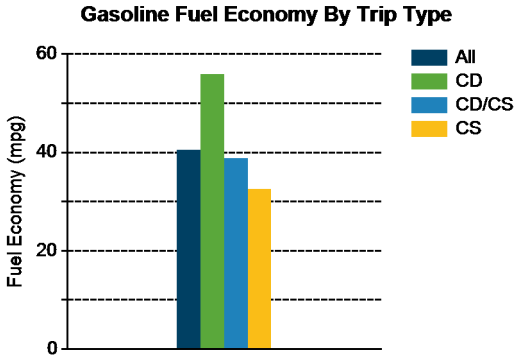
Ford Escape Advanced Research Fleet

Number of vehicles: 21
Reporting period: March 2010
Date range of data received: 03/01/2010 to 03/31/2010
Number of vehicle days driven: 336

All Trips Combined

Overall gasoline fuel economy (mpg)	40
Overall AC electrical energy consumption (AC Wh/mi)[1]	136
Overall DC electrical energy consumption (DC Wh/mi)[2]	93
Total number of trips	1,476
Total distance traveled (mi)	16,266

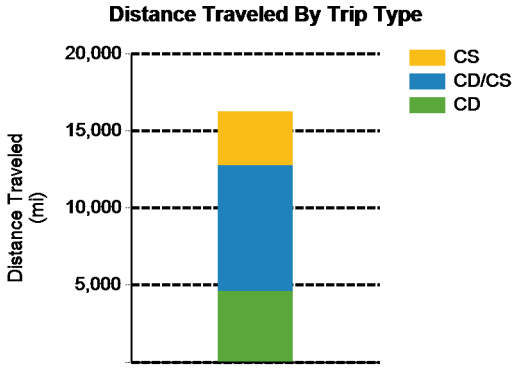


Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	56
DC electrical energy consumption (DC Wh/mi)[4]	191
Number of trips	867
Percent of trips city | highway	84% | 16%
Distance traveled (mi)	4,583
Percent of total distance traveled	28%

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

Gasoline fuel economy (mpg)	39
DC electrical energy consumption (DC Wh/mi)[6]	75
Number of trips	288
Percent of trips city | highway	39% | 62%
Distance traveled (mi)	8,176
Percent of total distance traveled	50%



Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	32
Number of trips	321
Percent of trips city | highway	76% | 24%
Distance traveled (mi)	3,506
Percent of total distance traveled	22%

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	61
DC electrical energy consumption (DC Wh/mi)	195	188
Percent of miles with internal combustion engine off	38%	15%
Average trip driving intensity (Wh/mi)	273	311
Average trip distance (mi)	3	18

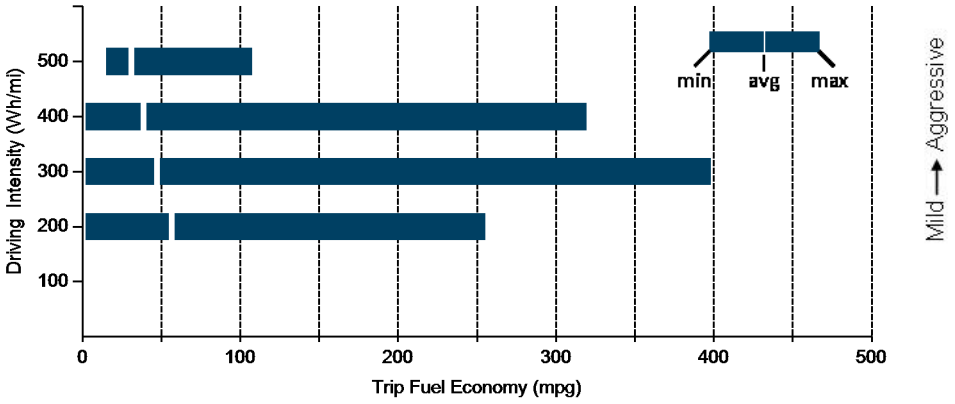
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	50	38
DC electrical energy consumption (DC Wh/mi)	107	71
Percent of miles with internal combustion engine off	33%	6%
Average trip driving intensity (Wh/mi)	275	332
Average trip distance (mi)	9	40

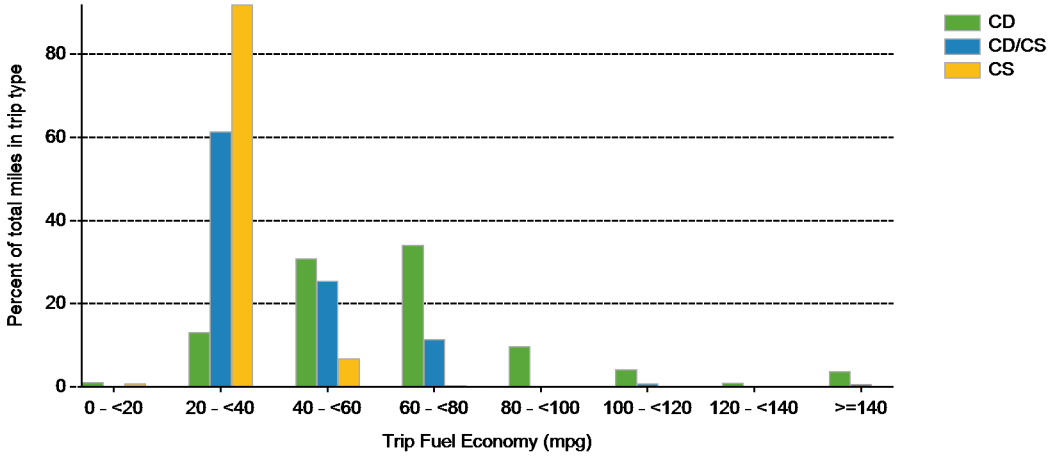
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	32	33
Percent of miles with internal combustion engine off	28%	5%
Average trip driving intensity (Wh/mi)	259	314
Average trip distance (mi)	3	37

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	67
Average number of charging events per vehicle per day when driven	4.2
Average distance driven between charging events (mi)	11.5
Average number of trips between charging events	1.0
Average time plugged in per charging event (hr)	5.1
Average time charging per charging event (hr)	1.1
Average energy per charging event (AC kWh)	1.6
Average charging energy per vehicle per month (AC kWh)	105.3
Total number of charging events	1,411
Total charging energy (AC kWh)	2,210