

Ford Escape Advanced Research Fleet

Number of vehicles: 19

Date range of data received: 11/01/2010 to 11/30/2010

Reporting period: November 2010

Number of vehicle days driven: 304

All Trips Combined

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	95
Overall DC electrical energy consumption (DC Wh/mi) ²	63
Total number of trips	1,314
Total distance traveled (mi)	19,332

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	52
DC electrical energy consumption (DC Wh/mi) ⁴	177
Number of trips	715
Percent of trips city highway	81% 19%
Distance traveled (mi)	4,191
Percent of total distance traveled	22%

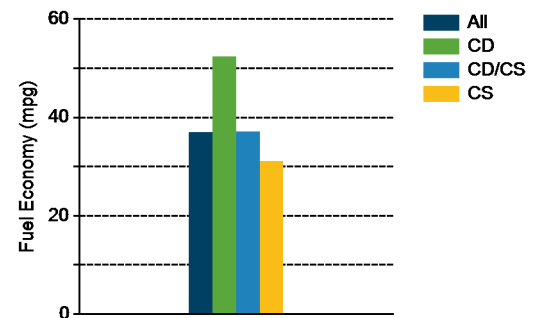
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	59
Number of trips	290
Percent of trips city highway	40% 60%
Distance traveled (mi)	8,488
Percent of total distance traveled	44%

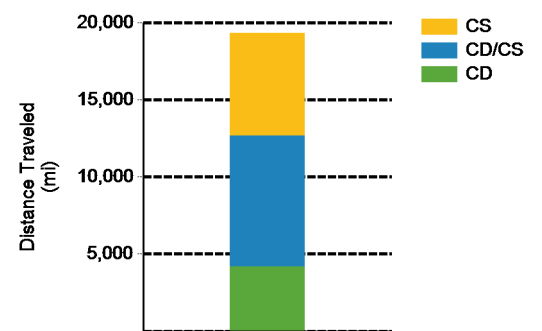
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	31
Number of trips	309
Percent of trips city highway	57% 43%
Distance traveled (mi)	6,652
Percent of total distance traveled	34%

Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



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)	47	59
DC electrical energy consumption (DC Wh/mi)	171	183
Percent of miles with internal combustion engine off	33%	13%
Average trip driving intensity (Wh/mi)	268	302
Average trip distance (mi)	4	15

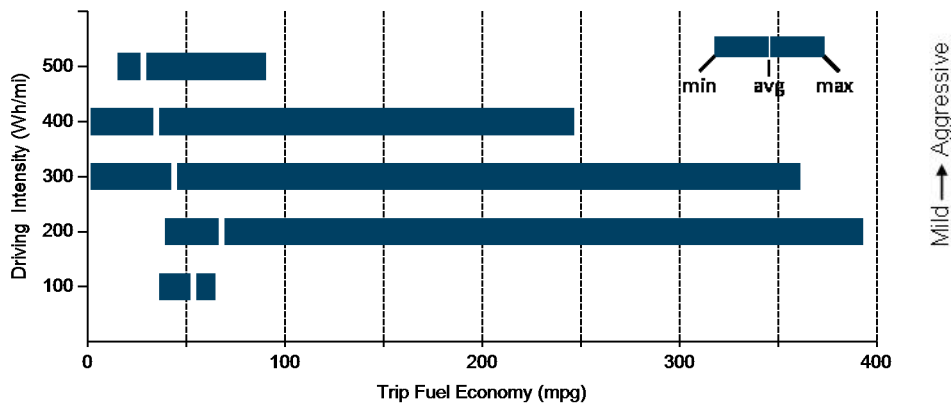
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	45	36
DC electrical energy consumption (DC Wh/mi)	77	57
Percent of miles with internal combustion engine off	28%	6%
Average trip driving intensity (Wh/mi)	282	322
Average trip distance (mi)	8	43

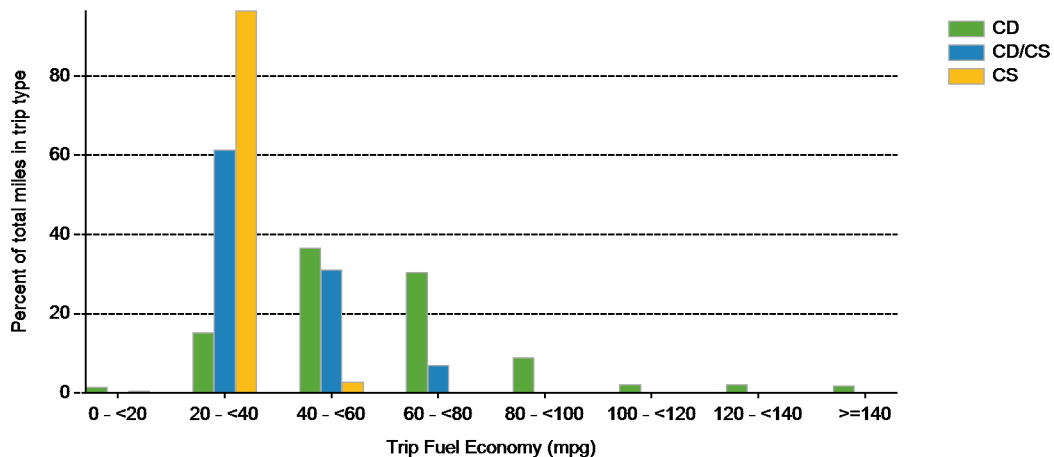
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	31	31
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	271	330
Average trip distance (mi)	4	45

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



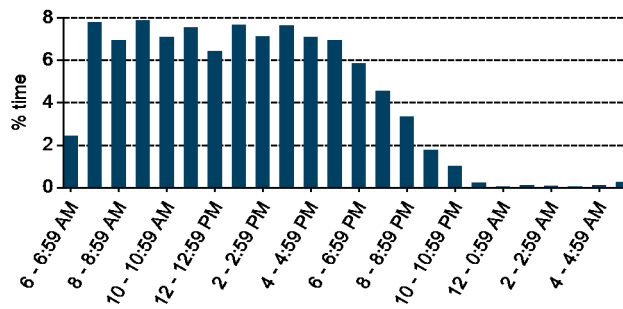
Trip Fuel Economy Distribution By Trip Type



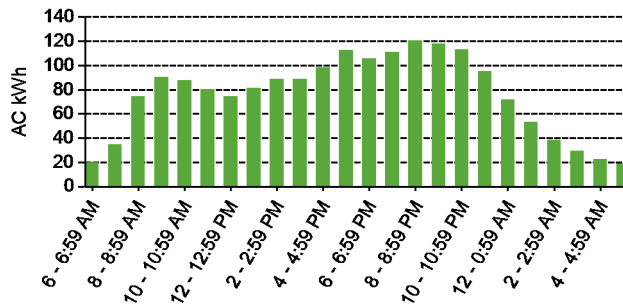
Plug-in charging

Average number of charging events per vehicle per month when driven	37
Average number of charging events per vehicle per day when driven	2.3
Average distance driven between charging events (mi)	27.3
Average number of trips between charging events	1.9
Average time plugged in per charging event (hr)	9.4
Average time charging per charging event (hr)	1.8
Average energy per charging event (AC kWh)	2.6
Average charging energy per vehicle per month (AC kWh)	96.4
Total number of charging events	708
Total charging energy (AC kWh)	1,832

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

