



# February 2023 Monthly Update North Dakota Pipeline Authority

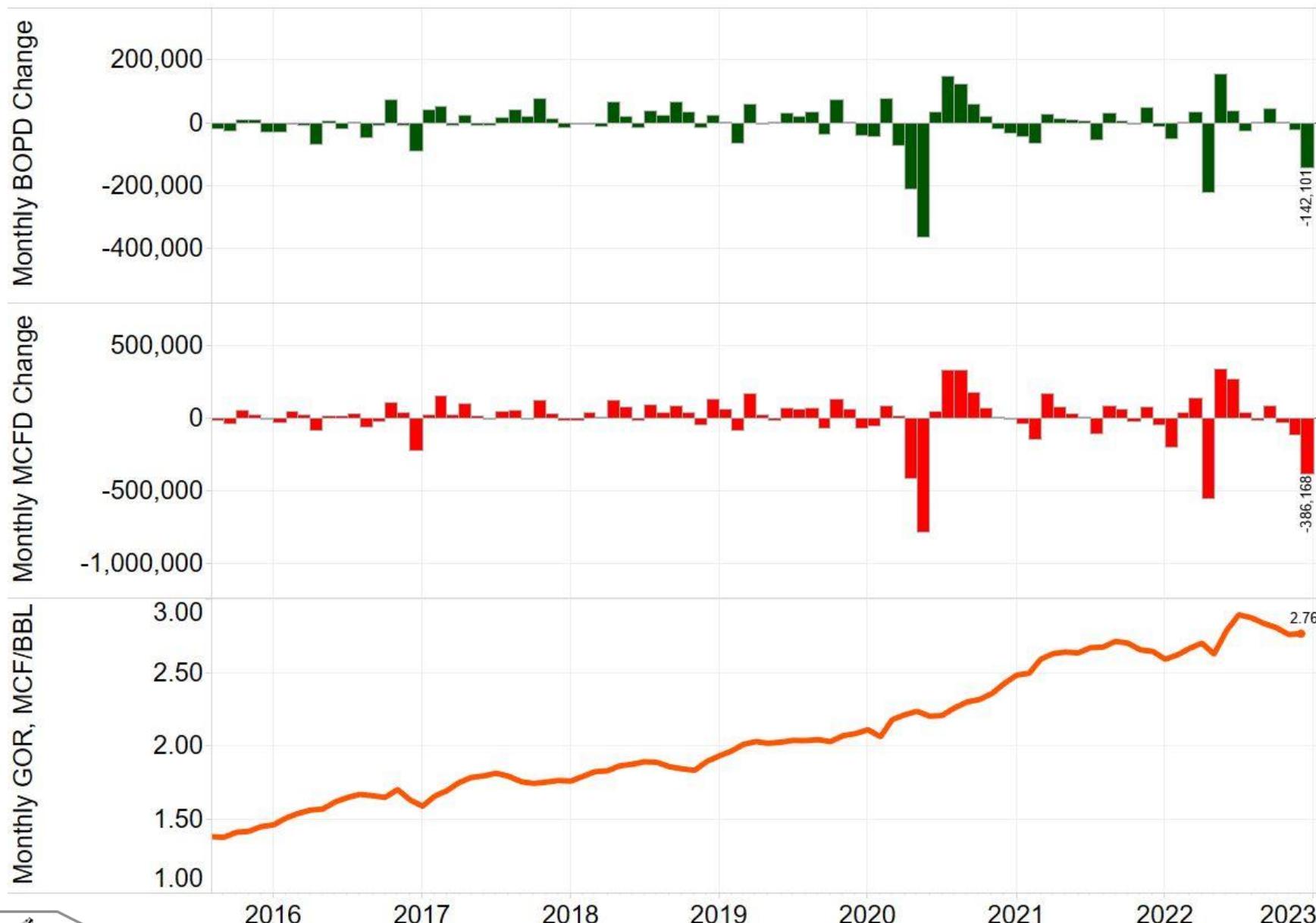
Justin J. Kringstad  
February 16, 2023

# US Williston Basin Oil Production - 2022

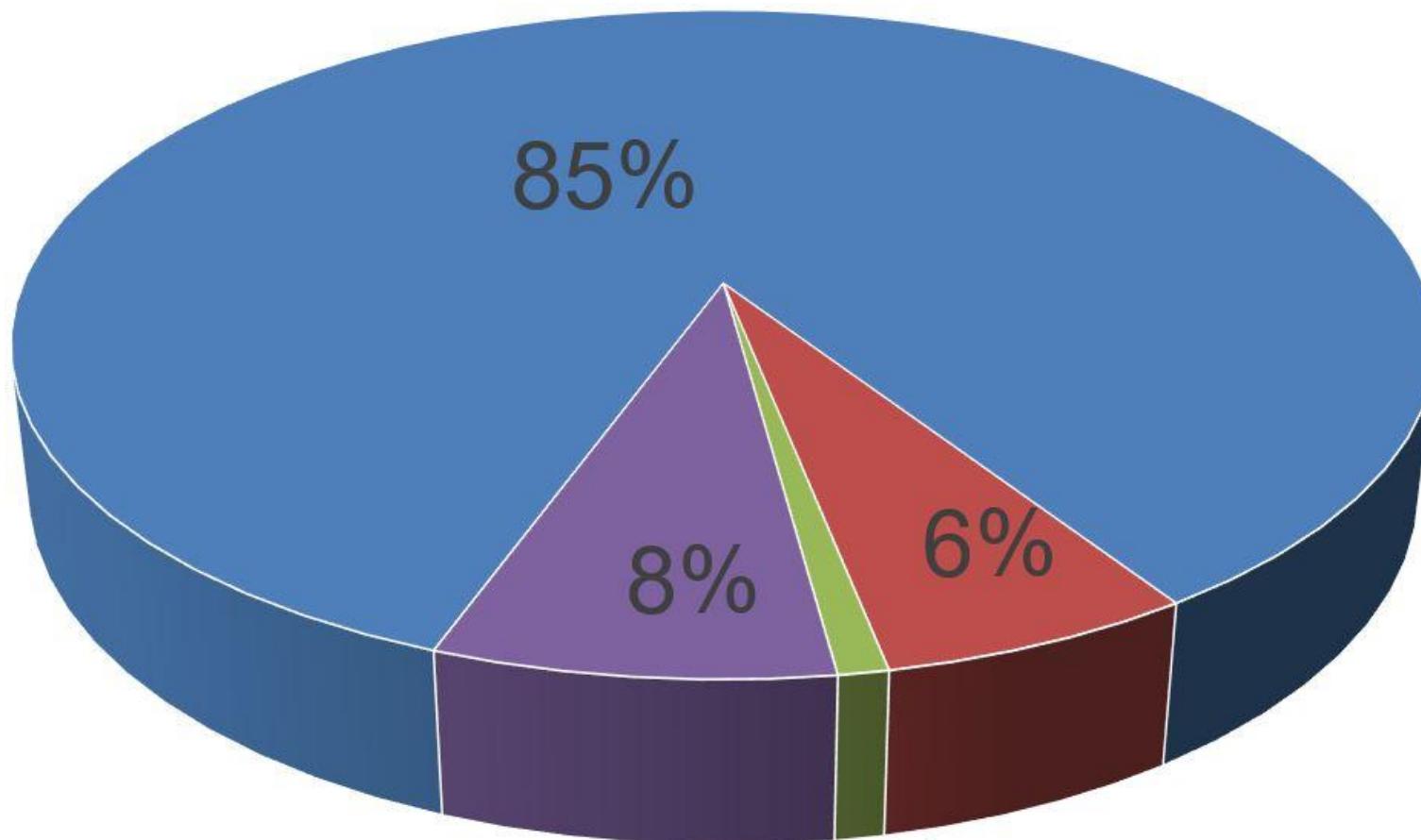
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,091,932	51,859	2,709	1,146,500
February	1,095,458	51,161	2,742	1,149,361
March	1,129,880	54,555	2,709	1,187,144
April	908,339	54,099	2,338	964,776
May	1,062,157	52,483	2,648	1,117,288
June	1,099,408	63,258	2,764	1,165,430
July	1,073,610	60,568	2,774	1,136,952
August	1,075,289	60,395	2,756	1,138,440
September	1,121,063	57,637	2,679	1,181,379
October	1,121,754		2,621	
November	1,098,389		2,682	
December	956,288			



# North Dakota Monthly Production Change



# Estimated Williston Basin Oil Transportation



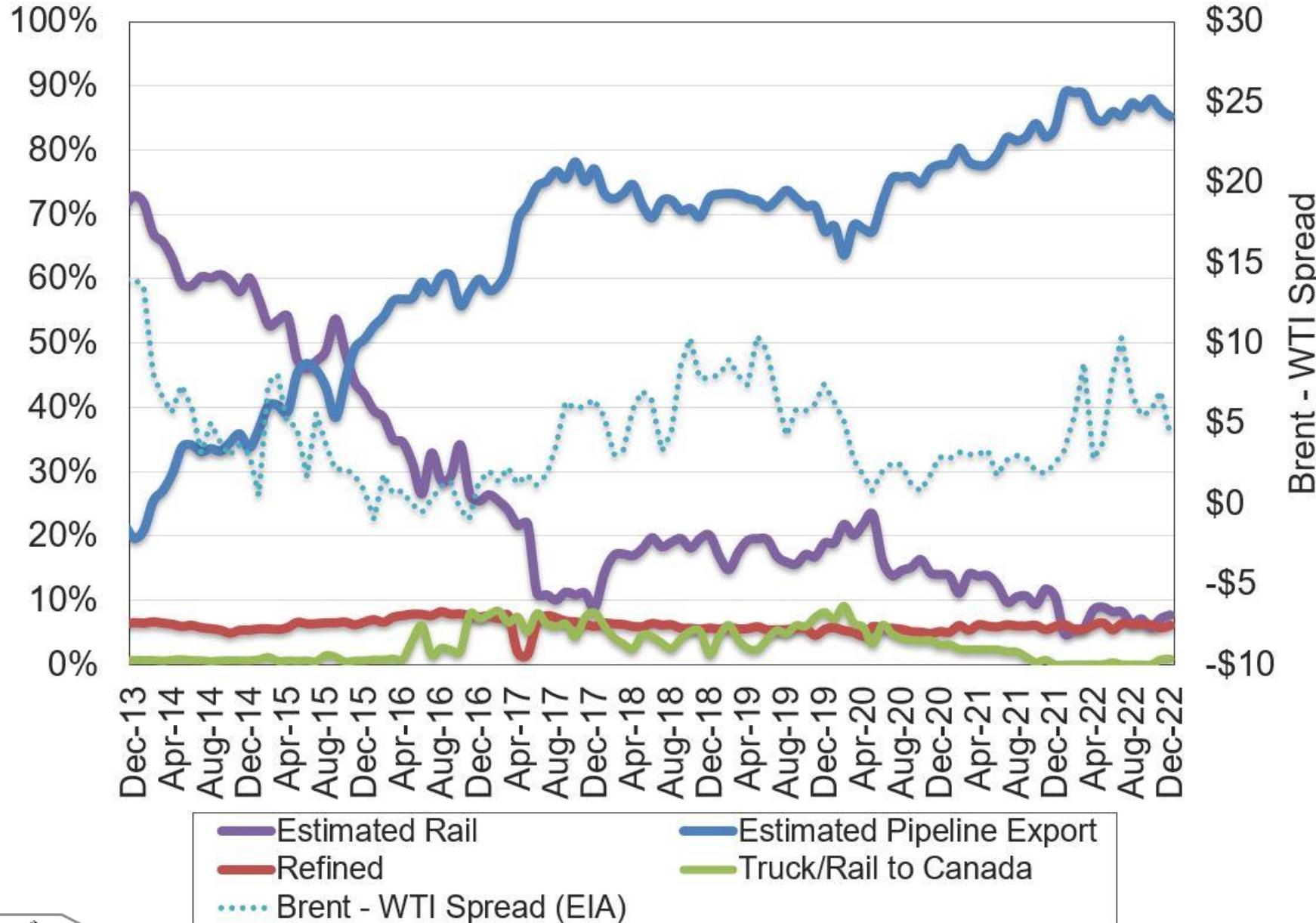
- Pipeline Export
- Truck/Rail to Canada

- Refined
- Estimated Rail

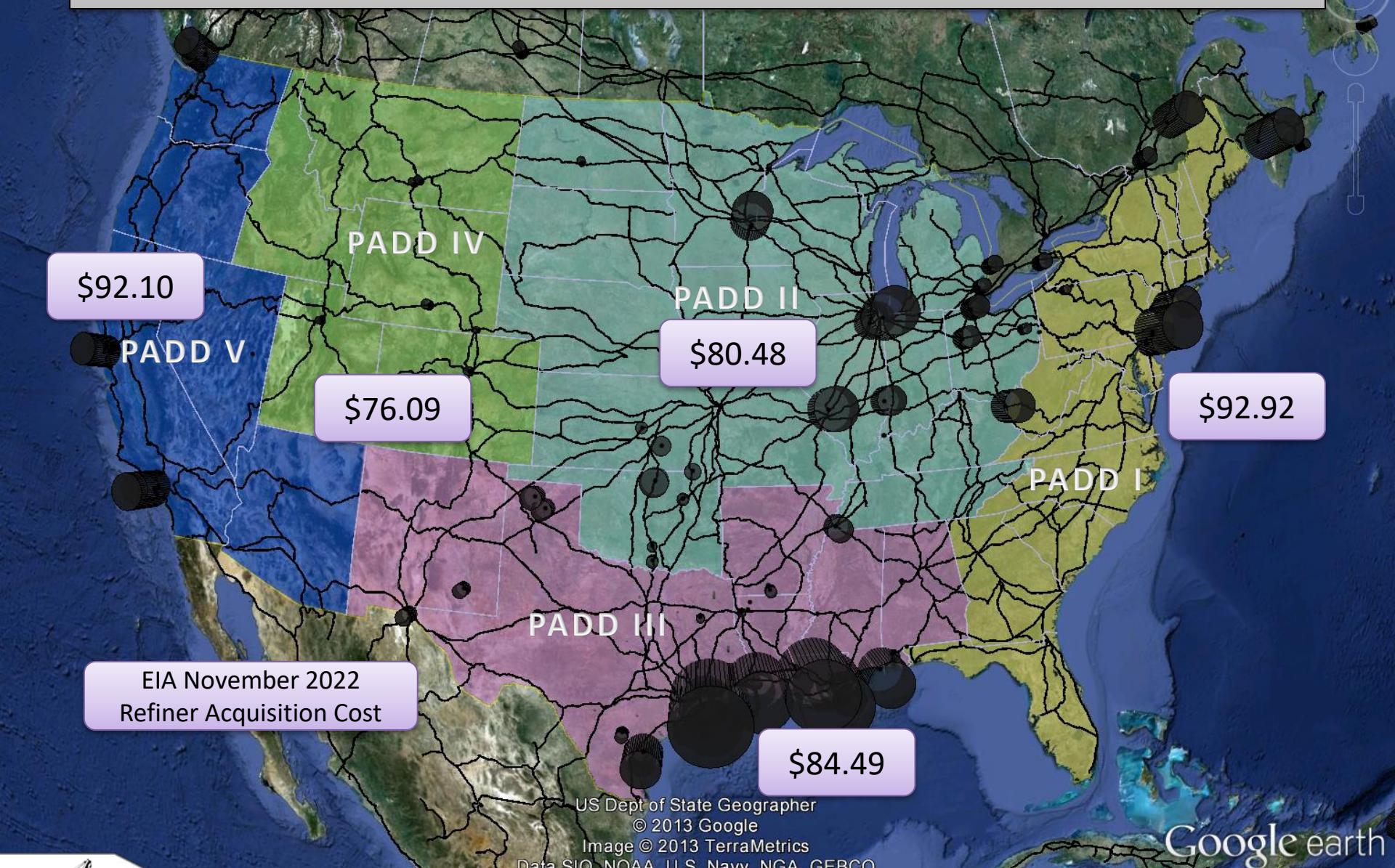
December 2022



# Estimated Williston Basin Oil Transportation



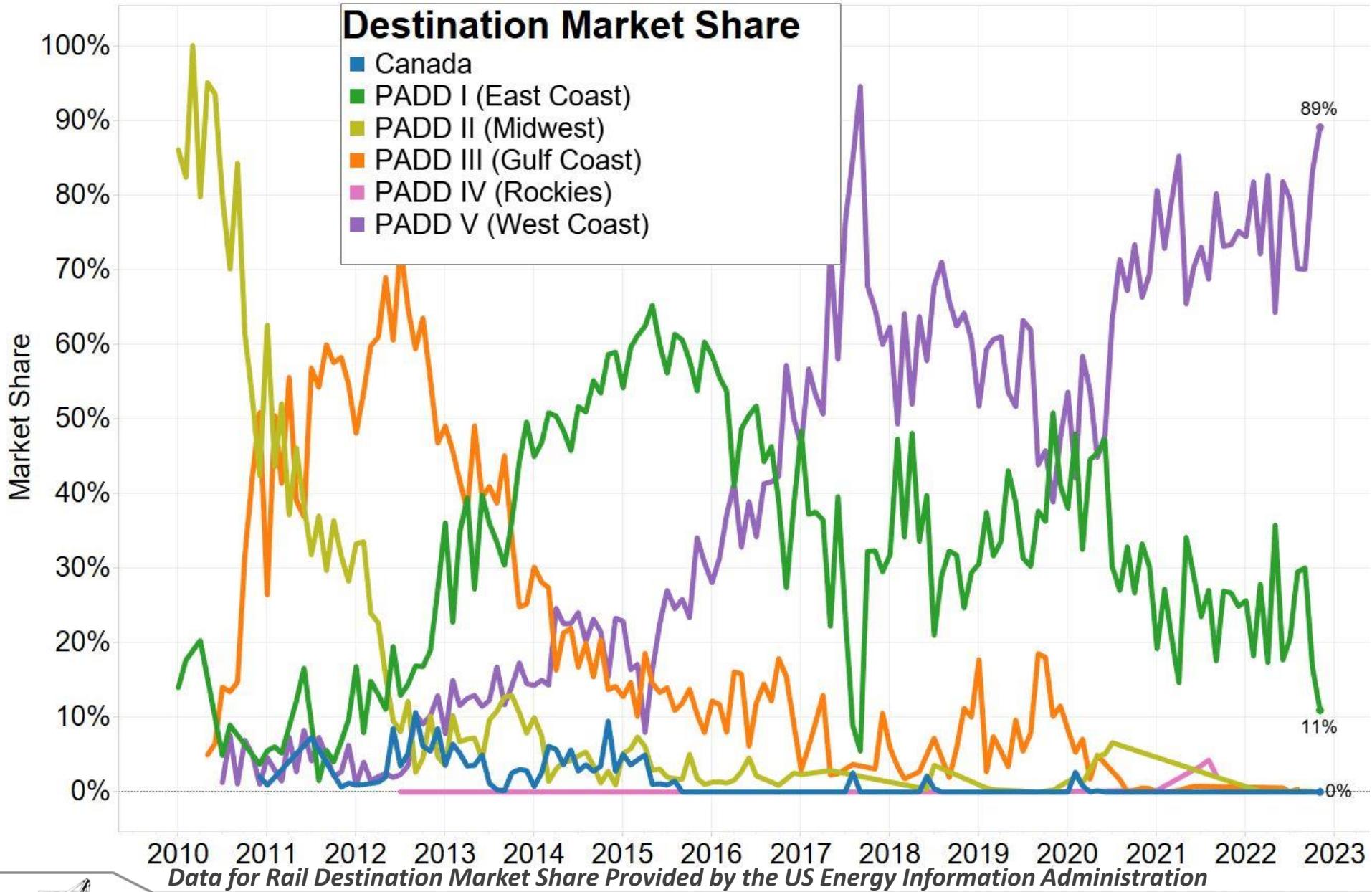
# Major Rail Lines and Refineries



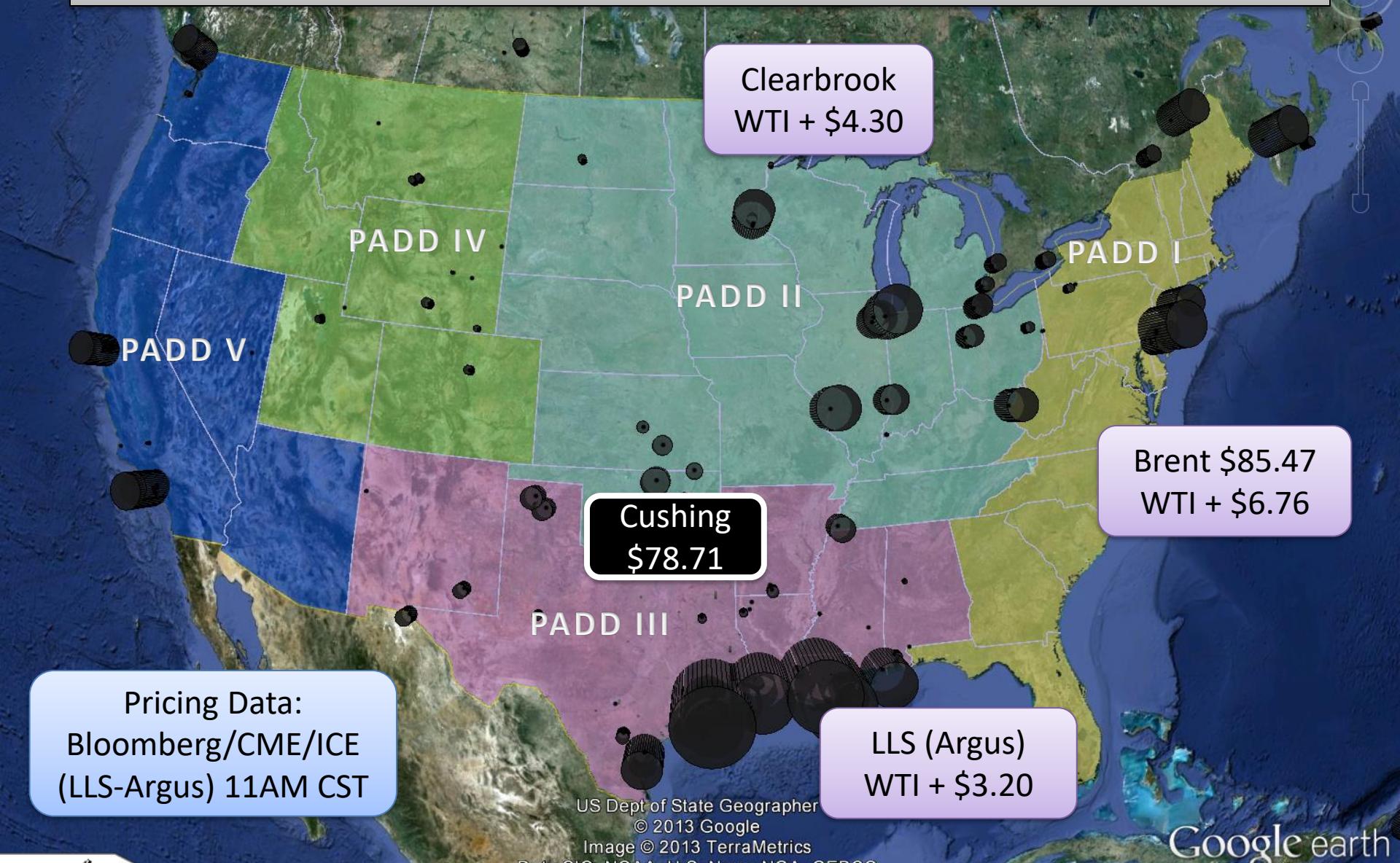
# Estimated ND Rail Export Volumes



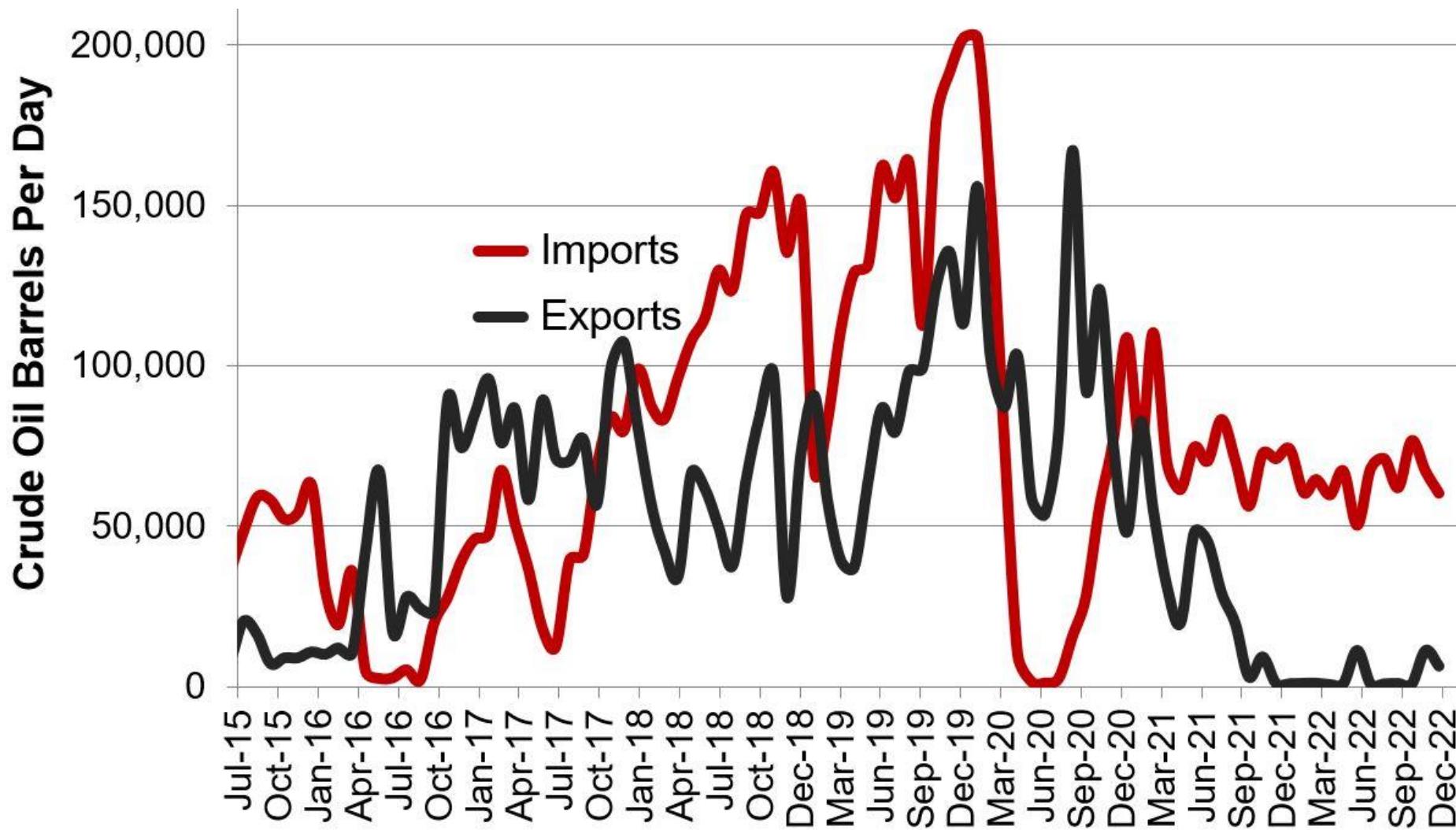
# Rail Destinations Market Share (Nov. 2022)



# Crude Oil Prices – Feb. 16, 2023



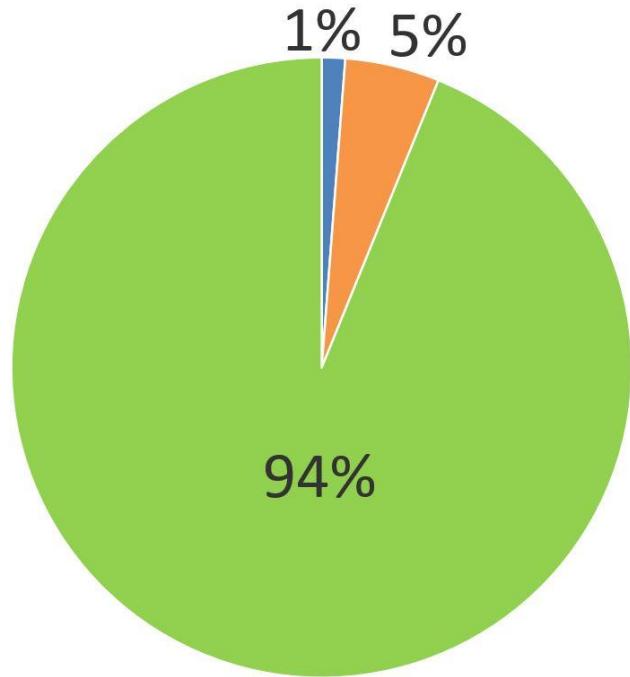
# Williston Basin Truck/Rail Imports and Exports with Canada



*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.

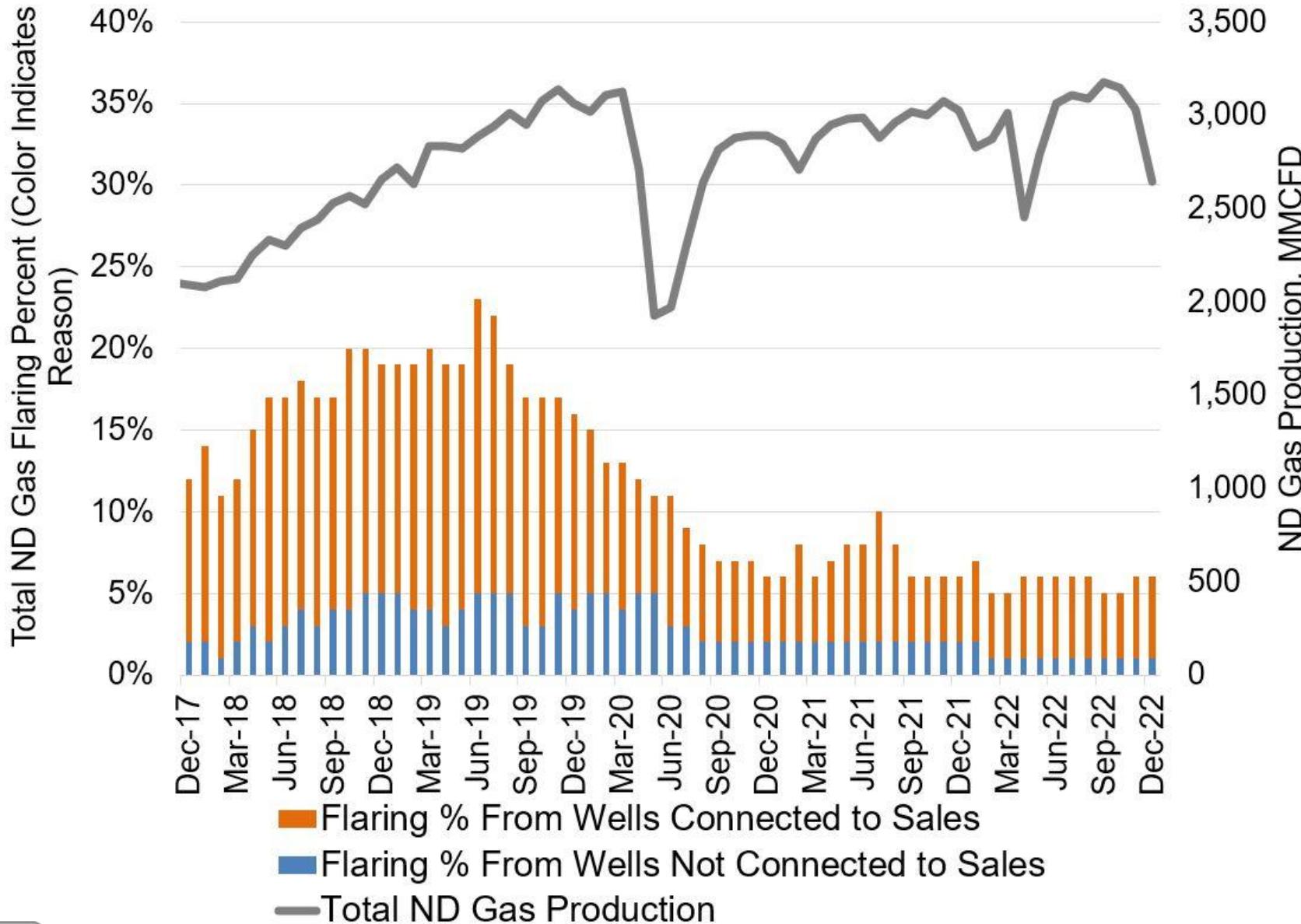
## Simple Terms

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

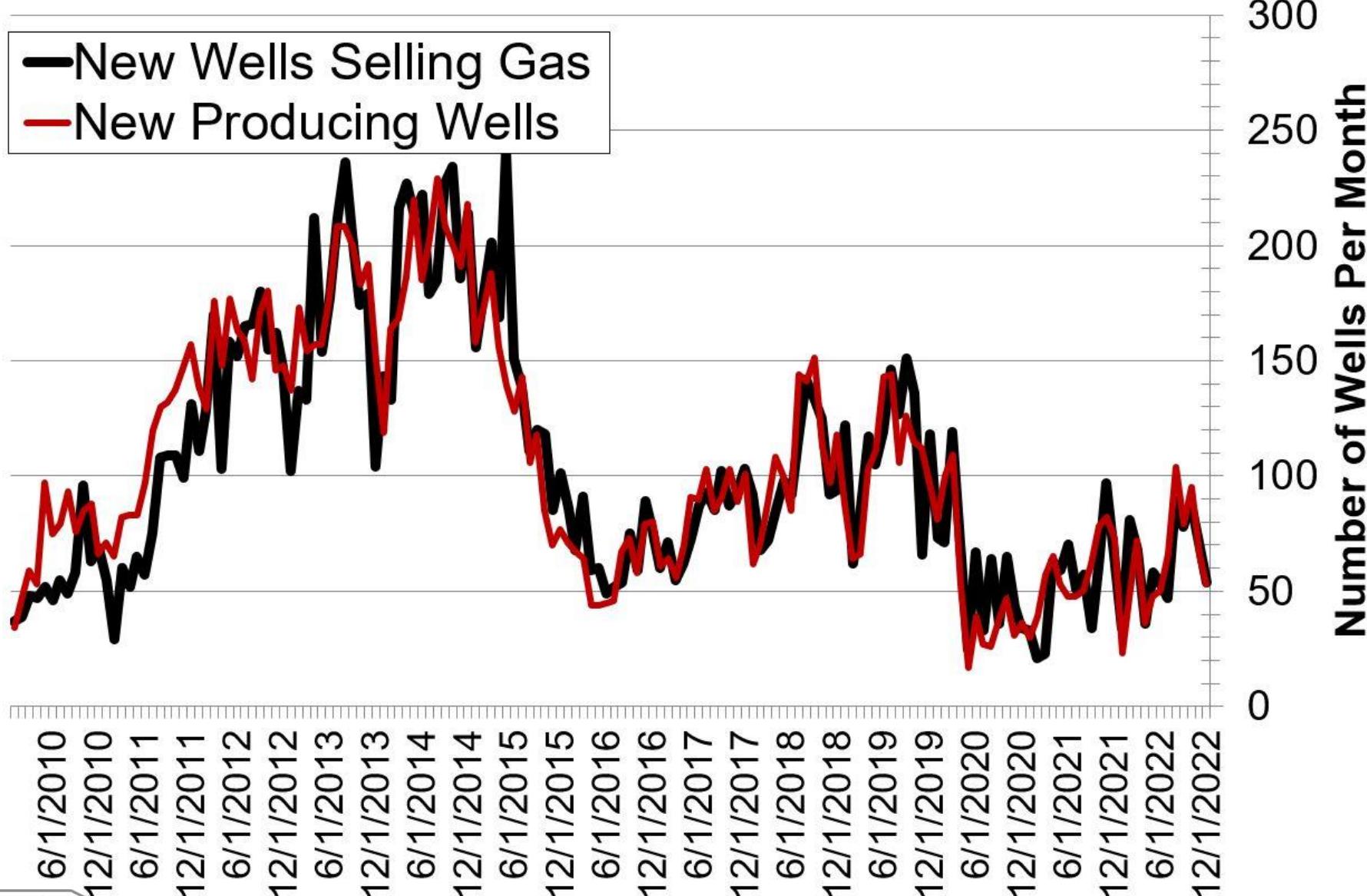
Dec. 2022 Data – Non-Confidential Wells



# Solving the Flaring Challenge



# Solving the Flaring Challenge



# EIA Oil Price Forecast: Feb. 2023

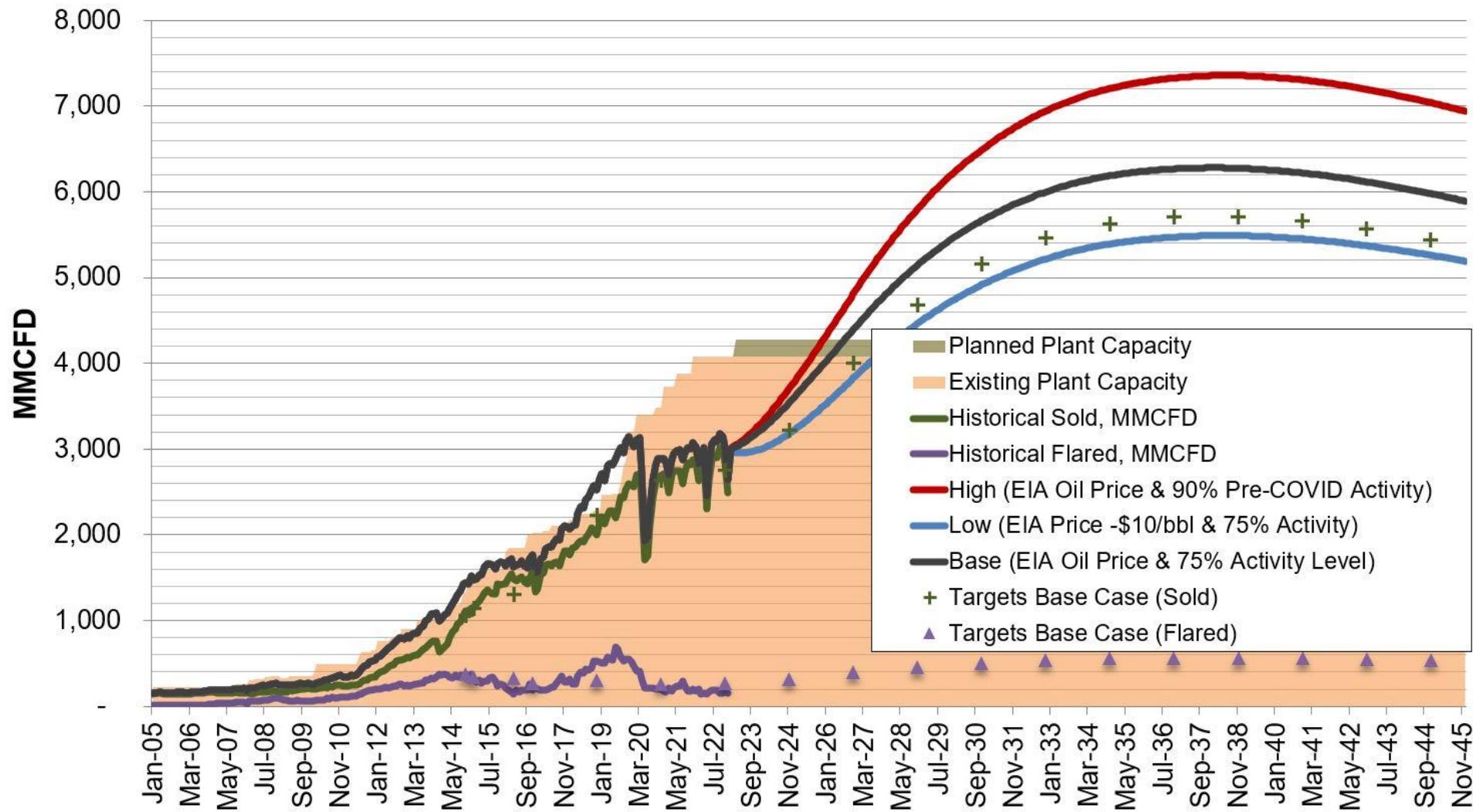
**West Texas Intermediate (WTI) crude oil price**  
dollars per barrel



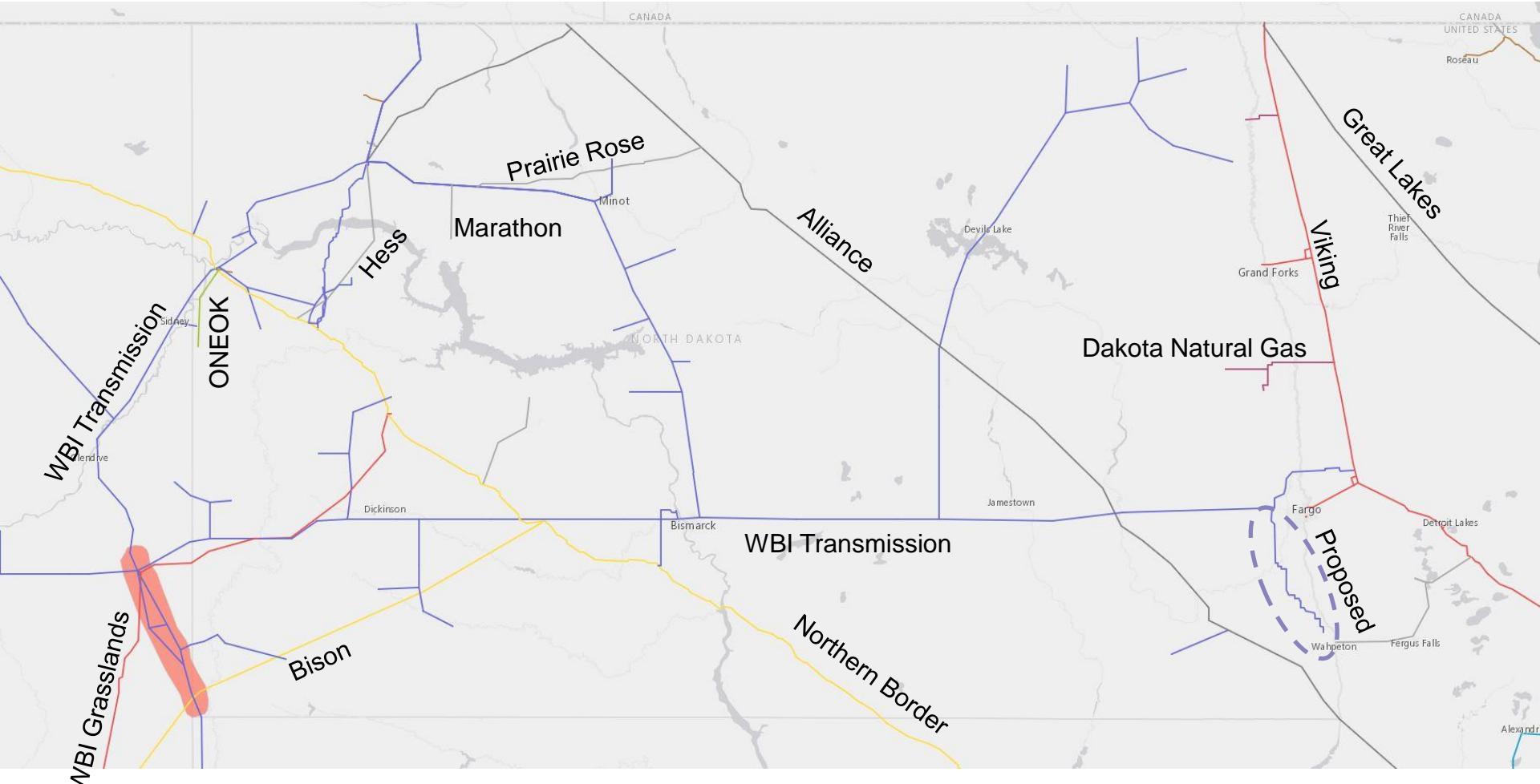
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2023



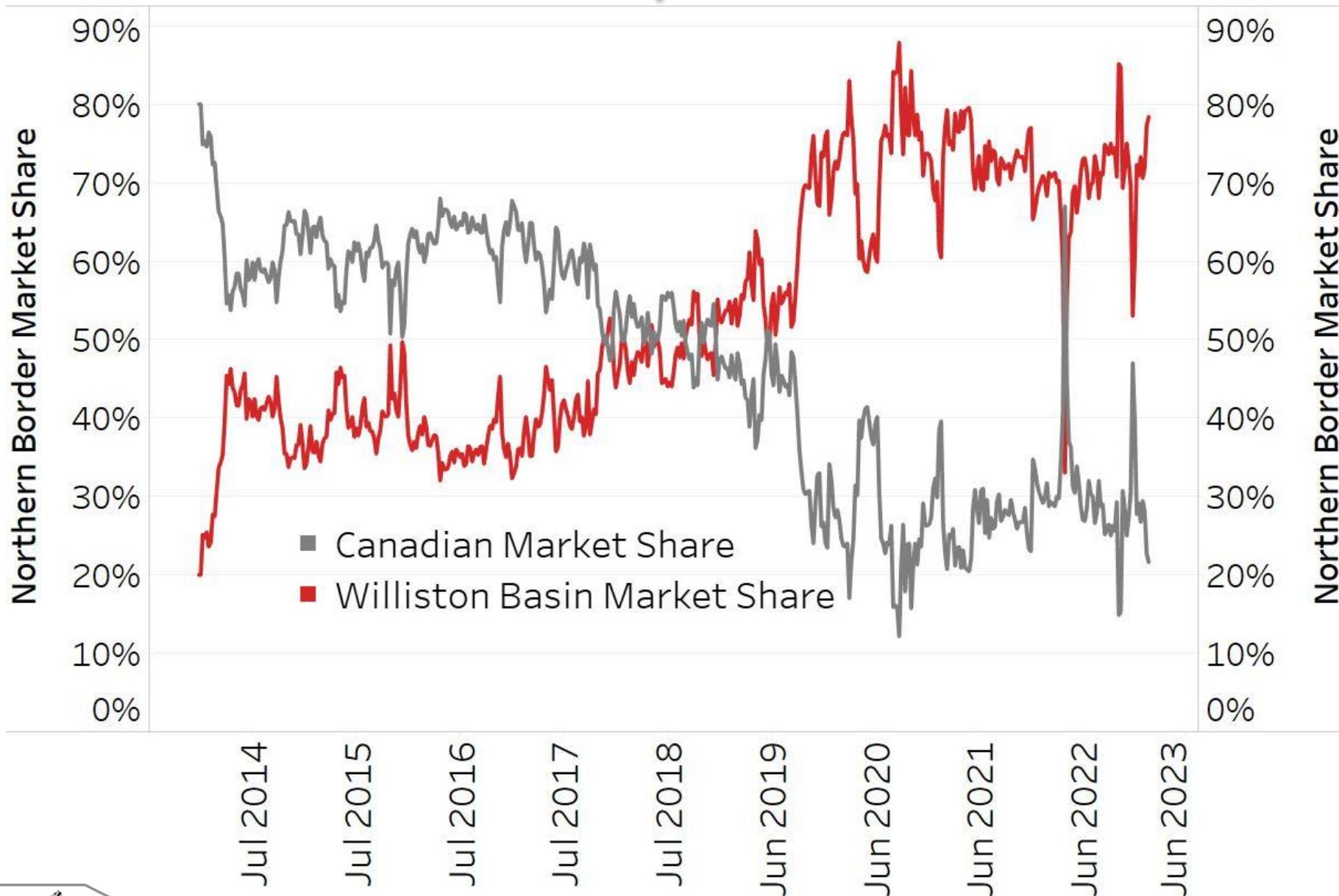
# Solving the Flaring Challenge



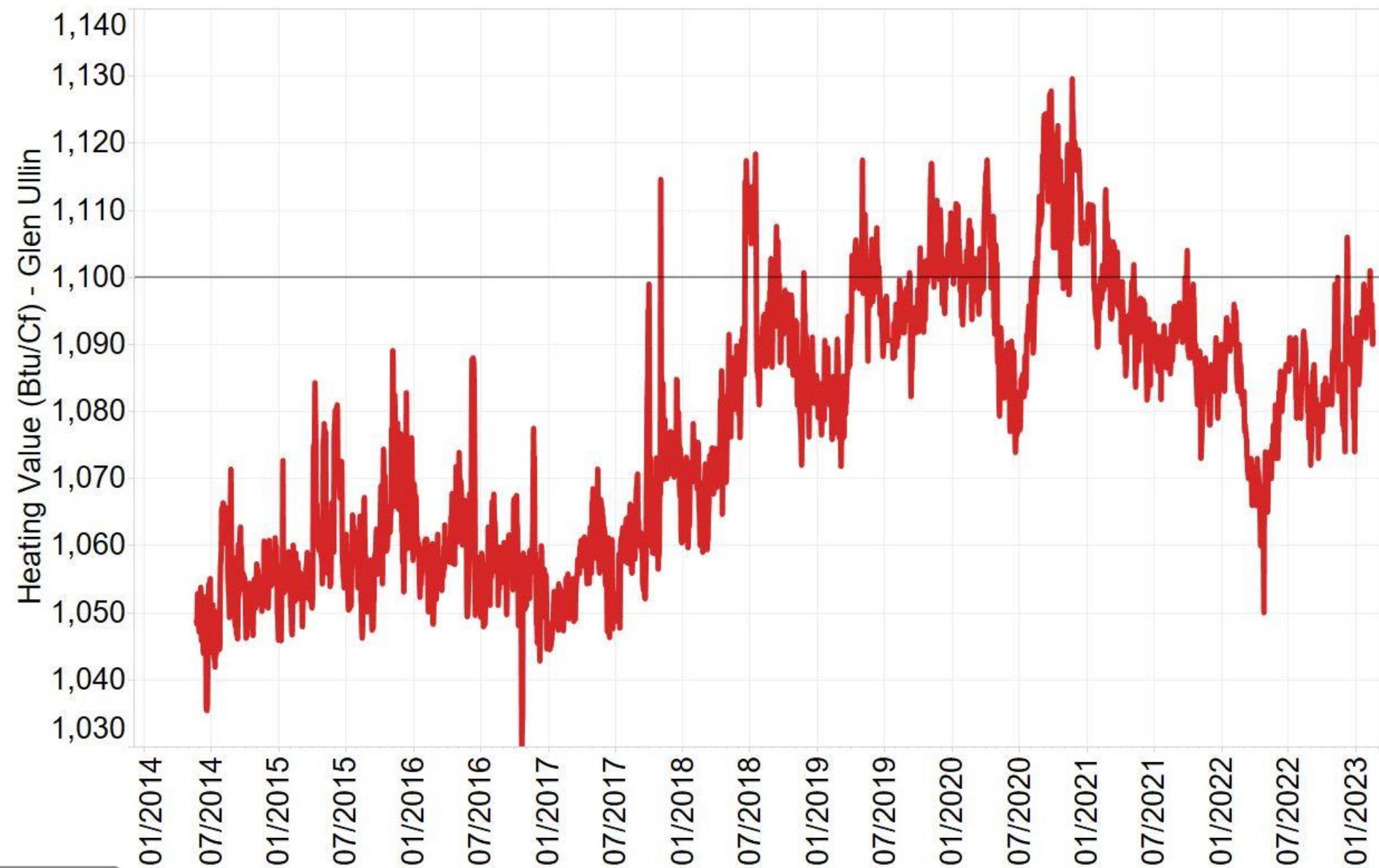
# Bakken Natural Gas Infrastructure



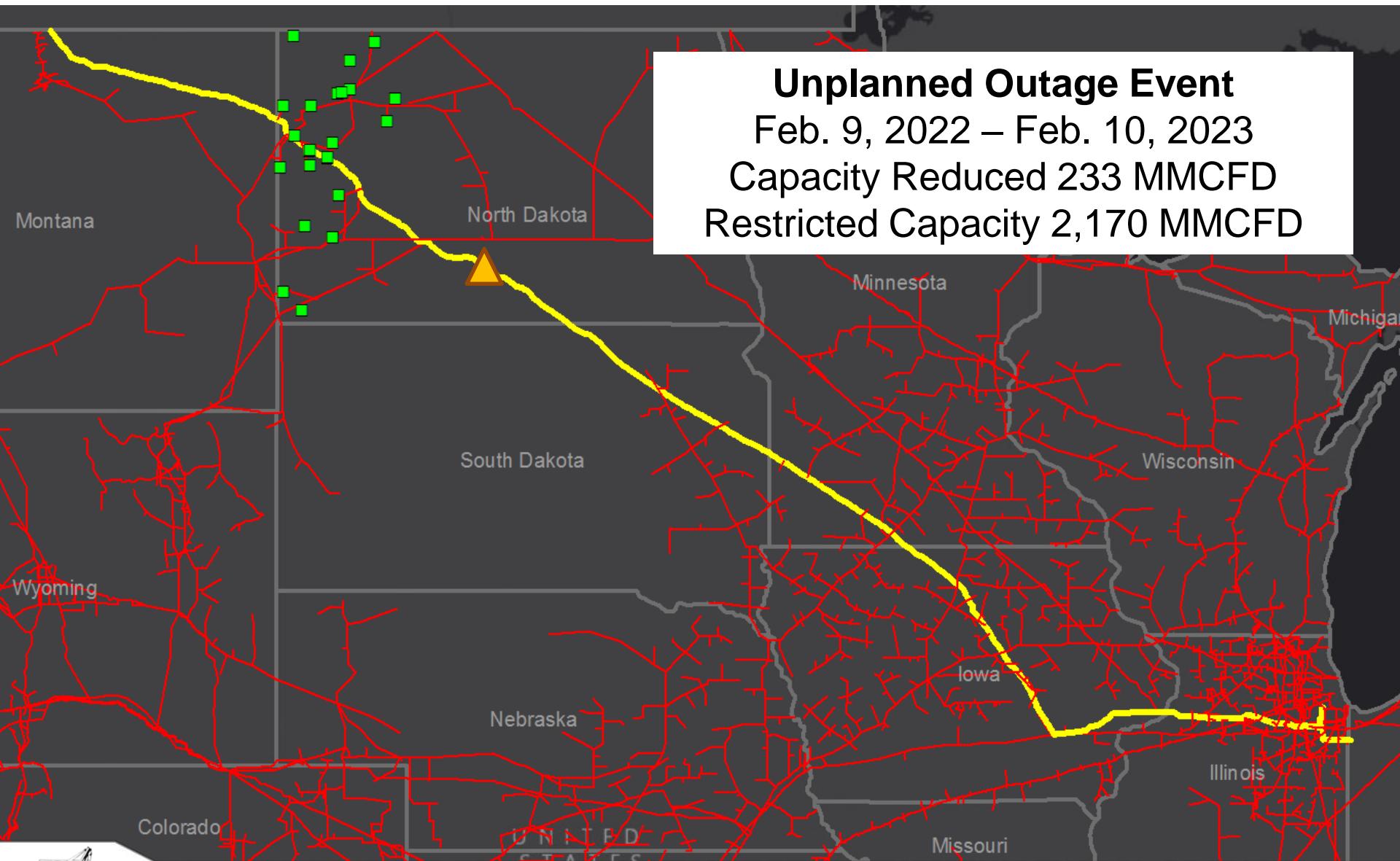
# Northern Border Pipeline Market Share



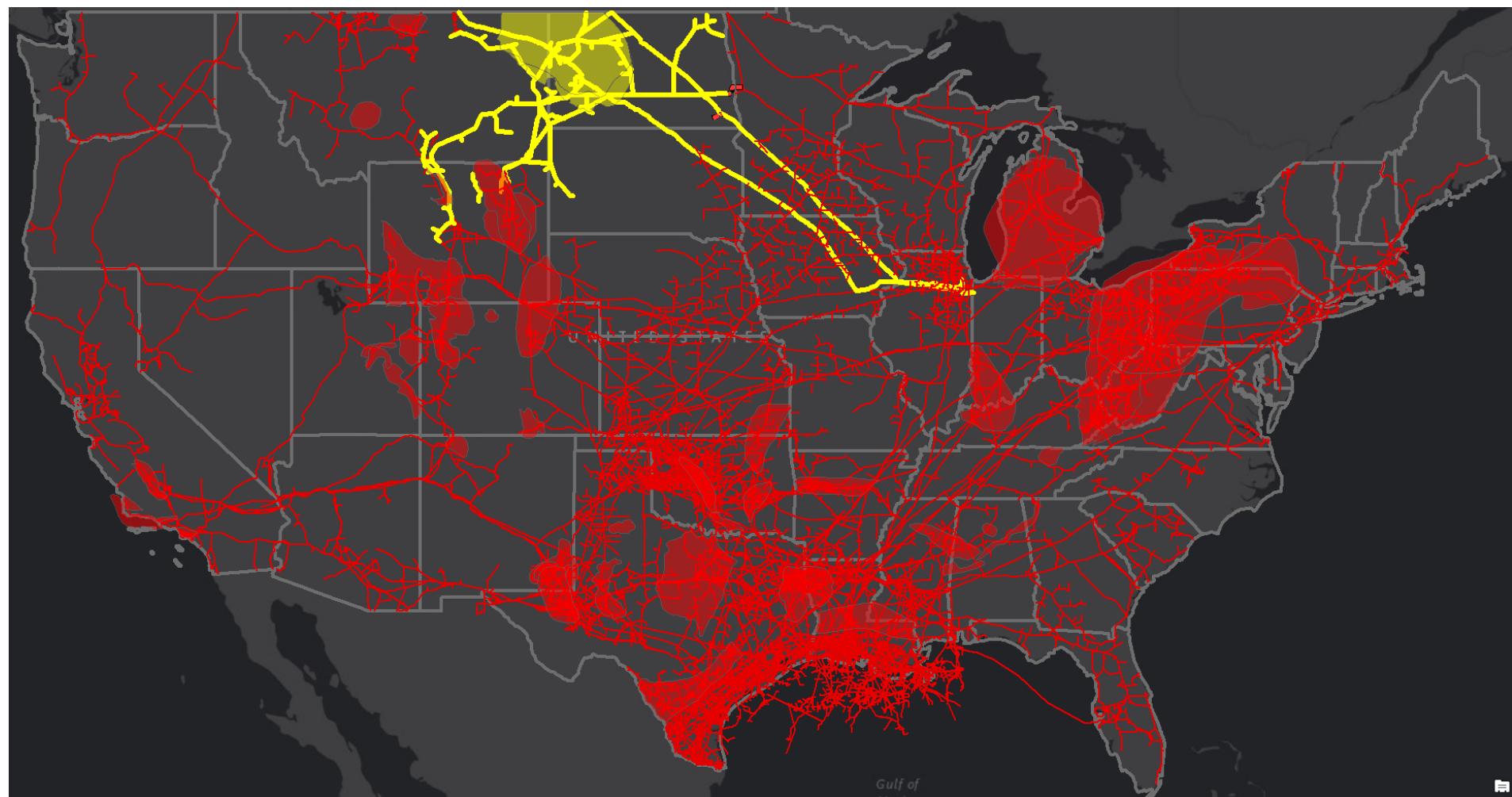
# Northern Border BTU at Glen Ullin, ND



# St. Anthony Compressor Outage



# Bakken Natural Gas Infrastructure



# Contact Information

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



JJ Kringstad - North Dakota Pipeline Authority

Websites:

[www.pipeline.nd.gov](http://www.pipeline.nd.gov)

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

