# Ford Escape Advanced Research Fleet

| | | | |
|---|---|---|---|
| Number of vehicles: | 20 | Date range of data received: | 01/01/2012 to 12/31/2012 |
| Reporting period: | January - December 2012 | Number of vehicle days driven: | 2,889 |

## All Trips Combined

| | |
|---|---|
| Overall gasoline fuel economy (mpg) | 39 |
| Overall AC electrical energy consumption (AC Wh/mi)[1] | 106 |
| Overall DC electrical energy consumption (DC Wh/mi)[2] | 73 |
| Total number of trips | 15,434 |
| Total distance traveled (mi) | 172,132 |

## Trips in Charge Depleting (CD) mode[3]

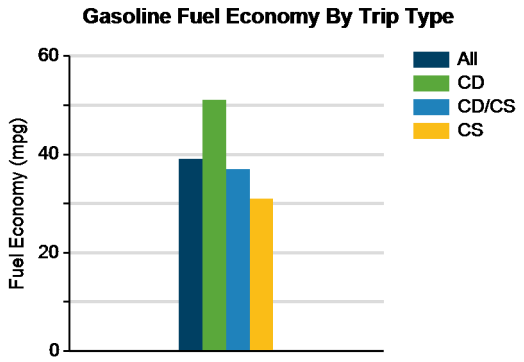
| | |
|---|---|
| Gasoline fuel economy (mpg) | 51 |
| DC electrical energy consumption (DC Wh/mi)[4] | 156 |
| Number of trips | 9,285 |
| Percent of trips city \| highway | 81% \| 19% |
| Distance traveled (mi) | 56,537 |
| Percent of total distance traveled | 33% |

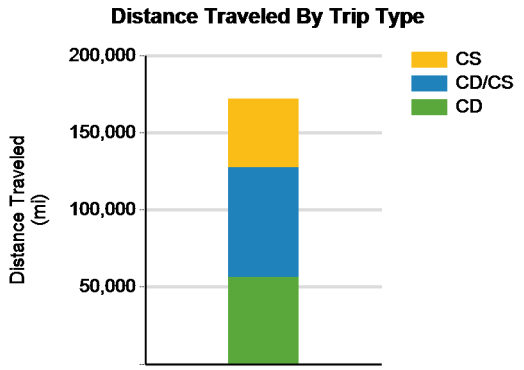
## Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes[5]

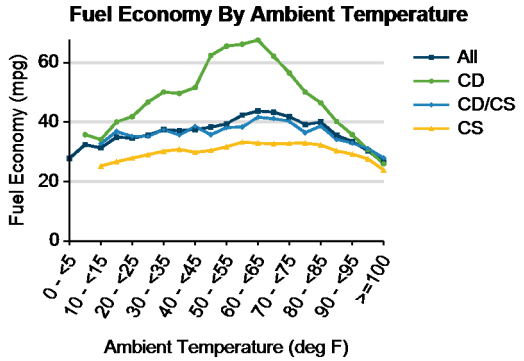
| | |
|---|---|
| Gasoline fuel economy (mpg) | 37 |
| DC electrical energy consumption (DC Wh/mi)[6] | 56 |
| Number of trips | 2,846 |
| Percent of trips city \| highway | 37% \| 63% |
| Distance traveled (mi) | 71,340 |
| Percent of total distance traveled | 41% |

## Trips in Charge Sustaining (CS) mode[7]

| | |
|---|---|
| Gasoline fuel economy (mpg) | 31 |
| Number of trips | 3,302 |
| Percent of trips city \| highway | 65% \| 35% |
| Distance traveled (mi) | 44,255 |
| Percent of total distance traveled | 26% |




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

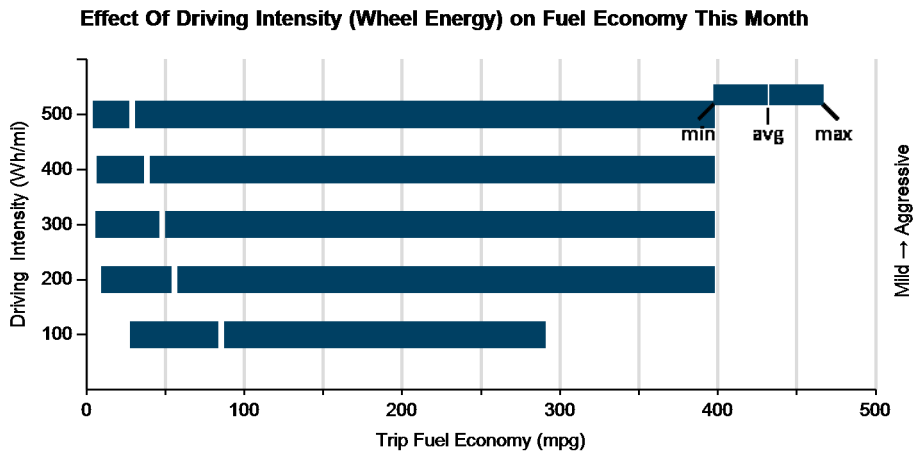
| | City | Highway |
|---|---|---|
| Gasoline fuel economy (mpg) | 44 | 58 |
| DC electrical energy consumption (DC Wh/mi) | 144 | 167 |
| Percent of miles with internal combustion engine off | 30% | 10% |
| Average trip driving intensity (Wh/mi) | 288 | 325 |
| Average trip distance (mi) | 3 | 17 |

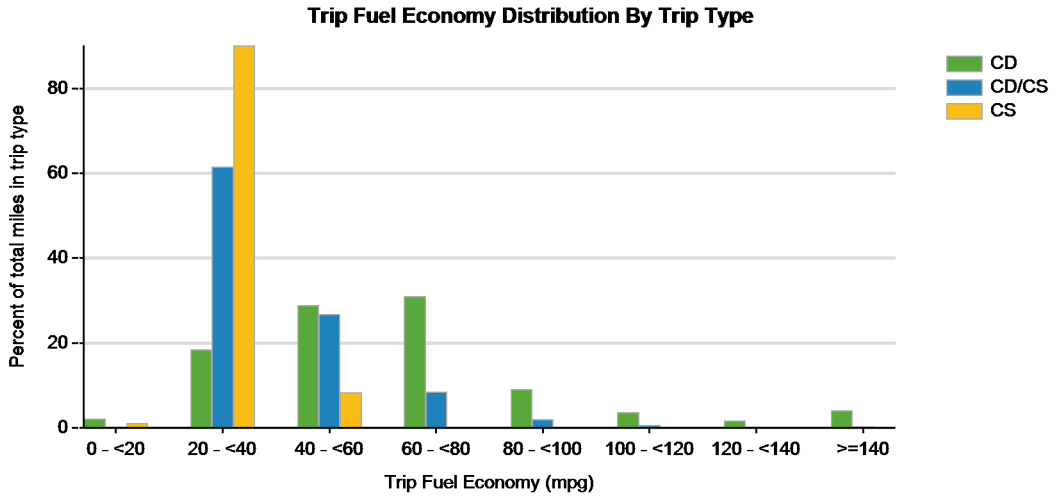
## Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

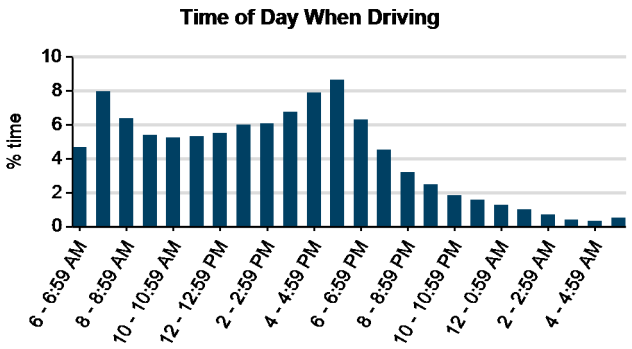
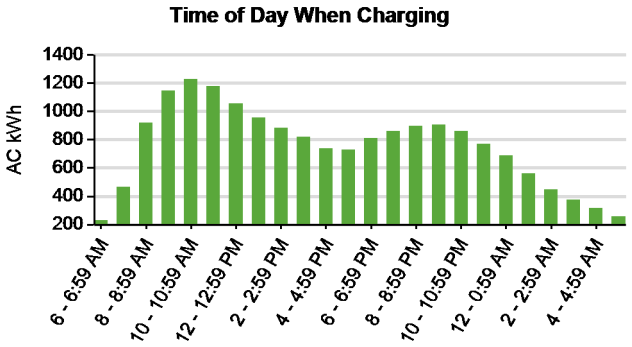
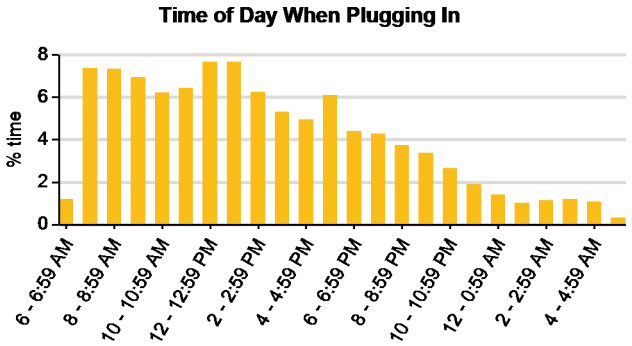
| | | |
|---|---|---|
| Gasoline fuel economy (mpg) | 42 | 37 |
| DC electrical energy consumption (DC Wh/mi) | 72 | 54 |
| Percent of miles with internal combustion engine off | 28% | 6% |
| Average trip driving intensity (Wh/mi) | 289 | 342 |
| Average trip distance (mi) | 9 | 35 |

## Trips in Charge Sustaining (CS) mode

| | | |
|---|---|---|
| Gasoline fuel economy (mpg) | 30 | 32 |
| Percent of miles with internal combustion engine off | 25% | 5% |
| Average trip driving intensity (Wh/mi) | 285 | 338 |
| Average trip distance (mi) | 3 | 32 |



## Plug-in charging

| | |
|---|---|
| Average number of charging events per vehicle per month when driven | 30 |
| Average number of charging events per vehicle per day when driven | 2.1 |
| Average distance driven between charging events (mi) | 28.4 |
| Average number of trips between charging events | 2.6 |
| Average time plugged in per charging event (hr) | 6.4 |
| 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) | 91.5 |
| Total number of charging events | 6,053 |
| Total charging energy (AC kWh) | 18,208 |