

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 158

Reporting Period: November 2009

All Trips Combined

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|---|-----------|--|--|--|
| Overall gasoline fuel economy (mpg) | 47 | | | |
| Overall AC electrical energy consumption (AC Wh/mi) ¹ | 54 | | | |
| Overall DC electrical energy consumption (DC Wh/mi) ² | 37 | | | |
| Total number of trips | 8,056 | | | |
| Total distance traveled (mi) | 75,381 | | | |
| Trips in Charge Depleting (CD) mode ³ | | | | |
| Gasoline fuel economy (mpg) | 59 | | | |
| DC electrical energy consumption (DC Wh/mi) ⁴ | 141 | | | |
| Number of trips | 3,384 | | | |
| Percent of trips city / highway | 88% / 12% | | | |
| Distance traveled (mi) | 14,737 | | | |
| Percent of total distance traveled | 20% | | | |
| Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes ⁵ | | | | |
| Gasoline fuel economy (mpg) | 51 | | | |
| DC electrical energy consumption (DC Wh/mi) ⁶ | 42 | | | |
| Number of trips | 544 | | | |
| Percent of trips city / highway | 43% / 57% | | | |
| Distance traveled (mi) | 17,289 | | | |
| Percent of total distance traveled | 23% | | | |
| Trips in Charge Sustaining (CS) mode ⁷ | | | | |
| Gasoline fuel economy (mpg) | 43 | | | |
| Number of trips | 4,128 | | | |
| Percent of trips city / highway | 75% / 25% | | | |
| Distance traveled (mi) | 43,355 | | | |
| Percent of total distance traveled | 58% | | | |
| Number of trips when the plus is better, peek | 705 | | | |
| Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸ | 765 | | | |

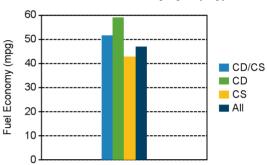
Vehicle Technologies Program

Date range of data received:

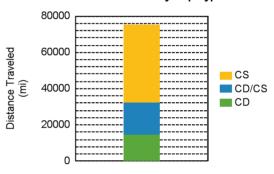
11/1/2009 to 11/30/2009

Number of days the vehicles were driven: 30

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type

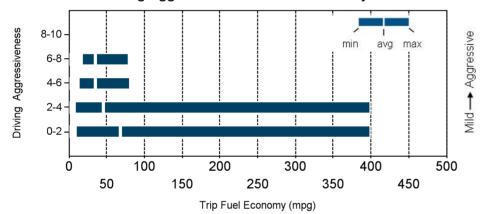


Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

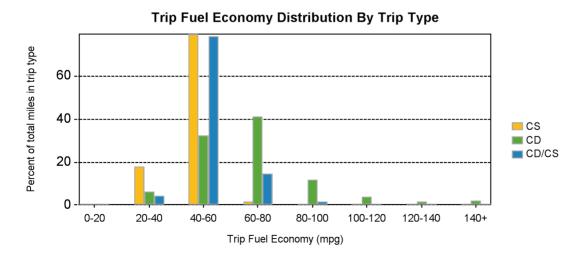
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| Trips in Charge Depleting (CD) mode | City | Highway |
|--|------|---------|
| Gasoline fuel economy (mpg) | 56 | 65 |
| DC electrical energy consumption (DC Wh/mi) | 162 | 110 |
| Percent of miles with internal combustion engine off | 24% | 7% |
| Average trip aggressiveness (on scale 0 - 10) | 1.8 | 1.9 |
| Average trip distance (mi) | 2.9 | 15.1 |
| Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes | | |
| Gasoline fuel economy (mpg) | 51 | 51 |
| DC electrical energy consumption (DC Wh/mi) | 67 | 38 |
| Percent of miles with internal combustion engine off | 20% | 3% |
| Average trip aggressiveness (on scale 0 - 10) | 1.9 | 1.7 |
| Average trip distance (mi) | 10.2 | 48.0 |
| Trips in Charge Sustaining (CS) mode | | |
| Gasoline fuel economy (mpg) | 37 | 45 |
| Percent of miles with internal combustion engine off | 20% | 4% |
| Average trip aggressiveness (on scale 0 - 10) | 1.8 | 1.8 |
| Average trip distance (mi) | 3.5 | 31.3 |

Effect Of Driving Aggressiveness on Fuel Economy This Year

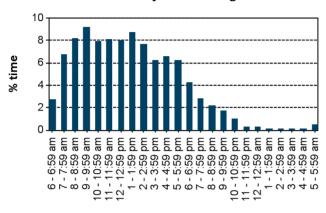


Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.

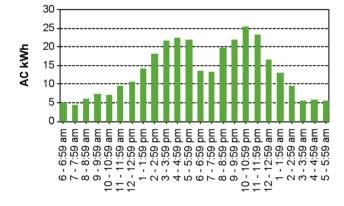


| Average number of charging events per vehicle per month when driven | 10 | |
|---|-------|--|
| Average number of charging events per vehicle per day when vehicle driven | 0.9 | |
| Average distance driven between charging events (mi) | 47.5 | |
| Average number of trips between charging events | 5.1 | |
| Average time plugged in per charging event (hr) | 25.2 | |
| Average time charging per charging event (hr) | 2.6 | |
| Average energy per charging event (AC kWh) | 2.5 | |
| Average charging energy per vehicle per month (AC kWh) | 26.4 | |
| Total number of charging events | 1,588 | |
| Total charging energy (AC kWh) | 4,036 | |
| | | |

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

