

## Chrysler RAM PHEV Fleet

Number of vehicles: 104

Date range of data received: 2/1/2012 to 2/29/2012

Reporting period: February 2012

Number of vehicle days driven: 1912

### All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	104
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	70
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	43
Total number of trips	12,106
Total distance traveled (mi)	110,949

### Trips in Charge Depleting (CD) mode<sup>3</sup>

Gasoline fuel economy (mpg)	23
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	203
Number of trips	5,161
Percent of trips city   highway	94%   6%
Distance traveled (mi)	29,748
Percent of total distance traveled	27%

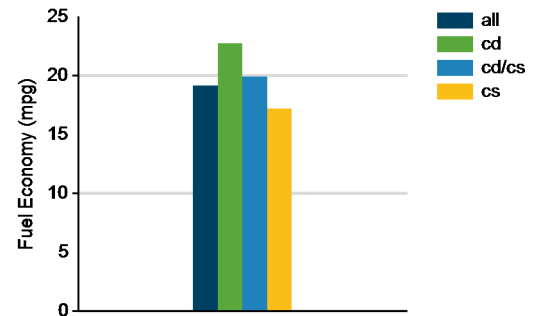
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	65
Number of trips	1,560
Percent of trips city   highway	76%   24%
Distance traveled CD   CS (mi)	10,771   18,612
Percent of total distance traveled CD   CS	10%   17%

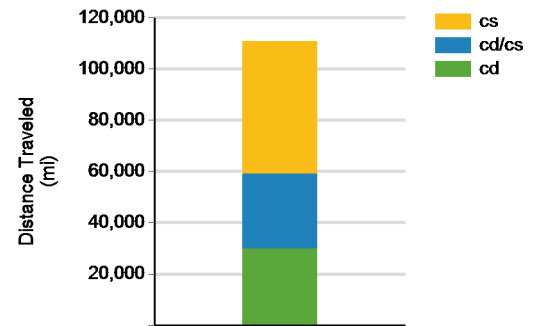
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Gasoline fuel economy (mpg)	17
Number of trips	5,385
Percent of trips city   highway	89%   11%
Distance traveled (mi)	51,917
Percent of total distance traveled	47%

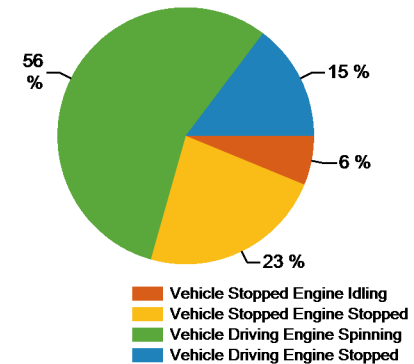
Gasoline Fuel Economy By Trip Type



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)	22	26
DC electrical energy consumption (DC Wh/mi)	217	164
Percent of miles with internal combustion engine off	15%	3%
Average trip Agressiveness	6.1	3.6
Percent of miles with air conditioning selected	81%	90%
Average trip distance (mi)	4	25

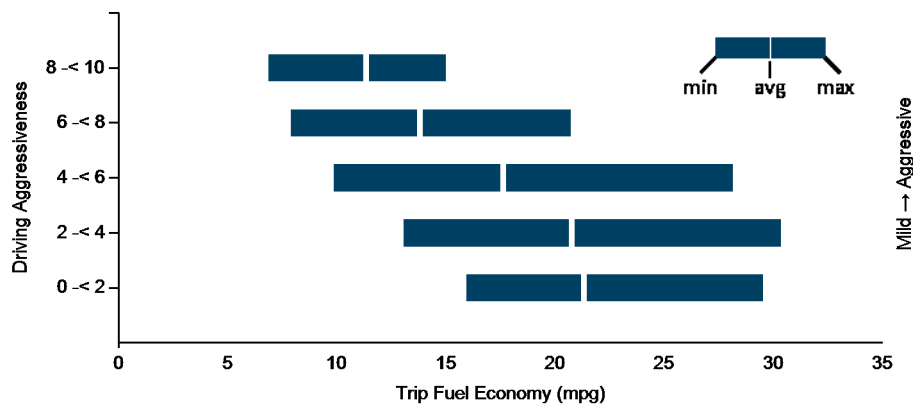
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	71	61
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.6	2.8
Percent of miles with air conditioning selected	85%	94%
Average trip distance (mi)	11	43

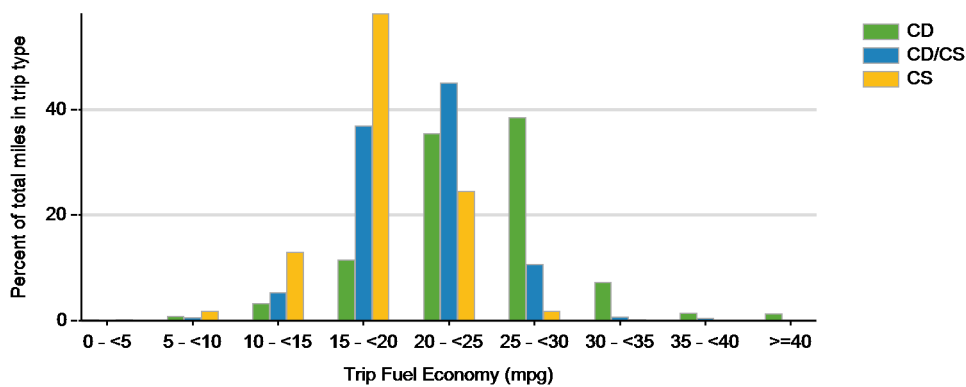
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	16	19
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.8	2.6
Percent of miles with air conditioning selected	82%	91%
Average trip distance (mi)	6	41

**Effect of Driving Aggressiveness on Fuel Economy<sup>a</sup>**



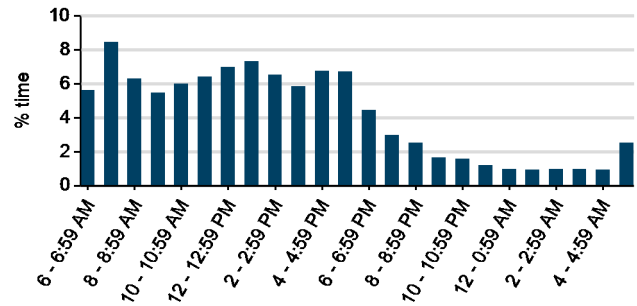
**Trip Fuel Economy Distribution By Trip Type**



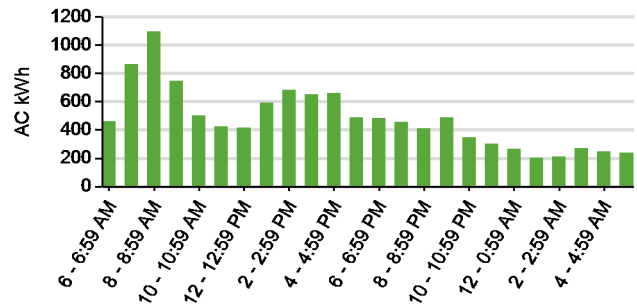
Plug-in charging

Average number of charging events per vehicle per month when driven	17.13	
Average number of charging events per vehicle per day when driven	0.93	
Average distance driven between charging events (mi)	62.30	
Average number of trips between charging events	6.80	
Average time charging per charging event (hr)	2.42	
Average energy per charging event (AC kWh)	6.47	
Average charging energy per vehicle per month (AC kWh)	110.75	
Total number of charging events	1,781	
Number of charging events at Level 1   Level 2	472	1304
Total charging energy consumed (AC kWh)	11,518	
Charging energy consumed at Level 1   Level 2 (AC kWh)	3,506	8,011
Percent of total charging energy from Level 1   Level 2	30%	70%
Average time to charge from 20% to 100% SOC (hrs) Level 1   Level 2 <sup>9</sup>	11.35	2.85

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

