

Ford Escape Advanced Research Fleet

Number of vehicles: 19

Date range of data received: 01/01/2011 to 01/31/2011

Reporting period: January 2011

Number of vehicle days driven: 274

All Trips Combined

Overall gasoline fuel economy (mpg)	35
Overall AC electrical energy consumption (AC Wh/mi) ¹	111
Overall DC electrical energy consumption (DC Wh/mi) ²	70
Total number of trips	1,023
Total distance traveled (mi)	14,654

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	47
DC electrical energy consumption (DC Wh/mi) ⁴	172
Number of trips	547
Percent of trips city highway	81% 19%
Distance traveled (mi)	3,917
Percent of total distance traveled	27%

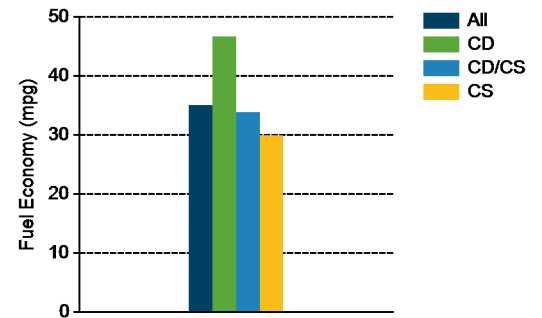
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	34
DC electrical energy consumption (DC Wh/mi) ⁶	56
Number of trips	259
Percent of trips city highway	43% 58%
Distance traveled (mi)	6,662
Percent of total distance traveled	45%

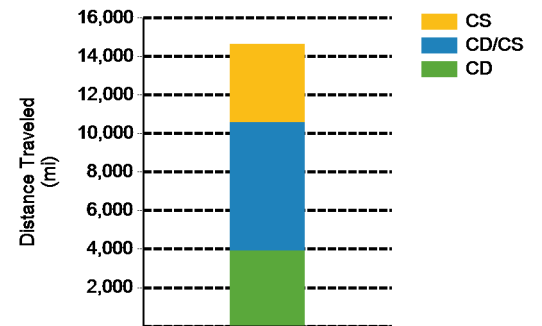
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	30
Number of trips	217
Percent of trips city highway	62% 38%
Distance traveled (mi)	4,075
Percent of total distance traveled	28%

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)	37	60
DC electrical energy consumption (DC Wh/mi)	160	181
Percent of miles with internal combustion engine off	26%	11%
Average trip driving intensity (Wh/mi)	266	313
Average trip distance (mi)	4	22

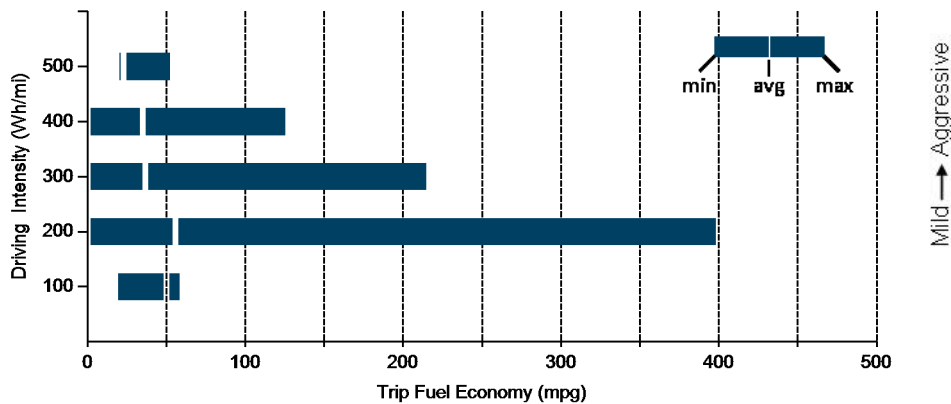
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	38	33
DC electrical energy consumption (DC Wh/mi)	72	53
Percent of miles with internal combustion engine off	31%	5%
Average trip driving intensity (Wh/mi)	270	326
Average trip distance (mi)	10	38

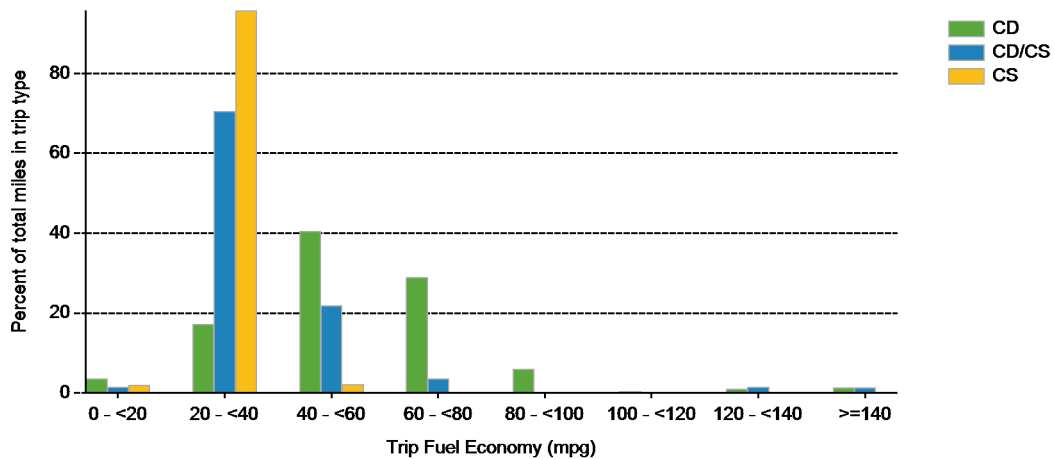
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	27	31
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	252	326
Average trip distance (mi)	4	43

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



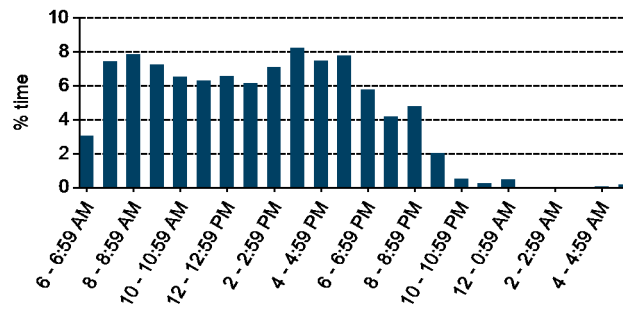
Trip Fuel Economy Distribution By Trip Type



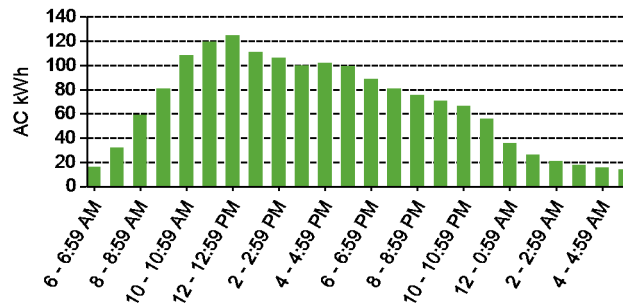
Plug-in charging

Average number of charging events per vehicle per month when driven	38
Average number of charging events per vehicle per day when driven	2.6
Average distance driven between charging events (mi)	20.4
Average number of trips between charging events	1.4
Average time plugged in per charging event (hr)	8.7
Average time charging per charging event (hr)	1.5
Average energy per charging event (AC kWh)	2.3
Average charging energy per vehicle per month (AC kWh)	85.7
Total number of charging events	719
Total charging energy (AC kWh)	1,629

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

