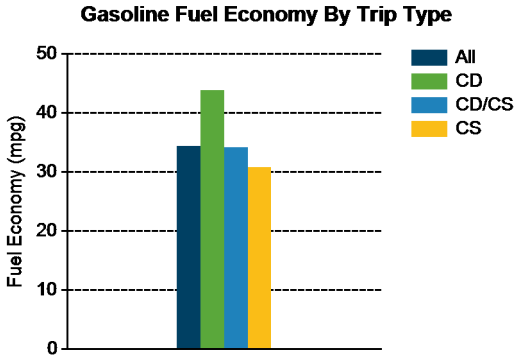
Ford Escape Advanced Research Fleet

Number of vehicles: 19
Reporting period: December 2010
Date range of data received: 12/01/2010 to 12/31/2010
Number of vehicle days driven: 243

All Trips Combined

Overall gasoline fuel economy (mpg)	34
Overall AC electrical energy consumption (AC Wh/mi)[1]	94
Overall DC electrical energy consumption (DC Wh/mi)[2]	60
Total number of trips	1,077
Total distance traveled (mi)	15,138

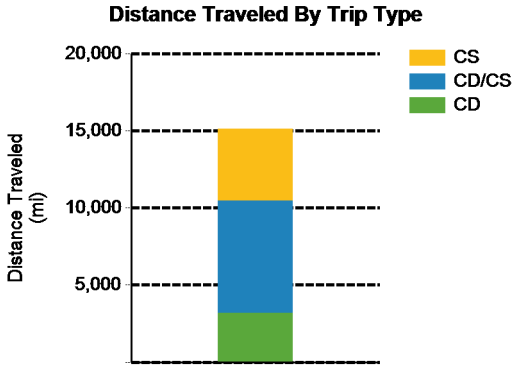


Trips in Charge Depleting (CD) mode[3]

Gasoline fuel economy (mpg)	44
DC electrical energy consumption (DC Wh/mi)[4]	168
Number of trips	513
Percent of trips city | highway	86% | 14%
Distance traveled (mi)	3,197
Percent of total distance traveled	21%

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

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi)[6]	54
Number of trips	240
Percent of trips city | highway	35% | 65%
Distance traveled (mi)	7,267
Percent of total distance traveled	48%



Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	31
Number of trips	324
Percent of trips city | highway	69% | 31%
Distance traveled (mi)	4,672
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)	35	62
DC electrical energy consumption (DC Wh/mi)	164	172
Percent of miles with internal combustion engine off	23%	14%
Average trip driving intensity (Wh/mi)	268	302
Average trip distance (mi)	4	20

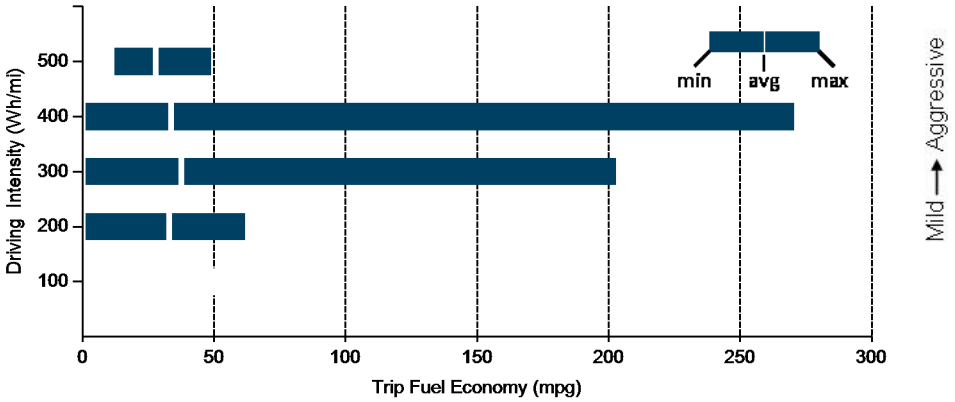
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	35	34
DC electrical energy consumption (DC Wh/mi)	52	55
Percent of miles with internal combustion engine off	24%	5%
Average trip driving intensity (Wh/mi)	273	325
Average trip distance (mi)	10	41

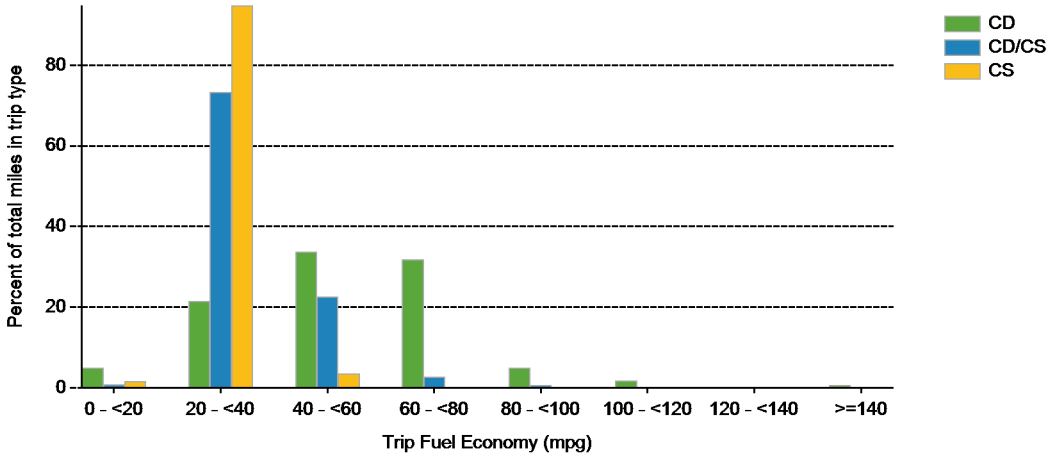
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	29	31
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	267	317
Average trip distance (mi)	4	38

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	36
Average number of charging events per vehicle per day when driven	2.8
Average distance driven between charging events (mi)	22.3
Average number of trips between charging events	1.6
Average time plugged in per charging event (hr)	8.2
Average time charging per charging event (hr)	1.5
Average energy per charging event (AC kWh)	2.1
Average charging energy per vehicle per month (AC kWh)	75.2
Total number of charging events	680
Total charging energy (AC kWh)	1,429