



December 2016 Monthly Update

North Dakota Pipeline Authority

Justin J. Kringstad

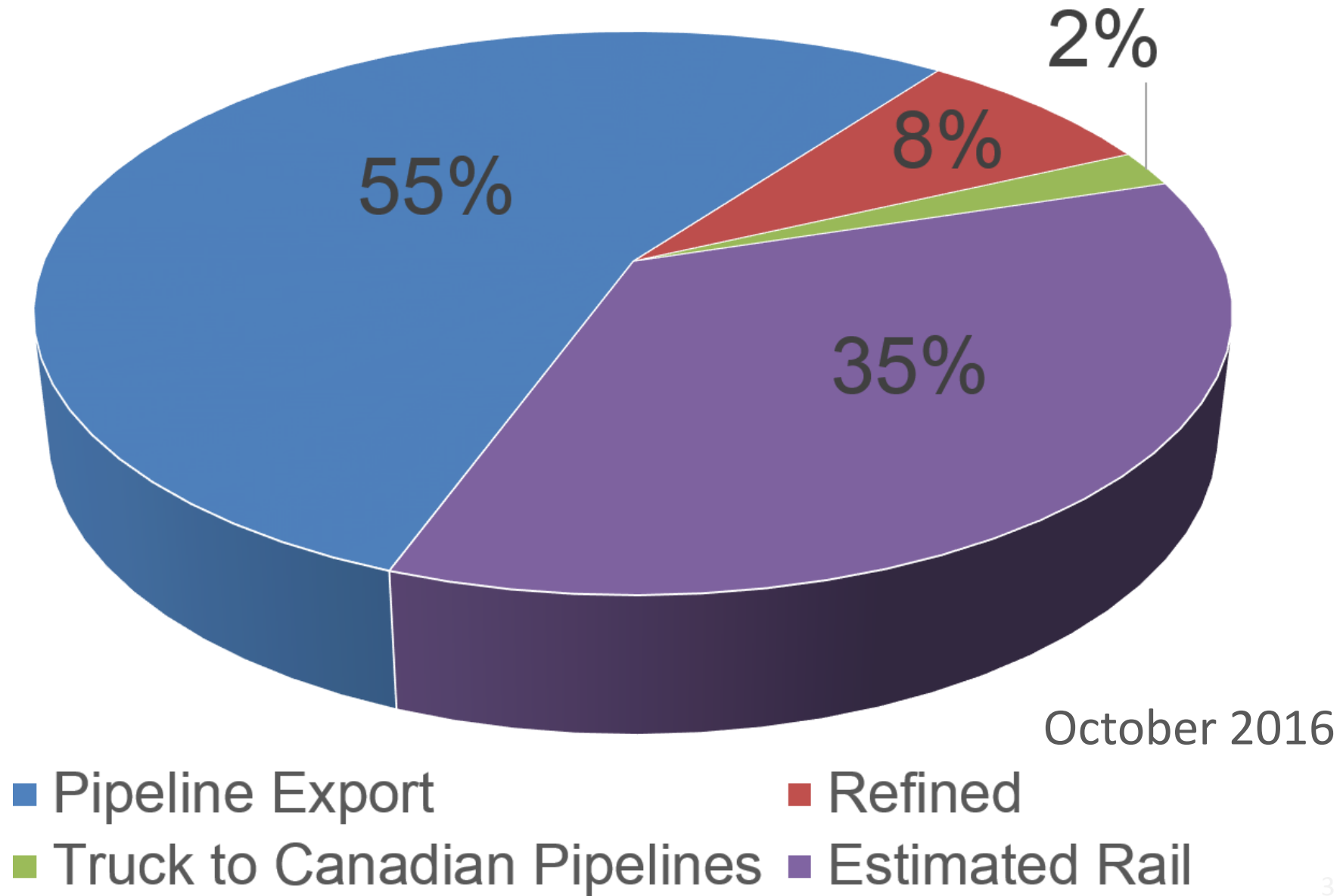
December 13, 2016

US Williston Basin Oil Production - 2016

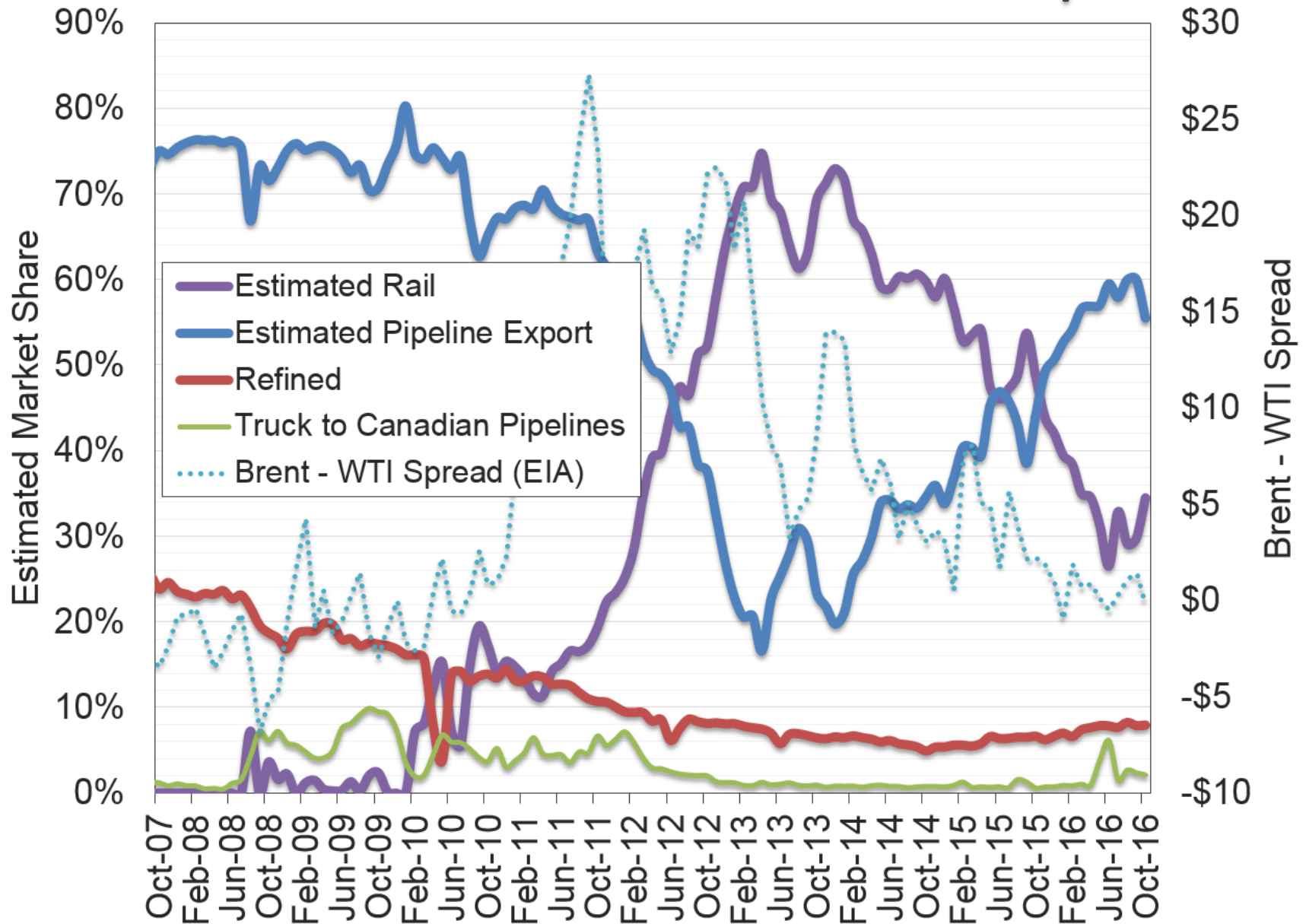
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,121,621	63,364	4,148	1,189,133
February	1,119,576	62,710	4,067	1,186,353
March	1,111,721	61,481	3,948	1,177,150
April	1,042,012	59,966	3,846	1,105,824
May	1,046,977	59,209	3,971	1,110,157
June	1,027,231	58,324	3,859	1,089,414
July	1,029,707	56,411	3,803	1,089,921
August	982,011	55,449	3,818	1,041,278
September	971,760	54,897	3,764	1,030,421
October	1,043,207			
November				
December				



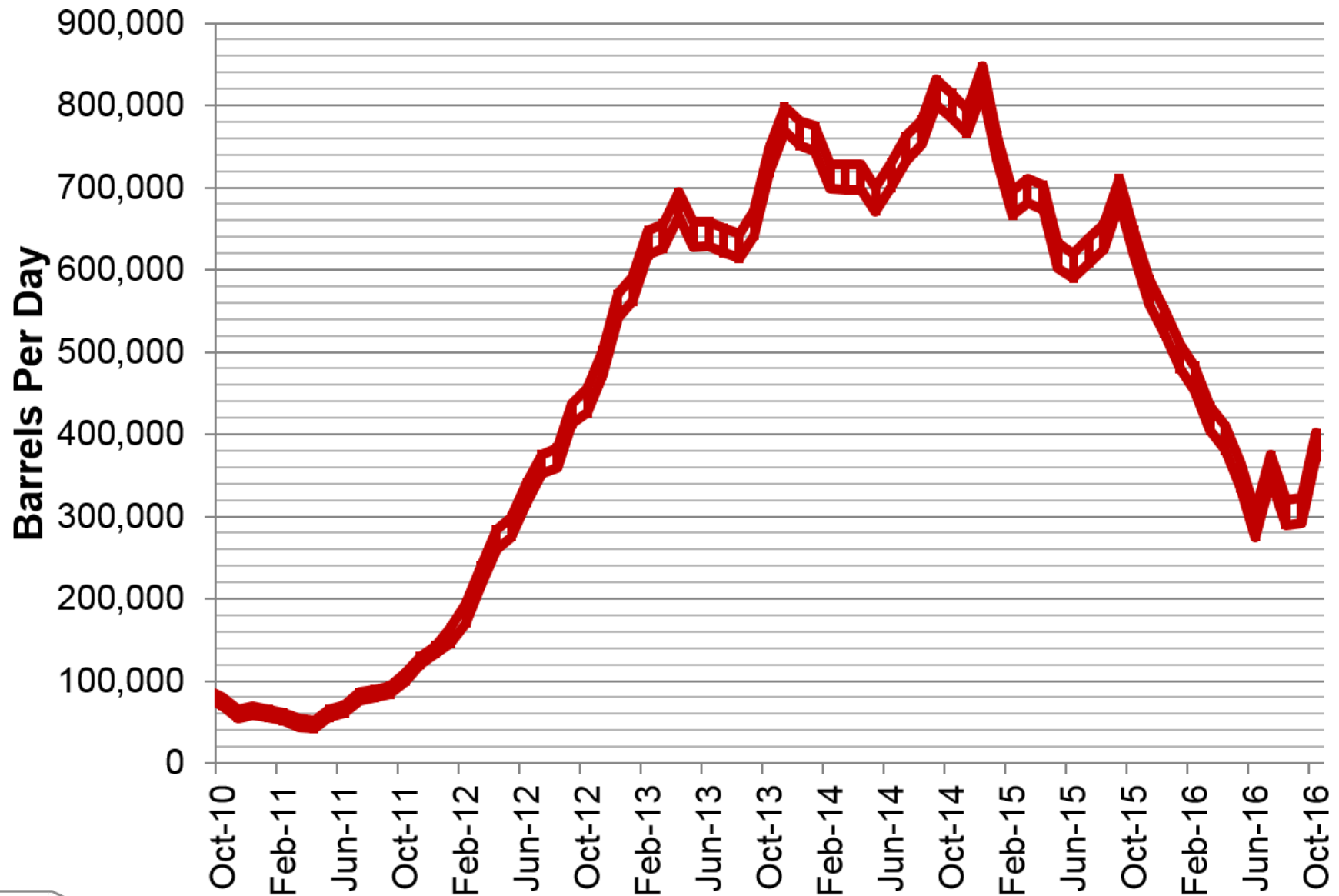
Estimated Williston Basin Oil Transportation



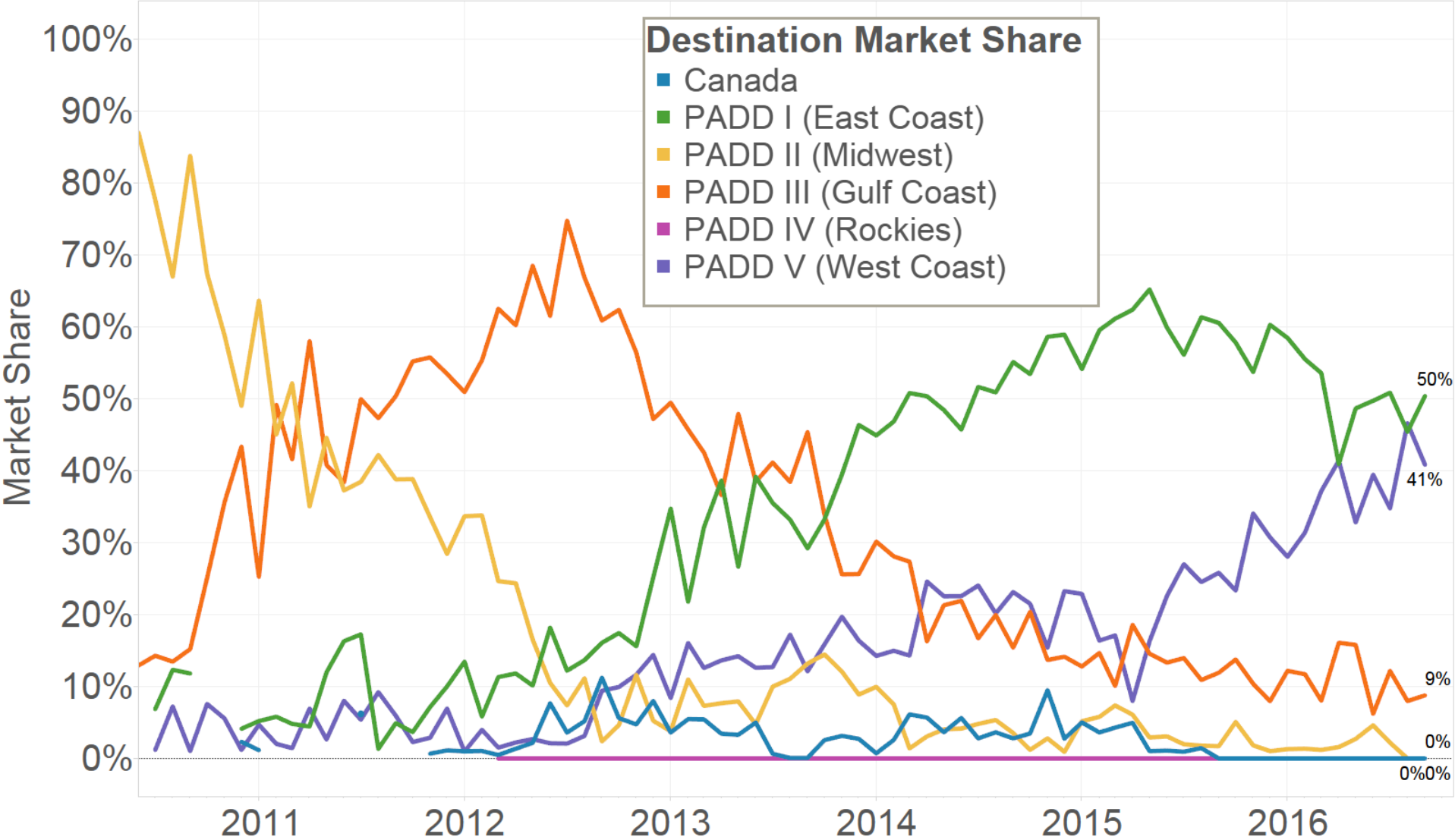
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



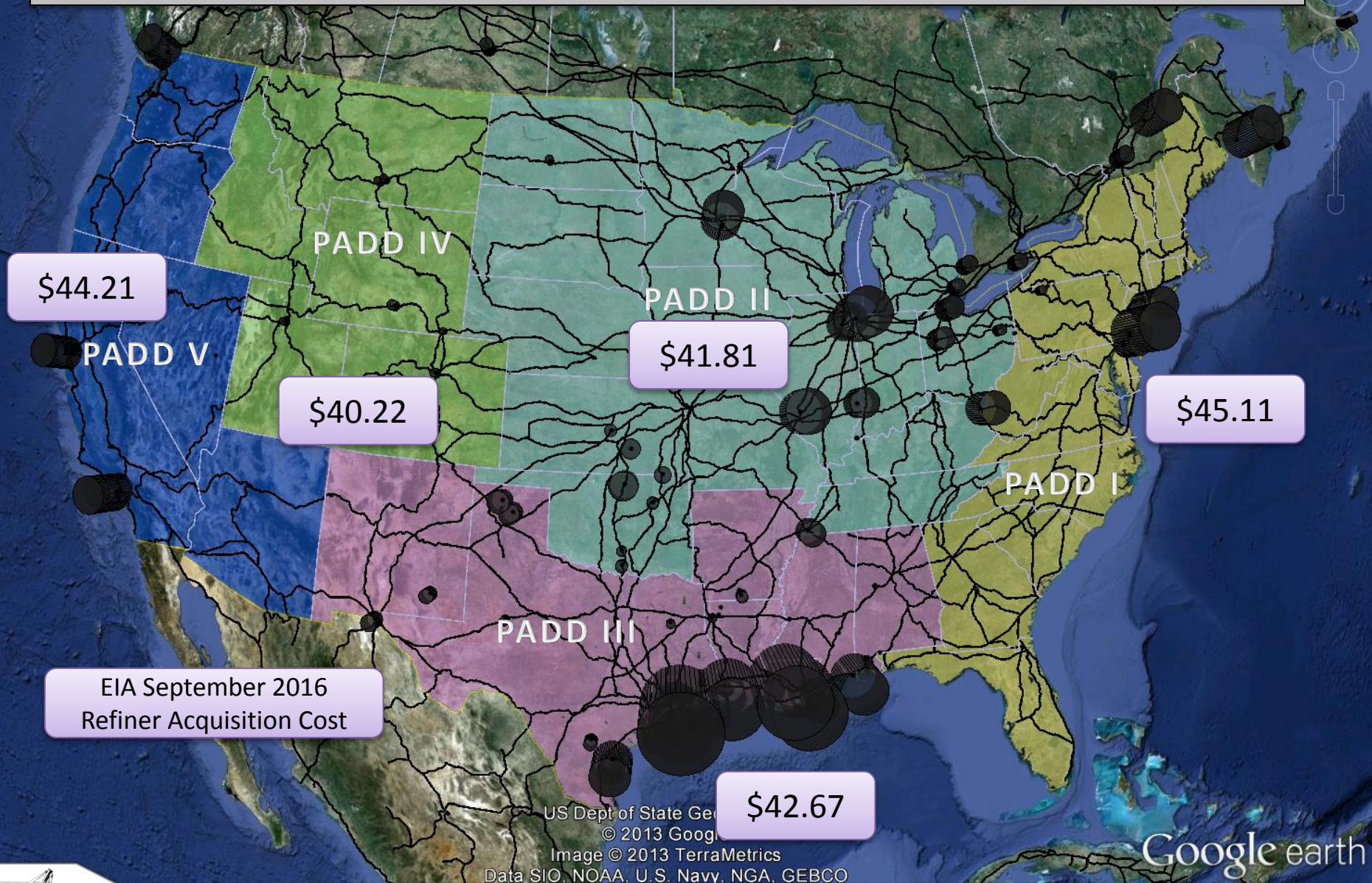
Rail Destinations Market Share (Sep. 2016)



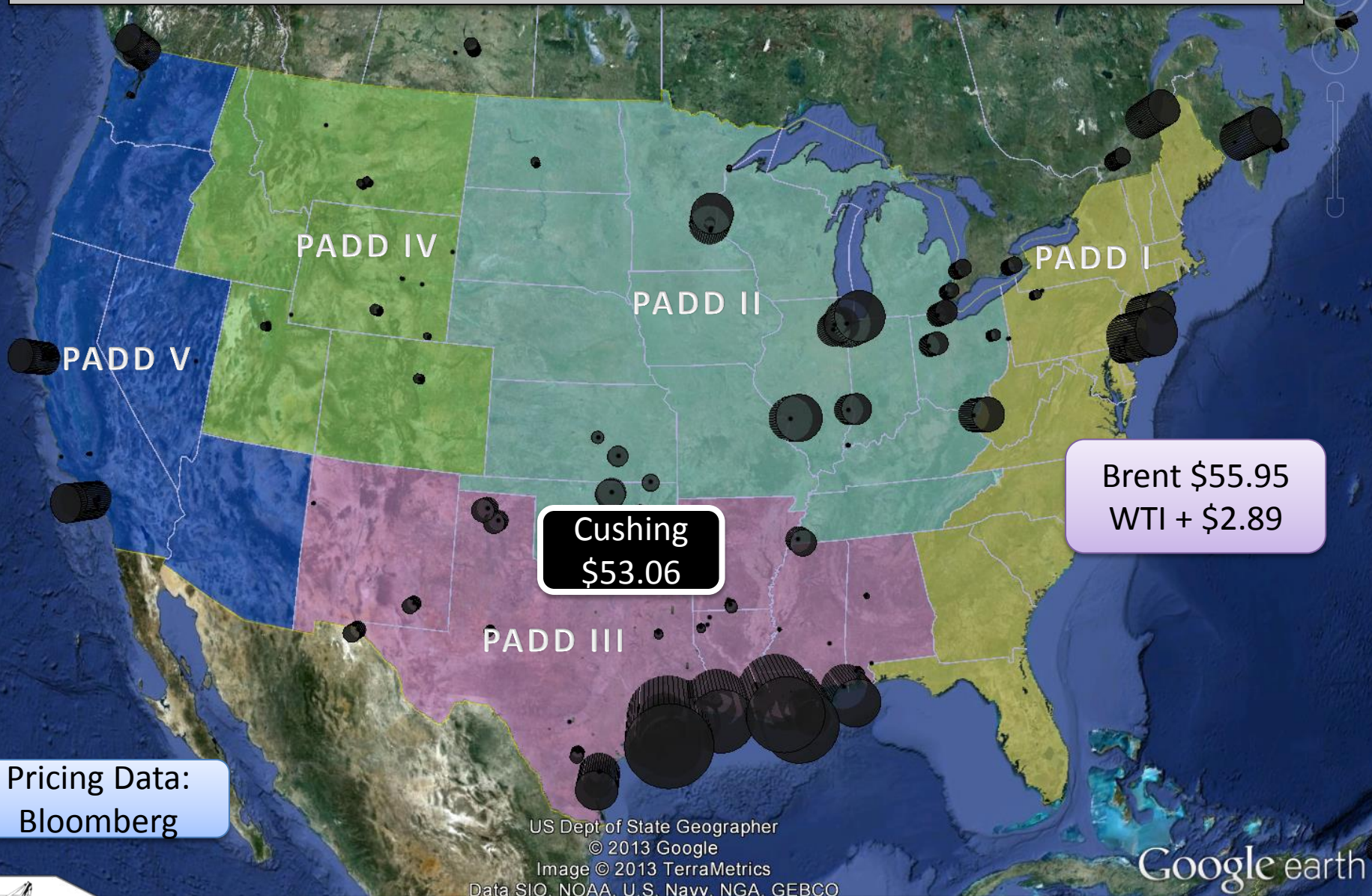
Data for Rail Destination Market Share Provided by the US Energy Information Administration



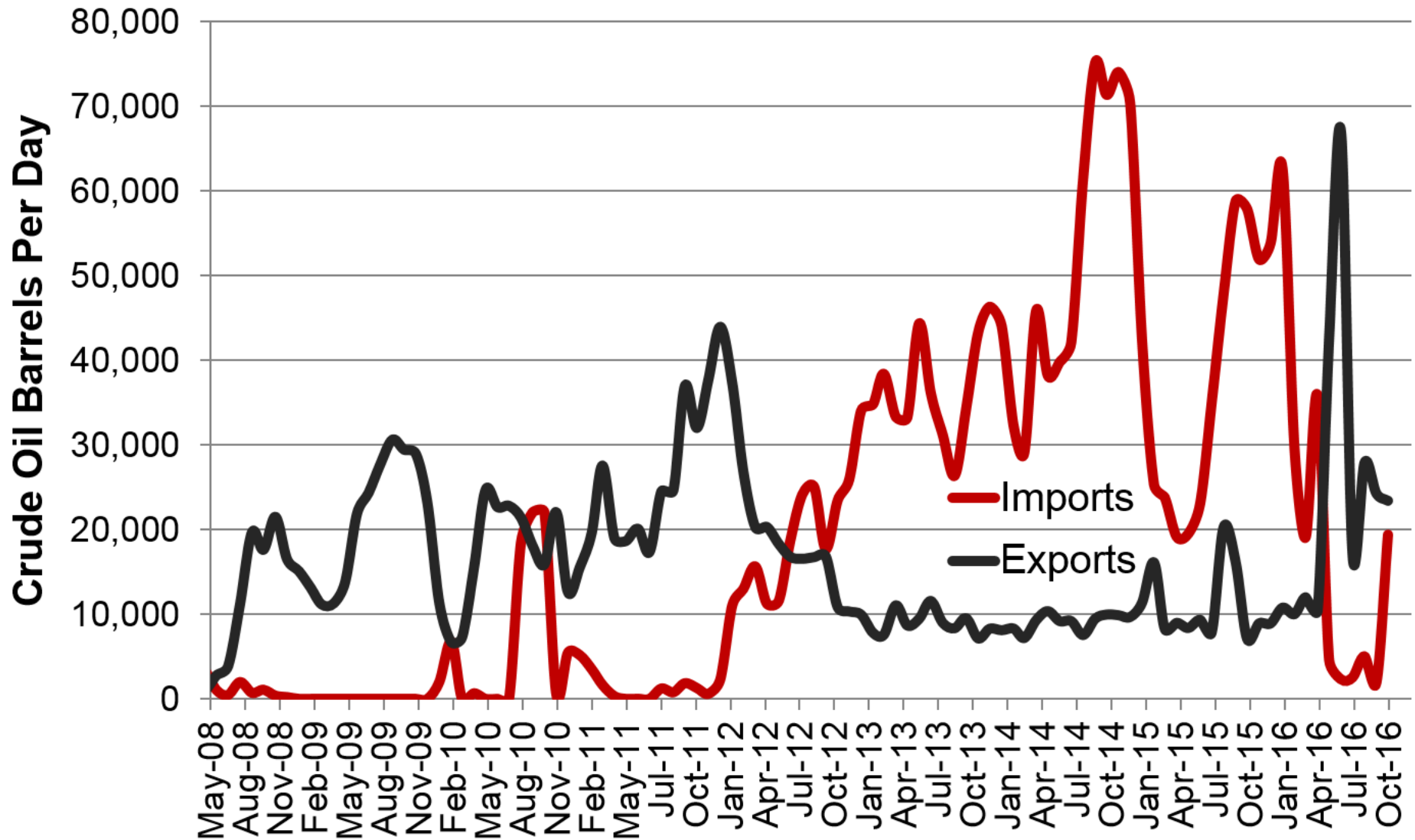
Major Rail Lines and Refineries



Crude Oil Prices – Dec 13, 2016



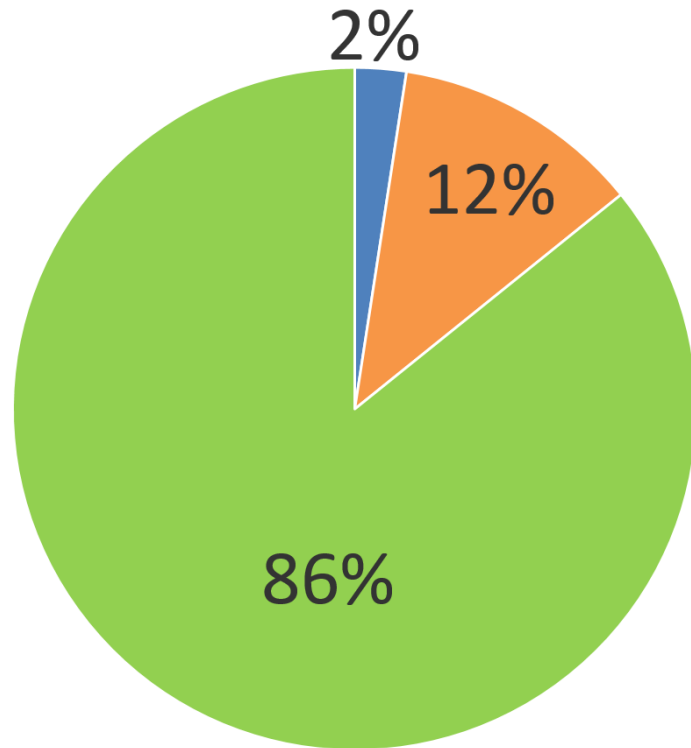
Williston Basin Truck Imports and Exports with Canada



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.

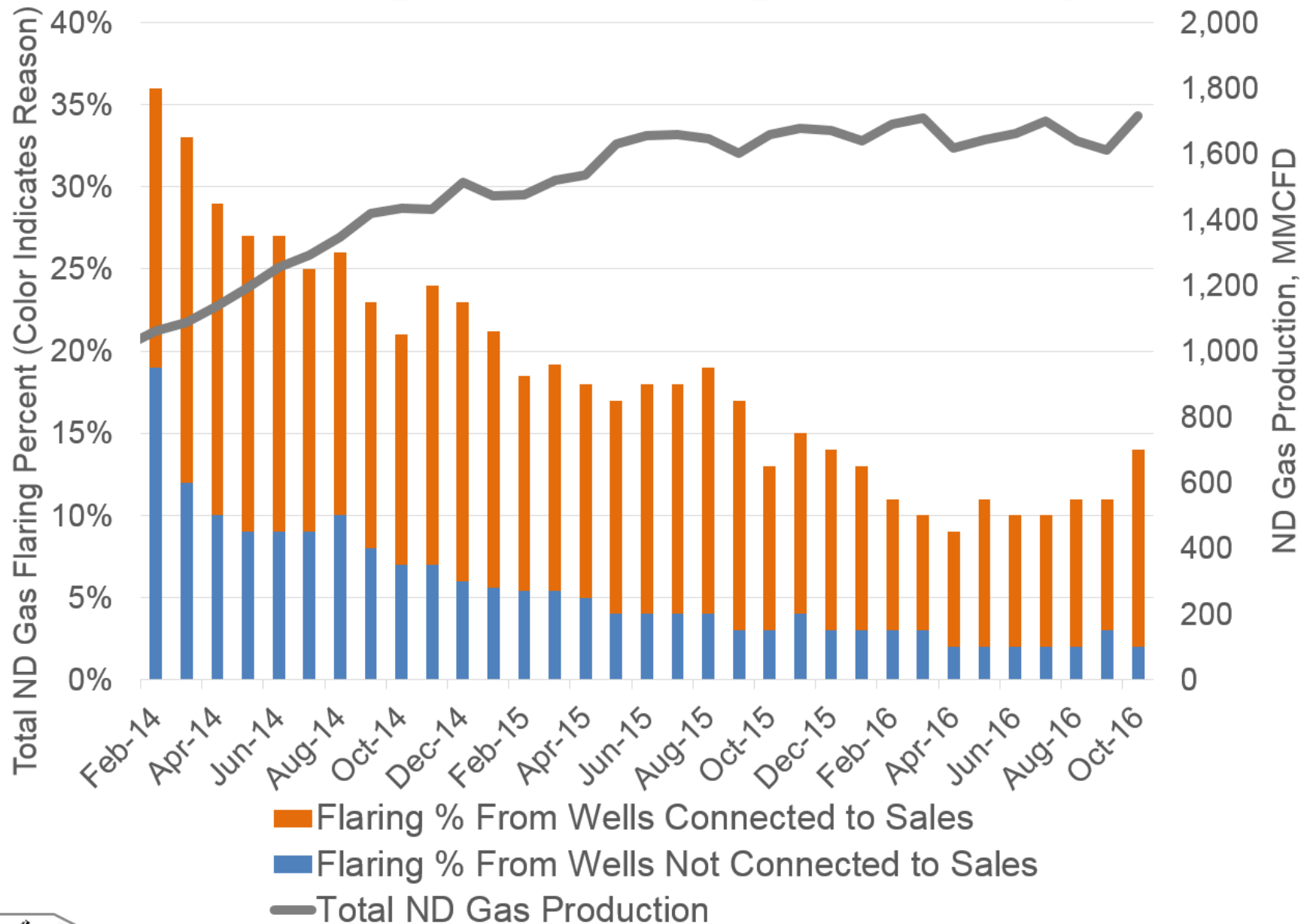
Simple Terms

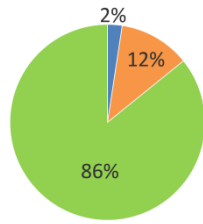
Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

Oct 2016 Data – Non-Confidential Wells

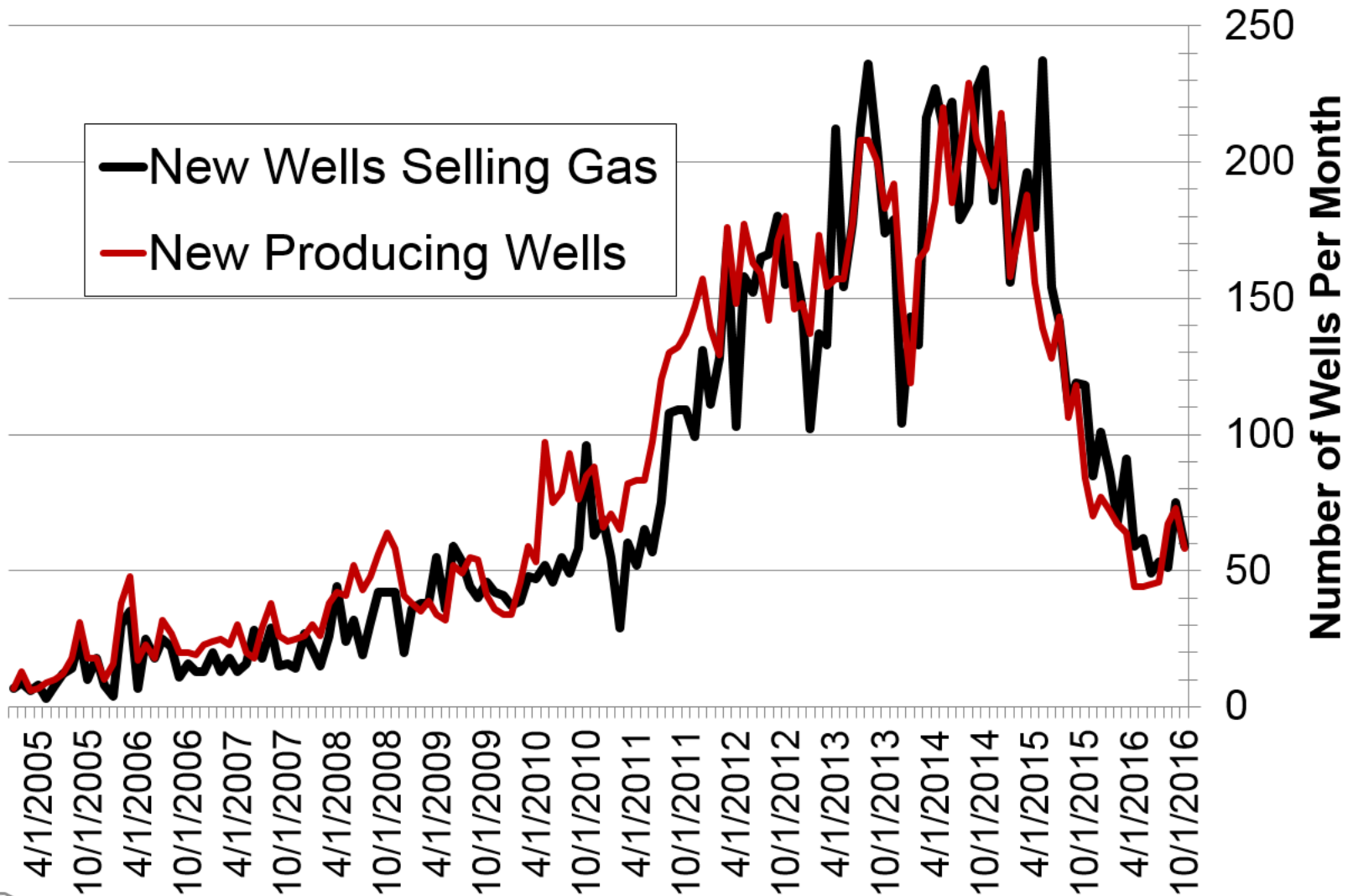


Solving the Flaring Challenge

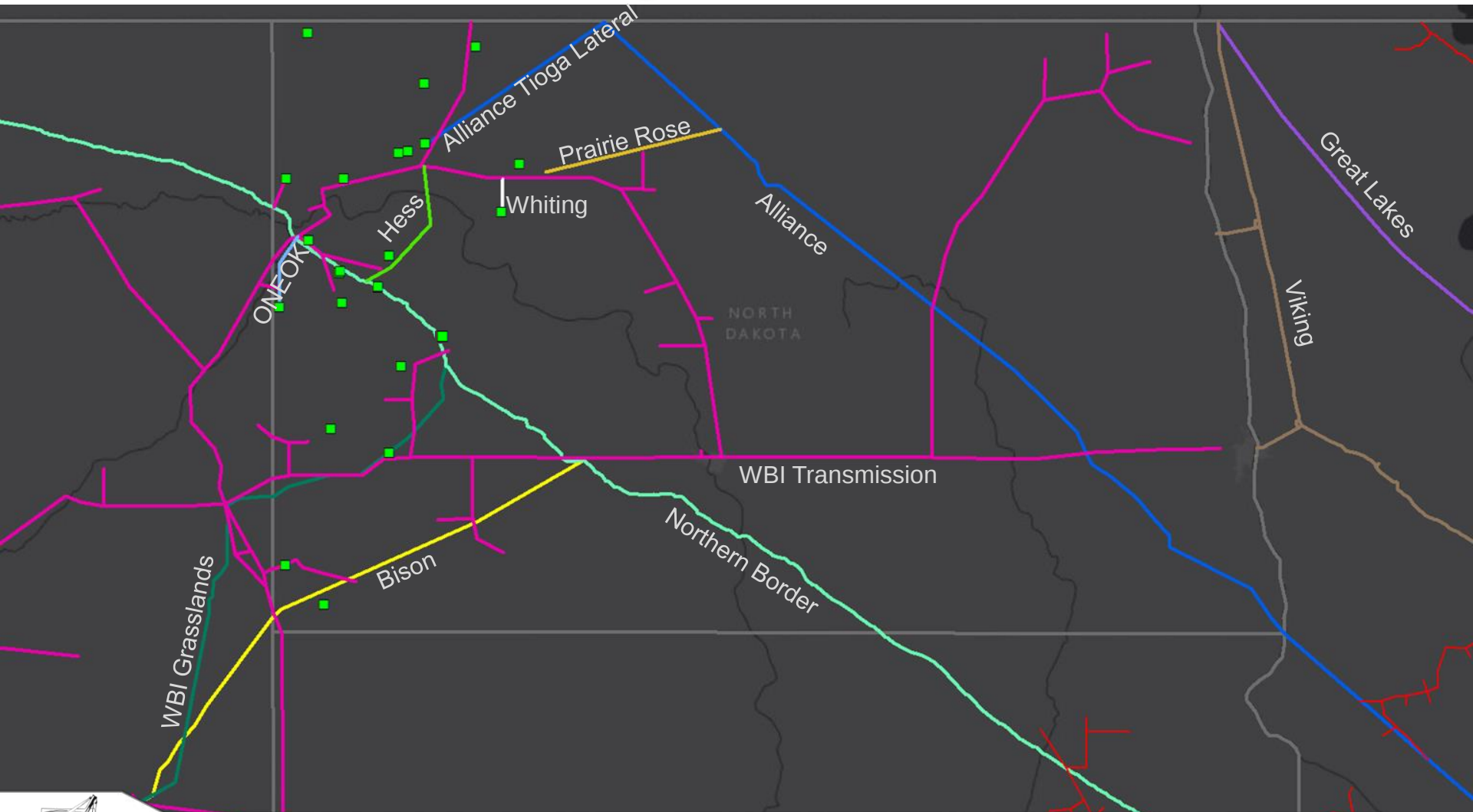




Capturing the 2% Faster Well Connections

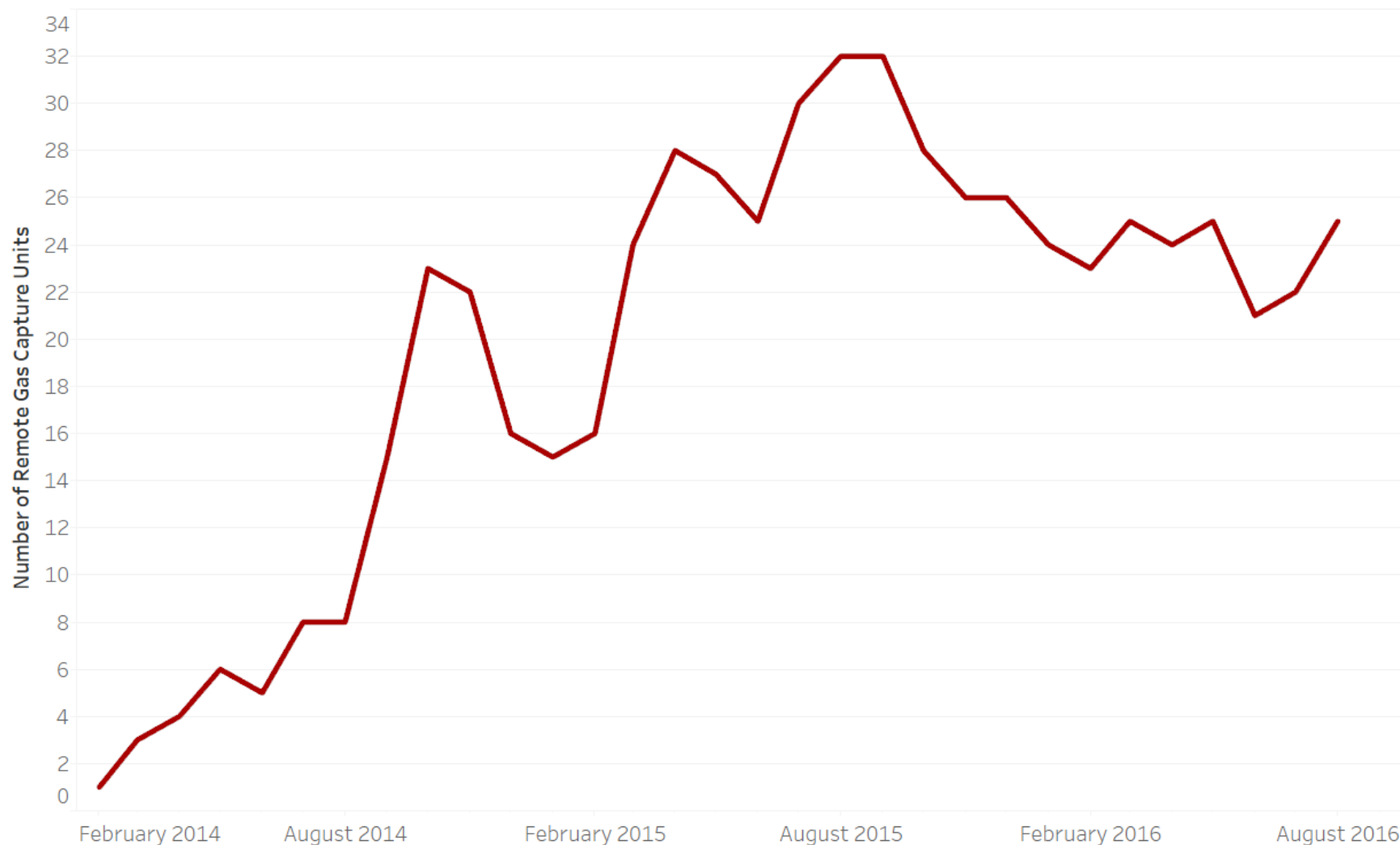


Major Gas Pipeline and Processing Infrastructure



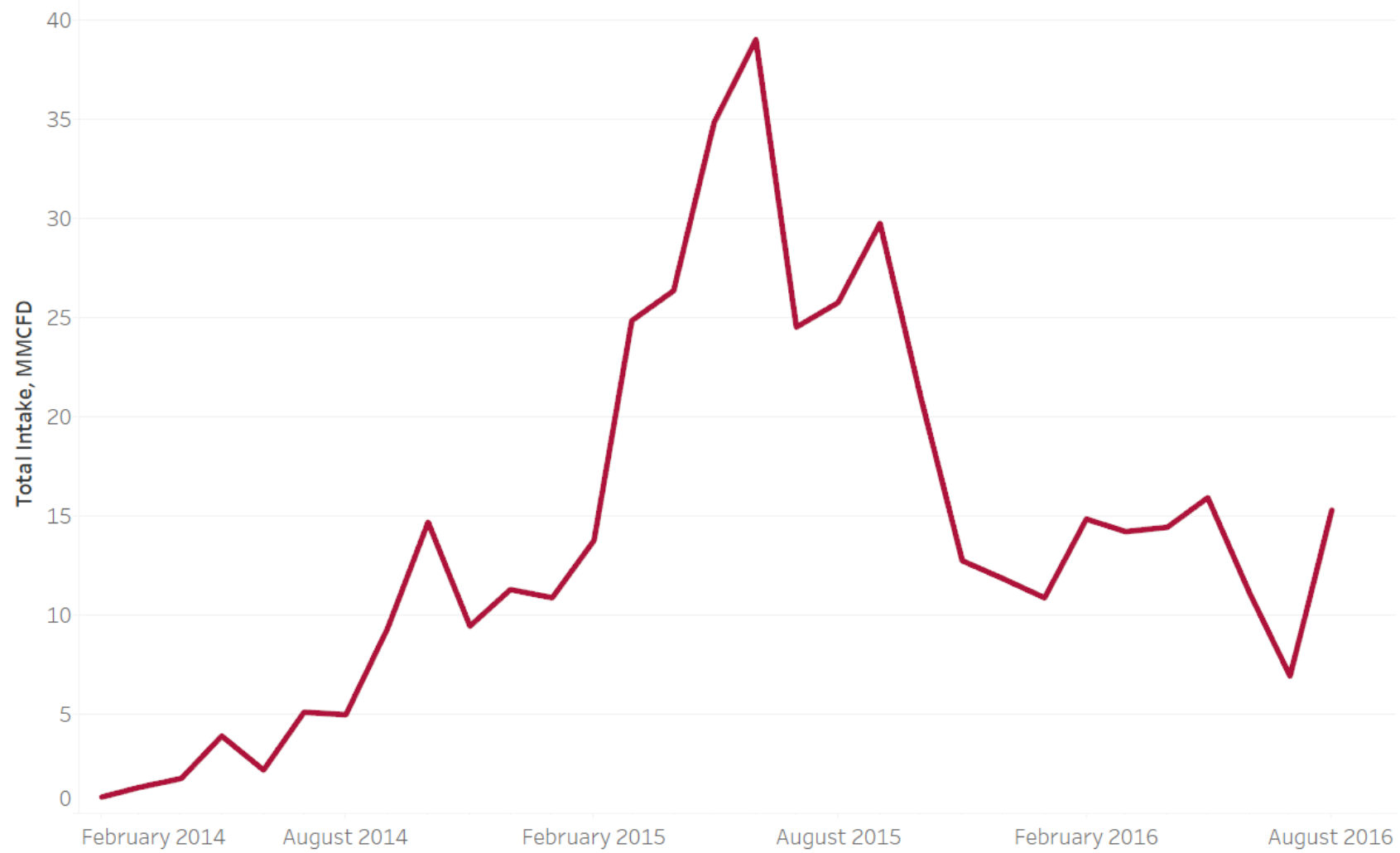
Wellhead Gas Capture – Locations

Number of Remote Gas Capture Units Reporting



Wellhead Gas Capture – Intake Volume

Remote Gas Capture Intake Volumes

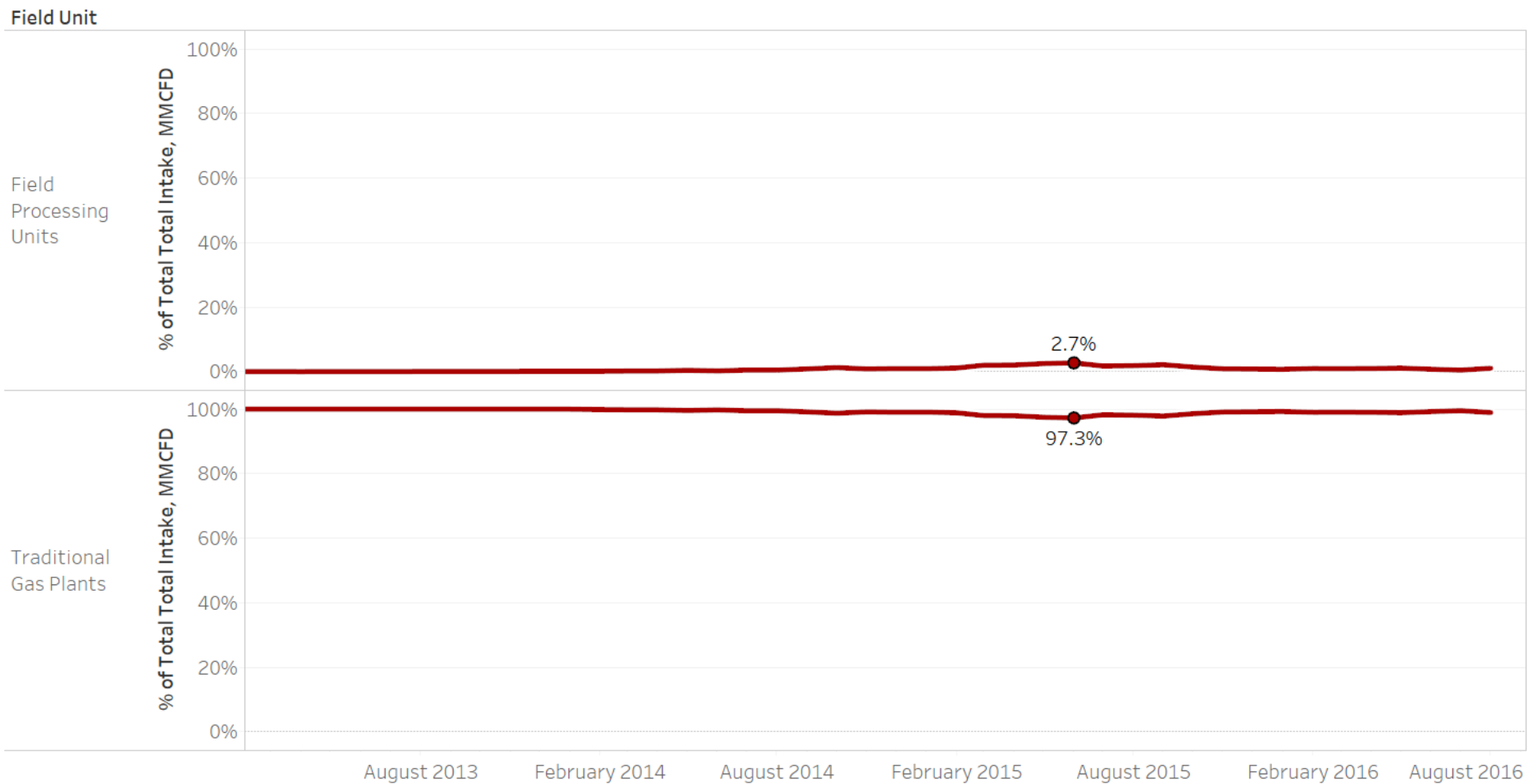


Wellhead Gas Capture – NGL Output

Remote Gas Capture NGL Output



Wellhead & Plant Gas Capture



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