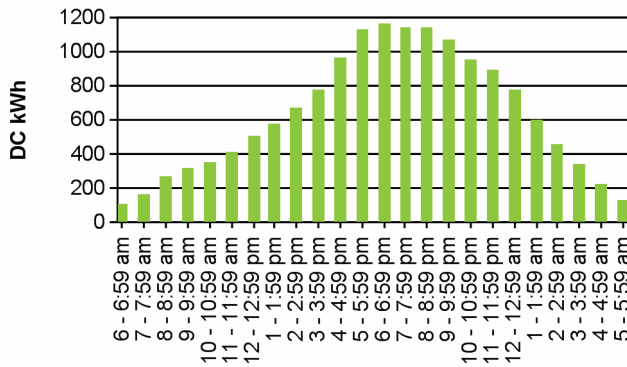
Plug-in charging

Average number of charging events per vehicle per month when driven	20
Average number of charging events per vehicle per day when vehicle driven	1.4
Average distance between charging events	29.8
Average number of trips between charging events	3.4
Average duration of charging event (hr)*	2.1
Average energy per charging event (DC kWh)	1.6
Average charging energy per vehicle per month (DC kWh)	32.2
Total number of charging events	9005
Total charging energy (DC kWh)	14577

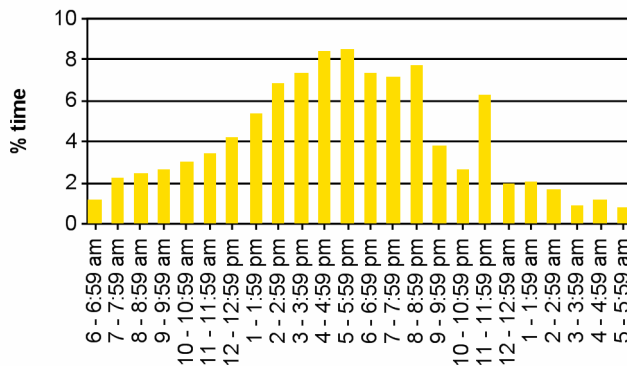
Time of Day When Driving



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 drawing power from the electrical grid. It does not necessarily represent the total duration when the vehicle was plugged in per charging event.