

Ford Escape Advanced Research Fleet

Number of vehicles: 20

Date range of data received: 08/01/2011 to 08/31/2011

Reporting period: August 2011

Number of vehicle days driven: 287

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	89
Overall DC electrical energy consumption (DC Wh/mi) ²	61
Total number of trips	1,509
Total distance traveled (mi)	19,521

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi) ⁴	143
Number of trips	971
Percent of trips city highway	82% 18%
Distance traveled (mi)	6,119
Percent of total distance traveled	31%

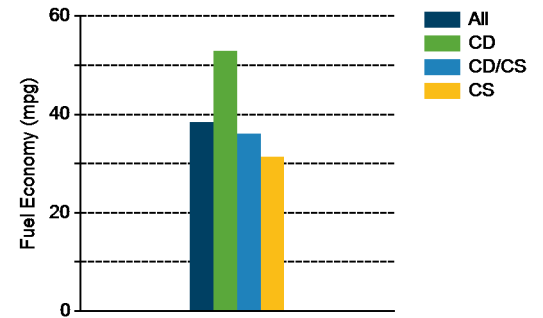
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	36
DC electrical energy consumption (DC Wh/mi) ⁶	43
Number of trips	282
Percent of trips city highway	29% 71%
Distance traveled (mi)	8,380
Percent of total distance traveled	43%

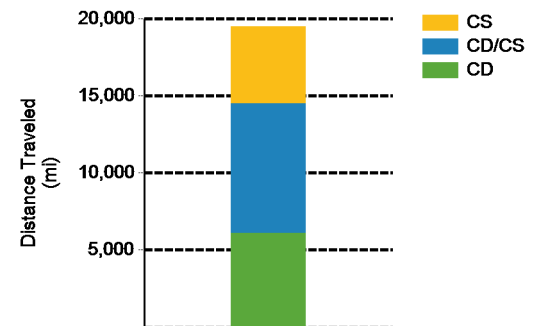
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	31
Number of trips	255
Percent of trips city highway	61% 39%
Distance traveled (mi)	5,023
Percent of total distance traveled	26%

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)	48	57
DC electrical energy consumption (DC Wh/mi)	141	145
Percent of miles with internal combustion engine off	35%	8%
Average trip driving intensity (Wh/mi)	272	309
Average trip distance (mi)	3	19

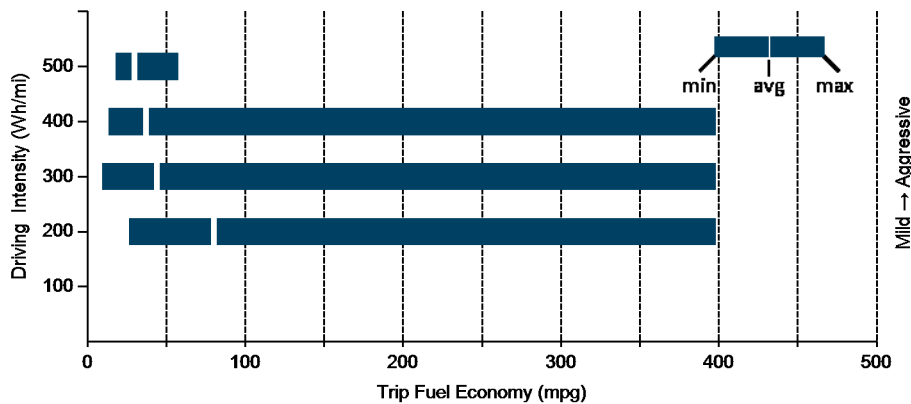
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	38	36
DC electrical energy consumption (DC Wh/mi)	49	43
Percent of miles with internal combustion engine off	24%	4%
Average trip driving intensity (Wh/mi)	274	332
Average trip distance (mi)	9	39

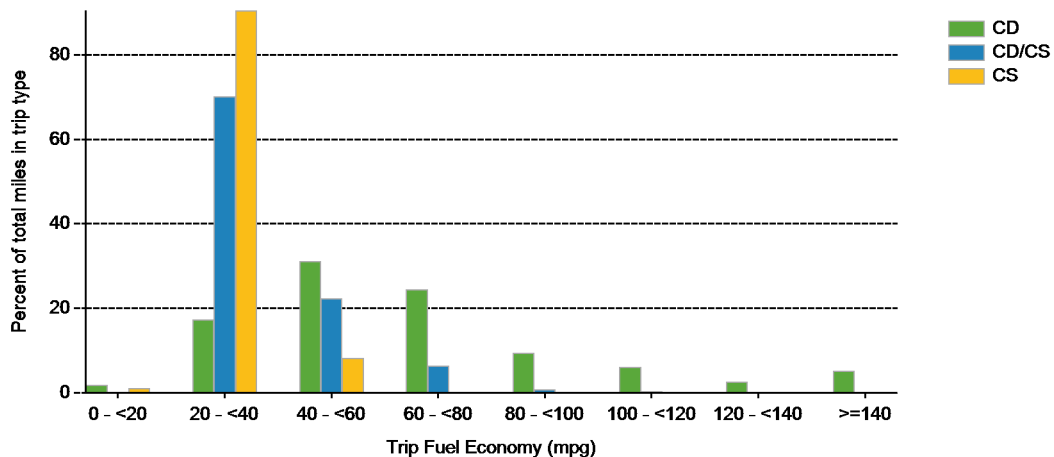
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	29	32
Percent of miles with internal combustion engine off	20%	6%
Average trip driving intensity (Wh/mi)	252	319
Average trip distance (mi)	5	43

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



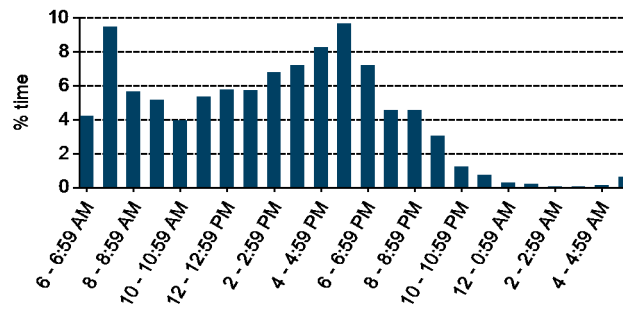
Trip Fuel Economy Distribution By Trip Type



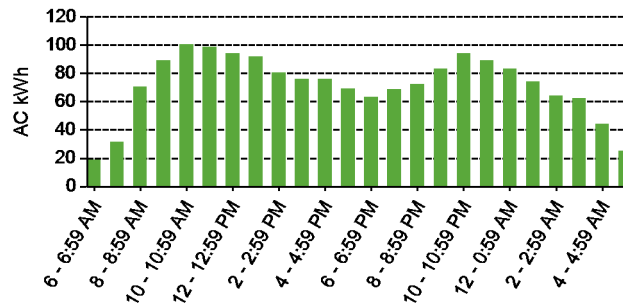
Plug-in charging

Average number of charging events per vehicle per month when driven	38
Average number of charging events per vehicle per day when driven	2.5
Average distance driven between charging events (mi)	26.9
Average number of trips between charging events	2.1
Average time plugged in per charging event (hr)	5.5
Average time charging per charging event (hr)	1.7
Average energy per charging event (AC kWh)	2.4
Average charging energy per vehicle per month (AC kWh)	91.2
Total number of charging events	727
Total charging energy (AC kWh)	1,733

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

