

## Chrysler RAM PHEV Fleet

Number of vehicles: 37

Date range of data received: 8/1/2011 to 8/31/2011

Reporting period: August 2011

Number of vehicle days driven: 360

### All Trips Combined

Overall gasoline fuel economy (mpg)	17
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	190
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	111
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	50
Total number of trips	2,055
Total distance traveled (mi)	9,469

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

Gasoline fuel economy (mpg)	22
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	292
Number of trips	937
Percent of trips city   highway	98%   2%
Distance traveled (mi)	2,946
Percent of total distance traveled	31%

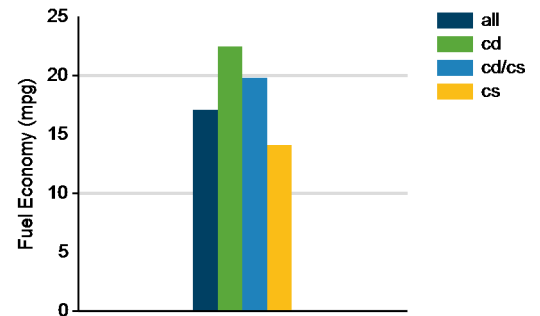
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	116
Number of trips	130
Percent of trips city   highway	83%   17%
Distance traveled CD   CS (mi)	910   1,060
Percent of total distance traveled CD   CS	9%   11%

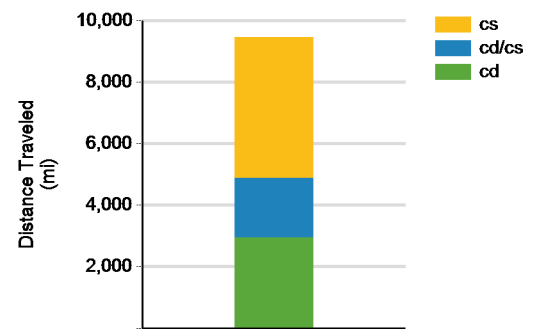
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Gasoline fuel economy (mpg)	14
Number of trips	988
Percent of trips city   highway	97%   3%
Distance traveled (mi)	4,590
Percent of total distance traveled	47%

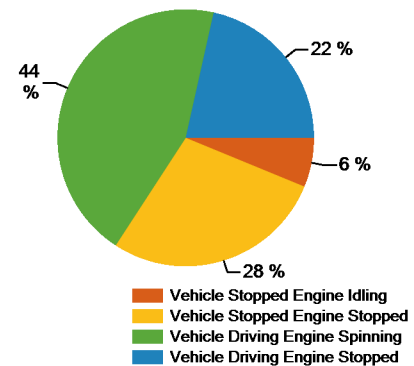
Gasoline Fuel Economy By Trip Type



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.

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	25
DC electrical energy consumption (DC Wh/mi)	314	156
Percent of miles with internal combustion engine off	24%	3%
Average trip Agressiveness	4.4	2.1
Percent of miles with air conditioning selected	86%	90%
Average trip distance (mi)	3	19

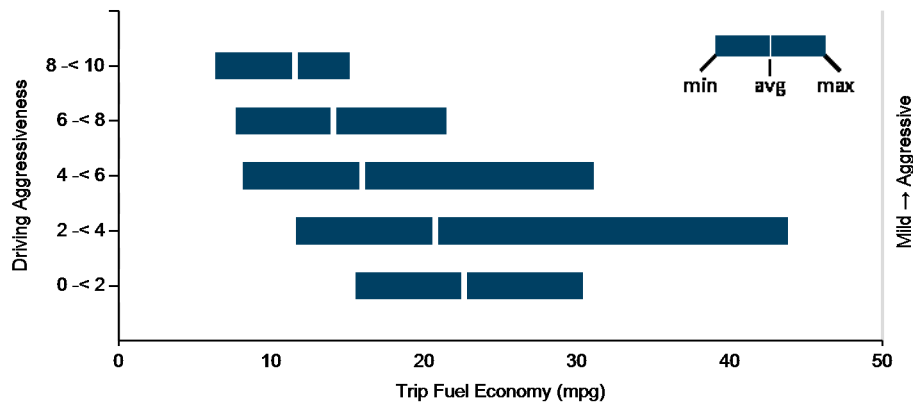
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	158	60
Percent of miles with internal combustion engine off	17%	2%
Average trip Agressiveness	4.1	1.8
Percent of miles with air conditioning selected	96%	77%
Average trip distance (mi)	10	37

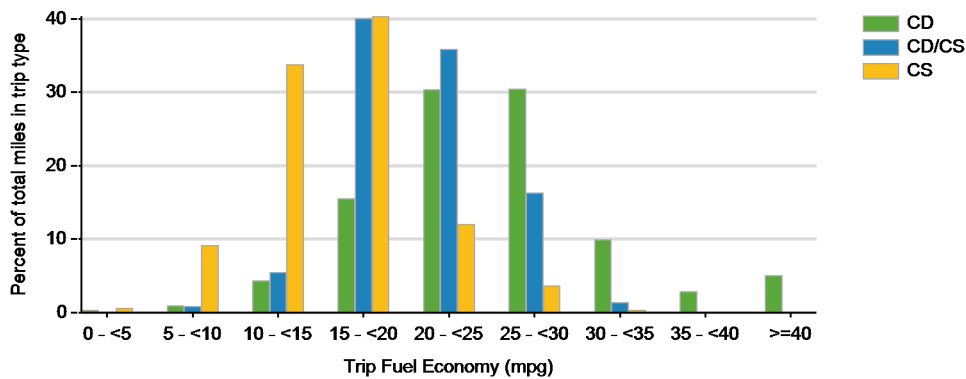
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	13	19
Percent of miles with internal combustion engine off	14%	2%
Average trip Agressiveness	4.3	1.8
Percent of miles with air conditioning selected	92%	95%
Average trip distance (mi)	3	43

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



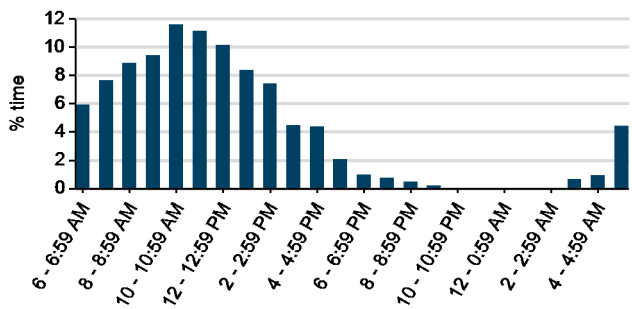
**Trip Fuel Economy Distribution By Trip Type**



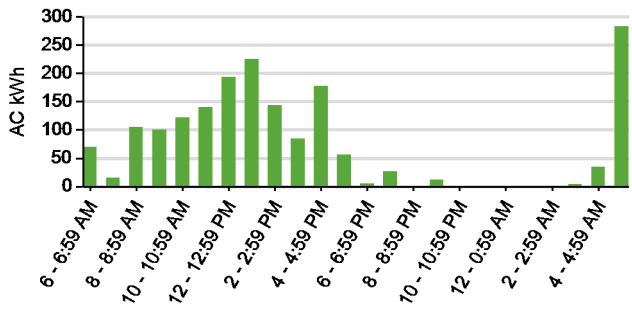
Plug-in charging

Average number of charging events per vehicle per month when driven	7.38	
Average number of charging events per vehicle per day when driven	0.76	
Average distance driven between charging events (mi)	34.69	
Average number of trips between charging events	7.53	
Average time charging per charging event (hr)	1.95	
Average energy per charging event (AC kWh)	6.61	
Average charging energy per vehicle per month (AC kWh)	48.74	
Total number of charging events	273	
Number of charging events at Level 1   Level 2	69	201
Total charging energy consumed (AC kWh)	1,803	
Charging energy consumed at Level 1   Level 2 (AC kWh)	245	1,558
Percent of total charging energy from Level 1   Level 2	14%	86%
Average time to charge from 20% to 100% SOC (hrs) Level 1   Level 2 <sup>9</sup>	35.76	2.31

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

