Origin and Destination Study looks at major freeway flows into, out of, and through Lacey/Olympia/Tumwater area on I-5 and US 101.

Conducted on a Typical Wednesday in October 2010. Focus on rush hours 6 to 9:30 a.m. and 2:30 to 6 p.m.

License Plate Survey Revealed Common Trends for All Three Observation Points:
- Conducted at three locations (see attached info graphics for specifics)
  - US 101 at Mud Bay
  - I-5 at Mounts Road
  - I-5 at 113th Avenue SW
- Half of all daily traffic moves during these rush hours
- 45% in the AM and 55% in the PM rush hours
- 90% of rush hour trips begin and/or end in the study area
  - Of those, 40% local & 50% external
- 10% are through trips during rush hours

Park-n-Ride Survey
- Nearly all respondents are commuters who use the lot. Most use it 3-5 days each week.
- 50% van- or carpool; 40% ride the bus
- 50% travel to Tacoma

Mounts Road Survey
- 34,000 contacted, 4,100 responded (12%) – a great response rate
- Drive alone rate for all groups of respondents ranged 75-80%
- Van- and carpool rate for all groups of respondents hovered at 10%

Outbound Commuters
- In 2000, approximately 30,000 outbound commuters, 75% go north
- Projected in 2025 approximately 60,000 outbound commuters, 85% go north
- Outbound Commuters ~ State Government Employees
- Round trip in rush hours: Nearly all are commuters who make the trip 3-5 days per week. 54% are headed for exits between DuPont and Bridgeport, 22% to Tacoma. 50% from Martin, Marvin and Pacific.

Inbound Commuters
- In 2000, approximately 15,000 inbound commuters, one-third from north, more than half to Olympia
- Projected in 2025 approximately 30,000 commuters, smaller share from north, less than half to Olympia
- Round trip in rush hours: Large majority are commuters who make the trip 3-5 days per week. One-third to Marvin, Martin and Pacific, one-quarter to Plum and State Capitol, 10% to US 101. One-third from Tacoma, 20% from SR 512 and 20% from north of Tacoma.

Commercial Traffic – still substantial during rush hours (5-15%) but far less than other times of day (14-42%)

Implications * Sustainability * Focus * High Capacity * TDM & CTR * Cross-Jurisdictional
US 101 at Mud Bay Road SW - Location #1
Summary of Traffic Flow
AM & PM

Study area:

Our Study Area covers the urban limits of Lacey, Olympia and Tumwater. Location #1 refers to the flow of traffic observed at the Mud Bay Road SW overpass on Highway 101.

AM Peak Period: 6:00am to 9:30am

Number of Vehicles

- Traffic through 1 then through 2: 940 (16%)
- Traffic through 1 into Study Area: 4458 (77%)
- Traffic through 1 then through 3: 615 (20%)
- Traffic through 2 then through 1: 364 (6%)
- Traffic from Study Area through 1: 199 (6%)
- Traffic through 3 then through 1: 674 (77%)

Incoming traffic: 5092
Outgoing traffic: 2824
Total daily traffic: 7916

PM Peak Period: 2:30pm to 6:00pm

Number of Vehicles

- Traffic through 1 then through 2: 795 (17%)
- Traffic through 1 into Study Area: 3580 (74%)
- Traffic through 1 then through 3: 5073 (77%)
- Traffic through 2 then through 1: 440 (9%)
- Traffic from Study Area through 1: 311 (6%)
- Traffic through 3 then through 1: 1172 (18%)

Incoming traffic: 4925
Outgoing traffic: 3117
Total daily traffic: 8042

Total Daily Traffic: 38700 vehicles

Rush Hours
52%
20300 vehicles
I-5 at Mounts Road SW - Location # 2
Summary of Traffic Flow
AM & PM

Study Area:
Our Study Area covers the urban limits of Lacey, Olympia and Tumwater. Location #2 refers to the flow of traffic observed at the Mounts Road SW overpass on Freeway I-5 (Exit 116).

Traffic Flow Chart:
AM Peak Period: 6:00am to 9:30am
- Traffic through 2 then through 1: 615 vehicles (6%)
- Traffic through 2 into Study Area: 6737 vehicles (67%)
- Traffic through 2 then through 3: 11810 vehicles (80%)
- Traffic through 1 then through 2: 2710 vehicles (27%)
- Traffic from Study Area through 2: 2001 vehicles (14%)

PM Peak Period: 2:30pm to 6:00pm
- Traffic through 2 then through 1: 1172 vehicles (7%)
- Traffic through 2 into Study Area: 13177 vehicles (74%)
- Traffic through 2 then through 3: 8766 vehicles (71%)
- Traffic through 1 then through 2: 3393 vehicles (19%)
- Traffic from Study Area through 2: 2624 vehicles (22%)

Total Daily Traffic: 109900 vehicles

Rush Hours:
50% 55200 vehicles

90800 Passenger
19100 Commercial
I-5 at 113th Avenue SW - Location # 3
Summary of Traffic Flow
AM & PM

Study area:

Our Study Area covers the urban limits of Lacey, Olympia and Tumwater. Location # 3 refers to the flow of traffic observed at the 113th Avenue SW overpass on Freeway I-5.

AM Peak Period:
6:00am to 9:30am

Number of Vehicles

<table>
<thead>
<tr>
<th>Traffic Type</th>
<th>AM Traffic</th>
<th>PM Traffic</th>
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<tbody>
<tr>
<td>Traffic through 3 then through 1</td>
<td>4511 (67%)</td>
<td>3202 (52%)</td>
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<tr>
<td>Traffic through 3 into Study Area</td>
<td>364 (6%)</td>
<td>5820 (60%)</td>
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<tr>
<td>Traffic through 3 then through 2</td>
<td>2001 (30%)</td>
<td>2624 (43%)</td>
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<tr>
<td>Traffic through 1 then through 3</td>
<td>199 (3%)</td>
<td>311 (5%)</td>
</tr>
<tr>
<td>Traffic from Study Area through 3</td>
<td>2710 (41%)</td>
<td>3393 (35%)</td>
</tr>
<tr>
<td>Traffic through 2 then through 3</td>
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</tr>
</tbody>
</table>

Total Daily Traffic: 60800 vehicles

Rush Hours
48%
29000 vehicles