Chrysler RAM PHEV Fleet

Number of vehicles: 108

Reporting period: Quarter 1, 2012

All Fleets

Date range of data received: 1/1/2012 to 3/31/2012

Number of vehicle days driven: 5722

All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi)[1]	104
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	36,749
Total distance traveled (mi)	343,675

Trips in Charge Depleting (CD) mode[3]

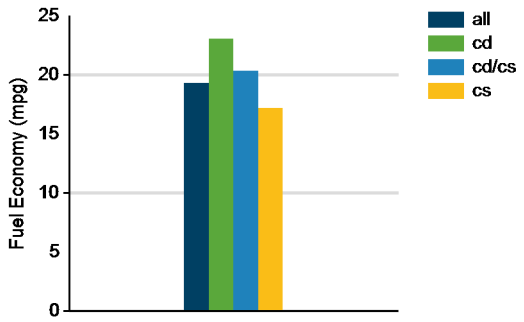
Gasoline fuel economy (mpg)		23
DC electrical energy consumption (DC Wh/mi)[4]		204
Number of trips		15,776
Percent of trips city | highway	94% |	6%
Distance traveled (mi)		93,190
Percent of total distance traveled		27%

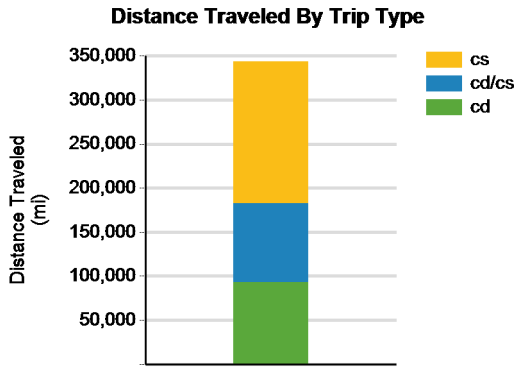
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes[5]

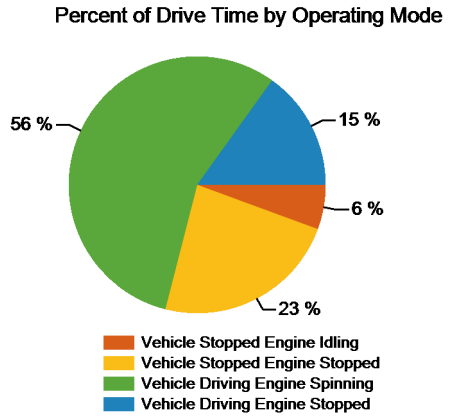
Gasoline fuel economy (mpg)		20
DC electrical energy consumption (DC Wh/mi)[6]		68
Number of trips		4,533
Percent of trips city | highway	75% |	25%
Distance traveled CD | CS (mi)	33,240 |	56,285
Percent of total distance traveled CD | CS	10% |	16%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)		17
Number of trips		16,440
Percent of trips city | highway	89% |	11%
Distance traveled (mi)		161,148
Percent of total distance traveled		47%







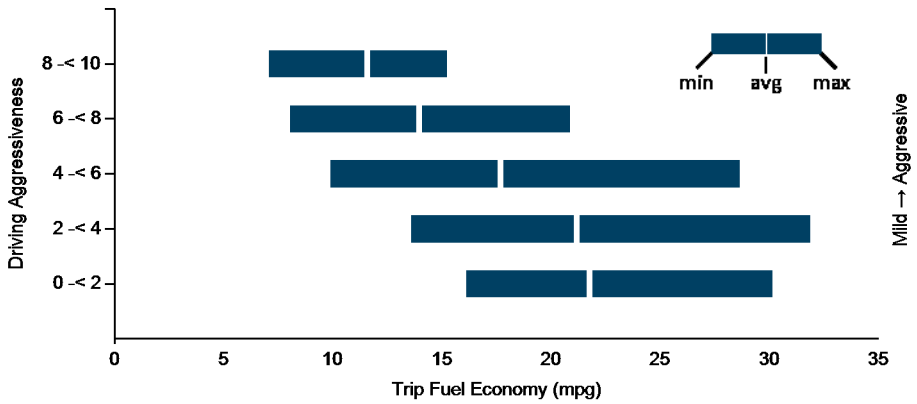
Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/chryslerreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes. This document also includes all report changes to date.

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.

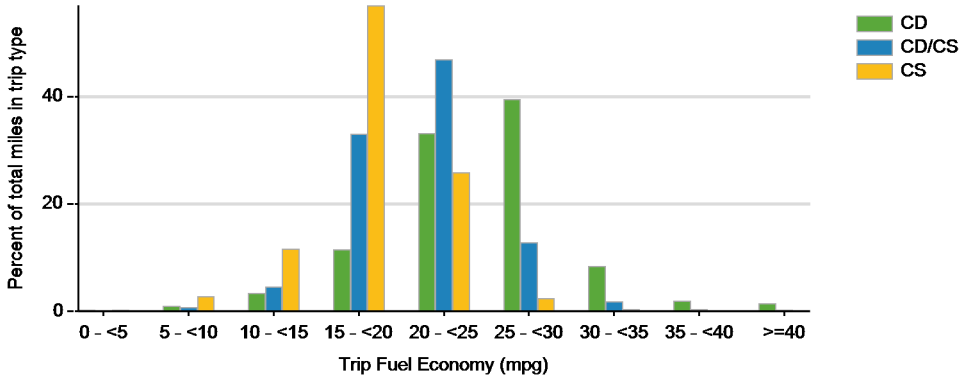
Vehicle fuel economy is based on customer usage and may not be representative of maximum potential fuel economy.

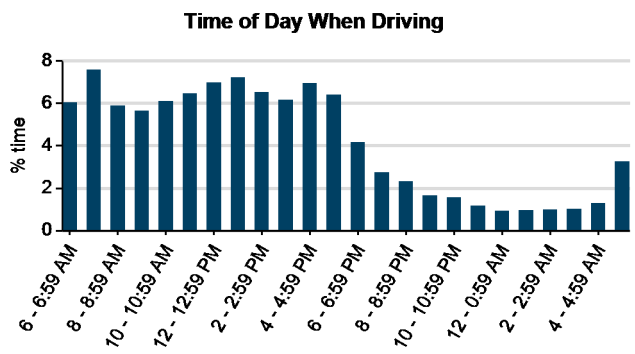
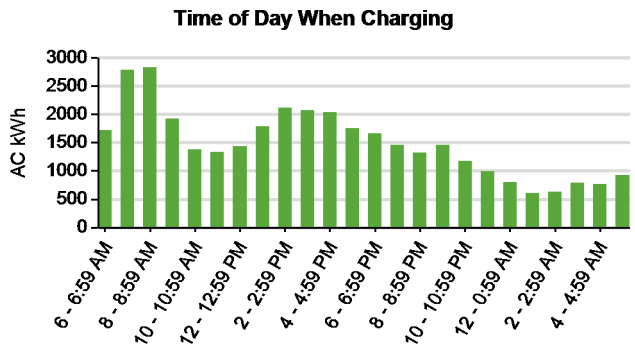
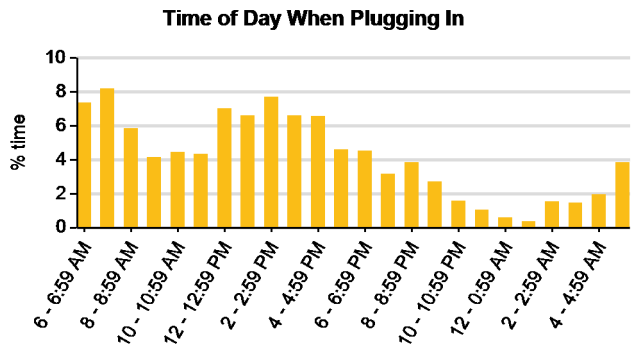
Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	22	26
DC electrical energy consumption (DC Wh/mi)	220	163
Percent of miles with internal combustion engine off	15%	3%
Average trip Agressiveness	6.1	3.6
Average trip distance (mi)	5	25
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	77	61
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	5.5	2.8
Average trip distance (mi)	11	44
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	5.8	2.6
Average trip distance (mi)	6	42

Effect of Driving Aggressiveness on Fuel Economy[8]



Trip Fuel Economy Distribution By Trip Type



Plug-in charging

Average number of charging events per vehicle per month when driven			17.85
Average number of charging events per vehicle per day when driven			0.97
Average distance driven between charging events (mi)			62.09
Average number of trips between charging events			6.64
Average time charging per charging event (hr)			2.44
Average energy per charging event (AC kWh)			6.47
Average charging energy per vehicle per month (AC kWh)			115.47
Total number of charging events			5,535
Number of charging events at Level 1 | Level 2	1,445	|	4065
Total charging energy consumed (AC kWh)			35,796
Charging energy consumed at Level 1 | Level 2 (AC kWh)	10,109	|	25,686
Percent of total charging energy from Level 1 | Level 2	28%	|	72%
Average time to charge from 20% to 100% SOC (hrs) Level 1 | Level 2[9]	11.54	|	2.84