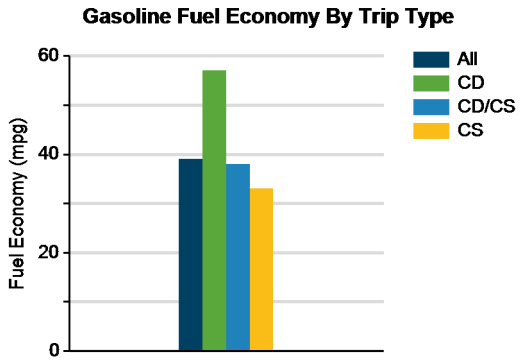
Ford Escape Advanced Research Fleet

Number of vehicles:	17	Date range of data received:	09/01/2012 to 09/30/2012
Reporting period:	Septebmer 2012	Number of vehicle days driven:	264

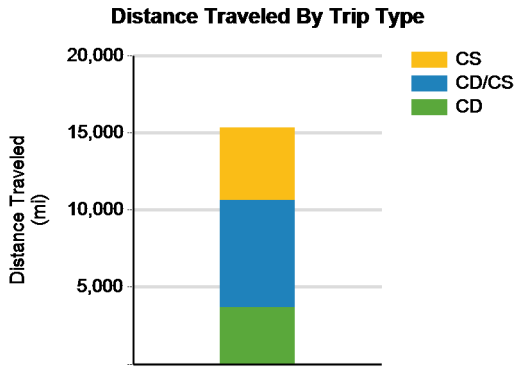
All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi)[1]	88
Overall DC electrical energy consumption (DC Wh/mi)[2]	59
Total number of trips	1,097
Total distance traveled (mi)	15,333



Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	57
DC electrical energy consumption (DC Wh/mi)[4]	161
Number of trips	592
Percent of trips city | highway	83% | 17%
Distance traveled (mi)	3,690
Percent of total distance traveled	24%



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

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi)[6]	50
Number of trips	240
Percent of trips city | highway	33% | 67%
Distance traveled (mi)	6,938
Percent of total distance traveled	45%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	33
Number of trips	265
Percent of trips city | highway	59% | 41%
Distance traveled (mi)	4,705
Percent of total distance traveled	31%

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)	52	62
DC electrical energy consumption (DC Wh/mi)	157	166
Percent of miles with internal combustion engine off	39%	11%
Average trip driving intensity (Wh/mi)	277	320
Average trip distance (mi)	4	18

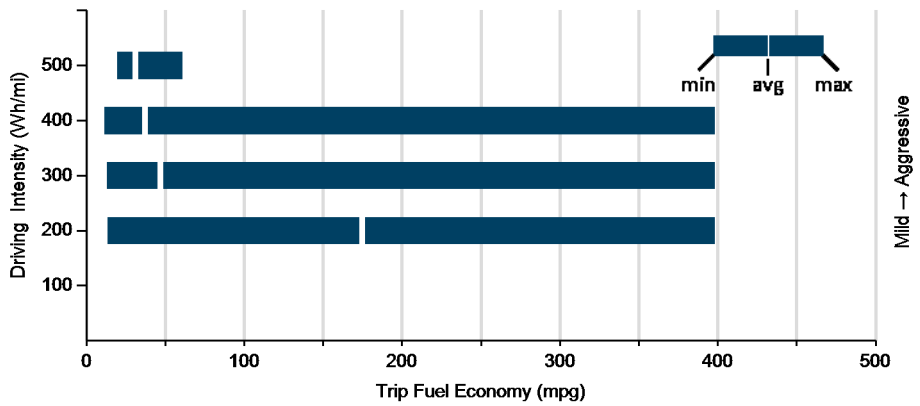
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	41	37
DC electrical energy consumption (DC Wh/mi)	61	49
Percent of miles with internal combustion engine off	26%	6%
Average trip driving intensity (Wh/mi)	289	337
Average trip distance (mi)	8	39

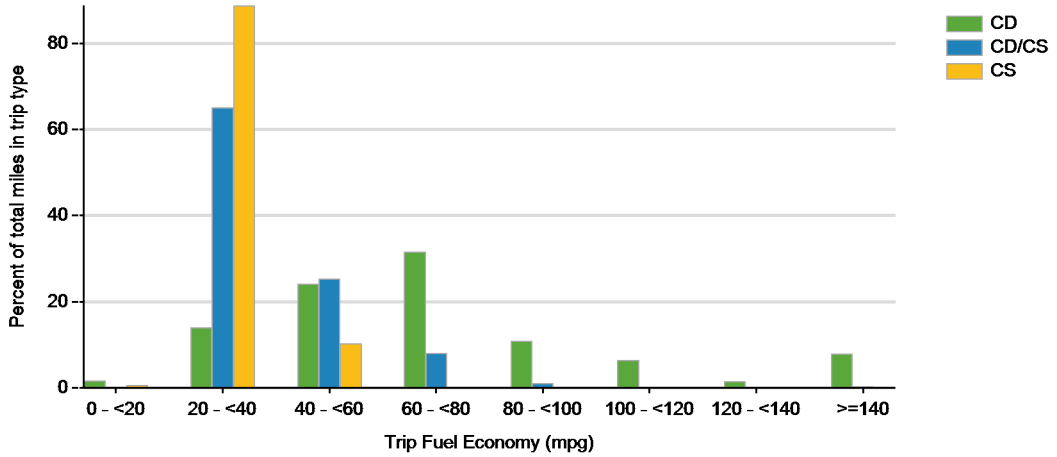
Trips in Charge Sustaining (CS) mode

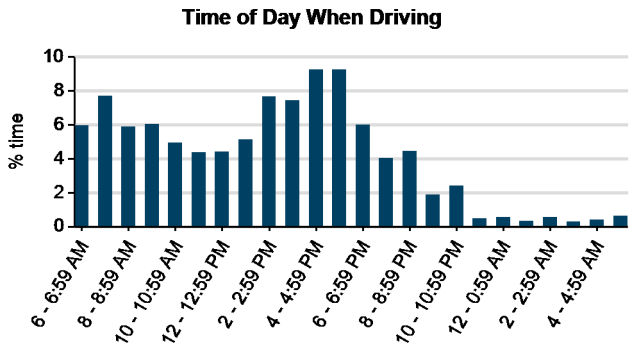
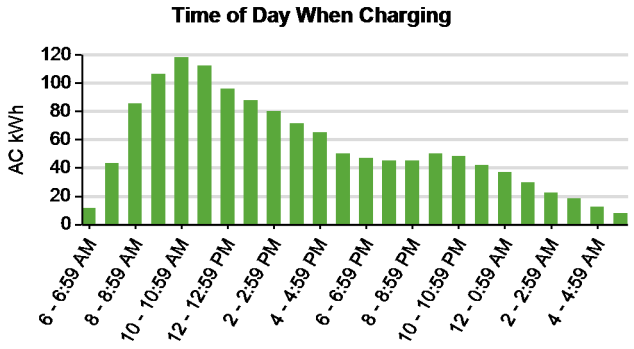
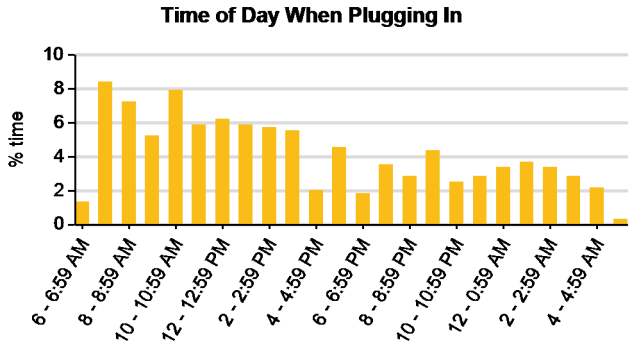
Gasoline fuel economy (mpg)	31	34
Percent of miles with internal combustion engine off	22%	4%
Average trip driving intensity (Wh/mi)	274	318
Average trip distance (mi)	3	39

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)	25.8
Average number of trips between charging events	1.8
Average time plugged in per charging event (hr)	4.9
Average time charging per charging event (hr)	1.7
Average energy per charging event (AC kWh)	2.3
Average charging energy per vehicle per month (AC kWh)	79.2
Total number of charging events	593
Total charging energy (AC kWh)	1,346