

## Chrysler RAM PHEV Fleet

Number of vehicles: 88

Date range of data received: 11/1/2011 to 11/30/2011

Reporting period: November 2011

Number of vehicle days driven: 1149

### All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	87
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	54
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	47
Total number of trips	6,560
Total distance traveled (mi)	57,719

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

Gasoline fuel economy (mpg)	23
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	207
Number of trips	2,464
Percent of trips city   highway	95%   5%
Distance traveled (mi)	12,138
Percent of total distance traveled	21%

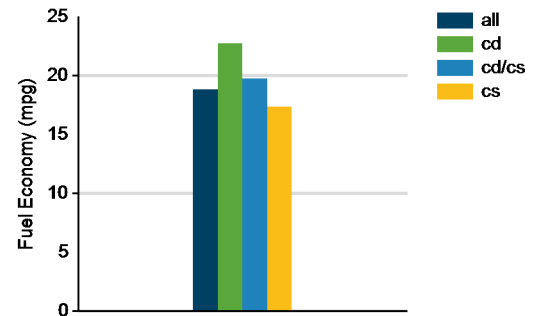
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	59
Number of trips	748
Percent of trips city   highway	80%   20%
Distance traveled CD   CS (mi)	4,336   8,818
Percent of total distance traveled CD   CS	8%   15%

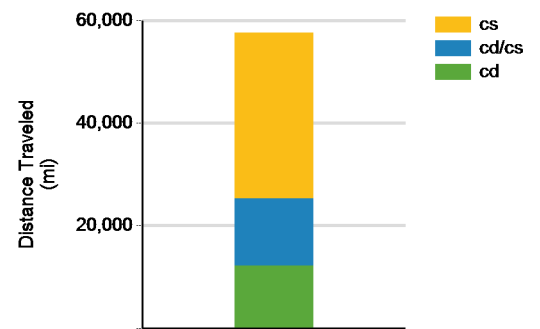
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Gasoline fuel economy (mpg)	17
Number of trips	3,348
Percent of trips city   highway	91%   9%
Distance traveled (mi)	32,454
Percent of total distance traveled	56%

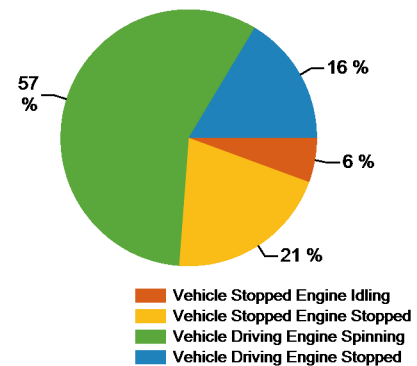
Gasoline Fuel Economy By Trip Type



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	26
DC electrical energy consumption (DC Wh/mi)	216	167
Percent of miles with internal combustion engine off	16%	4%
Average trip Agressiveness	4.4	2.3
Percent of miles with air conditioning selected	72%	74%
Average trip distance (mi)	4	20

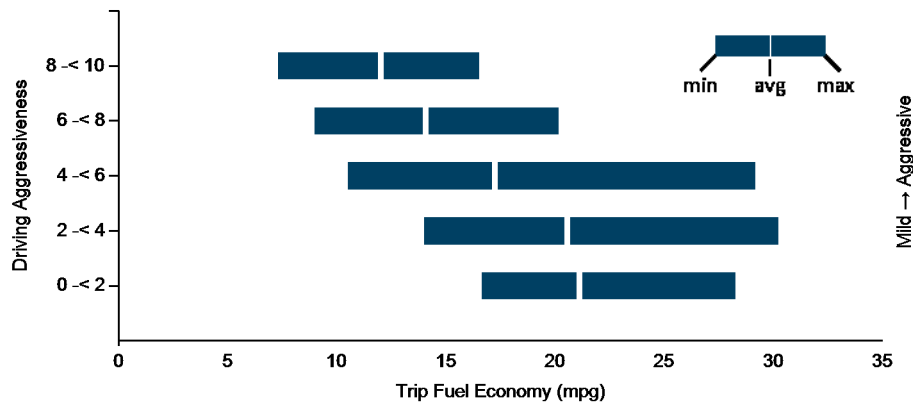
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	20	20
DC electrical energy consumption (DC Wh/mi)	69	48
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	4	2
Percent of miles with air conditioning selected	78%	88%
Average trip distance (mi)	12	42

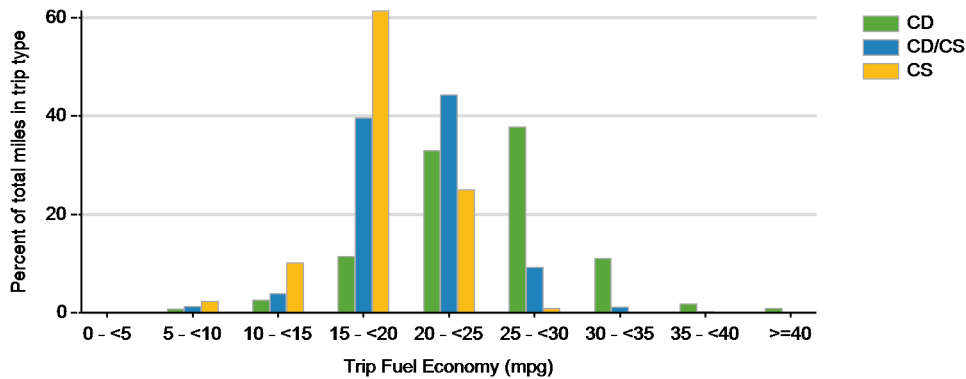
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	17	18
Percent of miles with internal combustion engine off	11%	1%
Average trip Agressiveness	4.2	2
Percent of miles with air conditioning selected	84%	94%
Average trip distance (mi)	6	41

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



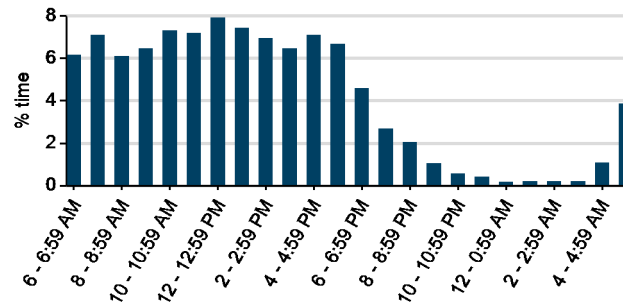
**Trip Fuel Economy Distribution By Trip Type**



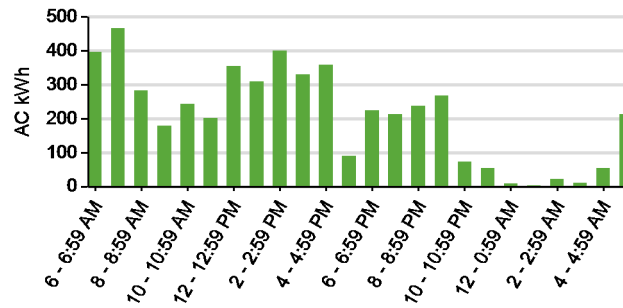
Plug-in charging

Average number of charging events per vehicle per month when driven	9.61	
Average number of charging events per vehicle per day when driven	0.73	
Average distance driven between charging events (mi)	69.04	
Average number of trips between charging events	7.85	
Average time charging per charging event (hr)	2.21	
Average energy per charging event (AC kWh)	5.98	
Average charging energy per vehicle per month (AC kWh)	57.43	
Total number of charging events	836	
Number of charging events at Level 1   Level 2	176	644
Total charging energy consumed (AC kWh)	4,996	
Charging energy consumed at Level 1   Level 2 (AC kWh)	1,577	3,419
Percent of total charging energy from Level 1   Level 2	32%	68%
Average time to charge from 20% to 100% SOC (hrs) Level 1   Level 2 <sup>9</sup>	12.86	2.75

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

