

## Chrysler RAM PHEV Fleet

Number of vehicles: 100  
Reporting period: Quarter 4, 2011

### All Fleets

Date range of data received: 10/1/2011 to 12/31/2011  
Number of vehicle days driven: 3543

### All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	94
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	59
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	47
Total number of trips	21,661
Total distance traveled (mi)	187,757

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

Gasoline fuel economy (mpg)	22
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	215
Number of trips	8,343
Percent of trips city   highway	96%   4%
Distance traveled (mi)	40,037
Percent of total distance traveled	21%

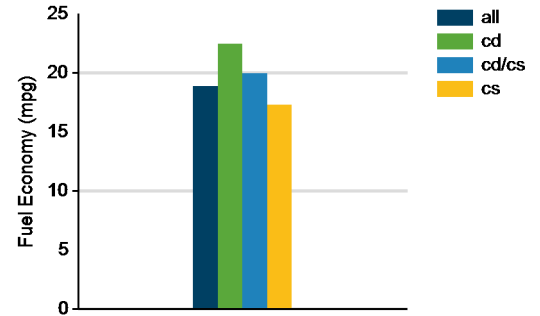
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	66
Number of trips	2,532
Percent of trips city   highway	80%   20%
Distance traveled CD   CS (mi)	16,036   29,676
Percent of total distance traveled CD   CS	9%   16%

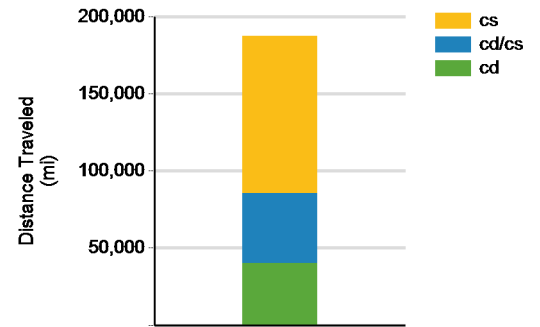
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Gasoline fuel economy (mpg)	17
Number of trips	10,786
Percent of trips city   highway	91%   9%
Distance traveled (mi)	102,063
Percent of total distance traveled	54%

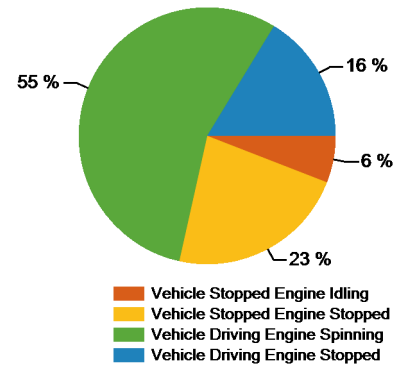
Gasoline Fuel Economy By Trip Type



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)	226	165
Percent of miles with internal combustion engine off	16%	3%
Average trip Agressiveness	6.1	3.7
Average trip distance (mi)	4	21

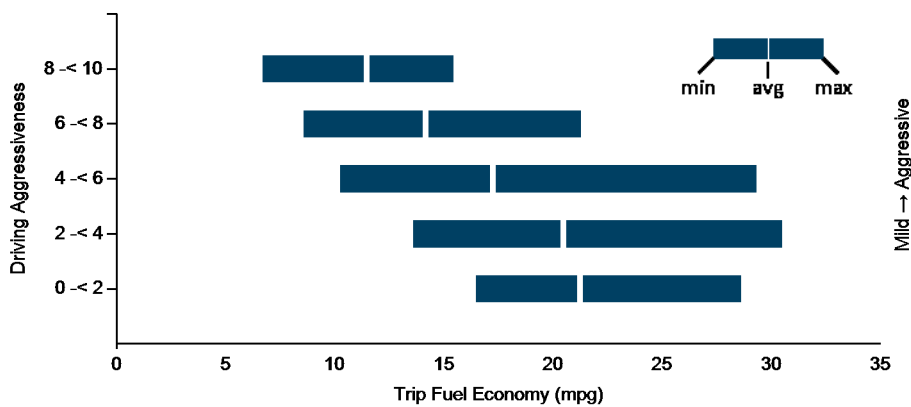
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	76	55
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	5.3	2.8
Average trip distance (mi)	12	42

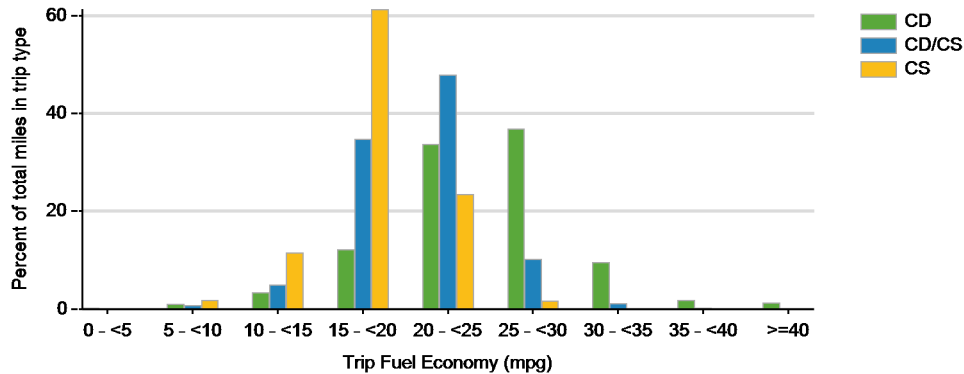
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	16	19
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.5	2.8
Average trip distance (mi)	6	39

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



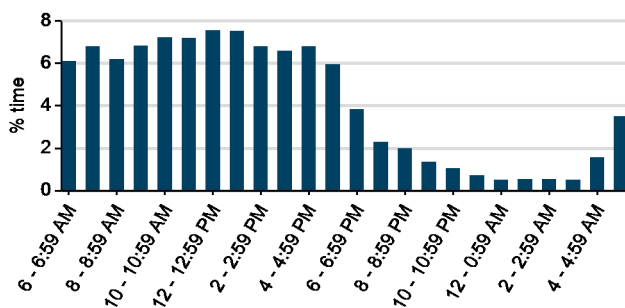
**Trip Fuel Economy Distribution By Trip Type**



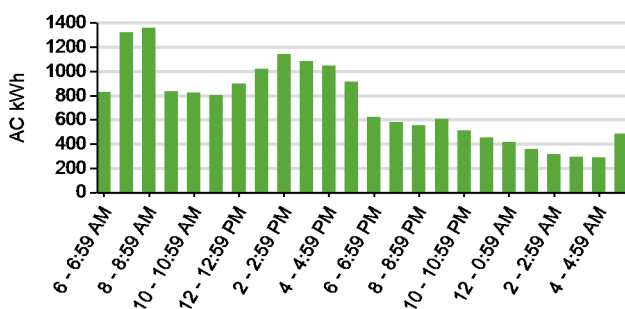
Plug-in charging

Average number of charging events per vehicle per month when driven	10.24	
Average number of charging events per vehicle per day when driven	0.73	
Average distance driven between charging events (mi)	72.49	
Average number of trips between charging events	8.36	
Average time charging per charging event (hr)	2.42	
Average energy per charging event (AC kWh)	6.78	
Average charging energy per vehicle per month (AC kWh)	69.45	
Total number of charging events	2,590	
Number of charging events at Level 1   Level 2	588	1990
Total charging energy consumed (AC kWh)	17,571	
Charging energy consumed at Level 1   Level 2 (AC kWh)	5,035	12,535
Percent of total charging energy from Level 1   Level 2	29%	71%
Average time to charge from 20% to 100% SOC (hrs) Level 1   Level 2 <sup>9</sup>	13.19	2.68

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

