

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 11/01/2009 to 10/31/2011

Reporting period: Nov 09 - Oct 11

Number of vehicle days driven: 6,973

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	101
Overall DC electrical energy consumption (DC Wh/mi) ²	66
Total number of trips	31,451
Total distance traveled (mi)	394,564

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi) ⁴	165
Number of trips	18,056
Percent of trips city highway	100% 0%
Distance traveled (mi)	106,042
Percent of total distance traveled	27%

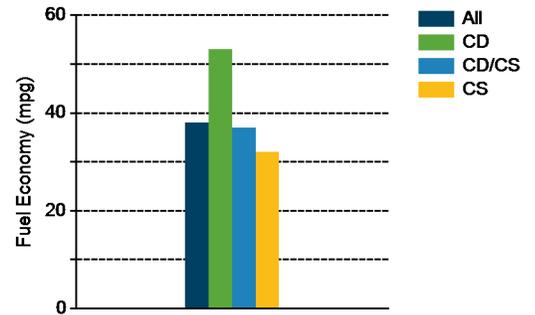
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	54
Number of trips	6,015
Percent of trips city highway	0% 100%
Distance traveled (mi)	172,376
Percent of total distance traveled	44%

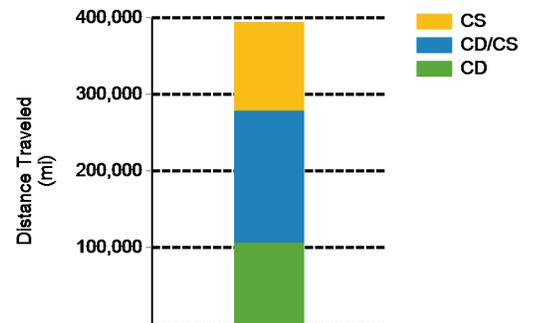
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	7,371
Percent of trips city highway	100% 0%
Distance traveled (mi)	116,146
Percent of total distance traveled	29%

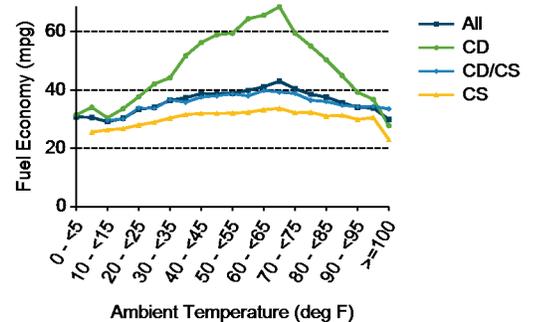
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Fuel Economy By Ambient Temperature



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)	49	58
DC electrical energy consumption (DC Wh/mi)	166	164
Percent of miles with internal combustion engine off	38%	12%
Average trip driving intensity (Wh/mi)	269	306
Average trip distance (mi)	4	18

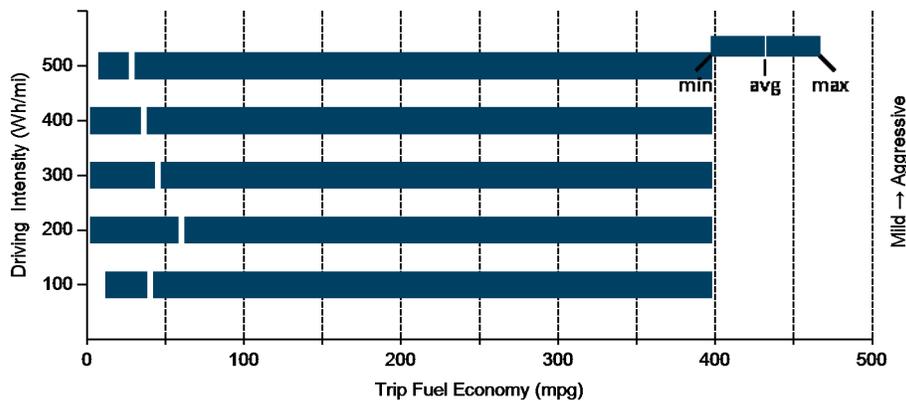
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	43	36
DC electrical energy consumption (DC Wh/mi)	75	51
Percent of miles with internal combustion engine off	30%	5%
Average trip driving intensity (Wh/mi)	279	326
Average trip distance (mi)	9	40

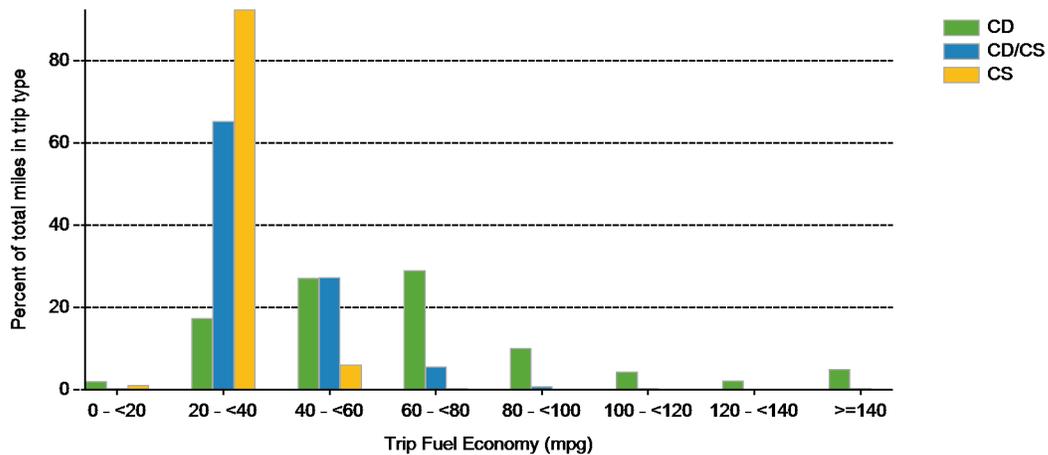
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	30	32
Percent of miles with internal combustion engine off	23%	4%
Average trip driving intensity (Wh/mi)	266	321
Average trip distance (mi)	4	38

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



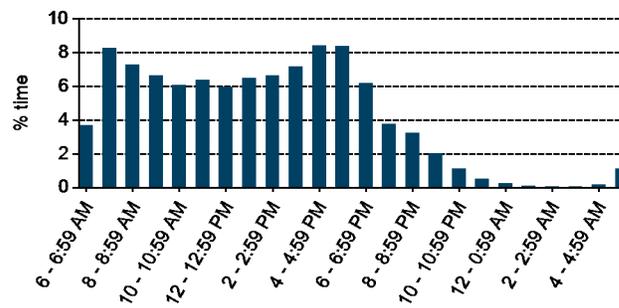
Trip Fuel Economy Distribution By Trip Type



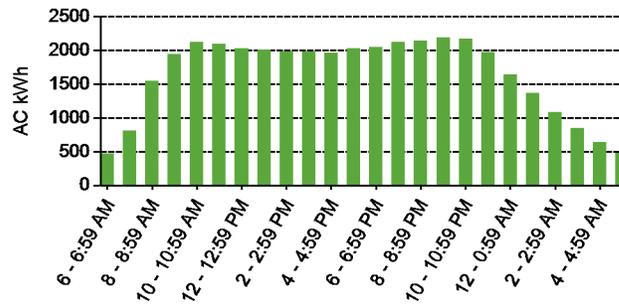
Plug-in charging

Average number of charging events per vehicle per month when driven	44
Average number of charging events per vehicle per day when driven	3.0
Average distance driven between charging events (mi)	18.9
Average number of trips between charging events	1.5
Average time plugged in per charging event (hr)	6.1
Average time charging per charging event (hr)	1.4
Average energy per charging event (AC kWh)	1.9
Average charging energy per vehicle per month (AC kWh)	83.7
Total number of charging events	20,891
Total charging energy (AC kWh)	39,660

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

