



November 2016 Monthly Update

North Dakota Pipeline Authority

Justin J. Kringstad

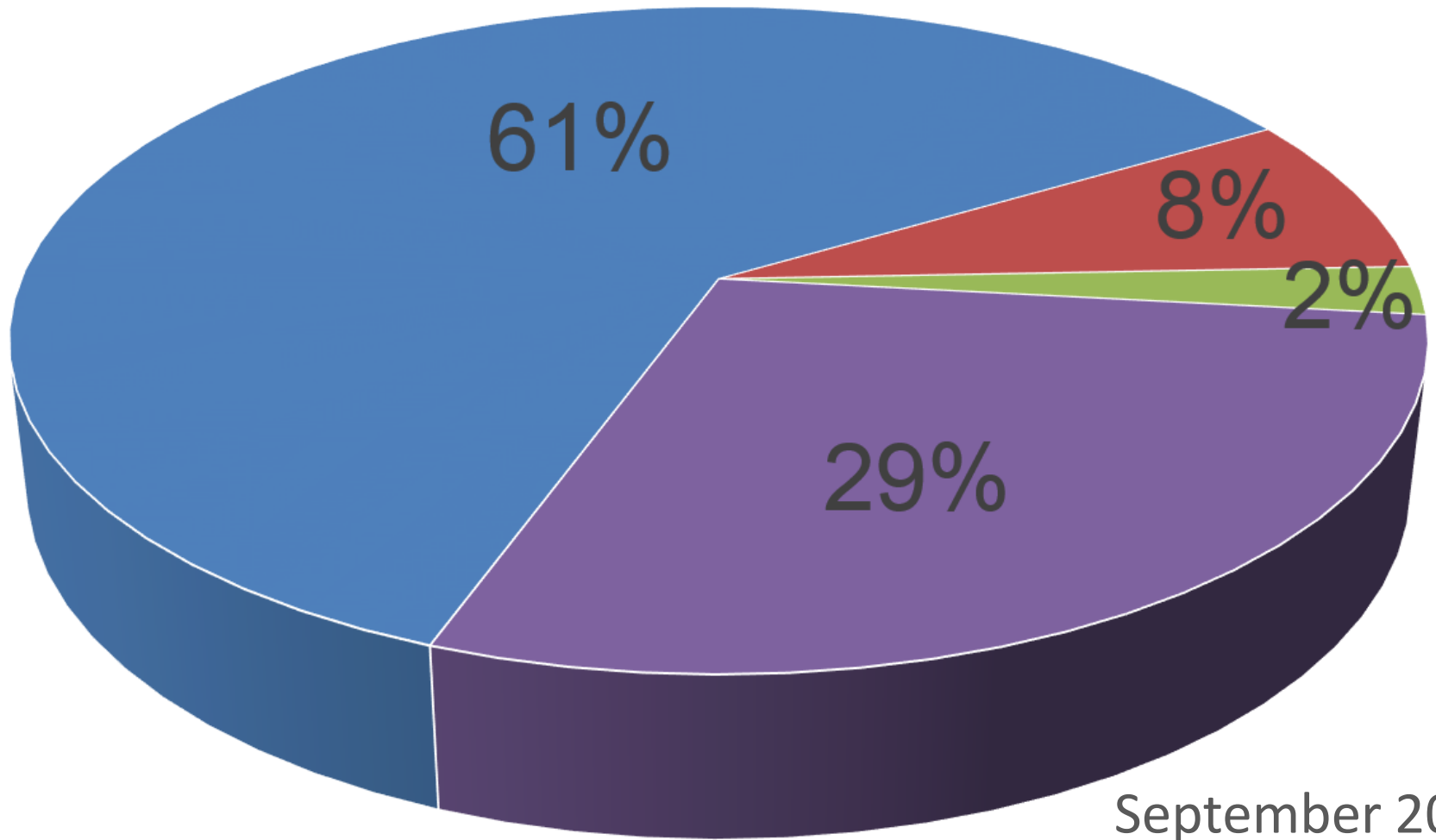
November 16, 2016

US Williston Basin Oil Production - 2016

MONTH	ND	Eastern MT*	SD	TOTAL
January	1,121,663	63,364	4,148	1,189,175
February	1,119,565	62,710	4,067	1,186,342
March	1,111,705	61,481	3,948	1,177,134
April	1,042,008	59,966	3,846	1,105,820
May	1,046,975	59,200	3,971	1,110,146
June	1,027,189	58,304	3,859	1,089,352
July	1,029,734	56,107	3,803	1,089,643
August	982,011	55,334	3,818	1,041,163
September	971,658		3,764	
October				
November				
December				



Estimated Williston Basin Oil Transportation



September 2016

■ Pipeline Export

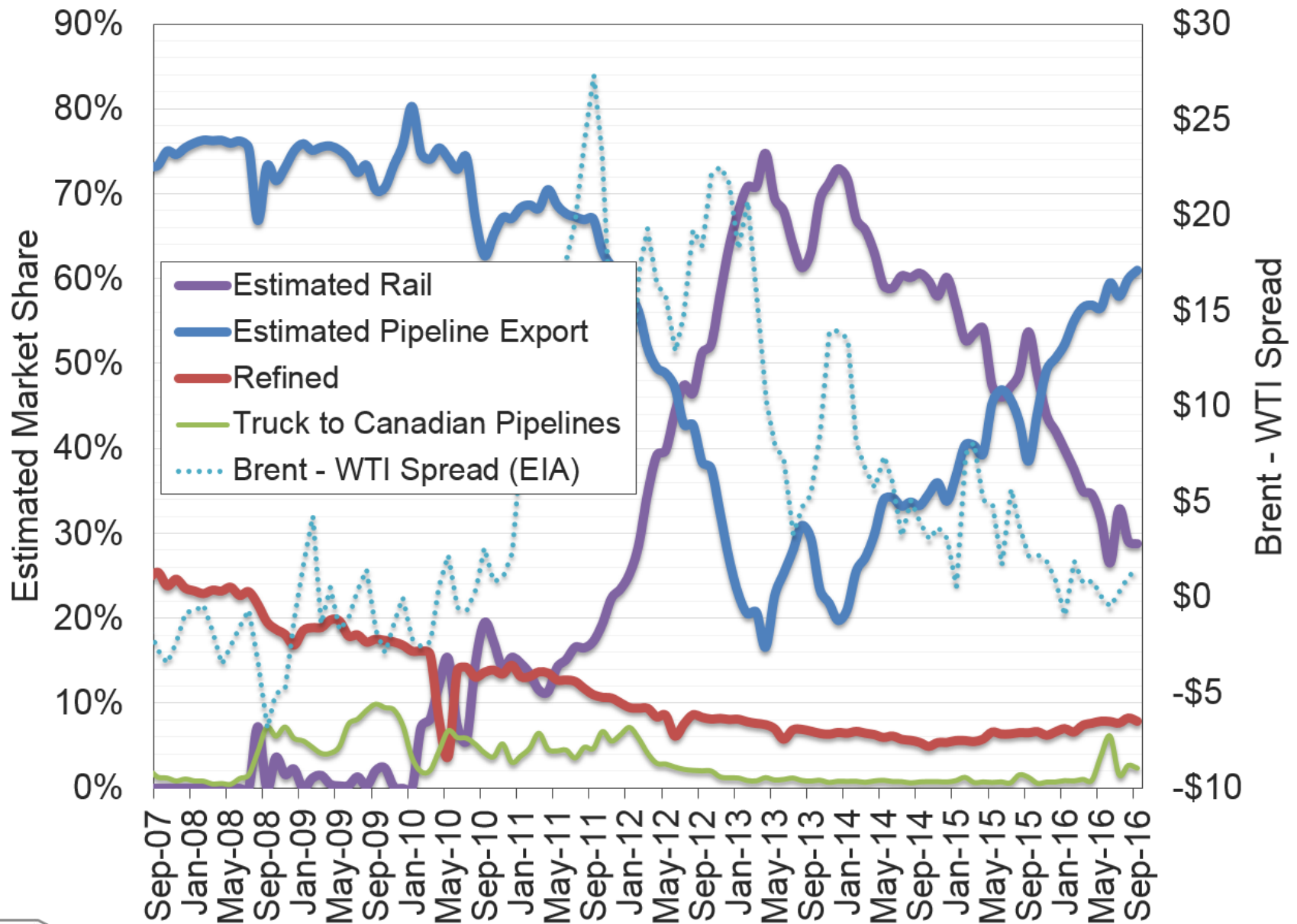
■ Refined

■ Truck to Canadian Pipelines

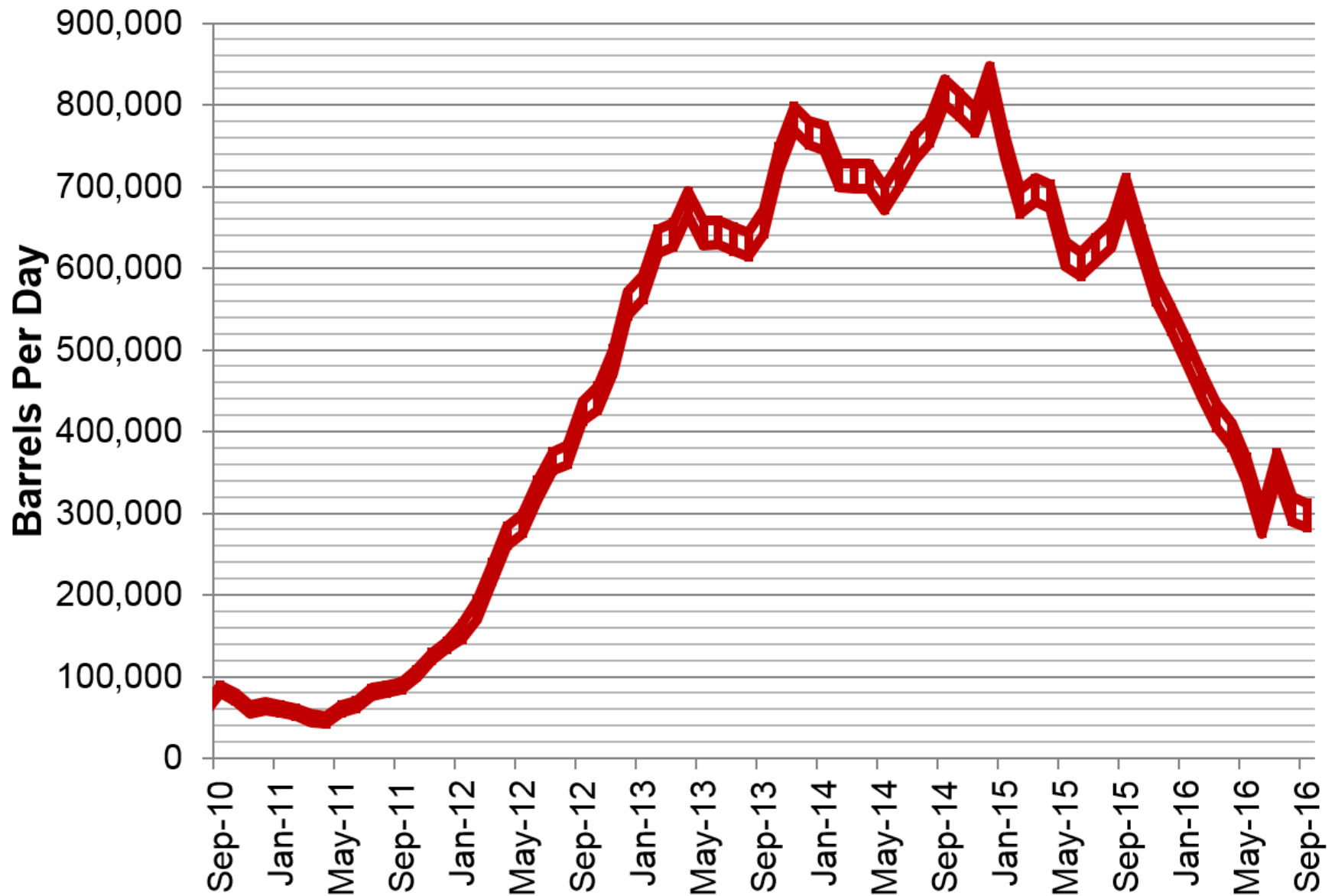
■ Estimated Rail



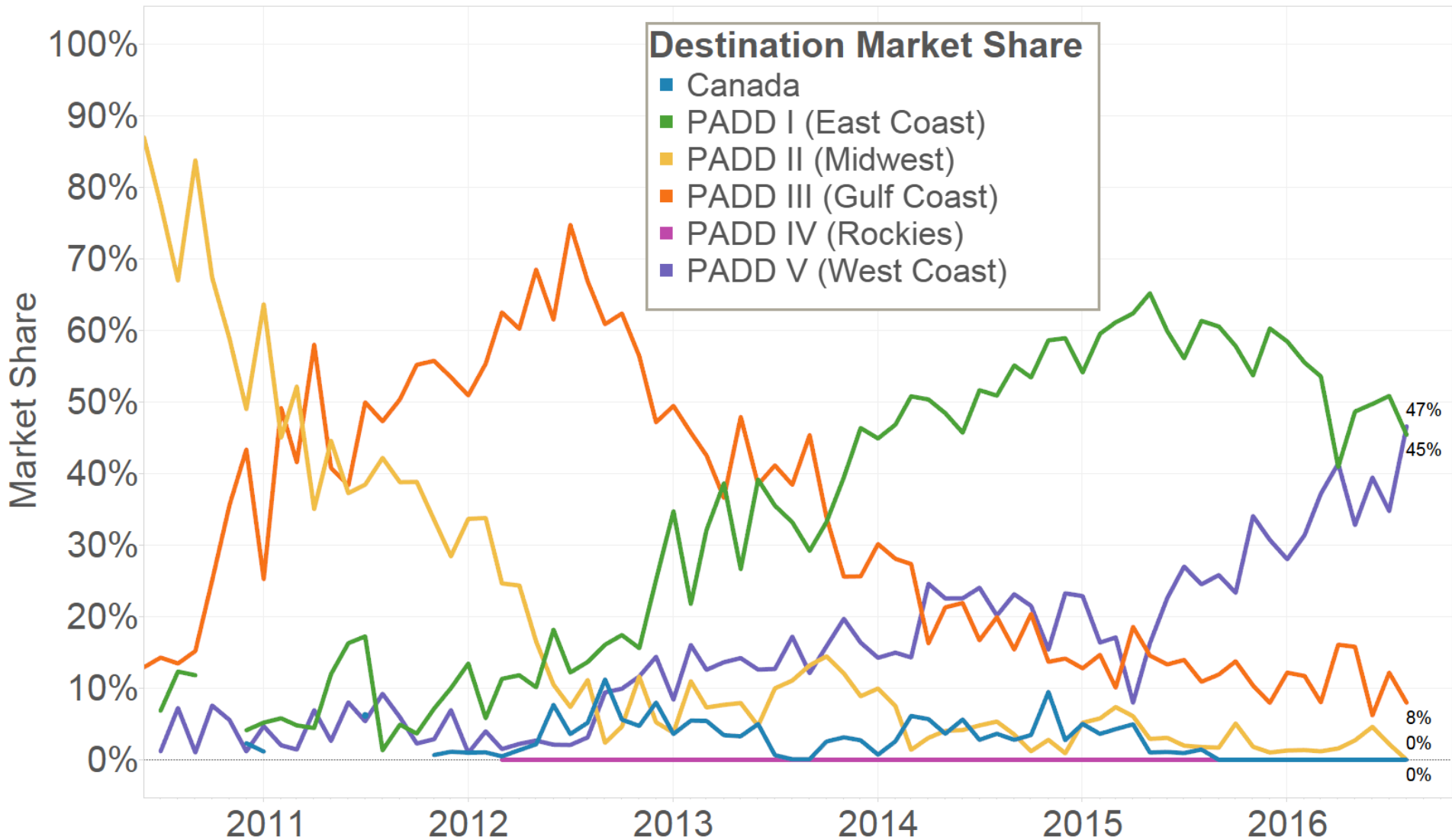
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



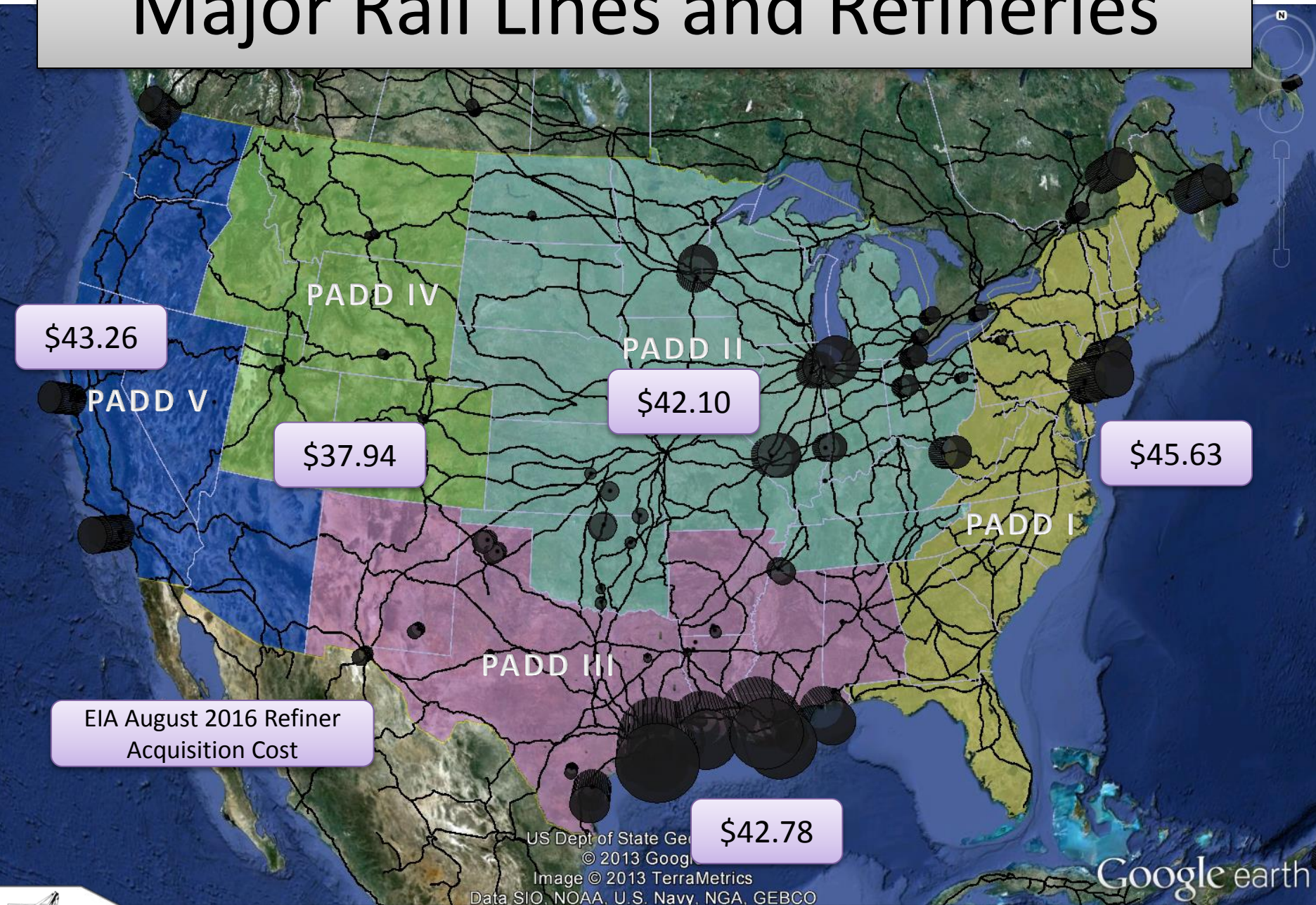
Rail Destinations Market Share (Aug. 2016)



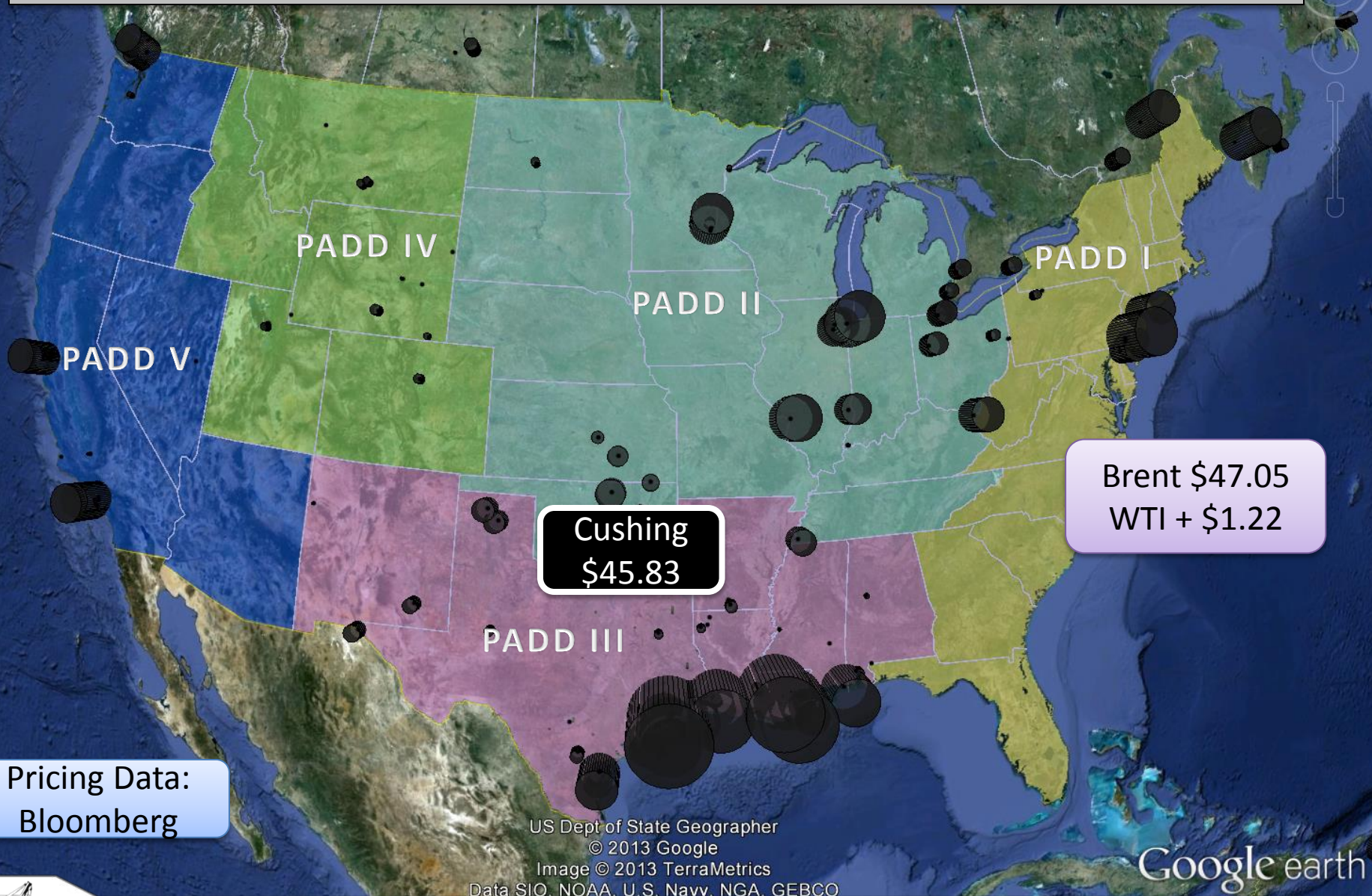
Data for Rail Destination Market Share Provided by the US Energy Information Administration



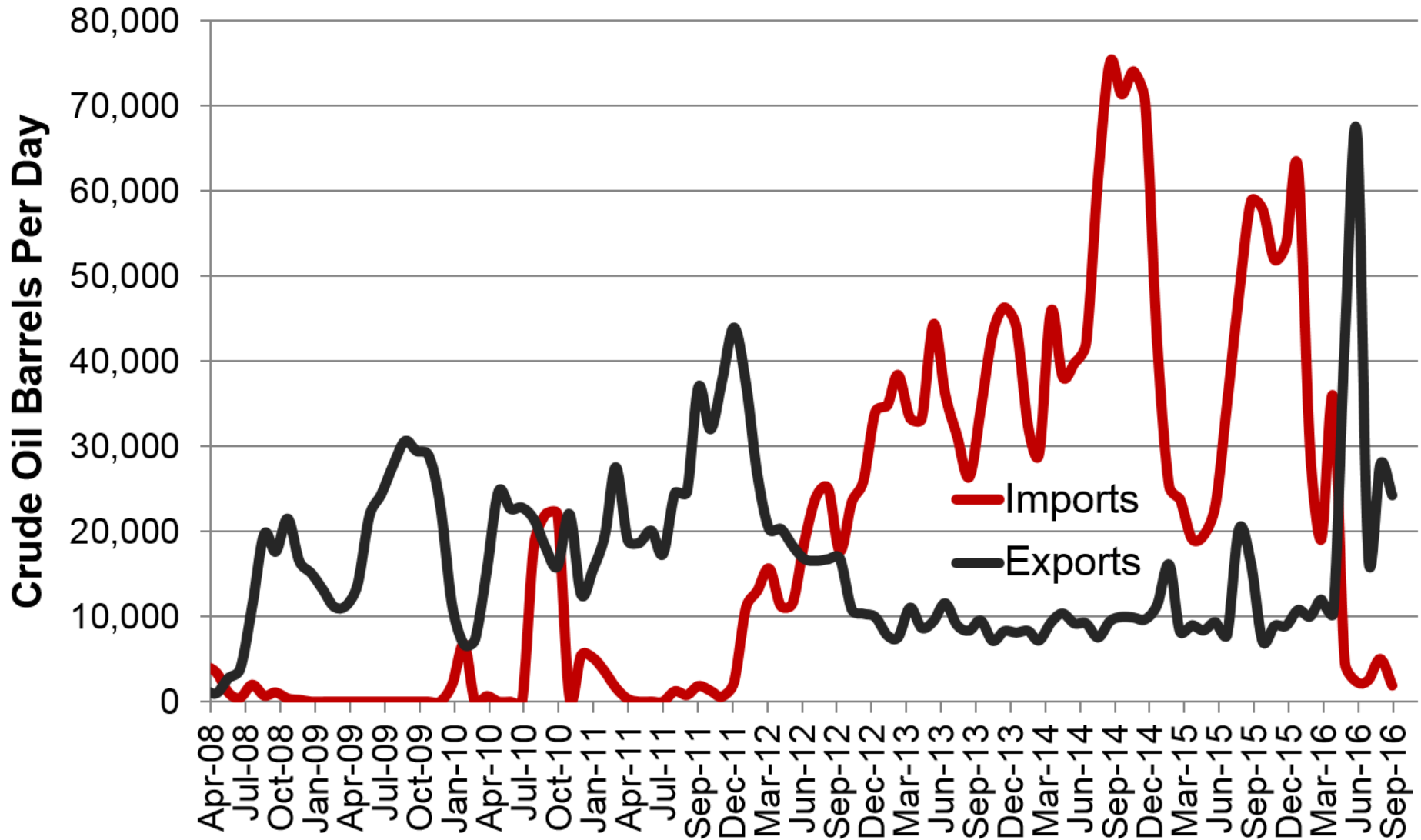
Major Rail Lines and Refineries



Crude Oil Prices – Nov 15, 2016



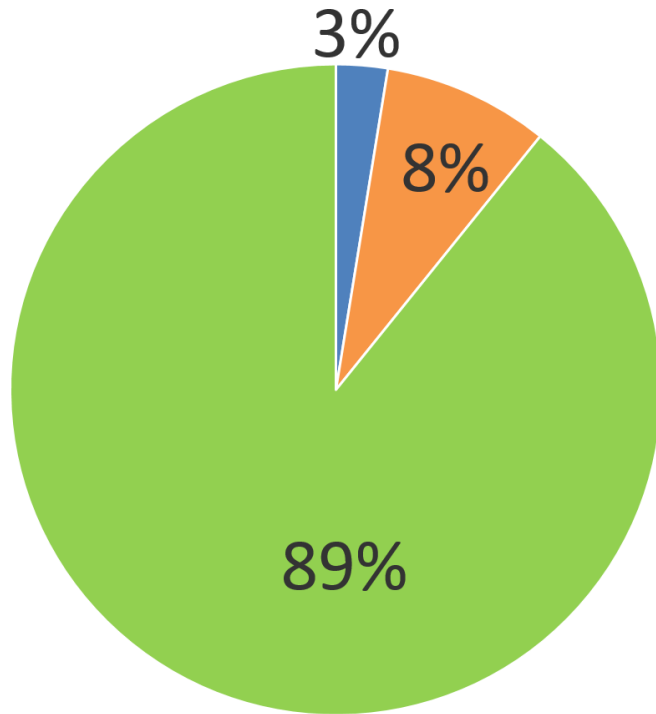
Williston Basin Truck Imports and Exports with Canada



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.

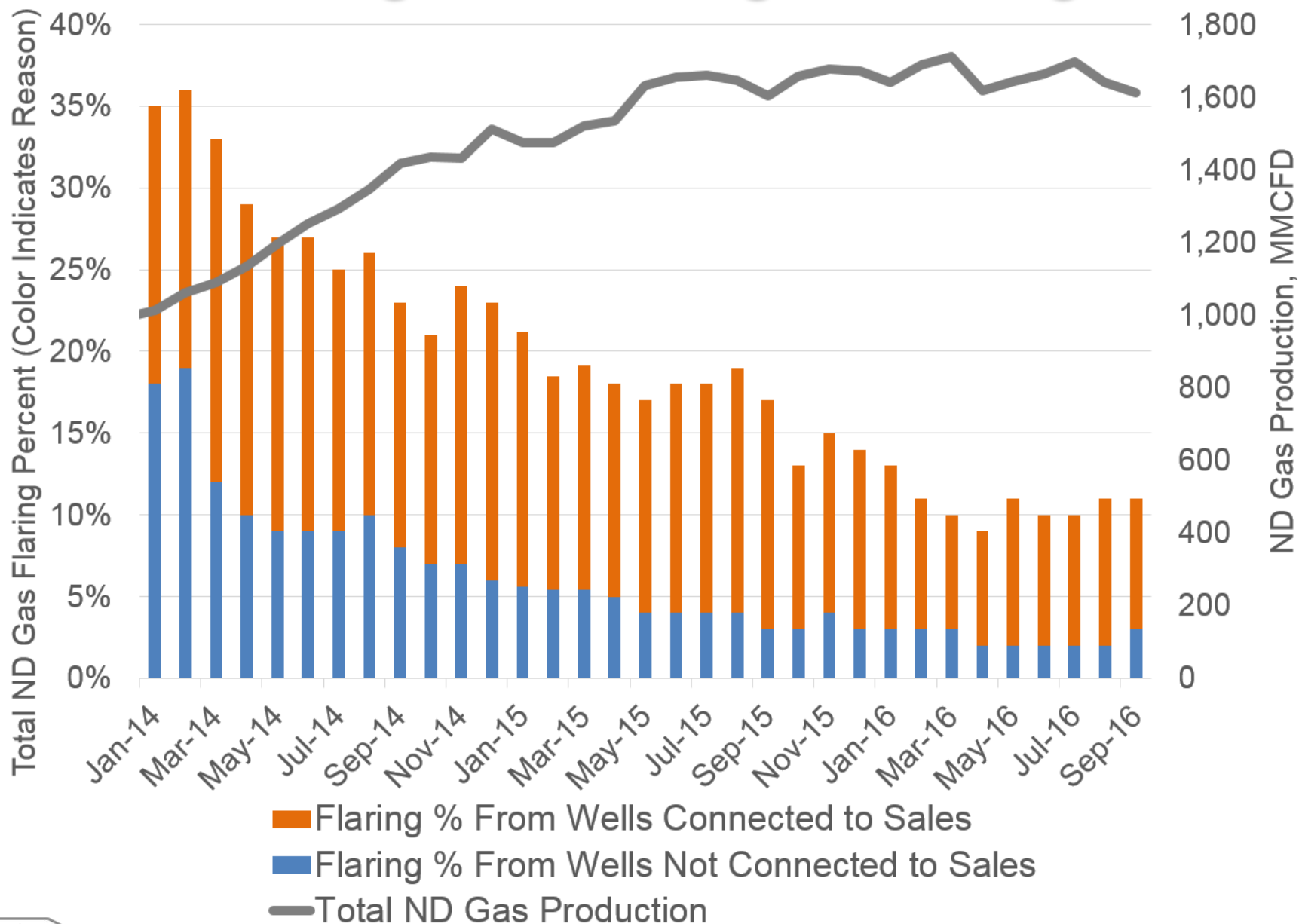
Simple Terms

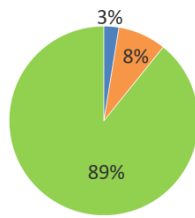
Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

Sep 2016 Data – Non-Confidential Wells

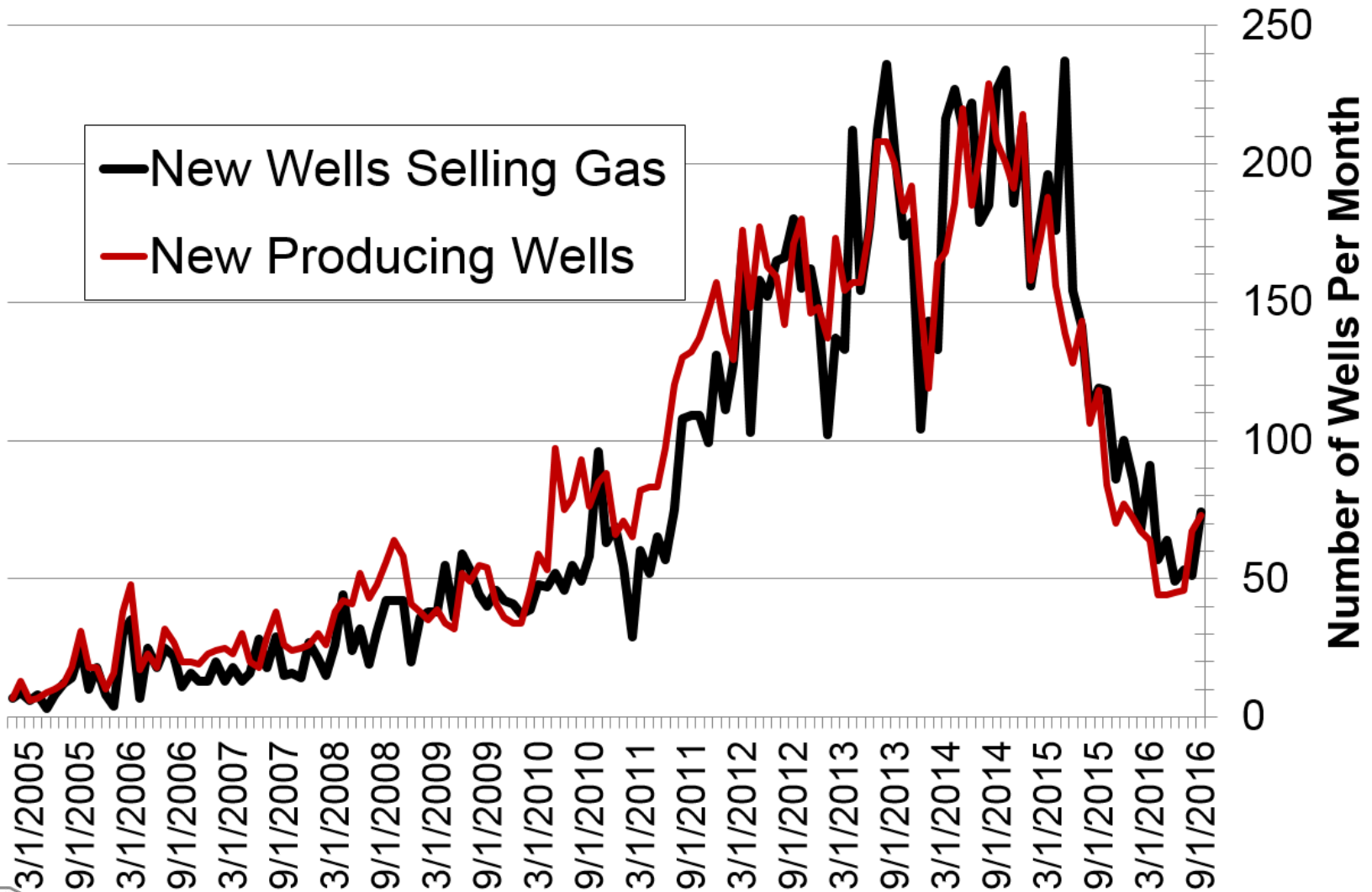


Solving the Flaring Challenge

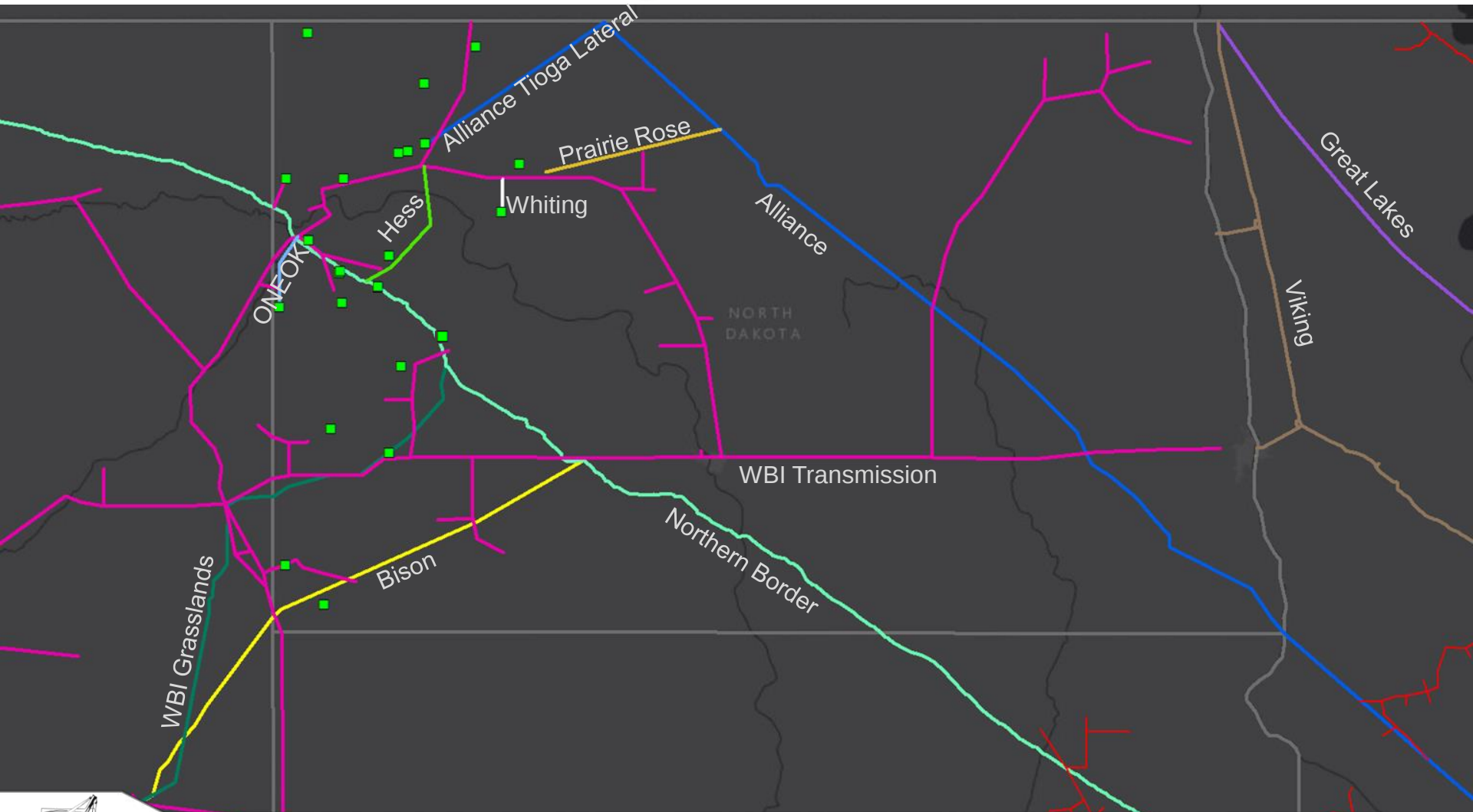




Capturing the 3% Faster Well Connections

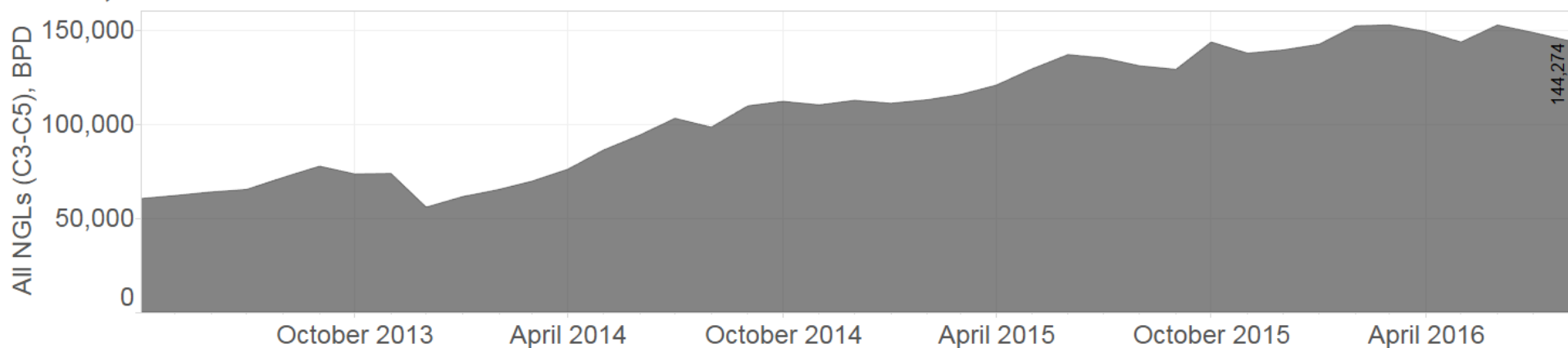


Major Gas Pipeline and Processing Infrastructure

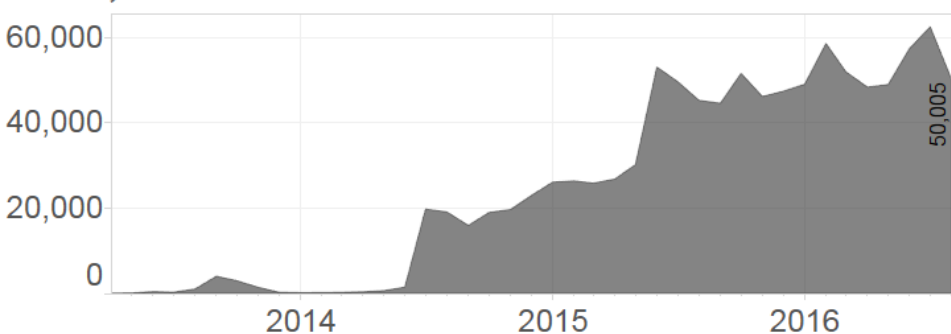


Plant Natural Gas Liquids - (Aug. 2016)

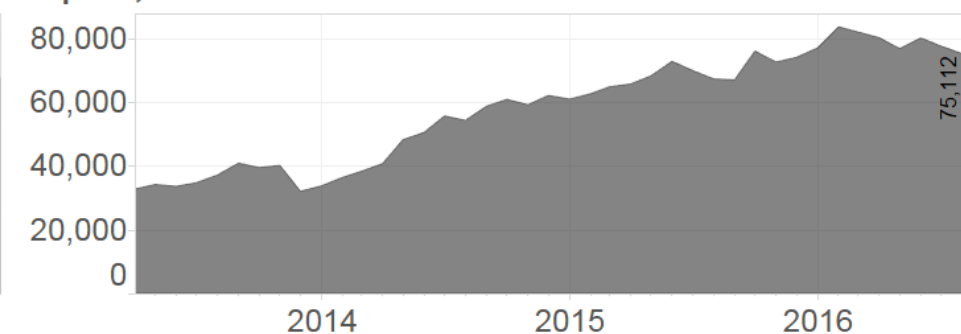
All NGLs, BPD



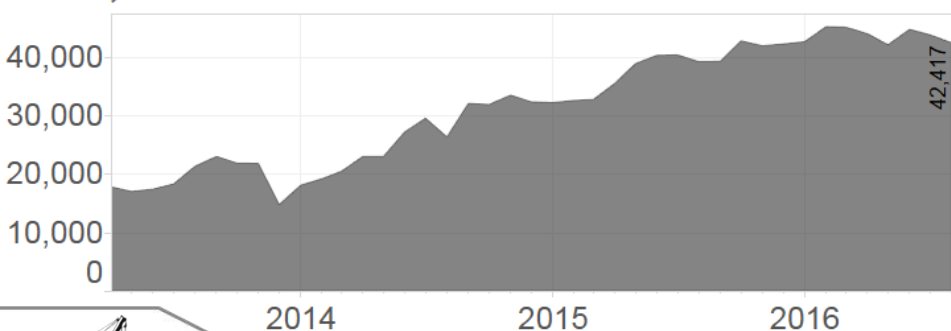
Ethane, BPD



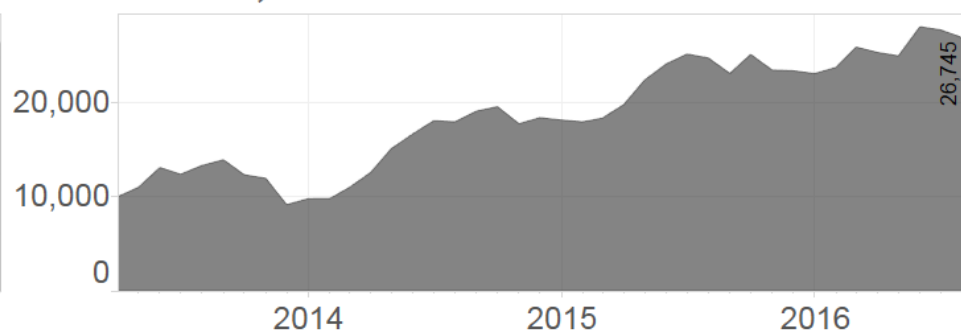
Propane, BPD



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



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