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Seattle
Proposed Corridor Safety Project
Aurora Avenue N
Collision Analysis

October 3, 2008
Summary

• Data covers 3 years (Apr. 2005 – Mar. 2008)
• Total # Collisions = 1,581
• Total # Fatal / Serious Collisions = 49
• Total # Alcohol-Related Collisions = 78
Federal highway safety laws require the state to have collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Total Collisions
Aurora Ave N (Battery St Tunnel to N 145th St)
4/1/05 - 3/31/08

Collision Severity
- Fatal
- Serious Injury
- Evident Injury
- Possible Injury
- Property Damage Only
Federal highway safety laws require the state to have collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.
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**Leading Collision Types**

**SR 99 Milepost 32.44 to 40.48**  
4/1/05 to 3/31/08

<table>
<thead>
<tr>
<th>Collision Type</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rearend</td>
<td>7</td>
<td>515</td>
</tr>
<tr>
<td>Angle</td>
<td>7</td>
<td>290</td>
</tr>
<tr>
<td>Sideswipe (SD)</td>
<td>4</td>
<td>244</td>
</tr>
<tr>
<td>Driveway-Related</td>
<td>2</td>
<td>168</td>
</tr>
<tr>
<td>Hit Fixed Object</td>
<td>11</td>
<td>139</td>
</tr>
<tr>
<td>Hit Parked Car</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>Hit Pedestrian</td>
<td>16</td>
<td>27</td>
</tr>
</tbody>
</table>

- **Fatal / Serious Collisions**
- **Non-Fatal / Serious Collisions**
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

<table>
<thead>
<tr>
<th>Leading Contributing Causes (# of Drivers)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SR 99 Milepost 32.44 to 40.48</strong></td>
<td></td>
</tr>
<tr>
<td><strong>4/1/05 to 3/31/08</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Leading Contributing Causes**

<table>
<thead>
<tr>
<th>Cause</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failing to Yield</td>
<td>10</td>
<td>373</td>
</tr>
<tr>
<td>Inattention</td>
<td>7</td>
<td>216</td>
</tr>
<tr>
<td>Following Too Close</td>
<td>2</td>
<td>194</td>
</tr>
<tr>
<td>Improper Turn</td>
<td>1</td>
<td>84</td>
</tr>
<tr>
<td>Exceeding Safe Speed</td>
<td>3</td>
<td>78</td>
</tr>
<tr>
<td>Under Influence of Alcohol</td>
<td>7</td>
<td>60</td>
</tr>
<tr>
<td>Disregard Signal</td>
<td>4</td>
<td>58</td>
</tr>
</tbody>
</table>

*Fatal / Serious Collisions, Non-Fatal / Serious Collisions*
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

### Roadway Surface Conditions

**SR 99 Milepost 32.44 to 40.48**  
**4/1/05 to 3/31/08**

<table>
<thead>
<tr>
<th>Surface Condition</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry</td>
<td>32</td>
<td>997</td>
</tr>
<tr>
<td>Wet</td>
<td>14</td>
<td>457</td>
</tr>
<tr>
<td>Ice</td>
<td>2</td>
<td>15</td>
</tr>
</tbody>
</table>

Legend:  
- Red: Fatal / Serious Collisions  
- Black: Non-Fatal / Serious Collisions
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Weather Conditions
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

<table>
<thead>
<tr>
<th>Weather Conditions</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>27</td>
<td>873</td>
</tr>
<tr>
<td>Raining</td>
<td>10</td>
<td>308</td>
</tr>
<tr>
<td>Overcast</td>
<td>10</td>
<td>273</td>
</tr>
</tbody>
</table>

Washington State Department of Transportation
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Light Conditions
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

<table>
<thead>
<tr>
<th>Light Condition</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daylight</td>
<td>25</td>
<td>1022</td>
</tr>
<tr>
<td>Dark - Street Lights On</td>
<td>19</td>
<td>370</td>
</tr>
<tr>
<td>Dusk</td>
<td>2</td>
<td>70</td>
</tr>
</tbody>
</table>

Legend:
- Fatal / Serious Collisions
- Non-Fatal / Serious Collisions
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Collisions by Month
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

Fatal / Serious Collisions
Non-Fatal / Serious Collisions

January 1
February 6
March 5
April 7
May 3
June 4
July 1
August 3
September 5
October 4
November 6
December 4

Washington State Department of Transportation

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Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

### Collisions by Day of Week

**SR 99 Milepost 32.44 to 40.48**

**4/1/05 to 3/31/08**

<table>
<thead>
<tr>
<th>Day</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>4</td>
<td>113</td>
</tr>
<tr>
<td>Monday</td>
<td>6</td>
<td>209</td>
</tr>
<tr>
<td>Tuesday</td>
<td>5</td>
<td>215</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9</td>
<td>205</td>
</tr>
<tr>
<td>Thursday</td>
<td>5</td>
<td>241</td>
</tr>
<tr>
<td>Friday</td>
<td>9</td>
<td>327</td>
</tr>
<tr>
<td>Saturday</td>
<td>11</td>
<td>222</td>
</tr>
</tbody>
</table>

**Legend**

- Fatal / Serious Collisions
- Non-Fatal / Serious Collisions
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Collisions by Hour of Day
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

Fatal / Serious Collisions
Non-Fatal / Serious Collisions
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**Age of Drivers**
**SR 99 Milepost 32.44 to 40.48**
**4/1/05 to 3/31/08**

[Graph showing the age distribution of drivers involved in collisions, with bars indicating the number of fatal/serious and non-fatal/serious collisions by age.]

**Legend:**
- Red: Fatal / Serious Collisions
- Black: Non-Fatal / Serious Collisions
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### Type of Vehicle

#### SR 99 Milepost 32.44 to 40.48
#### 4/1/05 to 3/31/08

<table>
<thead>
<tr>
<th>Type of Vehicle</th>
<th>Fatal / Serious Collisions</th>
<th>Non-Fatal / Serious Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Car</td>
<td>53</td>
<td>1761</td>
</tr>
<tr>
<td>Light Truck / SUV</td>
<td>17</td>
<td>1038</td>
</tr>
<tr>
<td>Heavy Truck</td>
<td>3</td>
<td>83</td>
</tr>
</tbody>
</table>

**Washington State Department of Transportation**

![Graph showing collision data by type of vehicle.](image)
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Use of Seat Belt / Child Seat (# of Occupants)
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

- Used Seat Belt / Child Seat: 72 (2603 total)
- Did Not Use Seat Belt / Child Seat: 7 (65 total)
- Unknown: 40 (1246 total)
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Type of Object Struck (in Hit Fixed Object Collisions)
SR 99 Milepost 32.44 to 40.48
4/1/05 to 3/31/08

Concrete Barrier
- 2 Fatal / Serious Collisions
- 28 Non-Fatal / Serious Collisions

Luminaire Pole
- 3 Fatal / Serious Collisions
- 21 Non-Fatal / Serious Collisions

Utility Pole
- 18 Non-Fatal / Serious Collisions

Tree / Stump (Stationary)
- 2 Fatal / Serious Collisions
- 10 Non-Fatal / Serious Collisions

Curb / Raised Traffic Island
- 2 Fatal / Serious Collisions
- 9 Non-Fatal / Serious Collisions

Building
- 1 Fatal / Serious Collisions
- 9 Non-Fatal / Serious Collisions
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### Collision Type Comparison

**SR 99 Milepost 32.44 to 40.48**

**1/1/05 to 12/31/07**

<table>
<thead>
<tr>
<th>Collision Type</th>
<th>SR 99</th>
<th>Seattle</th>
<th>WSDOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rearend</td>
<td>41.9%</td>
<td>33.0%</td>
<td>16.0%</td>
</tr>
<tr>
<td>Angle</td>
<td>22.0%</td>
<td>18.8%</td>
<td>15.0%</td>
</tr>
<tr>
<td>Sideswipe (SD)</td>
<td>15.7%</td>
<td>10.8%</td>
<td>12.2%</td>
</tr>
<tr>
<td>Driveway-Related</td>
<td>10.8%</td>
<td>9.2%</td>
<td>9.5%</td>
</tr>
<tr>
<td>Hit Fixed Object</td>
<td>9.2%</td>
<td>6.4%</td>
<td>11.3%</td>
</tr>
<tr>
<td>Hit Parked Car</td>
<td>3.5%</td>
<td>0.8%</td>
<td>26.7%</td>
</tr>
<tr>
<td>Hit Pedestrian</td>
<td>2.7%</td>
<td>3.4%</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

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Washington State Department of Transportation

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**Fatal / Serious Collision Type Comparison**

**SR 99 Milepost 32.44 to 40.48**

**1/1/05 to 12/31/07**

- Hit Pedestrian: 32.7%
- Hit Fixed Object: 22.4%
- Rearend: 18.7%
- Sideswipe (SD): 17.2%
- Hit Cyclist: 13.6%

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**Washington State Department of Transportation**
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Contributing Causes Comparison
SR 99 Milepost 32.44 to 40.48
1/1/05 to 12/31/07

<table>
<thead>
<tr>
<th>Cause</th>
<th>SR 99</th>
<th>Seattle</th>
<th>WSDOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failing to Yield</td>
<td>23.7%</td>
<td>19.5%</td>
<td>17.7%</td>
</tr>
<tr>
<td>Inattention / Distraction</td>
<td>16.0%</td>
<td>12.3%</td>
<td>12.7%</td>
</tr>
<tr>
<td>Following Too Close</td>
<td>12.1%</td>
<td>6.1%</td>
<td></td>
</tr>
<tr>
<td>Improper Turn</td>
<td>5.3%</td>
<td>4.1%</td>
<td>3.0%</td>
</tr>
<tr>
<td>Exceeding Safe Speed</td>
<td>5.0%</td>
<td>3.9%</td>
<td></td>
</tr>
<tr>
<td>Under Influence of Alcohol</td>
<td>4.1%</td>
<td>3.7%</td>
<td>4.2%</td>
</tr>
</tbody>
</table>
Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 499 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal or local government that involves the location(s) mentioned in the collision data.

Fatal / Serious Contributing Causes Comparison
SR 99 Milepost 32.44 to 40.48
1/1/05 to 12/31/07
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Angle Collisions
Aurora Ave N (Battery St Tunnel to N 145th St)
4/1/05 - 3/31/08

Collision Severity
- Fatal
- Serious Injury
- Evident Injury
- Possible Injury
- Property Damage Only

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**Driveway-Related Collisions**
**Aurora Ave N (Battery St Tunnel to N 145th St)**
**4/1/05 - 3/31/08**

**Collision Severity**
- Serious Injury
- Evident Injury
- Possible Injury
- Property Damage Only

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Hit Parked Car Collisions
Aurora Ave N (Battery St Tunnel to N 145th St)
4/1/05 - 3/31/08

Collision Severity
- Evident Injury
- Possible Injury
- Property Damage Only

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Hit Pedestrian/Cyclist Collisions
Aurora Ave N (Battery St Tunnel to N 145th St)
4/1/05 - 3/31/08

Collision Severity
- Ped - Fatal
- Ped - Serious Injury
- Ped - Evident Injury
- Ped - Possible Injury
- Ped - Property Damage Only
- Bike - Serious Injury
- Bike - Evident Injury
- Bike - Possible Injury
- Bike - Property Damage Only

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