

Pacific States/British Columbia Oil Spill Task Force

**Volumes of Crude Oil Transported in 2017
via Rail, Pipeline, Barge and Vessel
in the Task Force Jurisdictions**



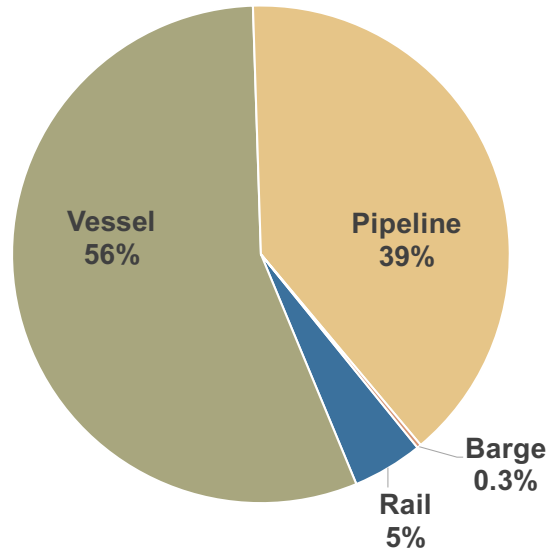
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2017	Rail	Vessel	Pipeline	Barge	Notes and Sources
Alaska	n/a	183,154,022 bbls (loaded to tankers from the VMT)* Note: This volume is included in the Pipeline total. The oil in this category is transferred from the pipeline to tanker vessels.	192,472,797 bbl. **	N/A	<i>Data source:</i> APSC* http://www.alyeska-pipe.com/TAPS/PipelineOperations/Throughput ** (All of the oil transported in vessels was first transported in the pipeline. The vessel transportation amount reflects the amount of oil transported via pipeline less oil offloaded at two locations along the pipeline route. It is not from a second production source.)
British Columbia	N/A	12,197,158 bbls US Barrels through Port Metro Vancouver. No crude through Prince Rupert	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 <u>by vessel and barges</u> .
California	3.1 million bbls imported into Calif (59% from Canada, the remainder from NM and WY)	435 million bbls (82% from foreign countries, 18% from Alaska)	185 million bbls (all produced in Calif)	1 barge from WA; 397,443 bbls No data from OR or Canada.	<i>Data Sources:</i> http://www.energy.ca.gov/almanac/petroleum_data/ http://www.energy.ca.gov/almanac/petroleum_data/statistics/2016_crude_by_rail.html

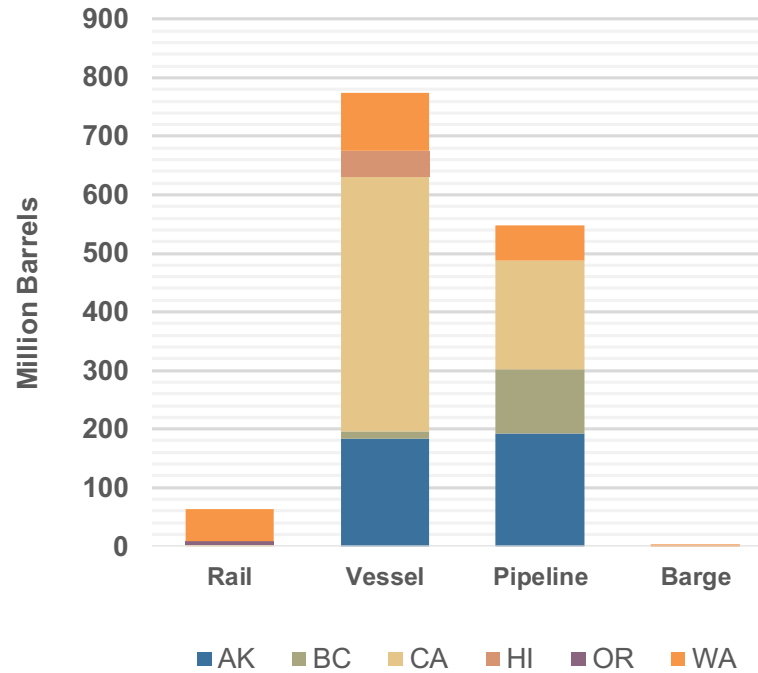
2017	Rail	Vessel	Pipeline	Barge	Notes and Sources
					http://www.conservation.ca.gov/dog/pubs_stats/annual_reports/Pages/annual_reports.aspx https://www.eia.gov/petroleum/supply/monthly/ State Lands Commission staff.
Hawaii	N/A	44,858,488 bbls	N/A	N/A	Obtained from IES Downstream, LLC and Par Pacific
Oregon	5,996,618	N/A	N/A	N/A	
Washington	54,406,608 bbls crude	99,406,390 bbls crude	60,728,038 bbls crude	3,255,144 bbls crude	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 based on data from Ecology's Advance Notice of Transfer System.

Assumptions:

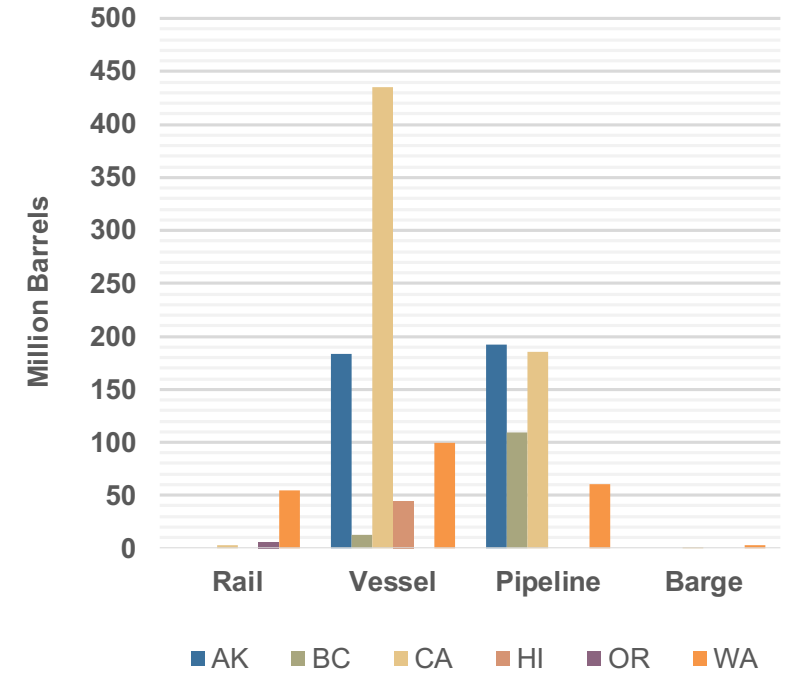
- All volumes reported in barrels (bbl)
- Definition of Crude Oil: All crude oils including Bakken, Alaska North Slope, oil sands products, black waxy and other crudes
- N/A: No transport of crude currently taking place
- Unknown: Transported volumes not currently tracked or measured.



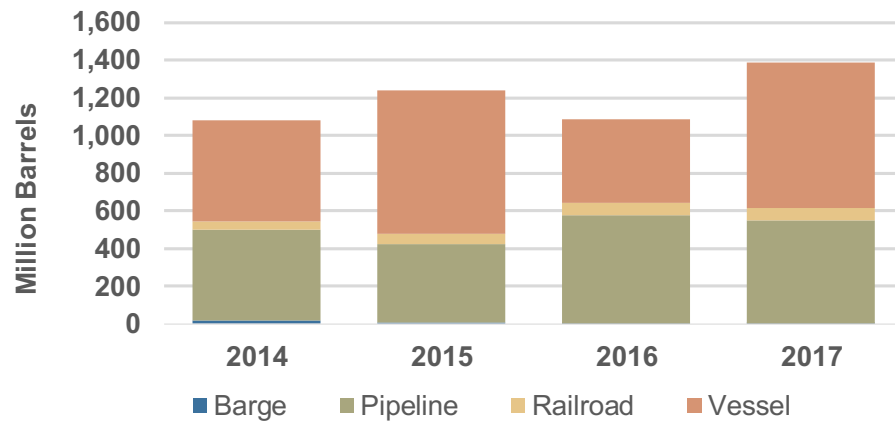
Graph 1: Percent total annual volume by transportation mode (2017)



Graph 2: Annual volume by transportation mode and jurisdiction (2017)



Graph 3: Annual volume by transportation mode and jurisdiction (2017)



Graph 4: Total annual volume by transportation mode (2014-2017)