



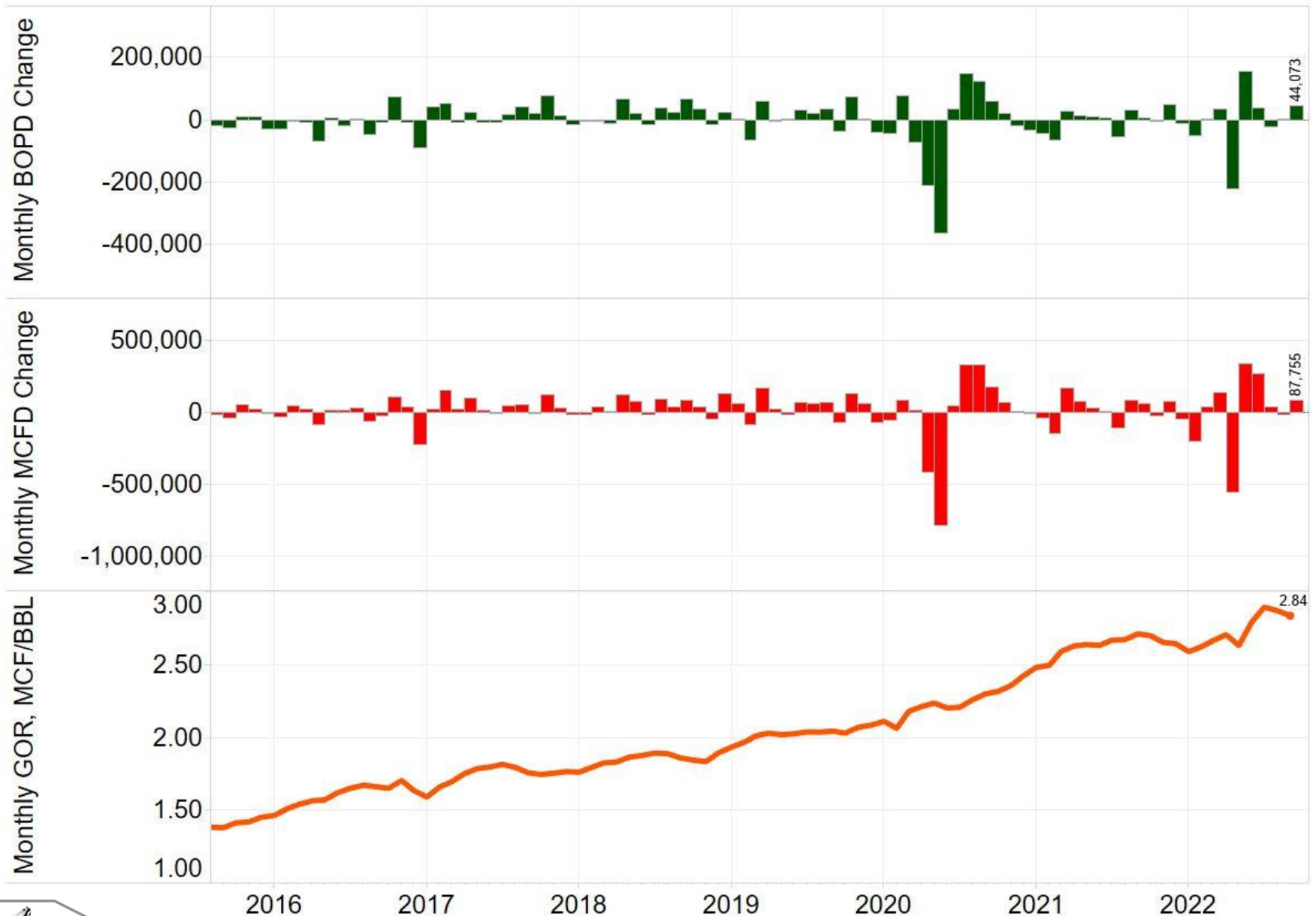
November 2022 Monthly Update  
North Dakota Pipeline Authority  
Justin J. Kringstad  
November 15, 2022

# US Williston Basin Oil Production - 2022

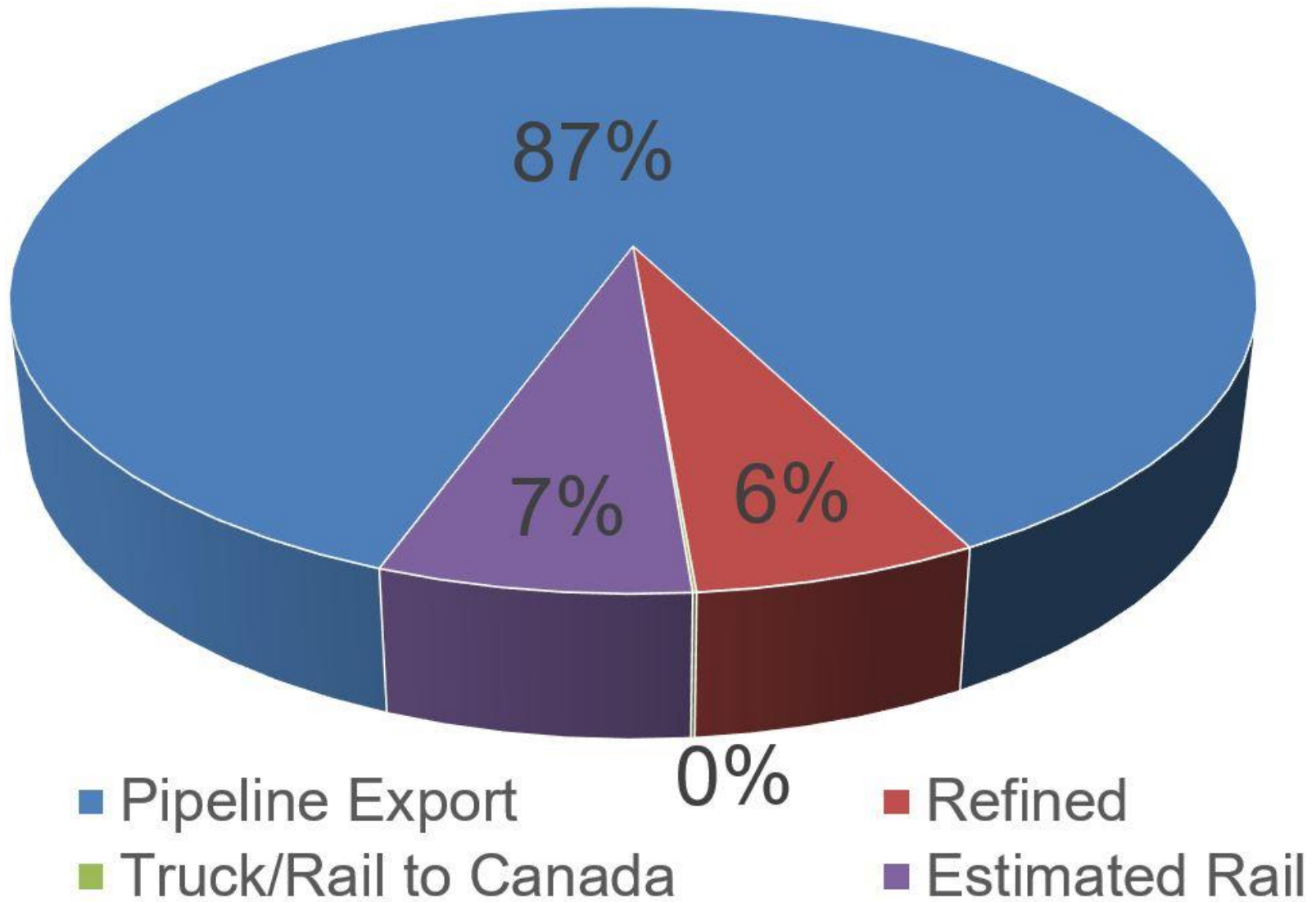
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,091,923	47,598	2,709	1,142,230
February	1,093,706	46,947	2,742	1,143,395
March	1,128,295	50,498	2,709	1,181,502
April	906,990	49,825	2,338	959,153
May	1,060,897	49,159	2,648	1,112,704
June	1,098,156	58,901	2,764	1,159,821
July	1,072,637	54,729	2,774	1,130,140
August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

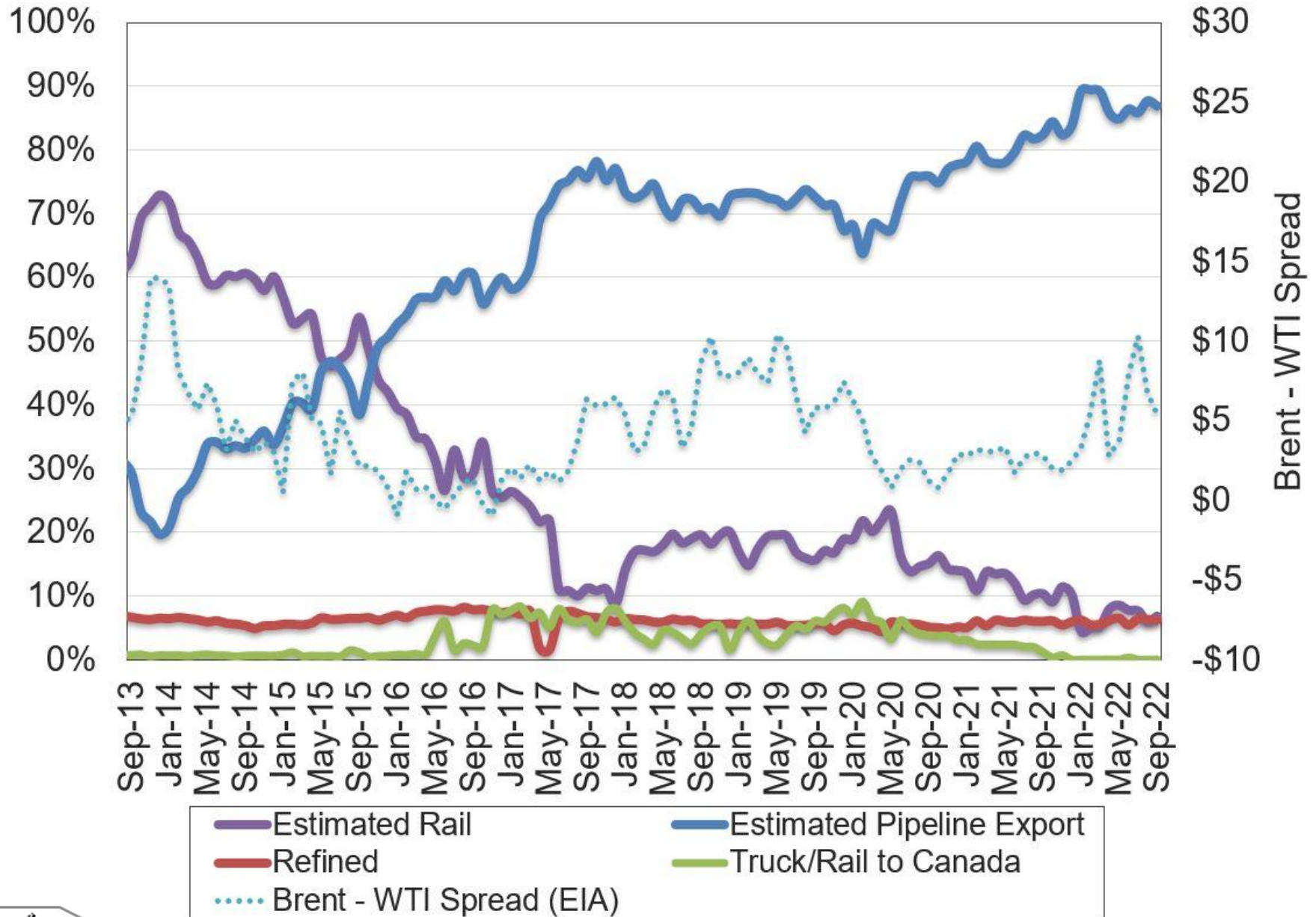


September 2022



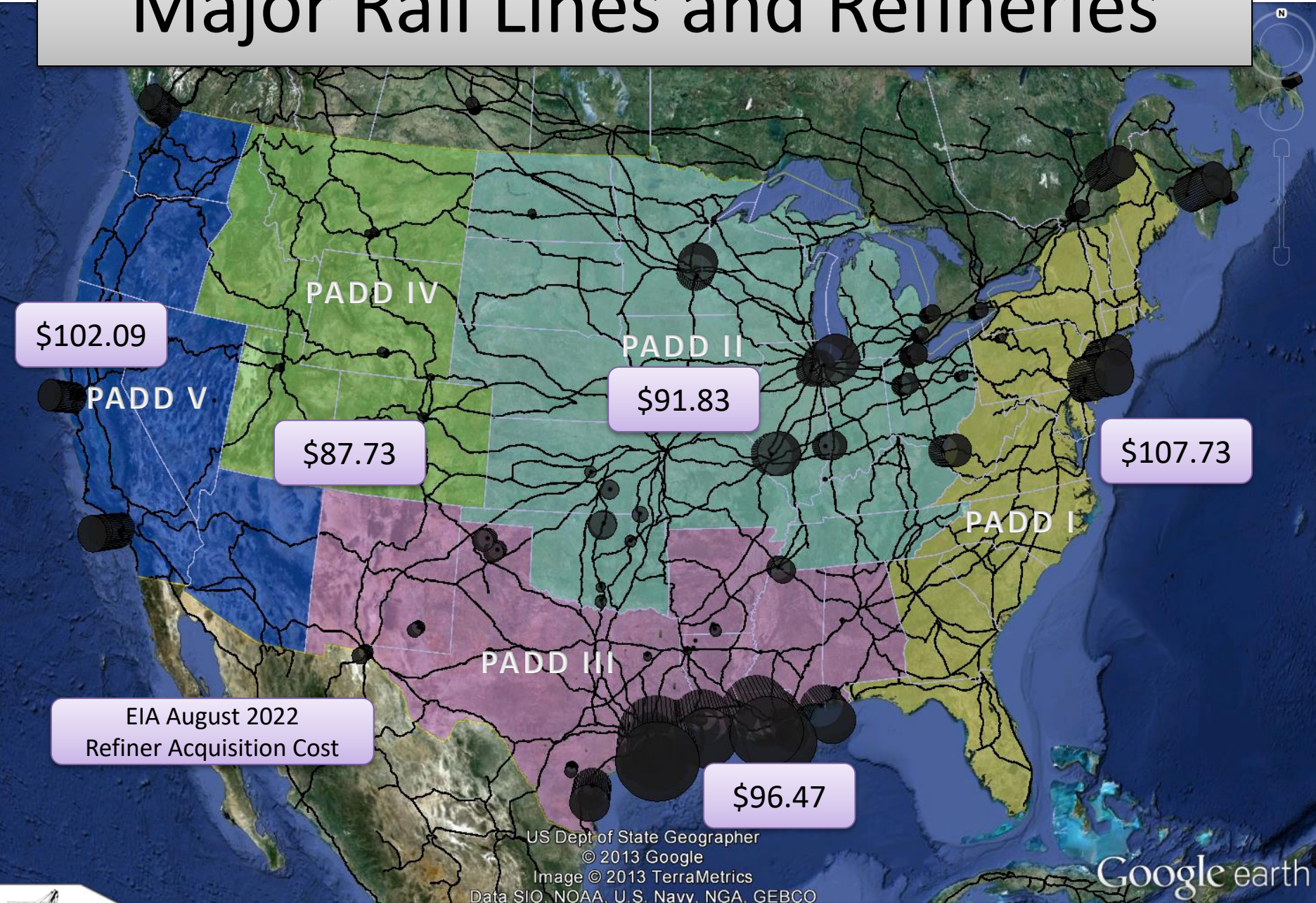


# Estimated Williston Basin Oil Transportation





# Major Rail Lines and Refineries

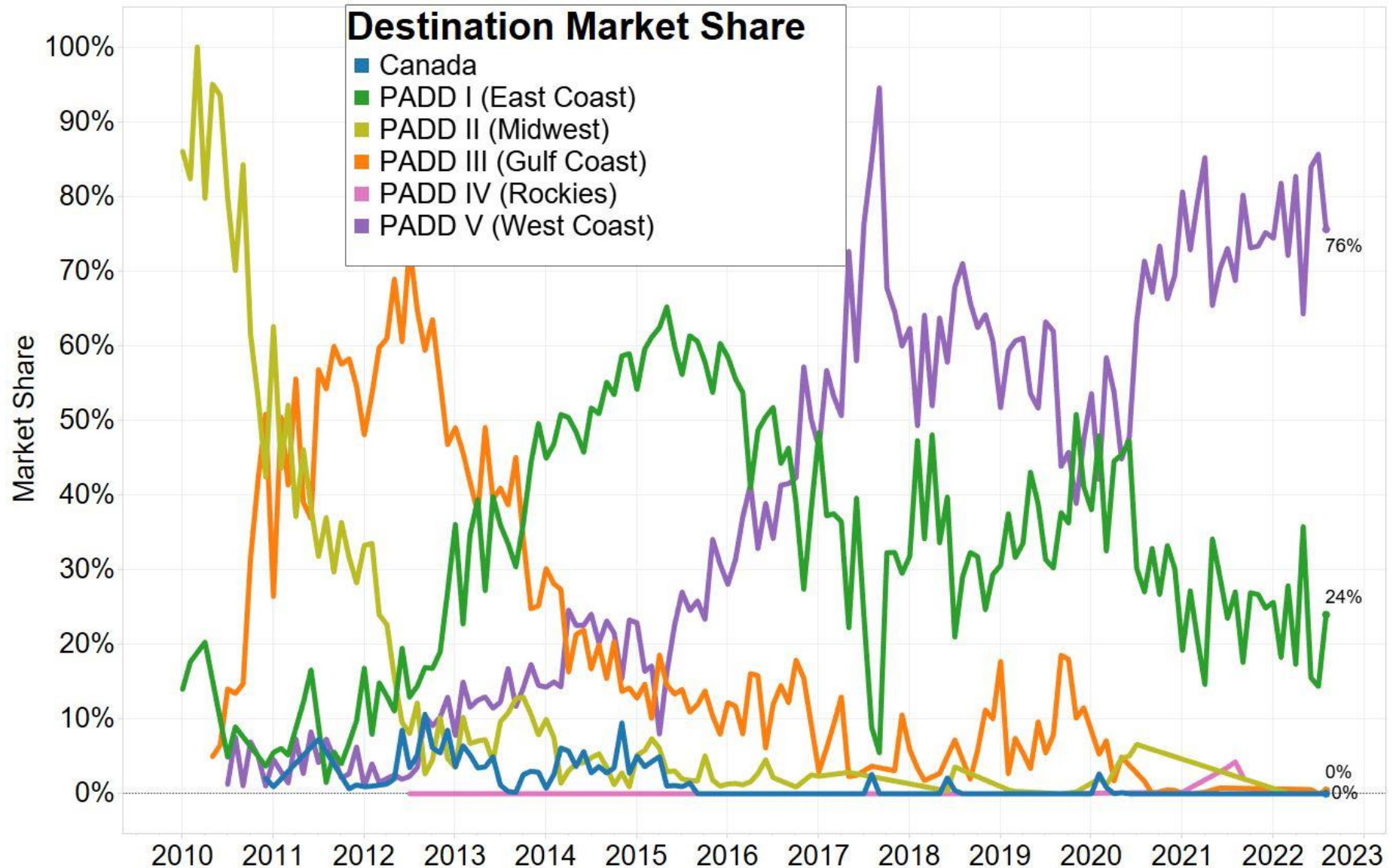


# Estimated ND Rail Export Volumes





# Rail Destinations Market Share (Aug. 2022)

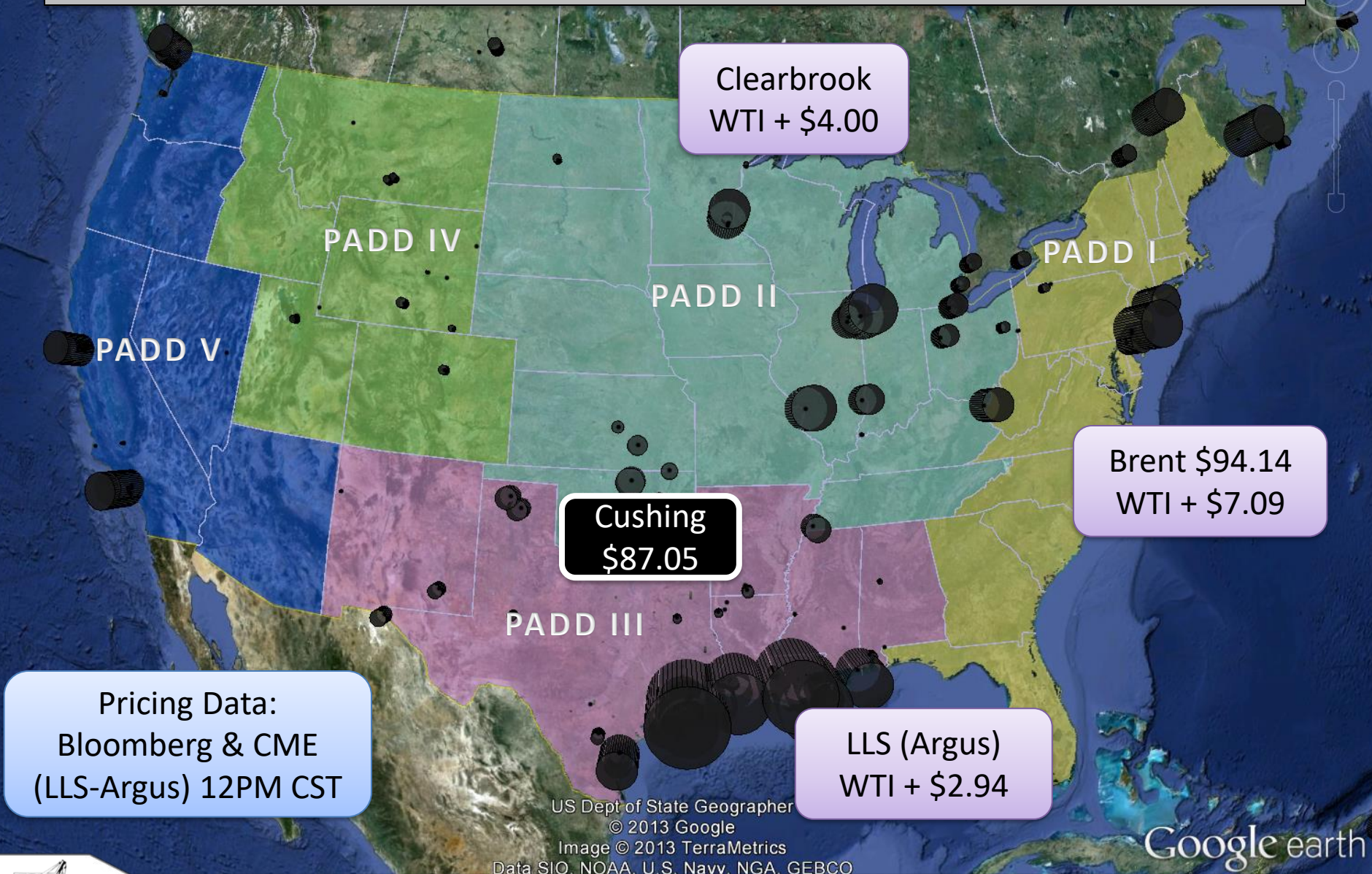


Data for Rail Destination Market Share Provided by the US Energy Information Administration

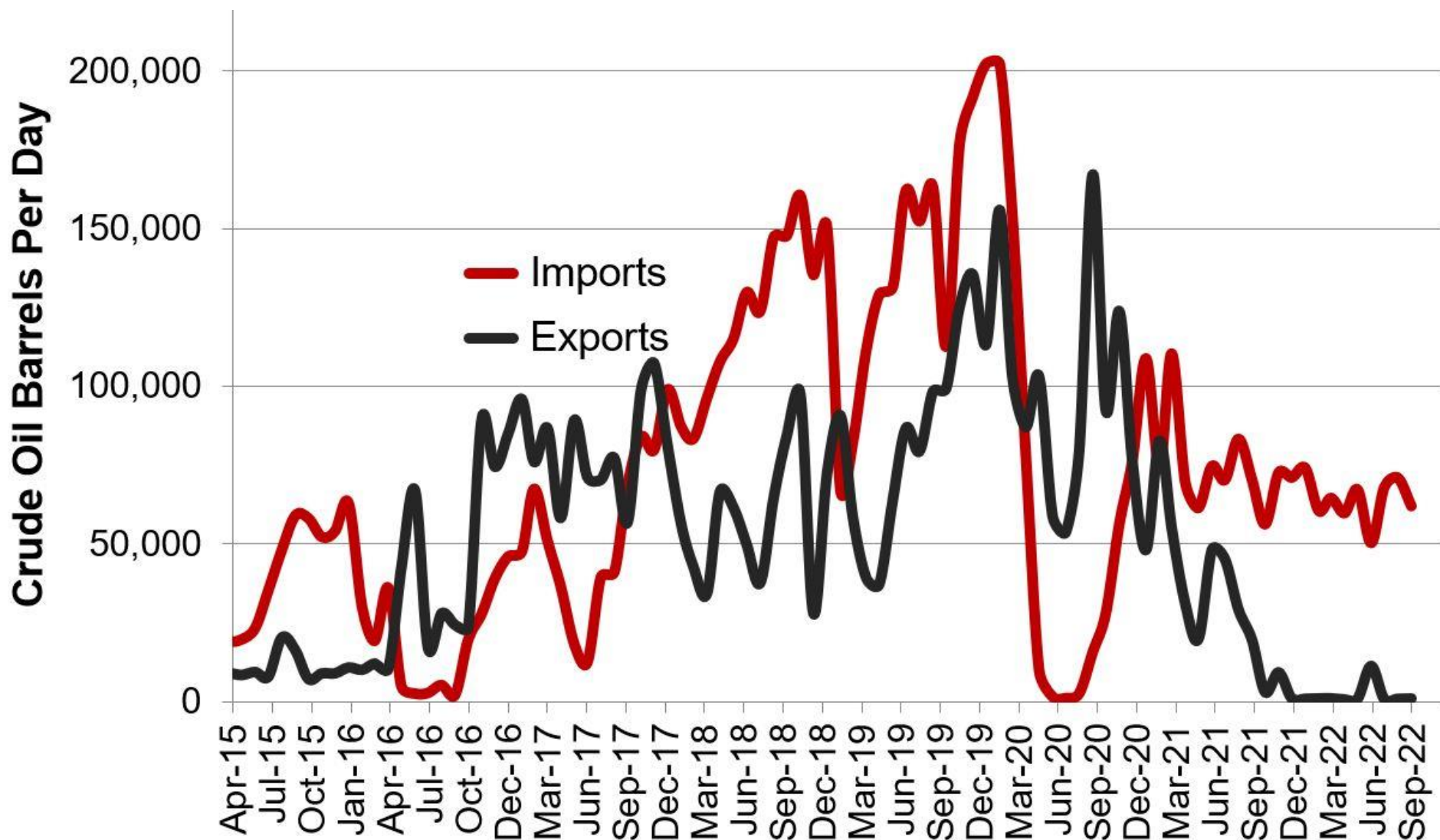




# Crude Oil Prices – Nov. 15, 2022



# Williston Basin Truck/Rail Imports and Exports with Canada

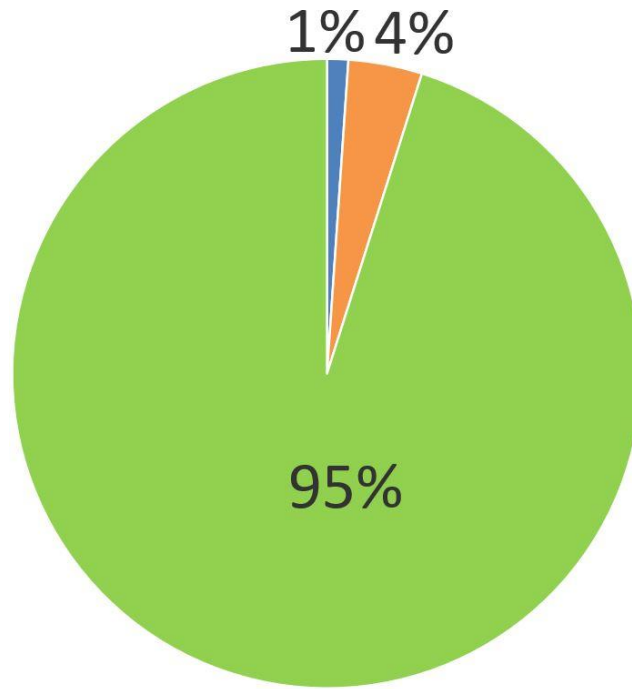


*Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.*





# 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

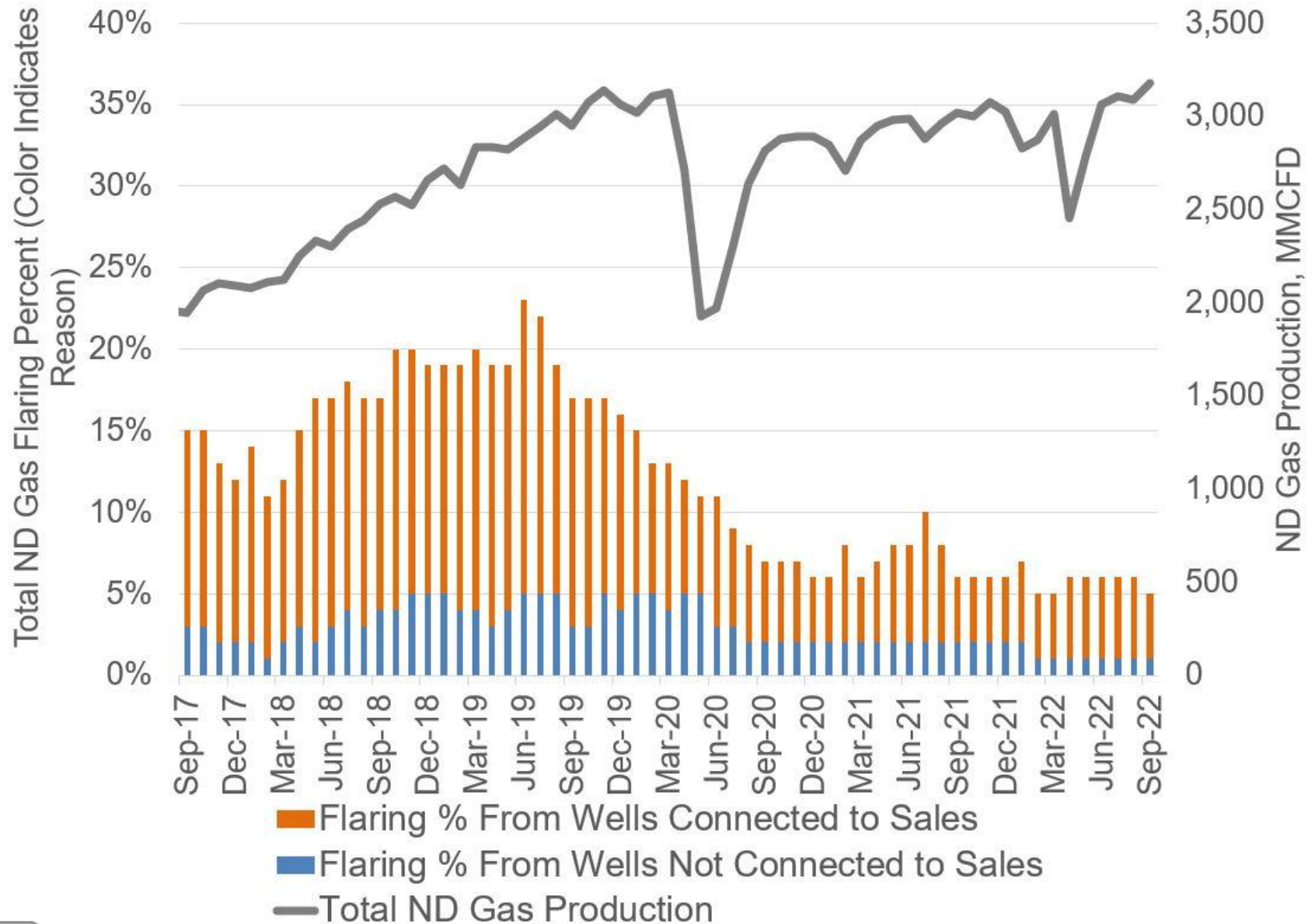
**Blue** – Lack of pipelines  
**Orange** – Challenges on existing infrastructure

Sep. 2022 Data – Non-Confidential Wells

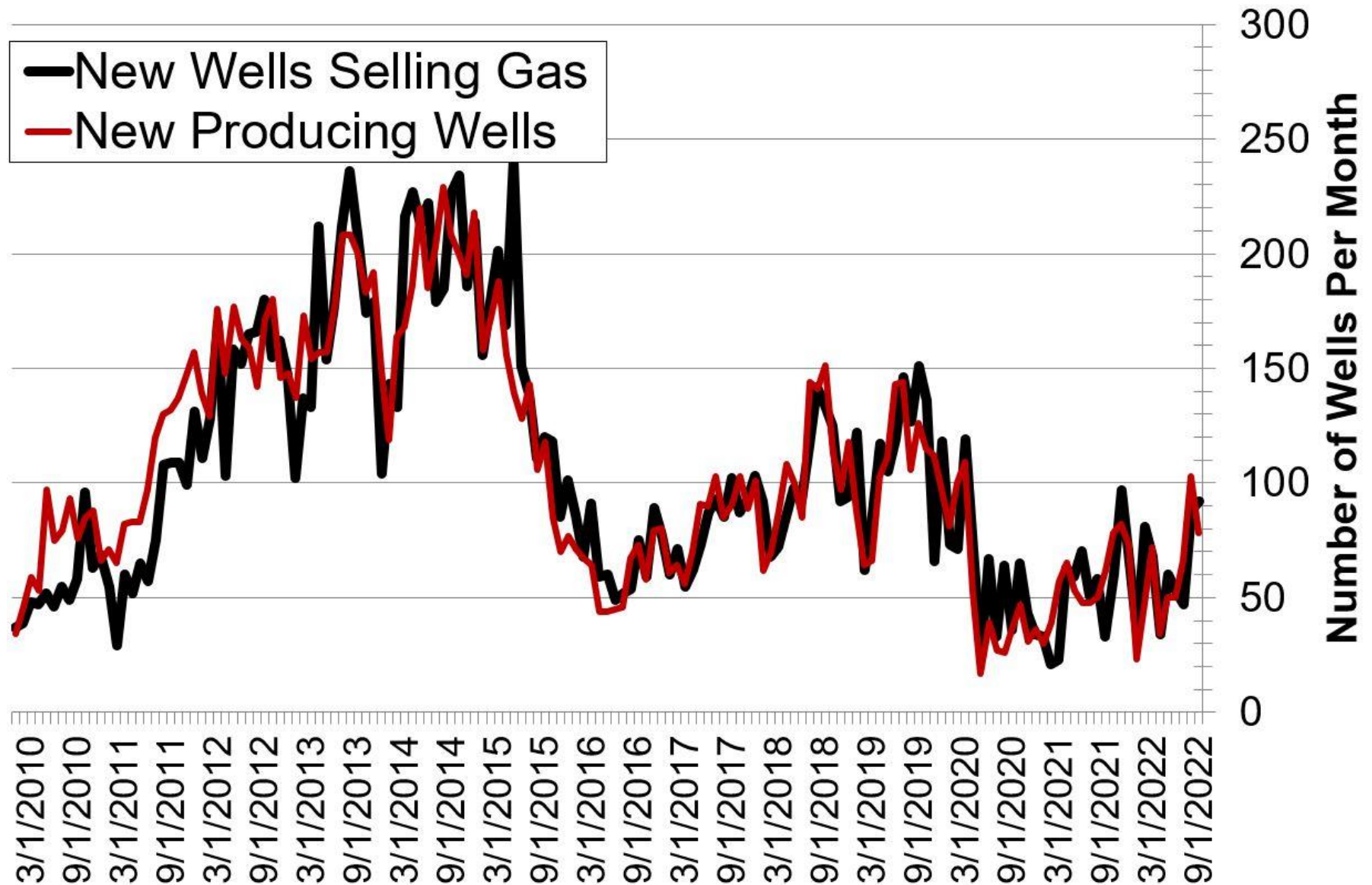




# Solving the Flaring Challenge

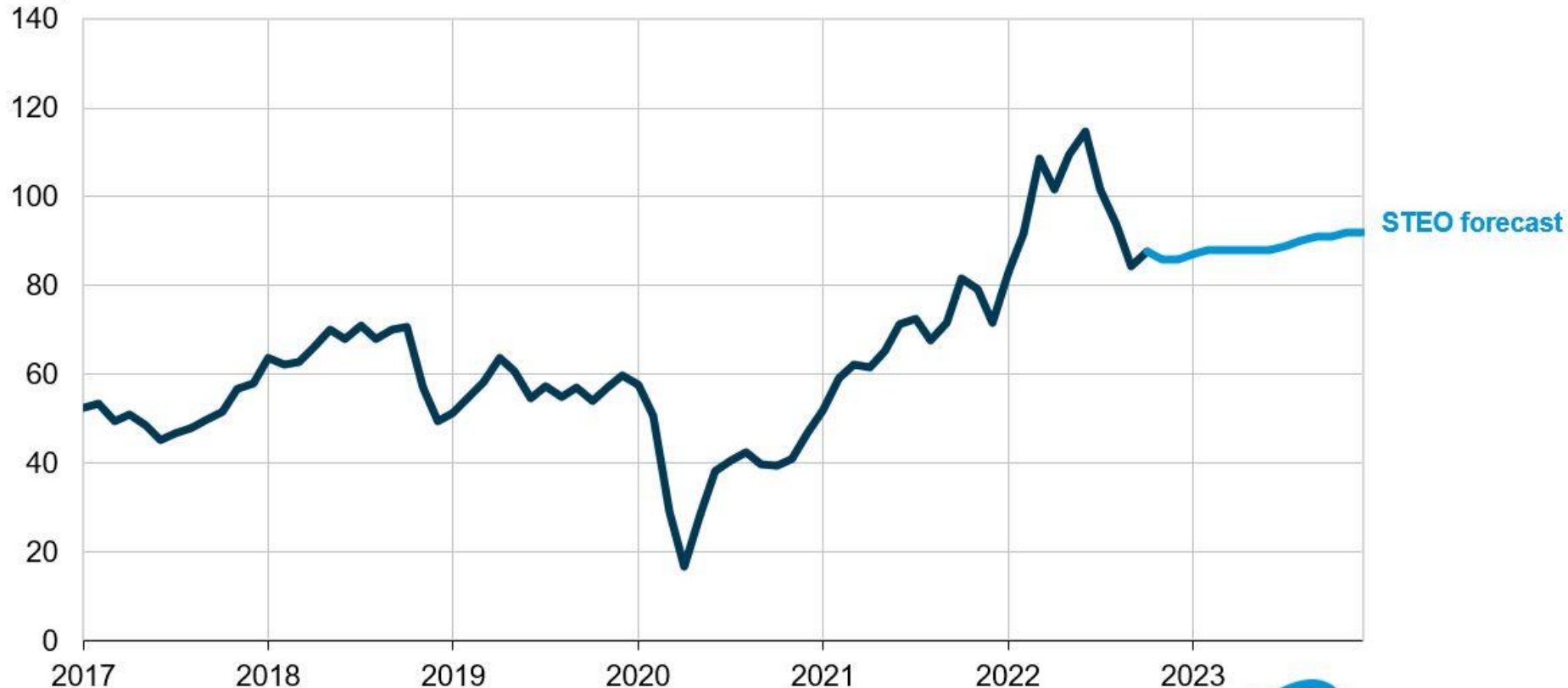


# Solving the Flaring Challenge



# EIA Oil Price Forecast: Nov. 2022

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

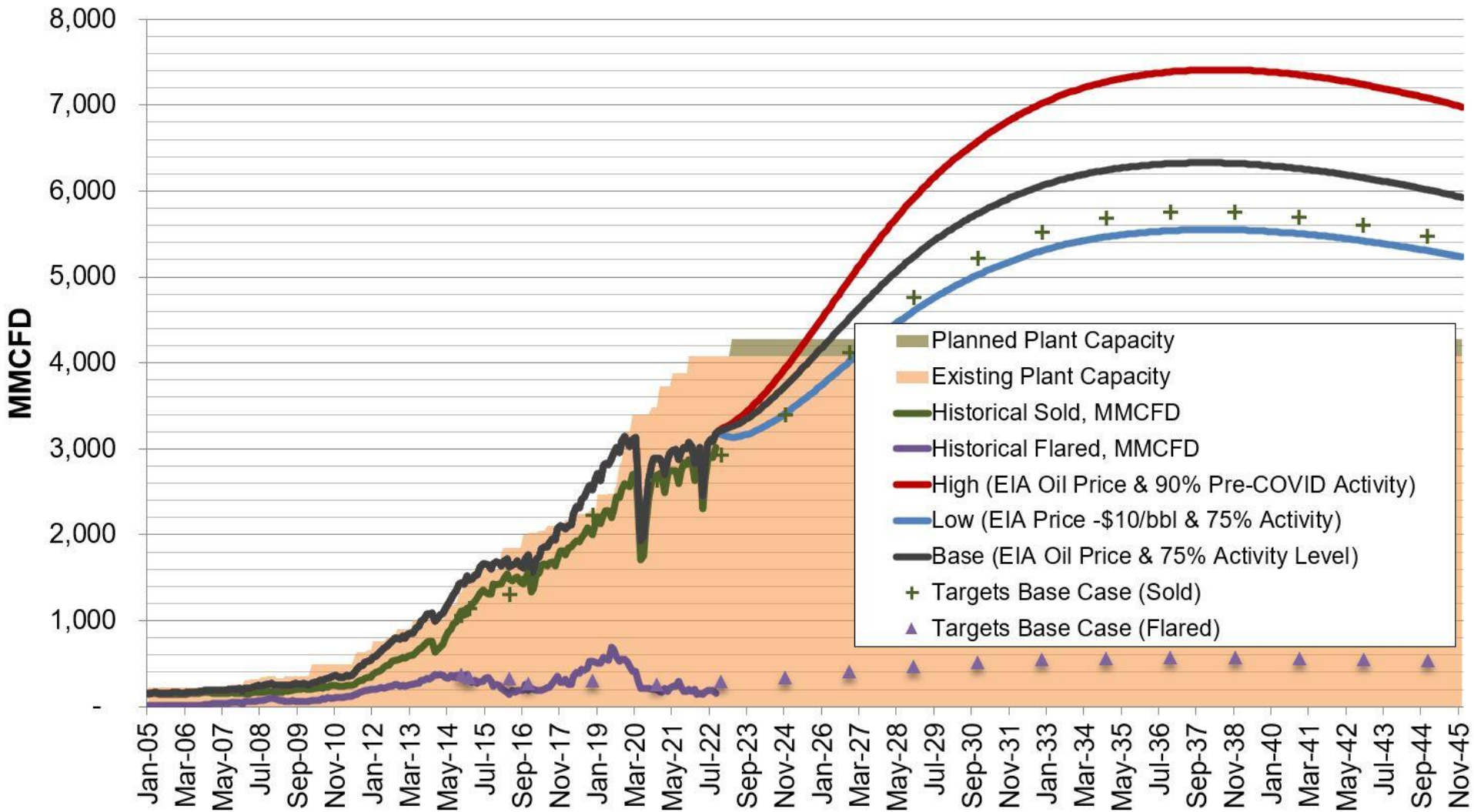


Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, November 2022

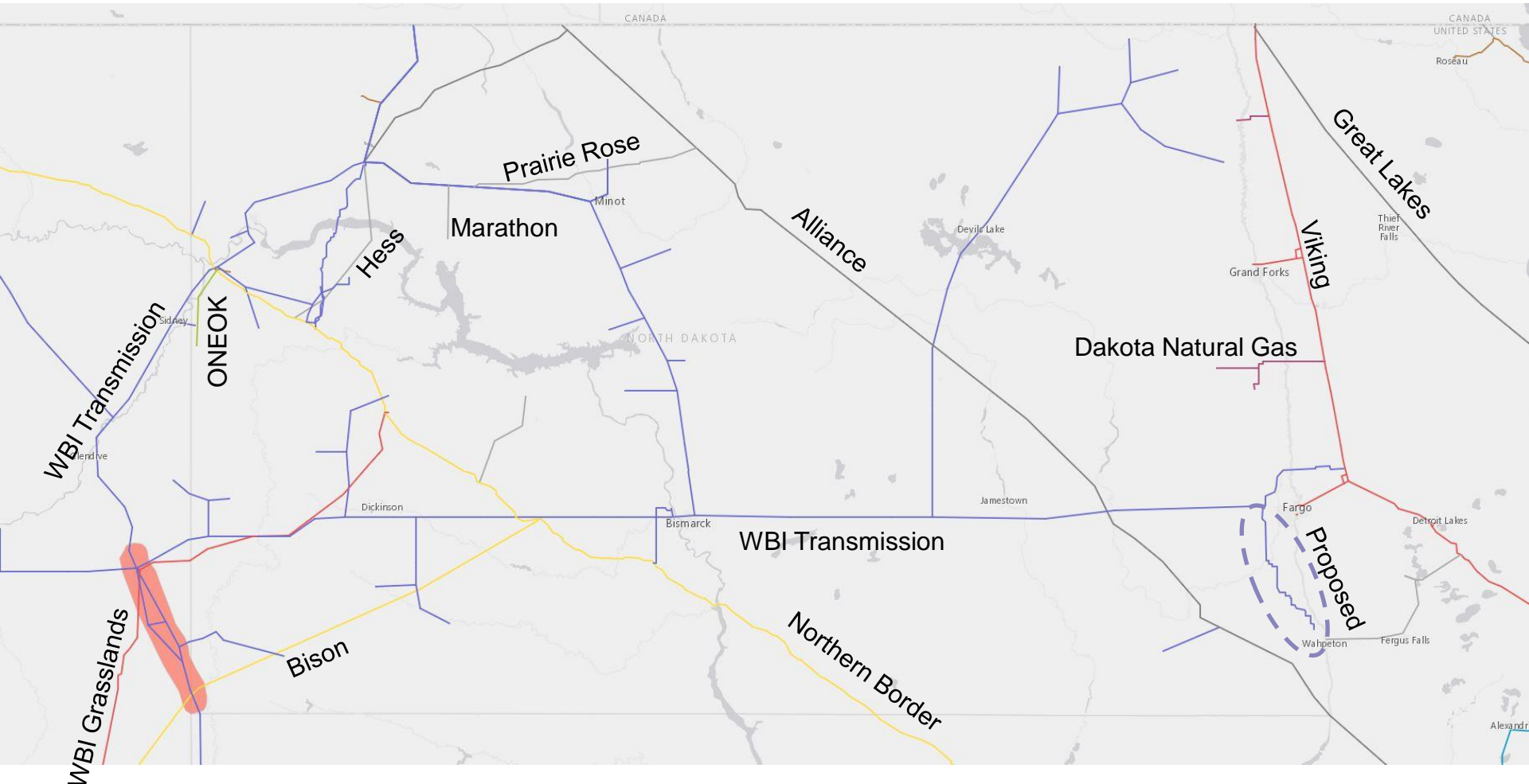




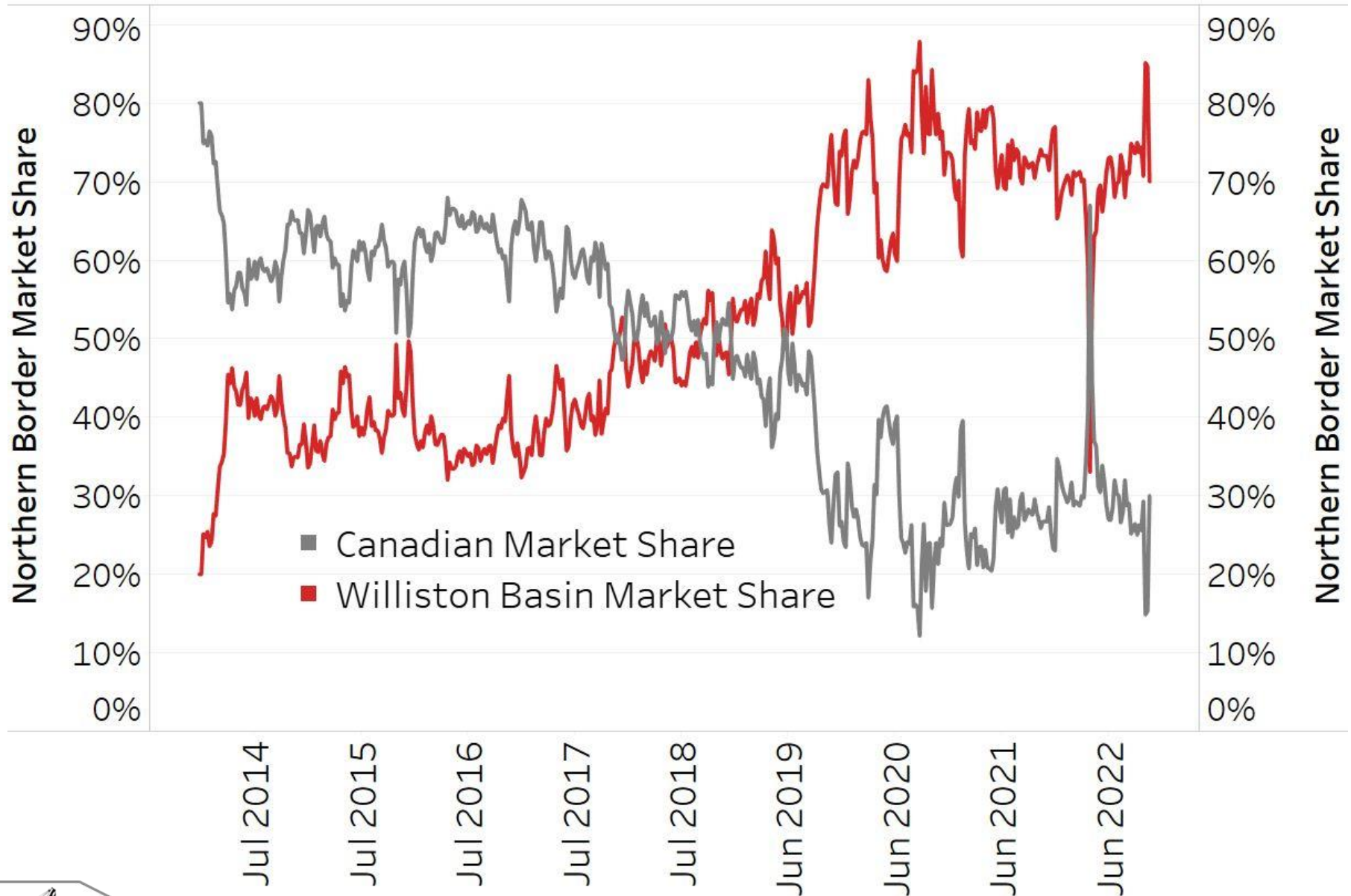
# Solving the Flaring Challenge



# Bakken Natural Gas Infrastructure

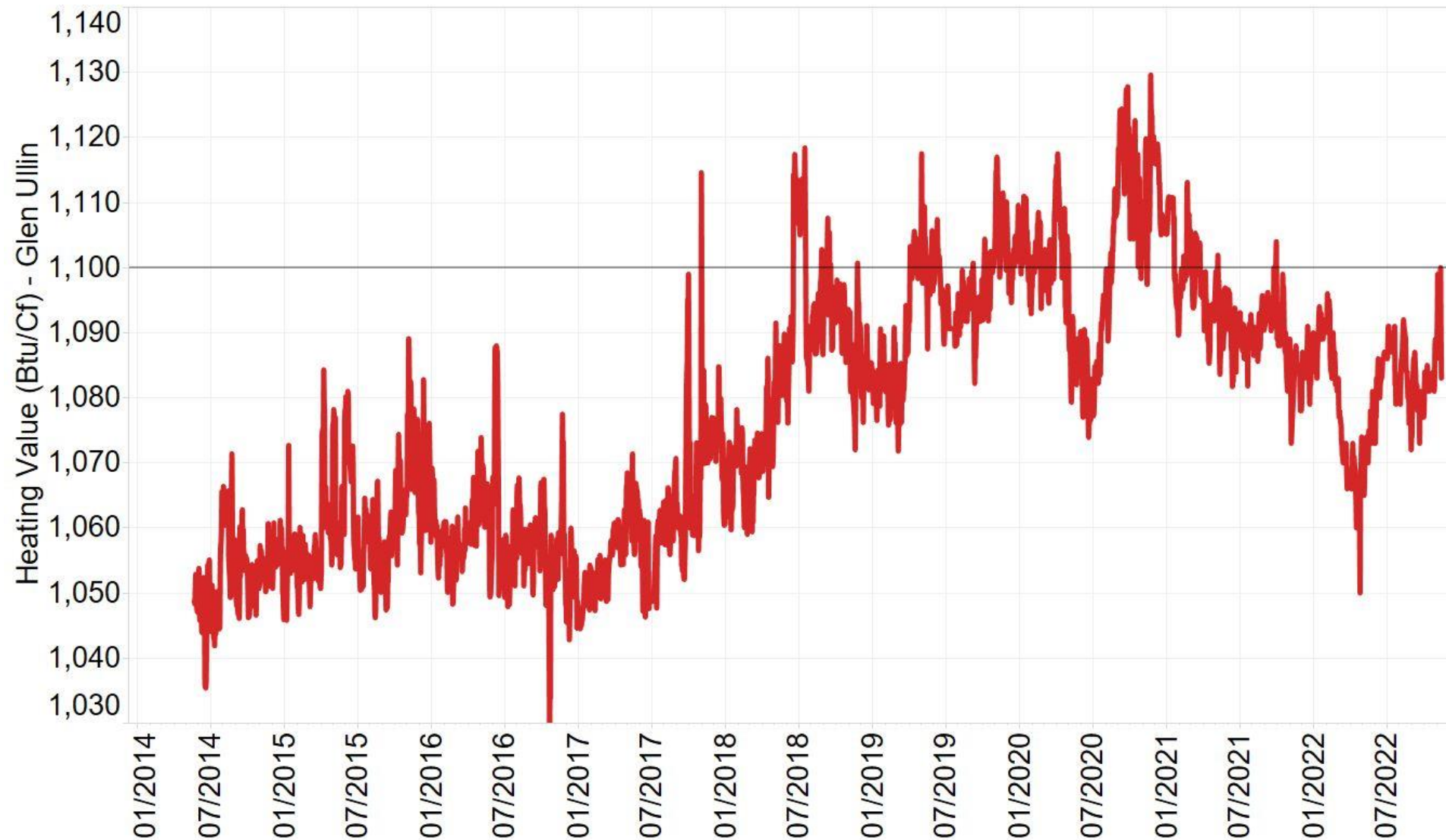


# Northern Border Pipeline Market Share

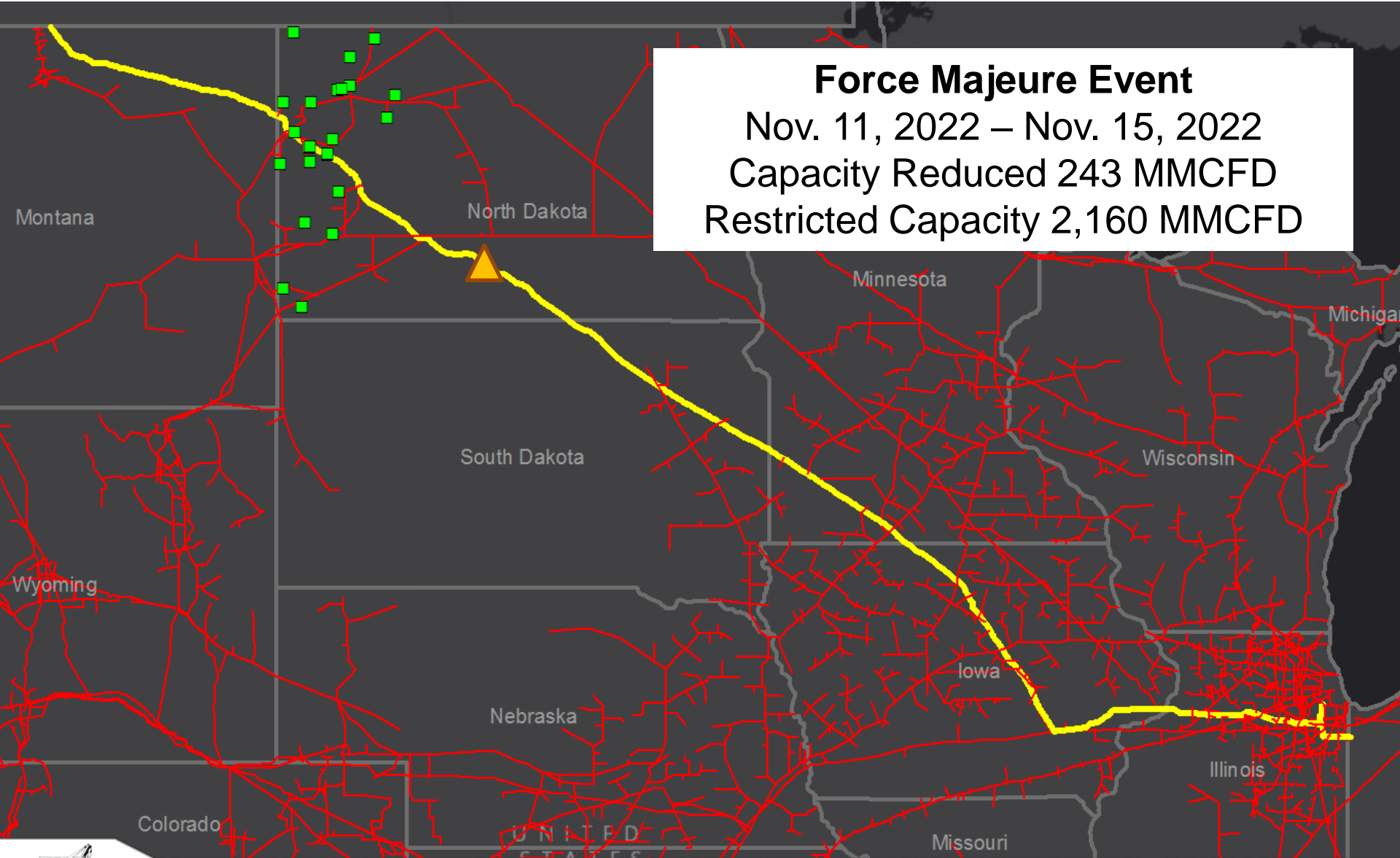




# Northern Border BTU at Glen Ullin, ND

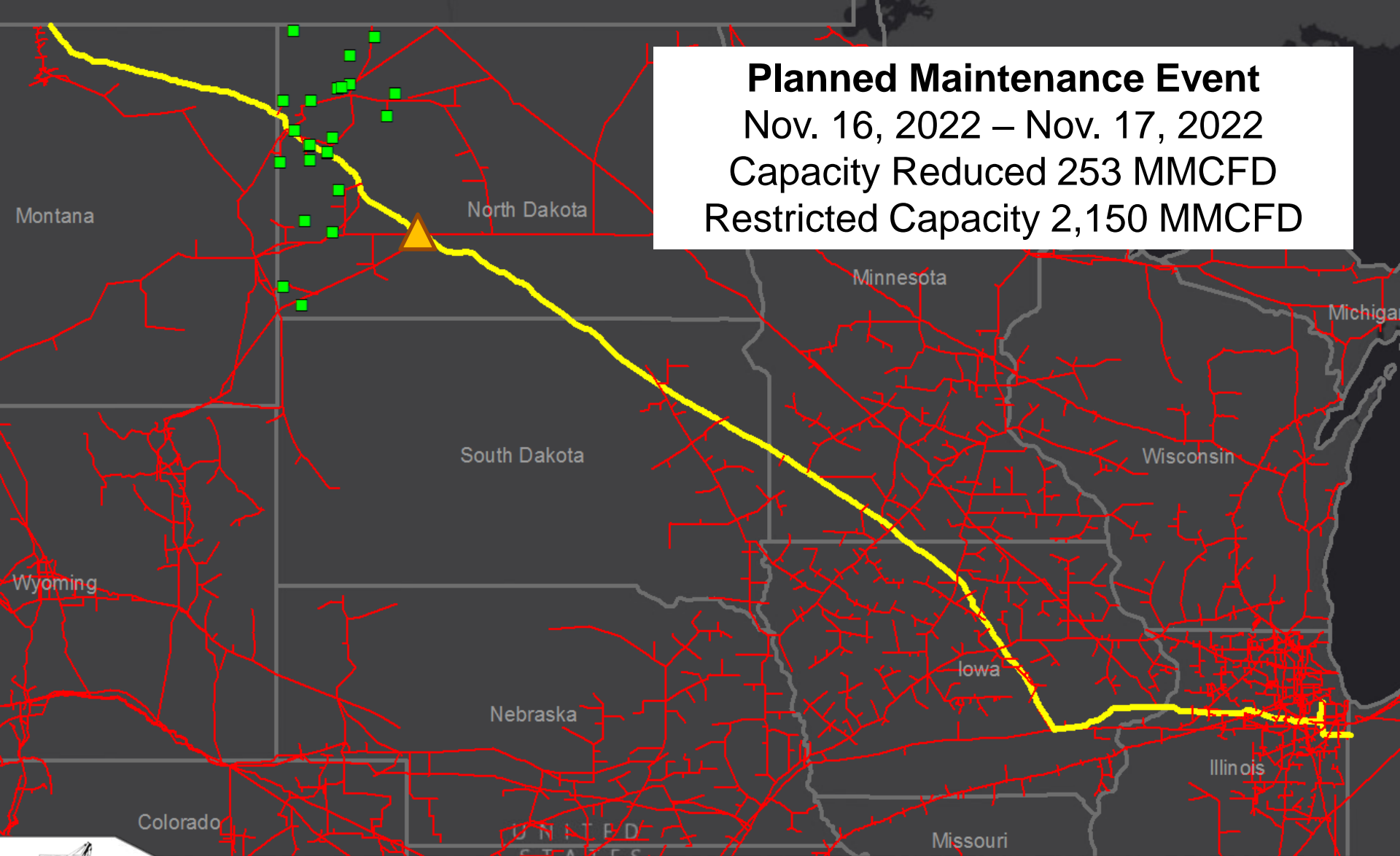


# St. Anthony Compressor Outage



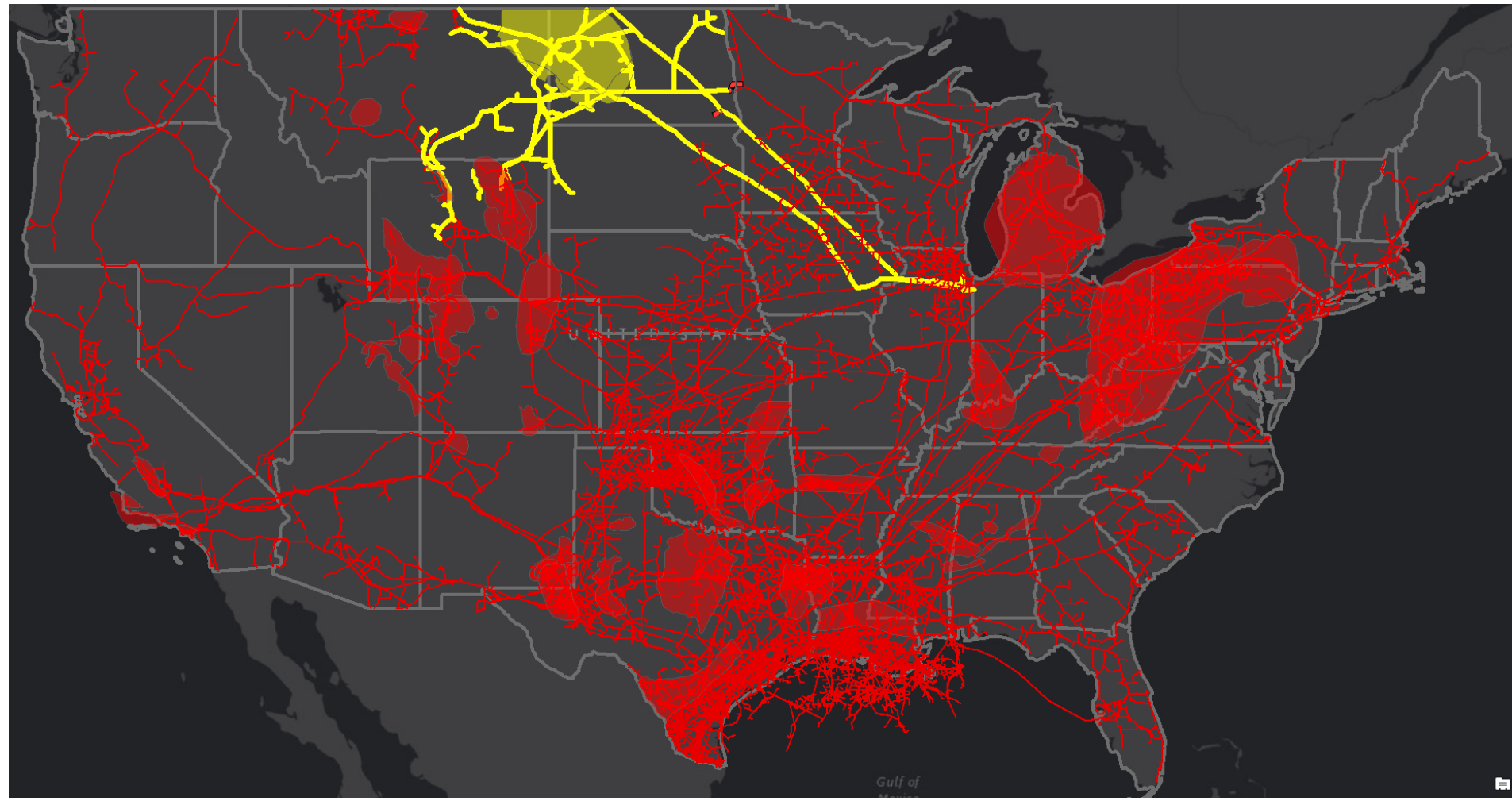
# Glen Ullin, ND Maintenance

**Planned Maintenance Event**  
Nov. 16, 2022 – Nov. 17, 2022  
Capacity Reduced 253 MMCFD  
Restricted Capacity 2,150 MMCFD





# Bakken Natural Gas Infrastructure



# Contact Information

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[www.northdakotapipelines.com](http://www.northdakotapipelines.com)



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