

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 184

Reporting Period: Apr 08 - Sept 11

Vehicle Technologies Program

Date range of data received:

4/18/2008 to 9/30/2011

Number of days the vehicles were driven: 1254

All Trips Combined

| | |
|--|-----------|
| Overall gasoline fuel economy (mpg) | 48 |
| Overall AC electrical energy consumption (AC Wh/mi) ¹ | 52 |
| Overall DC electrical energy consumption (DC Wh/mi) ² | 38 |
| Total number of trips | 310,808 |
| Total distance traveled (mi) | 2,899,288 |

Trips in Charge Depleting (CD) mode ³

| | |
|--|-----------|
| Gasoline fuel economy (mpg) | 62 |
| DC electrical energy consumption (DC Wh/mi) ⁴ | 142 |
| Number of trips | 125,321 |
| Percent of trips city / highway | 87% / 13% |
| Distance traveled (mi) | 569,686 |
| Percent of total distance traveled | 20% |

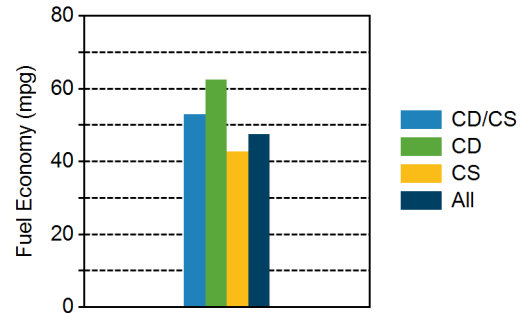
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes ⁵

| | |
|--|-----------|
| Gasoline fuel economy (mpg) | 53 |
| DC electrical energy consumption (DC Wh/mi) ⁶ | 49 |
| Number of trips | 22,078 |
| Percent of trips city / highway | 47% / 53% |
| Distance traveled (mi) | 576,256 |
| Percent of total distance traveled | 20% |

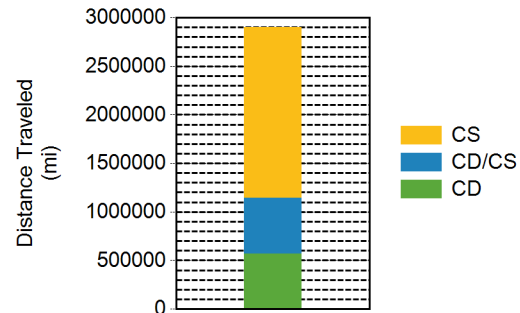
Trips in Charge Sustaining (CS) mode ⁷

| | |
|---|-----------|
| Gasoline fuel economy (mpg) | 43 |
| Number of trips | 163,400 |
| Percent of trips city / highway | 77% / 23% |
| Distance traveled (mi) | 1,756,775 |
| Percent of total distance traveled | 61% |
| Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸ | 13962 |
| Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹ | 299,452 |

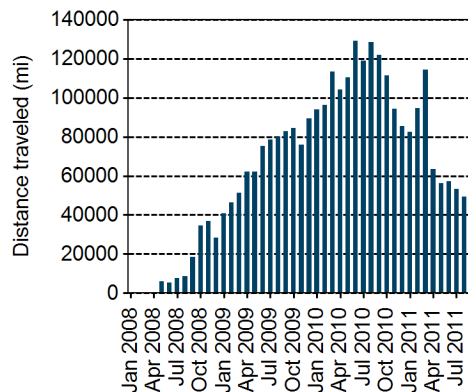
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Miles Logged by Month This Year



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

Trips in Charge Depleting (CD) mode

| | City | Highway |
|--|------|---------|
| Gasoline fuel economy (mpg) | 60 | 66 |
| DC electrical energy consumption (DC Wh/mi) | 166 | 109 |
| Percent of miles with internal combustion engine off | 33% | 15% |
| Average trip aggressiveness (on scale 0 - 10) | 1.8 | 1.8 |
| Average trip distance (mi) | 3.0 | 15.0 |

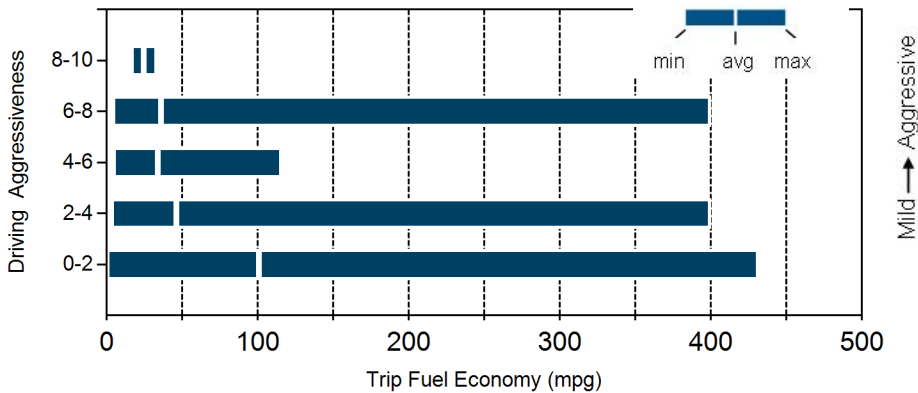
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes

| | | |
|--|-----|------|
| Gasoline fuel economy (mpg) | 53 | 53 |
| DC electrical energy consumption (DC Wh/mi) | 79 | 44 |
| Percent of miles with internal combustion engine off | 27% | 9% |
| Average trip aggressiveness (on scale 0 - 10) | 1.9 | 1.6 |
| Average trip distance (mi) | 8.6 | 41.7 |

Trips in Charge Sustaining (CS) mode

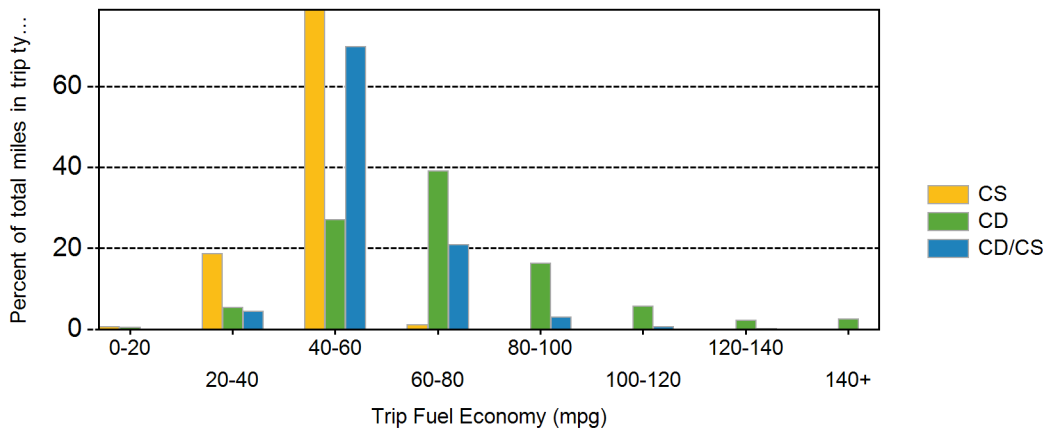
| | | |
|--|-----|------|
| Gasoline fuel economy (mpg) | 36 | 46 |
| Percent of miles with internal combustion engine off | 23% | 8% |
| Average trip aggressiveness (on scale 0 - 10) | 2.0 | 1.7 |
| Average trip distance (mi) | 3.5 | 35.2 |

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.

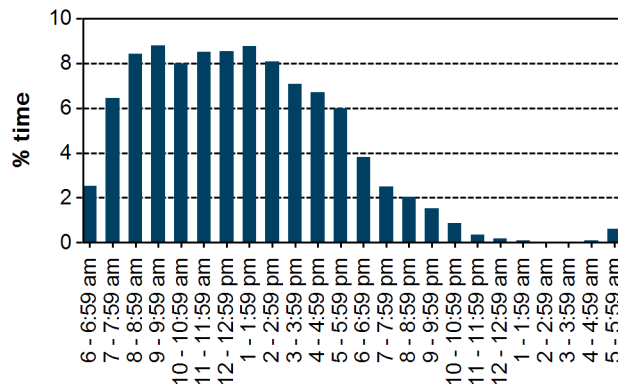
Trip Fuel Economy Distribution By Trip Type



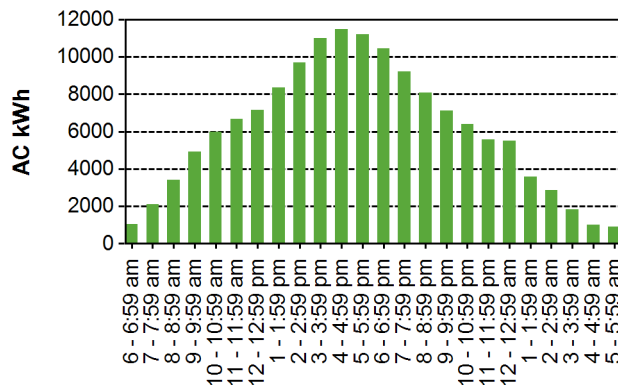
Plug-in charging

| | |
|---|---------|
| Average number of charging events per vehicle per month when driven | 13 |
| Average number of charging events per vehicle per day when vehicle driven | 0.9 |
| Average distance driven between charging events (mi) | 51.7 |
| Average number of trips between charging events | 5.5 |
| Average time plugged in per charging event (hr) | 24.3 |
| Average time charging per charging event (hr) | 2.7 |
| Average energy per charging event (AC kWh) | 2.7 |
| Average charging energy per vehicle per month (AC kWh) | 34.4 |
| Total number of charging events | 56,037 |
| Total charging energy (AC kWh) | 151,331 |

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

