



November 2021 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
November 16, 2021

US Williston Basin Oil Production - 2021

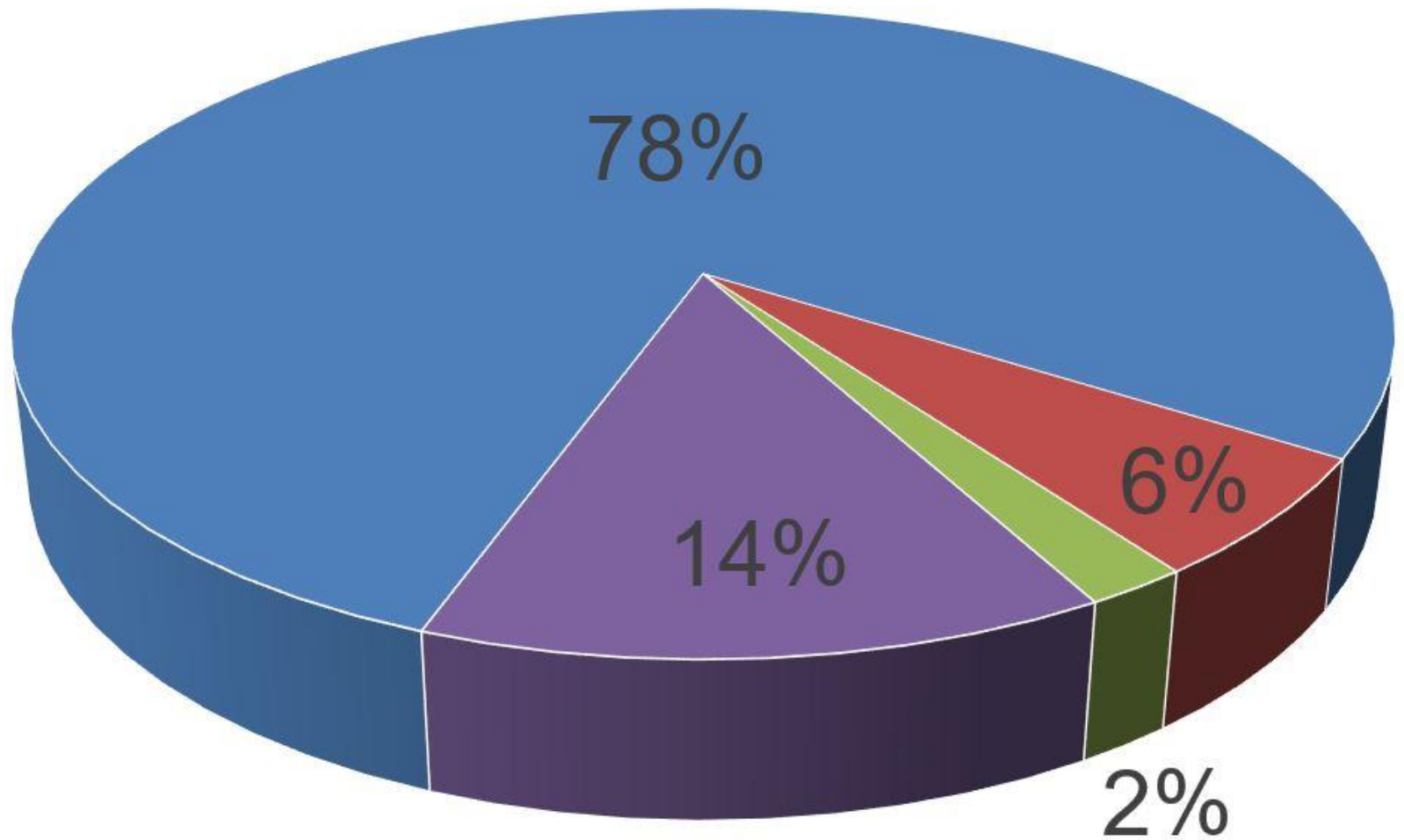
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,147,711	50,140	2,874	1,200,724
February	1,083,778	47,971	2,828	1,134,578
March	1,108,979	49,256	2,744	1,160,979
April	1,120,283	48,203	2,644	1,171,130
May	1,128,338	46,662	2,640	1,177,640
June	1,133,494	43,481	3,103	1,180,079
July	1,077,777	43,071	2,884	1,123,732
August	1,107,359	46,518	2,892	1,156,769
September	1,113,410			
October				
November				
December				



North Dakota Monthly Production Change



Estimated Williston Basin Oil Transportation



■ Pipeline Export

■ Truck/Rail to Canada

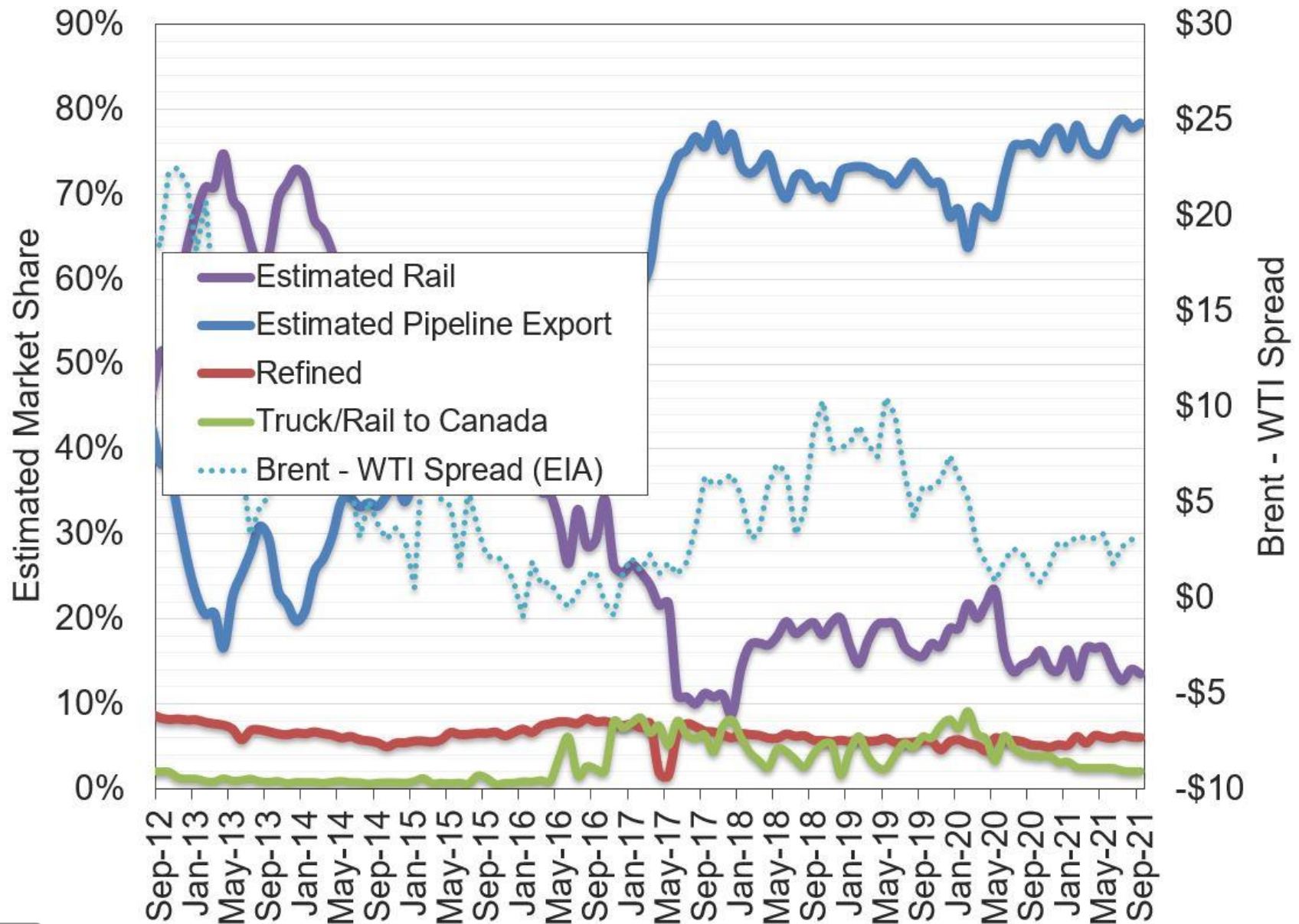
■ Refined

■ Estimated Rail

September 2021



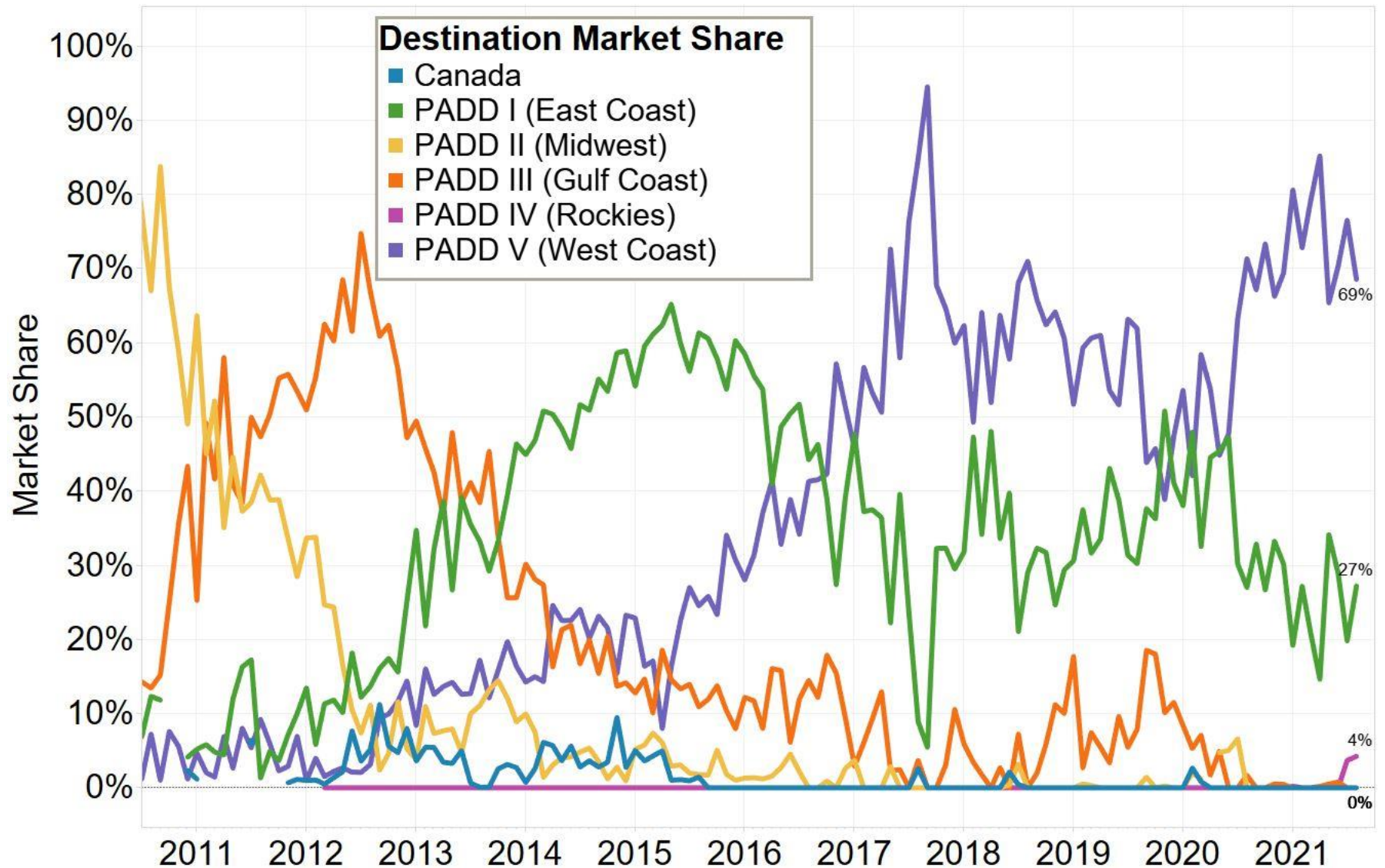
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



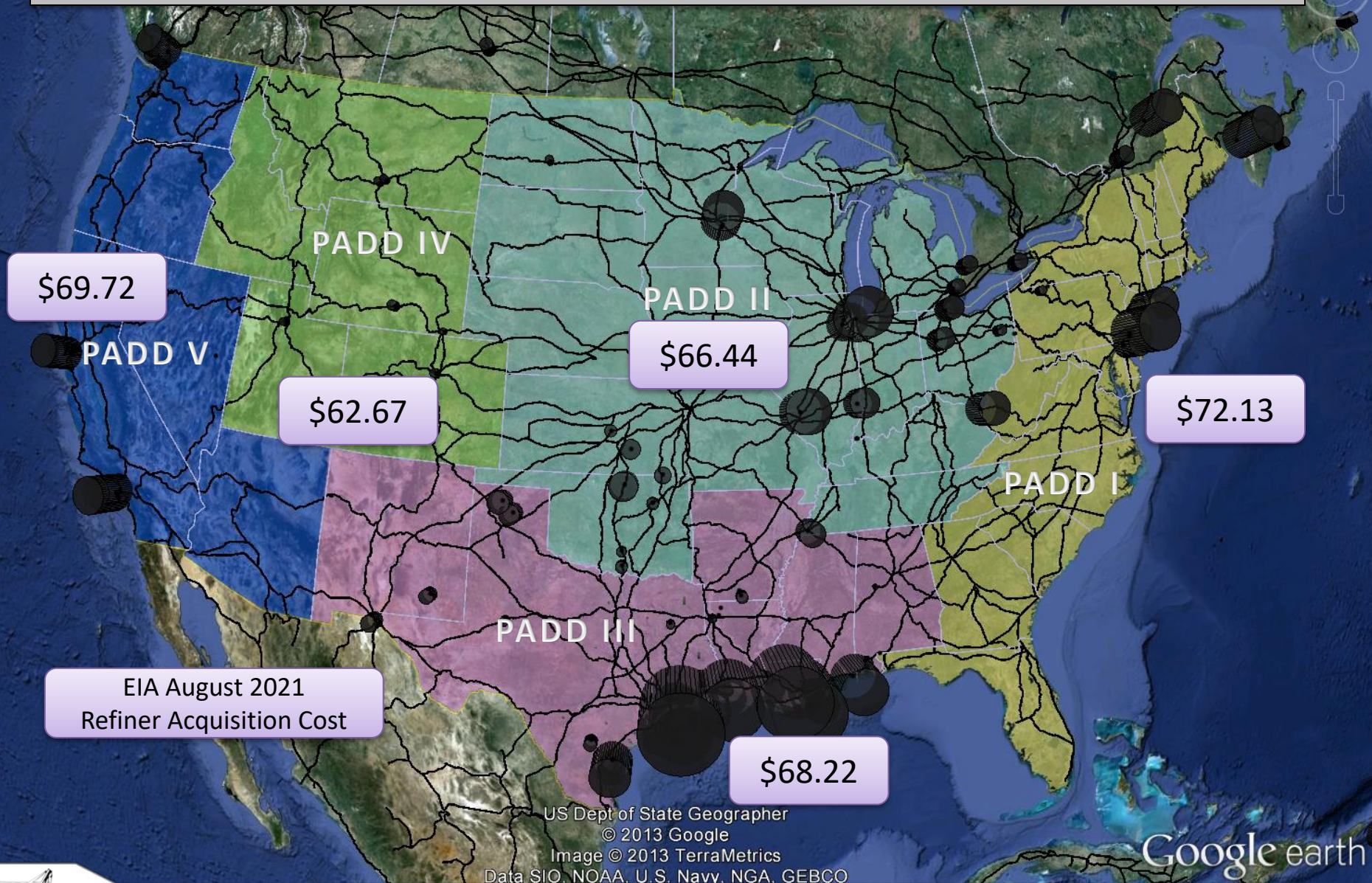
Rail Destinations Market Share (Aug. 2021)



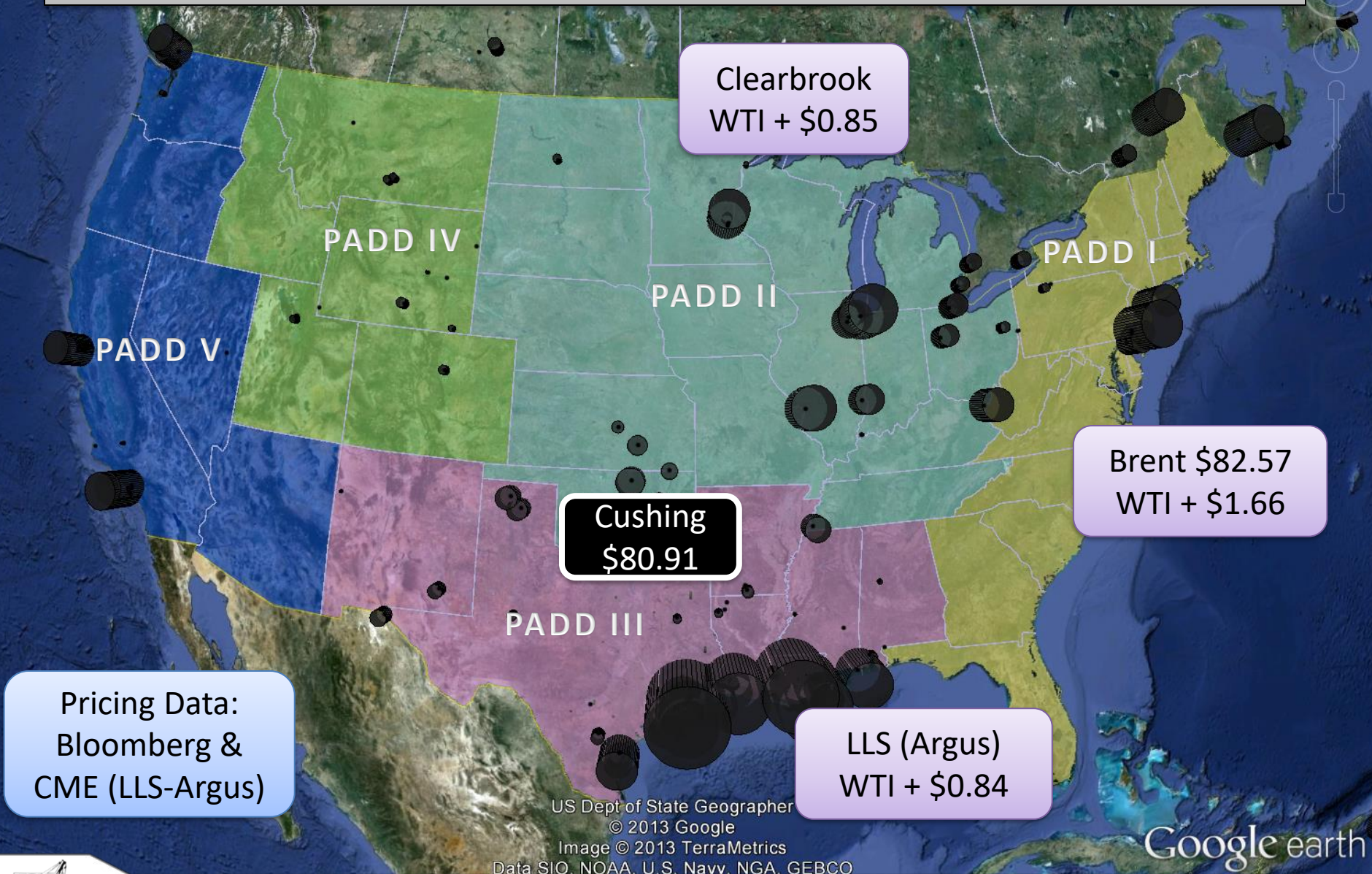
Data for Rail Destination Market Share Provided by the US Energy Information Administration



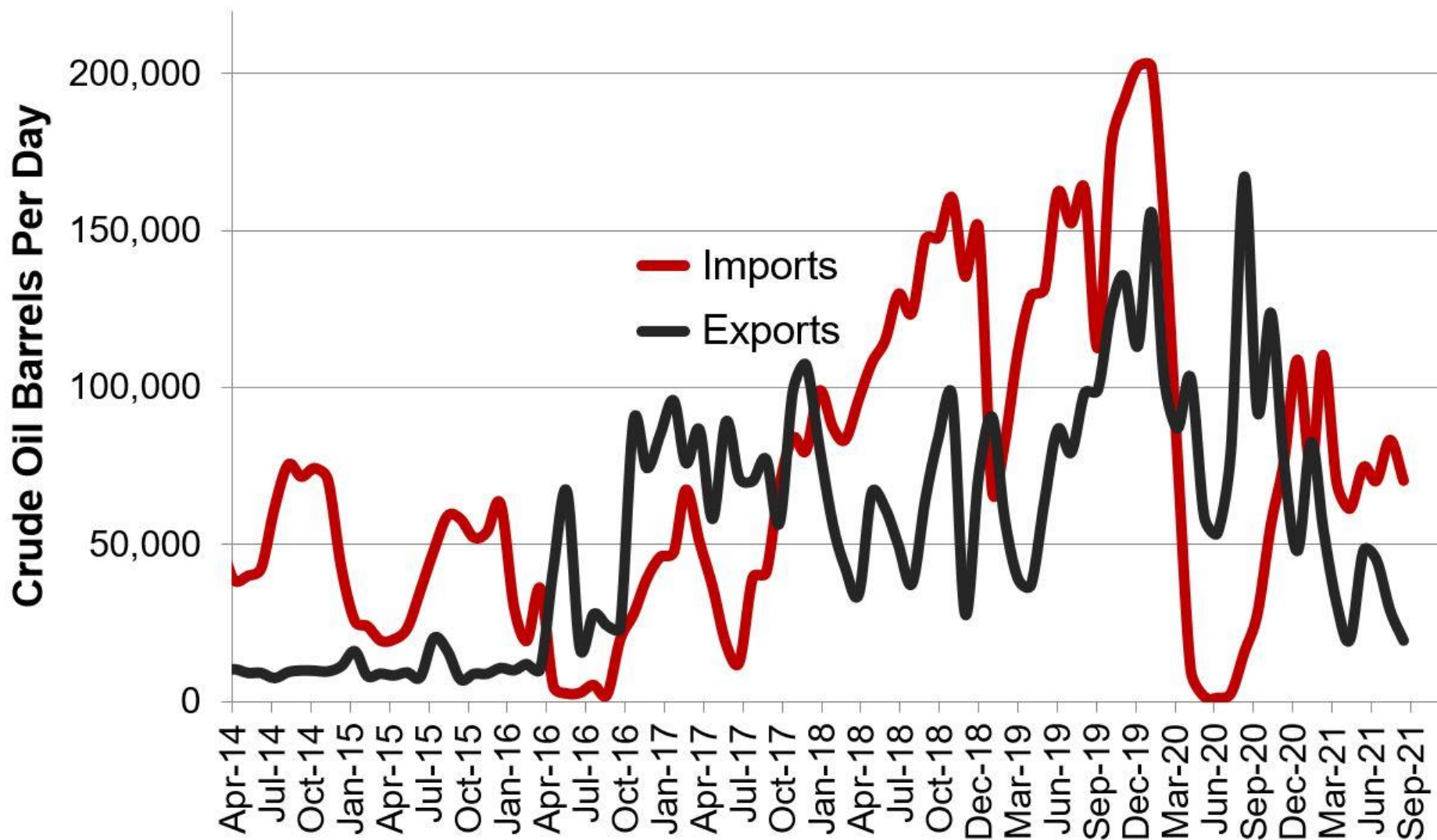
Major Rail Lines and Refineries



Crude Oil Prices – Nov. 16, 2021



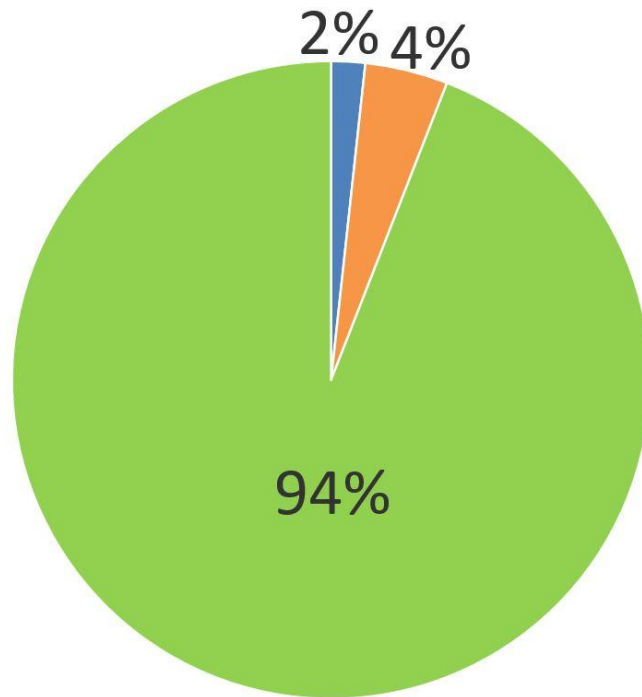
Williston Basin Truck/Rail Imports and Exports with Canada



Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.



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

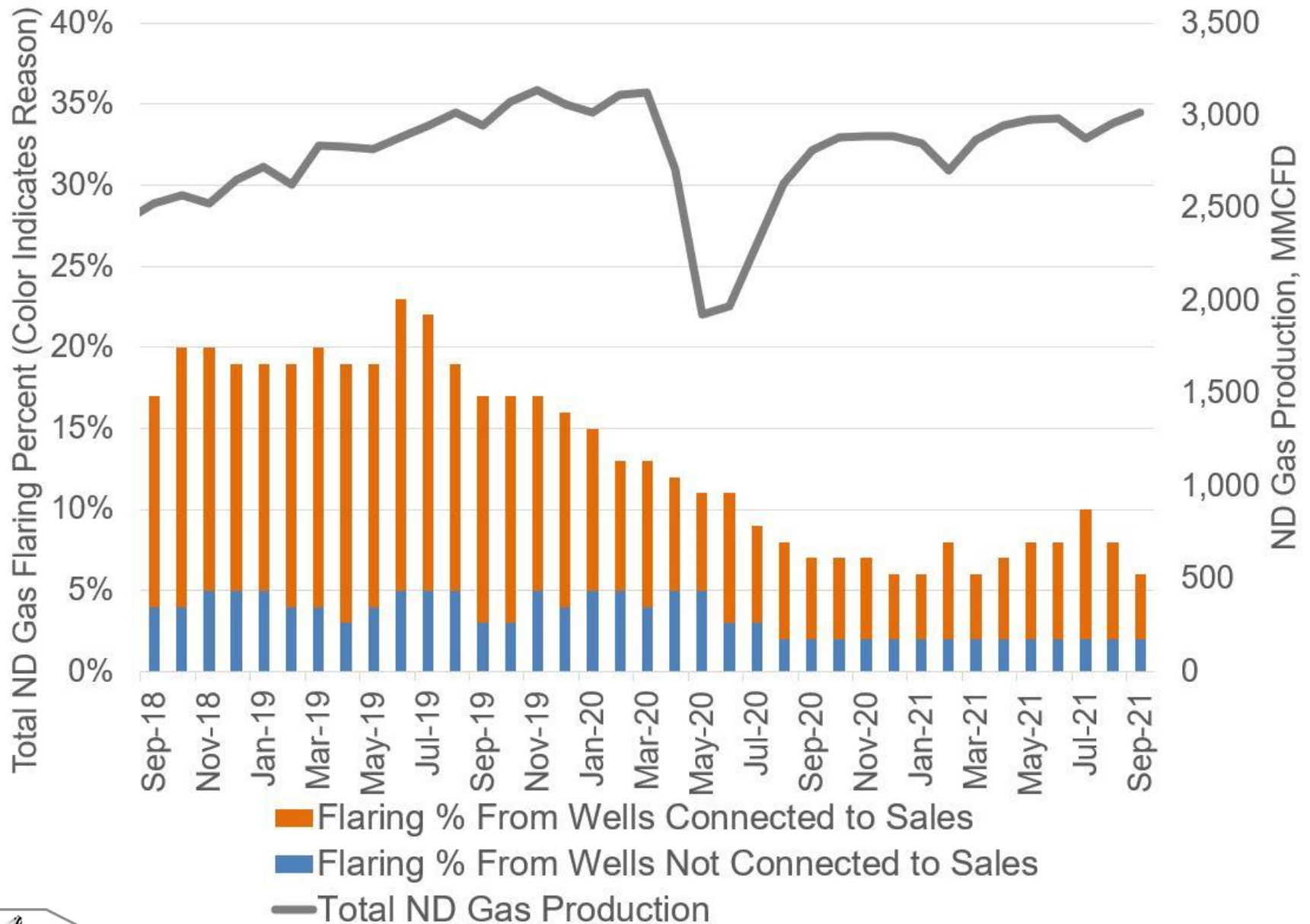
Blue – Lack of pipelines

Orange – Challenges on existing infrastructure

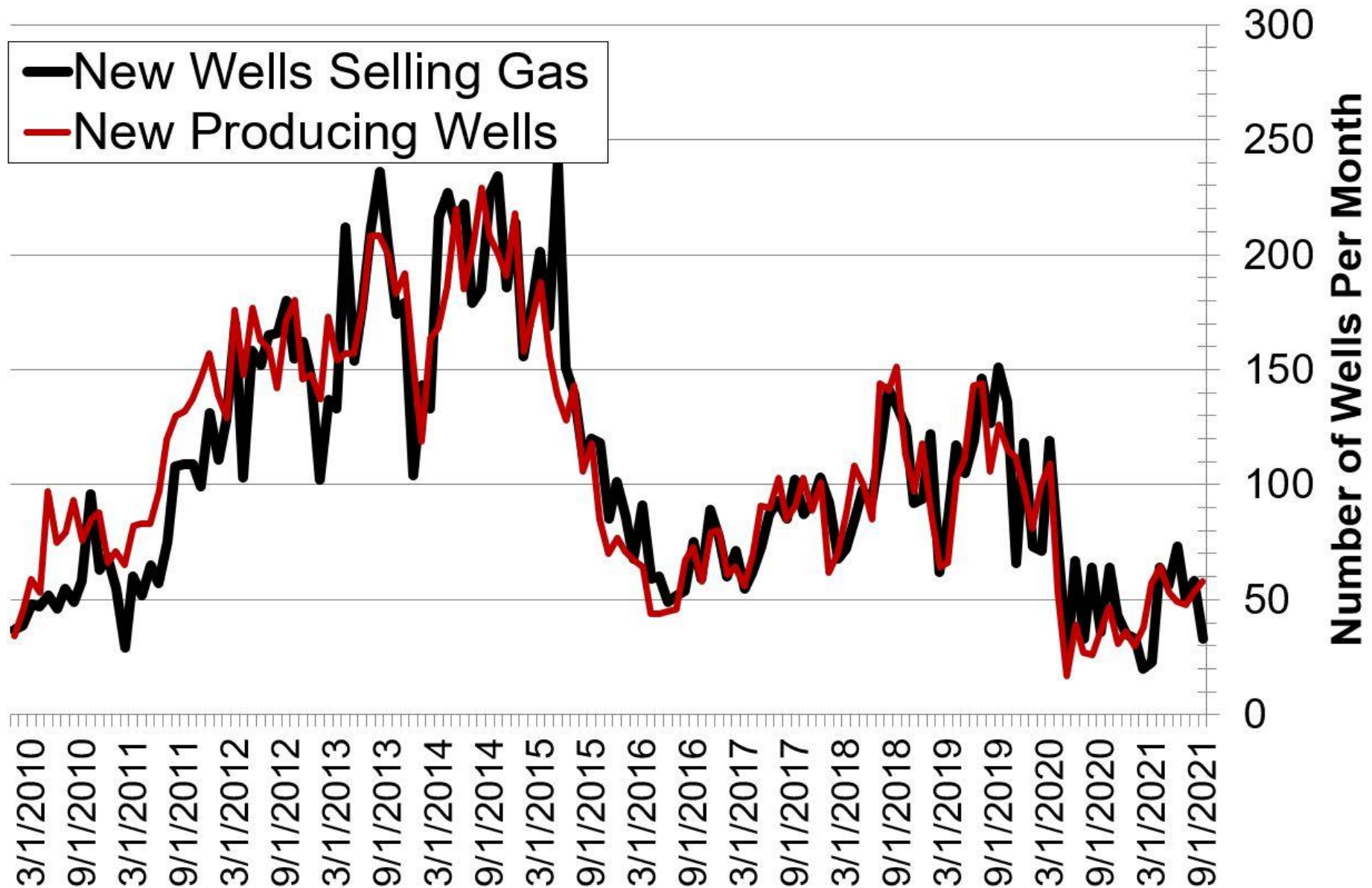
Sep. 2021 Data – Non-Confidential Wells



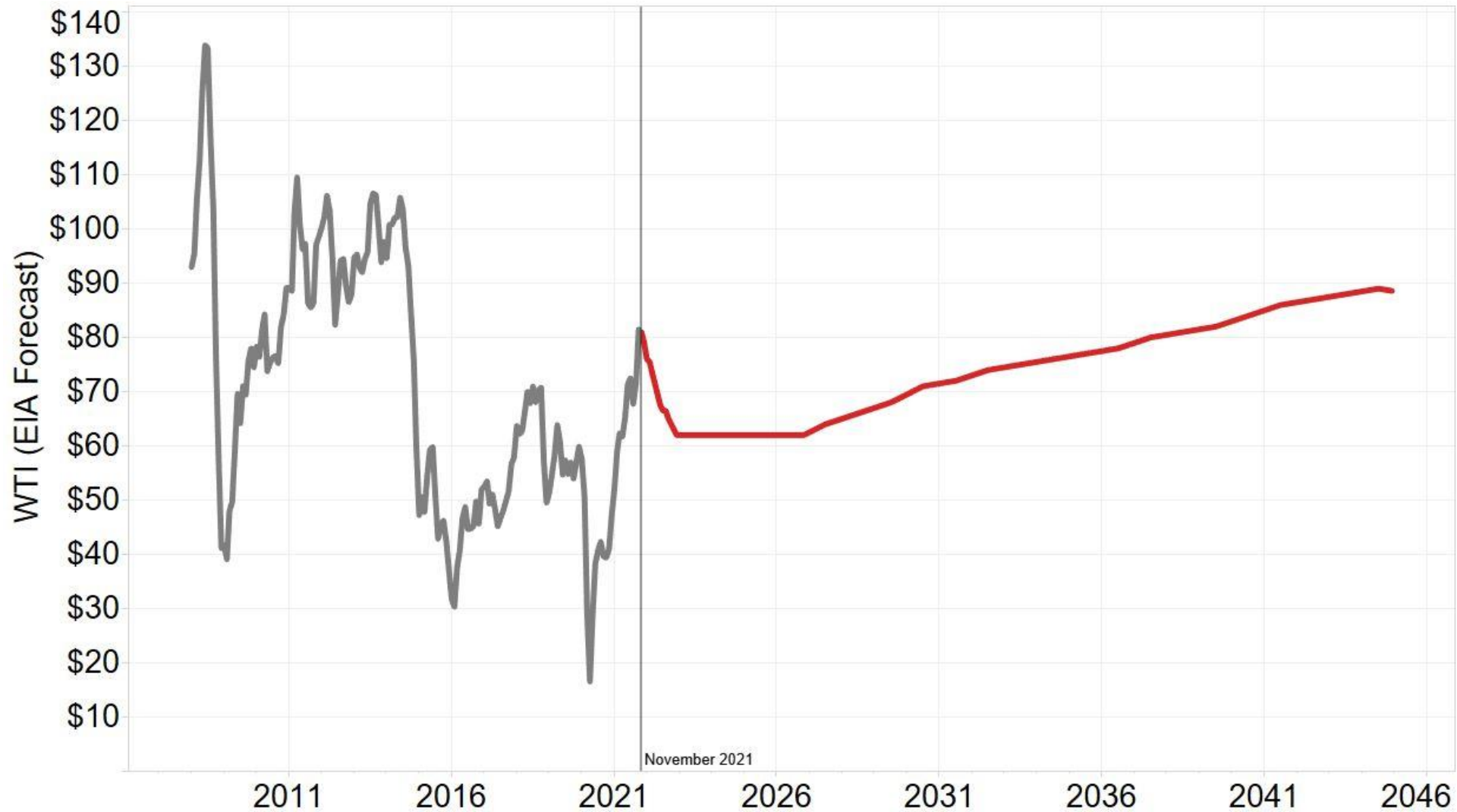
Solving the Flaring Challenge



Solving the Flaring Challenge



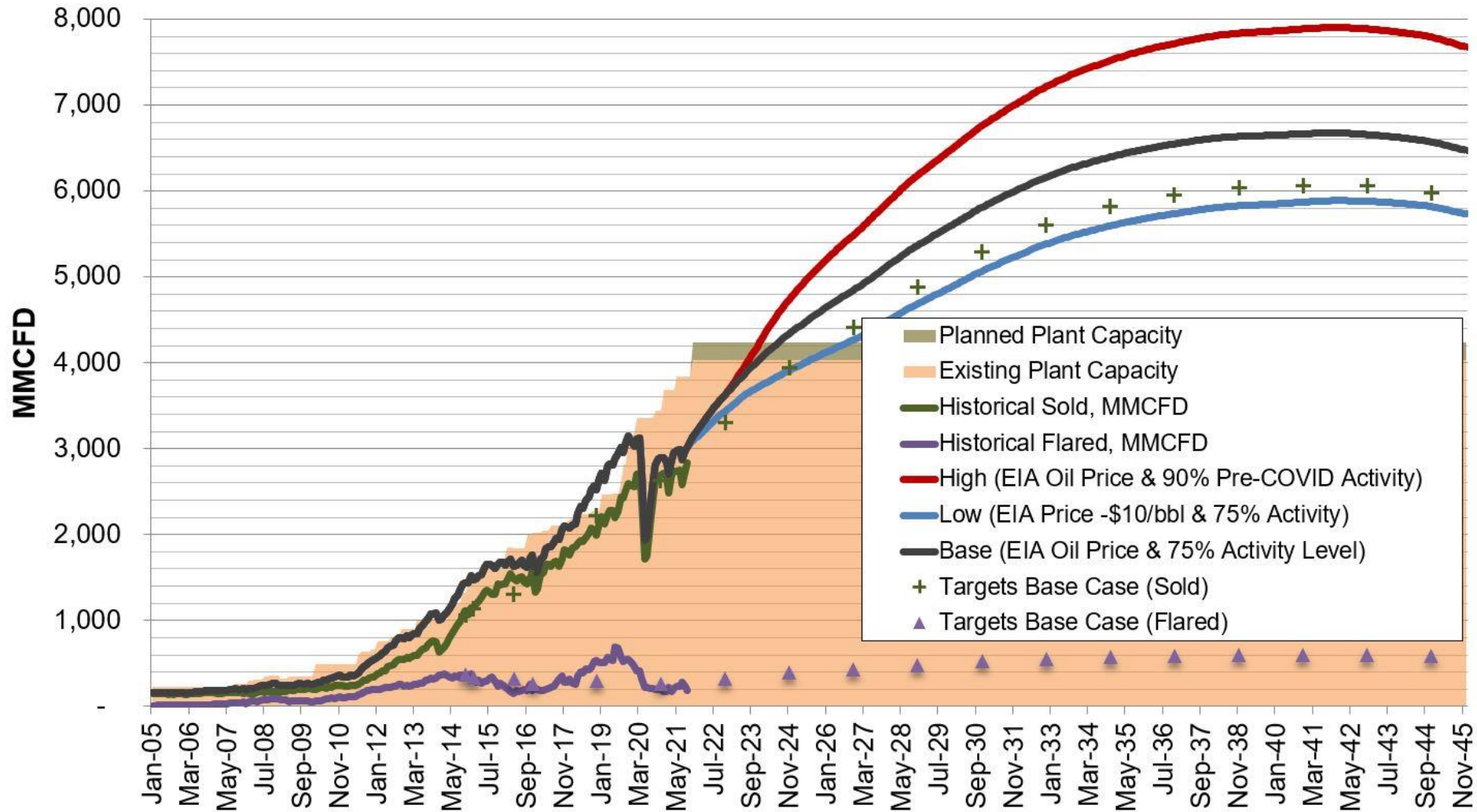
EIA Oil Price Forecast*



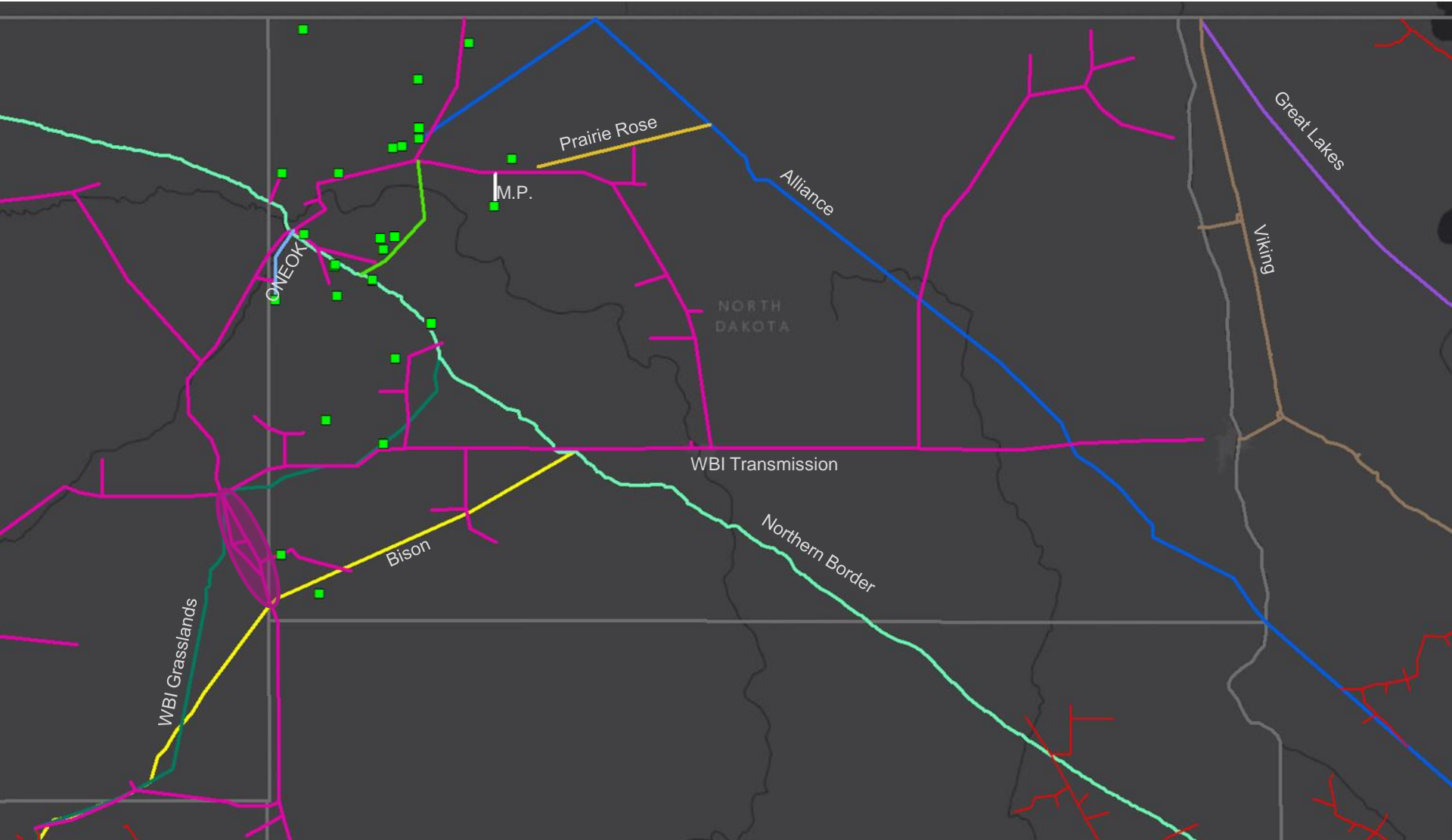
**EIA November 2021 SEO and February 2021 AEO Blend*



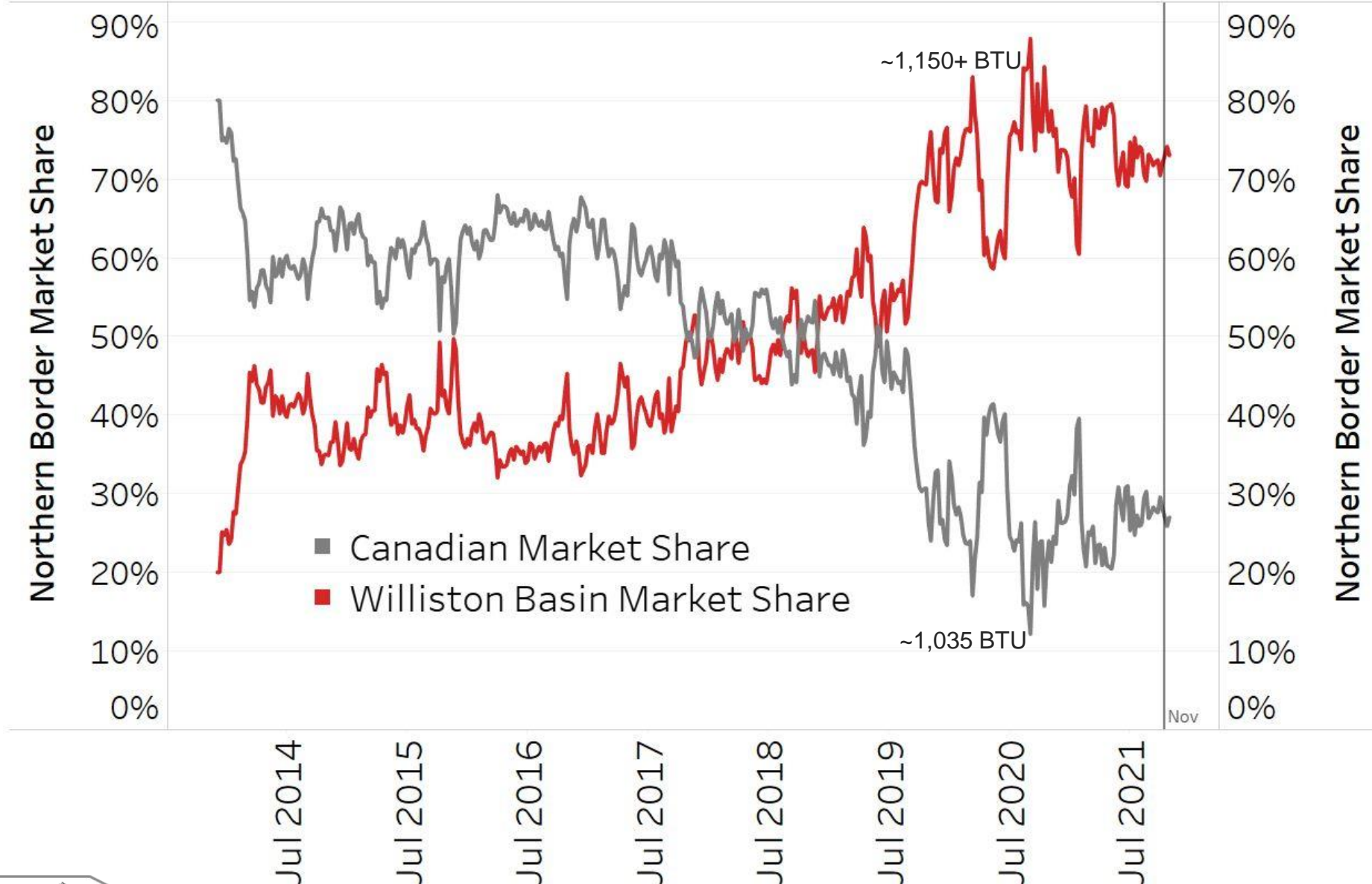
Solving the Flaring Challenge



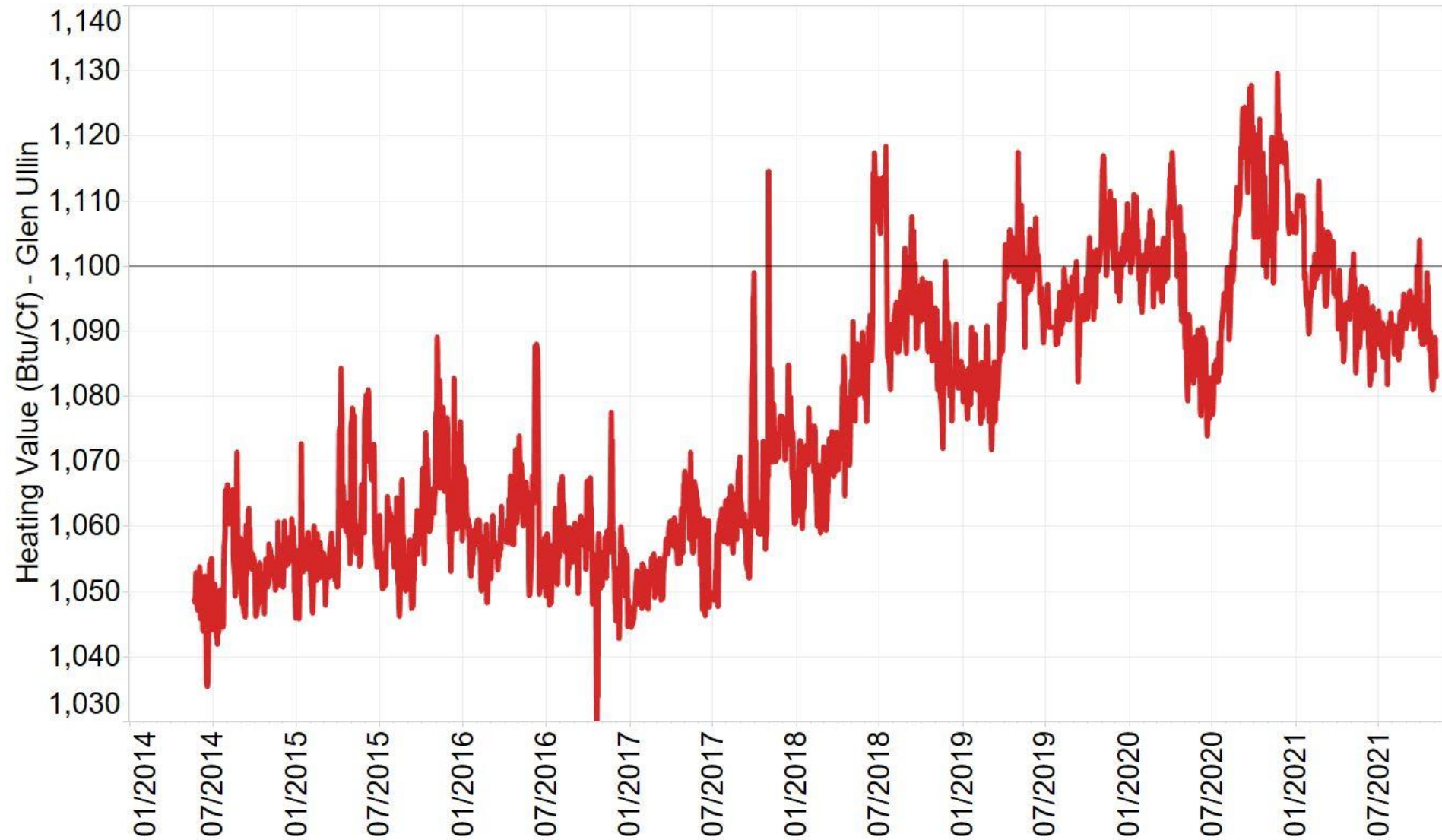
Major Gas Pipeline and Processing Infrastructure



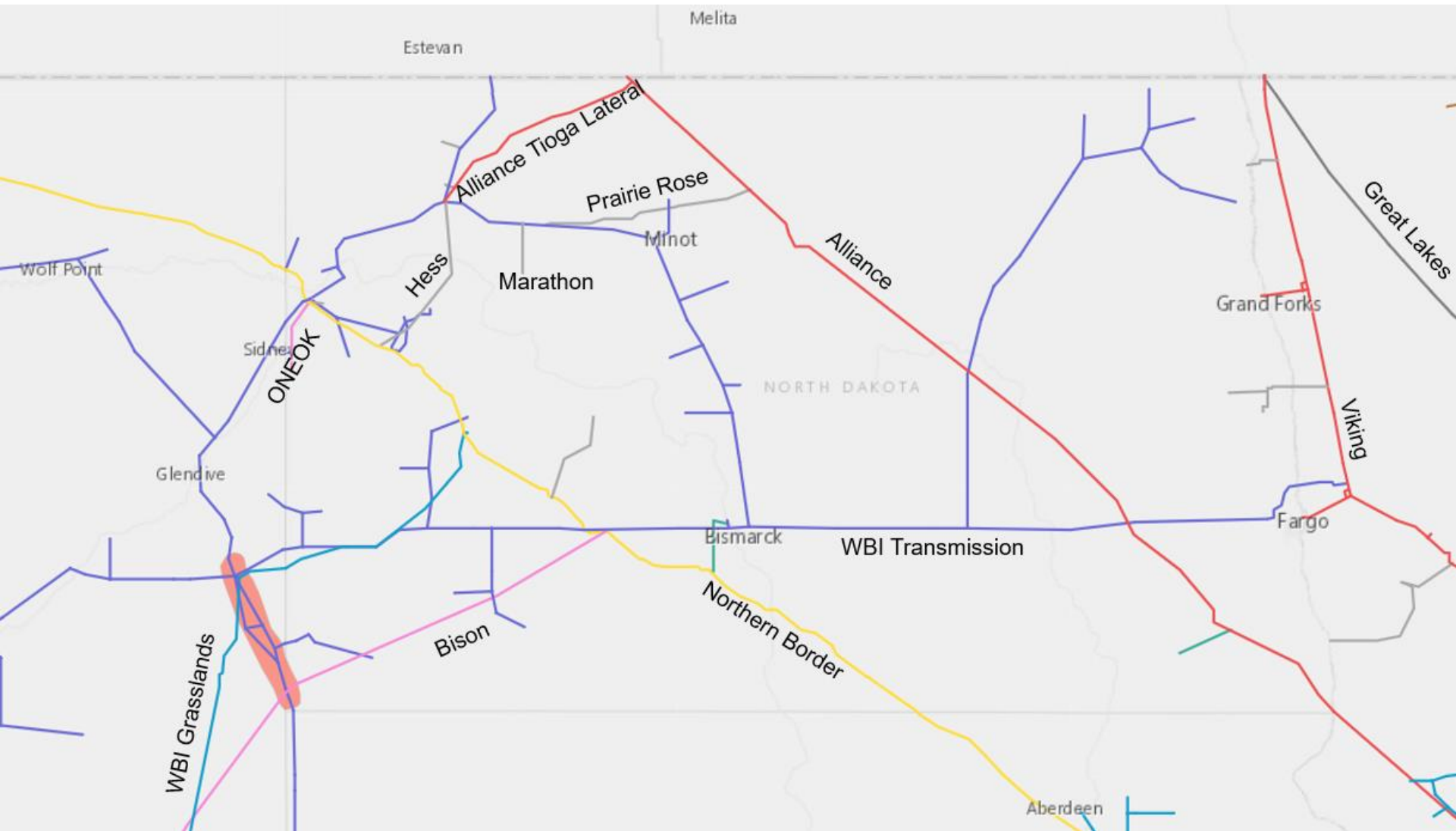
Northern Border Pipeline Market Share



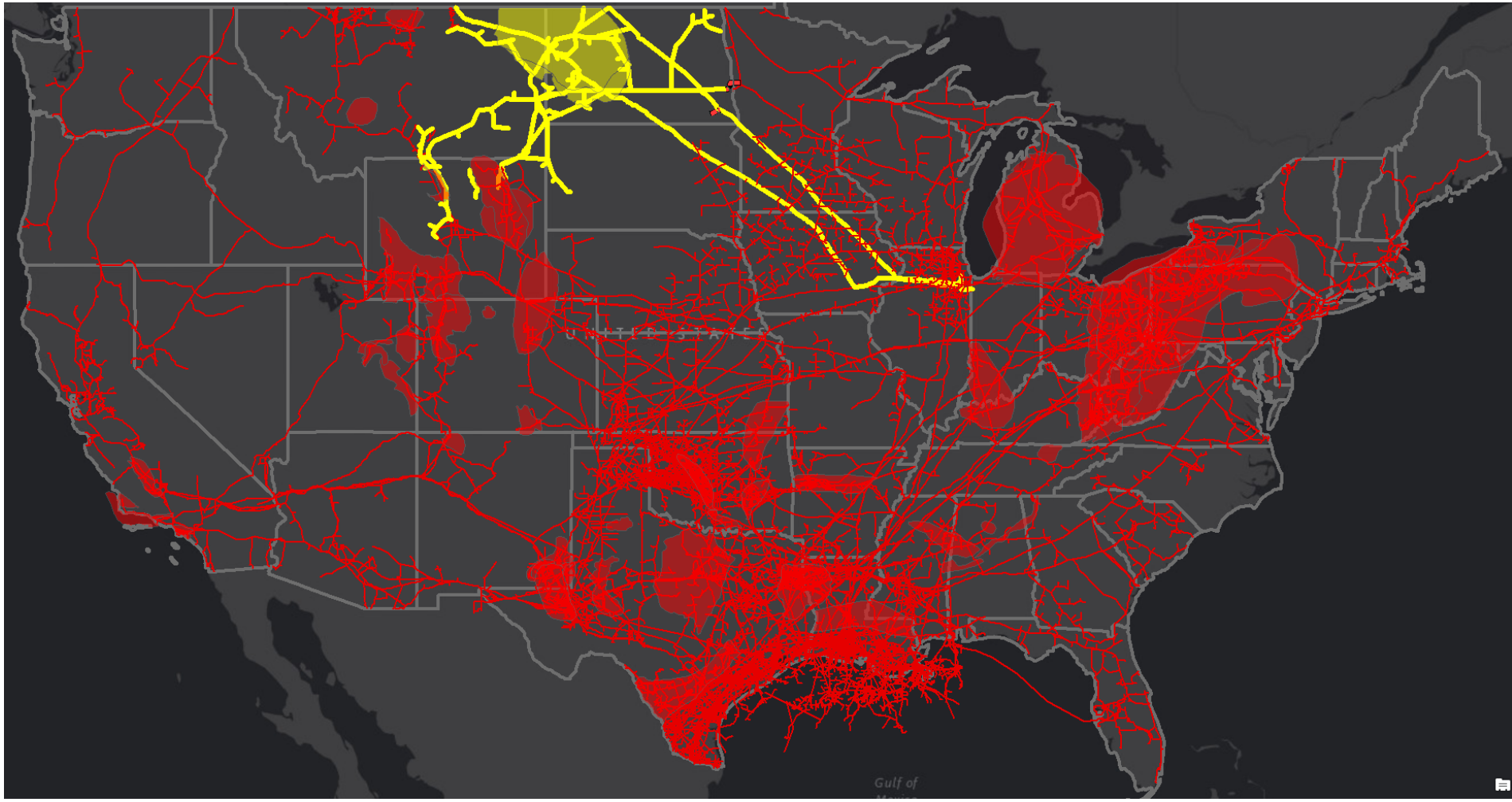
Northern Border BTU at Glen Ullin, ND



Bakken Natural Gas Infrastructure



Bakken Natural Gas Infrastructure



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