Working Draft: Inventory of Freight Assets

Freight Advisory Committee
October 9, 2019
Per previous discussions:

- Inventory of assets
  - Meant to be a high level introduction, not a detailed freight report
  - Data / anecdotes on economic impacts, types of goods, “why it matters”
- Visualization options
- Next steps
Inventory of Freight Assets – Working Draft

• Working draft map =
  • T-1 through T-5 routes
  • Rail lines
  • Ports
  • Airports
  • MICs and Industrial Lands
  • Truck parking
  • Intermodal facilities
  • Warehouses
Inventory of Freight Assets – Working Draft

- Railways
  - Explain classifications
  - Types of products moved
  - Connections

For example:
- products moved range from consumer electronics to heavy bulk goods
- important intermodal connection
- other important things to highlight?
Inventory of Freight Assets – Working Draft

- Marine
  - Explain classifications
  - Types of products moved
  - Connections

For example:
- moves bulk goods such as crude oil, aircraft parts and automobiles
- important role in moving agricultural products
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• Marine

• Three major ports – anecdotes, products, economic impact
  
  • NW Seaport Alliance – supported over 58,000 jobs in 2017, over $77 billion in international trade; links to international markets in Asia and elsewhere
  
  • Port of Everett – specializes in high value, over dimensional cargo such as airplane and aerospace parts; supported over 35,000 jobs and $373 million in state and local tax revenue
  
  • Other interesting anecdotes / information to share?
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• Air
  • Locations
  • Products moved
  • connections

For example:
• moves high value and/or perishable products
• three airports – SeaTac, Boeing Field and Paine Field
• 85% of Washington State air cargo market held by Sea-Tac and Boeing Field
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• MICs and Industrial lands
  • Describe areas, uses
  • Economic impacts

• 13 subareas in the region with concentrations of industrial lands, including 10 MICs

• Accounts for more than 345,000 jobs in industries such as aerospace manufacturing, wholesaling, distribution and logistics, ship and boat building and others

• Gross business income of these industries amounted to $917 billion in 2018, 57% of the state’s total
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- Highways
  - Explain T-1 through 5 system
  - Key facilities
  - Explaining truck parking system, constraints

For example:
- Over 60% of freight in the region is moved by trucks
- I-5 and I-90 are two of the main corridors for truck travel
- Serves both intra-region and throughput, as well as connecting to other modes
Example of truck data that may be useful to share:

Truck Trips by Traffic Analysis Zone

As expected, daily truck trips tend to be concentrated in areas across the region with a focus in places with industrial uses. The two largest single origins for truck trips in the region in 2014 were Harbor Island (3199 daily truck trips, 3.97% of all truck trips in the region) and Summer/Pacific (3044 daily truck trips, 3.78% of all truck trips in the region).
Example of truck data that may be useful to share:

<table>
<thead>
<tr>
<th>Industrial Lands</th>
<th>Internal</th>
<th>External</th>
<th>Total</th>
<th>Internal</th>
<th>External</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>405 Corridor</td>
<td>2,180</td>
<td>181</td>
<td>2,361</td>
<td>2,201</td>
<td>133</td>
<td>2,334</td>
</tr>
<tr>
<td>Arlington - Smokey Point</td>
<td>796</td>
<td>211</td>
<td>1,007</td>
<td>643</td>
<td>151</td>
<td>794</td>
</tr>
<tr>
<td>Ballard - Interbay</td>
<td>883</td>
<td>91</td>
<td>975</td>
<td>921</td>
<td>67</td>
<td>989</td>
</tr>
<tr>
<td>DuPont - Gray Field</td>
<td>141</td>
<td>51</td>
<td>192</td>
<td>265</td>
<td>79</td>
<td>344</td>
</tr>
<tr>
<td>Duwamish - North Tekiawa</td>
<td>7,661</td>
<td>689</td>
<td>8,351</td>
<td>7,339</td>
<td>626</td>
<td>7,965</td>
</tr>
<tr>
<td>Frederickson - Lakewood</td>
<td>2,181</td>
<td>353</td>
<td>2,534</td>
<td>2,256</td>
<td>321</td>
<td>2,580</td>
</tr>
<tr>
<td>North Kent Valley</td>
<td>5,753</td>
<td>851</td>
<td>6,605</td>
<td>6,023</td>
<td>801</td>
<td>6,826</td>
</tr>
<tr>
<td>North-Central Everett</td>
<td>339</td>
<td>77</td>
<td>416</td>
<td>328</td>
<td>63</td>
<td>391</td>
</tr>
<tr>
<td>Puyallup Valley - Tacoma</td>
<td>6,446</td>
<td>1,097</td>
<td>7,543</td>
<td>7,021</td>
<td>1,041</td>
<td>8,062</td>
</tr>
<tr>
<td>Sea-Tac</td>
<td>217</td>
<td>23</td>
<td>240</td>
<td>238</td>
<td>20</td>
<td>259</td>
</tr>
<tr>
<td>Sinclair Inlet - PSICB</td>
<td>315</td>
<td>47</td>
<td>362</td>
<td>293</td>
<td>42</td>
<td>335</td>
</tr>
<tr>
<td>South Kent Valley</td>
<td>7,481</td>
<td>972</td>
<td>8,454</td>
<td>7,452</td>
<td>981</td>
<td>8,434</td>
</tr>
<tr>
<td>Southwest Everett</td>
<td>1,038</td>
<td>201</td>
<td>1,240</td>
<td>1,065</td>
<td>183</td>
<td>1,249</td>
</tr>
<tr>
<td>Rest of Region</td>
<td>33,814</td>
<td>6,473</td>
<td>40,288</td>
<td>33,477</td>
<td>6,329</td>
<td>39,806</td>
</tr>
</tbody>
</table>

Showing 1 to 14 of 14 entries
Visualization Options

- Different options for web mapping, and to connect the stories:

  San Diego
  https://gis.sandag.org/FreightViewer/#map

  New Jersey
  http://freightactivitylocator.njtpa.org/

  Philadelphia
  https://www.dvrpc.org/webmaps/phillyfreightfinder/#home

  Boston
  https://hubway.countlove.org/
Visualization Options

Example of two related, but distinct, data points on a page.
Next Steps

• Step 1 = December Transportation Policy Board introduction to the inventory of freight assets, key data

• Step 2 =
  • Further analysis of truck trips and O/D data
    • What are the patterns, key takeaways
  • Incorporation of RTP trip times / delay data on specific corridors