



November 2022 Monthly Update North Dakota Pipeline Authority

Justin J. Kringstad

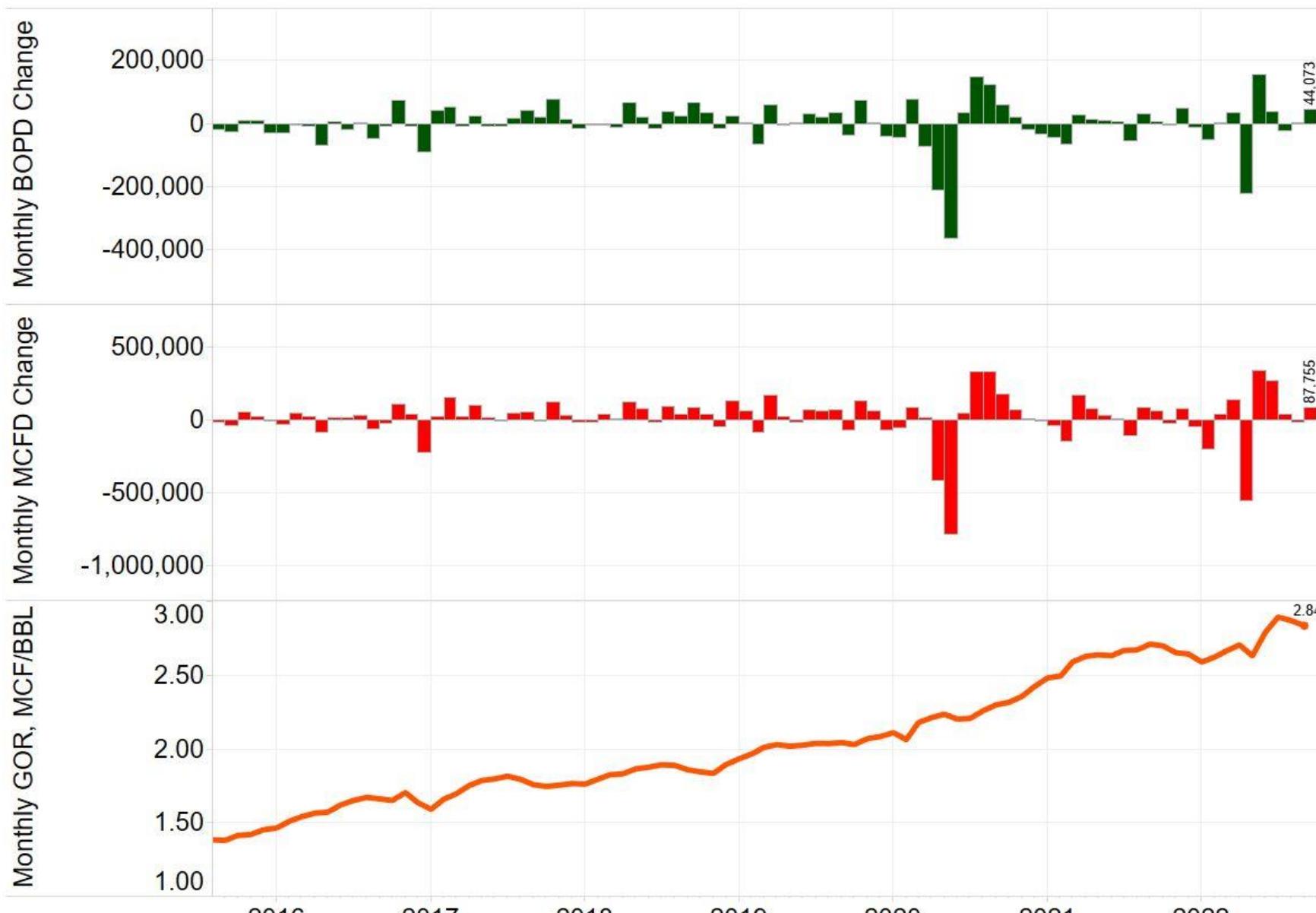
November 15, 2022

US Williston Basin Oil Production - 2022

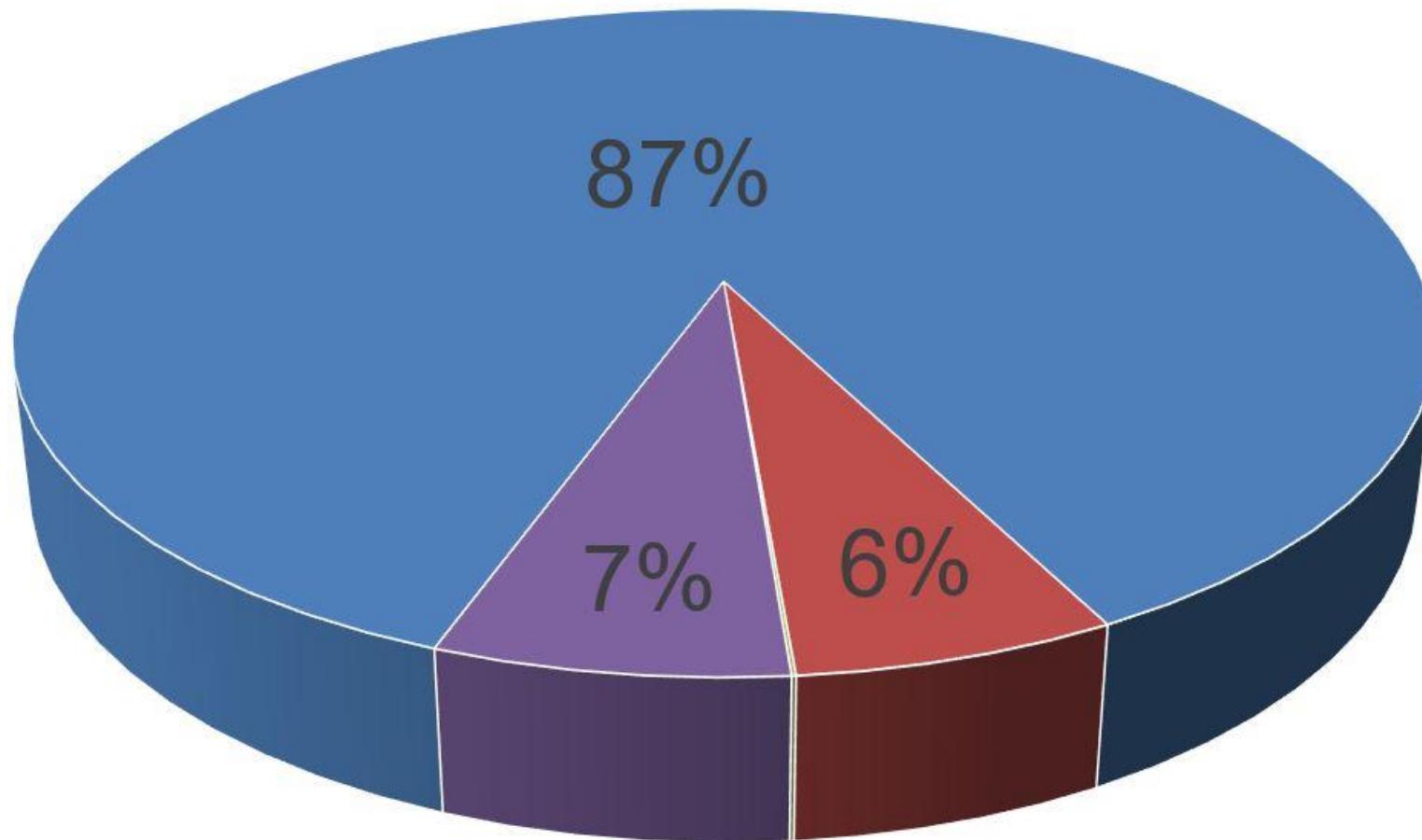
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,091,923	47,598	2,709	1,142,230
February	1,093,706	46,947	2,742	1,143,395
March	1,128,295	50,498	2,709	1,181,502
April	906,990	49,825	2,338	959,153
May	1,060,897	49,159	2,648	1,112,704
June	1,098,156	58,901	2,764	1,159,821
July	1,072,637	54,729	2,774	1,130,140
August	1,075,307	55,823	2,756	1,133,885
September	1,119,379			
October				
November				
December				



North Dakota Monthly Production Change



Estimated Williston Basin Oil Transportation



■ Pipeline Export

■ Truck/Rail to Canada

0%

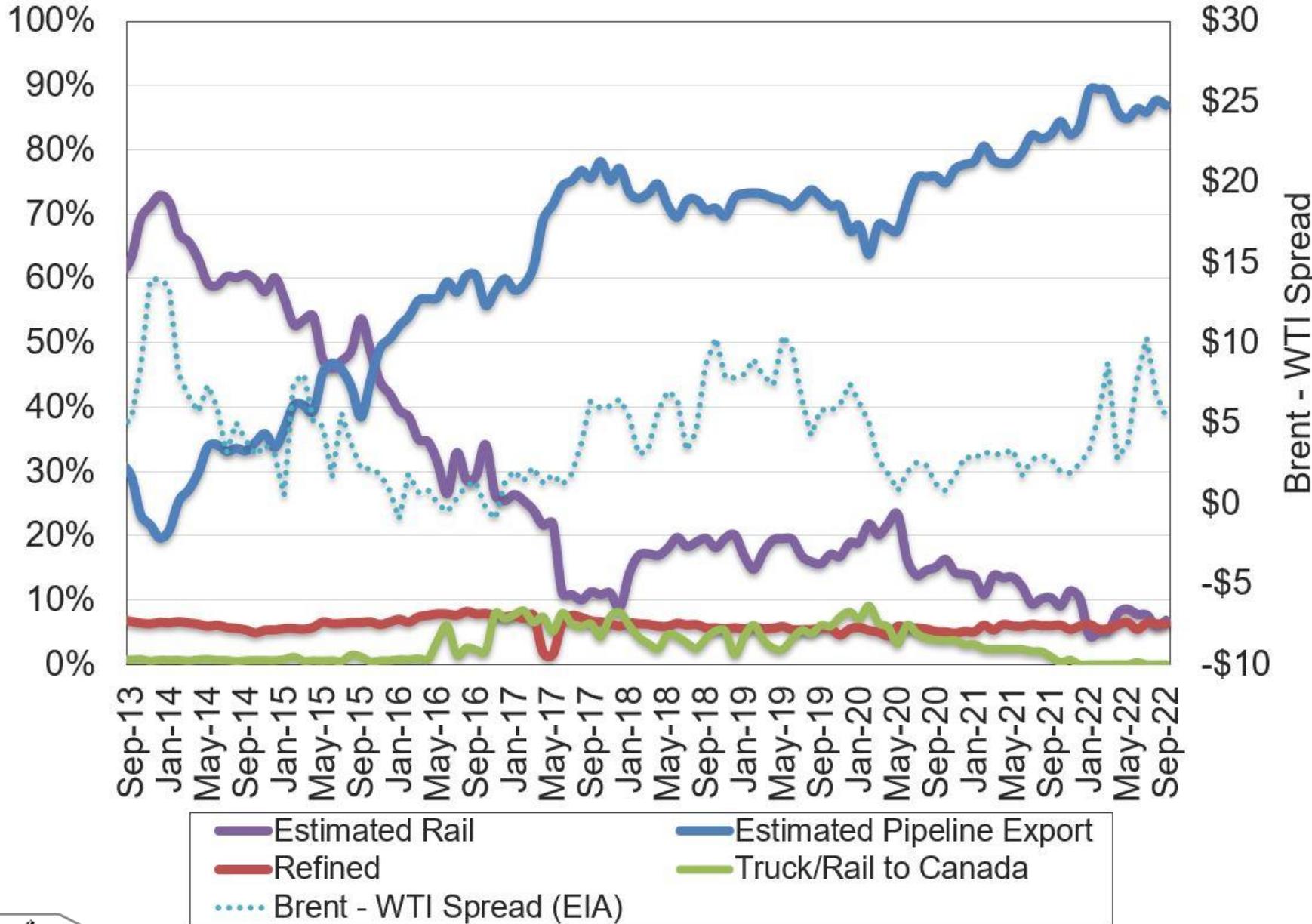
■ Refined

■ Estimated Rail

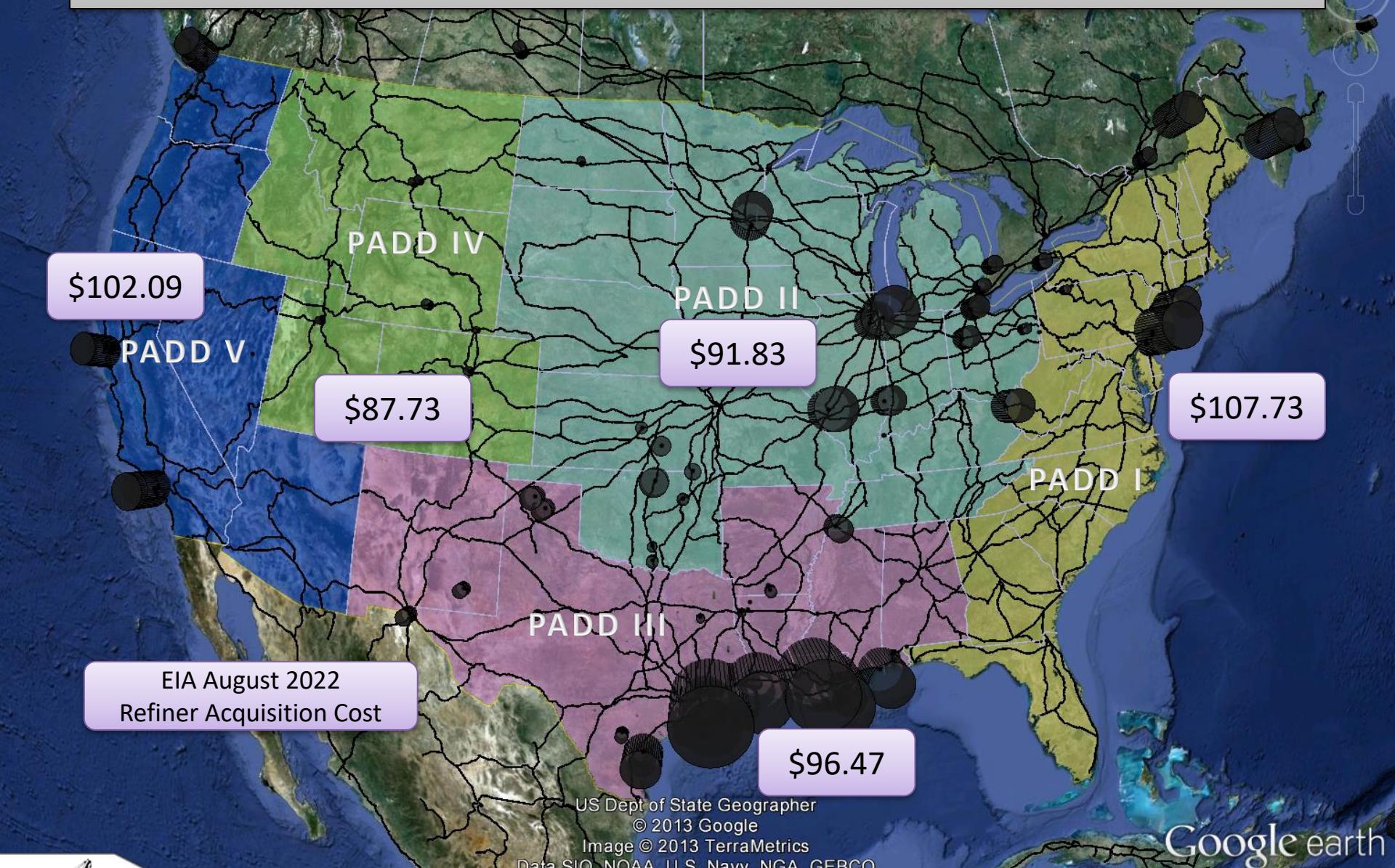
September 2022



Estimated Williston Basin Oil Transportation



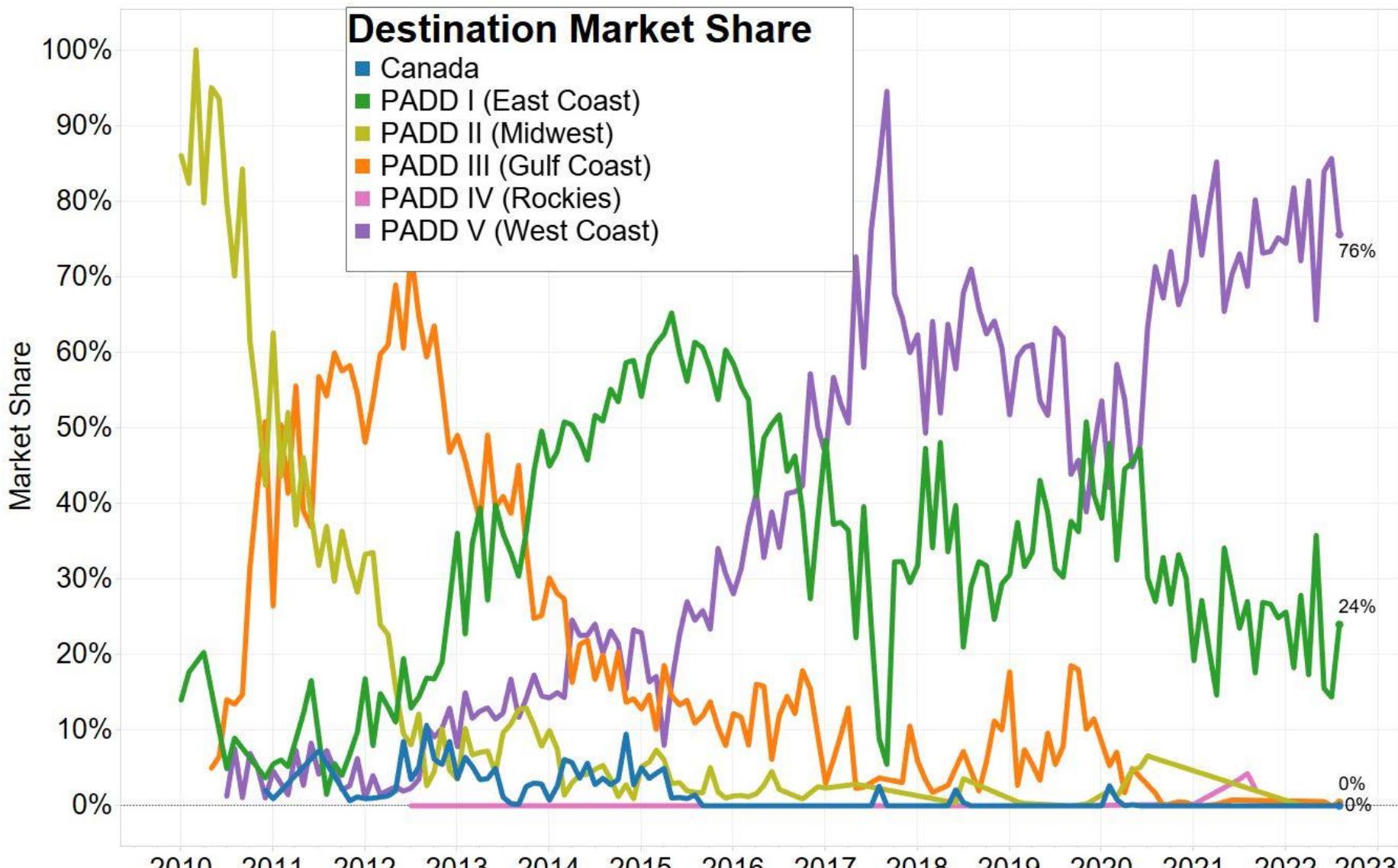
Major Rail Lines and Refineries



Estimated ND Rail Export Volumes



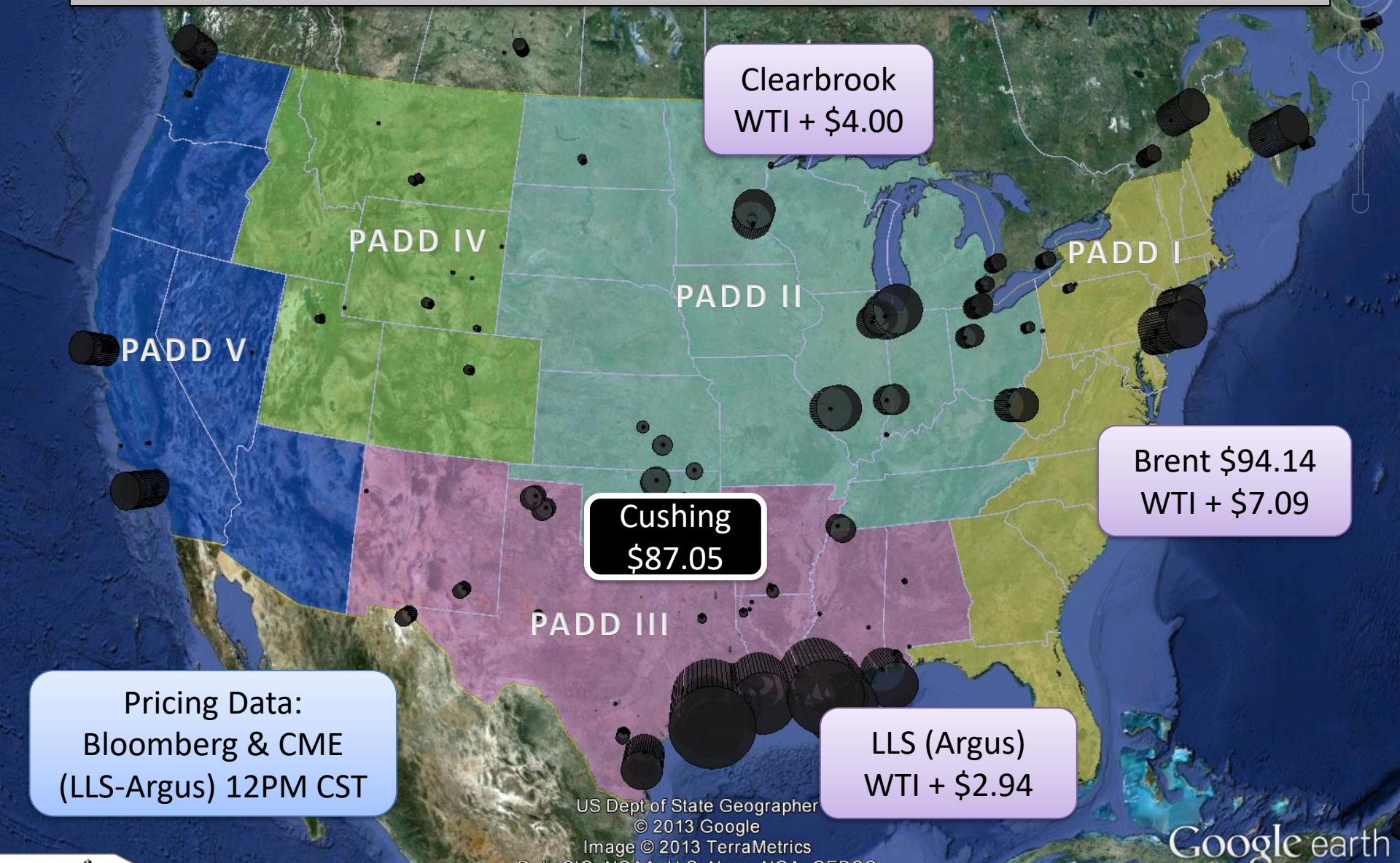
Rail Destinations Market Share (Aug. 2022)



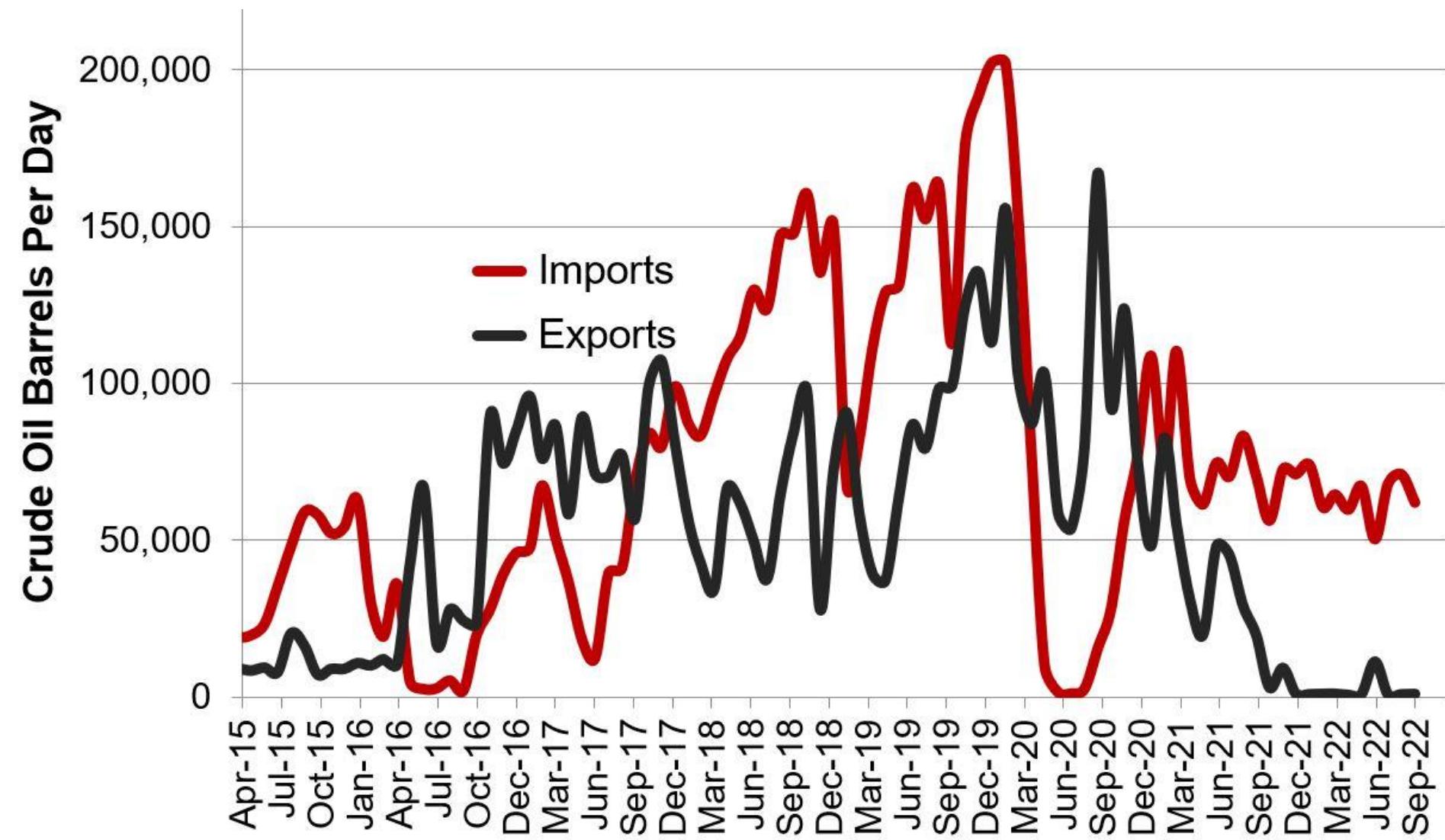
Data for Rail Destination Market Share Provided by the US Energy Information Administration



Crude Oil Prices – Nov. 15, 2022



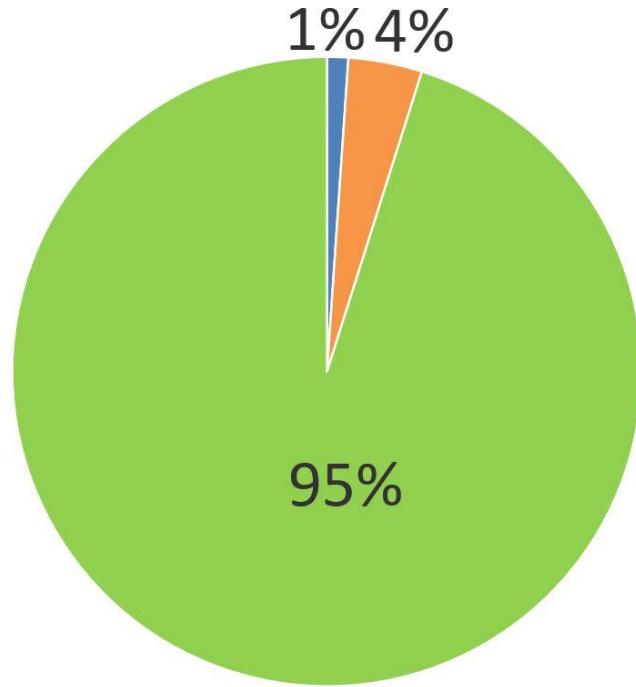
Williston Basin Truck/Rail Imports and Exports with Canada



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.

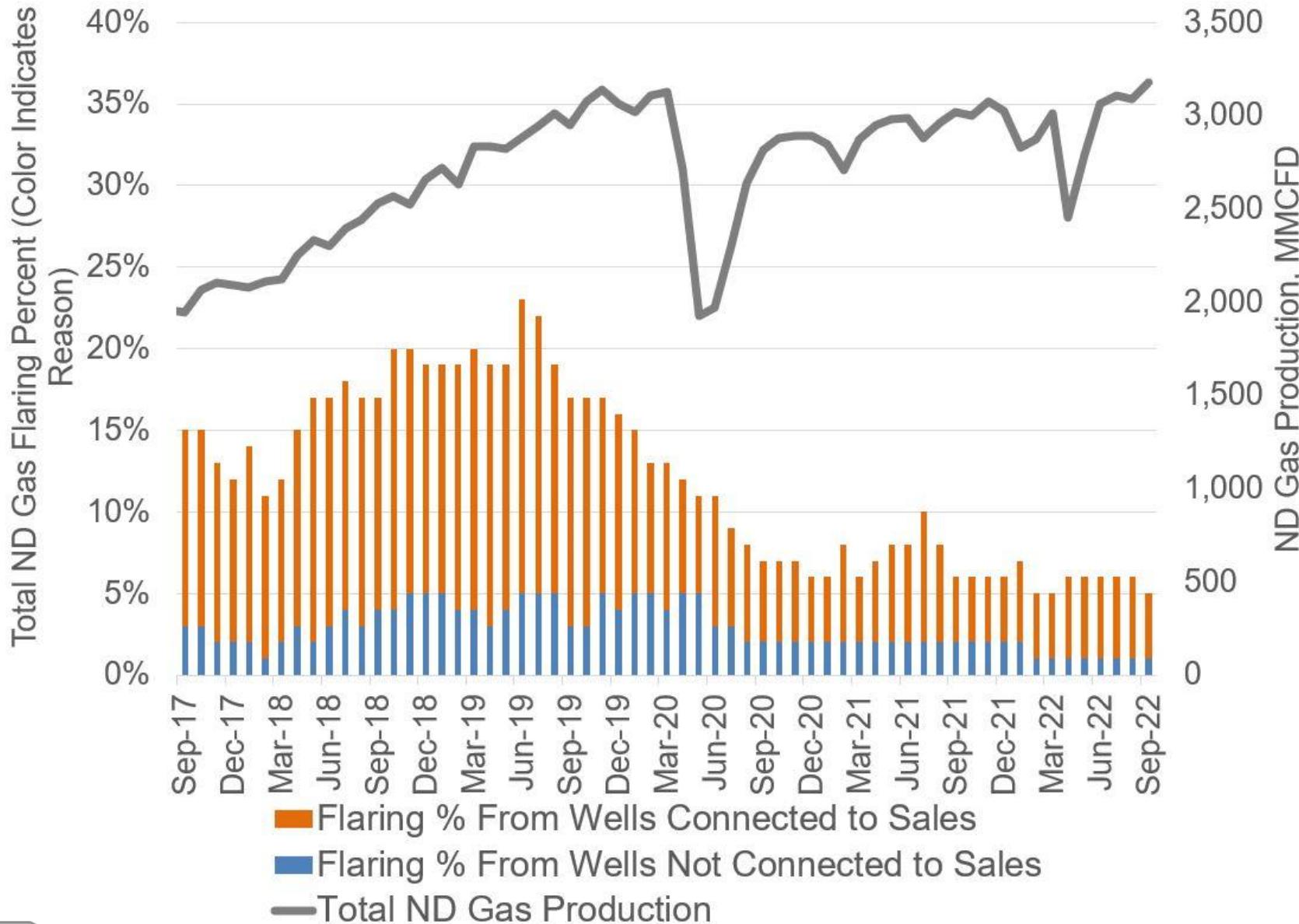
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

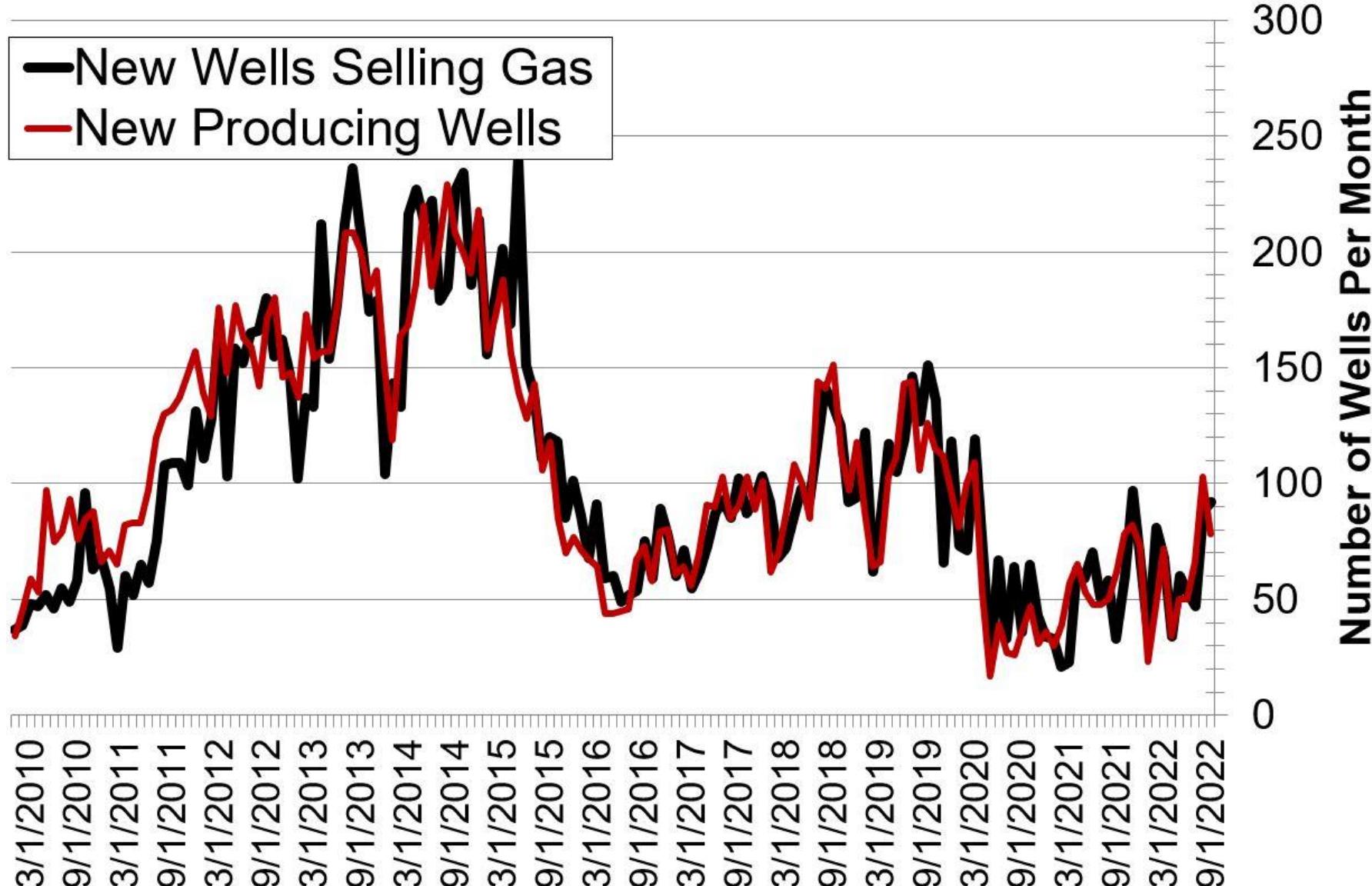
Sep. 2022 Data – Non-Confidential Wells



Solving the Flaring Challenge

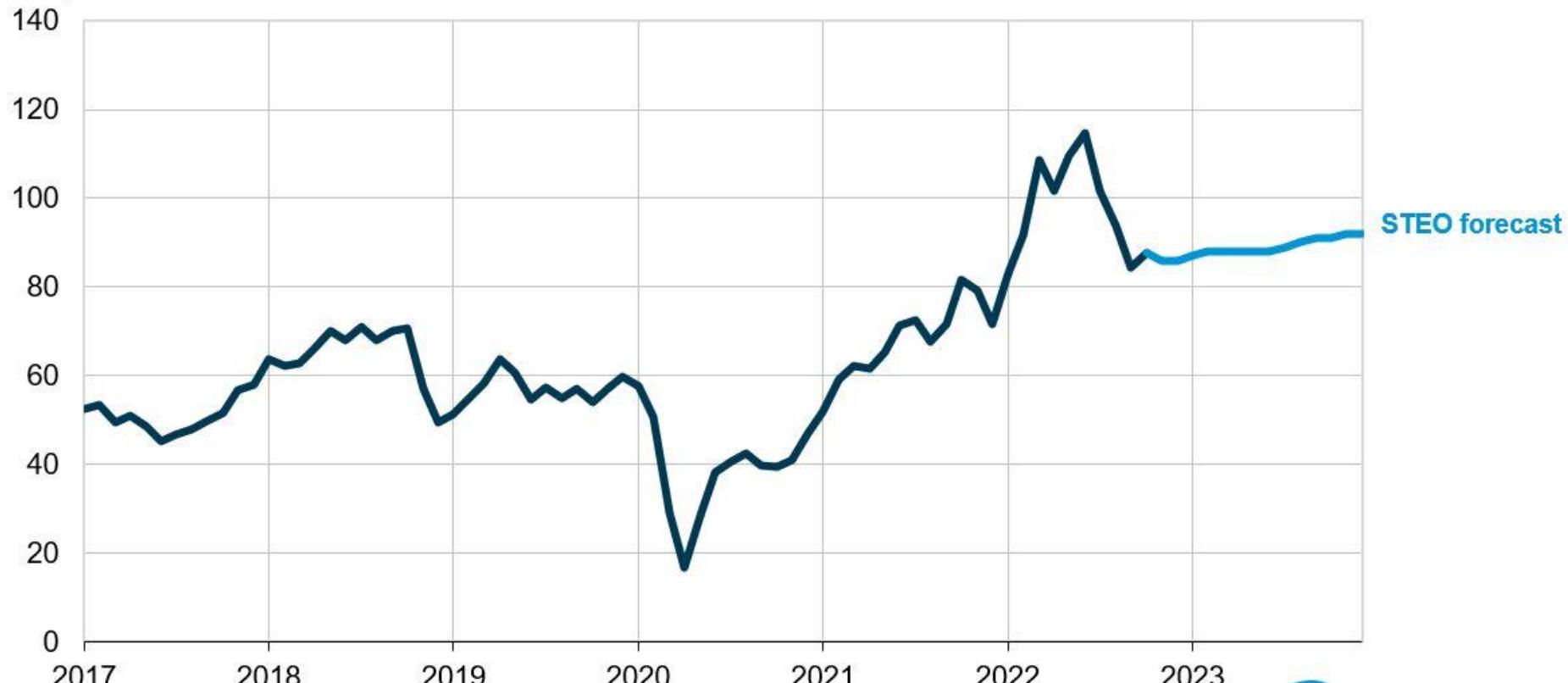


Solving the Flaring Challenge



EIA Oil Price Forecast: Nov. 2022

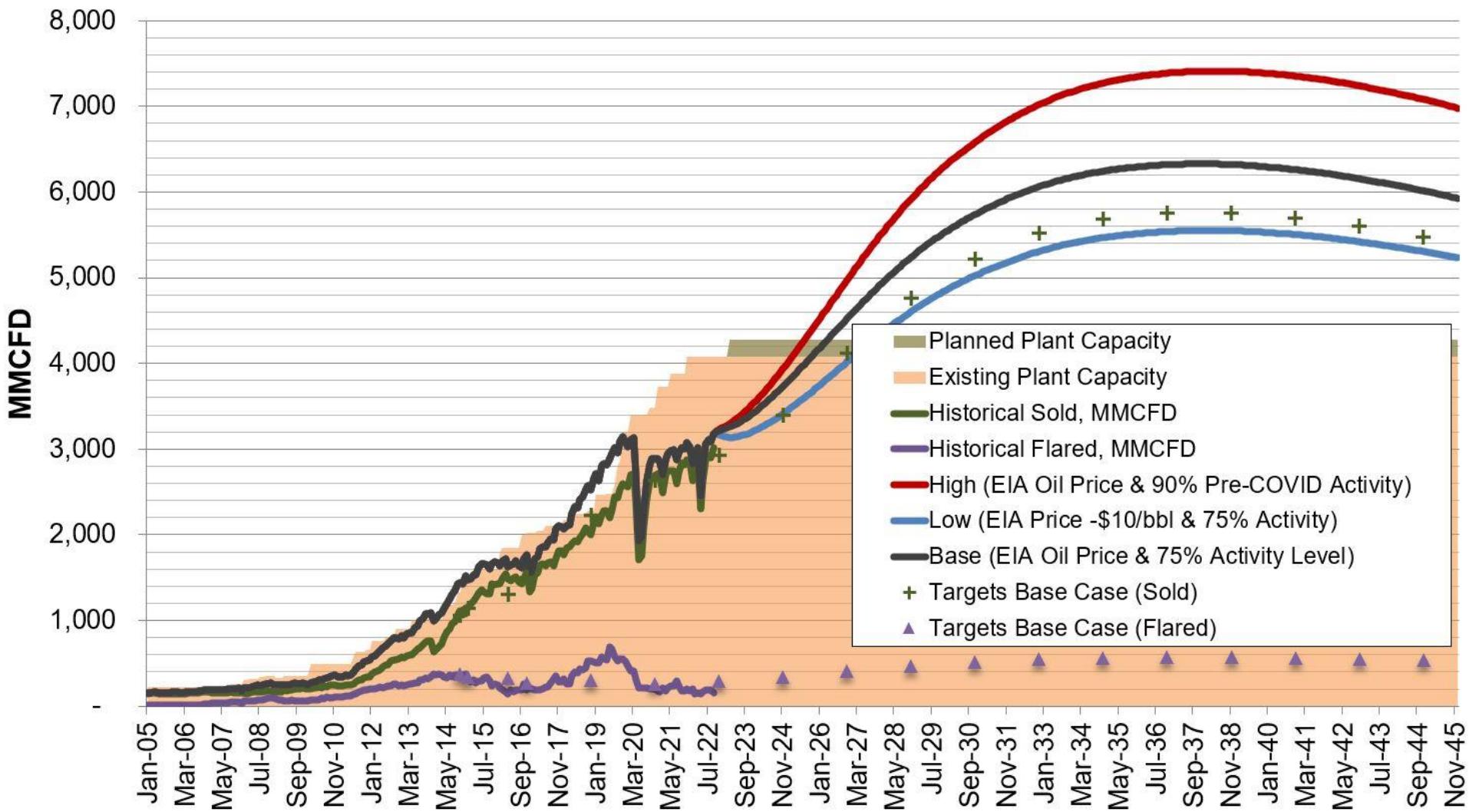
West Texas Intermediate (WTI) crude oil price and NYMEX confidence intervals
dollars per barrel



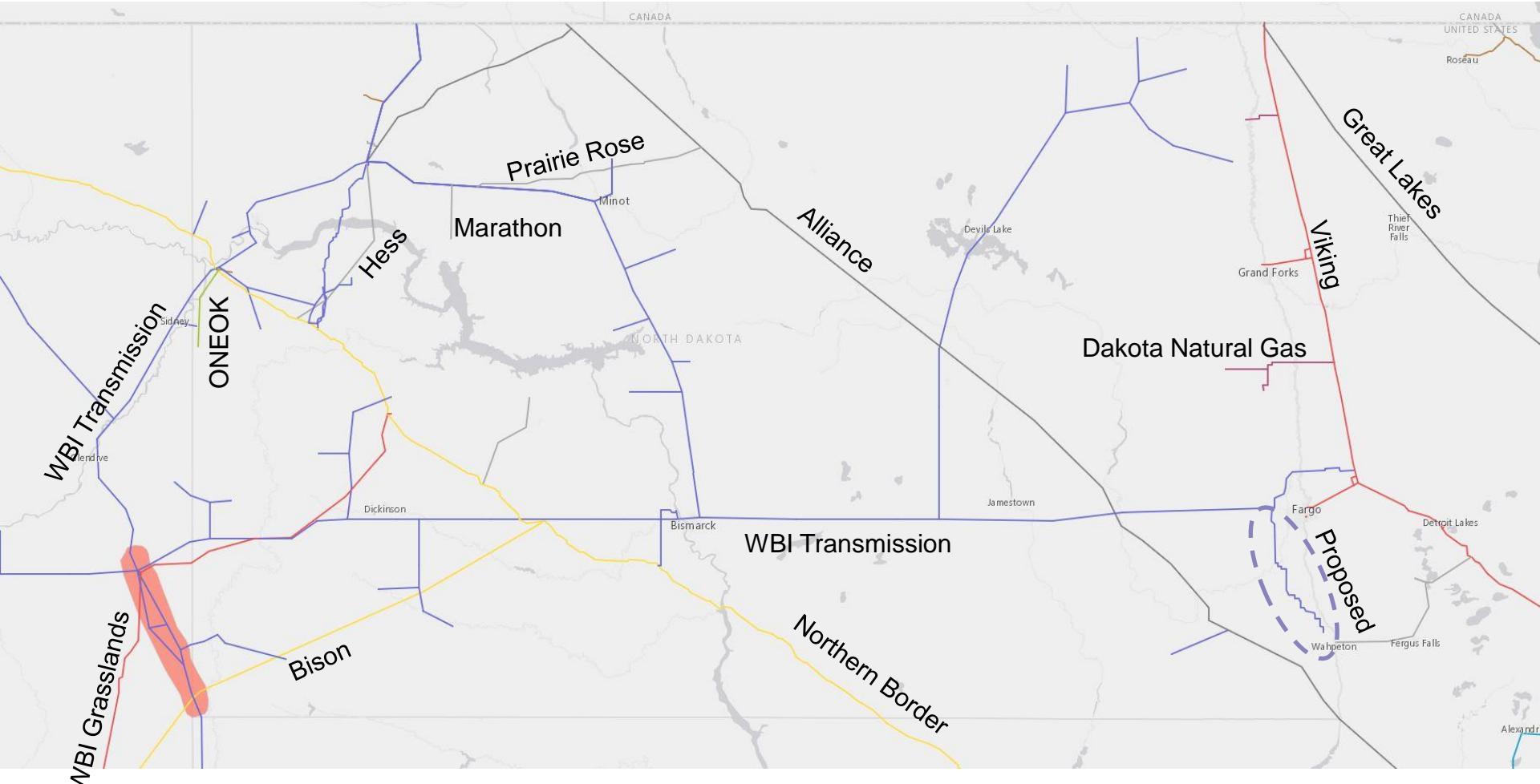
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, November 2022



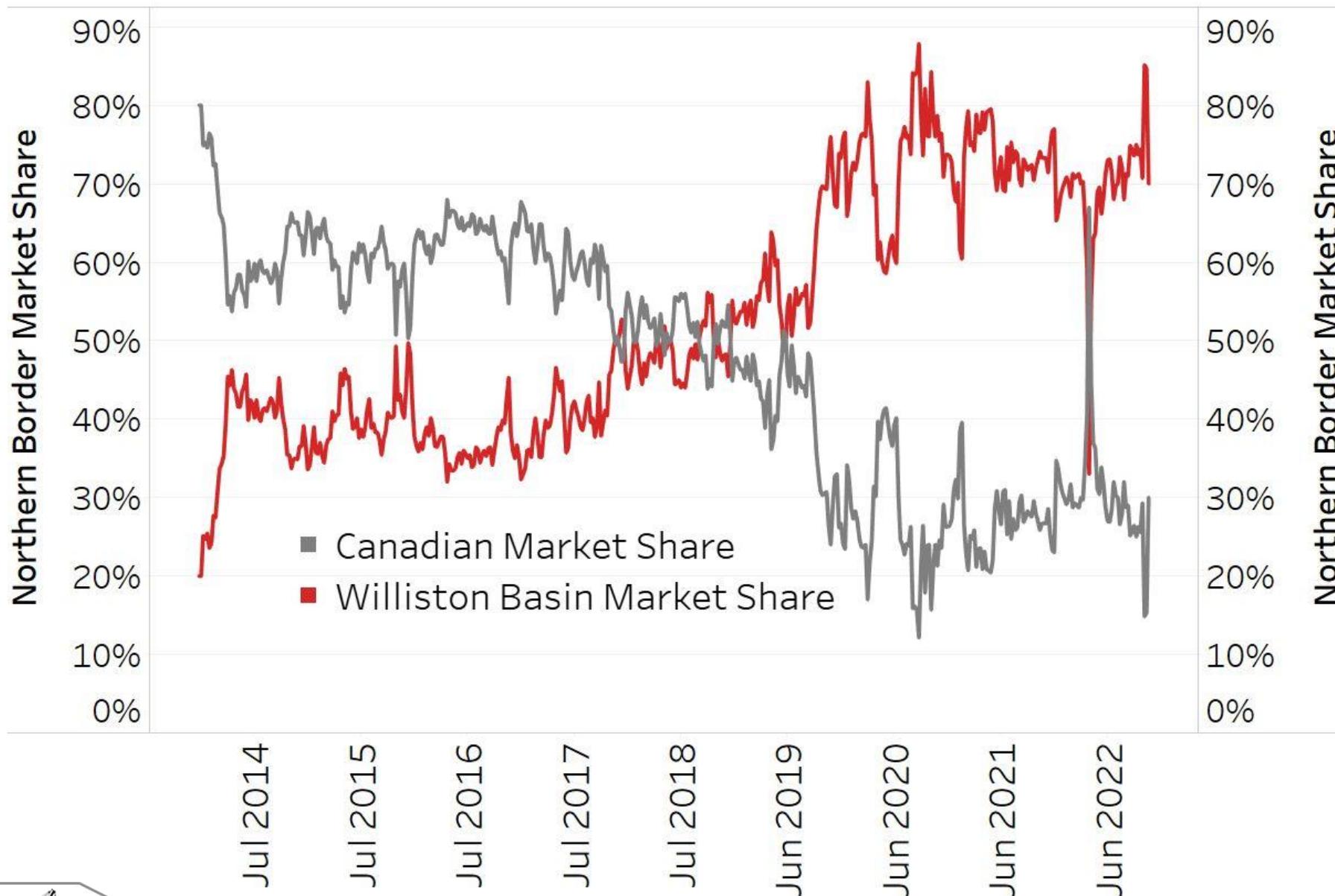
Solving the Flaring Challenge



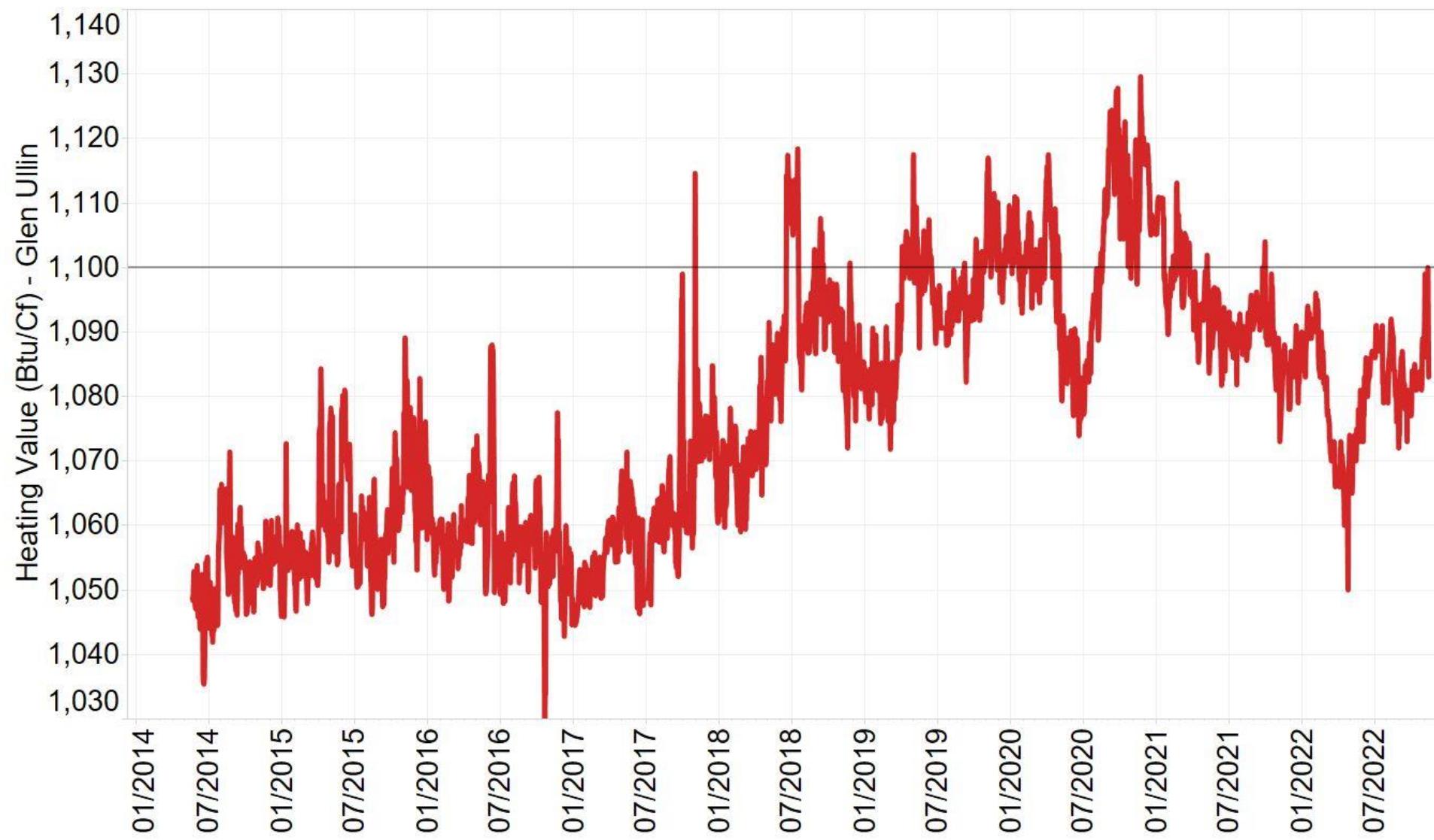
Bakken Natural Gas Infrastructure



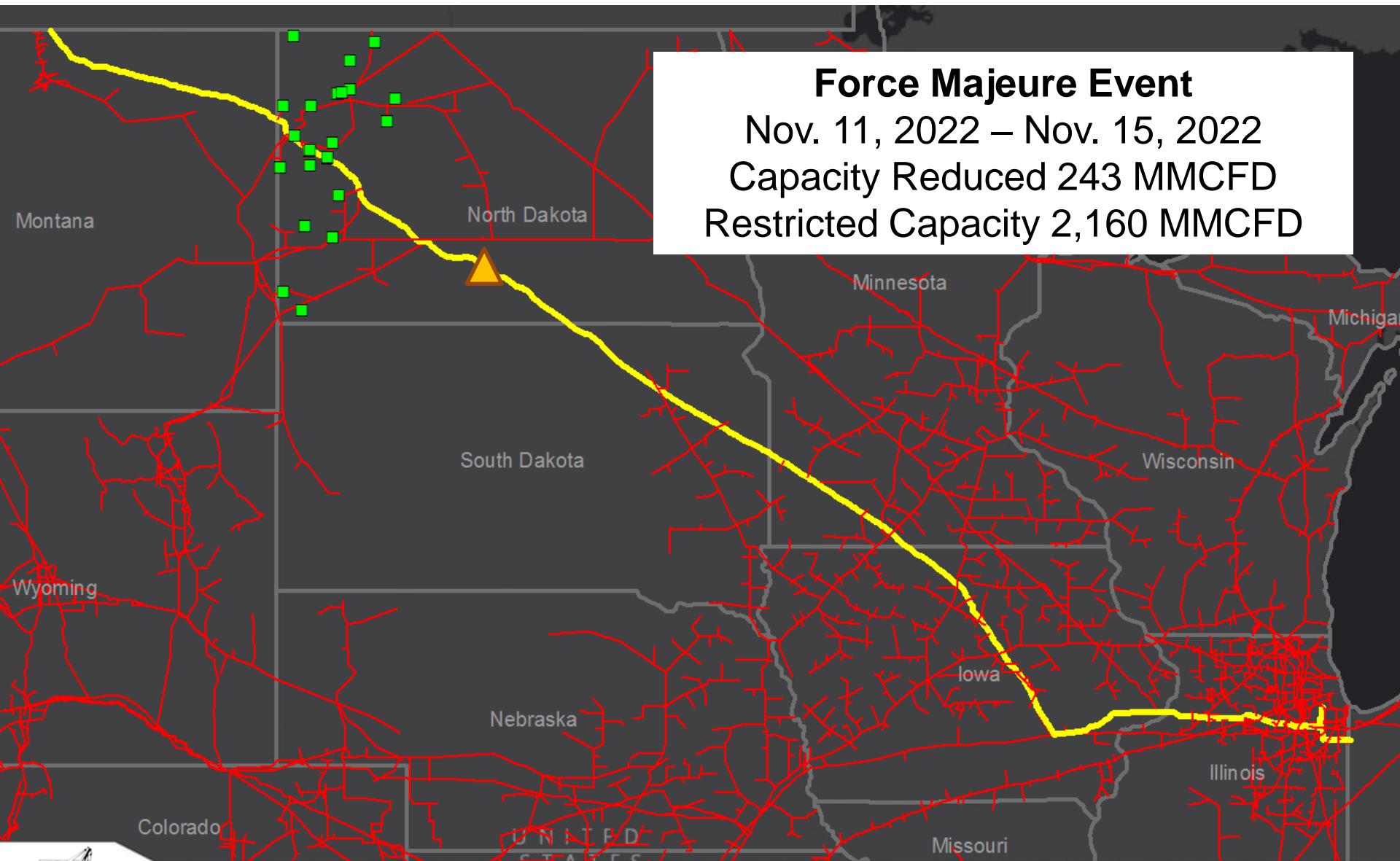
Northern Border Pipeline Market Share



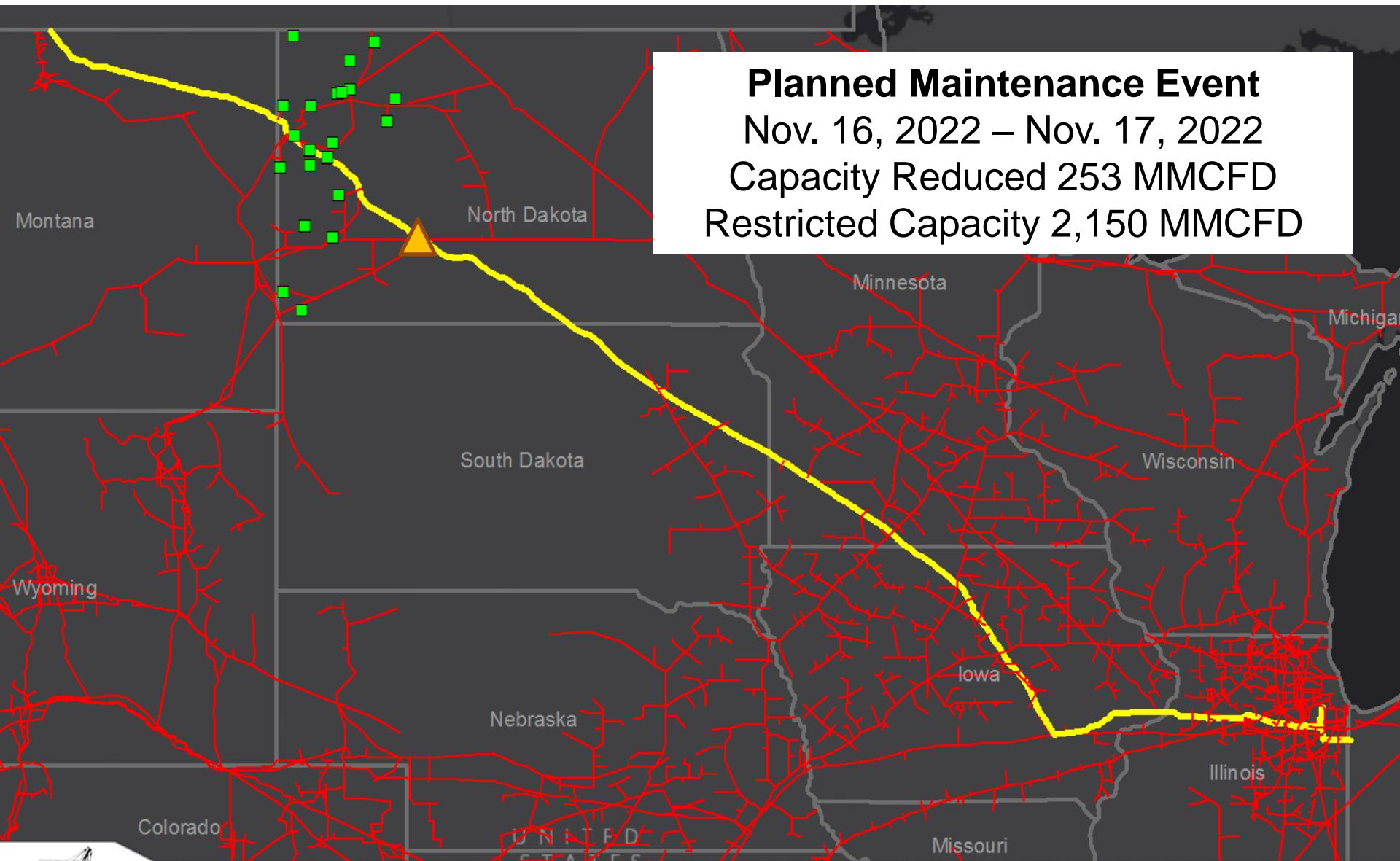
Northern Border BTU at Glen Ullin, ND



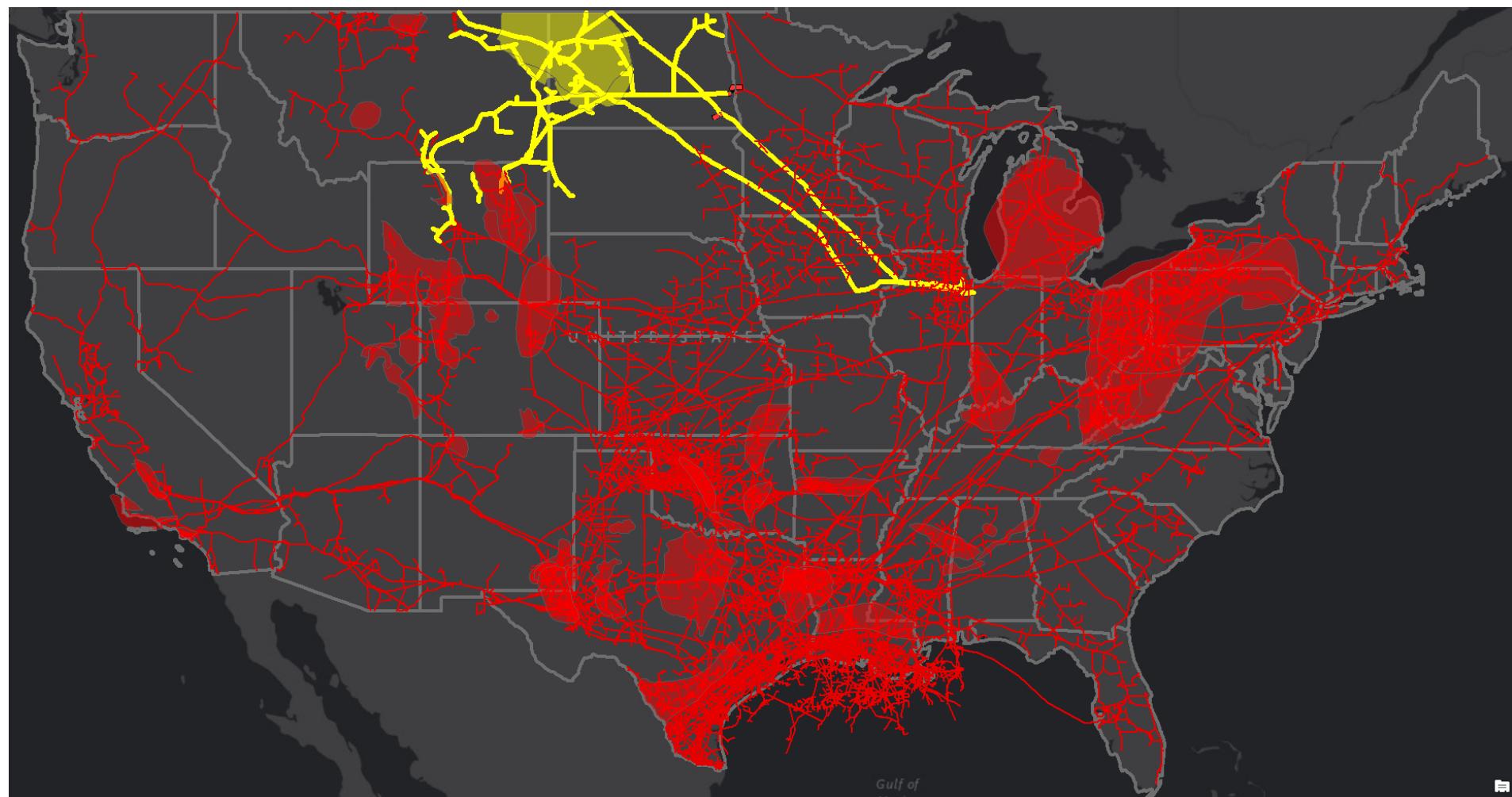
St. Anthony Compressor Outage



Glen Ullin, ND Maintenance



Bakken Natural Gas Infrastructure



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



JJ Kringstad - North Dakota Pipeline Authority

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