

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 09/01/2010 to 09/30/2010

Reporting period: September 2010

Number of vehicle days driven: 324

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	88
Overall DC electrical energy consumption (DC Wh/mi) ²	54
Total number of trips	1,421
Total distance traveled (mi)	21,757

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	59
DC electrical energy consumption (DC Wh/mi) ⁴	162
Number of trips	694
Percent of trips city highway	83% 17%
Distance traveled (mi)	4,237
Percent of total distance traveled	19%

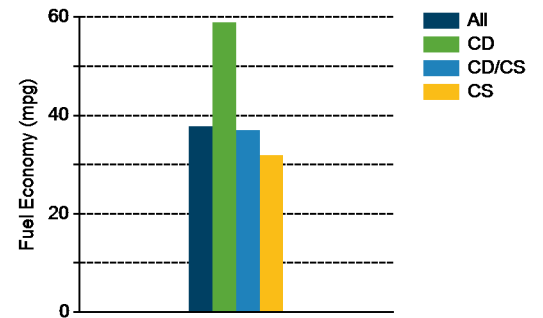
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	48
Number of trips	310
Percent of trips city highway	35% 66%
Distance traveled (mi)	10,790
Percent of total distance traveled	50%

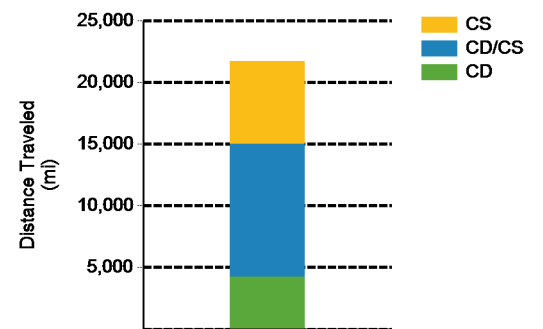
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	416
Percent of trips city highway	58% 42%
Distance traveled (mi)	6,730
Percent of total distance traveled	31%

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)	56	64
DC electrical energy consumption (DC Wh/mi)	161	163
Percent of miles with internal combustion engine off	41%	18%
Average trip driving intensity (Wh/mi)	260	293
Average trip distance (mi)	4	17

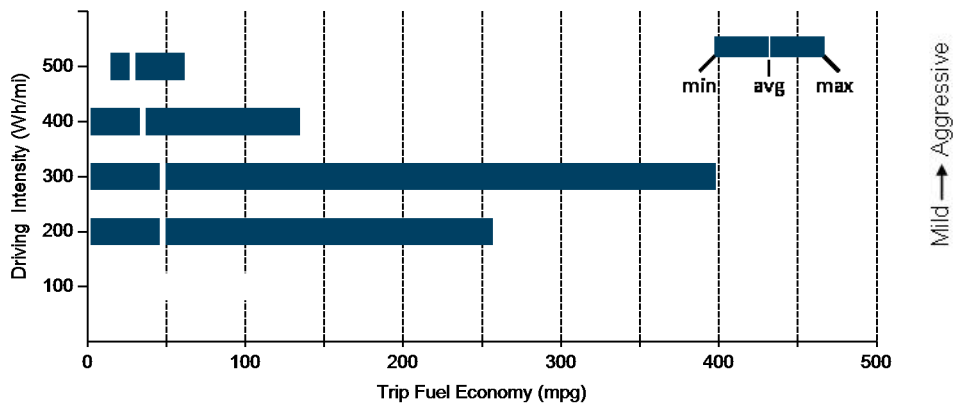
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	47	36
DC electrical energy consumption (DC Wh/mi)	76	44
Percent of miles with internal combustion engine off	31%	5%
Average trip driving intensity (Wh/mi)	270	320
Average trip distance (mi)	13	46

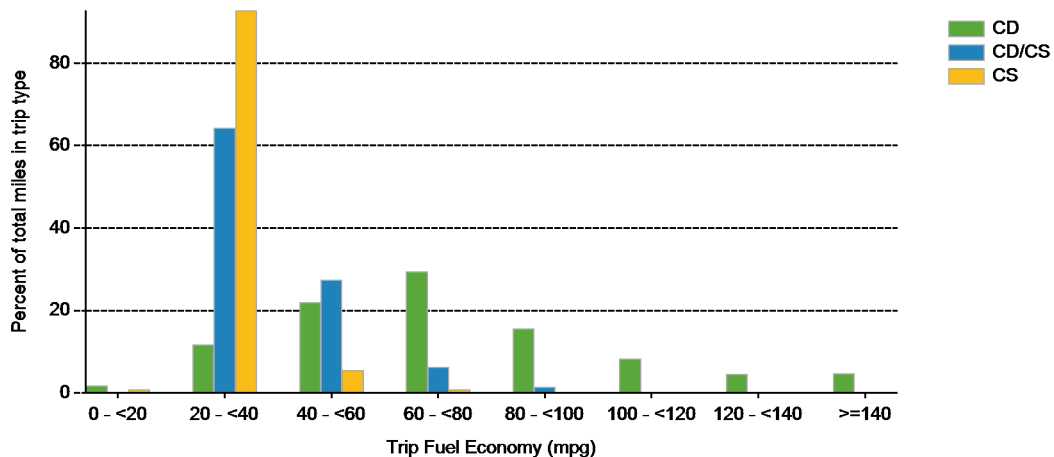
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	32	32
Percent of miles with internal combustion engine off	22%	4%
Average trip driving intensity (Wh/mi)	261	335
Average trip distance (mi)	5	32

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



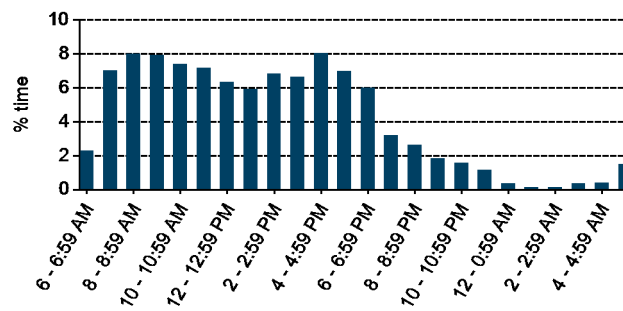
Trip Fuel Economy Distribution By Trip Type



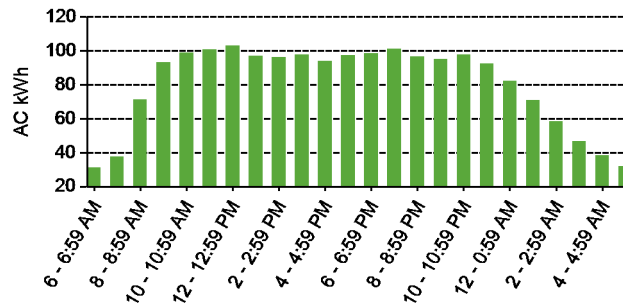
Plug-in charging

Average number of charging events per vehicle per month when driven	73
Average number of charging events per vehicle per day when driven	4.8
Average distance driven between charging events (mi)	14.1
Average number of trips between charging events	0.9
Average time plugged in per charging event (hr)	5.1
Average time charging per charging event (hr)	0.9
Average energy per charging event (AC kWh)	1.2
Average charging energy per vehicle per month (AC kWh)	91.3
Total number of charging events	1,543
Total charging energy (AC kWh)	1,918

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

