CHART 2004 Evaluation and Comparison

- Yearly Data Quality -

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http://chartinput.umd.edu
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Available Data for Year 2004
– classified by type

<table>
<thead>
<tr>
<th>Year</th>
<th>Type</th>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Disabled Vehicles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>19,062</td>
<td>13,752</td>
<td>32,814</td>
</tr>
<tr>
<td>2003</td>
<td>20,455</td>
<td>18,068</td>
<td>38,523</td>
</tr>
<tr>
<td>2004</td>
<td>21,412</td>
<td>19,127</td>
<td>40,539</td>
</tr>
</tbody>
</table>

Note: Data Format – CHART II Database
Available Data for Year 2004
– classified by type and operations center

<table>
<thead>
<tr>
<th>Operations Center</th>
<th>TOC3</th>
<th>TOC4</th>
<th>SOC</th>
<th>TOC5</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disabled Vehicles</td>
<td>8,551</td>
<td>9,750</td>
<td>932</td>
<td>904</td>
<td>1,275</td>
<td>21,412 (20,455)</td>
</tr>
<tr>
<td>Incidents</td>
<td>6,464</td>
<td>6,066</td>
<td>2,996</td>
<td>157</td>
<td>3,444</td>
<td>19,127 (18,068)</td>
</tr>
<tr>
<td>Total</td>
<td>15,015</td>
<td>15,816</td>
<td>3,928</td>
<td>1,061</td>
<td>4,719</td>
<td>40,539 (38,523)</td>
</tr>
</tbody>
</table>

Note: Number in each parenthesis shows the data from Year 2003.
Data Quality Analysis

– definitions of invalid data

- The original data reported as any of the following categories are viewed as invalid data
  - Detection Source: “other no add. info.” and “other add. info.”
  - Type: No info.
  - Nature:
    - “other ” in the disabled vehicles type
    - “no add. info.” and “other add. Info.” in the incidents type
  - County: “unspecified” and “statewide”
  - Received Time, Confirmed Time, Dispatched Time, Arrival Time, Cleared Time: No info.
### Statistics Summary for Data Quality

<table>
<thead>
<tr>
<th>COUNTY SOURCE</th>
<th>NATURE</th>
<th>DIRECTION</th>
<th>TYPE</th>
<th>LOCATION</th>
<th>LANE BLOCKAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>99.50</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>99.97</td>
<td>100</td>
</tr>
<tr>
<td>99.89</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>99.97</td>
</tr>
<tr>
<td>95.26</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>99.97</td>
</tr>
<tr>
<td>91.03</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>99.97</td>
</tr>
</tbody>
</table>

Note: Lane Blockage parameter is not available for the Disabled Vehicles

**Note:** Lane Blockage parameter is not available for the Disabled Vehicles.
Statistics Summary for Data Quality and Comparison

COUNTY SOURCE NATURE DIRECTION TYPE LOCATION LANE BLOCKAGE

Year 2004 Year 2003

99.69 99.66 97.50 96.69 100 100 100 100 99.9999.99
63.77 62.46
Time of System Operations

- Occurrence of Incidents
- Detection of Incidents
- Dispatch of Response Units
- Arrival at the Incident Site
- Complete Recovery

- Detection Time
- Preparation Time
- Travel Time
- Clearance Time

- Response Time

- Incident Duration
Statistics Summary for Data Quality

- **RECEIVED TIME**: 100%
- **CONFIRMED TIME**: 87.31% (Incident), 87.48% (Disabled Vehicle)
- **DISPATCHED TIME**: 74.18% (Incident), 30.43% (Disabled Vehicle)
- **ARRIVAL TIME**: 86.40% (Incident), 95.75% (Disabled Vehicle)
- **CLEARED TIME**: 58.74% (Incident), 61.36% (Disabled Vehicle)

Legend:
- Incident
- Disabled Vehicle
Statistics Summary for Data Quality and Comparison

Year 2004 Year 2003

<table>
<thead>
<tr>
<th></th>
<th>RECEIVED TIME</th>
<th>CONFIRMED TIME</th>
<th>DISPATCHED TIME</th>
<th>ARRIVAL TIME</th>
<th>CLEARED TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>100</td>
<td>87.40</td>
<td>69.84</td>
<td>91.34</td>
<td>90.08</td>
</tr>
<tr>
<td>0%</td>
<td>10%</td>
<td>20%</td>
<td>30%</td>
<td>40%</td>
<td>50%</td>
</tr>
</tbody>
</table>