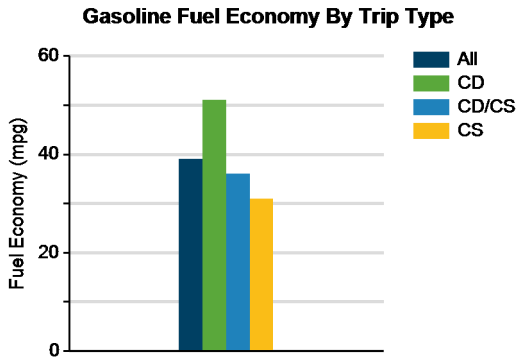
Ford Escape Advanced Research Fleet

Number of vehicles:	19	Date range of data received:	04/01/2012 to 04/30/2012
Reporting period:	April 2012	Number of vehicle days driven:	293

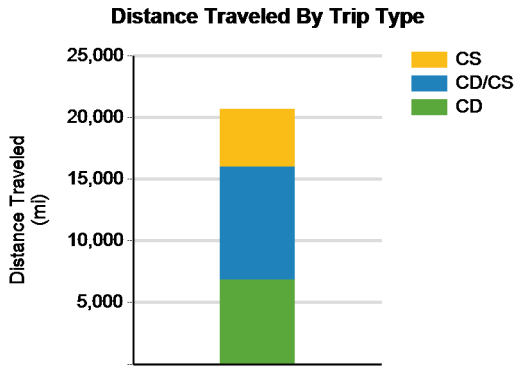
All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi)[1]	100
Overall DC electrical energy consumption (DC Wh/mi)[2]	72
Total number of trips	1,755
Total distance traveled (mi)	20,687



Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	51
DC electrical energy consumption (DC Wh/mi)[4]	154
Number of trips	1,123
Percent of trips city | highway	78% | 22%
Distance traveled (mi)	6,858
Percent of total distance traveled	33%



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

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi)[6]	51
Number of trips	303
Percent of trips city | highway	39% | 61%
Distance traveled (mi)	9,128
Percent of total distance traveled	44%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	31
Number of trips	329
Percent of trips city | highway	65% | 35%
Distance traveled (mi)	4,702
Percent of total distance traveled	23%

Notes: 1 - 7. Please see http://avt.inl.gov/pdf/phev/fordreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	43	58
DC electrical energy consumption (DC Wh/mi)	138	165
Percent of miles with internal combustion engine off	30%	11%
Average trip driving intensity (Wh/mi)	295	321
Average trip distance (mi)	3	17

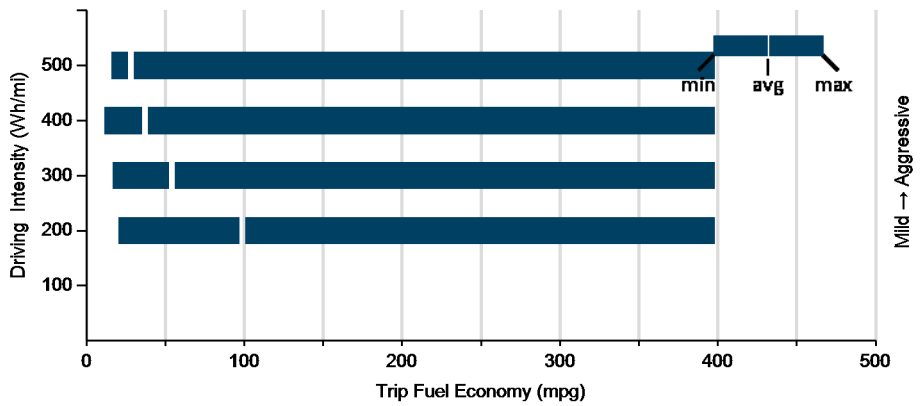
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	57	35
DC electrical energy consumption (DC Wh/mi)	111	44
Percent of miles with internal combustion engine off	35%	5%
Average trip driving intensity (Wh/mi)	283	341
Average trip distance (mi)	8	44

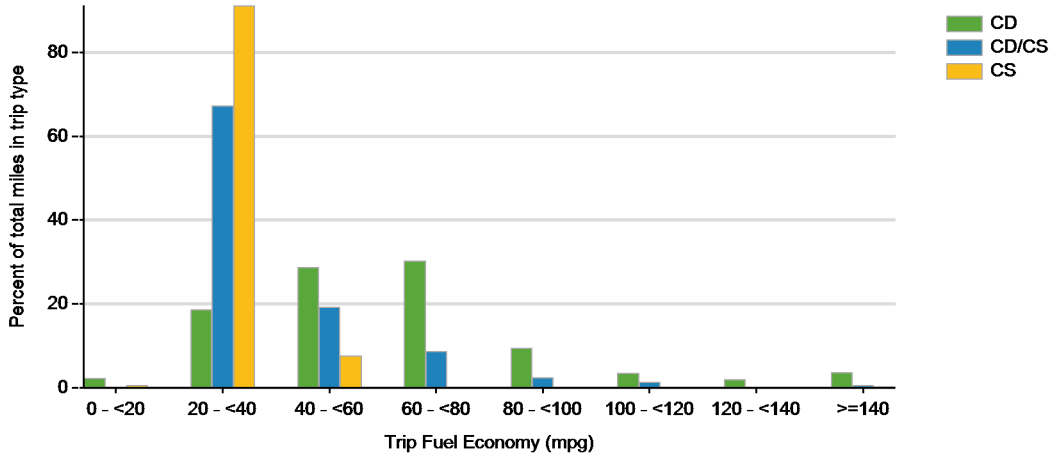
Trips in Charge Sustaining (CS) mode

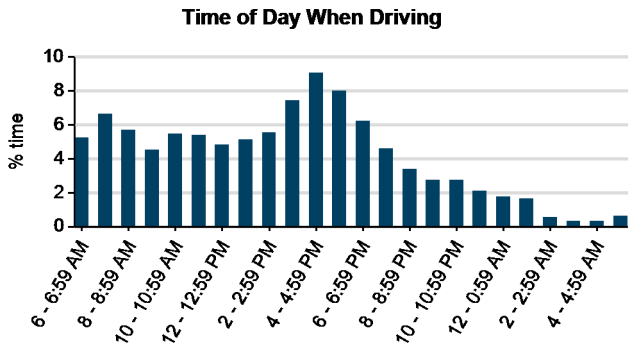
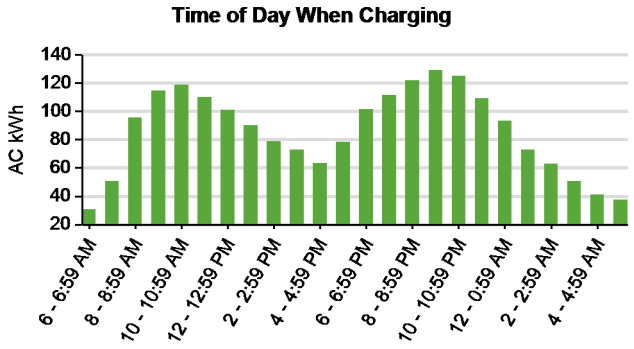
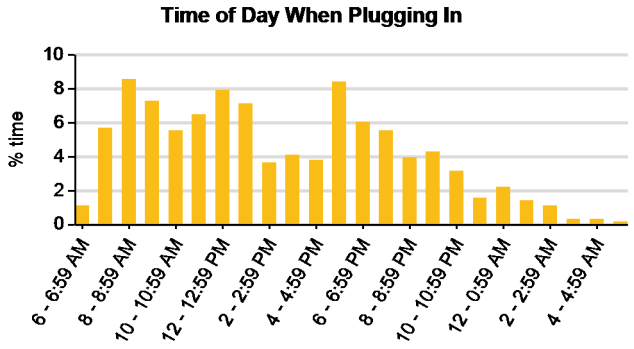
Gasoline fuel economy (mpg)	33	31
Percent of miles with internal combustion engine off	30%	4%
Average trip driving intensity (Wh/mi)	285	348
Average trip distance (mi)	3	36

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



Trip Fuel Economy Distribution By Trip Type



Plug-in charging

Average number of charging events per vehicle per month when driven	35
Average number of charging events per vehicle per day when driven	2.2
Average distance driven between charging events (mi)	32.8
Average number of trips between charging events	2.8
Average time plugged in per charging event (hr)	6.4
Average time charging per charging event (hr)	2.3
Average energy per charging event (AC kWh)	3.3
Average charging energy per vehicle per month (AC kWh)	115.4
Total number of charging events	630
Total charging energy (AC kWh)	2,078