



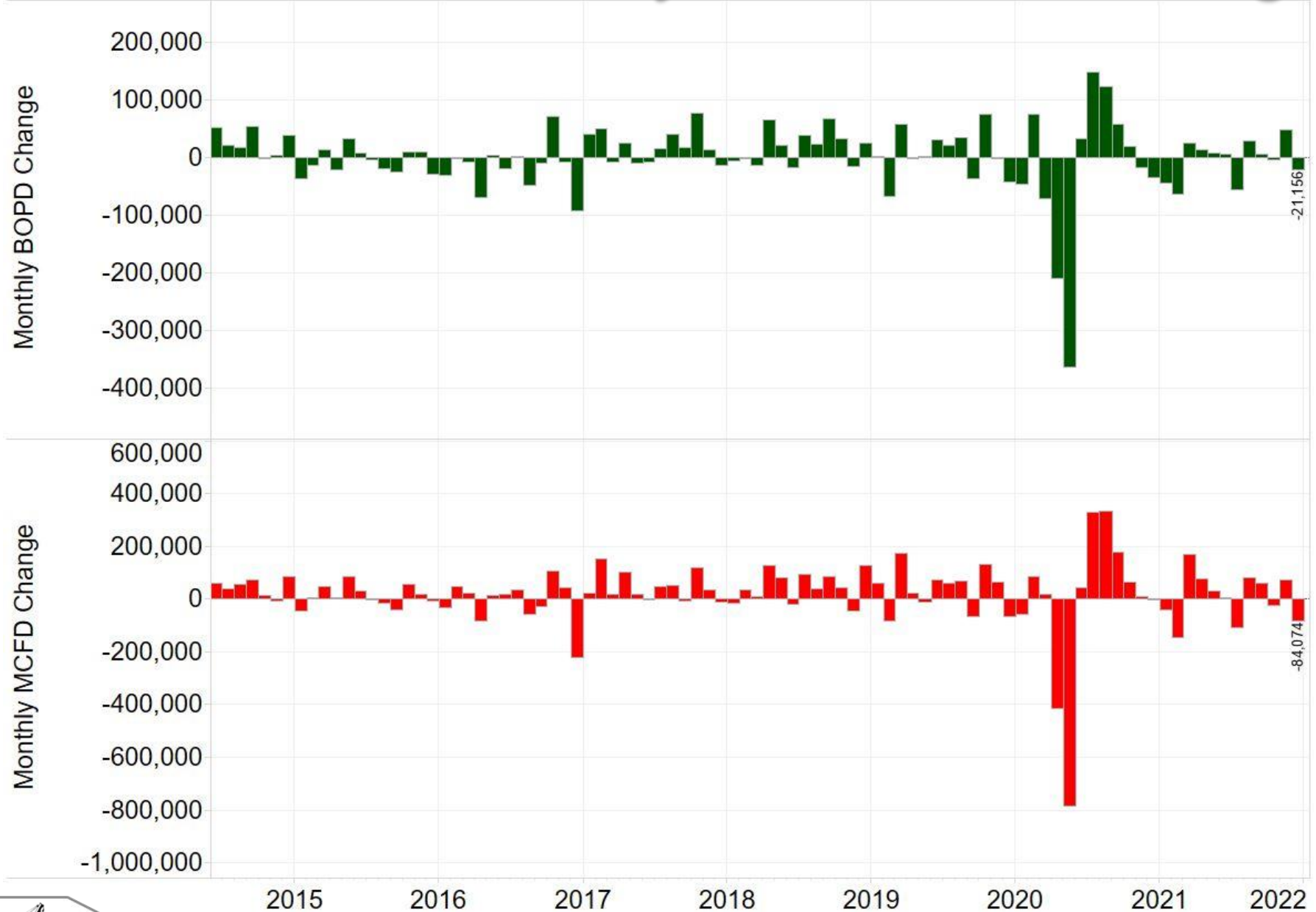
February 2022 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
February 14, 2022

US Williston Basin Oil Production - 2021

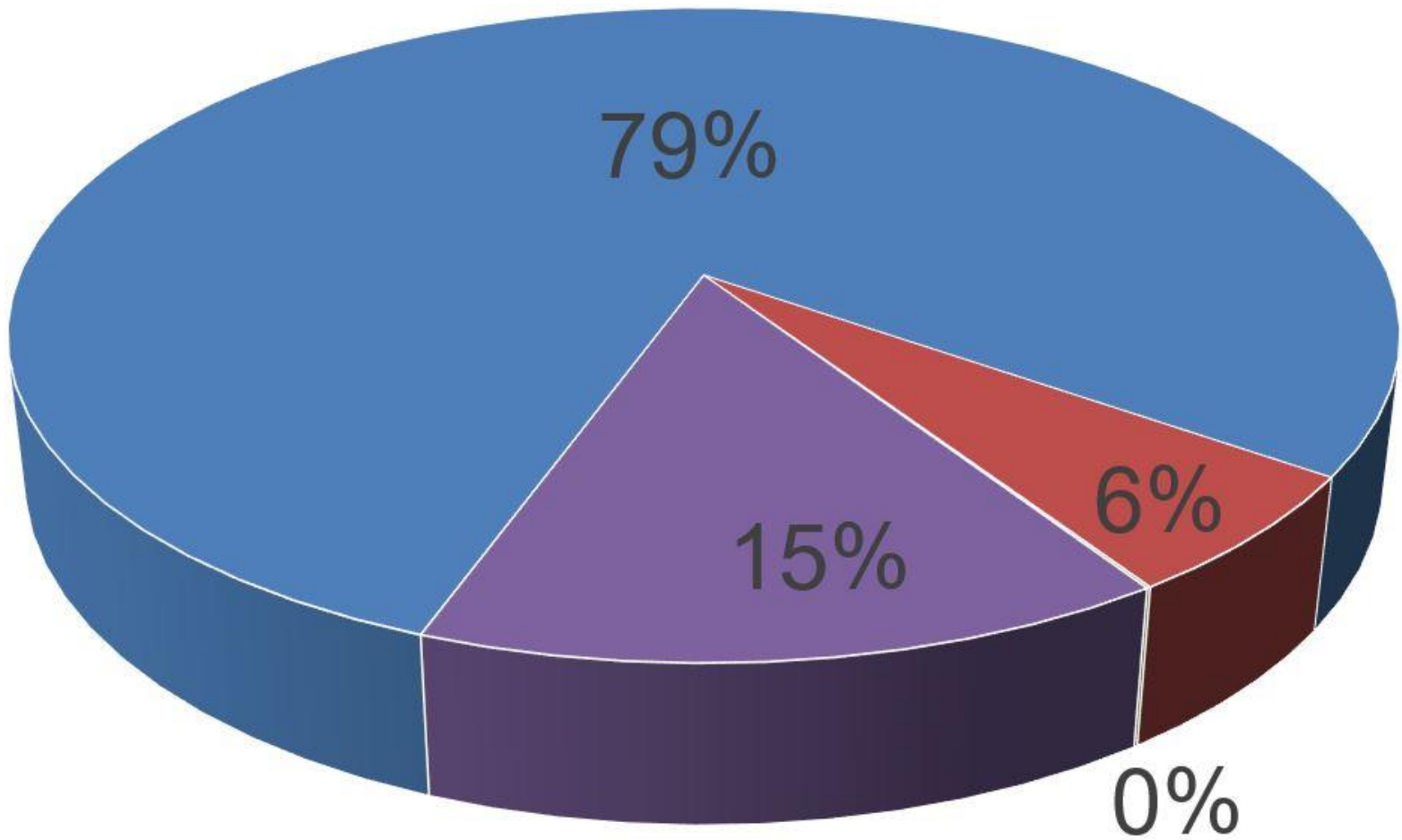
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,147,718	50,417	2,874	1,201,009
February	1,083,819	48,251	2,828	1,134,898
March	1,108,984	49,525	2,744	1,161,254
April	1,121,754	48,439	2,644	1,172,837
May	1,129,777	47,201	2,640	1,179,618
June	1,134,756	43,767	3,103	1,181,626
July	1,078,877	43,413	2,884	1,125,174
August	1,108,131	46,908	2,892	1,157,931
September	1,114,020	50,040	2,847	1,166,906
October	1,110,910	48,978	2,853	1,162,741
November	1,158,622	48,051	2,780	1,209,453
December	1,137,466			



North Dakota Monthly Production Change



Estimated Williston Basin Oil Transportation



■ Pipeline Export

■ Truck/Rail to Canada

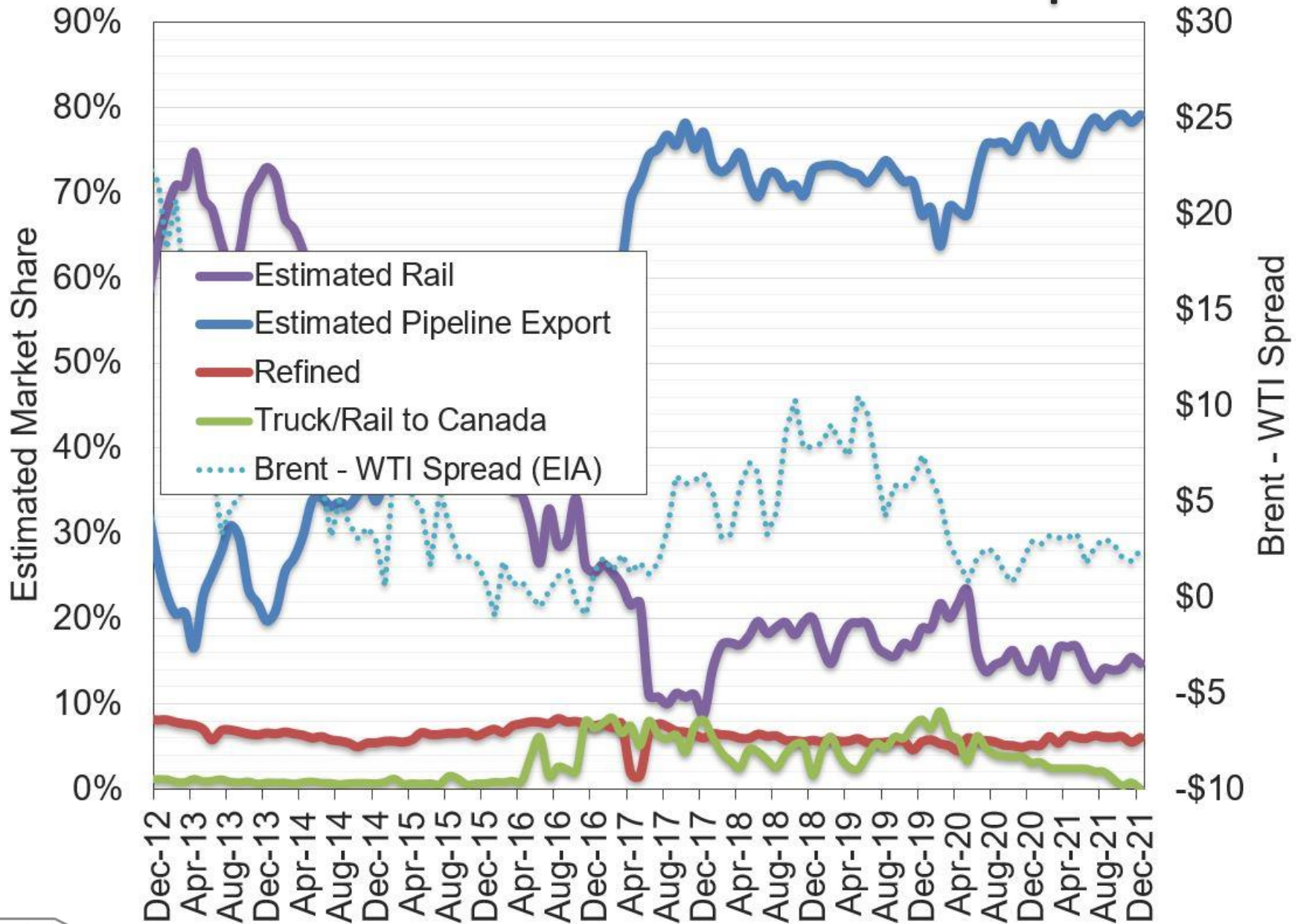
■ Refined

■ Estimated Rail

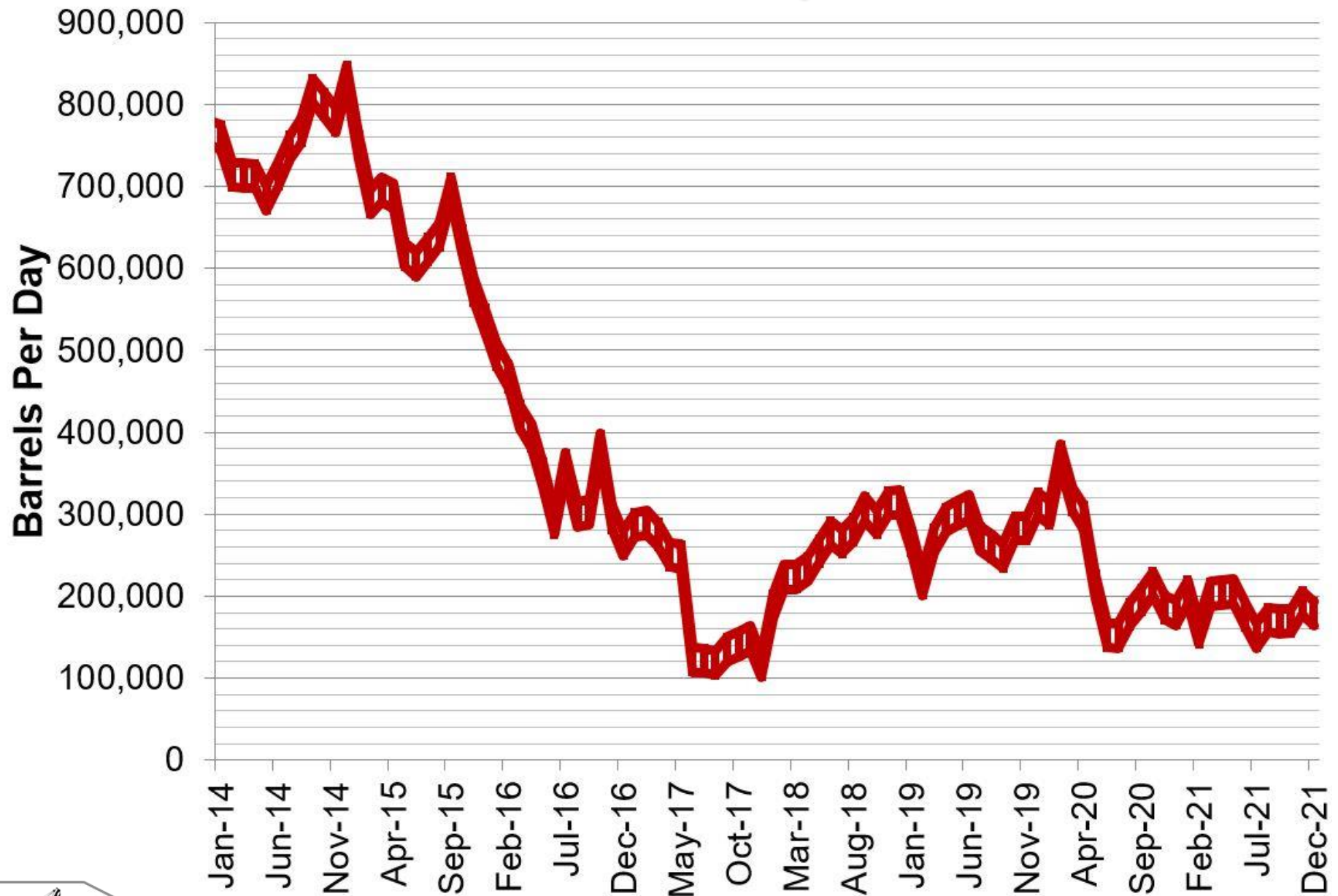
December 2021



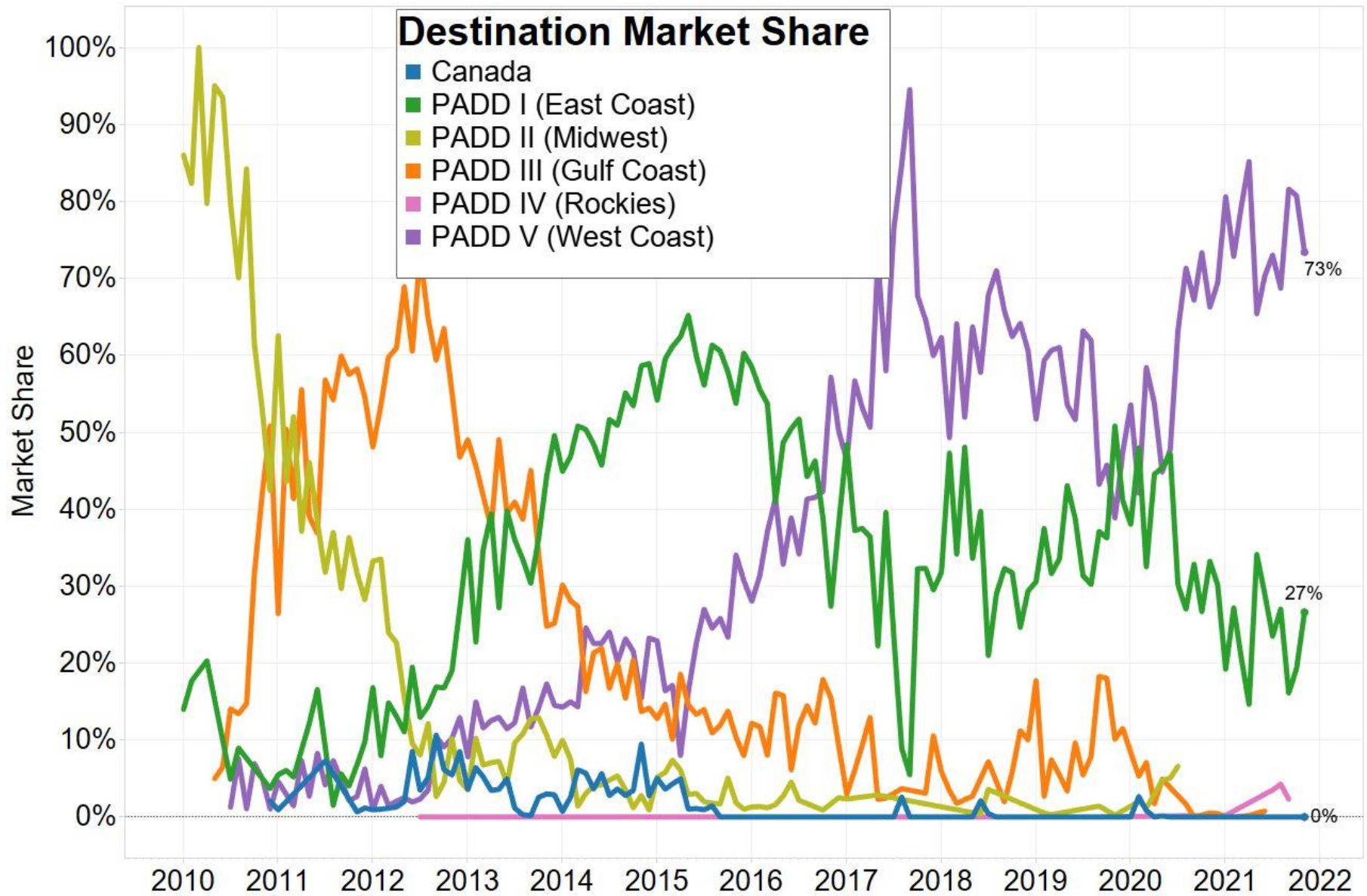
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



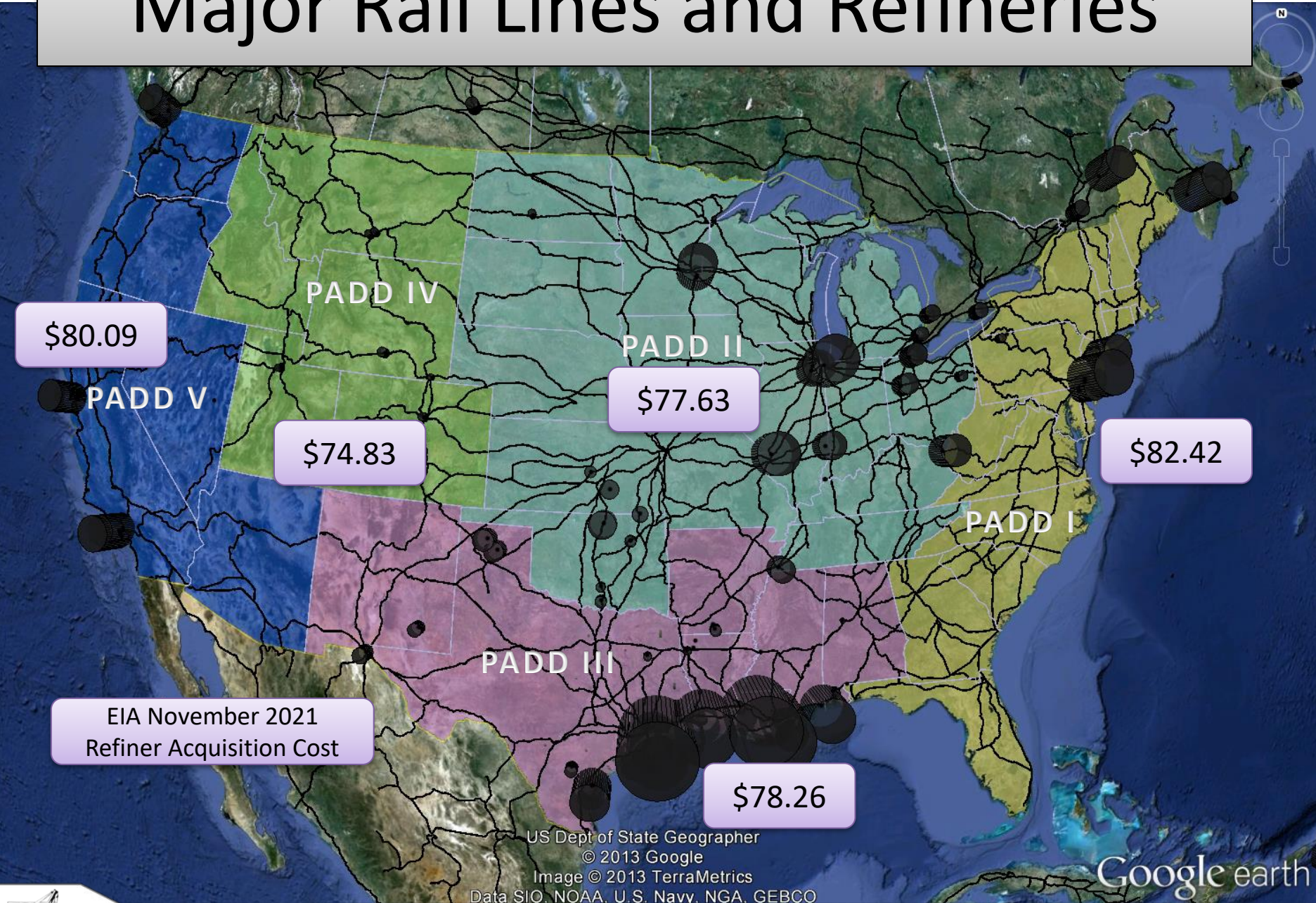
Rail Destinations Market Share (Nov. 2021)



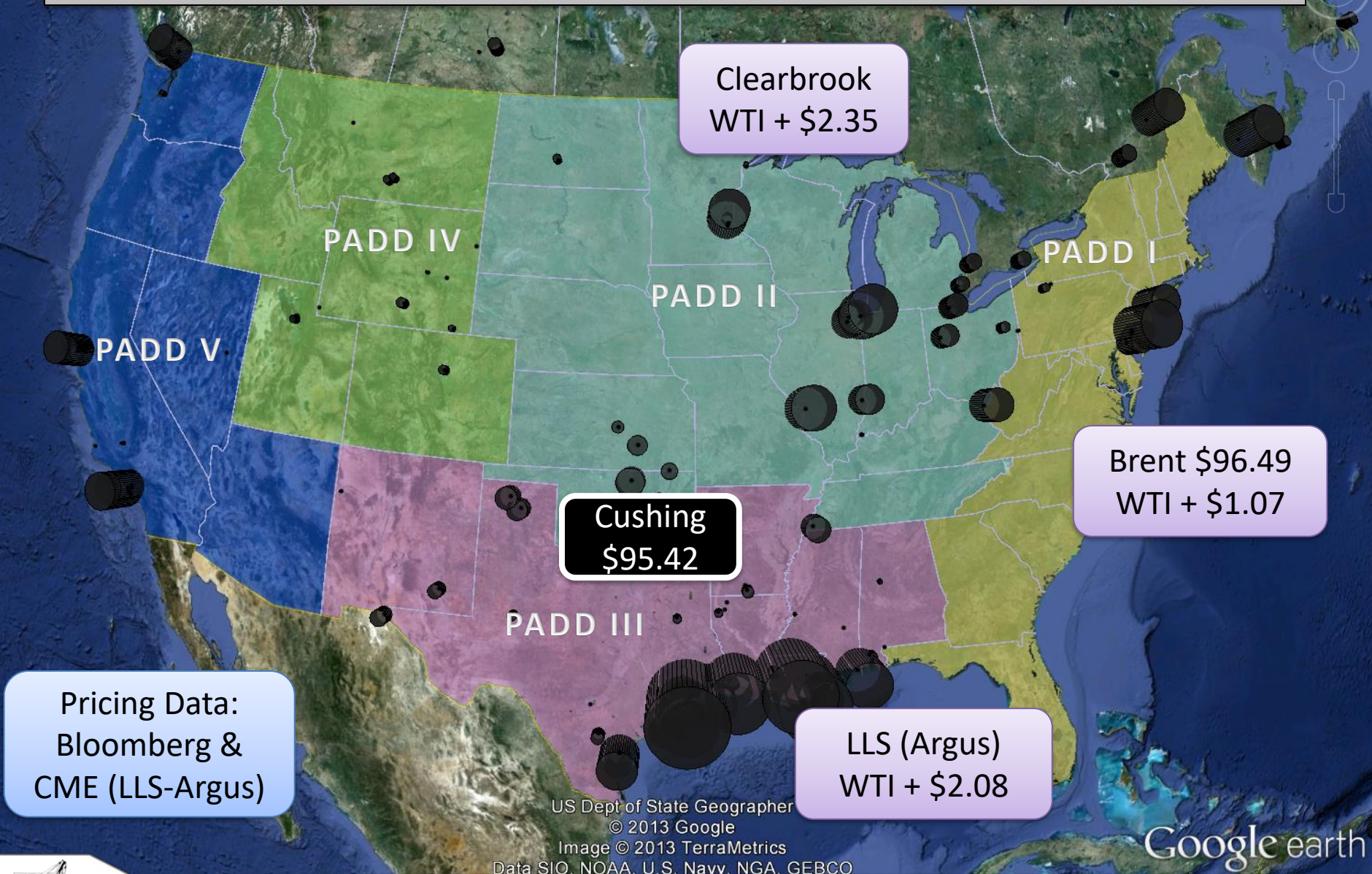
Data for Rail Destination Market Share Provided by the US Energy Information Administration



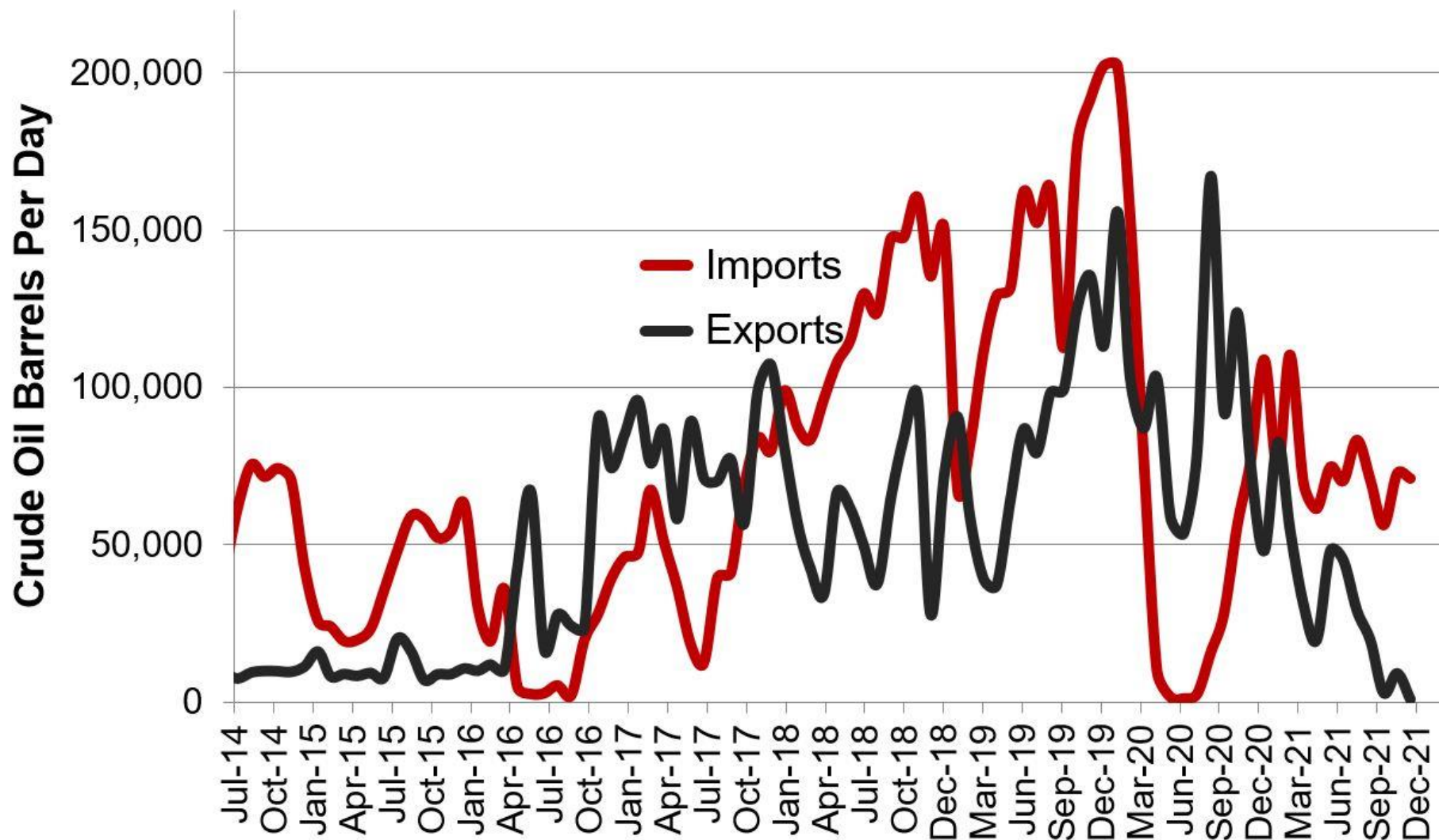
Major Rail Lines and Refineries



Crude Oil Prices – Feb. 14, 2022



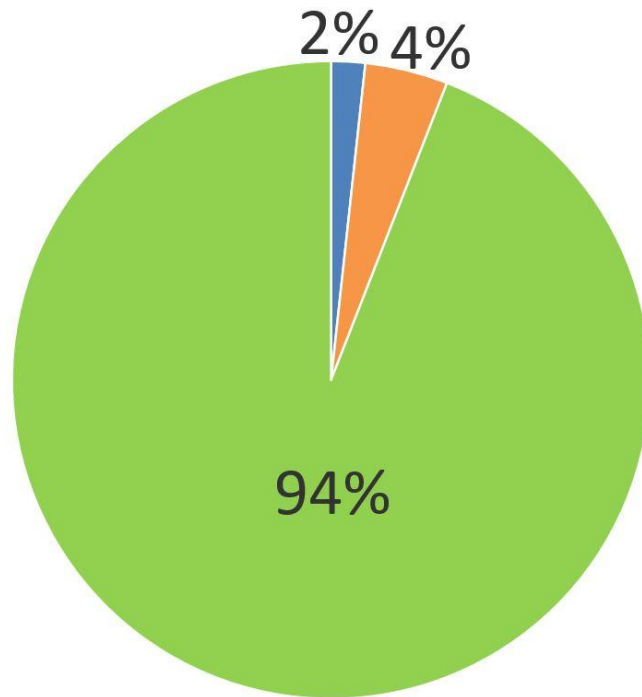
Williston Basin Truck/Rail Imports and Exports with Canada



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.

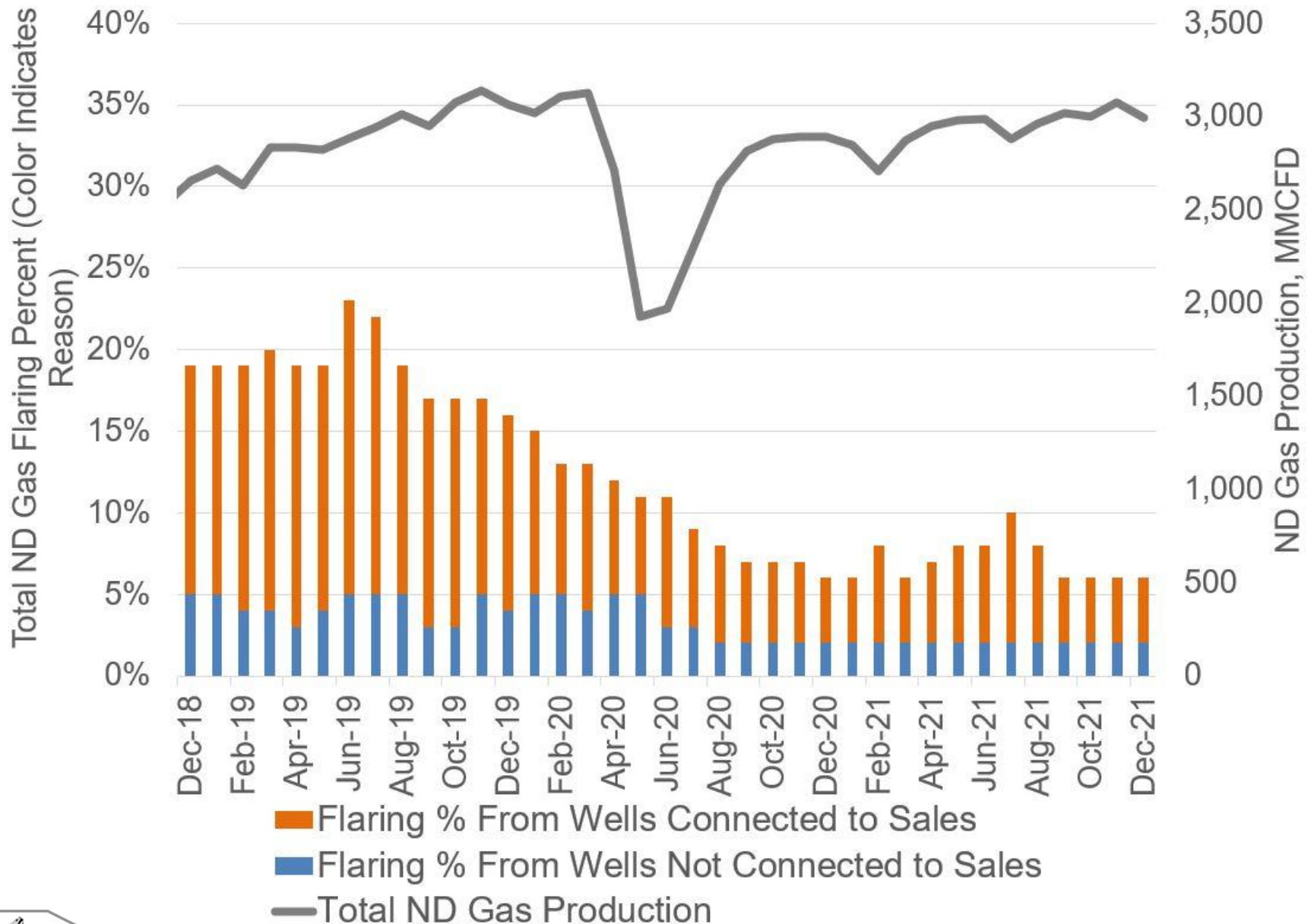
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

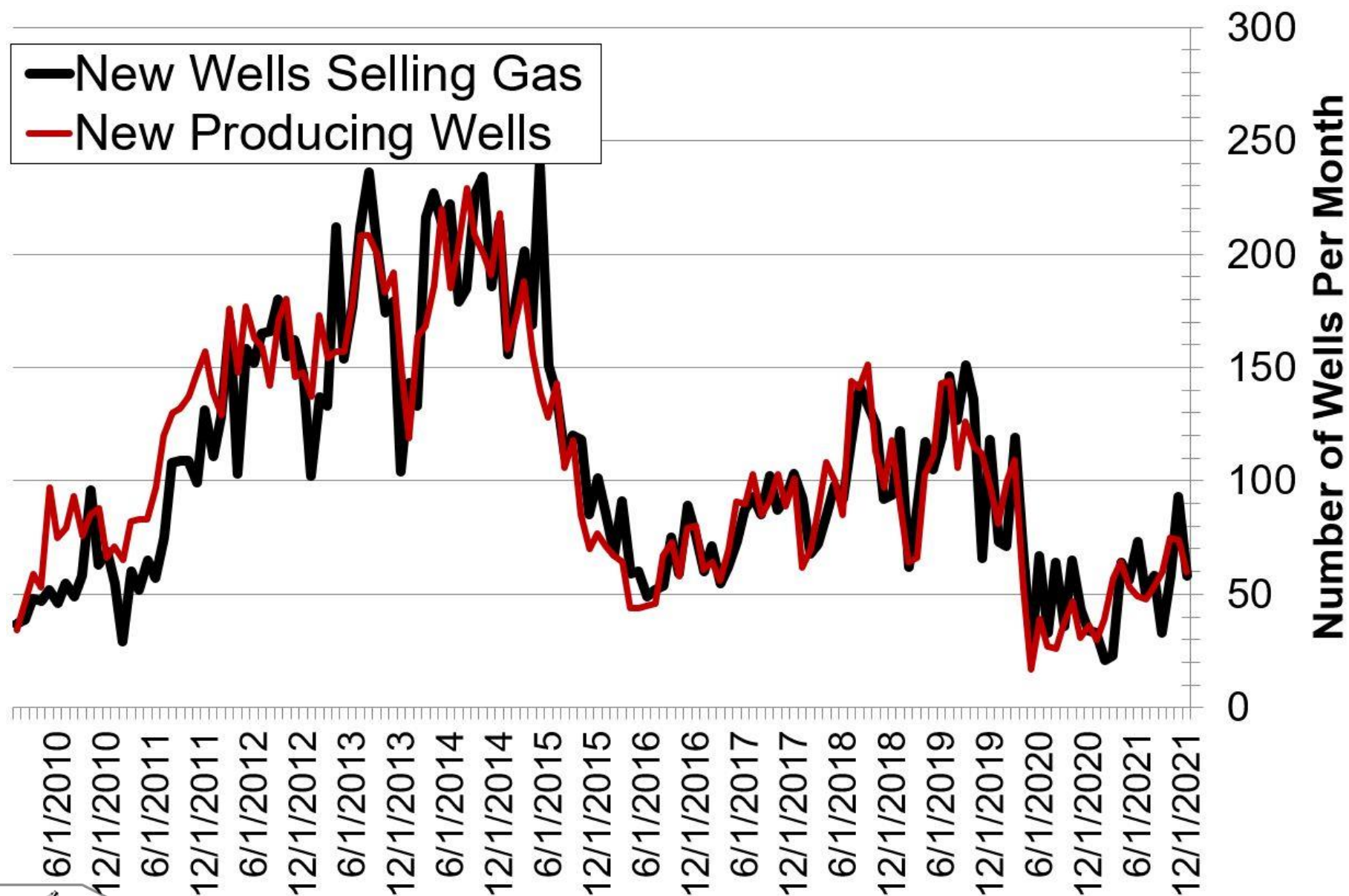
Dec. 2021 Data – Non-Confidential Wells



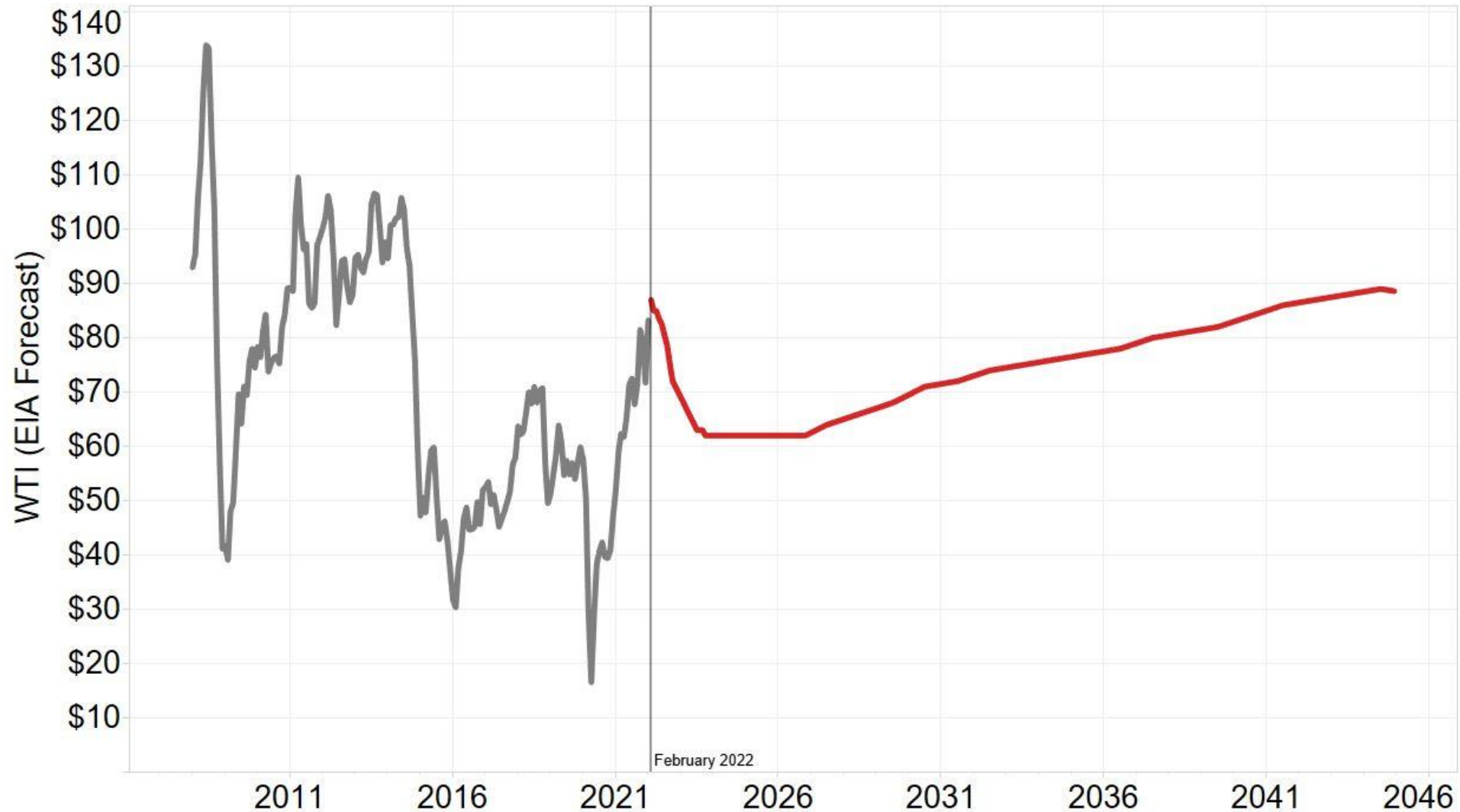
Solving the Flaring Challenge



Solving the Flaring Challenge



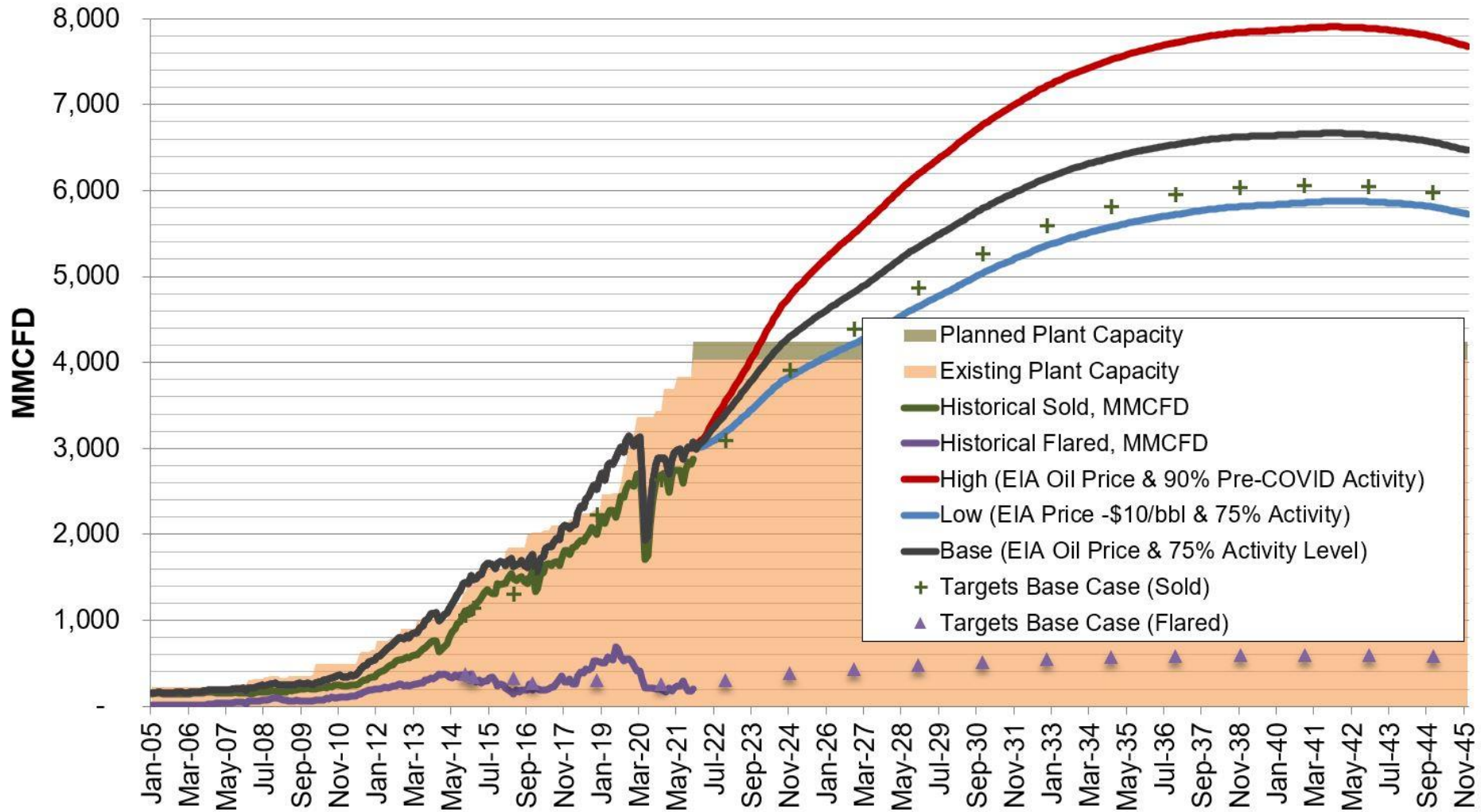
EIA Oil Price Forecast*



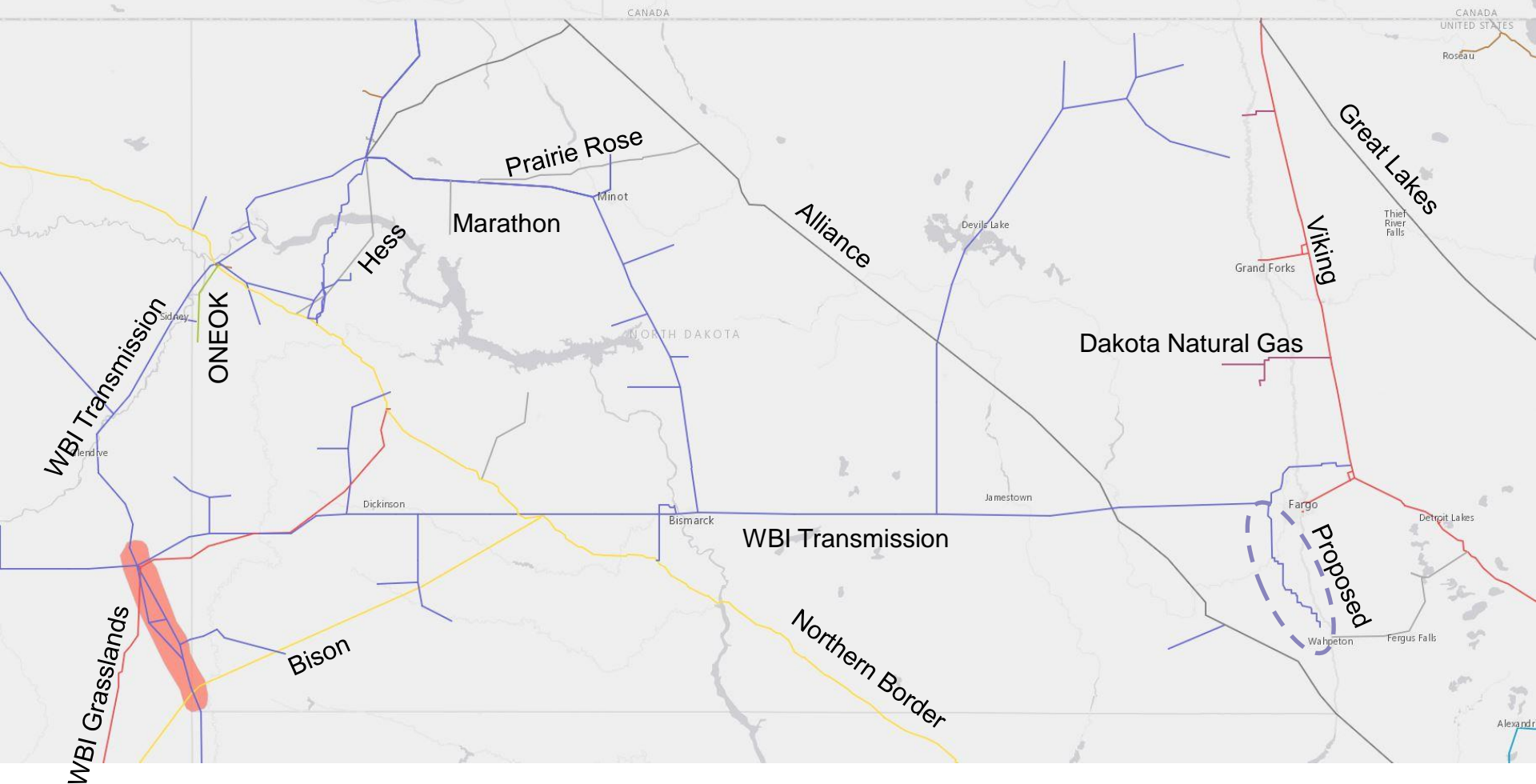
**EIA February 2022 SEO and February 2021 AEO Blend*



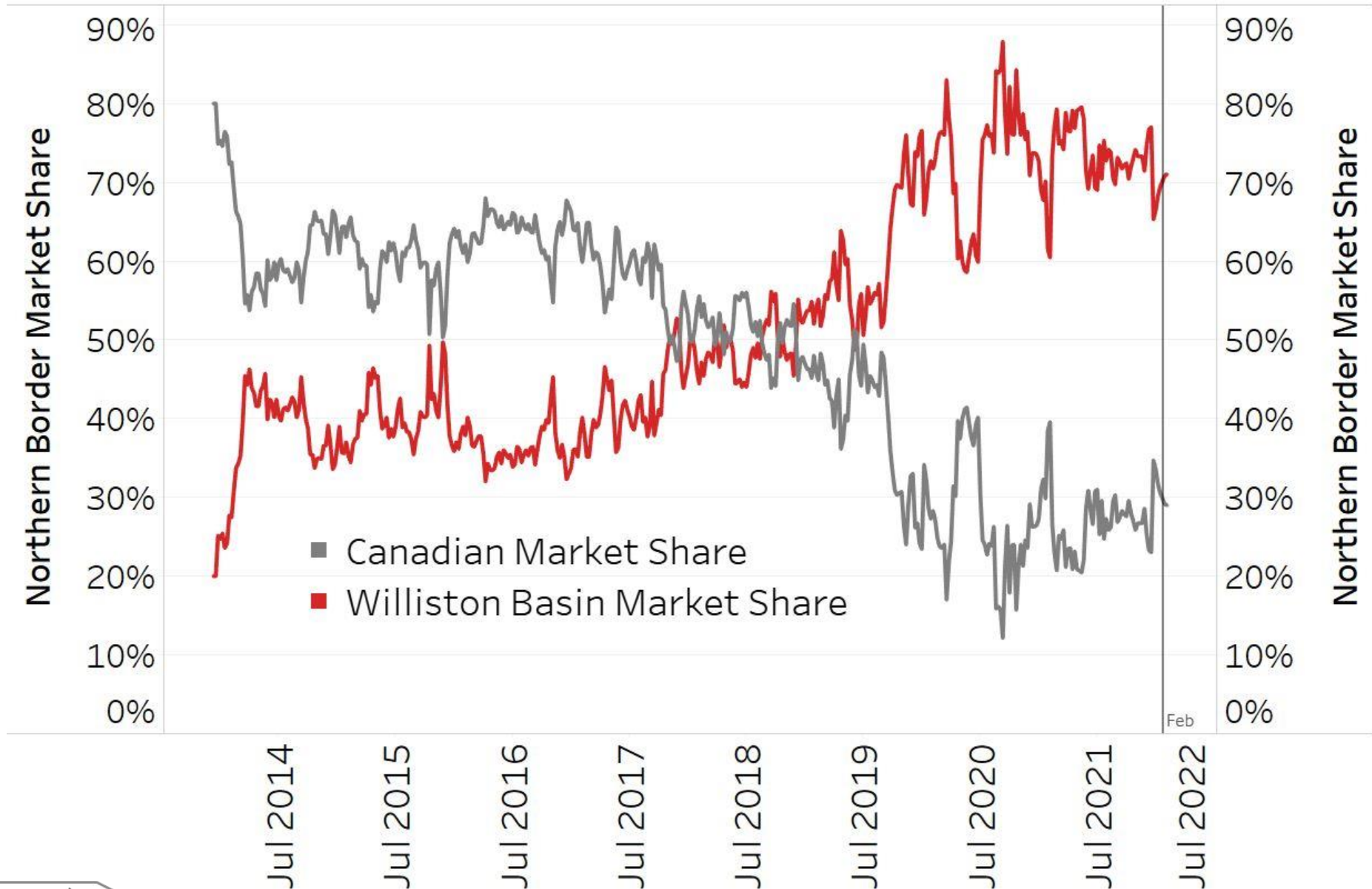
Solving the Flaring Challenge



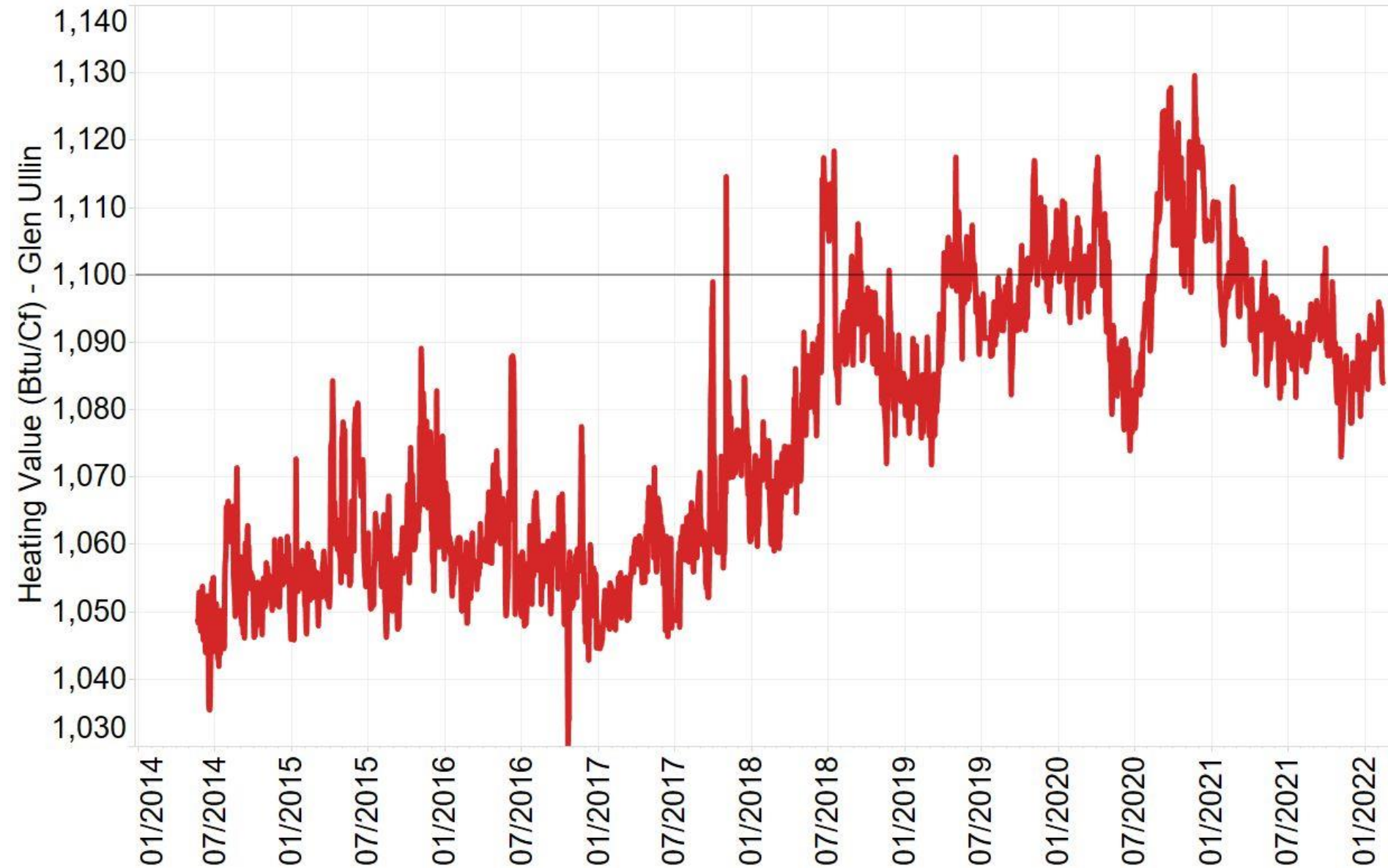
Bakken Natural Gas Infrastructure



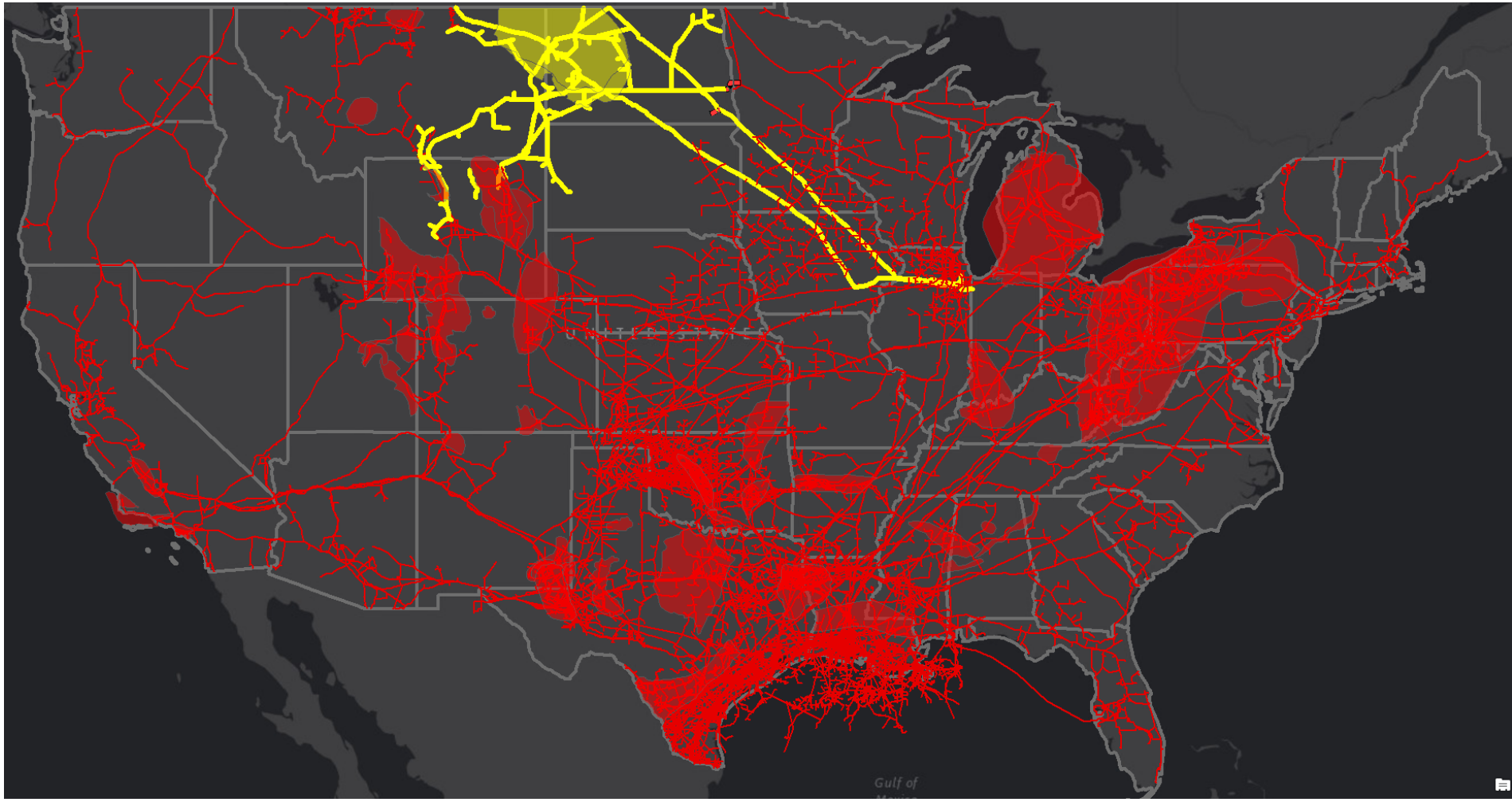
Northern Border Pipeline Market Share



Northern Border BTU at Glen Ullin, ND



Bakken Natural Gas Infrastructure



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