PNWER 2017 Annual Summit
Oil Transportation Session Panel

July 25, 2017    |    Frank E. Holmes – Director NW Region
Western States Petroleum Association
Bulk Oil Moved in Washington State

Legend:
- By Pipeline
- By Railroad
- By Vessel
- Refinery
- Active Terminal
- Proposed Terminal

Entering Washington
- Origin Canada
- Anacortes
- Seattle
- Tacoma
- Tri-Cities
- Moses Lake
- Spokane
- Vancouver
- Aberdeen
- Ferndale
- Cherry Point

Entering & Leaving Washington

Map showing the routes of bulk oil movement in Washington State.
Trans Mountain Markets

Trans Mountain History

<table>
<thead>
<tr>
<th>Destination</th>
<th>Barrels Per Day 2013</th>
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</thead>
<tbody>
<tr>
<td>BC</td>
<td>84,000</td>
</tr>
<tr>
<td>Washington State</td>
<td>135,000</td>
</tr>
<tr>
<td>Offshore</td>
<td>58,000</td>
</tr>
<tr>
<td>Total</td>
<td>277,000</td>
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</tbody>
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Washington State Refineries
Source of Crude Oil – 2015

- Alaska: 36%
- Canada Conventional: 25%
- Canada Oil Sands: 22%
- Bakken: 11%
- Other: 6%