

## Ford Escape Advanced Research Fleet

Number of vehicles: 20

Date range of data received: 04/01/2011 to 04/30/2011

Reporting period: April 2011

Number of vehicle days driven: 336

### All Trips Combined

Overall gasoline fuel economy (mpg)	40
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	65
Total distance traveled (mi)	17,617

### Trips in Charge Depleting (CD) mode<sup>3</sup>

Gasoline fuel economy (mpg)	64
Number of trips	741
Distance traveled (mi)	4,367

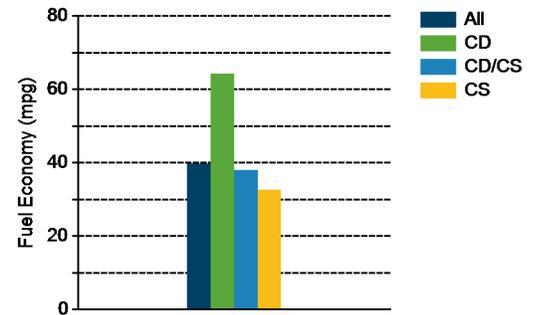
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

Gasoline fuel economy (mpg)	38
Number of trips	314
Distance traveled (mi)	7,550

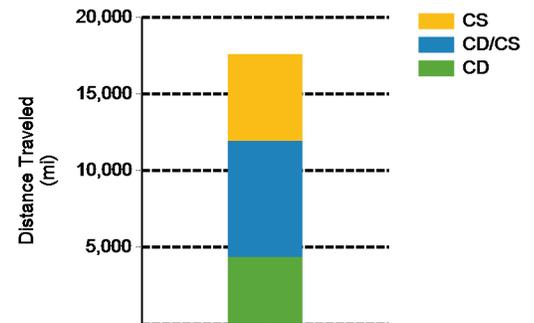
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

Number of trips	385
Distance traveled (mi)	5,698

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)	64	65
DC electrical energy consumption (DC Wh/mi)	180	184
Percent of miles with internal combustion engine off	45%	15%
Average trip driving intensity (Wh/mi)	264	301
Average trip distance (mi)	4	16

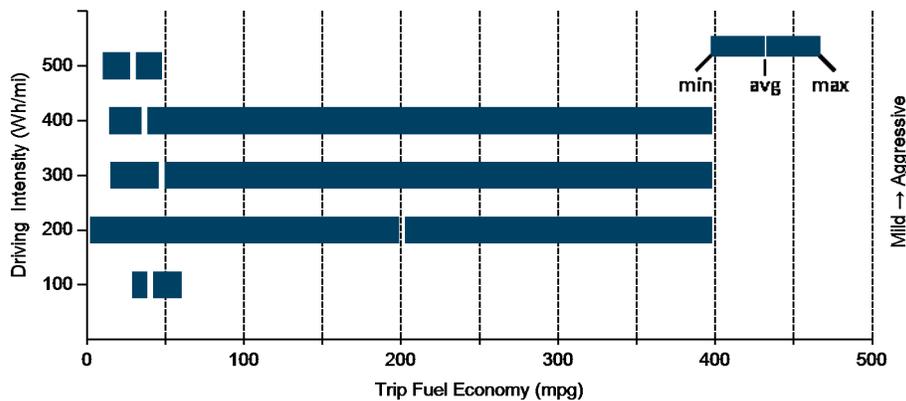
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

Gasoline fuel economy (mpg)	46	37
DC electrical energy consumption (DC Wh/mi)	59	48
Percent of miles with internal combustion engine off	31%	6%
Average trip driving intensity (Wh/mi)	286	328
Average trip distance (mi)	8	38

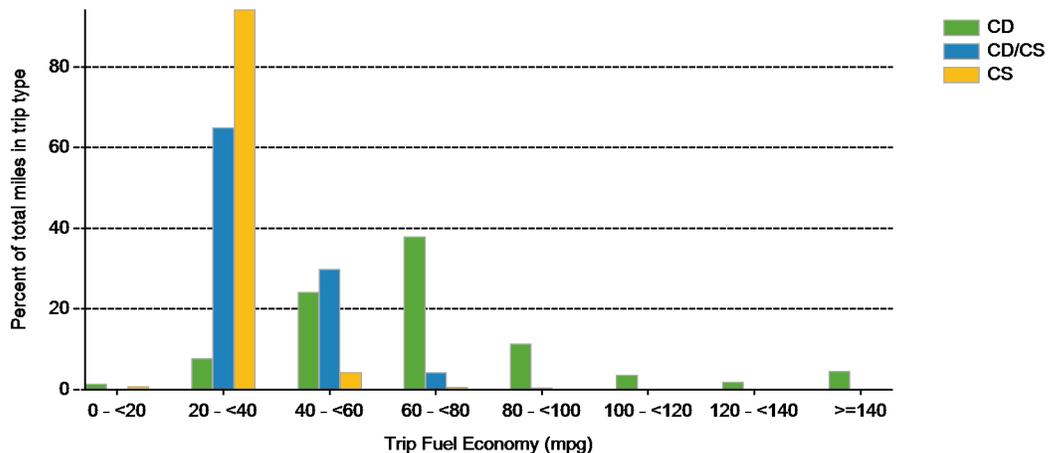
**Trips in Charge Sustaining (CS) mode**

Gasoline fuel economy (mpg)	32	33
Percent of miles with internal combustion engine off	20%	4%
Average trip driving intensity (Wh/mi)	280	320
Average trip distance (mi)	4	35

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



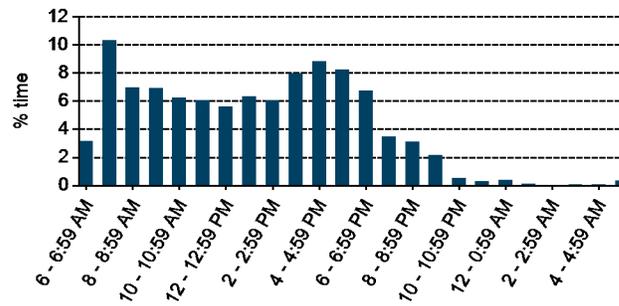
**Trip Fuel Economy Distribution By Trip Type**



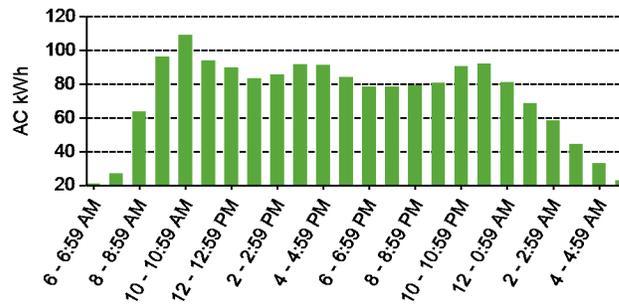
Plug-in charging

Average number of charging events per vehicle per month when driven	29
Average number of charging events per vehicle per day when driven	1.7
Average distance driven between charging events (mi)	30.8
Average number of trips between charging events	2.5
Average time plugged in per charging event (hr)	10.1
Average time charging per charging event (hr)	2.2
Average energy per charging event (AC kWh)	3.0
Average charging energy per vehicle per month (AC kWh)	87.1
Total number of charging events	572
Total charging energy (AC kWh)	1,742

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

