

Chrysler RAM PHEV Fleet

Number of vehicles: 66
Reporting period: Quarter 3, 2011

All Fleets

Date range of data received: 7/1/2011 to 9/30/2011
Number of vehicle days driven: 1182

All Trips Combined

Overall gasoline fuel economy (mpg)	18
Overall AC electrical energy consumption (AC Wh/mi) ¹	148
Overall DC electrical energy consumption (DC Wh/mi) ²	87
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	46
Total number of trips	6,223
Total distance traveled (mi)	31,204

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	22
DC electrical energy consumption (DC Wh/mi) ⁴	267
Number of trips	2,820
Percent of trips city highway	98% 2%
Distance traveled (mi)	8,298
Percent of total distance traveled	26%

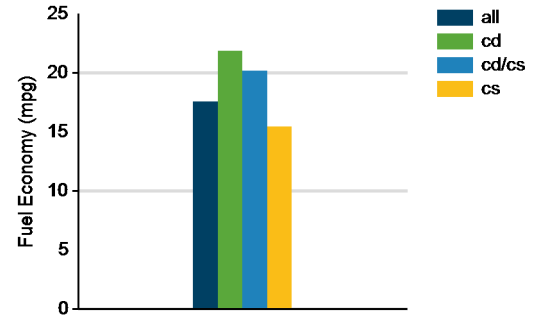
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) ⁶	105
Number of trips	336
Percent of trips city highway	83% 17%
Distance traveled CD CS (mi)	2,649 3,326
Percent of total distance traveled CD CS	8% 10%

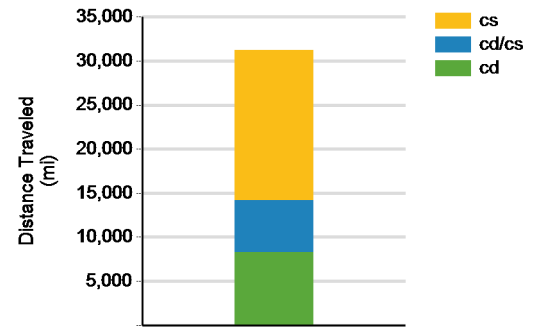
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	15
Number of trips	3,067
Percent of trips city highway	95% 5%
Distance traveled (mi)	16,995
Percent of total distance traveled	53%

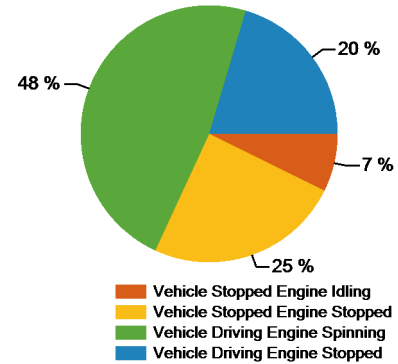
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Percent of Drive Time by Operating Mode



Notes: 1 - 9. Please see <http://avt.inl.gov/pdf/phev/chryslerreportnotes.pdf> for an explanation of all PHEV Fleet Testing Report notes. This document also includes all report changes to date.

The Chrysler RAM PHEV Fleet was designed as a demonstration program of customer duty cycles related to plug-in electric vehicles and may not necessarily demonstrate optimized fuel economy.

Vehicle fuel economy is based on customer usage and may not be representative of maximum potential fuel economy.

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	21	26
DC electrical energy consumption (DC Wh/mi)	287	159
Percent of miles with internal combustion engine off	24%	3%
Average trip Agressiveness	6	3.3
Average trip distance (mi)	3	21

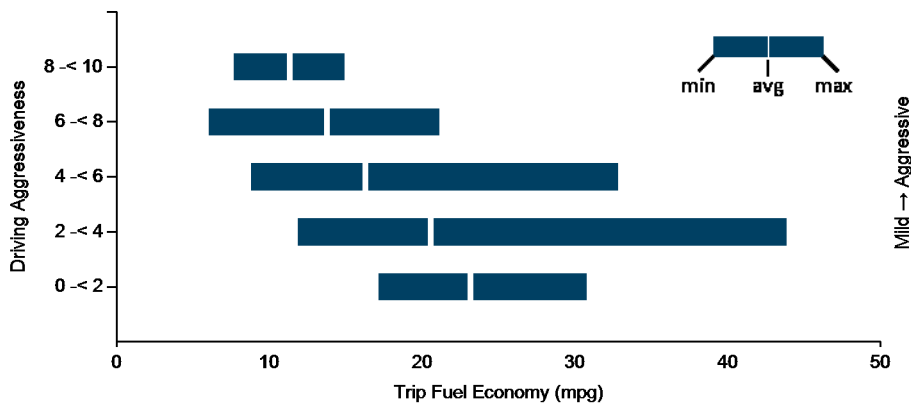
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	19	22
DC electrical energy consumption (DC Wh/mi)	136	63
Percent of miles with internal combustion engine off	18%	2%
Average trip Agressiveness	5.5	2.7
Average trip distance (mi)	12	45

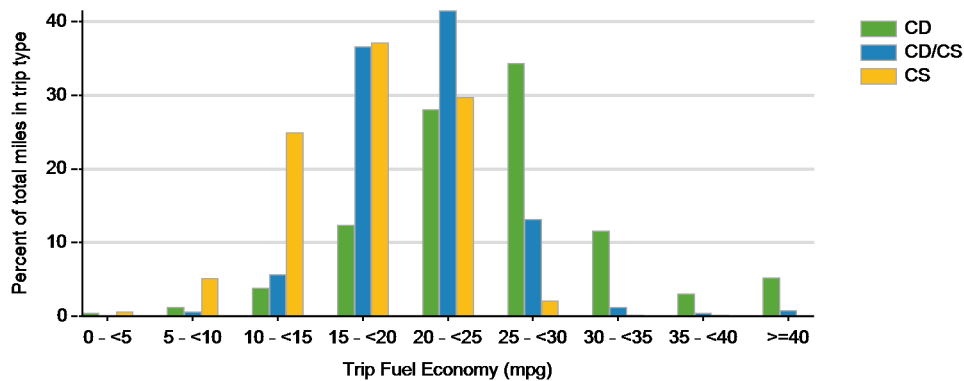
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	13	21
Percent of miles with internal combustion engine off	14%	2%
Average trip Agressiveness	5.9	2.4
Average trip distance (mi)	4	45

Effect of Driving Aggressiveness on Fuel Economy^a



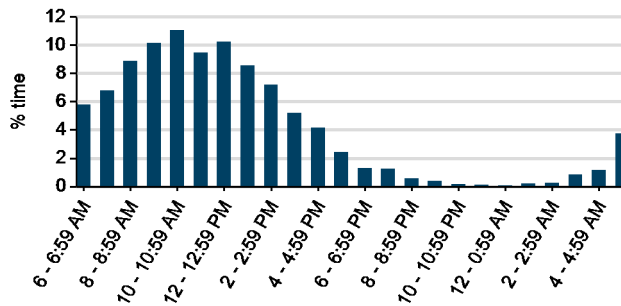
Trip Fuel Economy Distribution By Trip Type



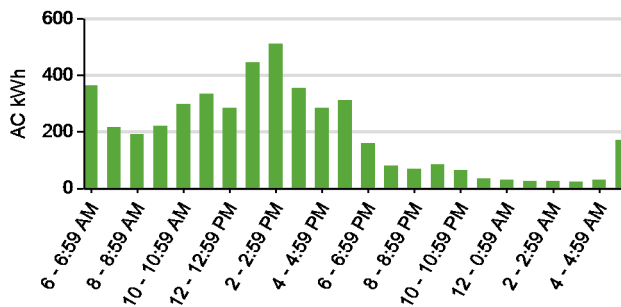
Plug-in charging

Average number of charging events per vehicle per month when driven	5.51	
Average number of charging events per vehicle per day when driven	0.63	
Average distance driven between charging events (mi)	41.94	
Average number of trips between charging events	8.36	
Average time charging per charging event (hr)	1.80	
Average energy per charging event (AC kWh)	6.22	
Average charging energy per vehicle per month (AC kWh)	34.27	
Total number of charging events	744	
Number of charging events at Level 1 Level 2	143	601
Total charging energy consumed (AC kWh)	4,626	
Charging energy consumed at Level 1 Level 2 (AC kWh)	606	4,020
Percent of total charging energy from Level 1 Level 2	13%	87%
Average time to charge from 20% to 100% SOC (hrs) Level 1 Level 2 ⁹	38.98	2.29

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

