USPS eLLV Conversion Fleet

Fleet Location: Washington D.C Metro Area
Reporting period: June 2011
Number of Vehicles: 5
Number of vehicle days driven: 27

### All Trips Combined

- **Overall DC electrical energy consumption (DC Wh/mi)**: 452
- **Overall AC electrical energy consumption (AC Wh/mi)**: 646
- **Average operating electricity cost (cents per mile)**: 7.2

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of trips</td>
<td>639</td>
</tr>
<tr>
<td>Total distance traveled (mi)</td>
<td>394</td>
</tr>
<tr>
<td>Average Trip Distance (mi)</td>
<td>0.6</td>
</tr>
</tbody>
</table>

### Stop & Go Trips (>5 stops/mile)

- **DC electrical energy consumption (DC Wh/mi)**: 505
- **Number of trips**: 601
- **Distance traveled (mi)**: 245
- **Percent of total distance traveled (%)**: 62%
- **Average Trip Distance (mi)**: 0.4
- **Average Driving Speed (mph)**: 5.4
- **Average Stops per mile**: 34.8
- **Percent of Regen Braking Energy Recovery (%)**: 15%

### City Trips (<5 stops/mile & <37 mph avg)

- **DC electrical energy consumption (DC Wh/mi)**: 373
- **Number of trips**: 35
- **Distance traveled (mi)**: 124
- **Percent of total distance traveled (%)**: 31%
- **Average Trip Distance (mi)**: 3.5
- **Average Driving Speed (mph)**: 23.0
- **Average Stops per mile**: 3.7
- **Percent of Regen Braking Energy Recovery (%)**: 13%

### Highway Trips (<5 stops/mile & >37 mph avg)

- **DC electrical energy consumption (DC Wh/mi)**: 319
- **Number of trips**: 3
- **Distance traveled (mi)**: 25
- **Percent of total distance traveled (%)**: 6%
- **Average Trip Distance (mi)**: 8.5
- **Average Driving Speed (mph)**: 39.5
- **Average Stops per mile**: 3.3
- **Percent of Regen Braking Energy Recovery (%)**: 10%

1. Calculation based upon average of the vehicles’ roundtrip charging efficiency (70%)
2. From www.eia.gov, the national average cost of electricity is $0.112 per AC kWhr. The gasoline powered LLV fleet averages 10 mpg.

NOTE: A trip is defined as all vehicle operation between key on and key off.