

Pacific States/British Columbia Oil Spill Task Force

**Volumes of Crude Oil Transported in 2016  
via Rail, Pipeline, Barge and Vessel  
in the Task Force Jurisdictions**



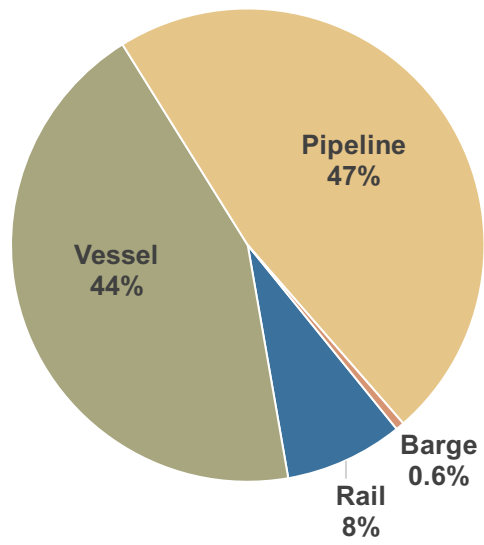
ALASKA • BRITISH COLUMBIA • CALIFORNIA • HAWAII • OREGON • WASHINGTON

2016	Rail	Vessel	Pipeline	Barge	Notes
Alaska	N/A	183,495,530 bbls	189,539,817 bbls	N/A	Data source: <a href="http://www.alyeska-pipe.com/TAPS/PipelineOperations/Throughput">http://www.alyeska-pipe.com/TAPS/PipelineOperations/Throughput</a>
British Columbia	Unknown	Port Metro Vancouver: 14,403,428* bbls	Trans-mountain capacity (Edmonton-Burnaby): 109,500,000 barrels per year @ 300,000 barrels per day Pembina: Unknown	Unknown	Oil movement statistics in Canada is not a legislative requirement. Data available by industries vary widely. The statistics provided are capacity, with the exceptions of Port of Metro Vancouver data. *Estimates from 2012 by Nuka Research: 251.5 million barrels per year of persistent oil & 151.6 million barrels per year of non-persistent oil.
California	From Out of State: 1,188,508 bbls  In 2016 rail cars "originated" from Wyoming and New Mexico.	From Alaska: 68,765,000 bbls  From Foreign Sources: 38,513,000 bbls	<i>In-state production:</i>  205,582,000 bbls	1,216,000 bbls crude oil transfers by barge.	Data Sources: <a href="http://www.energy.ca.gov/almanac/petroleum_data/">http://www.energy.ca.gov/almanac/petroleum_data/</a> <a href="http://www.energy.ca.gov/almanac/petroleum_data/statistics/2016_crude_by_rail.html">http://www.energy.ca.gov/almanac/petroleum_data/statistics/2016_crude_by_rail.html</a> <a href="http://www.conservation.ca.gov/dog/pubs_stats/annual_reports/Pages/annual_reports.aspx">http://www.conservation.ca.gov/dog/pubs_stats/annual_reports/Pages/annual_reports.aspx</a> <a href="https://www.eia.gov/petroleum/supply/monthly/">https://www.eia.gov/petroleum/supply/monthly/</a> State Lands Commission staff.
California	1,188,508 bbls imported. In 2016 rail cars originated from	From Alaska: 68,765,000 bbls  From Foreign Sources:	<i>In-state production:</i>  205,582,000 bbls	1,216,000 bbls crude oil transfers by barge.	Data Sources: <a href="http://www.energy.ca.gov/almanac/petroleum_data/">http://www.energy.ca.gov/almanac/petroleum_data/</a>

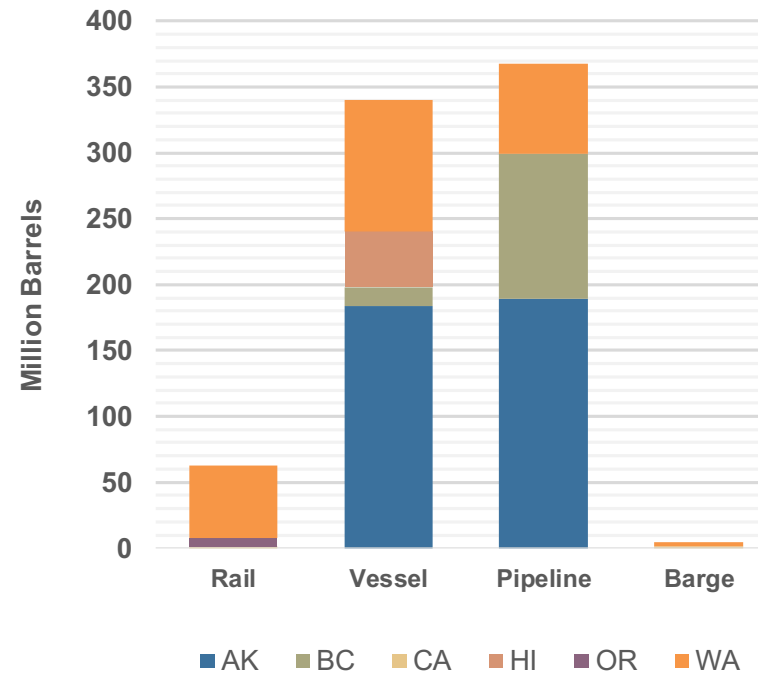
2016	Rail	Vessel	Pipeline	Barge	Notes
	Wyoming and New Mexico.	38,513,000 bbls			<a href="http://www.energy.ca.gov/almanac/petroleum_data/statistics/2016_crude_by_rail.html">http://www.energy.ca.gov/almanac/petroleum_data/statistics/2016_crude_by_rail.html</a> <a href="http://www.conservation.ca.gov/dog/pubs_stats/annual_reports/Pages/annual_reports.aspx">http://www.conservation.ca.gov/dog/pubs_stats/annual_reports/Pages/annual_reports.aspx</a> State Lands Commission
Hawaii	N/A	42,254,880 bbls	N/A	N/A	TESORO: 25,722,600 bbls CHEVRON: 16,482,280 bbls
Oregon	6,561,300 bbls	N/A	N/A	N/A	
Washington	55,000,000 bbls	99,913,795 bbls	68,932,000 bbls	3,276,012 bbls	Vessel and barge volume based on data from Ecology's Advanced Notice of Transfer System. Barge data includes Articulated Tug and Barge (ATB). Pipeline volume reported by pipelines. Rail volume is estimated based on three months of new Ecology crude by rail reporting requirements and by comparing estimated volumes of crude delivered by trains with refinery through-put capacity.

**Assumptions:**

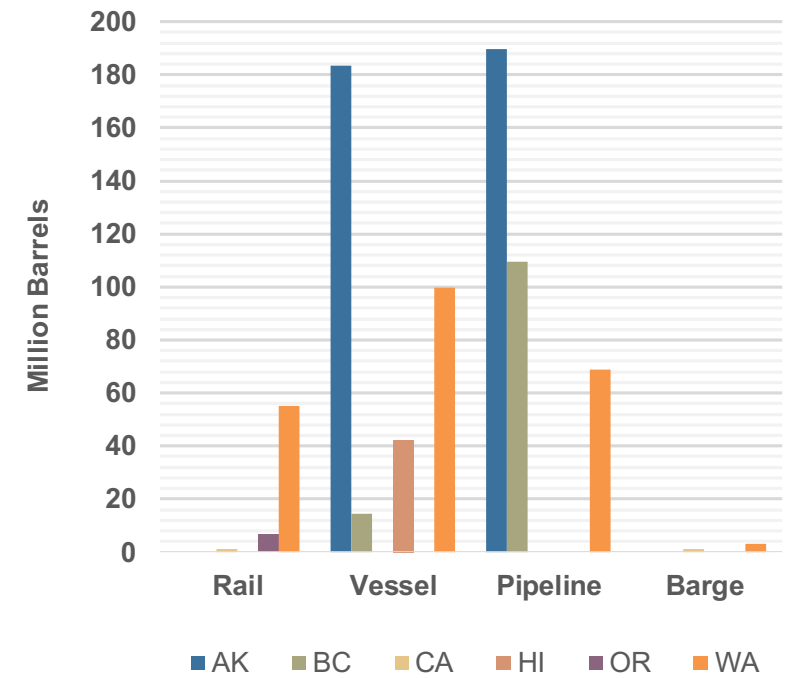
- All volumes reported in barrels (bbl)
- Definition of Crude Oil: All crude oils including Bakken, Alaska North Slope, oil sands products, black waxy and other crudes
- N/A: No transport of crude currently taking place
- Unknown: Transported volumes not currently tracked or measured.



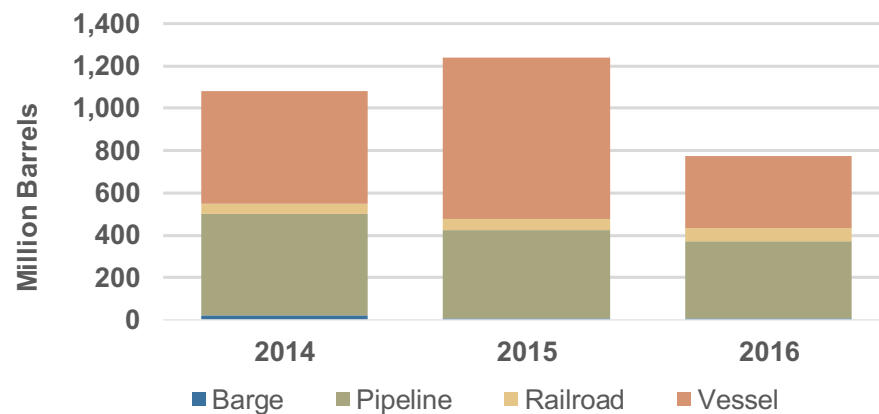
Graph 1: Percent total annual volume by transportation mode (2016)



Graph 2: Annual volume by transportation mode and jurisdiction (2016)



Graph 3: Annual volume by transportation mode and jurisdiction (2016)



Graph 4: Total annual volume by transportation mode (2014-2016)