

## Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 11/01/2009 to 04/30/2012

Reporting period: Nov 09 - Apr 12

Number of vehicle days driven: 8,648

### All Trips Combined

|  |         |
|--|---------|
| Overall gasoline fuel economy (mpg)                              | 38      |
| Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup> | 100     |
| Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup> | 68      |
| Total number of trips  | 41,414  |
| Total distance traveled (mi)                                     | 498,463 |

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

|  |           |
|--|-----------|
| Gasoline fuel economy (mpg)                              | 52        |
| DC electrical energy consumption (DC Wh/mi) <sup>4</sup> | 164       |
| Number of trips  | 24,032    |
| Percent of trips city   highway                          | 83%   17% |
| Distance traveled (mi)                                   | 140,530   |
| Percent of total distance traveled                       | 28%       |

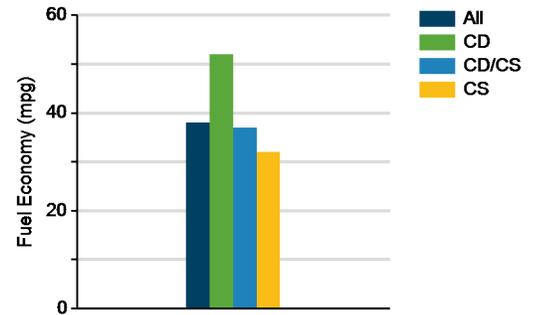
### Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes<sup>5</sup>

|  |           |
|--|-----------|
| Gasoline fuel economy (mpg)                              | 37        |
| DC electrical energy consumption (DC Wh/mi) <sup>6</sup> | 54        |
| Number of trips  | 7,763     |
| Percent of trips city   highway                          | 38%   62% |
| Distance traveled (mi)                                   | 214,676   |
| Percent of total distance traveled                       | 43%       |

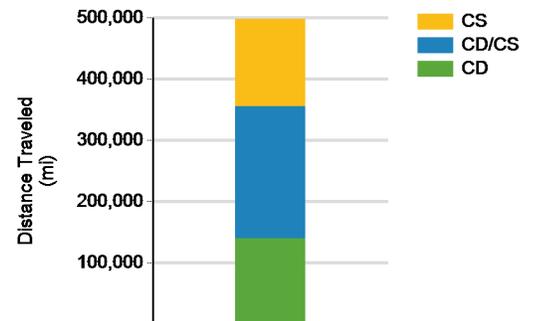
### Trips in Charge Sustaining (CS) mode<sup>7</sup>

|                                    |           |
|------------------------------------|-----------|
| Gasoline fuel economy (mpg)        | 32        |
| Number of trips                    | 9,610     |
| Percent of trips city   highway    | 66%   34% |
| Distance traveled (mi)             | 143,257   |
| Percent of total distance traveled | 29%       |

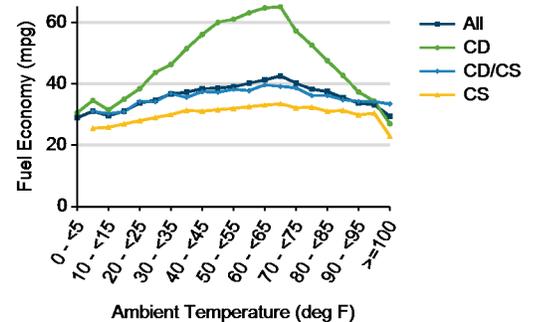
Gasoline Fuel Economy By Trip Type



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)                          | 48   | 58      |
| DC electrical energy consumption (DC Wh/mi)          | 162  | 166     |
| Percent of miles with internal combustion engine off | 36%  | 12%     |
| Average trip driving intensity (Wh/mi)               | 274  | 310     |
| Average trip distance (mi)                           | 3    | 17      |

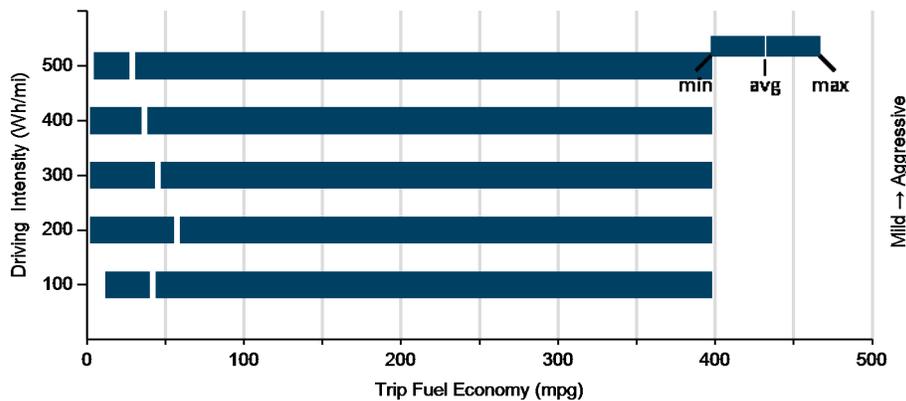
**Trips in Charge Depleting and Charge Sustaining (CD/CS) mode**

|  |     |     |
|--|-----|-----|
| Gasoline fuel economy (mpg)                          | 43  | 36  |
| DC electrical energy consumption (DC Wh/mi)          | 74  | 51  |
| Percent of miles with internal combustion engine off | 29% | 5%  |
| Average trip driving intensity (Wh/mi)               | 281 | 327 |
| Average trip distance (mi)                           | 9   | 39  |

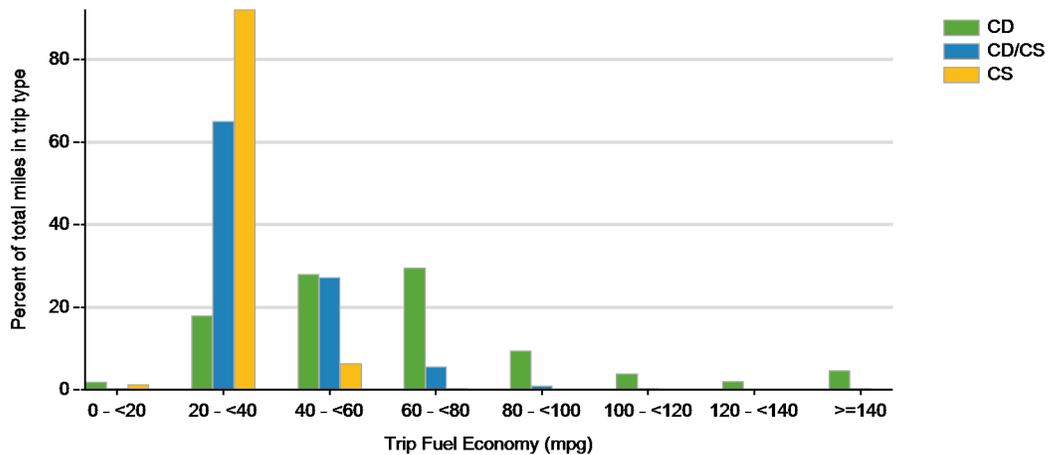
**Trips in Charge Sustaining (CS) mode**

|  |     |     |
|--|-----|-----|
| Gasoline fuel economy (mpg)                          | 30  | 32  |
| Percent of miles with internal combustion engine off | 23% | 4%  |
| Average trip driving intensity (Wh/mi)               | 272 | 324 |
| Average trip distance (mi)                           | 4   | 36  |

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



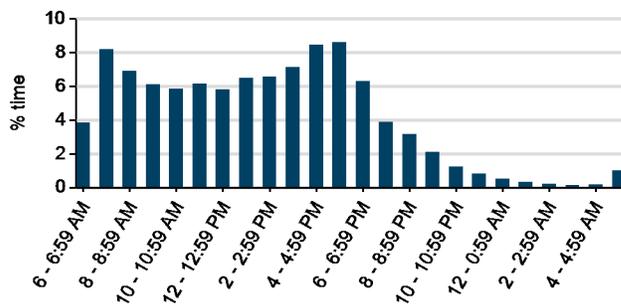
**Trip Fuel Economy Distribution By Trip Type**



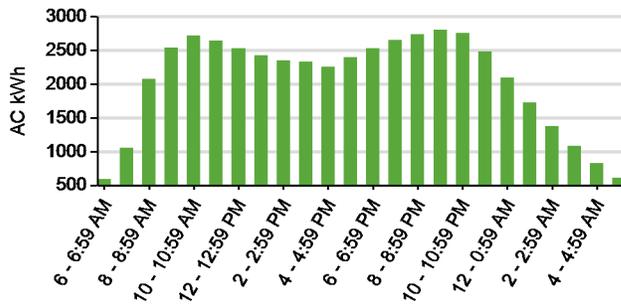
Plug-in charging

|   |        |
|---|--------|
| Average number of charging events per vehicle per month when driven | 27     |
| Average number of charging events per vehicle per day when driven   | 1.8    |
| Average distance driven between charging events (mi)                | 31.3   |
| Average number of trips between charging events                     | 2.6    |
| Average time plugged in per charging event (hr)                     | 7.7    |
| Average time charging per charging event (hr)                       | 2.3    |
| Average energy per charging event (AC kWh)                          | 3.1    |
| Average charging energy per vehicle per month (AC kWh)              | 85.6   |
| Total number of charging events                                     | 15,920 |
| Total charging energy (AC kWh)                                      | 49,667 |

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

