

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 12/01/2009 to 12/31/2009

Reporting period: December 2009

Number of vehicle days driven: 291

All Trips Combined

Overall gasoline fuel economy (mpg)	37
Overall AC electrical energy consumption (AC Wh/mi) ¹	103
Overall DC electrical energy consumption (DC Wh/mi) ²	68
Total number of trips	1,269
Total distance traveled (mi)	13,444

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	43
DC electrical energy consumption (DC Wh/mi) ⁴	140
Number of trips	743
Percent of trips city highway	81% 19%
Distance traveled (mi)	4,300
Percent of total distance traveled	32%

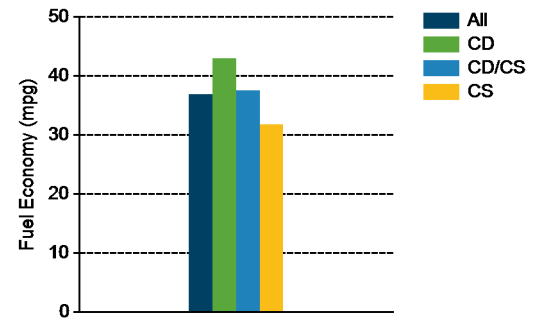
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	38
DC electrical energy consumption (DC Wh/mi) ⁶	67
Number of trips	180
Percent of trips city highway	37% 63%
Distance traveled (mi)	4,881
Percent of total distance traveled	36%

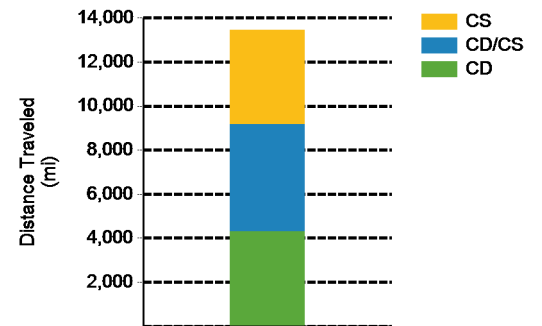
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	346
Percent of trips city highway	69% 31%
Distance traveled (mi)	4,261
Percent of total distance traveled	32%

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)	46	42
DC electrical energy consumption (DC Wh/mi)	180	111
Percent of miles with internal combustion engine off	41%	10%
Average trip driving intensity (Wh/mi)	260	302
Average trip distance (mi)	3	17

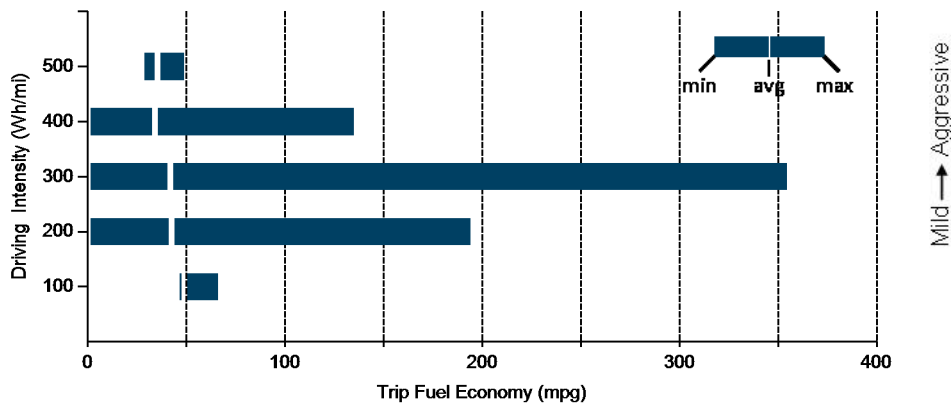
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	44	37
DC electrical energy consumption (DC Wh/mi)	82	65
Percent of miles with internal combustion engine off	32%	6%
Average trip driving intensity (Wh/mi)	278	320
Average trip distance (mi)	7	39

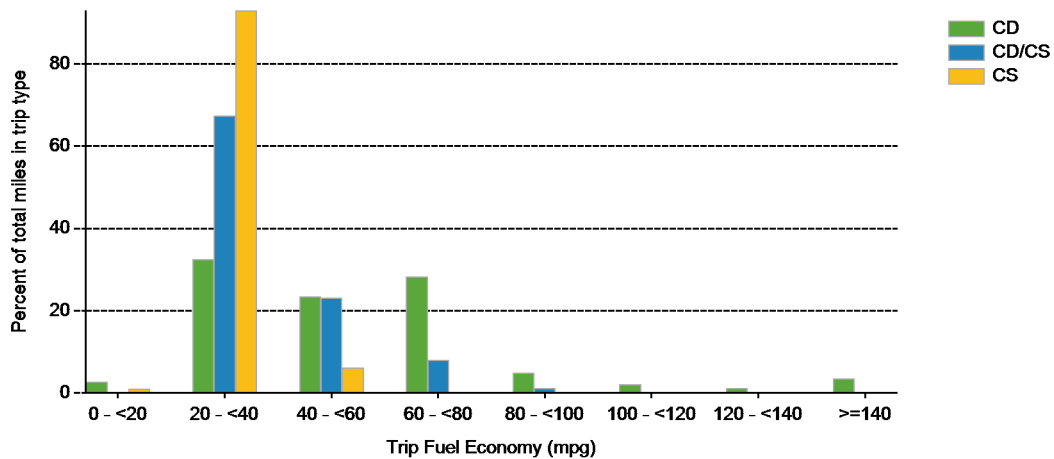
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	31	32
Percent of miles with internal combustion engine off	22%	5%
Average trip driving intensity (Wh/mi)	273	300
Average trip distance (mi)	4	30

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



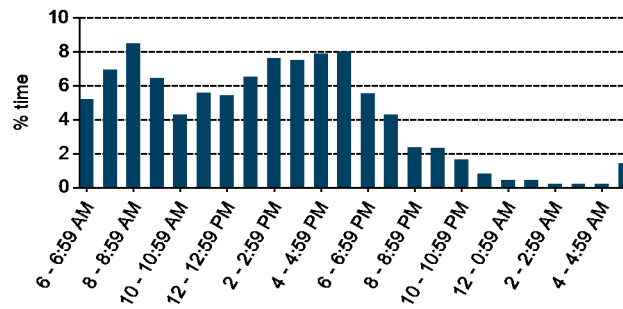
Trip Fuel Economy Distribution By Trip Type



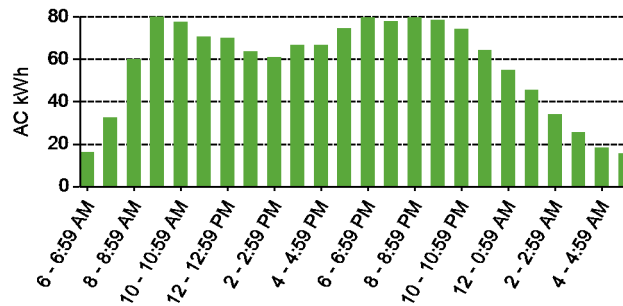
Plug-in charging

Average number of charging events per vehicle per month when driven	33
Average number of charging events per vehicle per day when driven	2.4
Average distance driven between charging events (mi)	19.6
Average number of trips between charging events	1.8
Average time plugged in per charging event (hr)	6.7
Average time charging per charging event (hr)	1.5
Average energy per charging event (AC kWh)	2.0
Average charging energy per vehicle per month (AC kWh)	66.2
Total number of charging events	686
Total charging energy (AC kWh)	1,390

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

