

Chrysler RAM PHEV Fleet

Number of vehicles: 108

Date range of data received: 7/1/2011 to 4/30/2012

Reporting period: Jul 11 - Apr 12

Number of vehicle days driven: 12425

All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi) ¹	101
Overall DC electrical energy consumption (DC Wh/mi) ²	69
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	45
Total number of trips	77,676
Total distance traveled (mi)	693,160

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	23
DC electrical energy consumption (DC Wh/mi) ⁴	210
Number of trips	32,475
Percent of trips city highway	94% 6%
Distance traveled (mi)	175,126
Percent of total distance traveled	25%

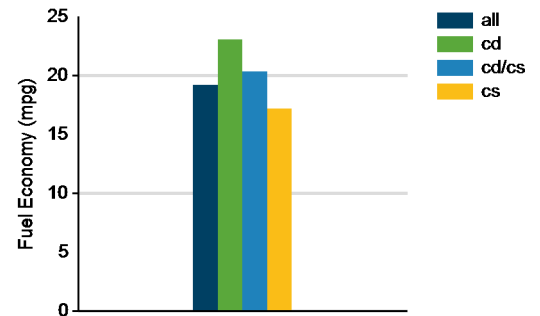
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	20
DC electrical energy consumption (DC Wh/mi) ⁶	69
Number of trips	8,887
Percent of trips city highway	75% 25%
Distance traveled CD CS (mi)	111,533
Percent of total distance traveled CD CS	9% 16%

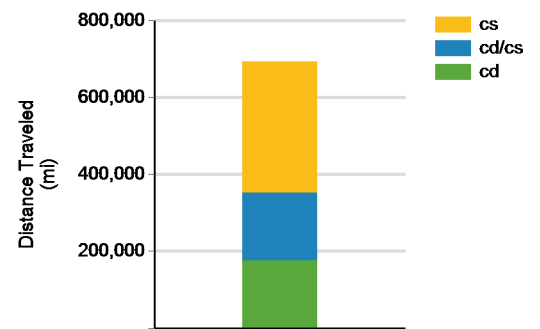
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	17
Number of trips	36,314
Percent of trips city highway	90% 10%
Distance traveled (mi)	341,354
Percent of total distance traveled	49%

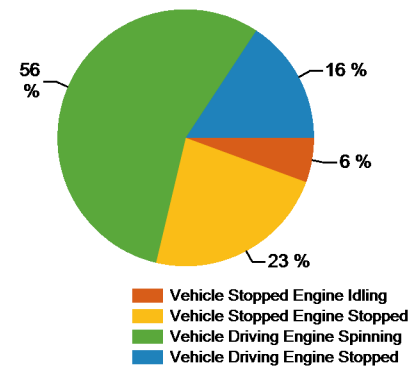
Gasoline Fuel Economy By Trip Type



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)	227	163
Percent of miles with internal combustion engine off	16%	3%
Average trip Agressiveness	6.1	3.7
Average trip distance (mi)	4	24

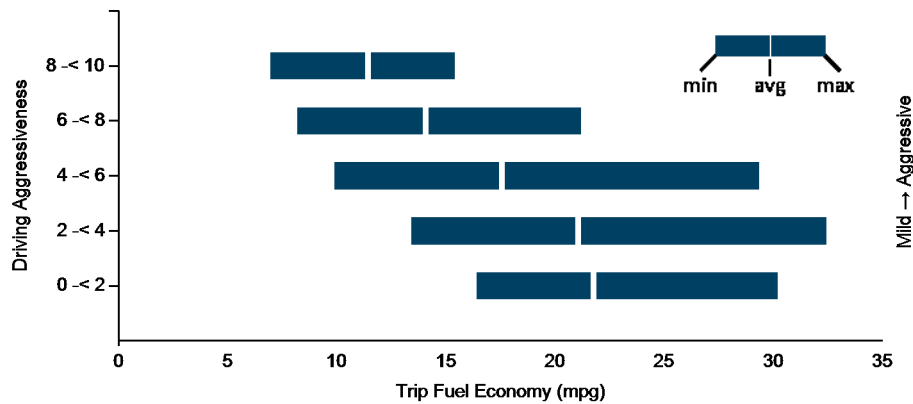
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	81	58
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	5.4	2.8
Average trip distance (mi)	12	45

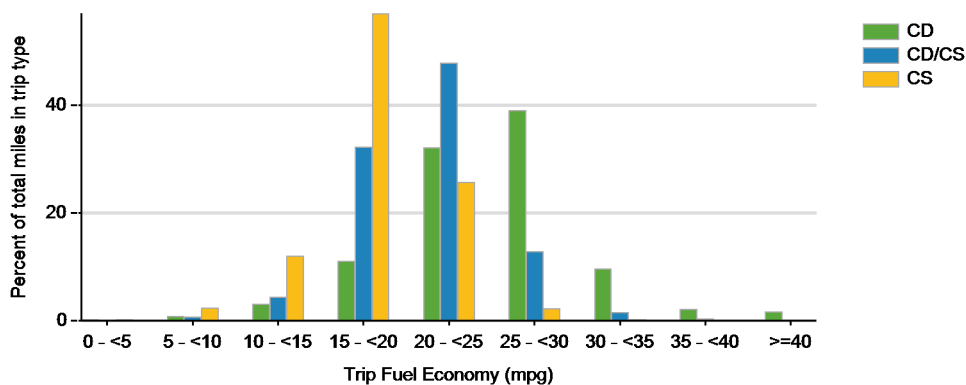
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	16	19
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.7	2.7
Average trip distance (mi)	6	41

Effect of Driving Aggressiveness on Fuel Economy^a



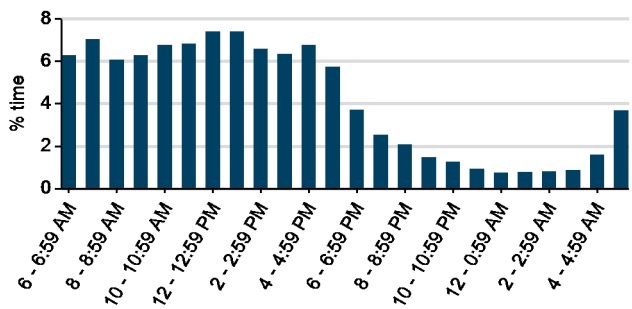
Trip Fuel Economy Distribution By Trip Type



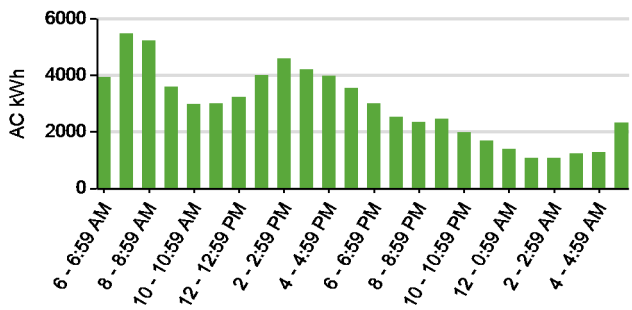
Plug-in charging

Average number of charging events per vehicle per month when driven	13.53	
Average number of charging events per vehicle per day when driven	0.88	
Average distance driven between charging events (mi)	63.63	
Average number of trips between charging events	7.13	
Average time charging per charging event (hr)	2.36	
Average energy per charging event (AC kWh)	6.45	
Average charging energy per vehicle per month (AC kWh)	87.33	
Total number of charging events	10,894	
Number of charging events at Level 1 Level 2	2,639	8214
Total charging energy consumed (AC kWh)	70,304	
Charging energy consumed at Level 1 Level 2 (AC kWh)	17,745	52,558
Percent of total charging energy from Level 1 Level 2	25%	75%
Average time to charge from 20% to 100% SOC (hrs) Level 1 Level 2 ⁹	12.38	2.77

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

