

# Chrysler RAM PHEV Fleet

## All Fleets

Number of vehicles: 107

Date range of data received: 5/1/2012 to 5/31/2012

Reporting period: May 2012

Number of vehicle days driven: 1839

### All Trips Combined

Overall gasoline fuel economy (mpg)	21
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	93
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	71
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	40
Total number of trips	11,047
Total distance traveled (mi)	119,879

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

Gasoline fuel economy (mpg)	25
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	208
Number of trips	4,491
Percent of trips city   highway	92%   8%
Distance traveled (mi)	30,376
Percent of total distance traveled	25%

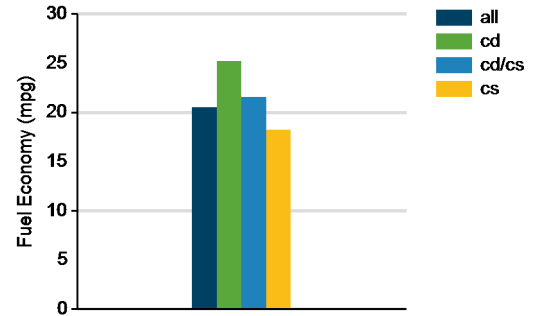
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	22
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	71
Number of trips	1,352
Percent of trips city   highway	69%   31%
Distance traveled CD   CS (mi)	12,772   20,001
Percent of total distance traveled CD   CS	11%   17%

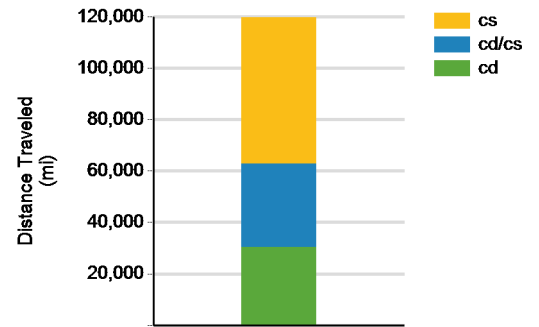
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Gasoline fuel economy (mpg)	18
Number of trips	5,204
Percent of trips city   highway	88%   12%
Distance traveled (mi)	56,912
Percent of total distance traveled	47%

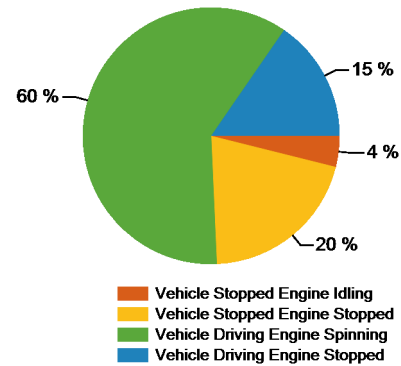
Gasoline Fuel Economy By Trip Type



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)	25	26
DC electrical energy consumption (DC Wh/mi)	234	152
Percent of miles with internal combustion engine off	14%	3%
Average trip Agressiveness	5.9	3.8
Average trip distance (mi)	5	27

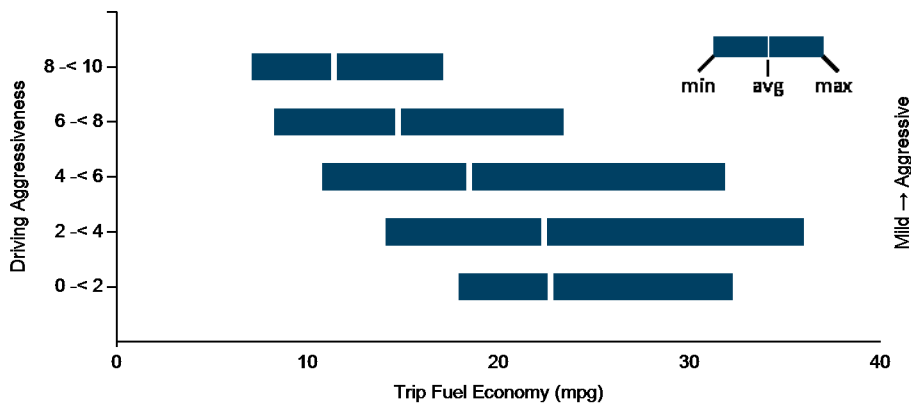
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	20	22
DC electrical energy consumption (DC Wh/mi)	90	59
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.2	2.9
Average trip distance (mi)	14	47

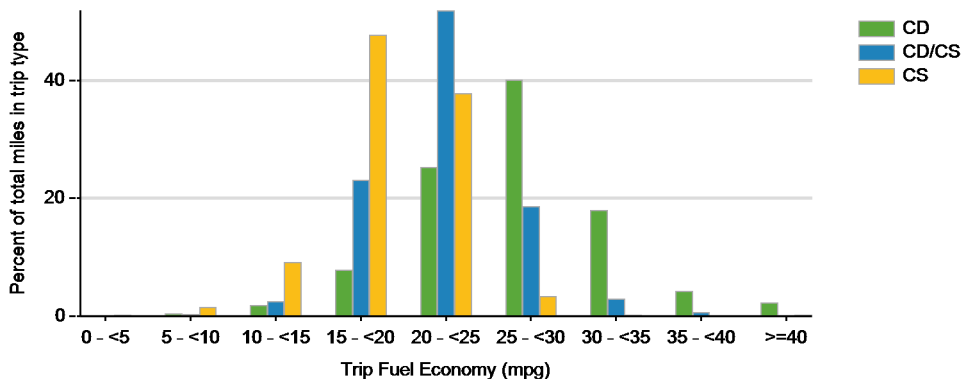
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	17	20
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.7	2.7
Average trip distance (mi)	6	43

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



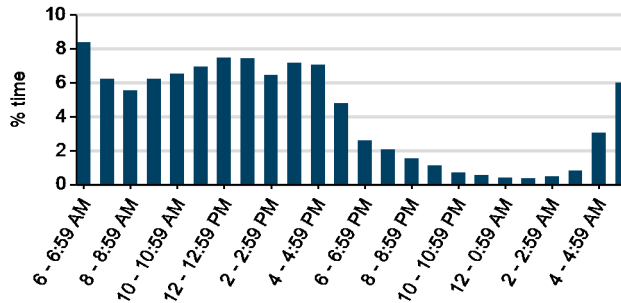
**Trip Fuel Economy Distribution By Trip Type**



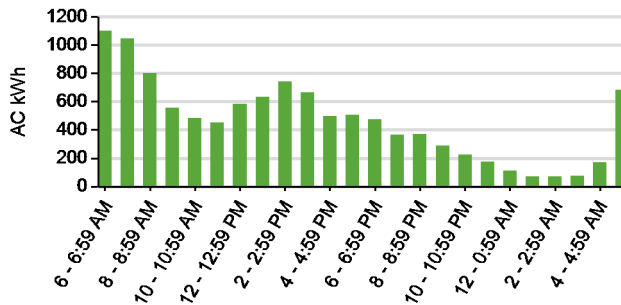
Plug-in charging

Average number of charging events per vehicle per month when driven	16.90	
Average number of charging events per vehicle per day when driven	0.98	
Average distance driven between charging events (mi)	66.30	
Average number of trips between charging events	6.11	
Average time charging per charging event (hr)	2.31	
Average energy per charging event (AC kWh)	6.18	
Average charging energy per vehicle per month (AC kWh)	104.36	
Total number of charging events	1,808	
Number of charging events at Level 1   Level 2	402	1396
Total charging energy consumed (AC kWh)	11,167	
Charging energy consumed at Level 1   Level 2 (AC kWh)	1,894	9,272
Percent of total charging energy from Level 1   Level 2	17%	83%
Average time to charge from 20% to 100% SOC (hrs) Level 1   Level 2	12.78	2.92

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

