

Crude Oil Movement

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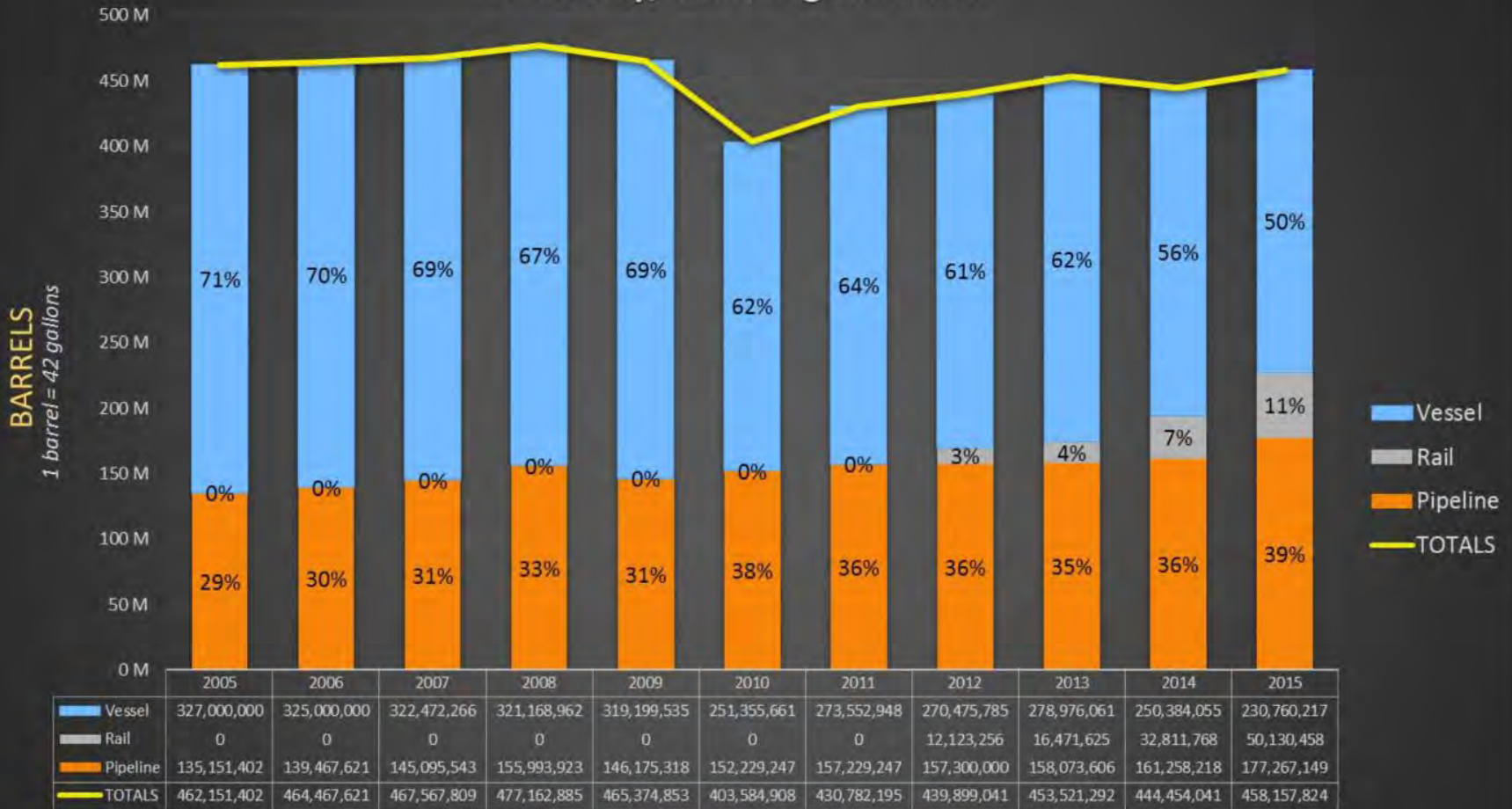
Bulk Oil Moved in Washington State

Legend

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



Total Oil Movement* Annually, Washington State



OIL MOVED BY YEAR AND MODE

*All oil of any kind including, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, biological oils and blends. Cargo only. Does not include fueling transfers.



2015
Oil Transportation
Safety Act

Policy initiatives

- Contingency Plans – Railroad Rule
- Geographic Response Plan (GRP) Review
- Equipment Cache Grants
- Vessel Traffic Assessments
- Crude Oil Movement Notification Rule



Required
Contingency
Planning for Rail



Continued
Geographic
Response
Planning

Provide
Equipment
Cache
Grants





Columbia

River

Vessel

Traffic

Safety Evaluation &

Assessment

Crude Oil Movement Notification Rule



Why it matters

- Responder safety
- Public health and safety
- Environmental resources protection
- Economic resources protection
- Cultural resources protection

Scope of the rule

Establishes notification requirements for:

- **Facilities** (receiving crude oil by rail)
- **Pipelines**
(transporting crude oil in or through the state)

Establishes reporting procedures for:

- **Ecology** to share information with emergency responders, local governments, tribes and the public

Facility requirements

Must report on all scheduled crude oil deliveries each week



Rail routes for reporting



Pipeline requirements

Submit to Ecology twice annually (01/31 and 07/31)

Must report:

- Contact Information
- Volume
- By place of origin (state or province)



Ecology reporting procedures

Quarterly Reports

- Aggregated crude-by-rail data
- Crude-by-pipeline information
- Reported spills during transport and delivery

Available to the Public

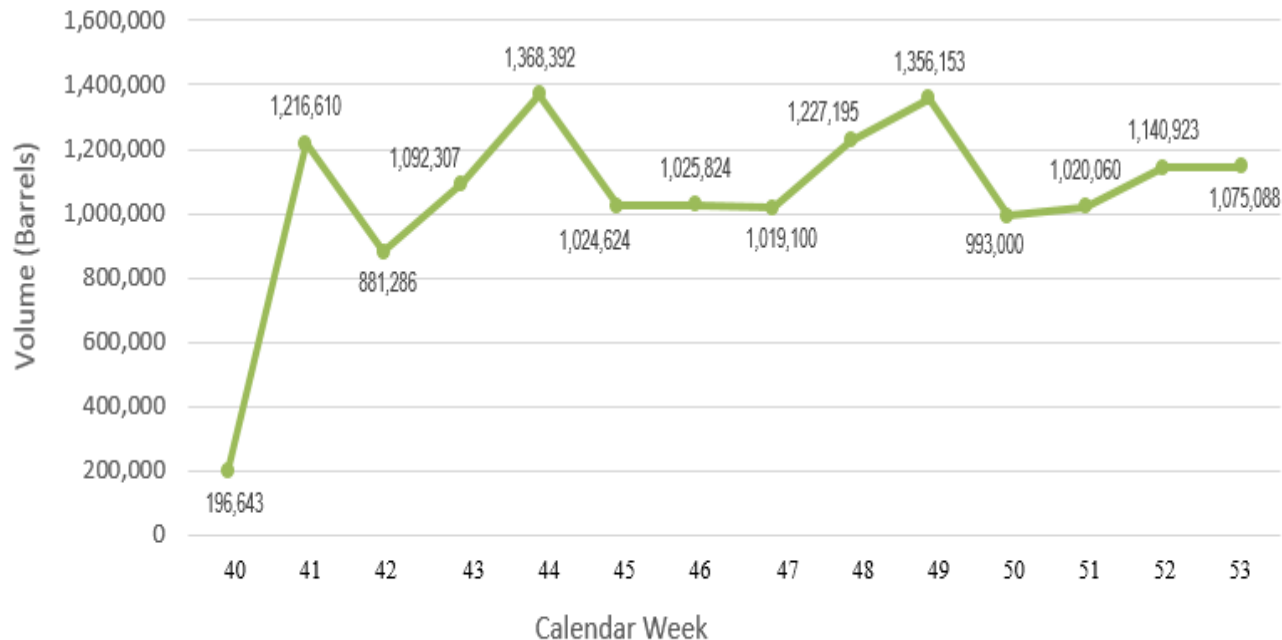
Advance Notification of Oil Transfer (ANT) System

- Facilities submit directly into ANT database
- Emergency response community uses to view

NOT Available to the Public

Crude oil by rail

Weekly Total Volumes of Crude Oil by Rail



for the period

October 1, 2016 to December 31, 2016

- The total quarterly volume of crude oil movement by rail was 14,637,205 barrels (614,762,610 gallons).
- Alberta was the region of origin for 6% of crude oil by rail, while North Dakota was the region of origin for 94% of crude oil by rail.
- The total number of rail cars moving crude oil by rail was 21,497.

Crude oil by pipeline



For the period
July 1, 2016 to December 31, 2016
33,213,696 barrels (1,394,975,232 gallons)
entered the state from Alberta, Canada.

Crude oil spills: Rail and pipeline

Zero reported spills during the transport and delivery of crude oil by rail and pipeline for 4th quarter 2016.



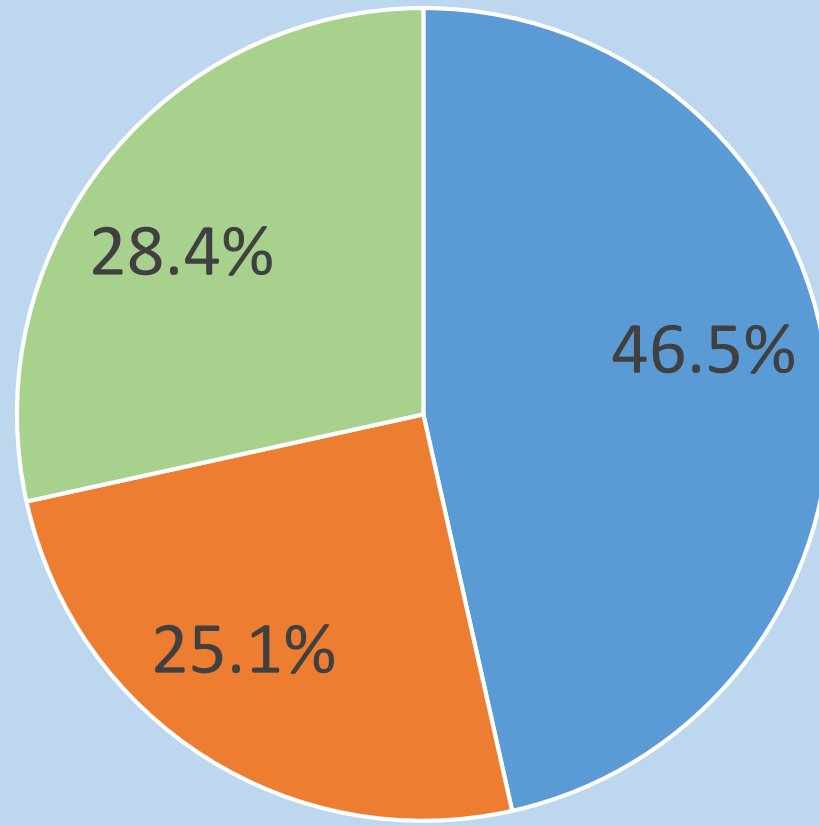
Crude oil by vessel

The total volume from all vessel transfers of crude oil for the 4th quarter of 2016 was 27,283,953 barrels (1,145,926,026 gallons).



Totals for vessel, rail, pipeline

Reported Crude Oil Movement by Mode



Only used Inbound
volumes for vessels.

■ Vessel (Inbound) ■ Rail ■ Pipeline

