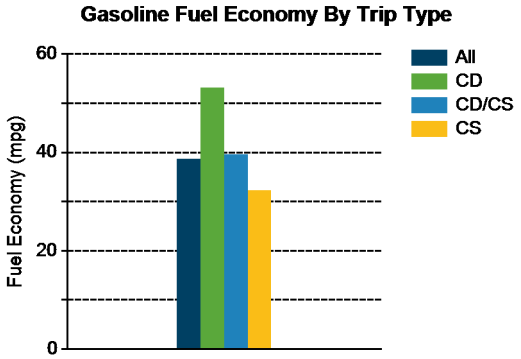
Ford Escape Advanced Research Fleet

Number of vehicles: 19
Date range of data received: 03/01/2011 to 03/31/2011
Reporting period: March 2011
Number of vehicle days driven: 306

All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi)[1]	96
Overall DC electrical energy consumption (DC Wh/mi)[2]	64
Total number of trips	1,266
Total distance traveled (mi)	16,125

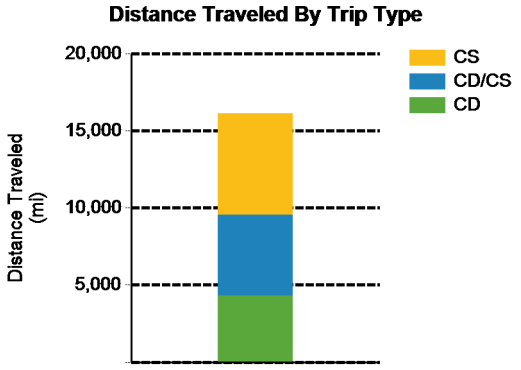


Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi)[4]	174
Number of trips	652
Percent of trips city | highway	81% | 19%
Distance traveled (mi)	4,301
Percent of total distance traveled	27%

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

Gasoline fuel economy (mpg)	40
DC electrical energy consumption (DC Wh/mi)[6]	59
Number of trips	237
Percent of trips city | highway	38% | 62%
Distance traveled (mi)	5,265
Percent of total distance traveled	33%



Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	32
Number of trips	377
Percent of trips city | highway	58% | 42%
Distance traveled (mi)	6,558
Percent of total distance traveled	41%

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)	48	59
DC electrical energy consumption (DC Wh/mi)	167	181
Percent of miles with internal combustion engine off	36%	10%
Average trip driving intensity (Wh/mi)	265	307
Average trip distance (mi)	4	18

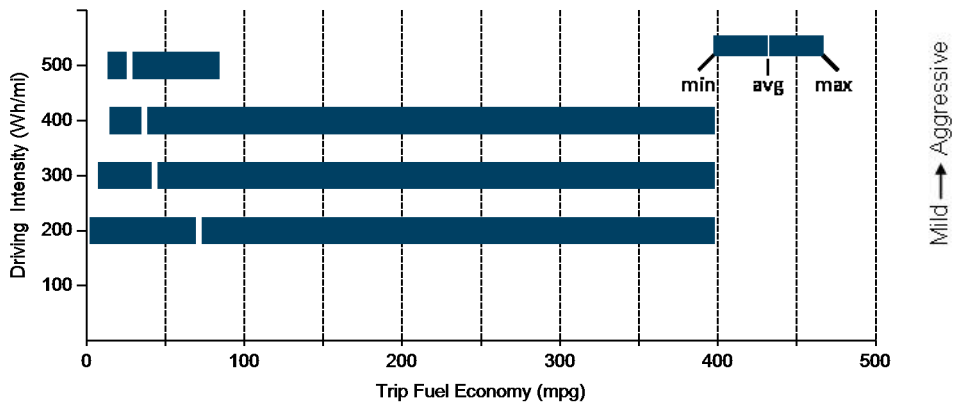
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	44	39
DC electrical energy consumption (DC Wh/mi)	65	58
Percent of miles with internal combustion engine off	25%	6%
Average trip driving intensity (Wh/mi)	275	318
Average trip distance (mi)	9	30

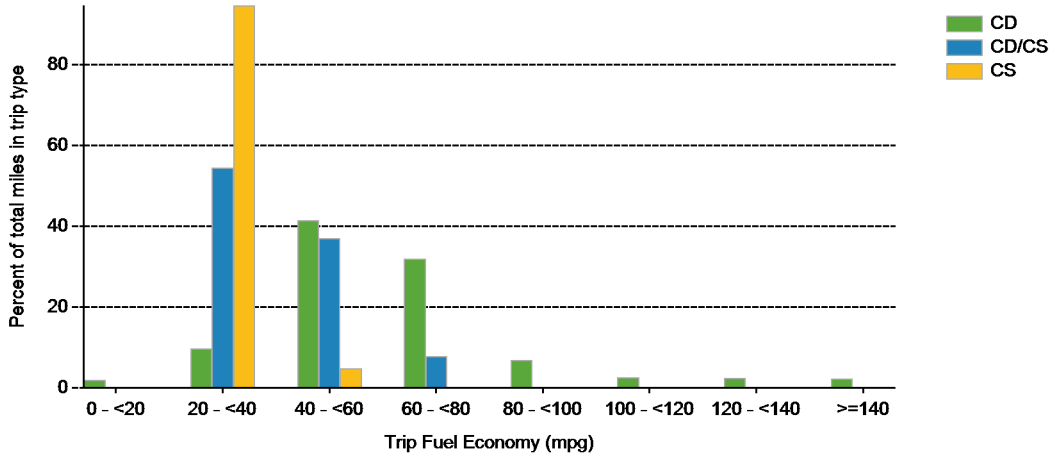
Trips in Charge Sustaining (CS) mode

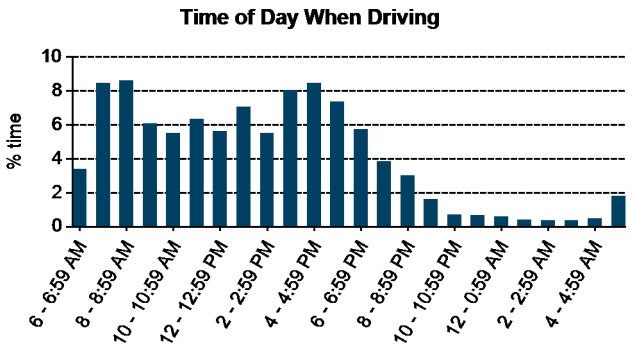
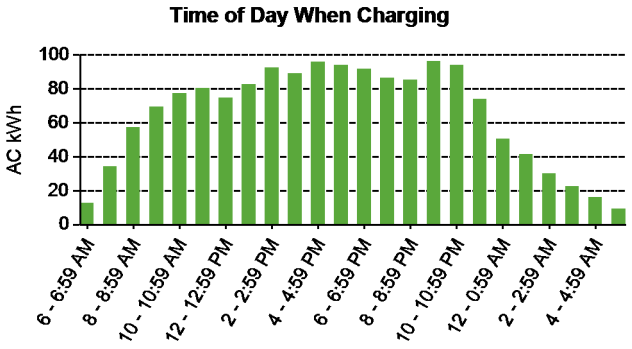
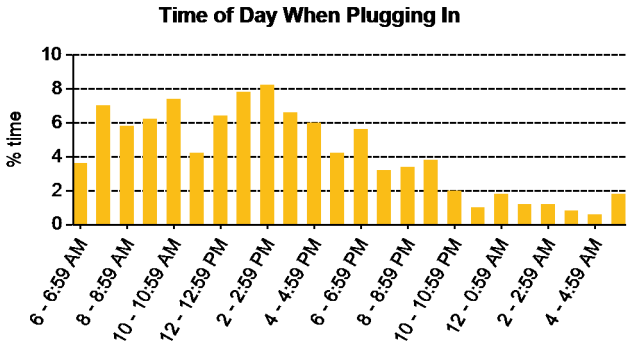
Gasoline fuel economy (mpg)	32	33
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	277	323
Average trip distance (mi)	5	34

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	26
Average number of charging events per vehicle per day when driven	1.6
Average distance driven between charging events (mi)	32.3
Average number of trips between charging events	2.5
Average time plugged in per charging event (hr)	10.7
Average time charging per charging event (hr)	2.6
Average energy per charging event (AC kWh)	3.1
Average charging energy per vehicle per month (AC kWh)	81.8
Total number of charging events	499
Total charging energy (AC kWh)	1,554