



December 2017 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
December 15, 2017

North Dakota Impact of Smaller Discount

- 2016 Weighted Average Discount: \$7.71
- June-October 2017 Wt. Average Discount: \$5.00
- \$2.71/BBL Improvement Post DAPL Commercial In-Service
- 164,873,243 Taxable Barrels In June-October 2017
- Wt. Avg. Tax Rate in June-October 2017: 9.74%

Three Month Revenue Impact

- $9.74\% \times 164,873,243 \times \$2.71 =$

**\$43.5 Million Additional State Revenue
When Compared to Avg. 2016 Discount**

**Does Not Include Royalty Owner
and Industry Revenue Impact**

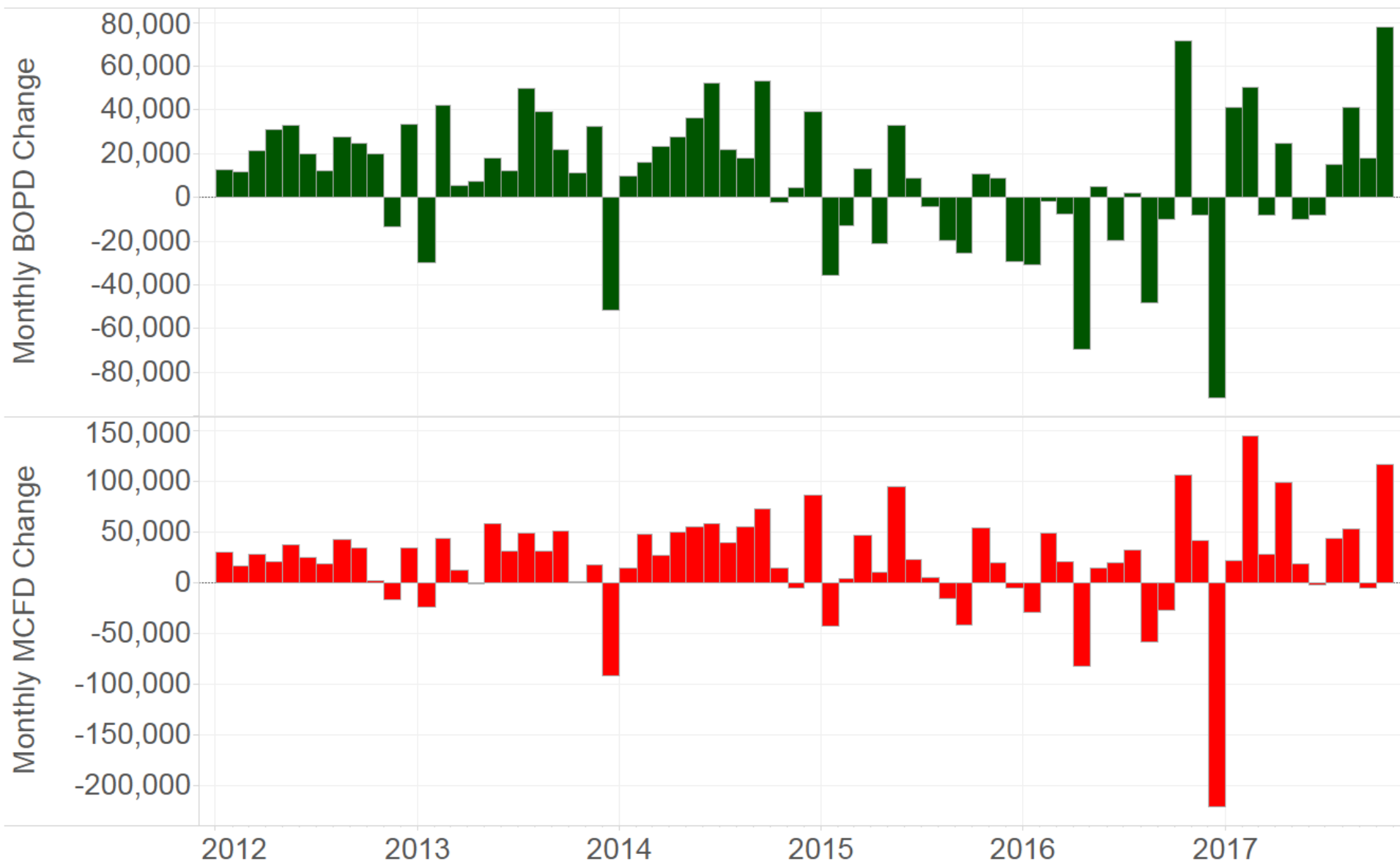


US Williston Basin Oil Production - 2017

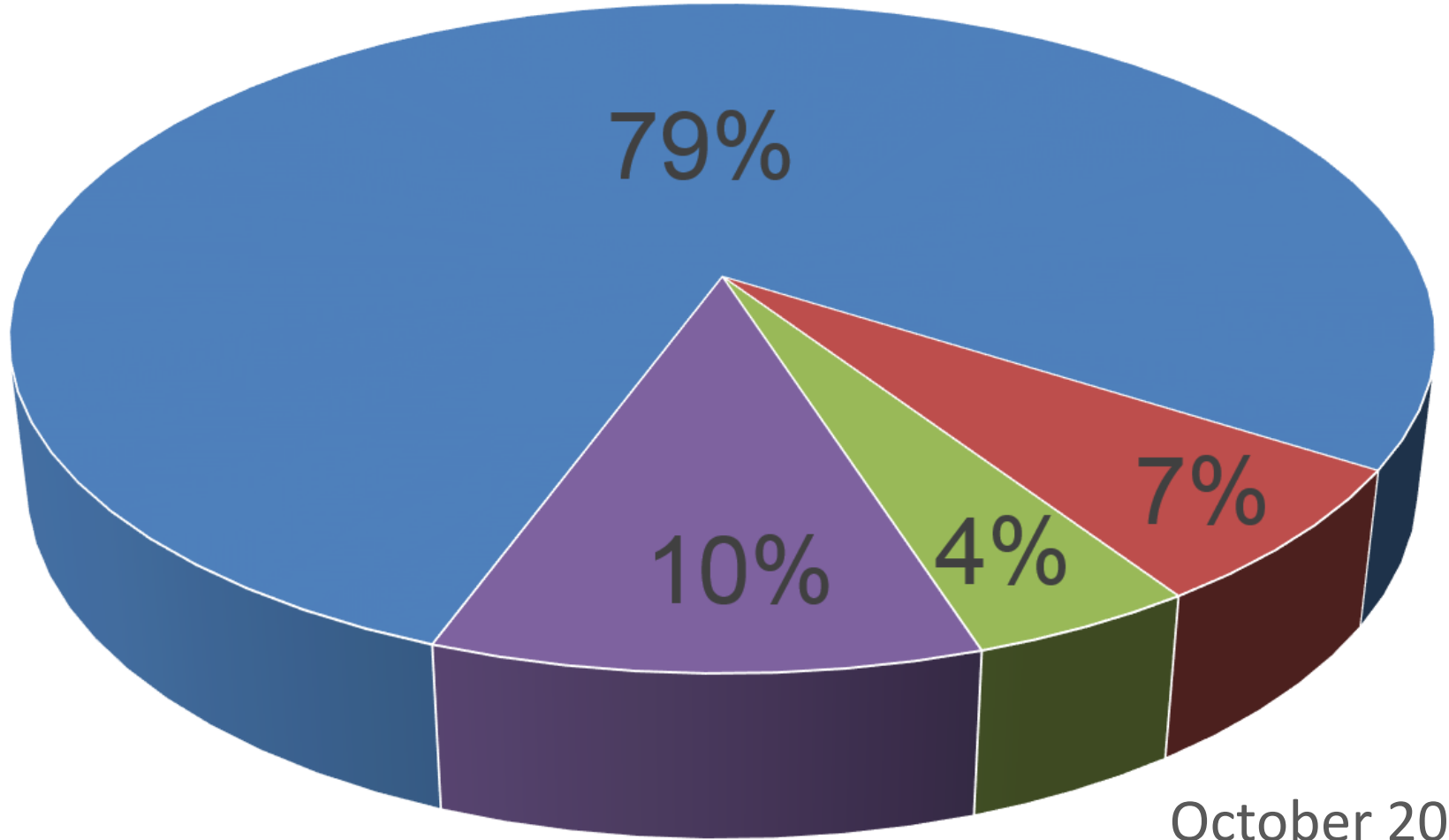
MONTH	ND	Eastern MT*	SD	TOTAL
January	983,886	52,727	3,553	1,040,166
February	1,034,122	53,959	3,718	1,091,799
March	1,025,926	52,901	3,705	1,082,531
April	1,050,890	52,504	3,768	1,107,162
May	1,040,666	52,969	3,389	1,097,024
June	1,032,920	52,906	3,563	1,089,389
July	1,048,556	49,972	3,529	1,102,057
August	1,089,317	49,216	3,565	1,142,098
September	1,107,345	49,670	3,568	1,160,583
October	1,185,499			
November				
December				



Monthly Production Change



Estimated Williston Basin Oil Transportation



■ Pipeline Export

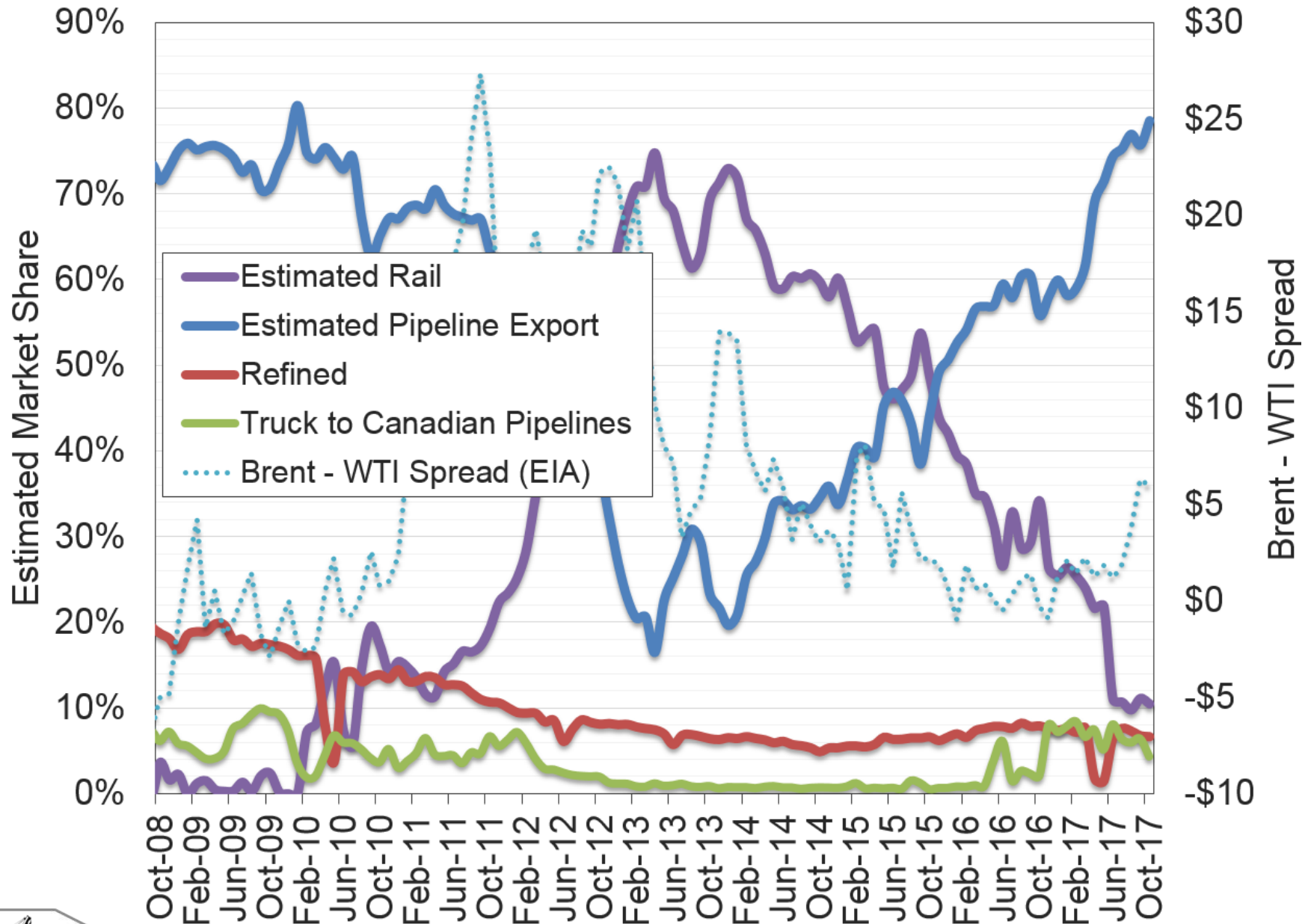
■ Refined

■ Truck to Canadian Pipelines

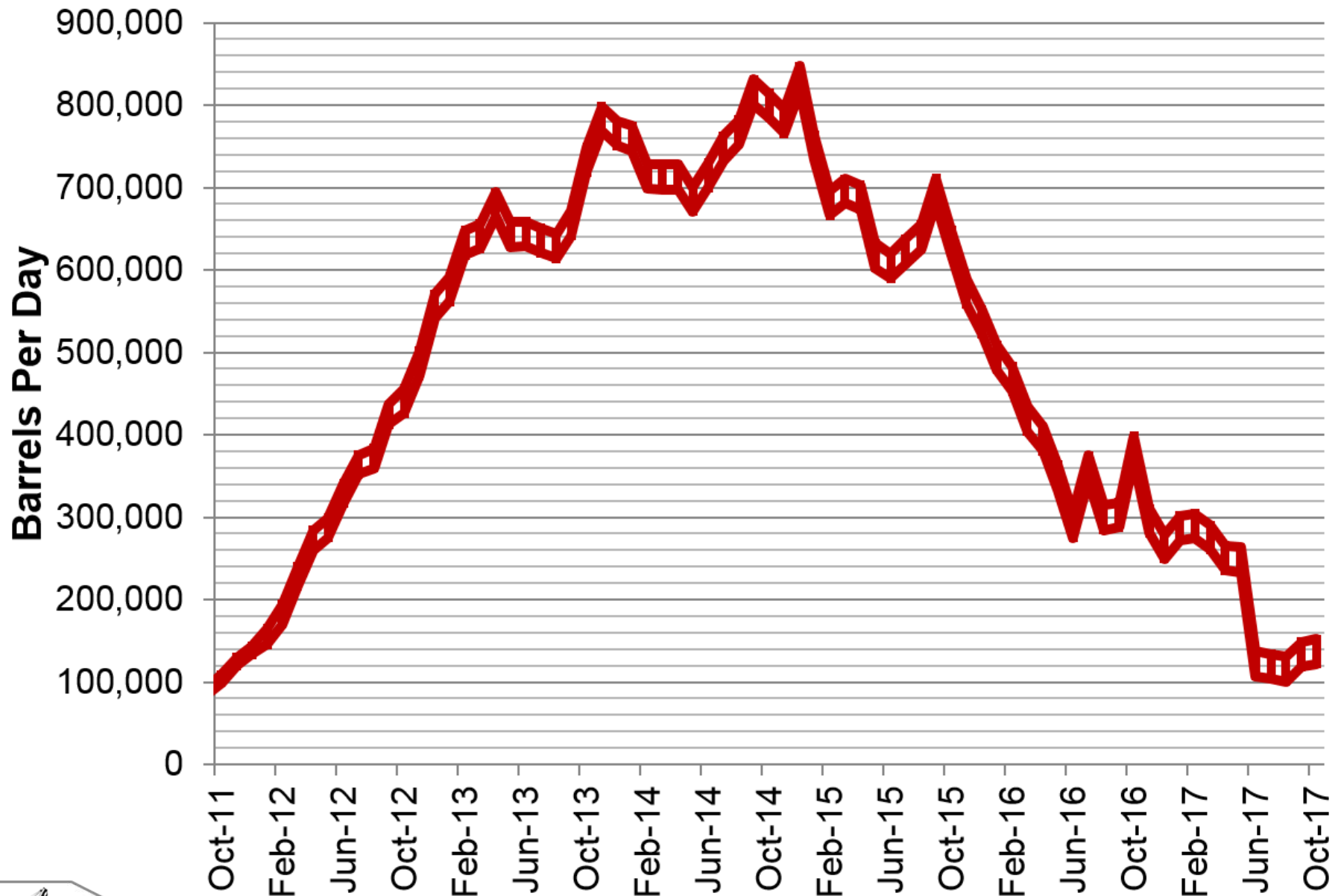
■ Estimated Rail



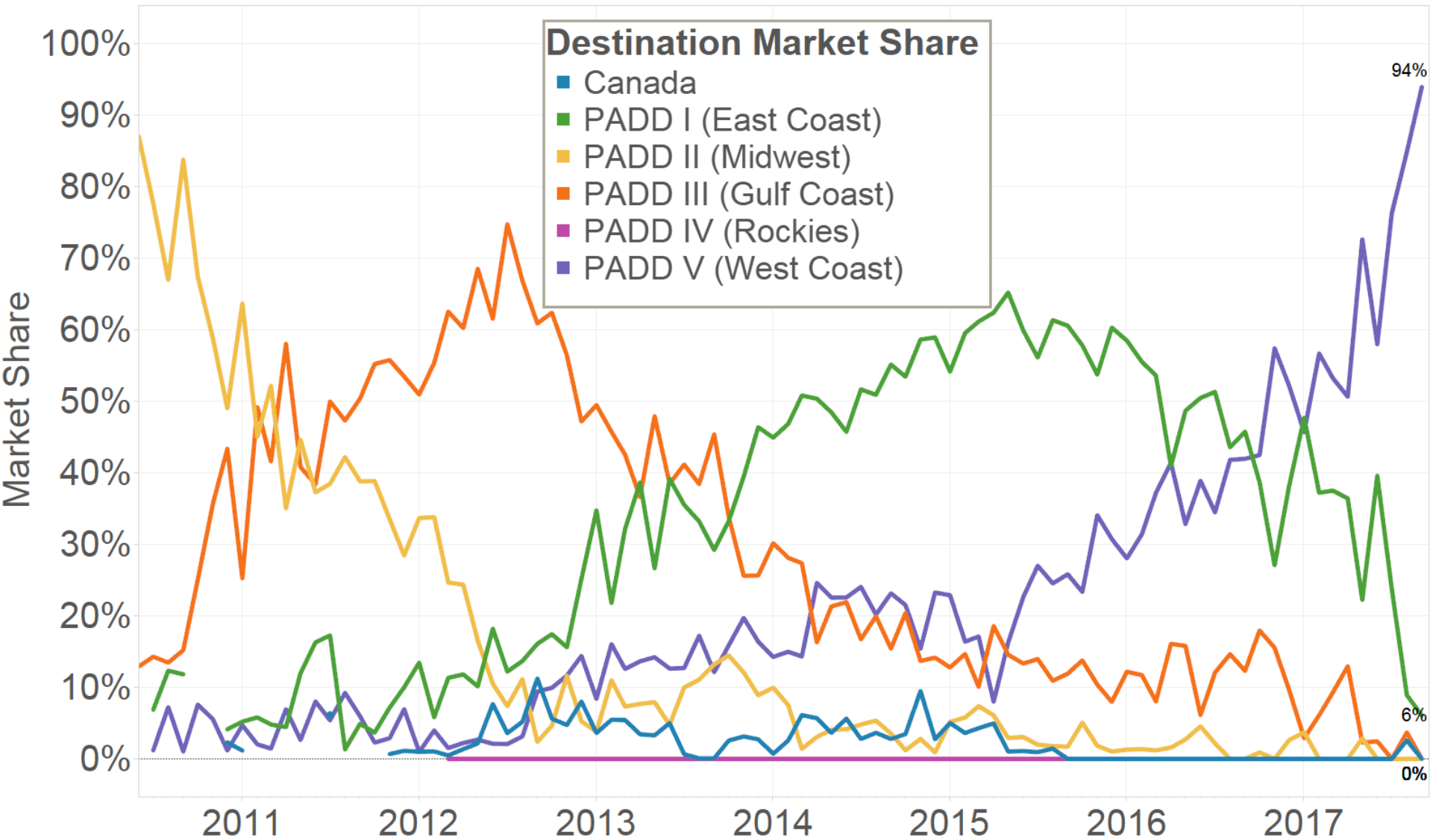
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



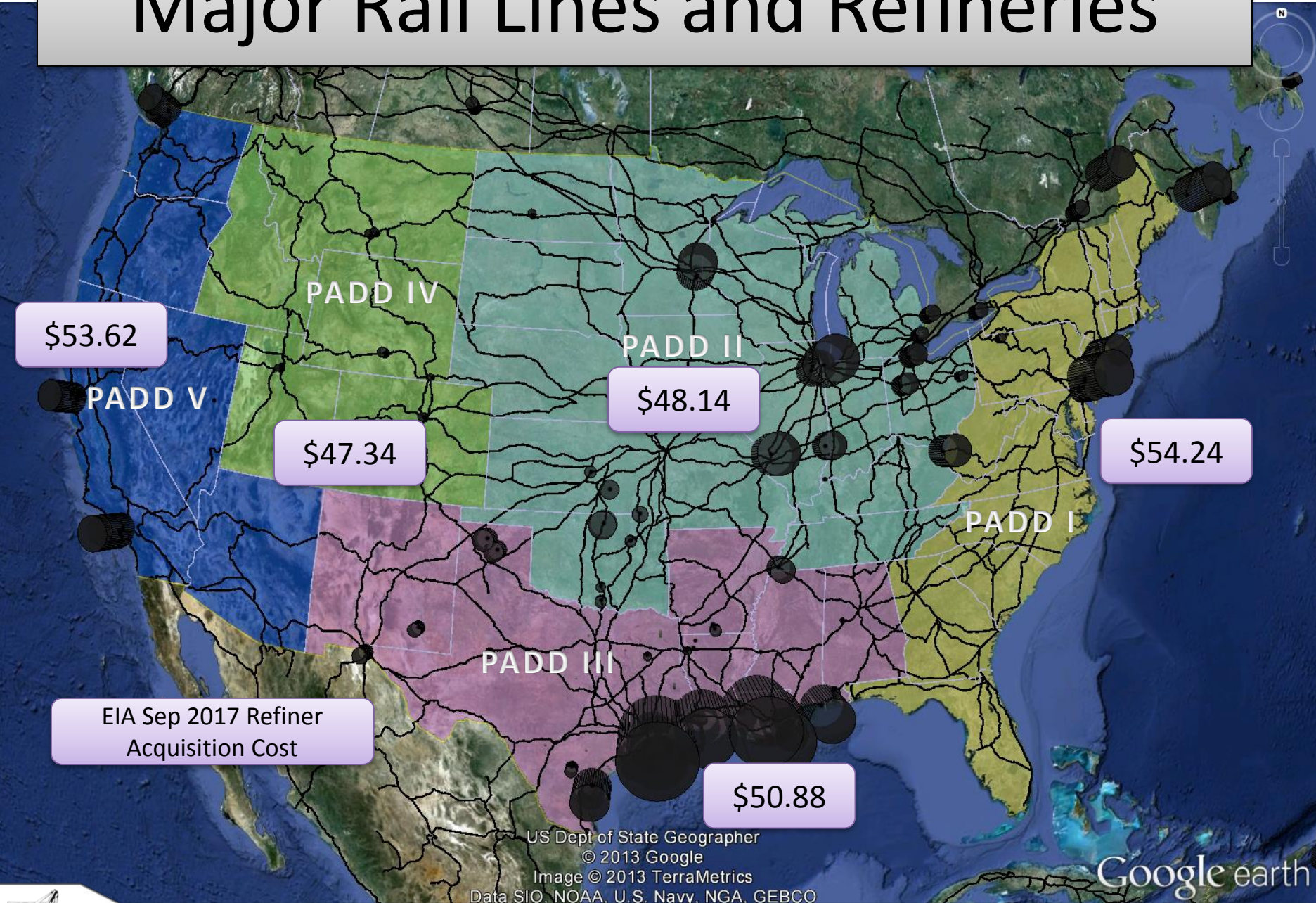
Rail Destinations Market Share (Sep 2017)



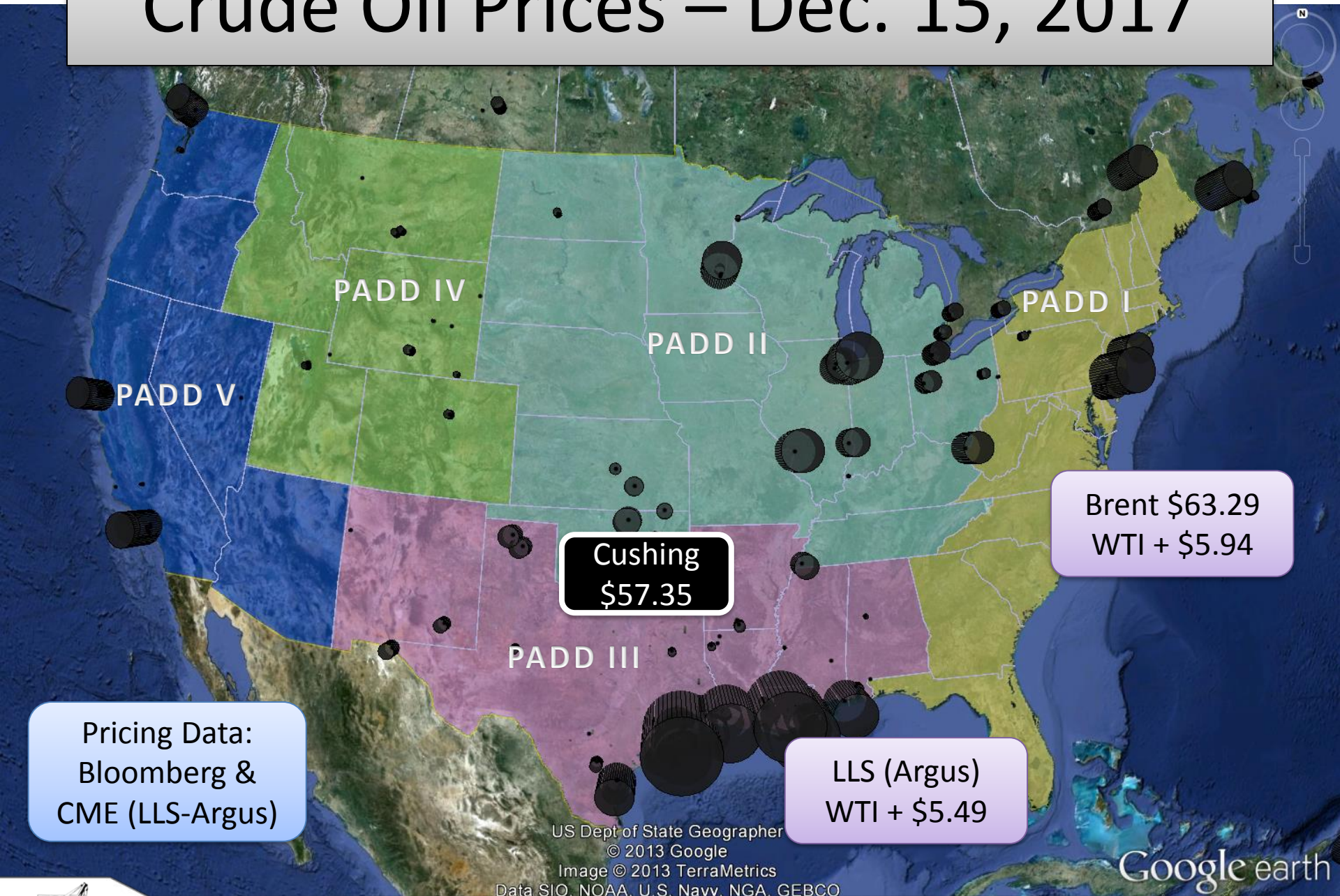
Data for Rail Destination Market Share Provided by the US Energy Information Administration



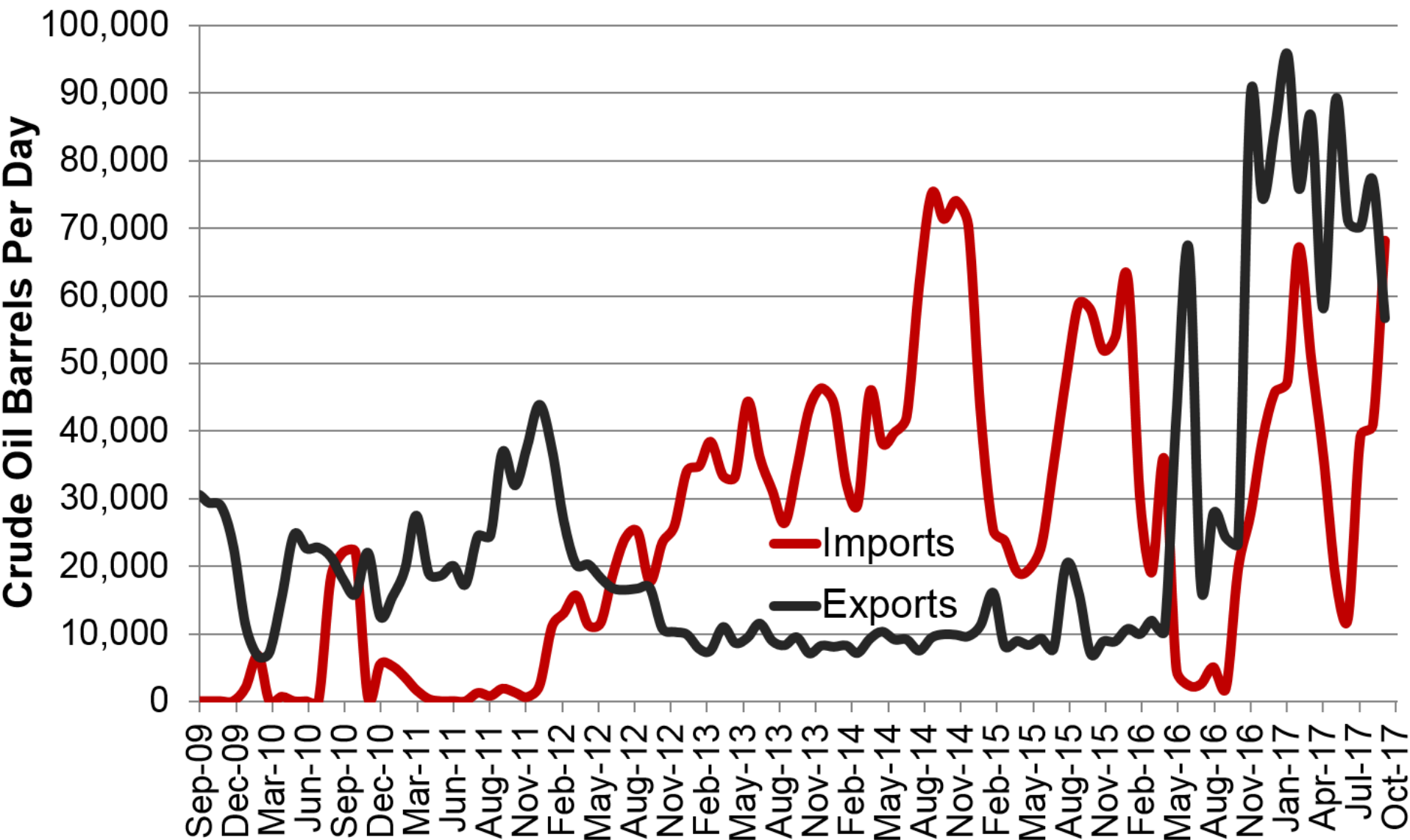
Major Rail Lines and Refineries



Crude Oil Prices – Dec. 15, 2017



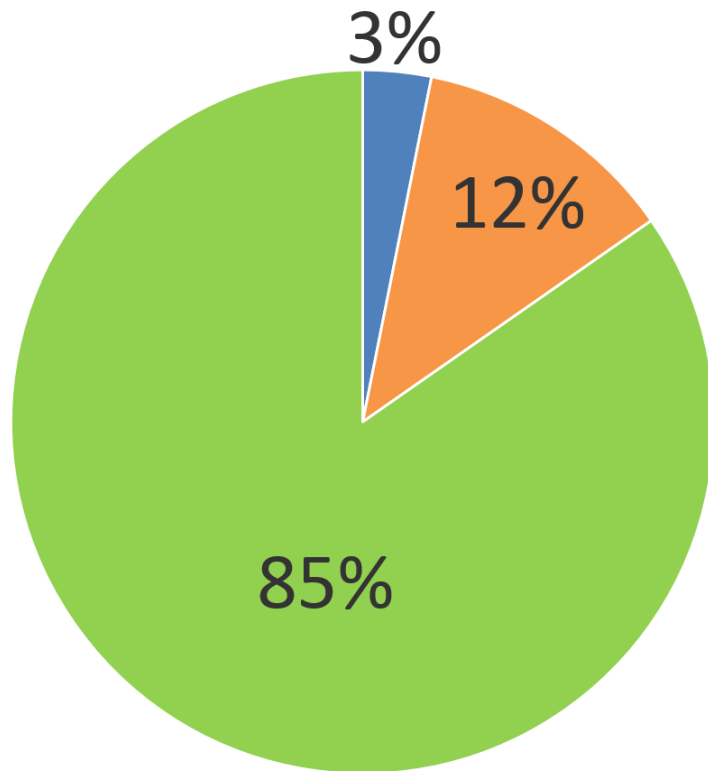
Williston Basin Truck Imports and Exports with Canada



Data for truck imports/exports chart is provided by the US International Trade Commission



Solving the Flaring Challenge



Statewide

GREEN – % of gas captured and sold
Blue – % flared from zero sales wells
Orange – % flared from wells with at least one mcf sold.

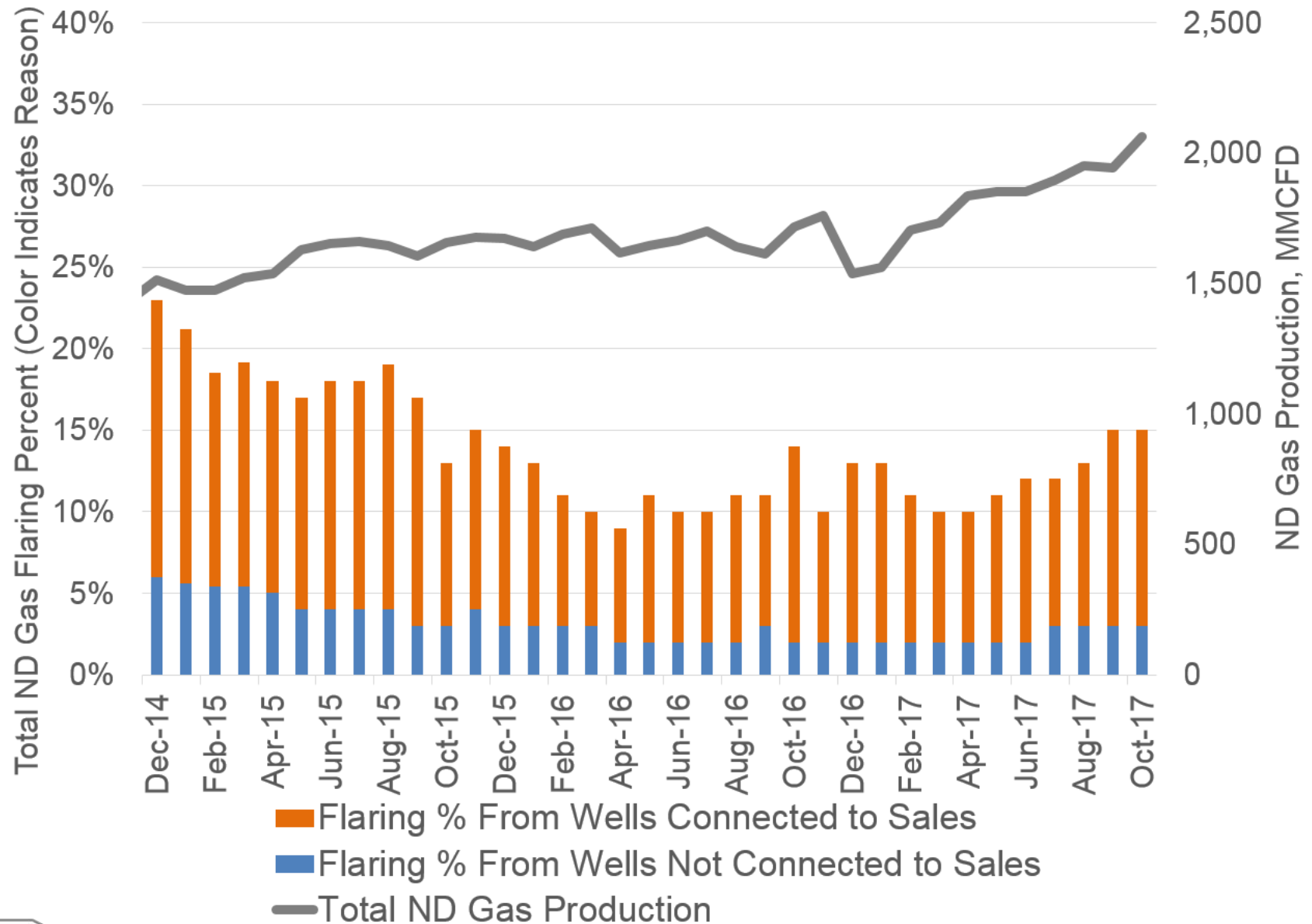
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

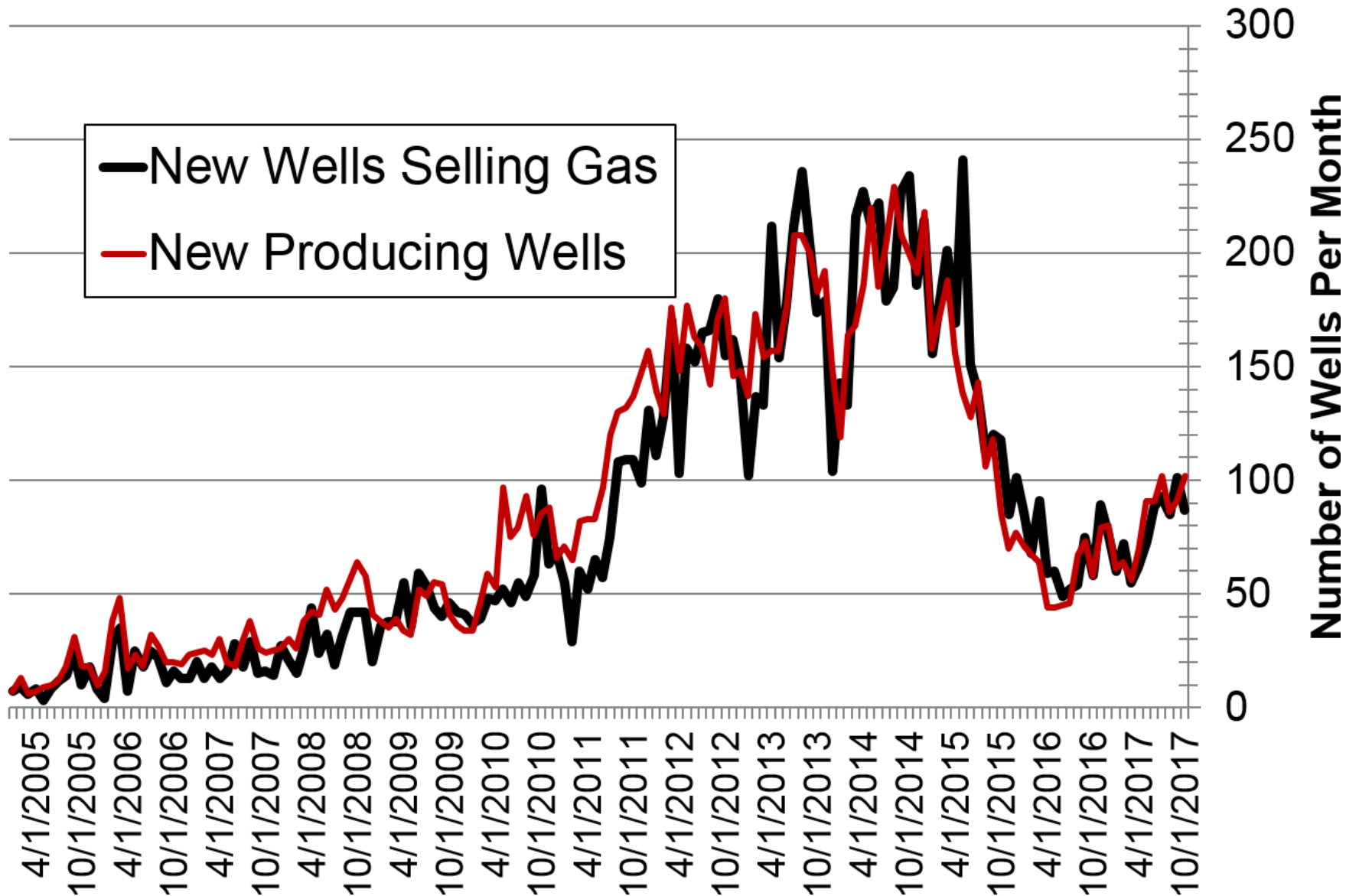
Oct 2017 Data – Non-Confidential Wells



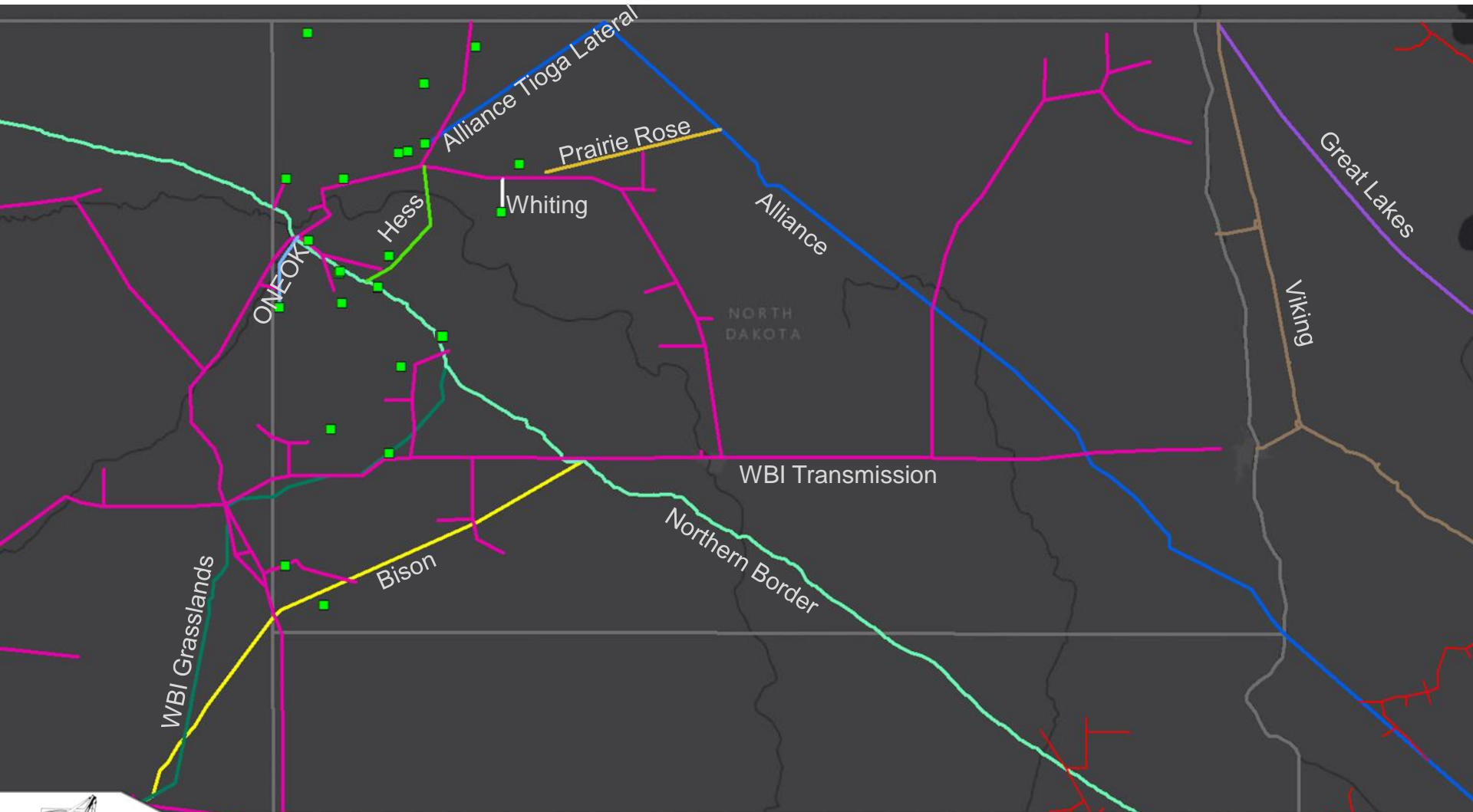
Solving the Flaring Challenge



Solving the Flaring Challenge

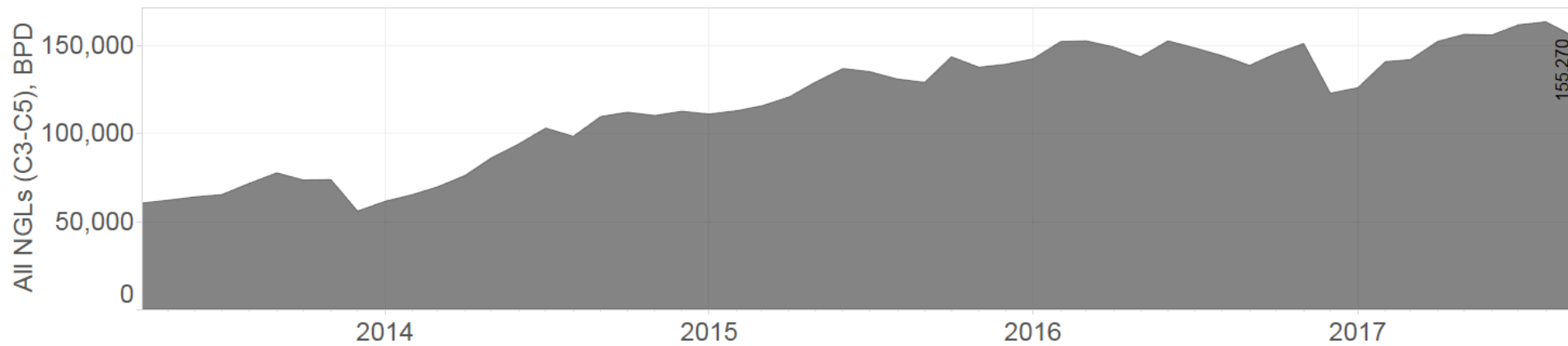


Major Gas Pipeline and Processing Infrastructure

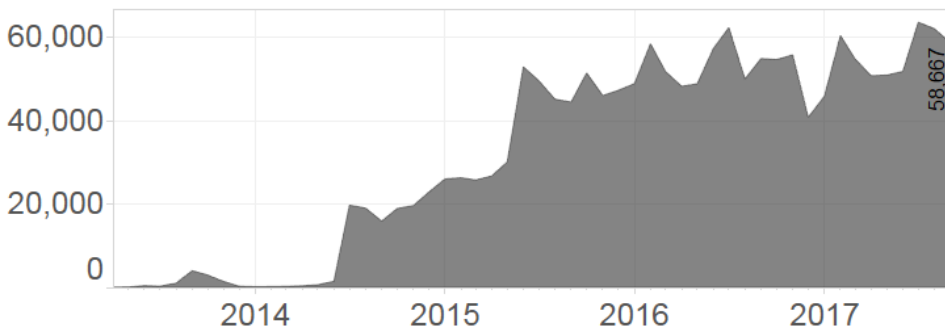


Plant Natural Gas Liquids - (Sep 2017)

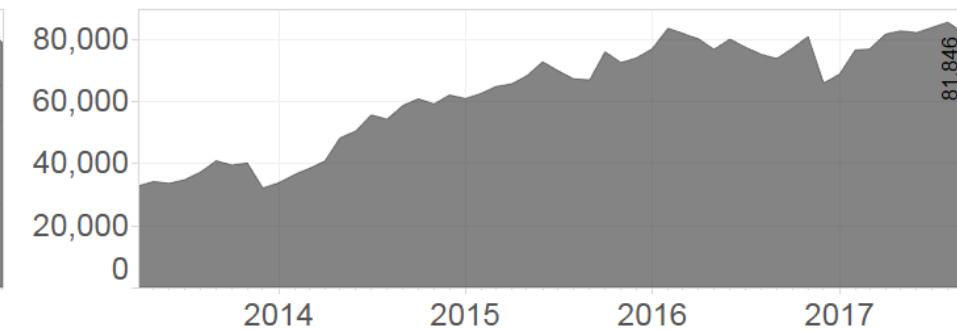
All NGLs, BPD



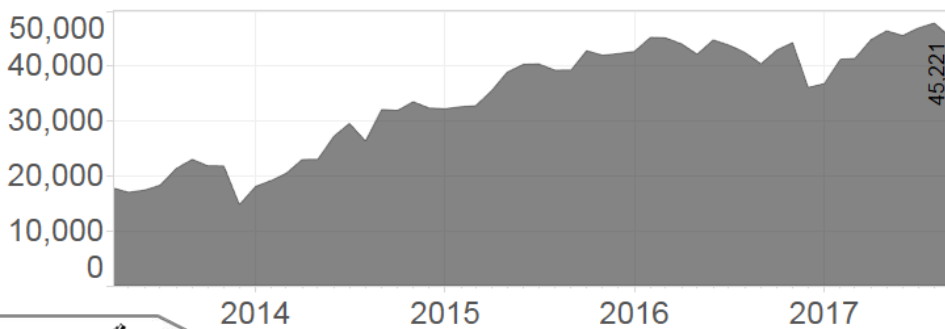
Ethane, BPD



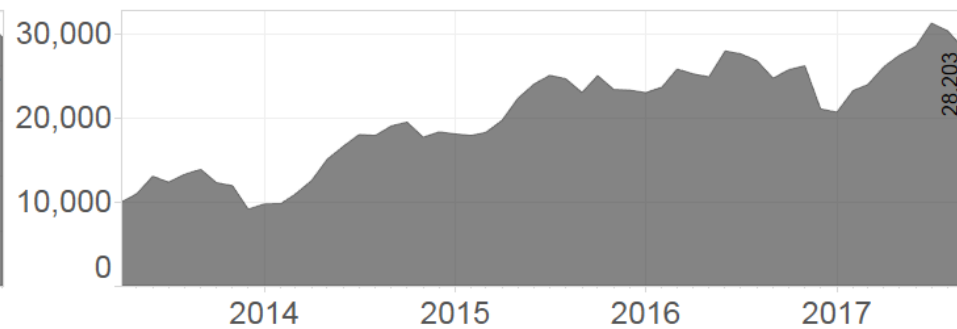
Propane, BPD



Butane, BPD



Natural Gasoline, BPD



Contact Information

Justin J. Kringstad, Director
North Dakota Pipeline Authority

600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Phone: (701)220-6227

Fax: (701)328-2820

E-mail: jjkringstad@ndpipelines.com

Websites:

www.pipeline.nd.gov

www.northdakotapipelines.com



**Know what's below.
Call before you dig.**

