



# October 2023 Monthly Update North Dakota Pipeline Authority

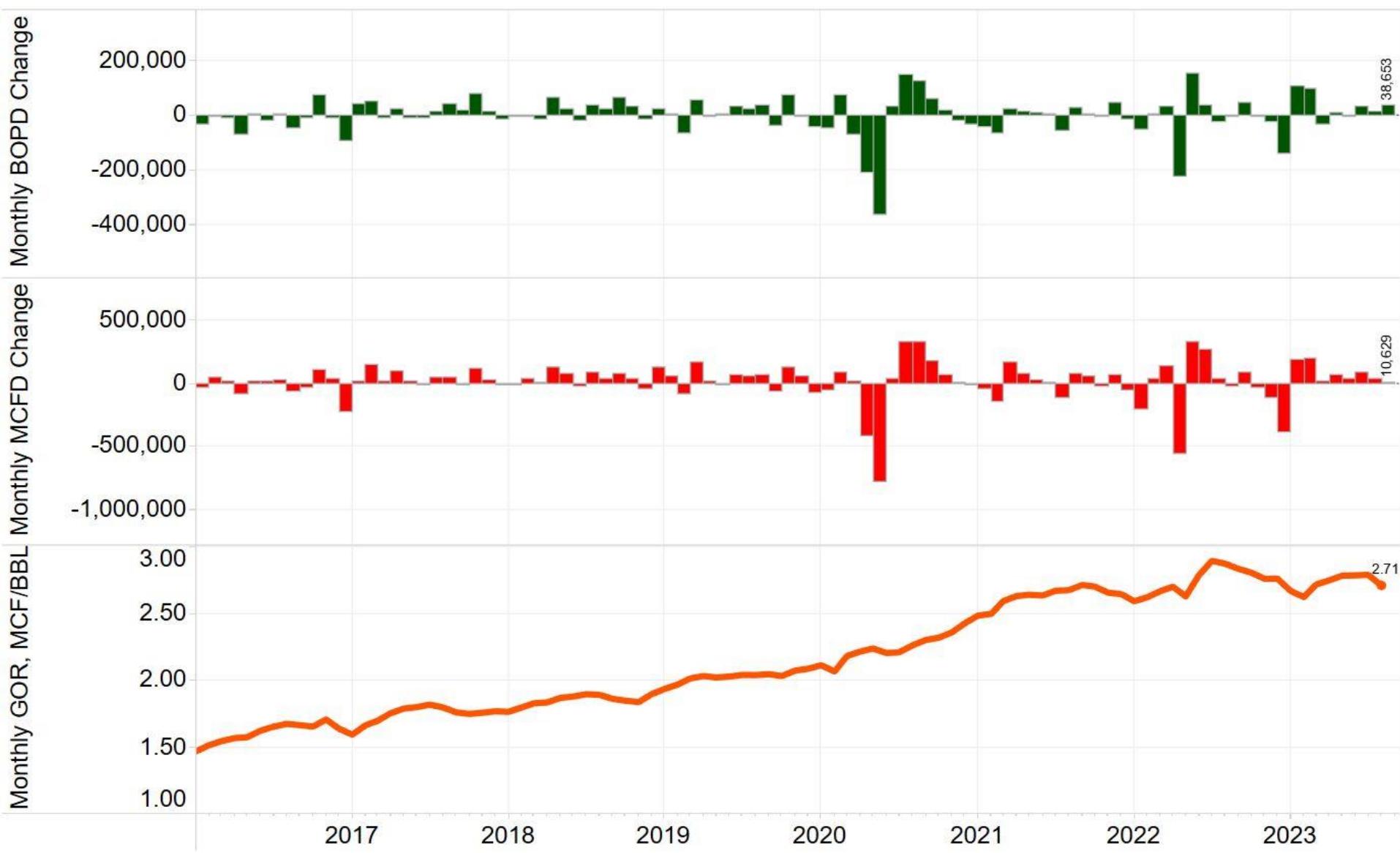
Justin J. Kringstad  
October 12, 2023

# US Williston Basin Oil Production - 2023

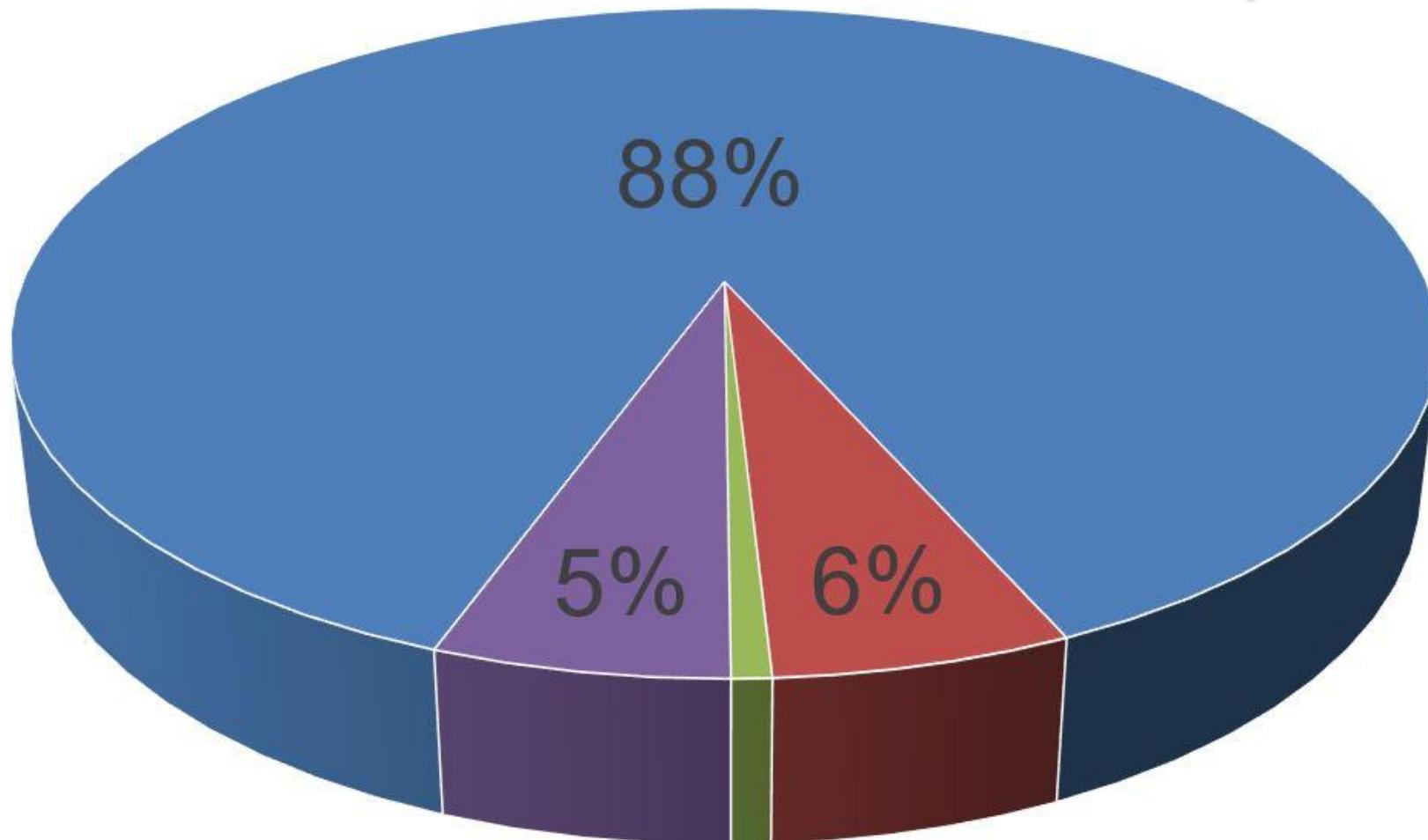
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,062,878	62,094	2,610	1,127,582
February	1,158,978	63,536	2,475	1,224,989
March	1,124,896	64,580	2,652	1,192,128
April	1,135,825	61,897	2,557	1,200,279
May	1,134,999	60,760	2,560	1,198,319
June	1,166,604	58,889	2,274	1,227,768
July	1,180,692			
August	1,219,345			
September				
October				
November				
December				



# North Dakota Monthly Production Change



# Estimated Williston Basin Oil Transportation



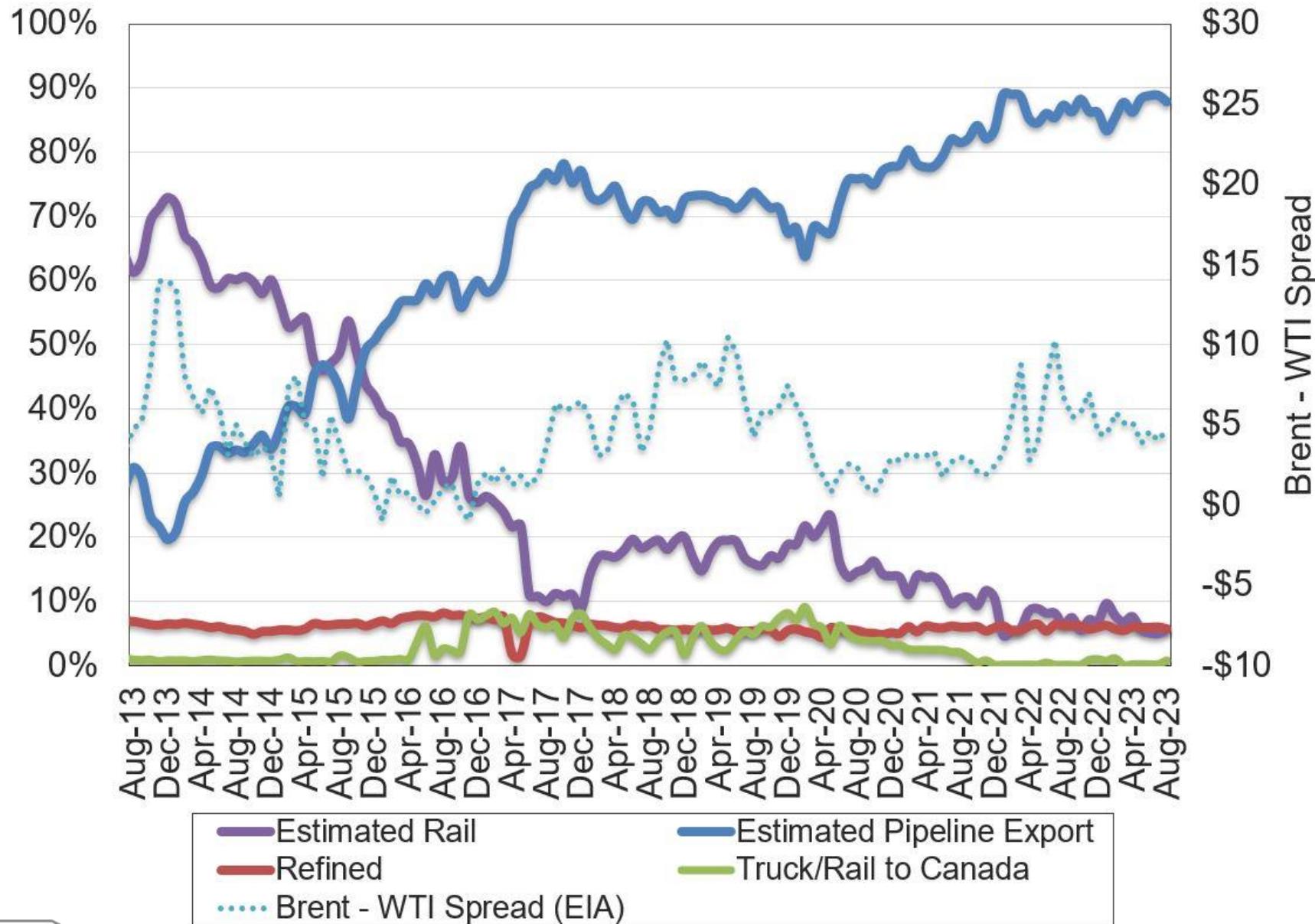
- Pipeline Export 1%
- Truck/Rail to Canada

- Refined
- Estimated Rail

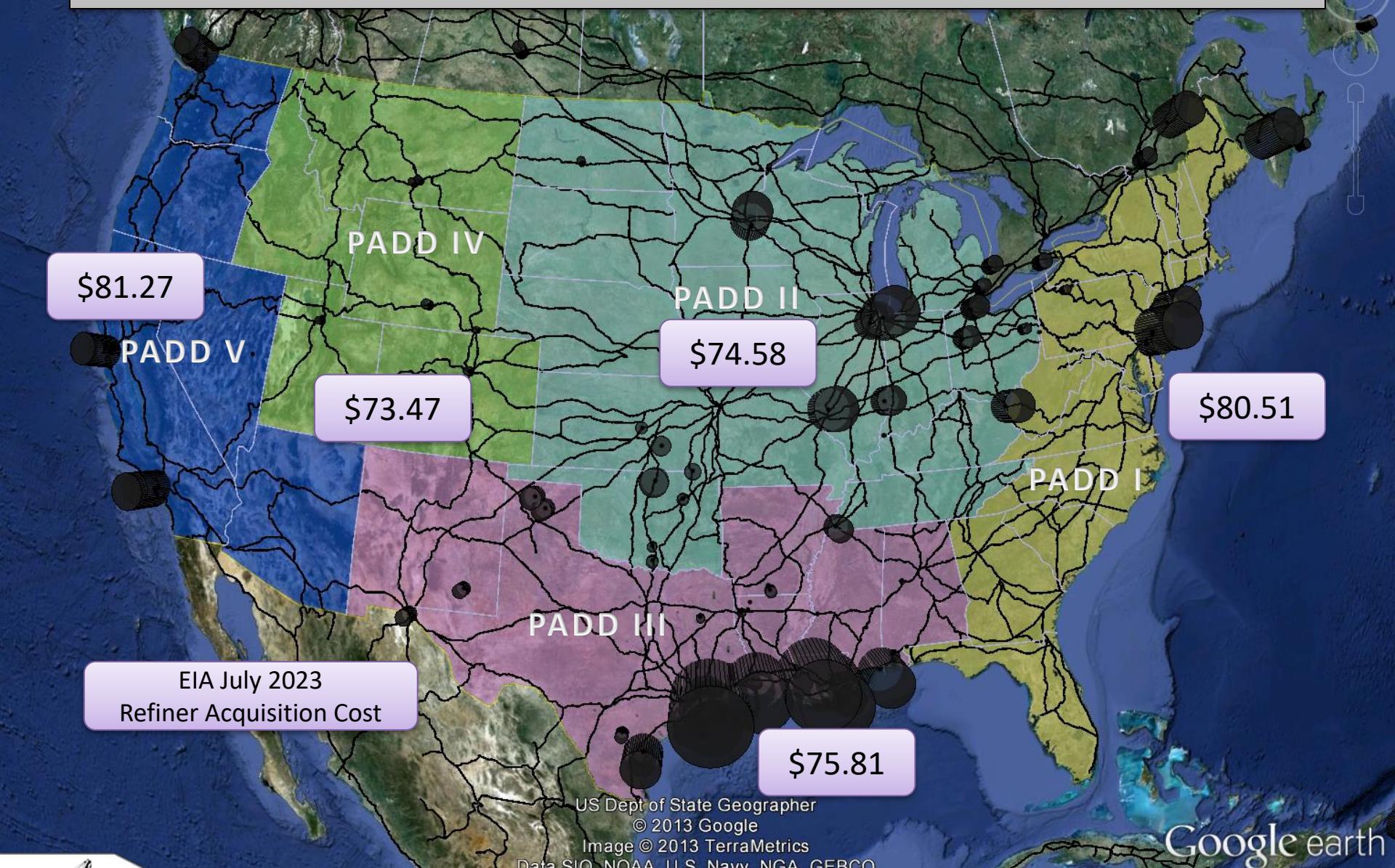
Aug 2023



# Estimated Williston Basin Oil Transportation



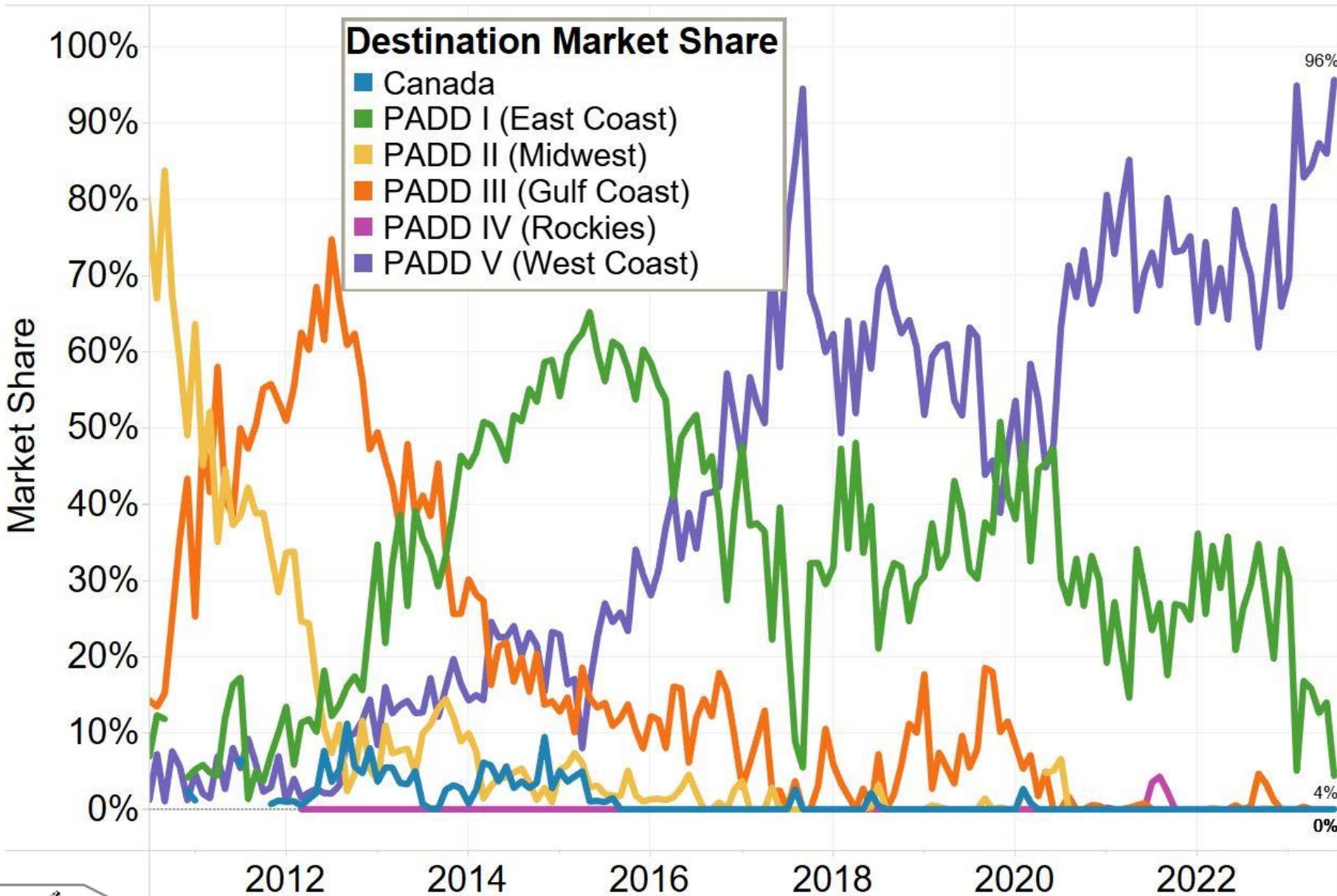
# Major Rail Lines and Refineries



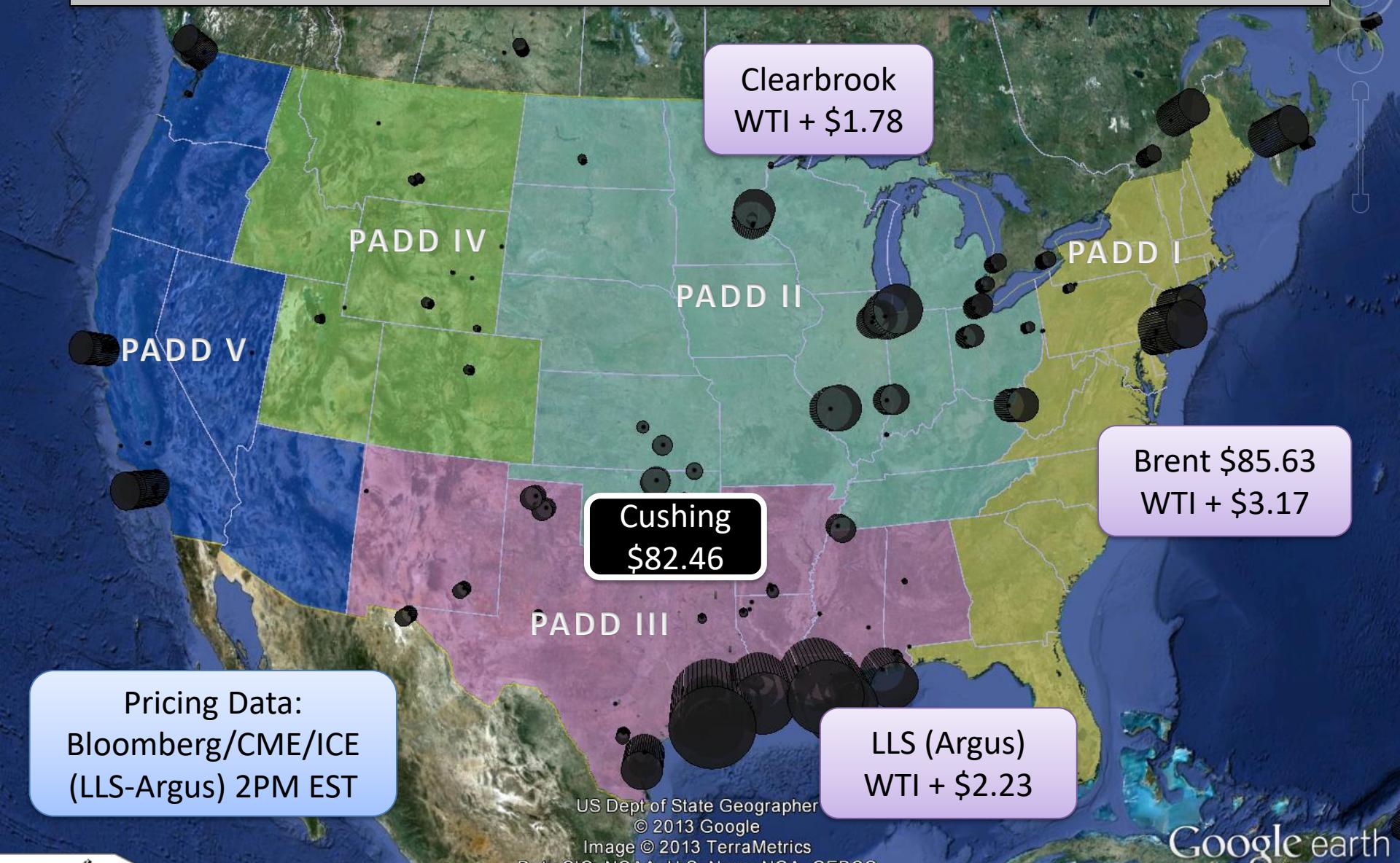
# Estimated ND Rail Export Volumes



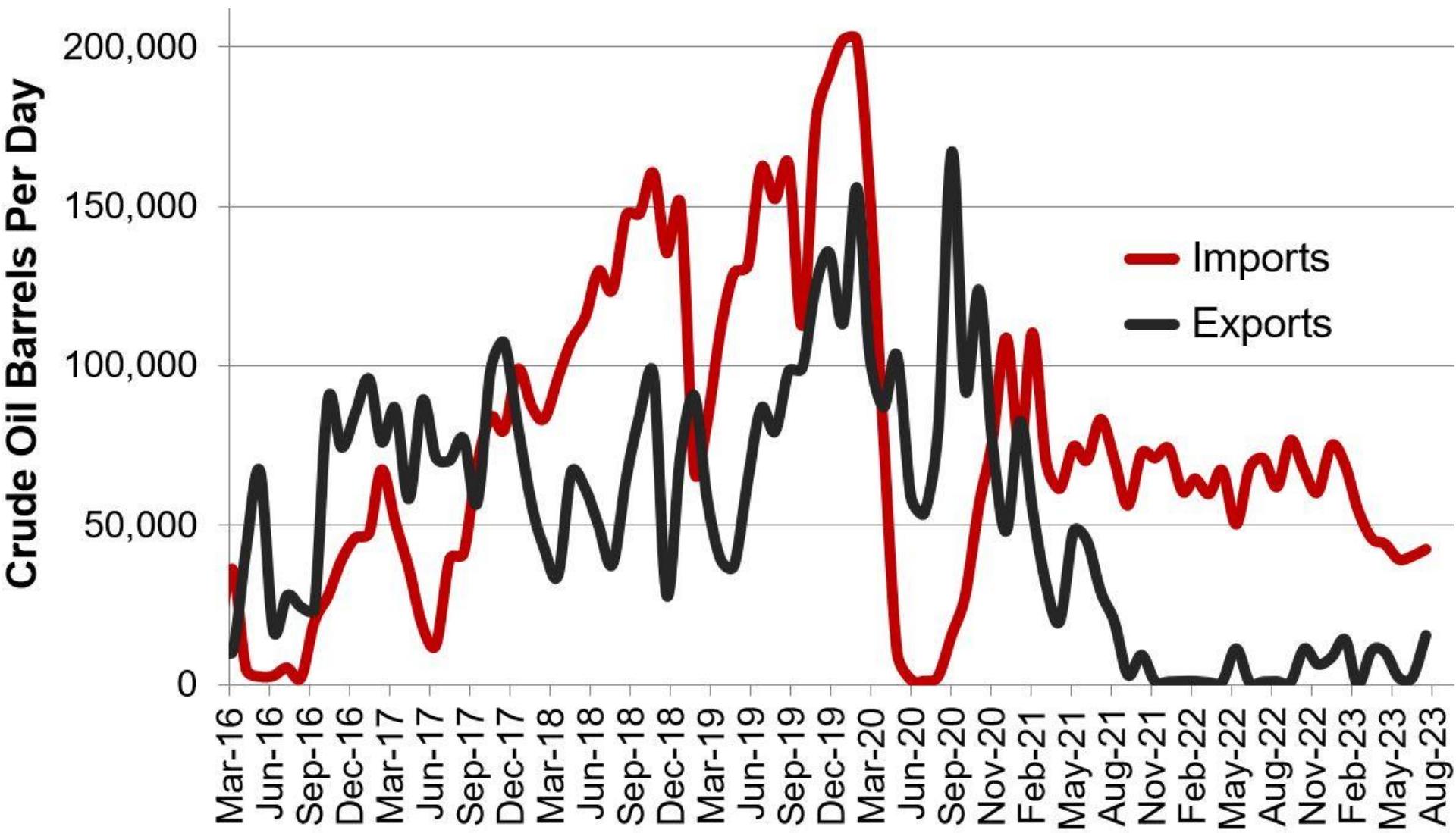
# Rail Destinations Market Share (July 2023)



# Crude Oil Prices – Oct. 12, 2023



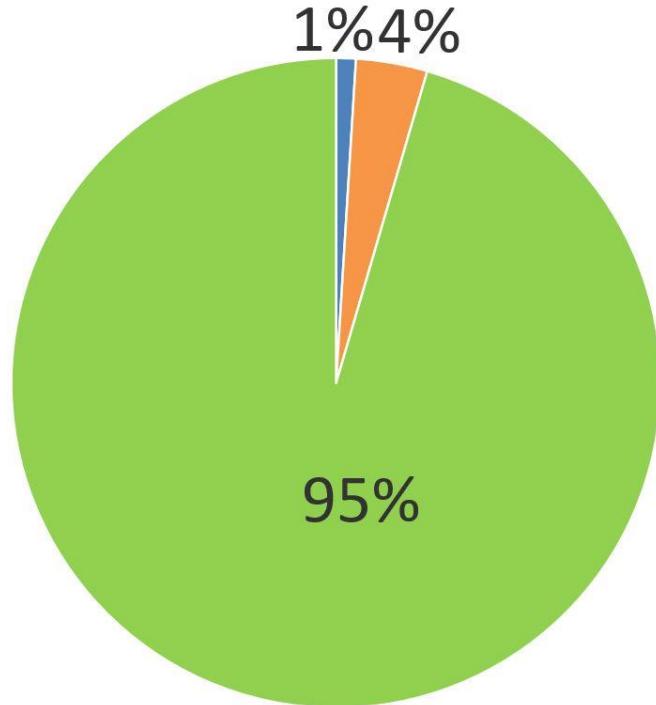
# Williston Basin Truck/Rail Imports and Exports with Canada



*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



**GREEN** – % of gas captured and sold  
**Blue** – % flared from zero sales wells  
**Orange** – % flared from wells with at least one mcf sold.

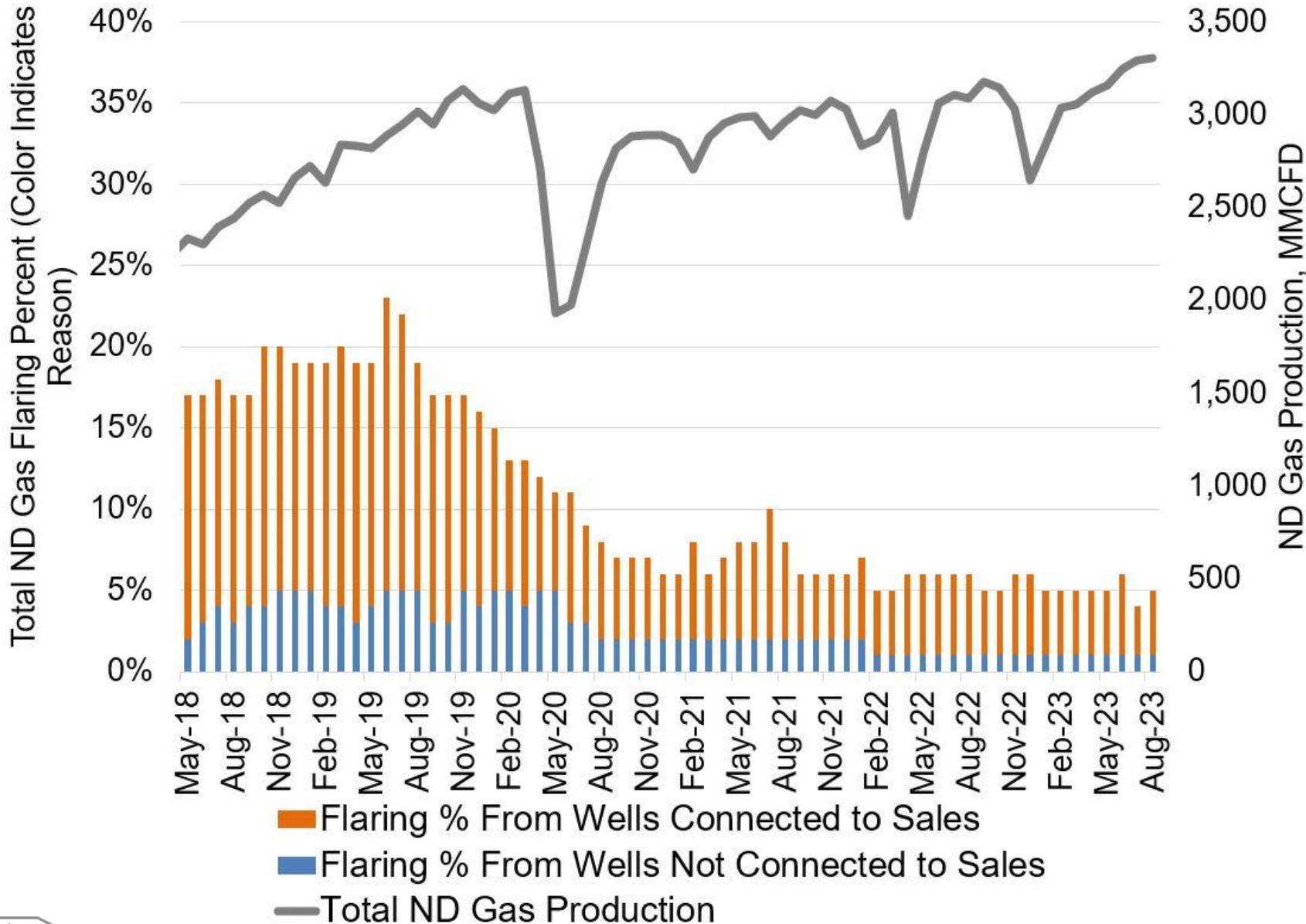
## Simple Terms

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

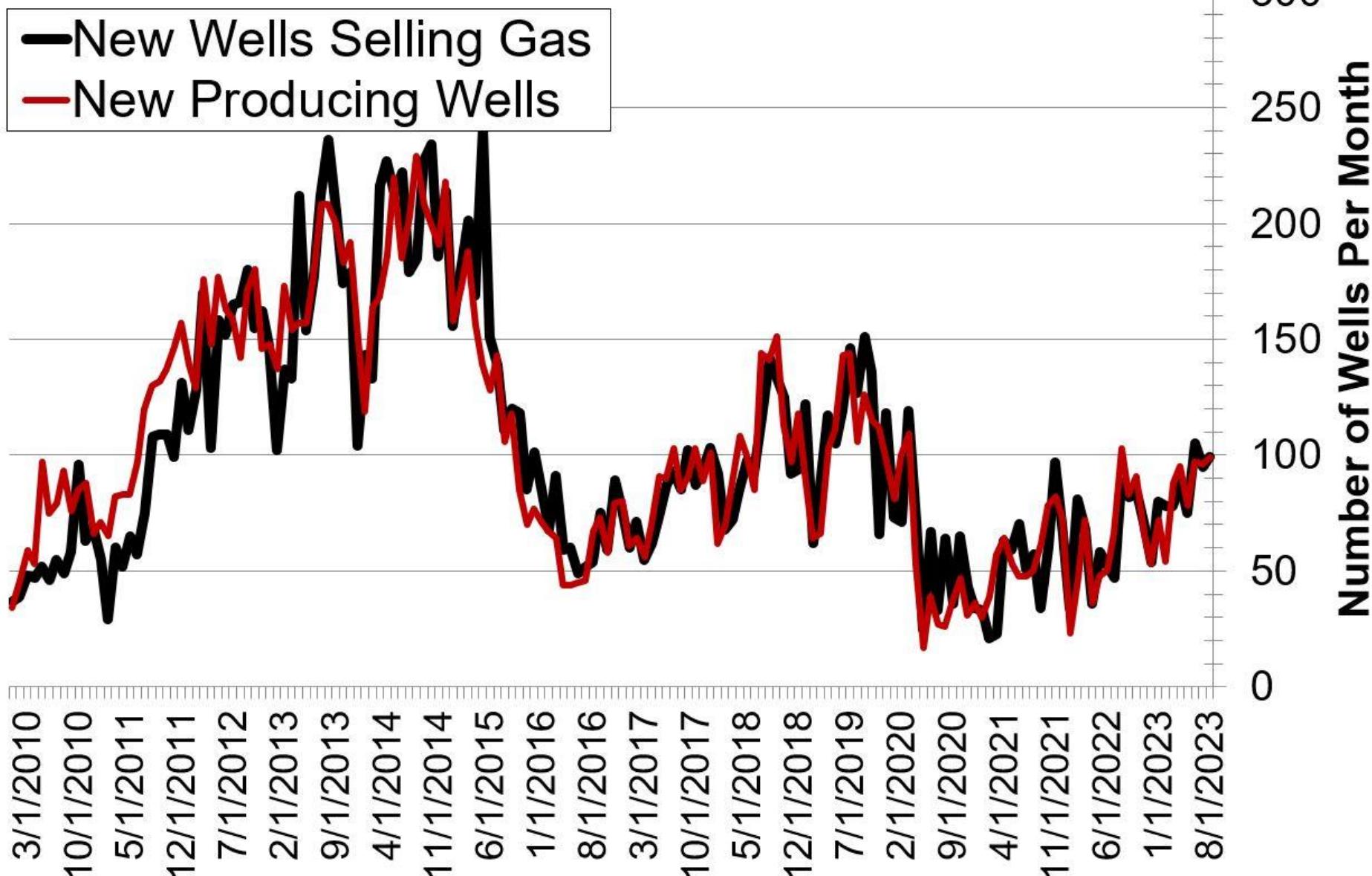
August 2023 Data – Non-Confidential Wells



# Solving the Flaring Challenge

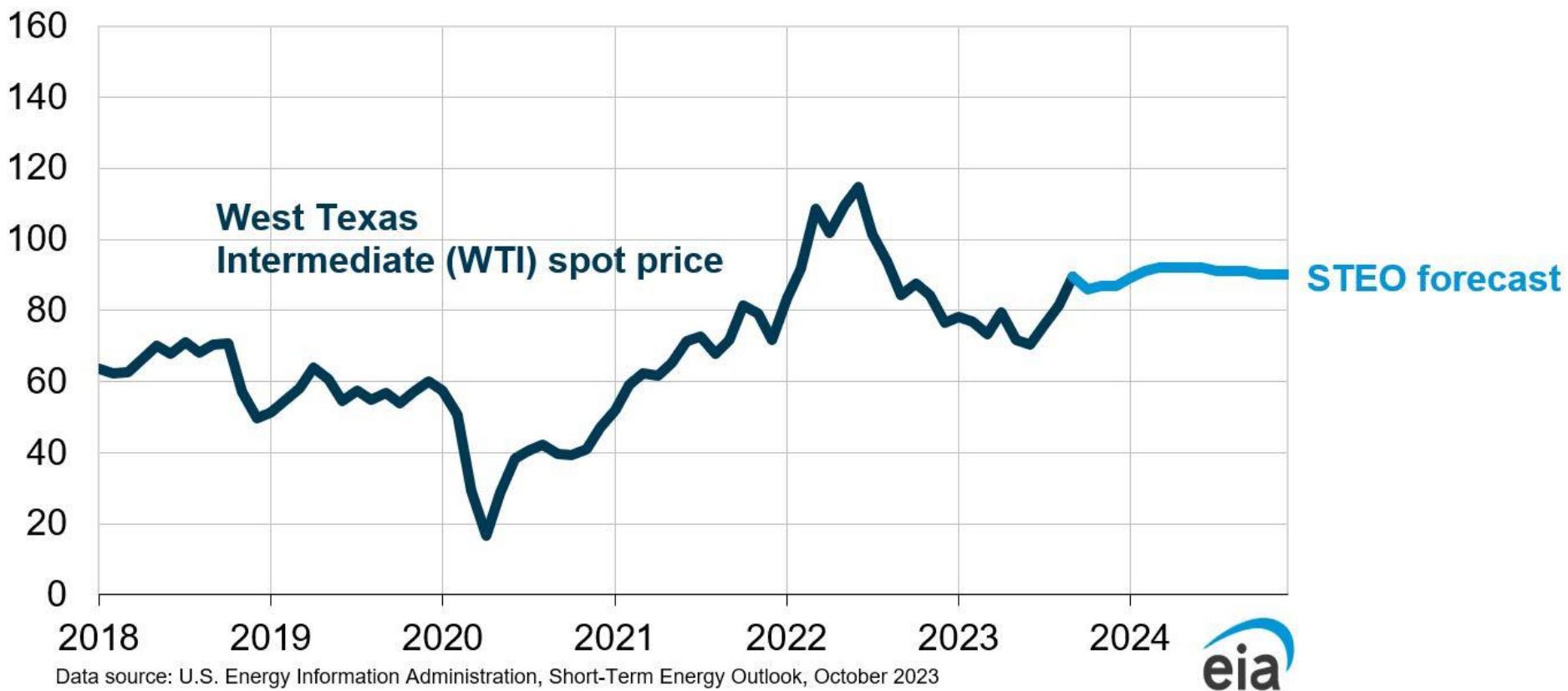


# Solving the Flaring Challenge

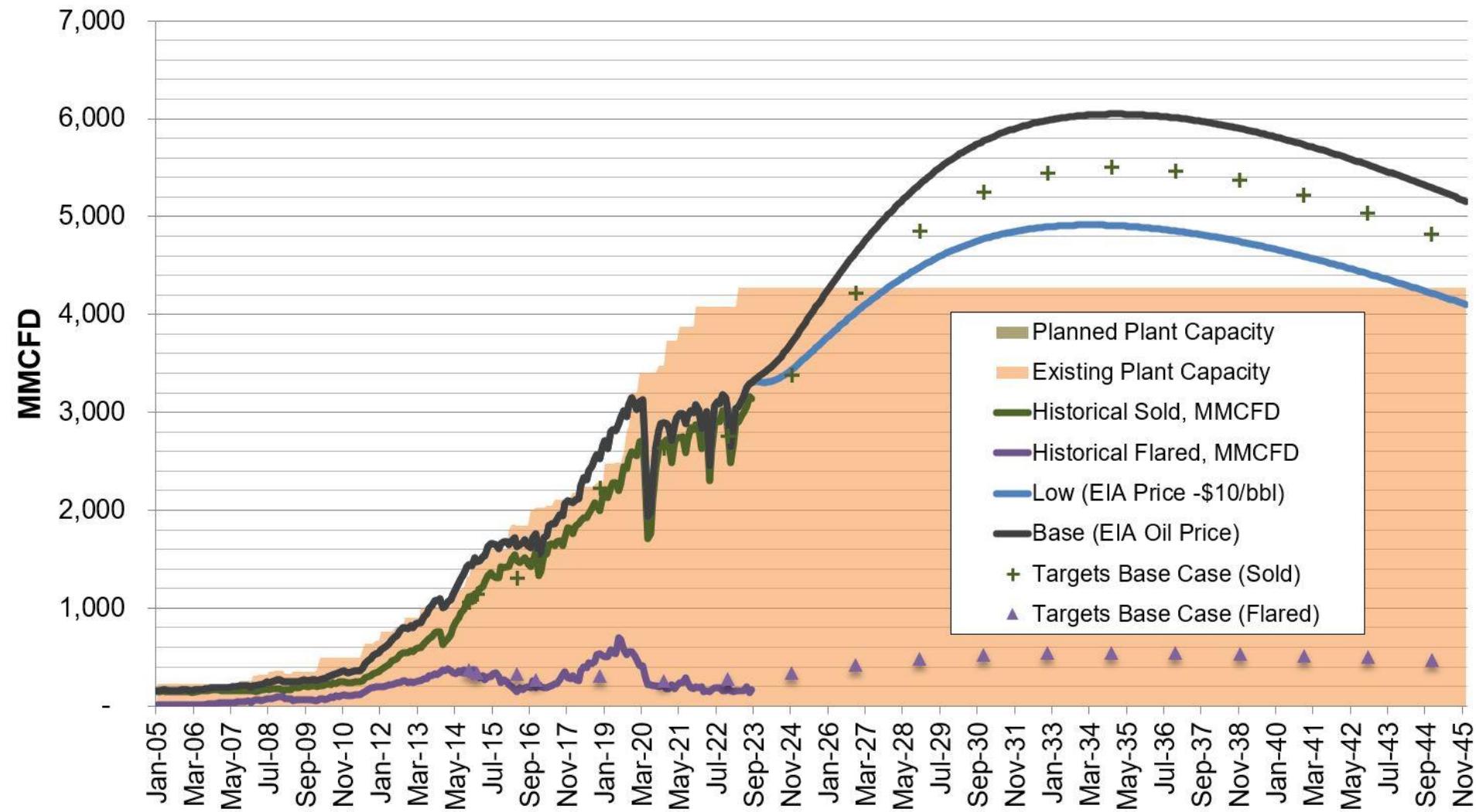


# EIA Oil Price Forecast: Oct. 2023

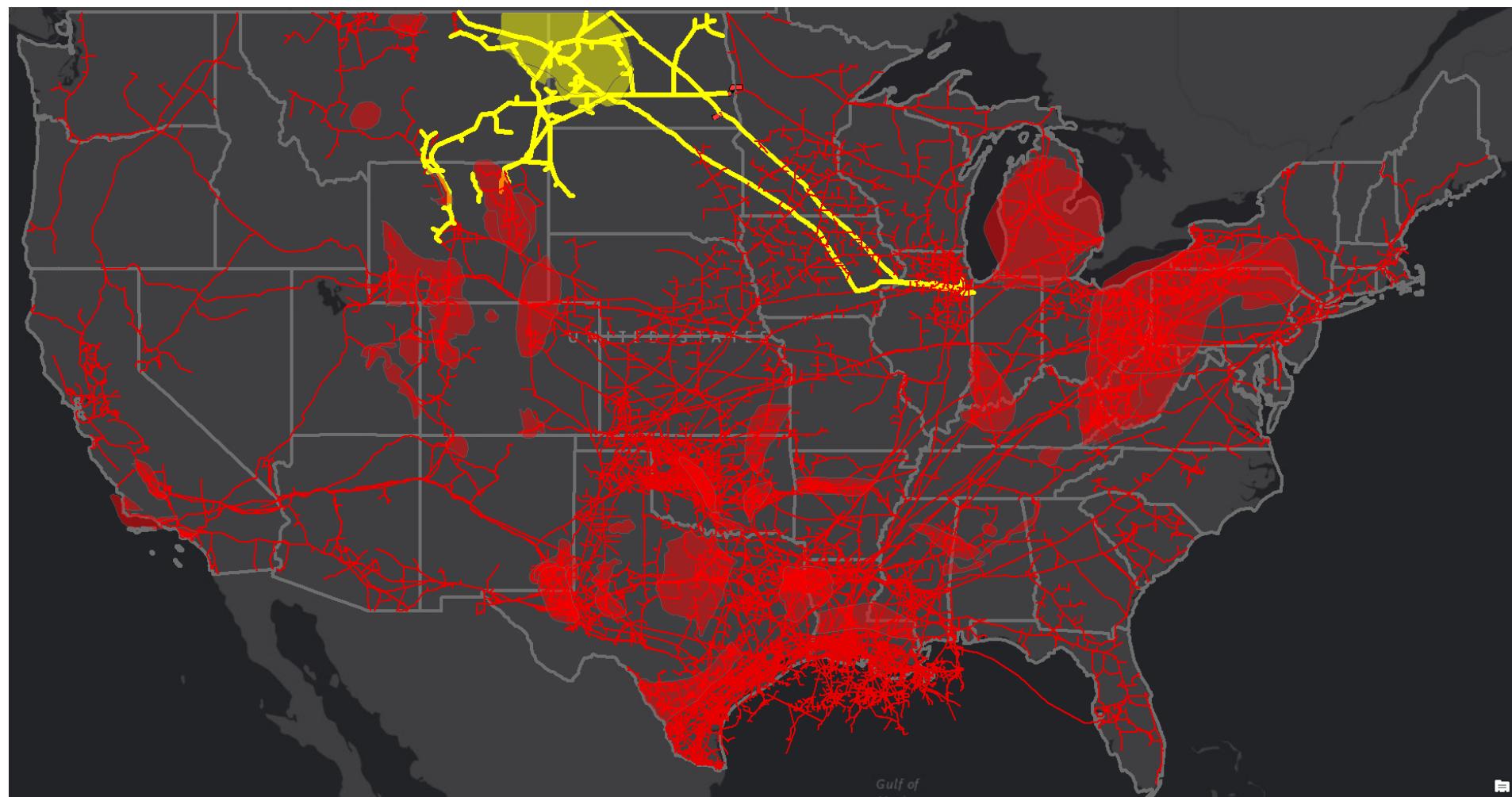
**West Texas Intermediate (WTI) crude oil price**  
dollars per barrel



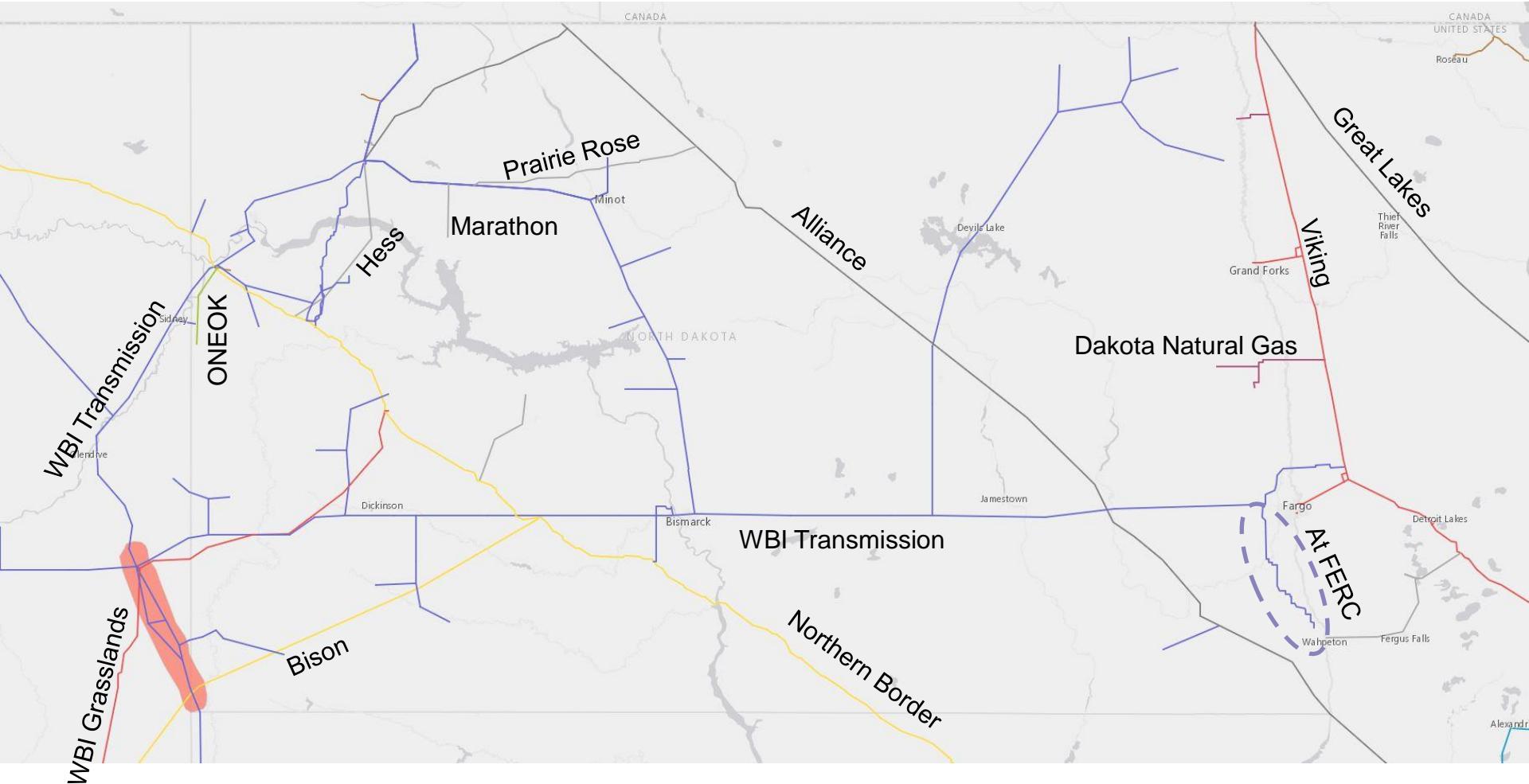
# Solving the Flaring Challenge



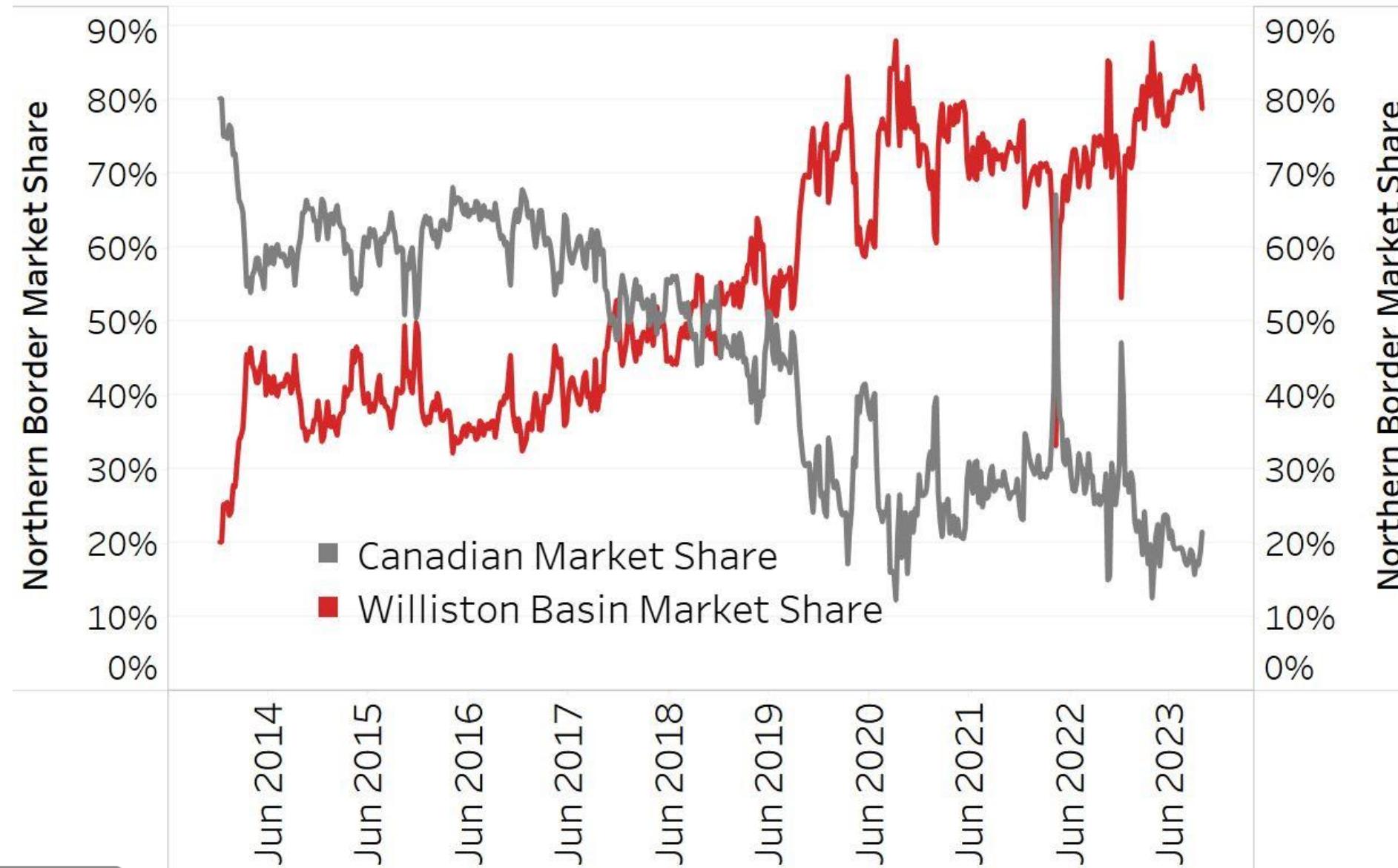
# Bakken Natural Gas Infrastructure



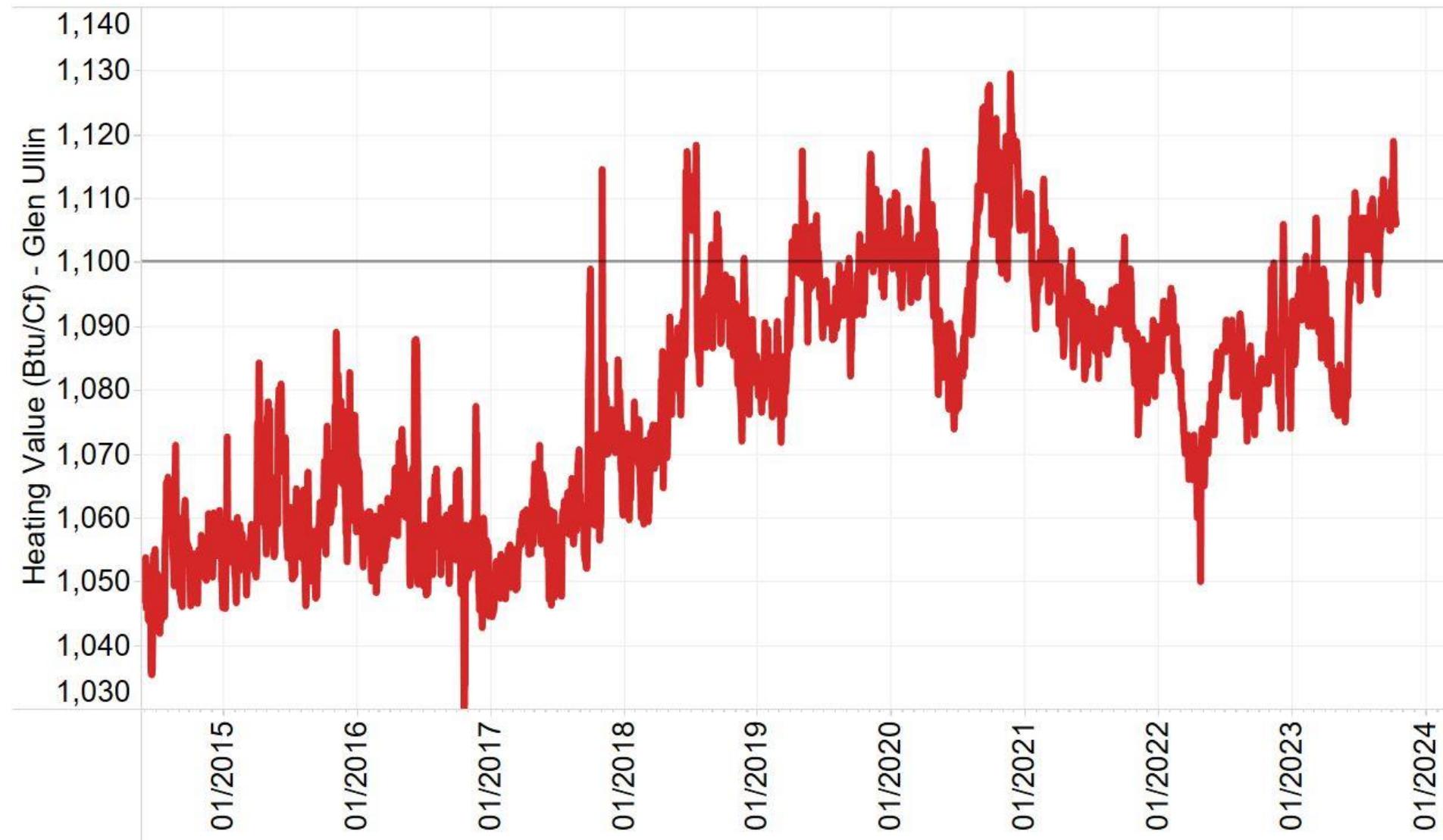
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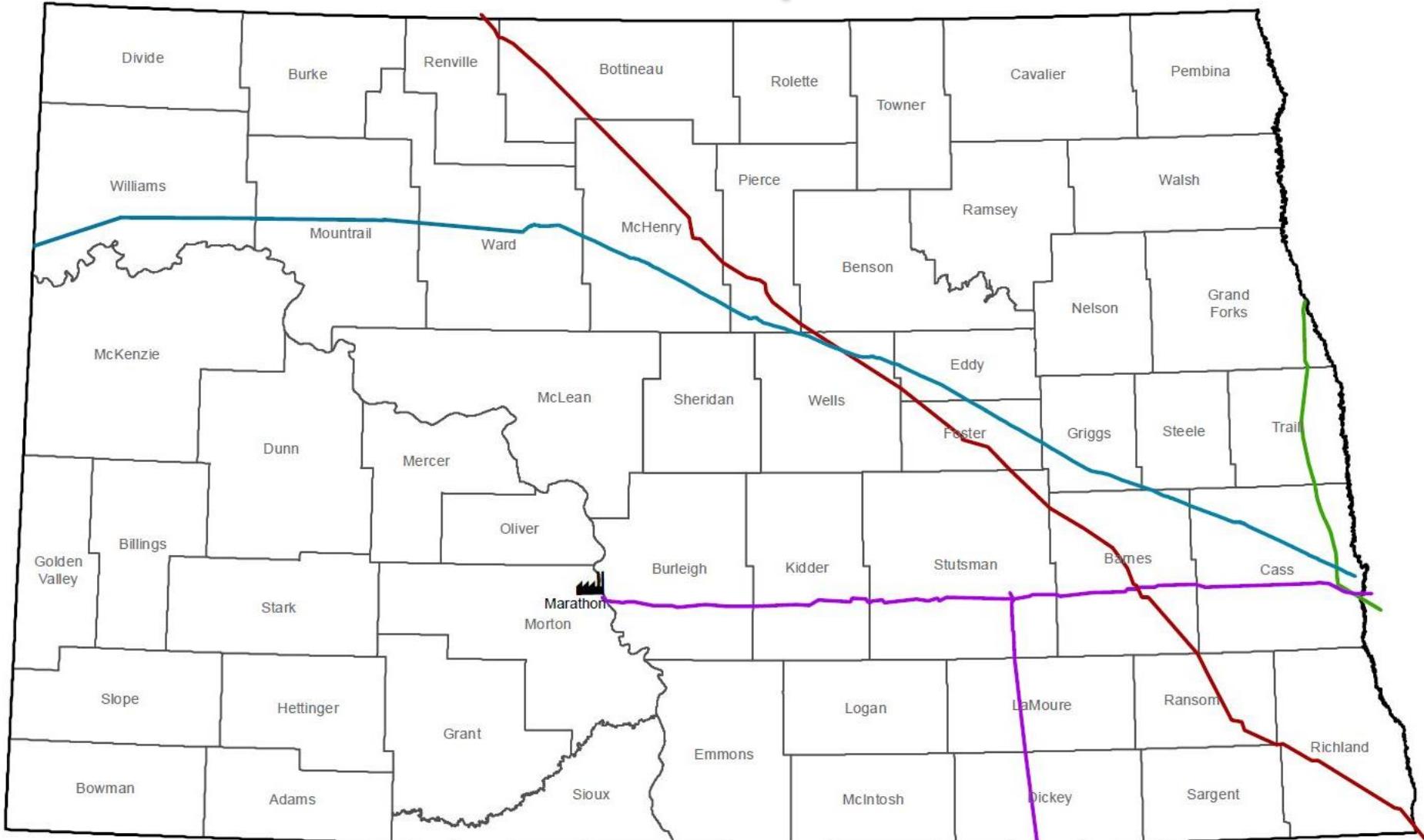
# Northern Border Pipeline Market Share



# Northern Border BTU at Glen Ullin, ND



# Product Pipelines

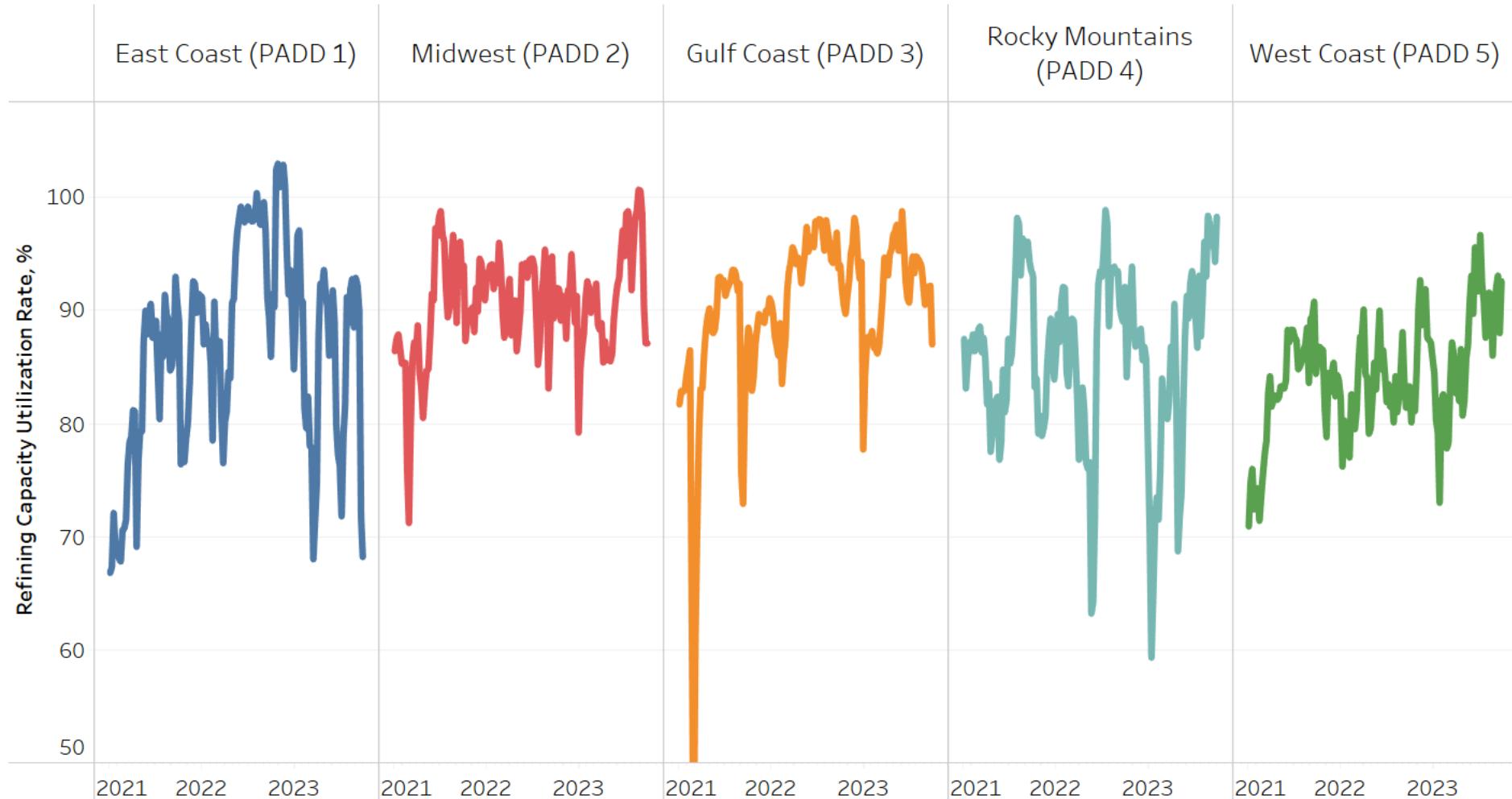


— Cenex Pipeline LLC - Refined Products — Magellan Midstream Partners LP - Refined Products ■ Refinery  
— Kinder Morgan Cochin - Condensate — NuStar Energy - Refined Products



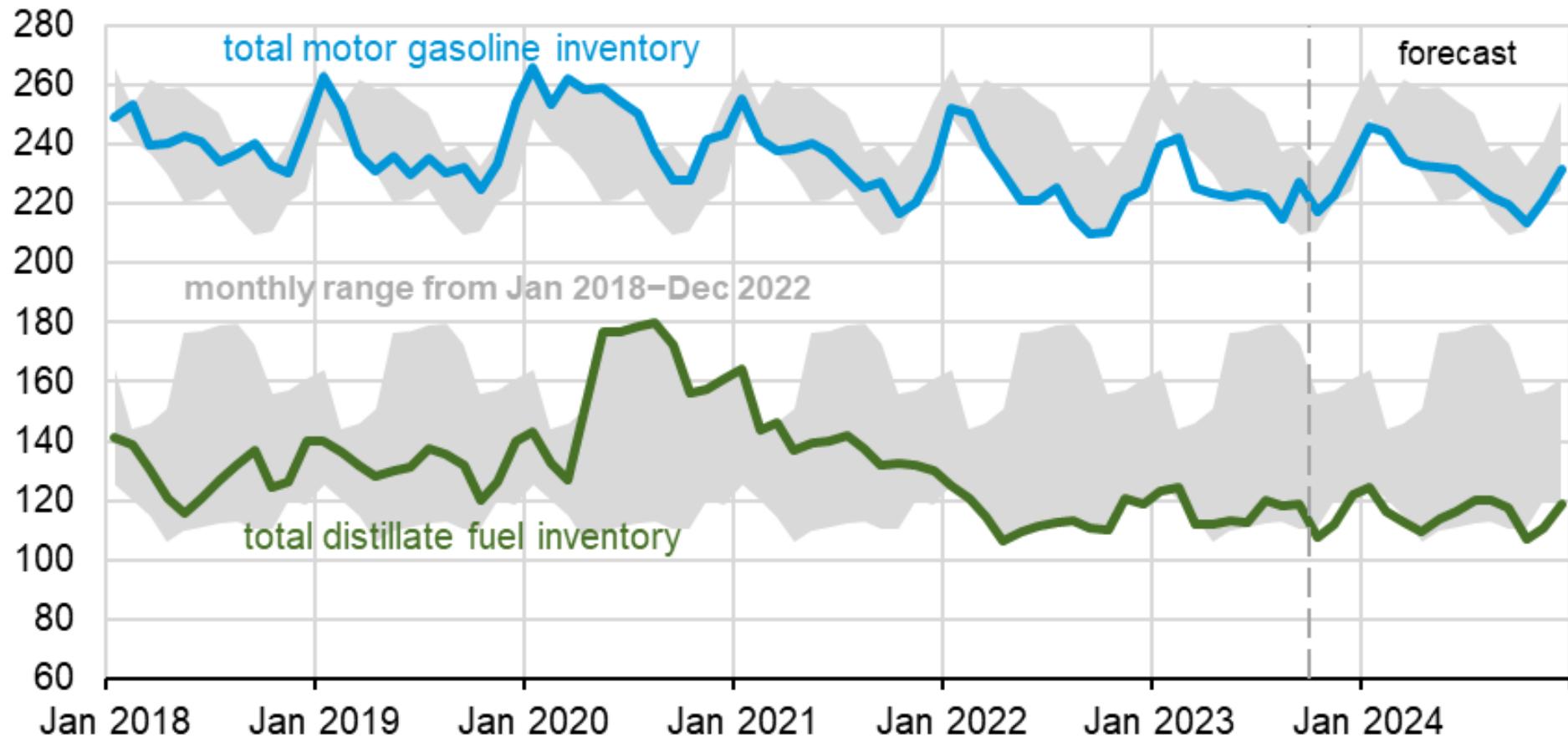
# Refinery Utilization Rates

## Through Week of 9-29-23



# U.S. Product Inventories

## U.S. gasoline and distillate inventories million barrels



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



# Contact Information

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**Know what's below.  
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JJ Kringstad - North Dakota Pipeline Authority

Websites:

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

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

