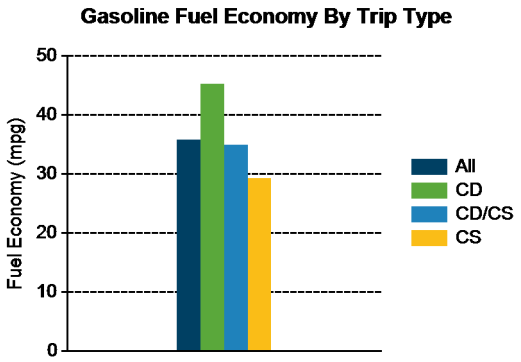
Ford Escape Advanced Research Fleet

Number of vehicles: 21
Date range of data received: 07/01/2010 to 07/31/2010
Reporting period: July 2010
Number of vehicle days driven: 294

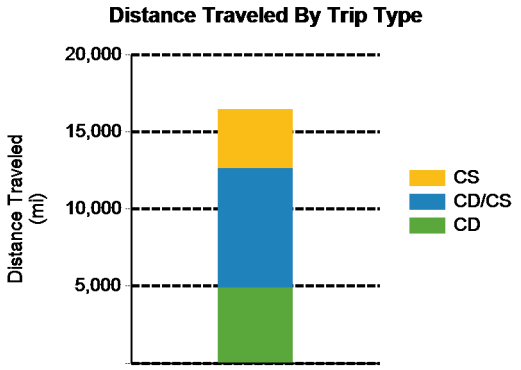
All Trips Combined

Overall gasoline fuel economy (mpg)	36
Overall AC electrical energy consumption (AC Wh/mi)[1]	98
Overall DC electrical energy consumption (DC Wh/mi)[2]	63
Total number of trips	1,388
Total distance traveled (mi)	16,479



Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)		45
DC electrical energy consumption (DC Wh/mi)[4]		146
Number of trips		895
Percent of trips city | highway	86% |	14%
Distance traveled (mi)		4,888
Percent of total distance traveled		30%



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

Gasoline fuel economy (mpg)		35
DC electrical energy consumption (DC Wh/mi)[6]		45
Number of trips		236
Percent of trips city | highway	27% |	73%
Distance traveled (mi)		7,752
Percent of total distance traveled		47%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)		29
Number of trips		257
Percent of trips city | highway	69% |	31%
Distance traveled (mi)		3,838
Percent of total distance traveled		23%

Notes: 1 - 7. Please see http://avt.inel.gov/phev/fordreportnotes 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)	40	54
DC electrical energy consumption (DC Wh/mi)	140	151
Percent of miles with internal combustion engine off	31%	7%
Average trip driving intensity (Wh/mi)	273	307
Average trip distance (mi)	3	20

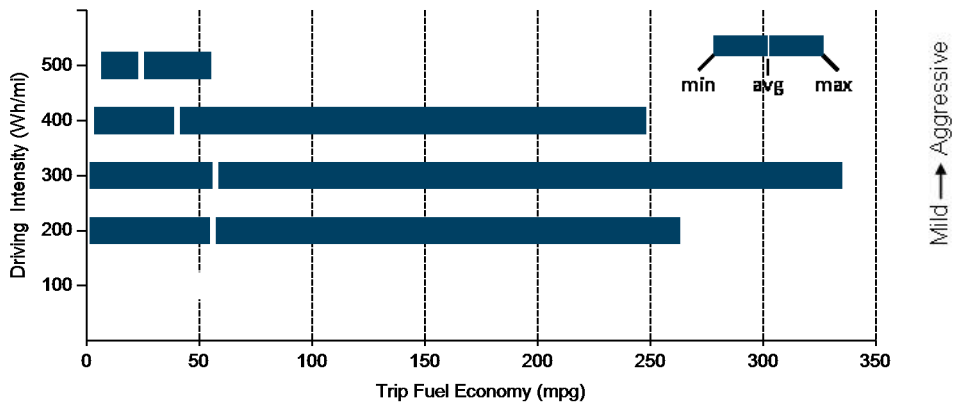
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	35	35
DC electrical energy consumption (DC Wh/mi)	59	44
Percent of miles with internal combustion engine off	22%	3%
Average trip driving intensity (Wh/mi)	287	333
Average trip distance (mi)	7	42

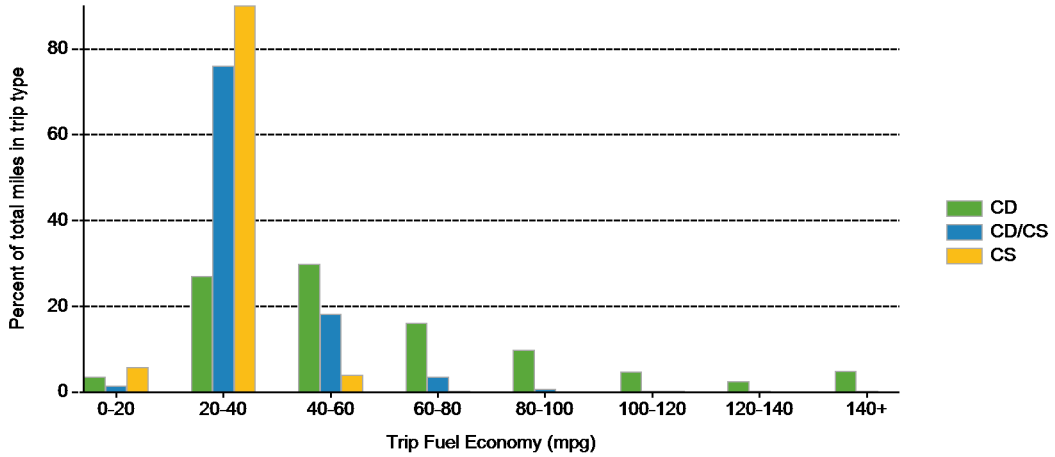
Trips in Charge Sustaining (CS) mode

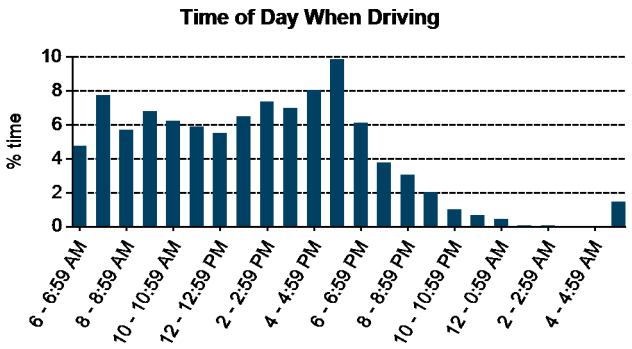
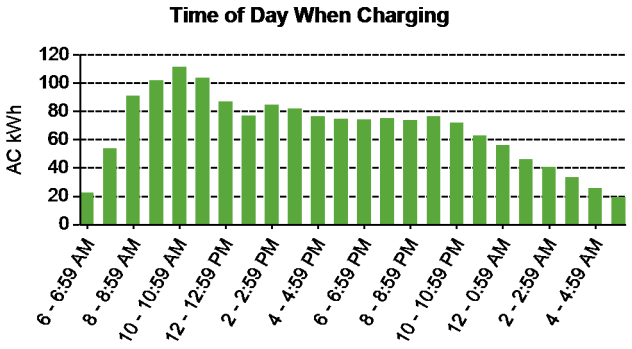
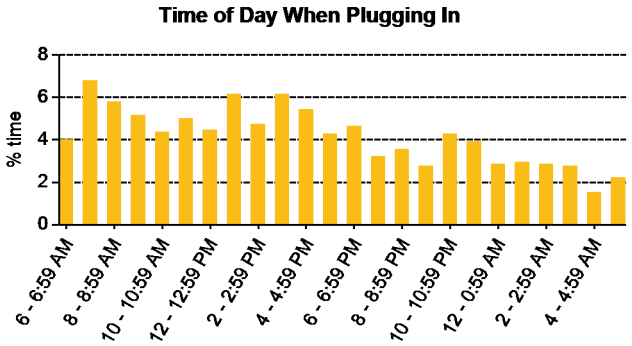
Gasoline fuel economy (mpg)	25	30
Percent of miles with internal combustion engine off	18%	1%
Average trip driving intensity (Wh/mi)	263	334
Average trip distance (mi)	3	41

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	53
Average number of charging events per vehicle per day when driven	3.8
Average distance driven between charging events (mi)	14.7
Average number of trips between charging events	1.2
Average time plugged in per charging event (hr)	5.3
Average time charging per charging event (hr)	1.0
Average energy per charging event (AC kWh)	1.4
Average charging energy per vehicle per month (AC kWh)	76.9
Total number of charging events	1,120
Total charging energy (AC kWh)	1,614