



March 2024 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
March 14, 2024

US Williston Basin Oil Production - 2024

MONTH	ND	Eastern MT*	SD	TOTAL
January	1,102,506			
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

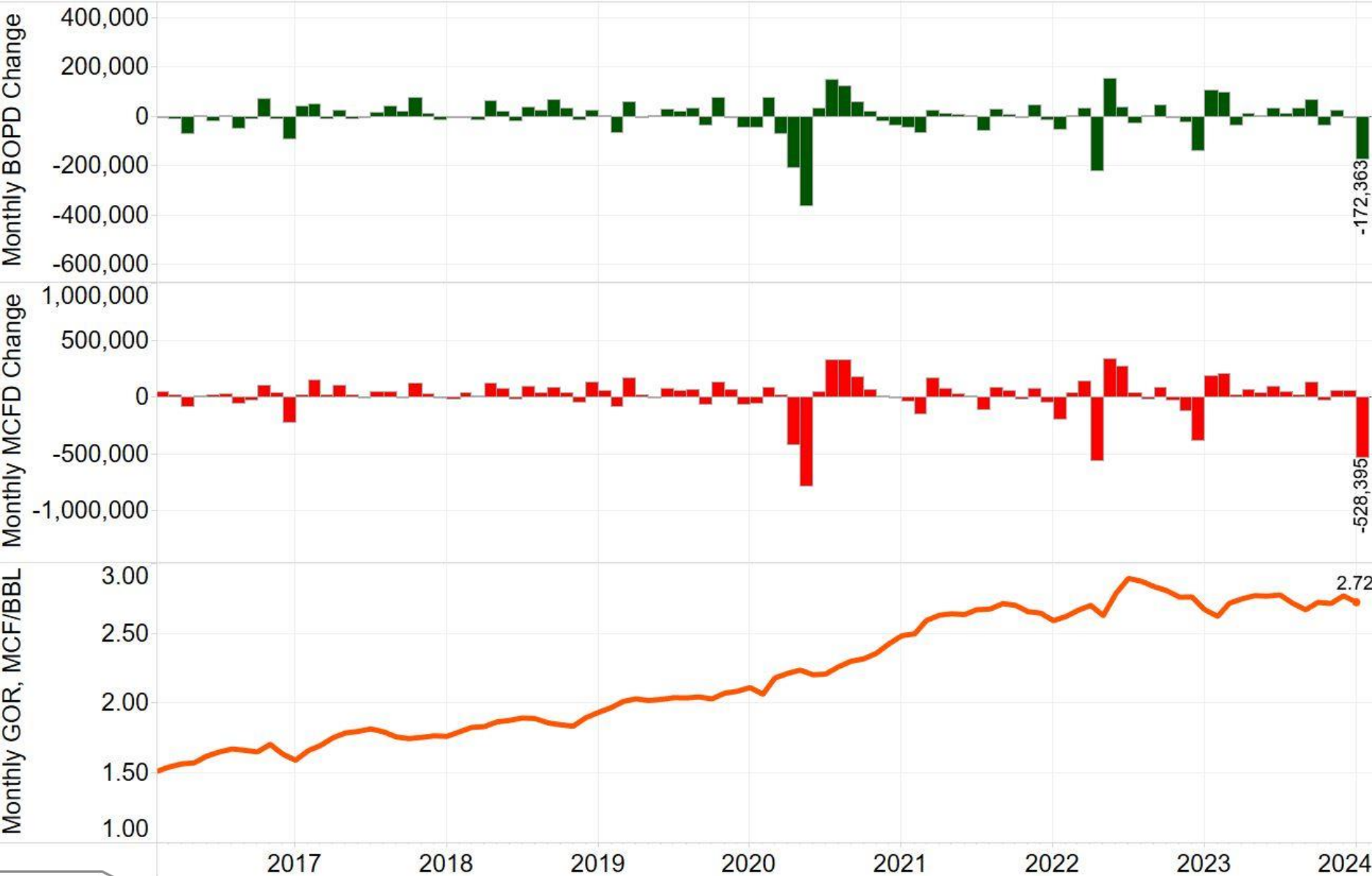


US Williston Basin Oil Production - 2023

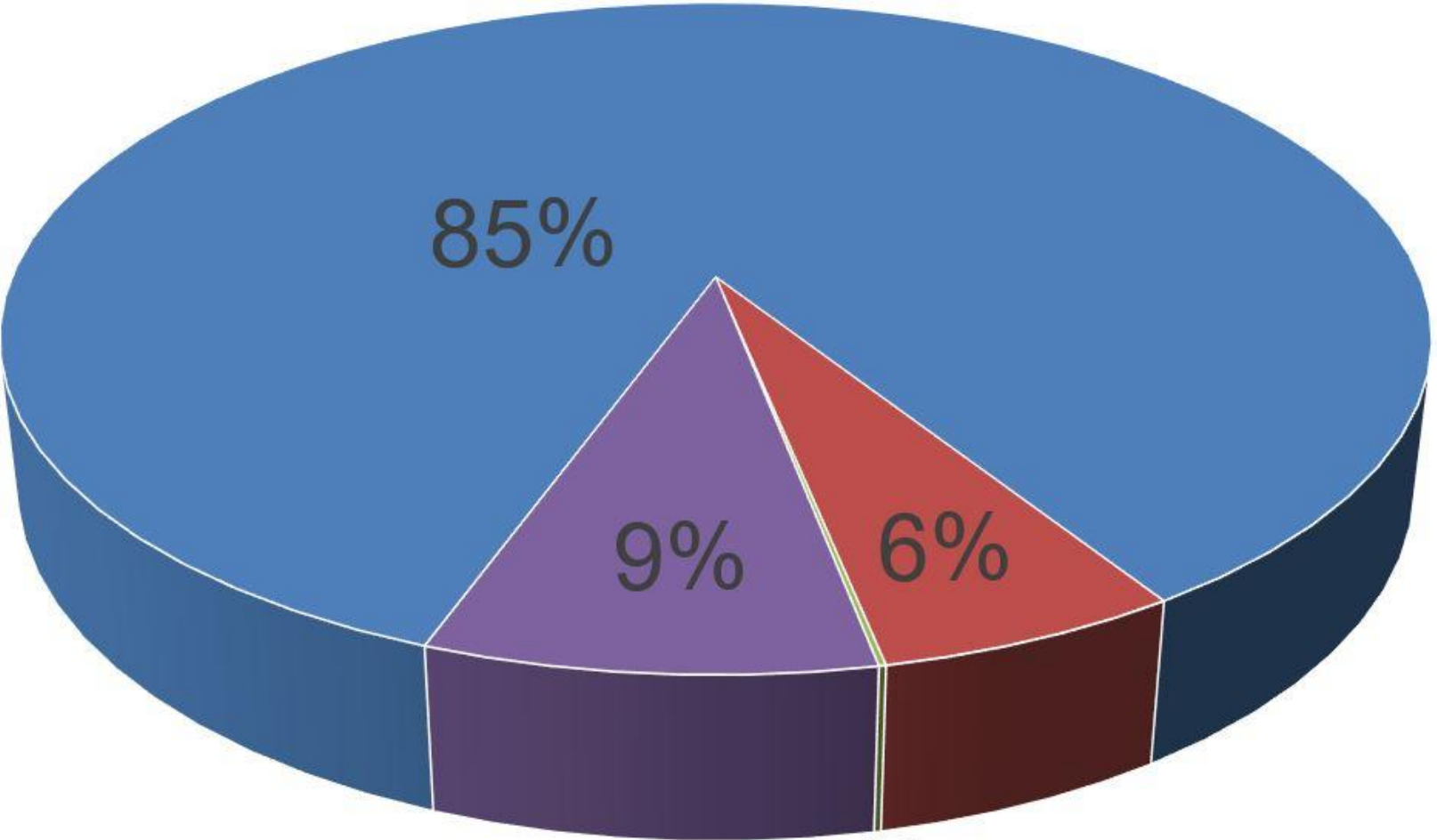
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,062,880	62,114	2,610	1,127,604
February	1,159,030	63,553	2,475	1,225,058
March	1,124,899	64,593	2,652	1,192,144
April	1,135,850	61,932	2,557	1,200,339
May	1,140,209	61,279	2,560	1,204,048
June	1,174,388	59,707	2,275	1,236,370
July	1,186,759	56,865	2,311	1,245,935
August	1,220,772	62,197	2,540	1,285,510
September	1,290,103	62,753	2,504	1,355,361
October	1,255,227	62,277	2,452	1,319,956
November	1,278,909	62,291	2,448	1,343,649
December	1,274,869			



North Dakota Monthly Production Change



Estimated Williston Basin Oil Transportation



■ Pipeline Export

0%

■ Refined

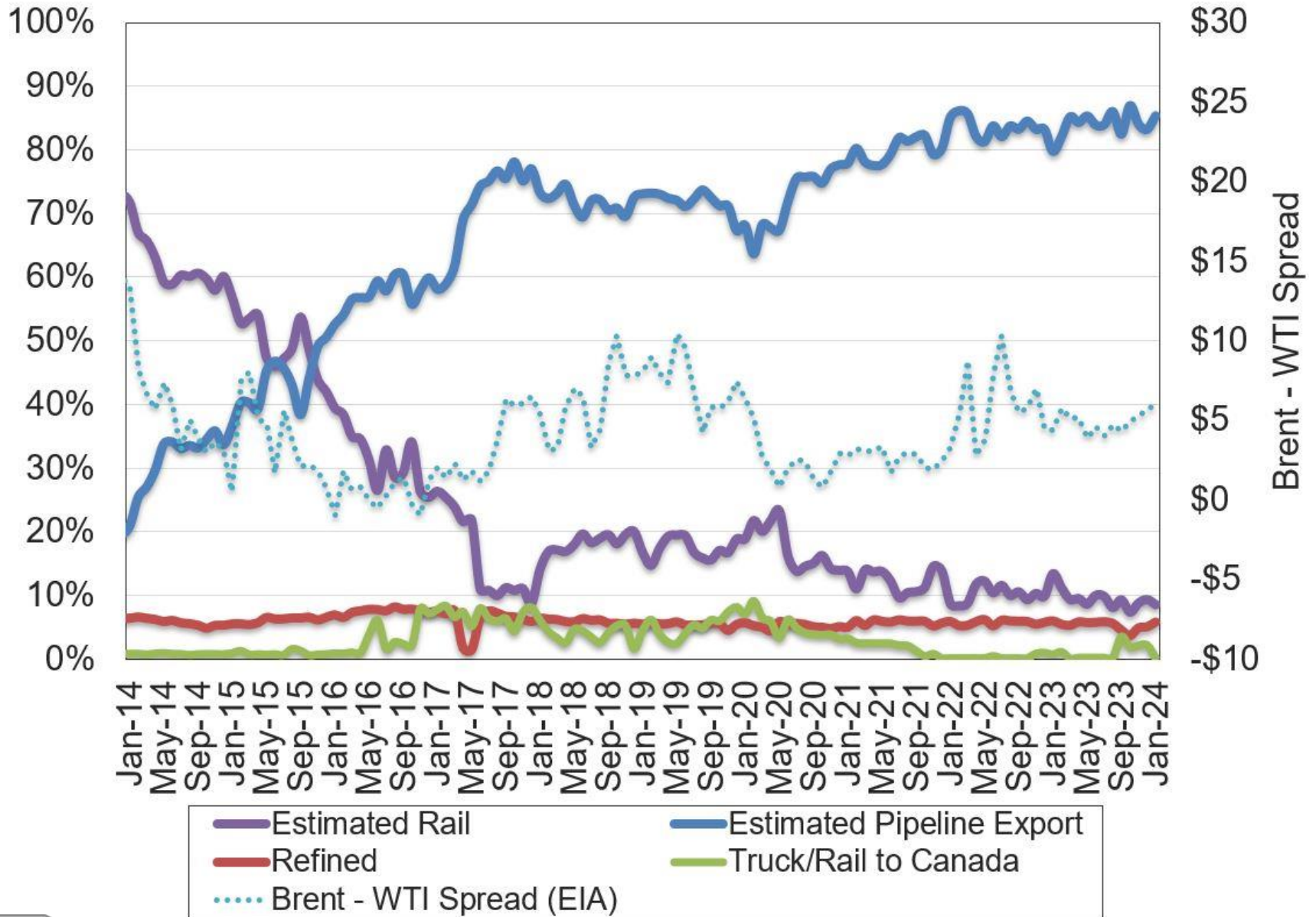
■ Truck/Rail to Canada

■ Estimated Rail

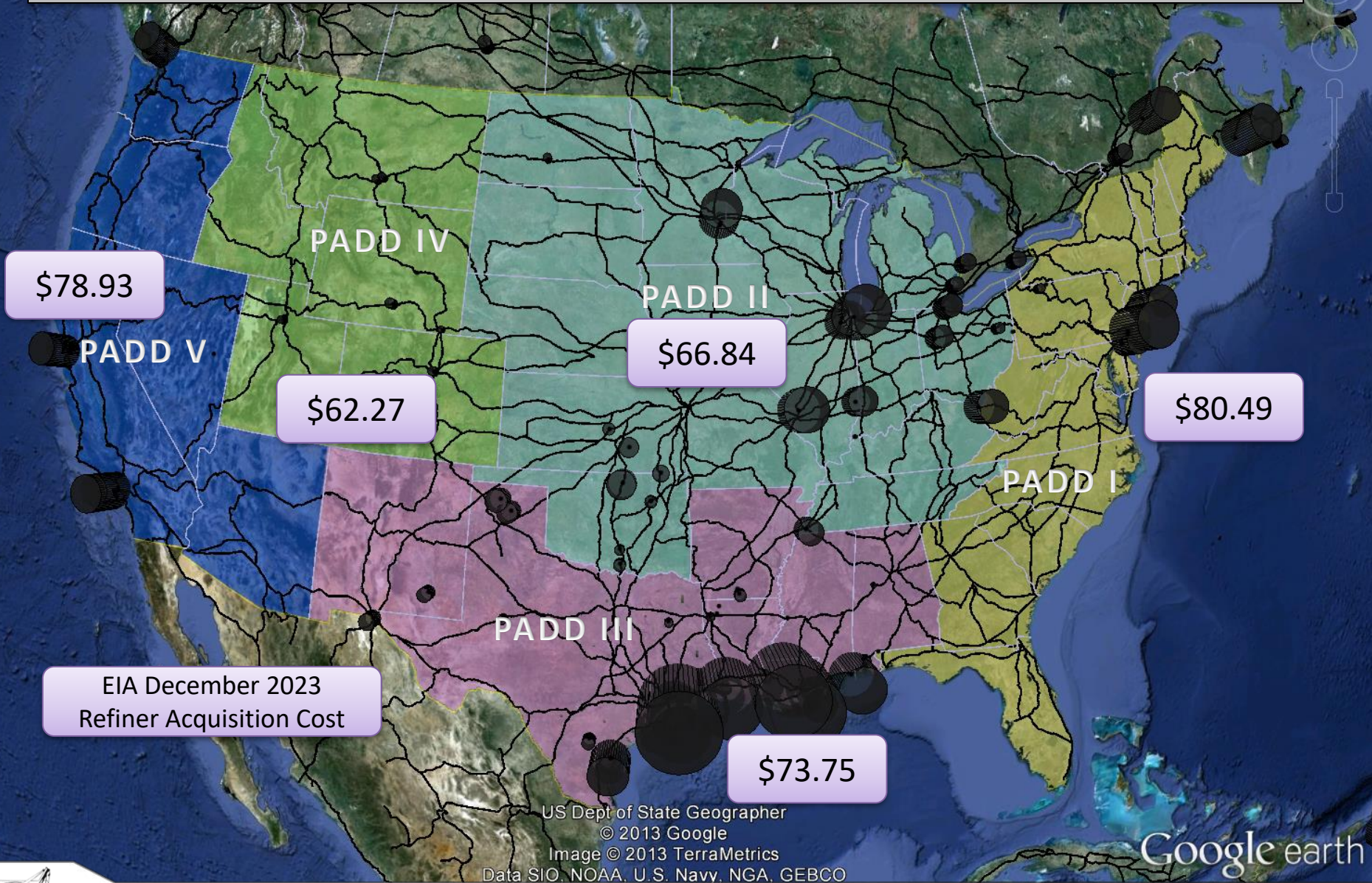
January 2024



Estimated Williston Basin Oil Transportation



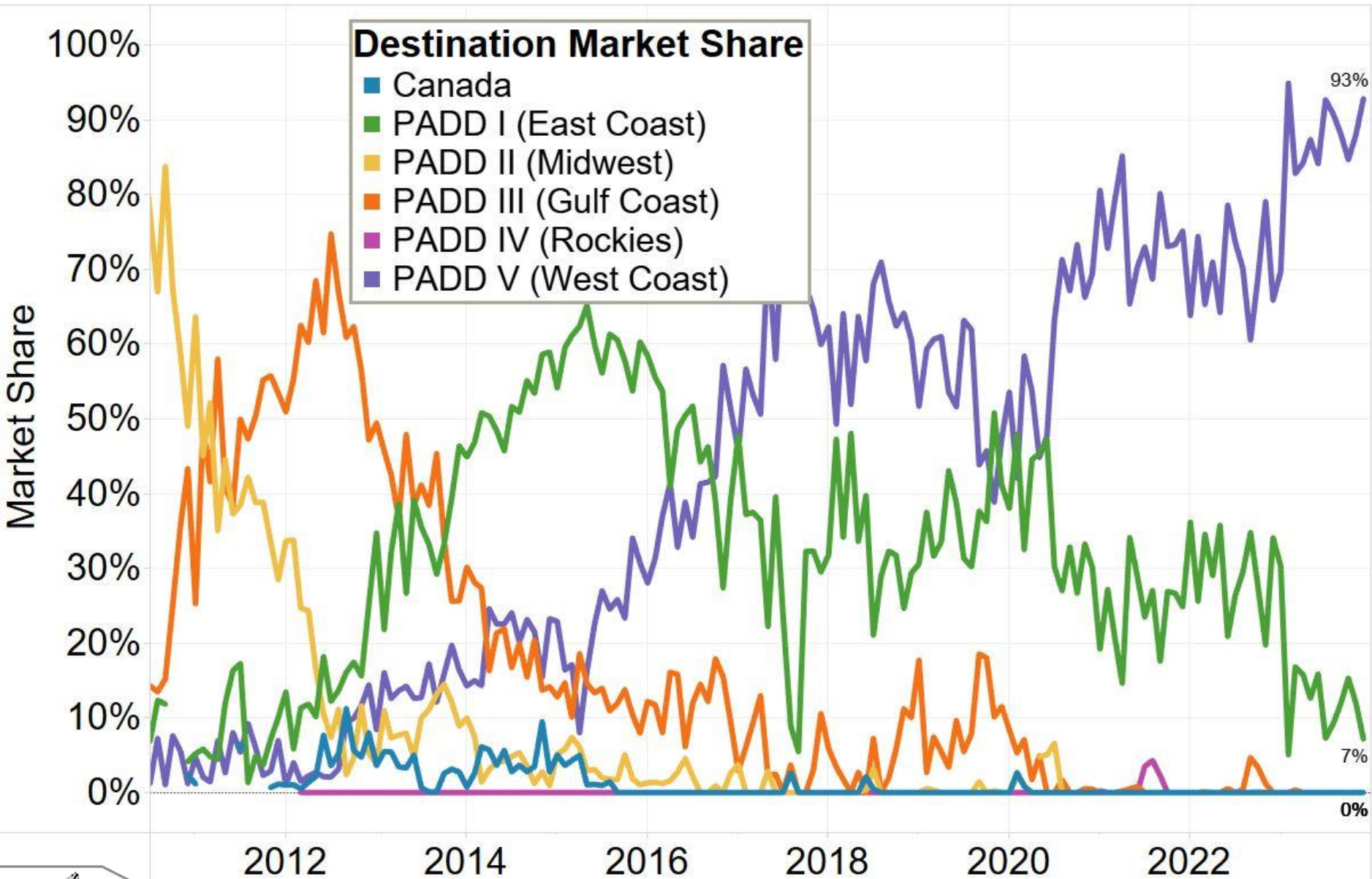
Major Rail Lines and Refineries



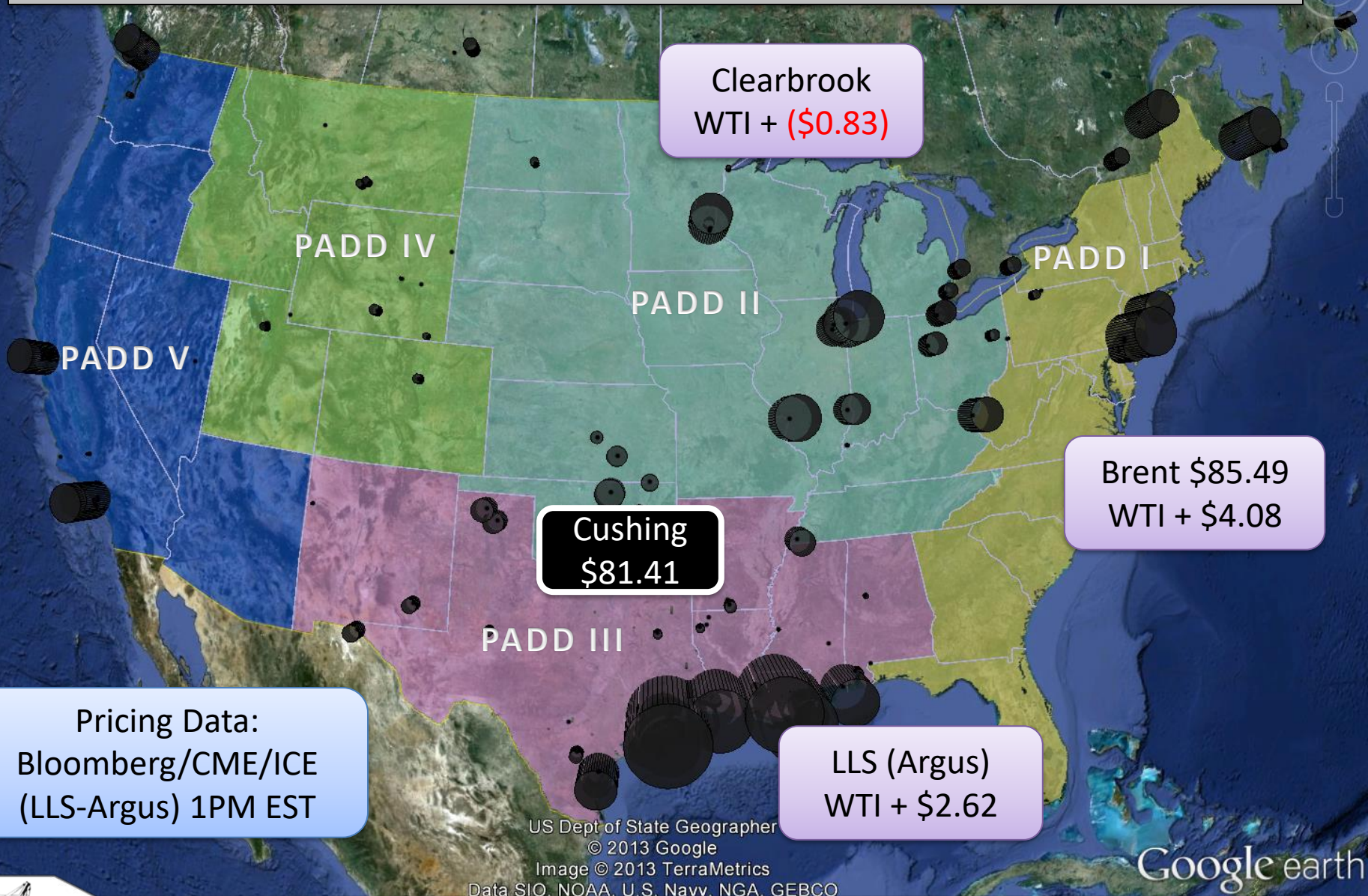
Estimated ND Rail Export Volumes



Rail Destinations Market Share (Dec. 2023)



Crude Oil Prices – Mar. 14, 2024



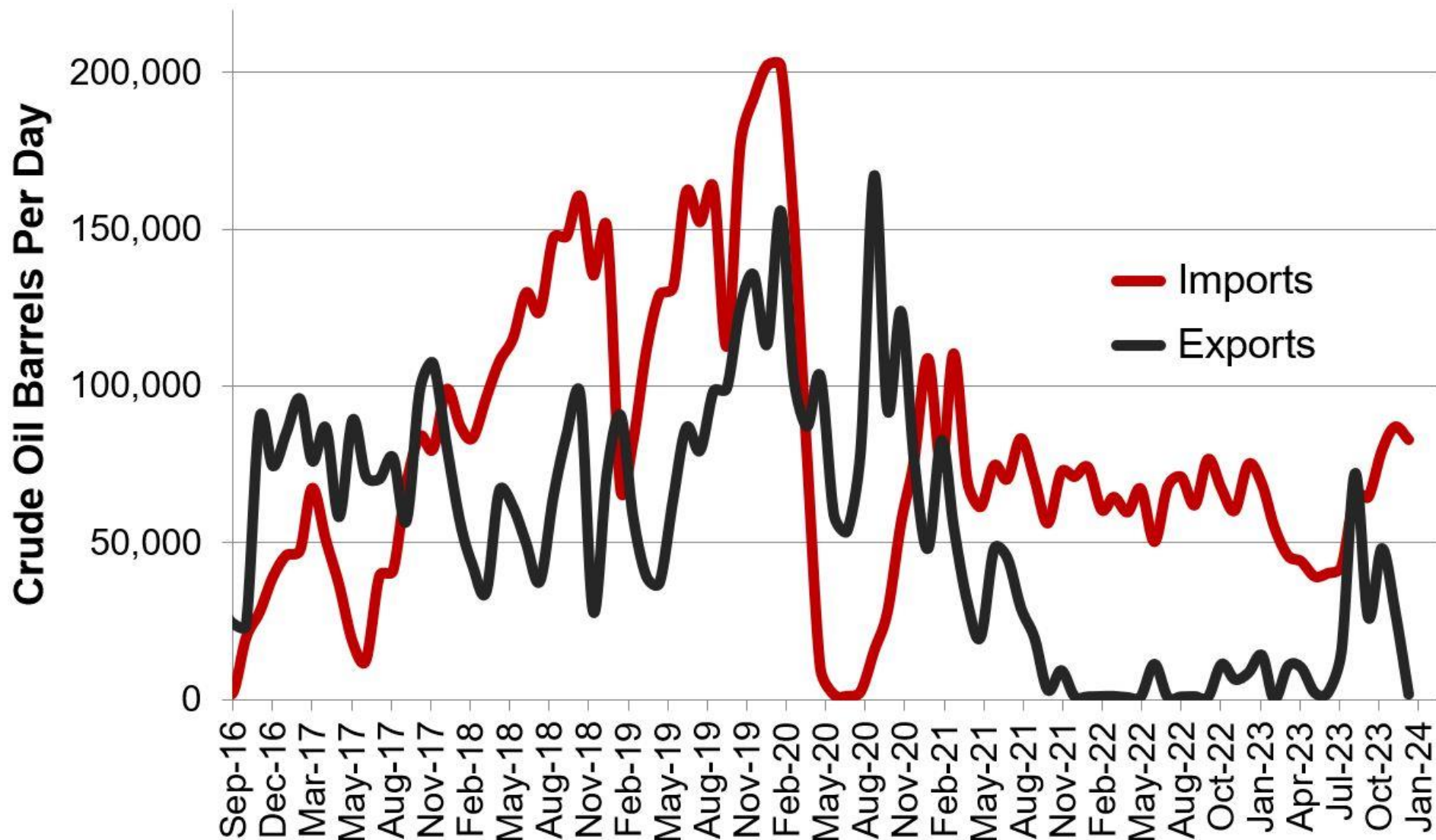
Pricing Data:
Bloomberg/CME/ICE
(LLS-Argus) 1PM EST

US Dept of State Geographer
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Data SIO, NOAA, U.S. Navv, NGA, GEBCO

Google earth



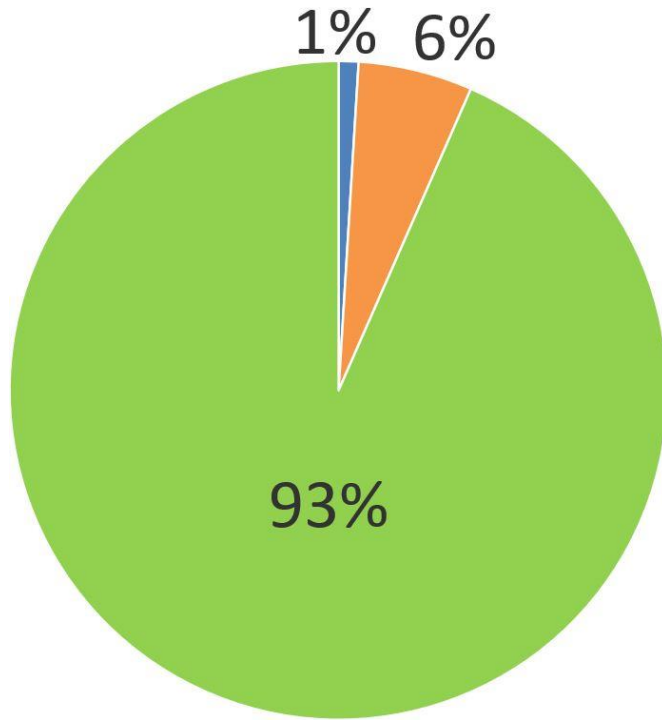
Williston Basin Truck/Rail Imports and Exports with Canada



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

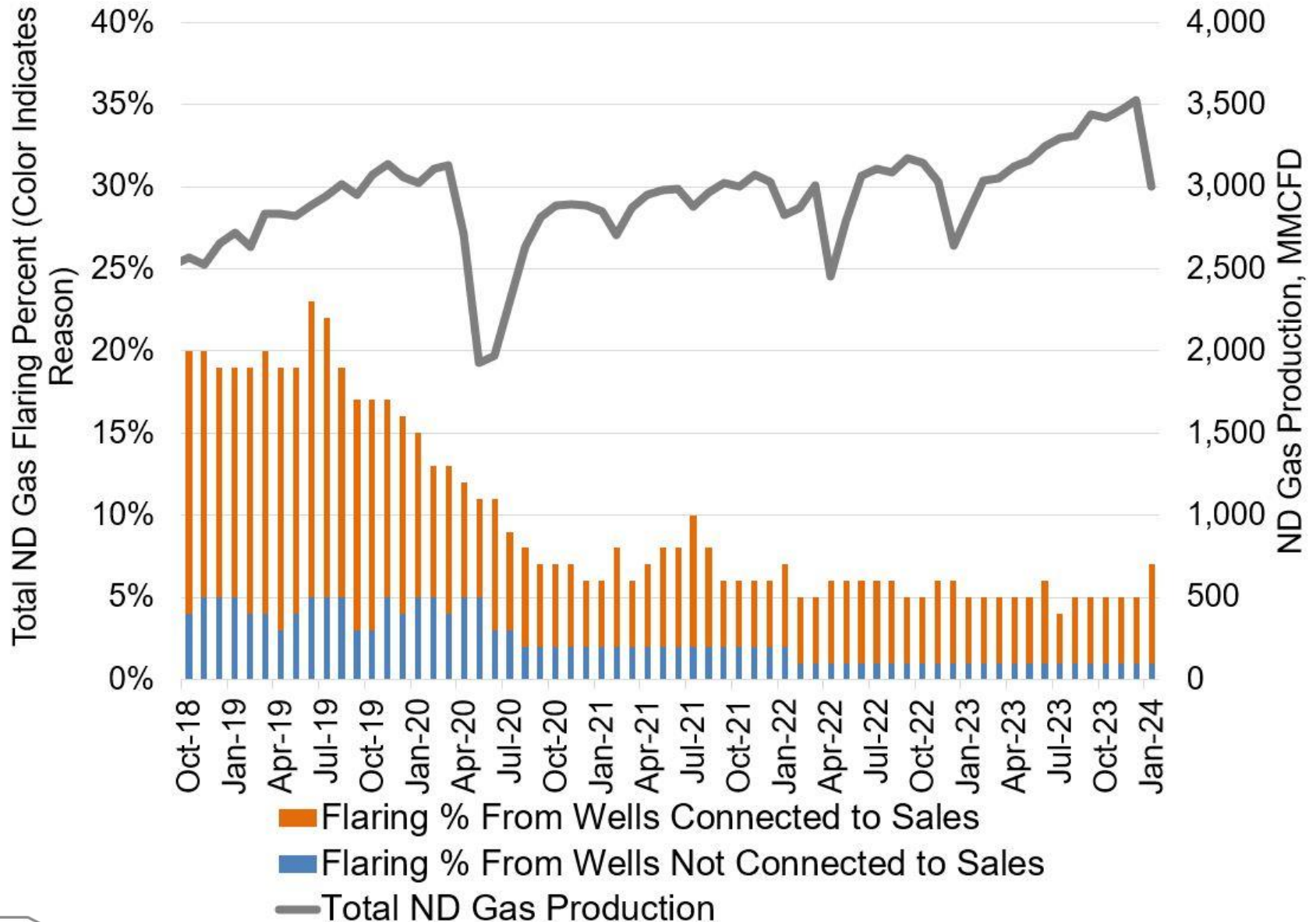
Blue – Lack of pipelines

Orange – Challenges on existing infrastructure

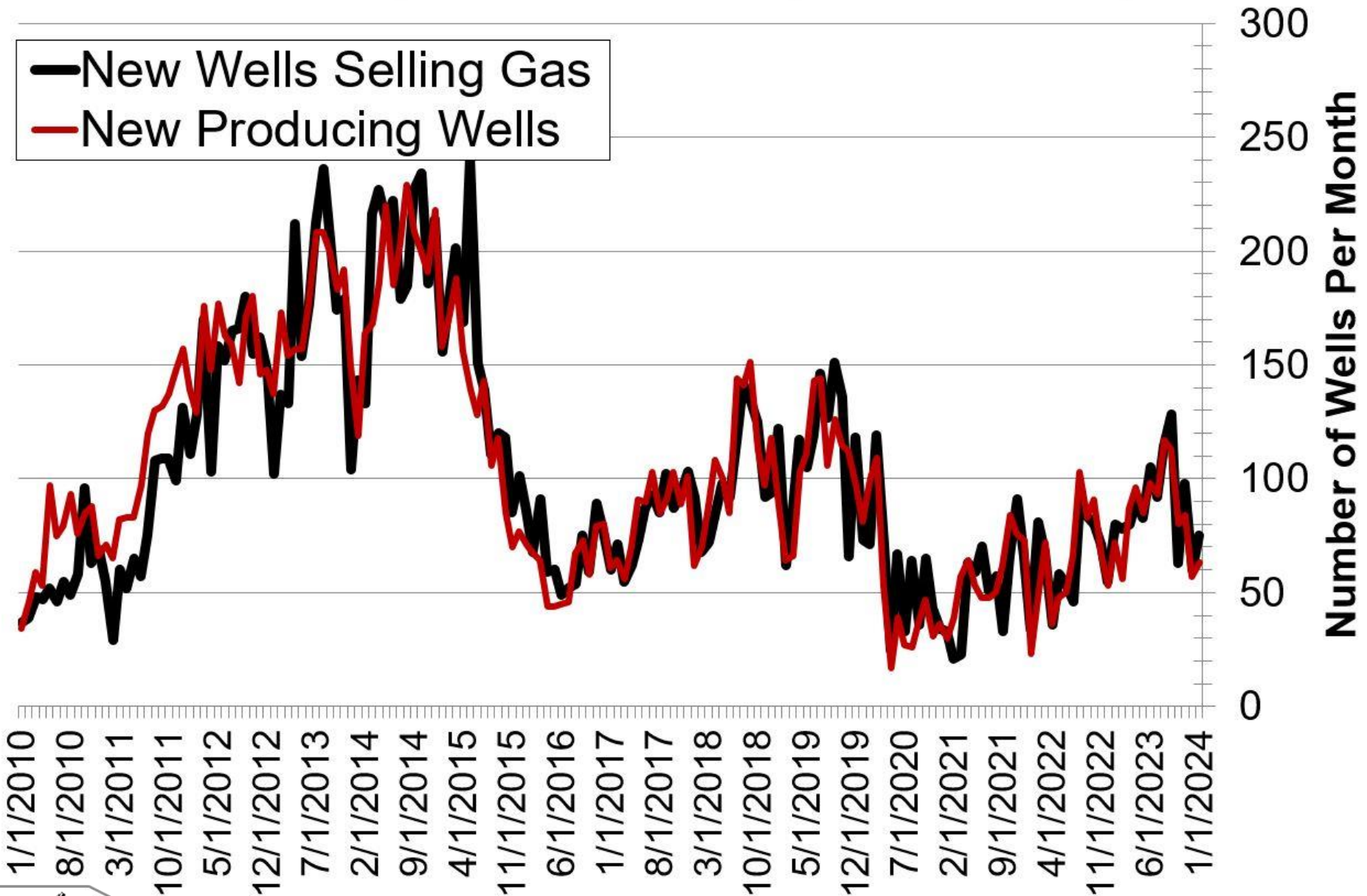
Jan. 2024 Data – Non-Confidential Wells



Solving the Flaring Challenge

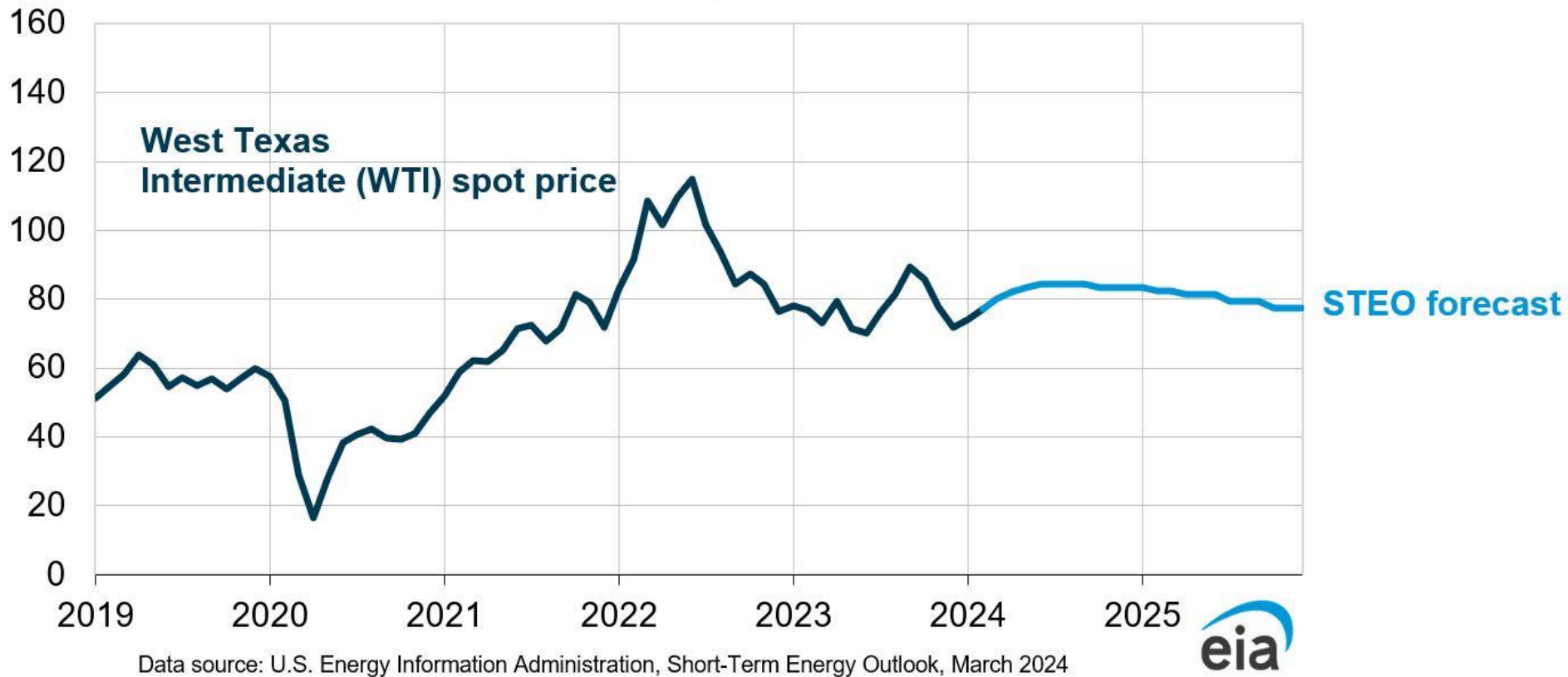


Solving the Flaring Challenge

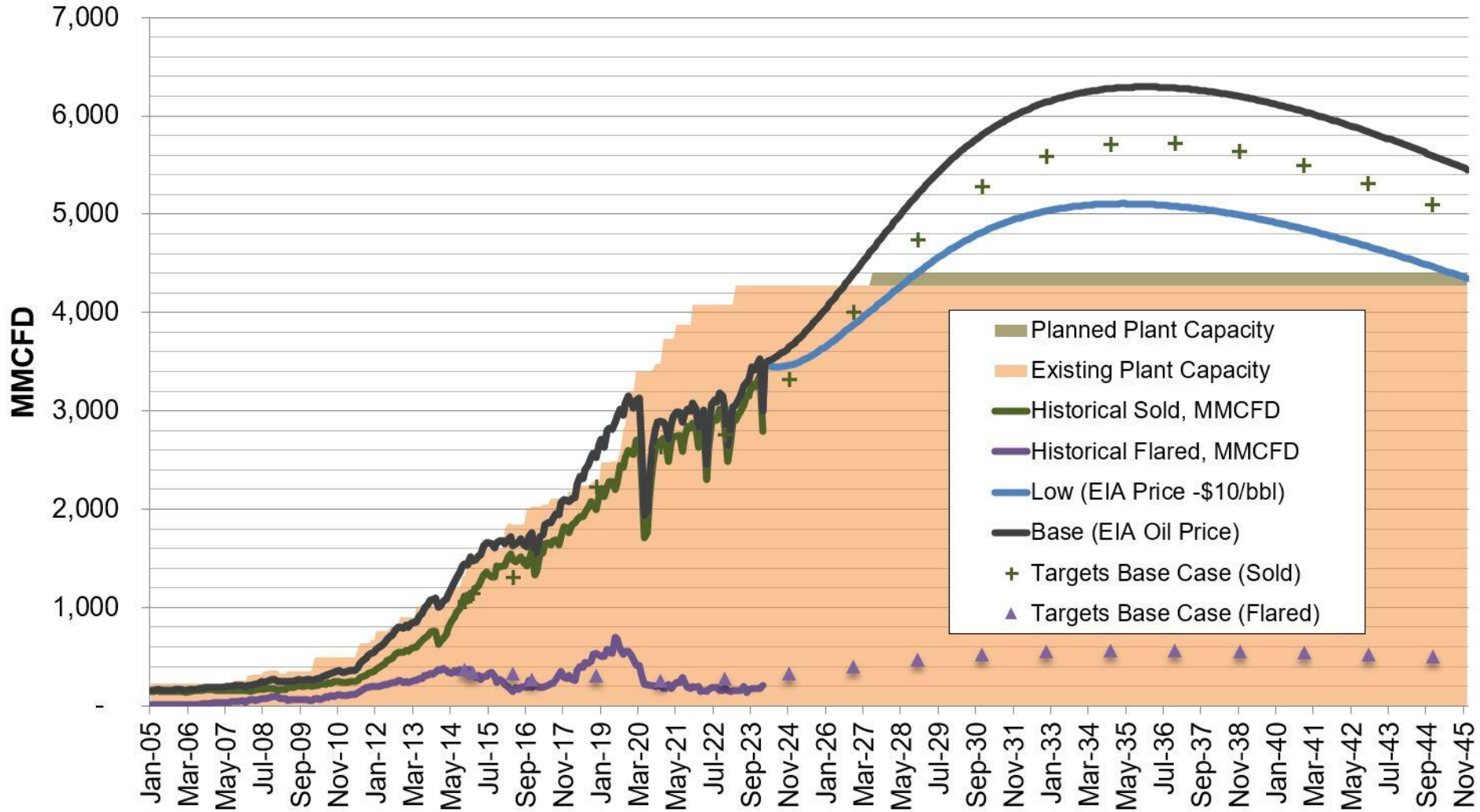


EIA Oil Price Forecast: Mar. 2024

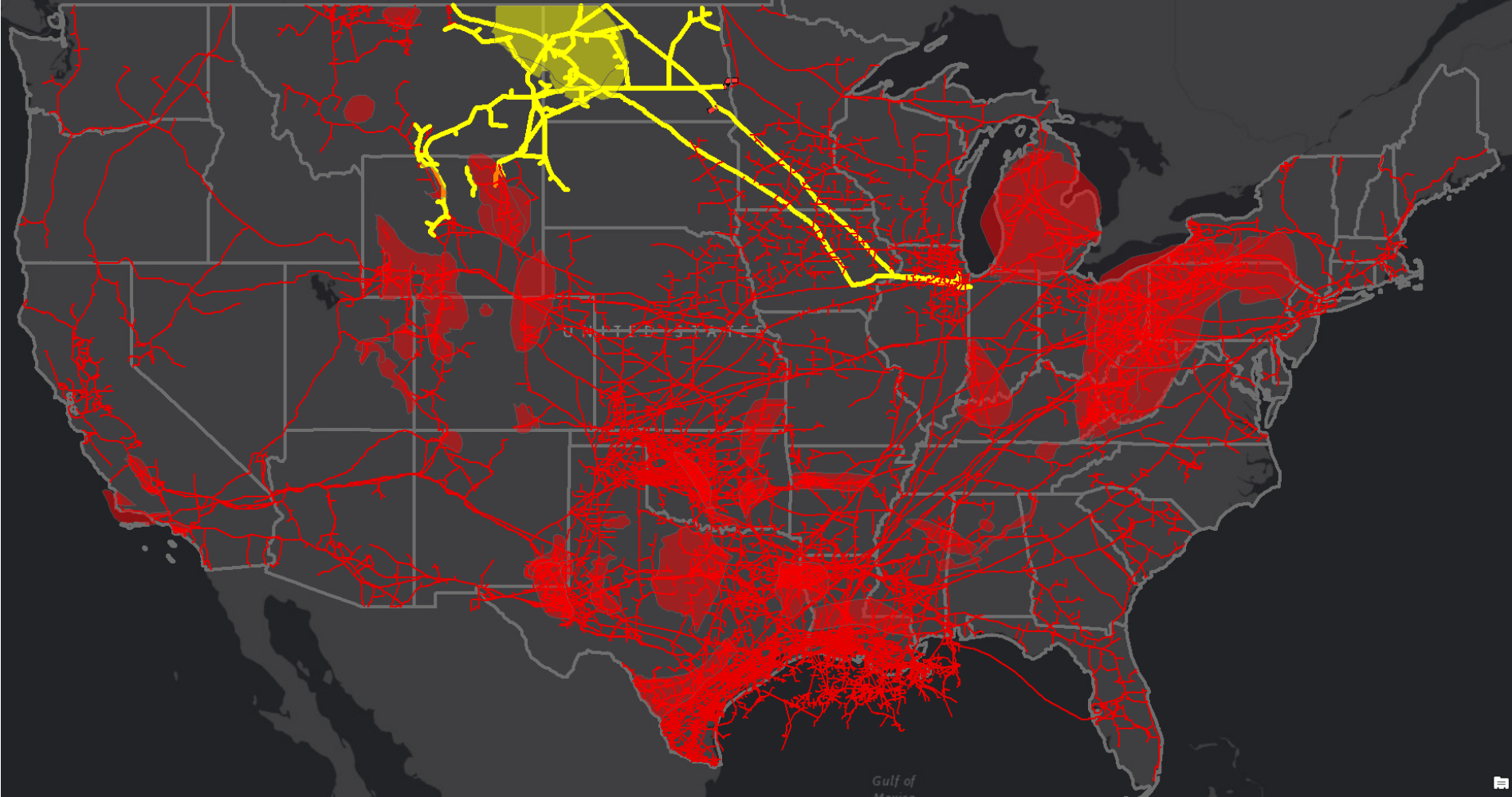
West Texas Intermediate (WTI) crude oil price
dollars per barrel



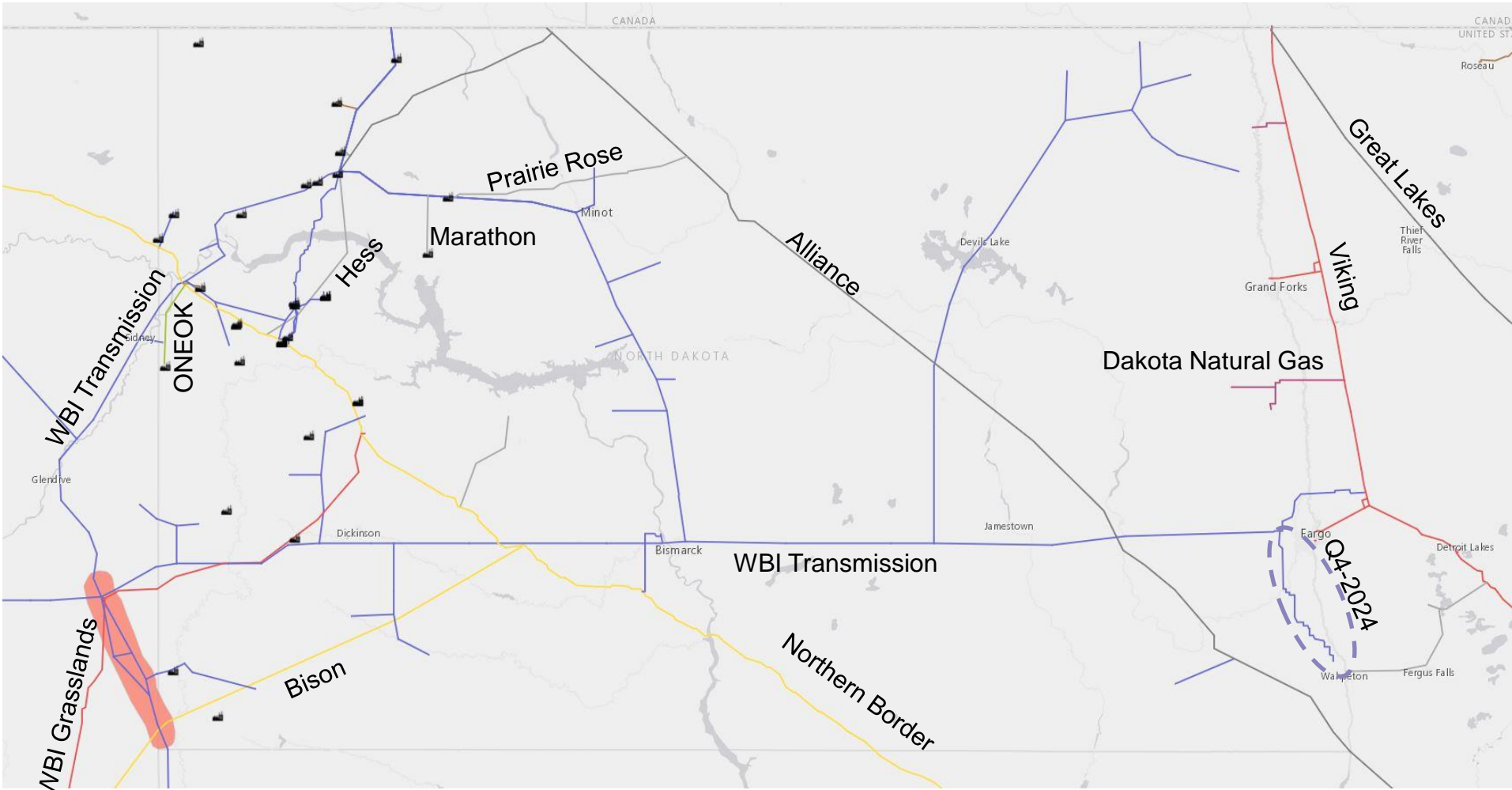
Solving the Flaring Challenge



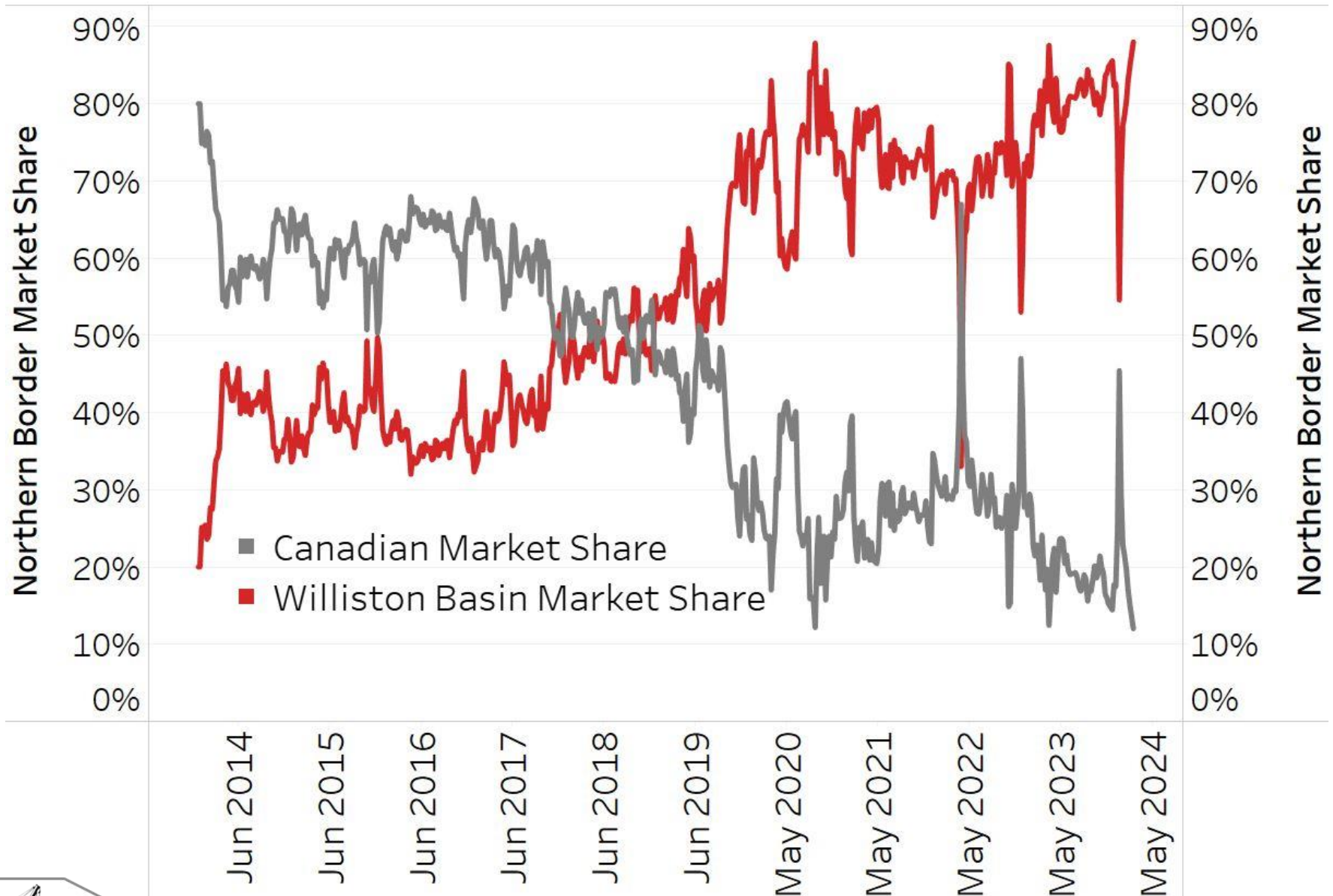
Bakken Natural Gas Infrastructure



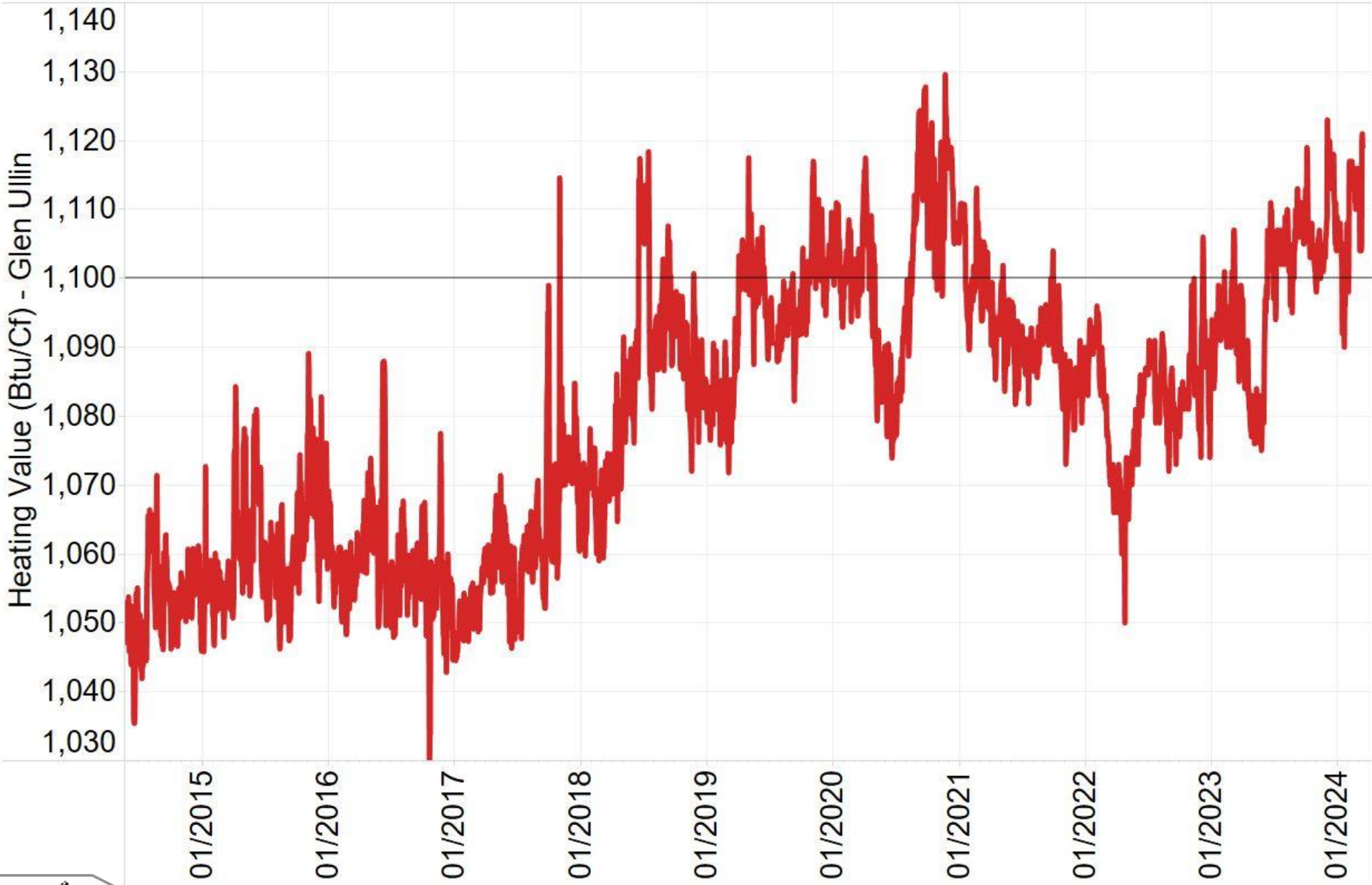
Bakken Natural Gas Infrastructure



Northern Border Pipeline Market Share



Northern Border BTU at Glen Ullin, ND



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