

Chrysler RAM PHEV Fleet

Number of vehicles: 107

Date range of data received: 4/1/2012 to 4/30/2012

Reporting period: April 2012

Number of vehicle days driven: 1978

All Trips Combined

Overall gasoline fuel economy (mpg)	20
Overall AC electrical energy consumption (AC Wh/mi) ¹	94
Overall DC electrical energy consumption (DC Wh/mi) ²	72
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	44
Total number of trips	13,043
Total distance traveled (mi)	130,525

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	24
DC electrical energy consumption (DC Wh/mi) ⁴	208
Number of trips	5,536
Percent of trips city highway	93% 7%
Distance traveled (mi)	33,601
Percent of total distance traveled	26%

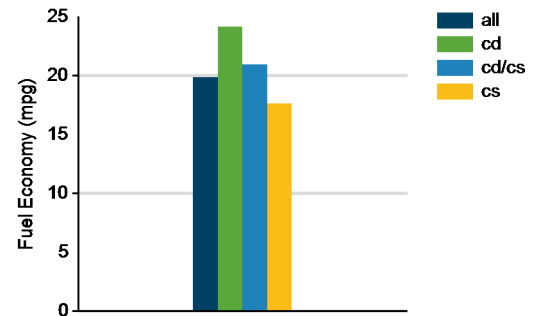
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	21
DC electrical energy consumption (DC Wh/mi) ⁶	69
Number of trips	1,486
Percent of trips city highway	69% 31%
Distance traveled CD CS (mi)	13,694 22,247
Percent of total distance traveled CD CS	10% 17%

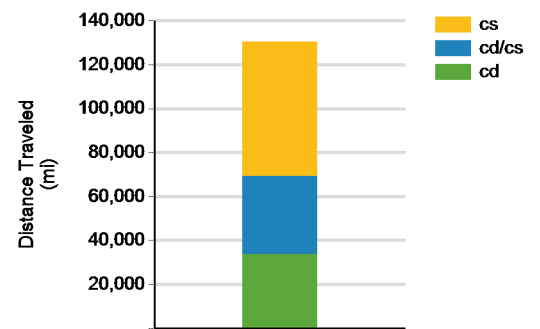
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	18
Number of trips	6,021
Percent of trips city highway	88% 12%
Distance traveled (mi)	61,148
Percent of total distance traveled	47%

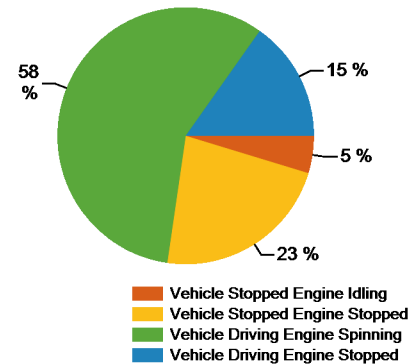
Gasoline Fuel Economy By Trip Type



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)	24	26
DC electrical energy consumption (DC Wh/mi)	228	160
Percent of miles with internal combustion engine off	15%	3%
Average trip Agressiveness	6.1	3.8
Average trip distance (mi)	5	25

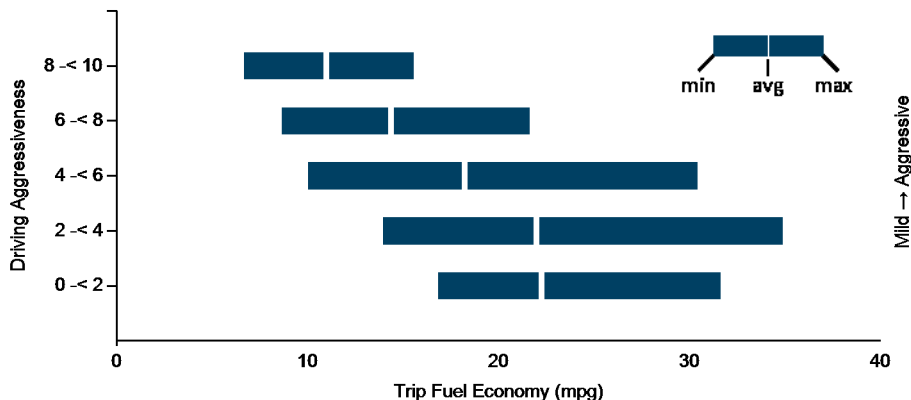
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	20	22
DC electrical energy consumption (DC Wh/mi)	89	57
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	5.5	2.8
Average trip distance (mi)	13	49

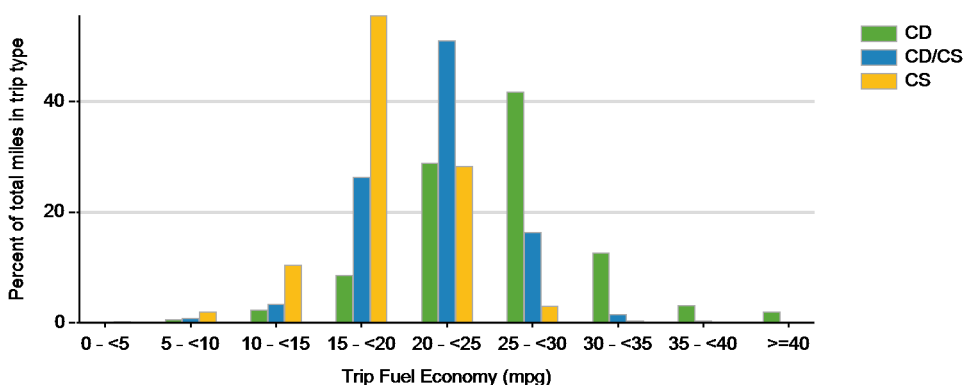
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	16	20
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	6	2.7
Average trip distance (mi)	6	42

Effect of Driving Aggressiveness on Fuel Economy*



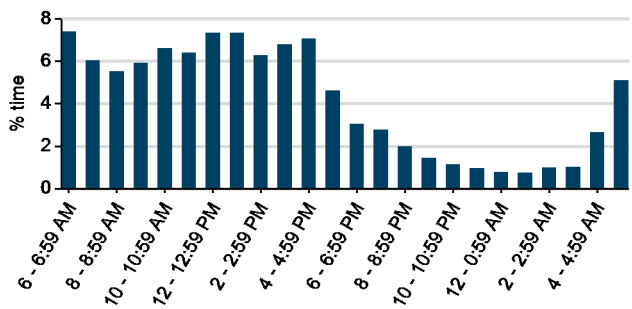
Trip Fuel Economy Distribution By Trip Type



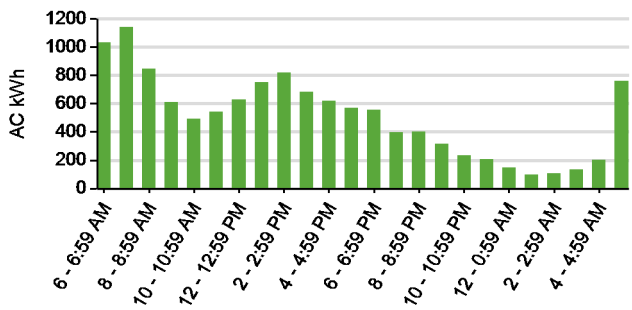
Plug-in charging

Average number of charging events per vehicle per month when driven	18.93	
Average number of charging events per vehicle per day when driven	1.02	
Average distance driven between charging events (mi)	64.46	
Average number of trips between charging events	6.44	
Average time charging per charging event (hr)	2.27	
Average energy per charging event (AC kWh)	6.08	
Average charging energy per vehicle per month (AC kWh)	115.06	
Total number of charging events	2,025	
Number of charging events at Level 1 Level 2	463	1558
Total charging energy consumed (AC kWh)	12,311	
Charging energy consumed at Level 1 Level 2 (AC kWh)	1,995	10,316
Percent of total charging energy from Level 1 Level 2	16%	84%
Average time to charge from 20% to 100% SOC (hrs) Level 1 Level 2 ⁹	12.17	2.84

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

