



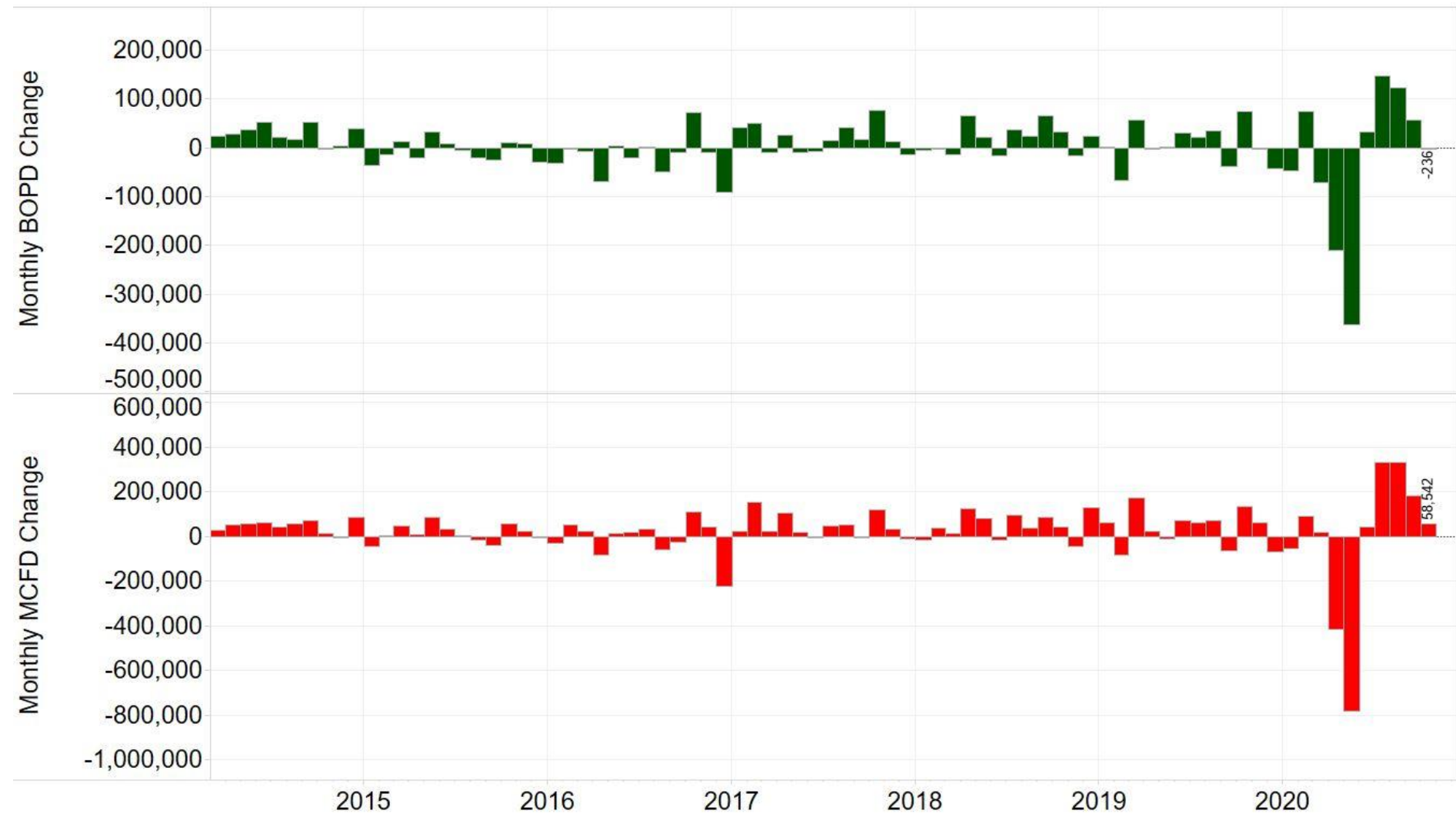
December 2020 Monthly Update  
North Dakota Pipeline Authority  
Justin J. Kringstad  
December 14, 2020

# US Williston Basin Oil Production - 2020

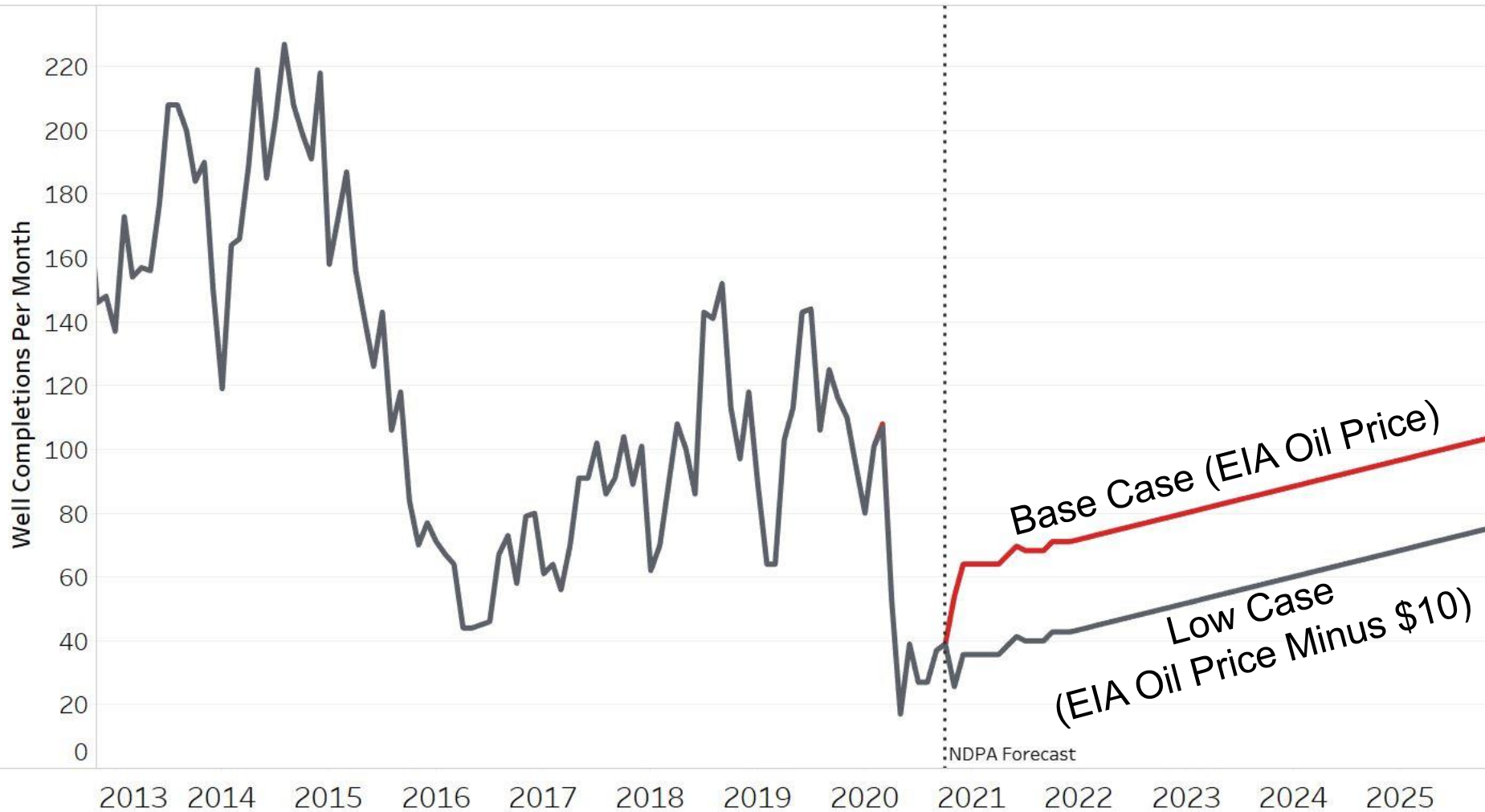
| <b>MONTH</b> | <b>ND</b> | <b>Eastern MT*</b> | <b>SD</b> | <b>TOTAL</b> |
|--------------|-----------|--------------------|-----------|--------------|
| January      | 1,430,646 | 57,435             | 3,091     | 1,491,172    |
| February     | 1,505,045 | 55,409             | 3,070     | 1,563,524    |
| March        | 1,433,732 | 57,699             | 2,946     | 1,494,377    |
| April        | 1,223,974 | 49,025             | 2,610     | 1,275,609    |
| May          | 860,586   | 37,014             | 2,466     | 900,066      |
| June         | 893,756   | 42,769             | 2,680     | 939,205      |
| July         | 1,042,086 | 48,344             | 3,435     | 1,093,865    |
| August       | 1,165,371 | 46,800             | 2,807     | 1,214,977    |
| September    | 1,223,107 | 42,805             | 2,837     | 1,268,749    |
| October      | 1,222,871 |                    |           |              |
| November     |           |                    |           |              |
| December     |           |                    |           |              |



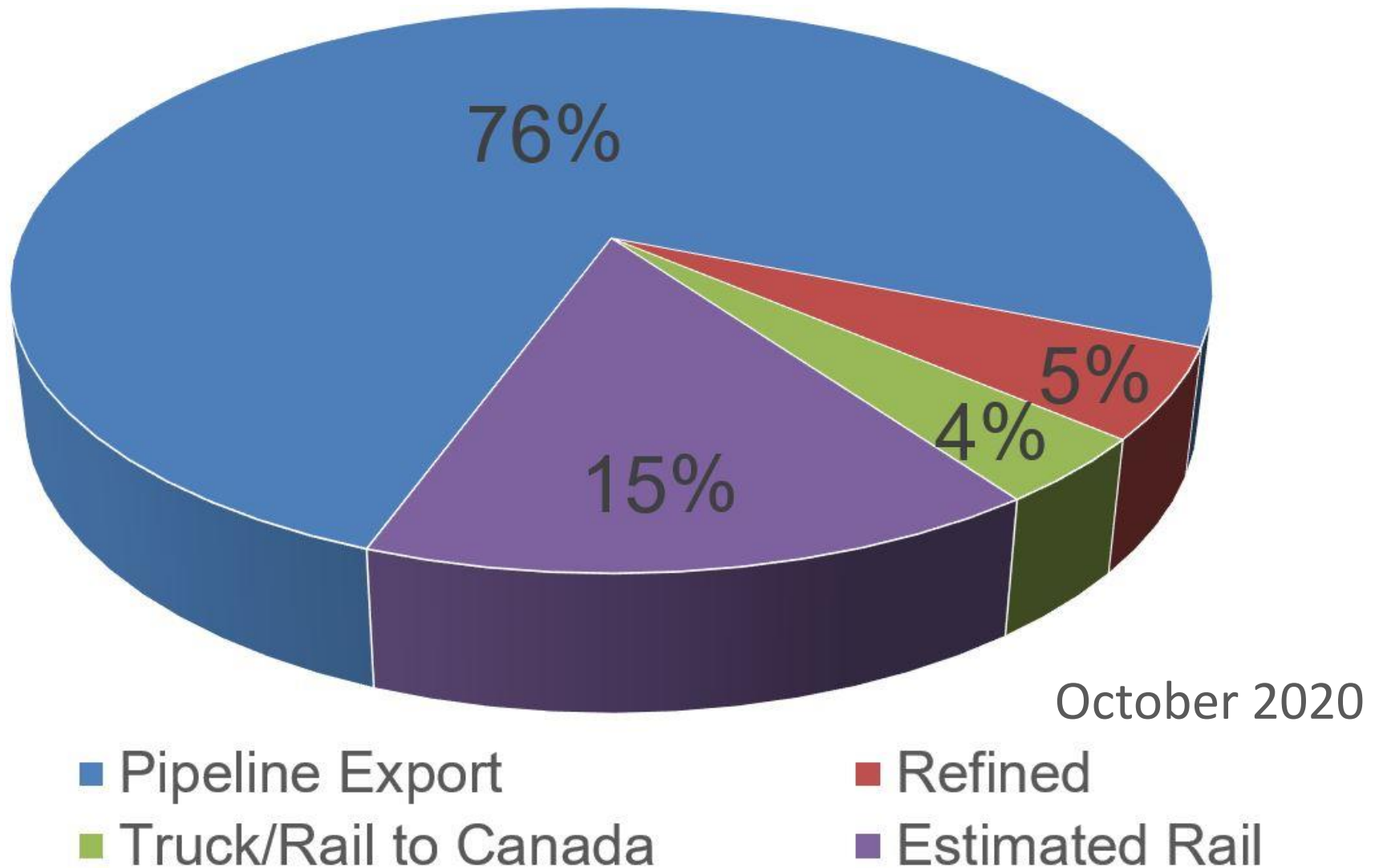
# North Dakota Monthly Production Change



# North Dakota Completions

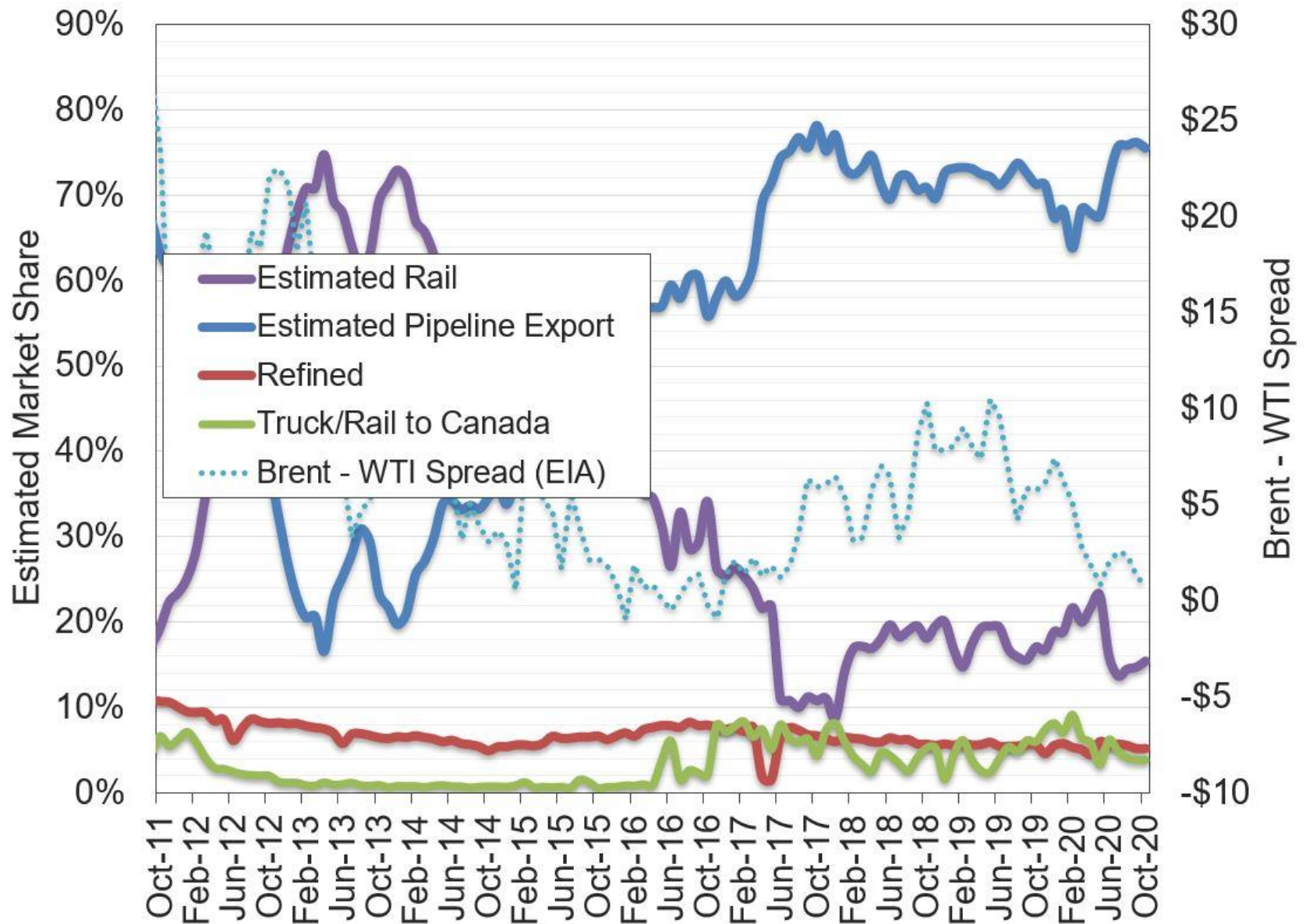


# Estimated Williston Basin Oil Transportation





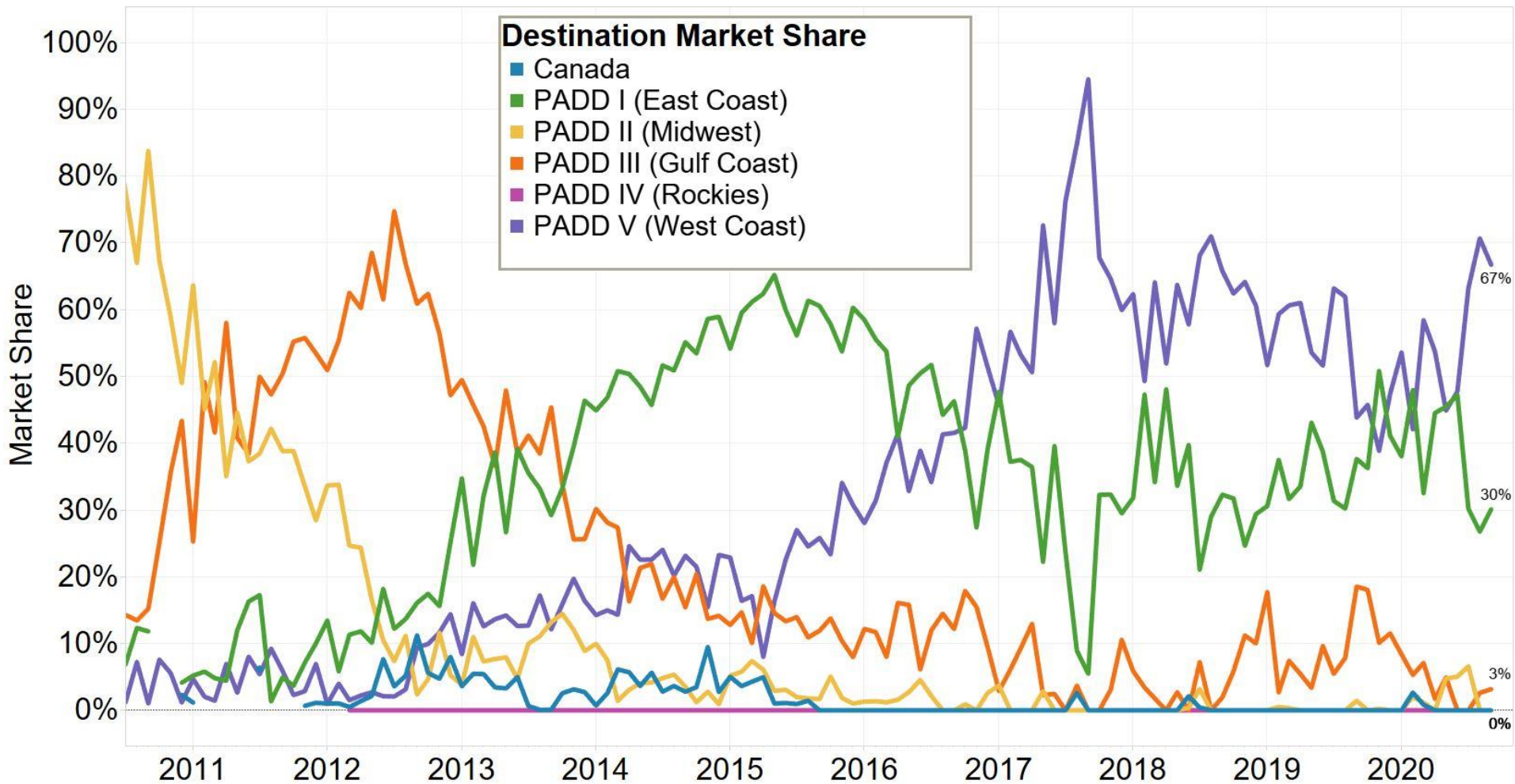
# Estimated Williston Basin Oil Transportation



# Estimated ND Rail Export Volumes



# Rail Destinations Market Share (Sep. 2020)

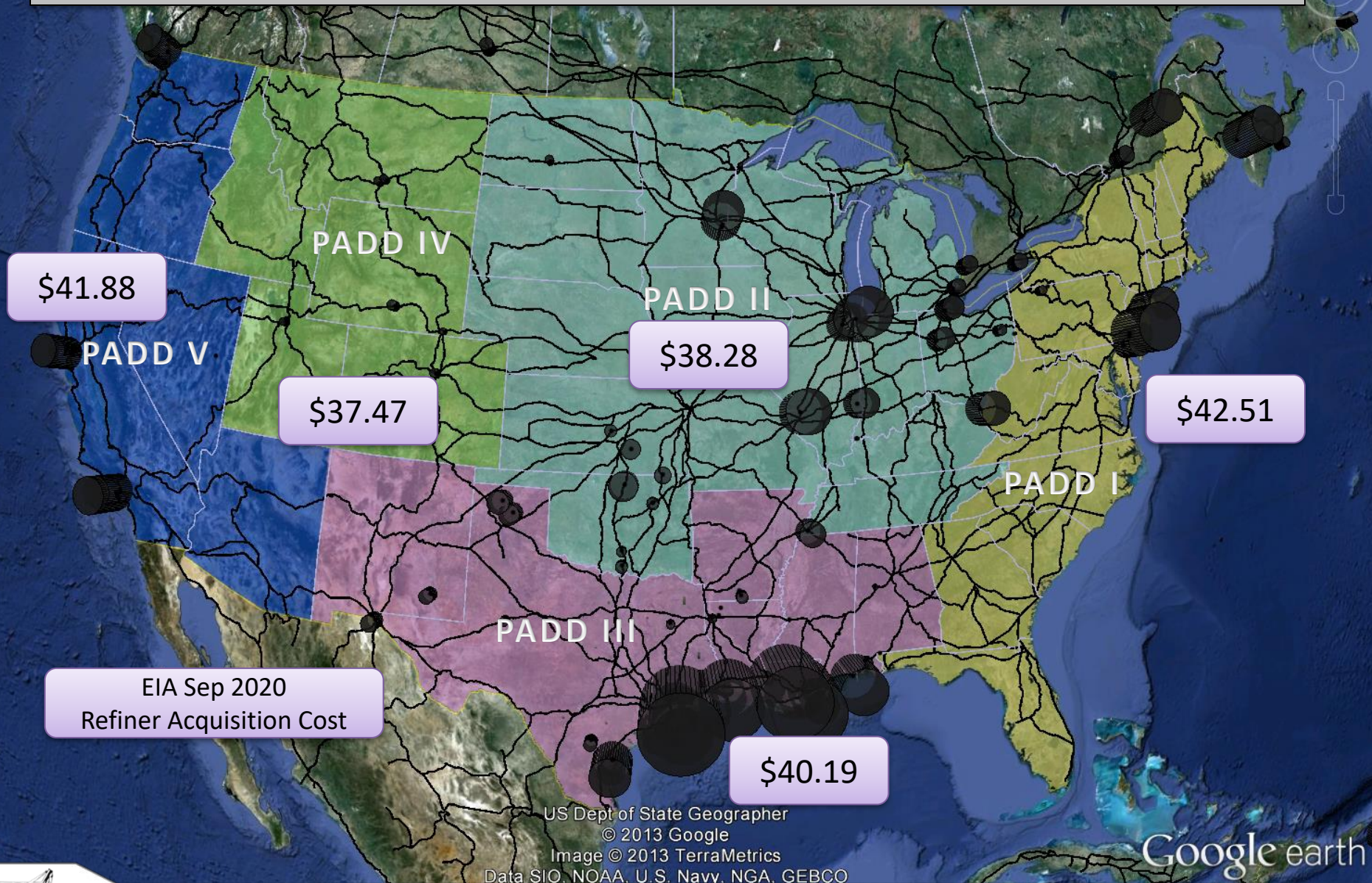


*Data for Rail Destination Market Share Provided by the US Energy Information Administration*



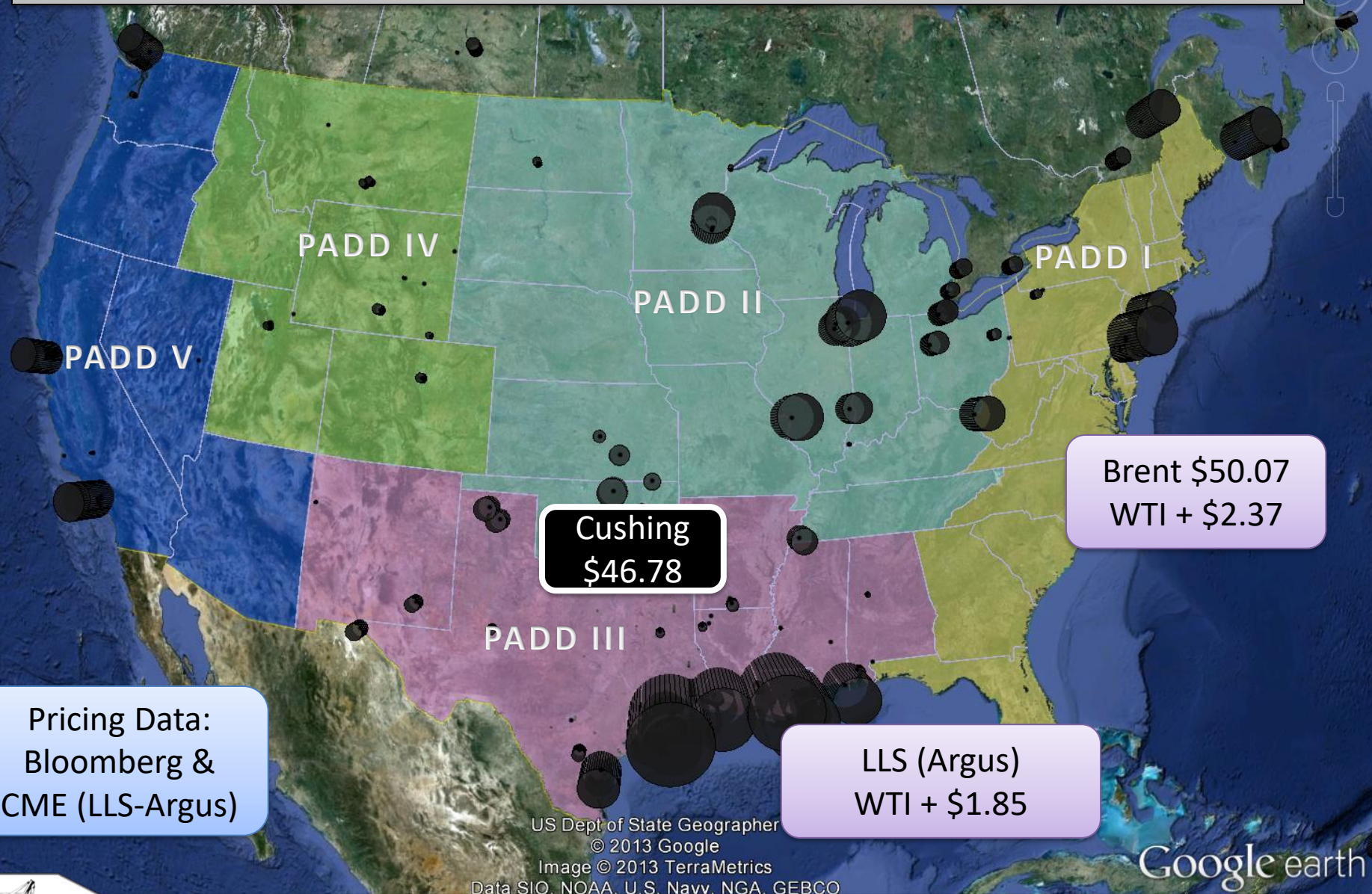


# Major Rail Lines and Refineries

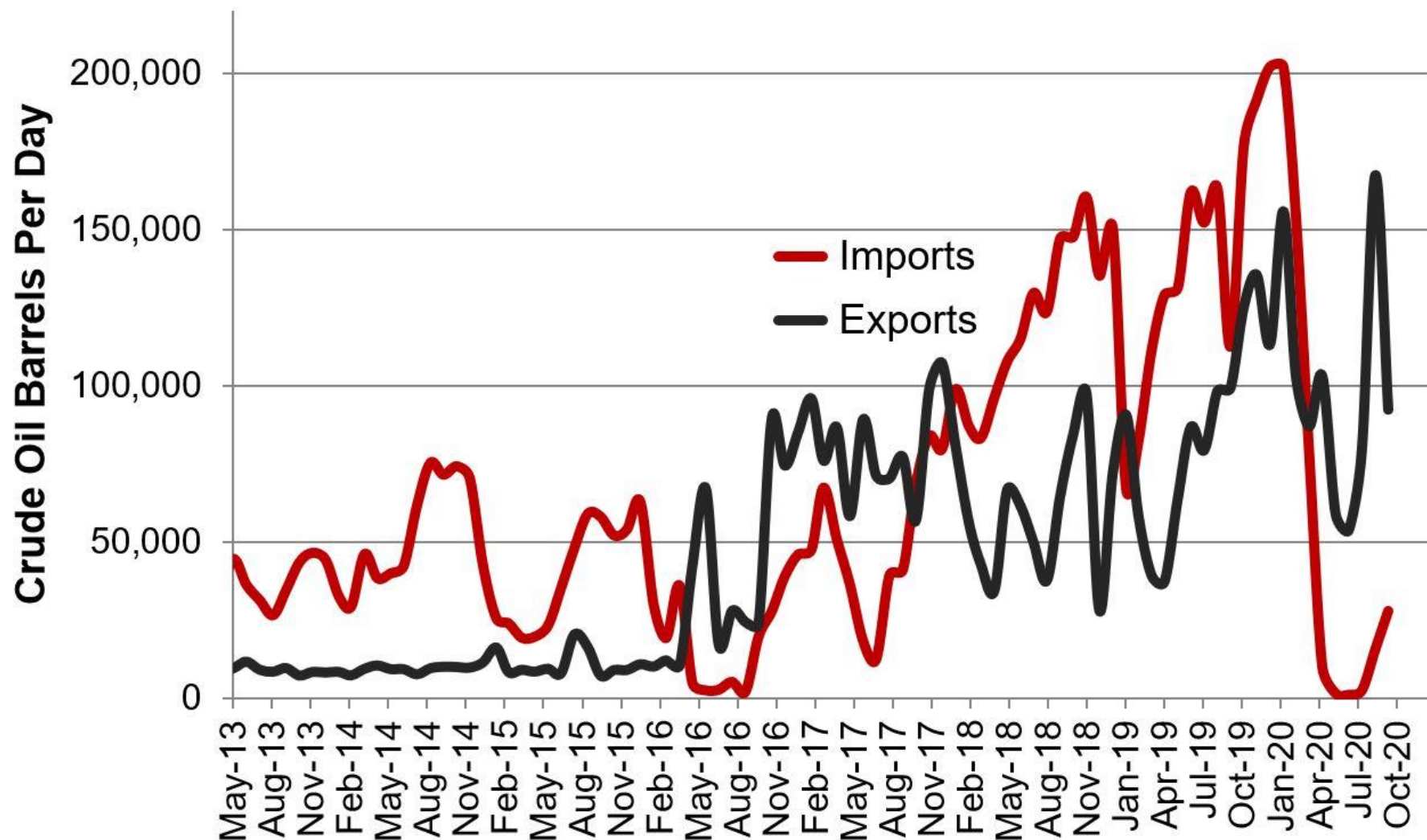




# Crude Oil Prices – Dec. 14, 2020



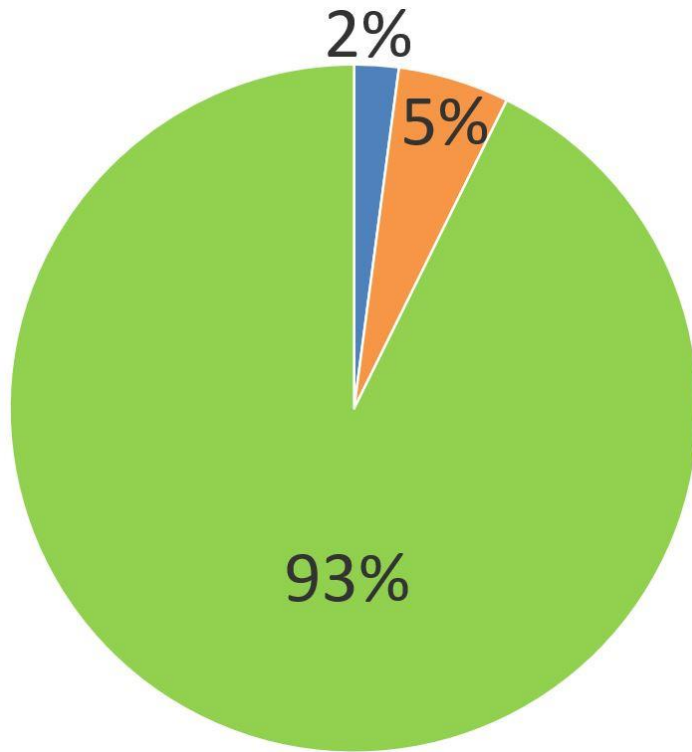
# Williston Basin Truck/Rail Imports and Exports with Canada



***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

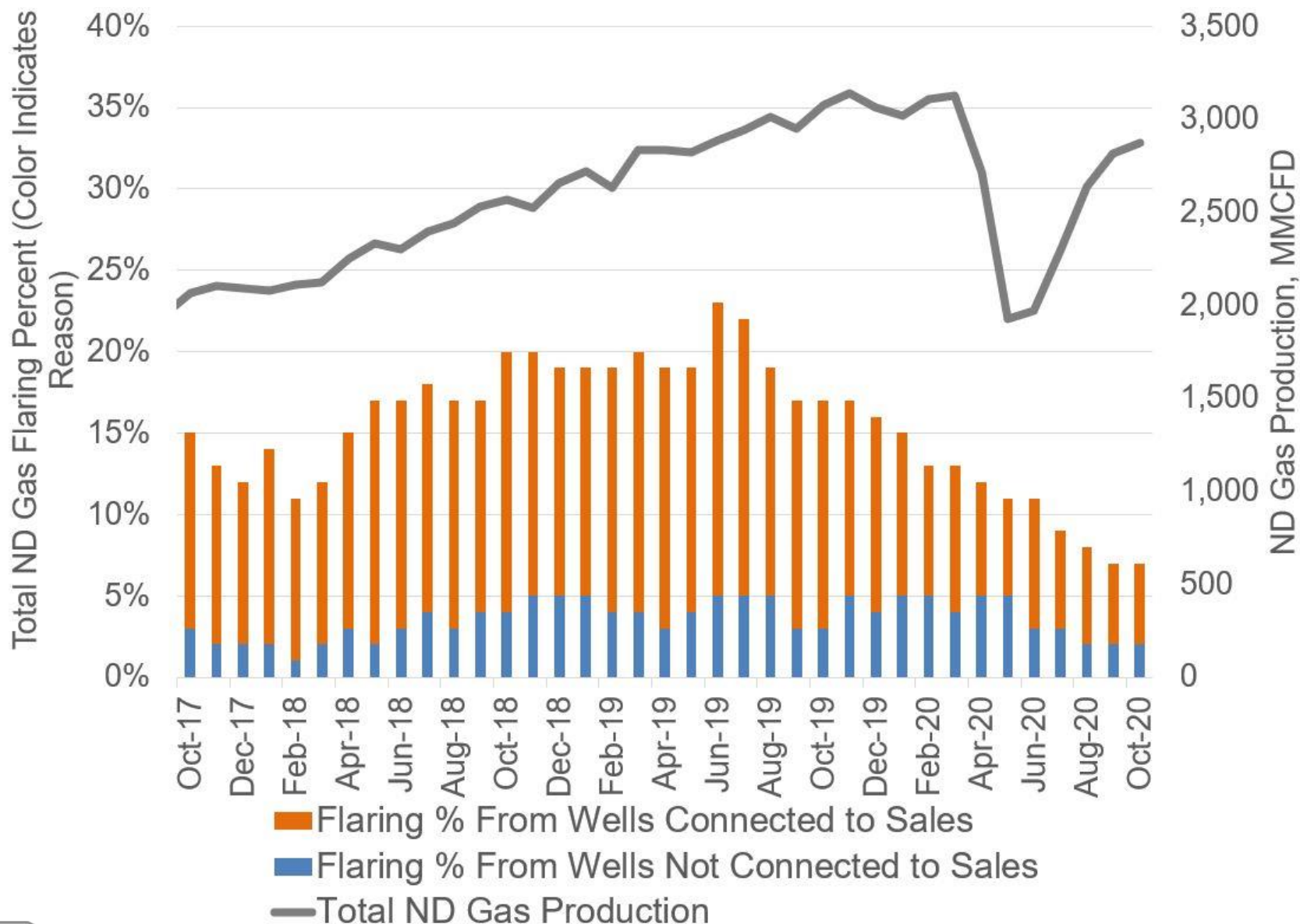
**Blue** – Lack of pipelines  
**Orange** – Challenges on existing infrastructure

October 2020 Data – Non-Confidential Wells

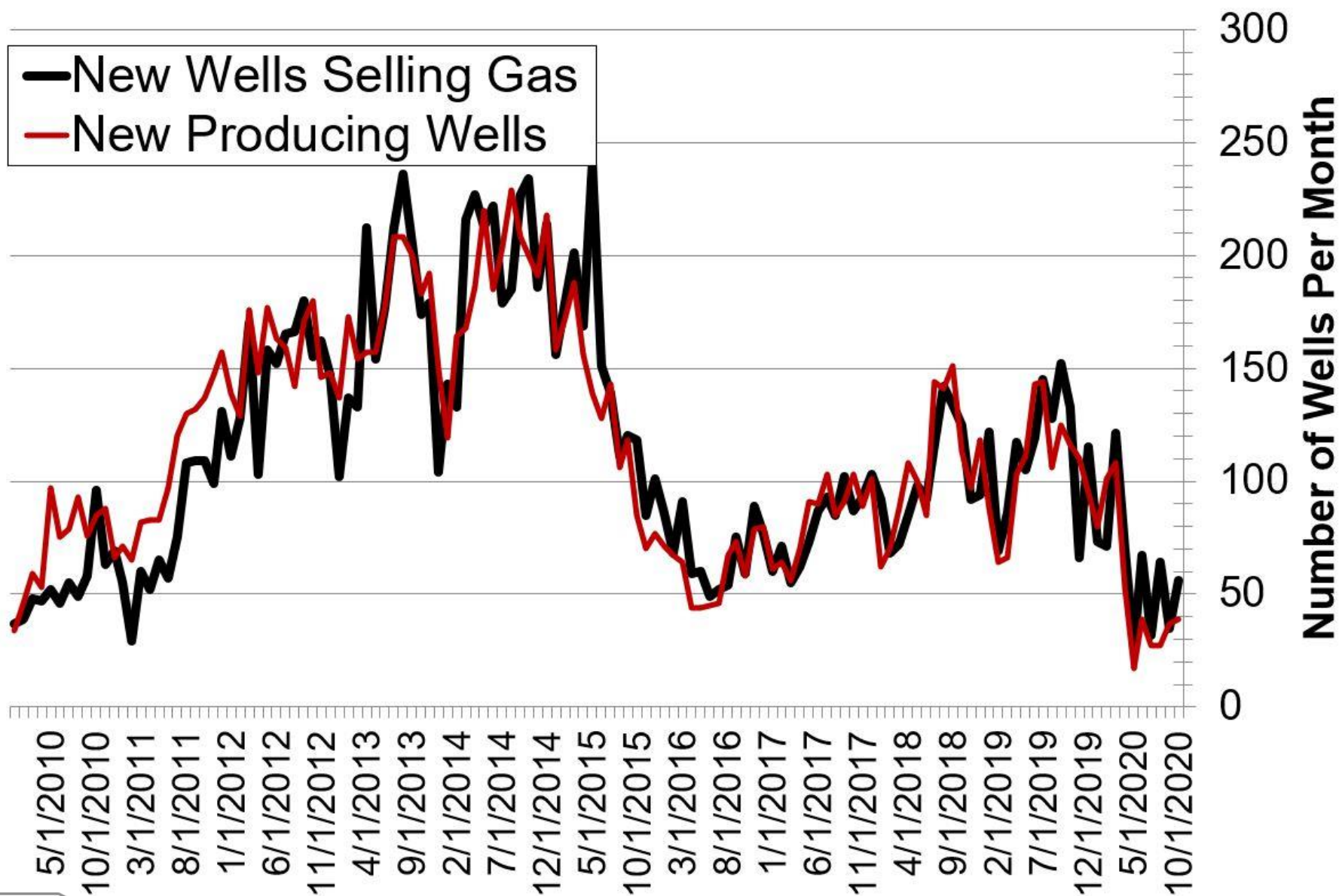




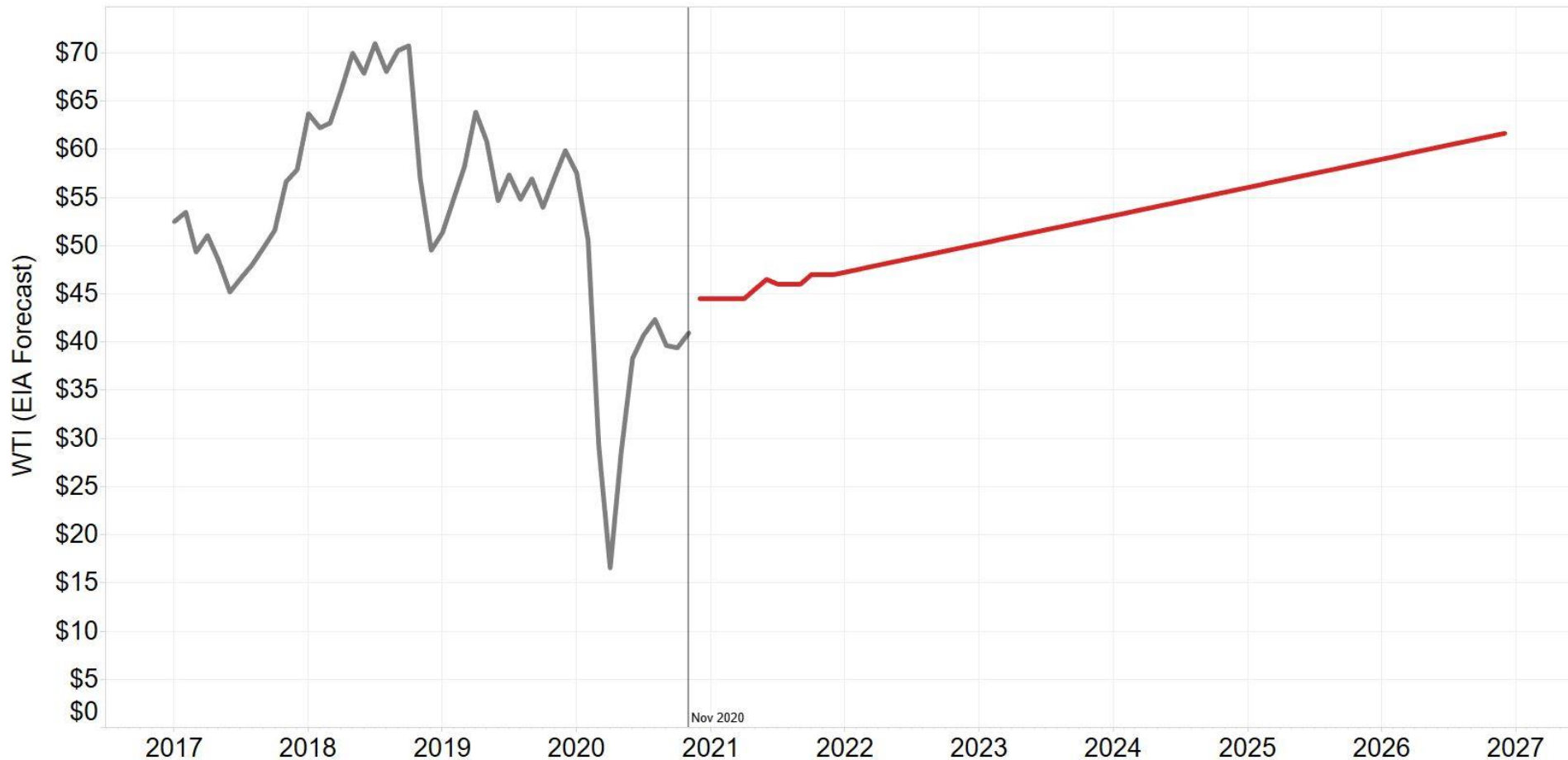
# Solving the Flaring Challenge



# Solving the Flaring Challenge



# EIA Oil Price Forecast\*

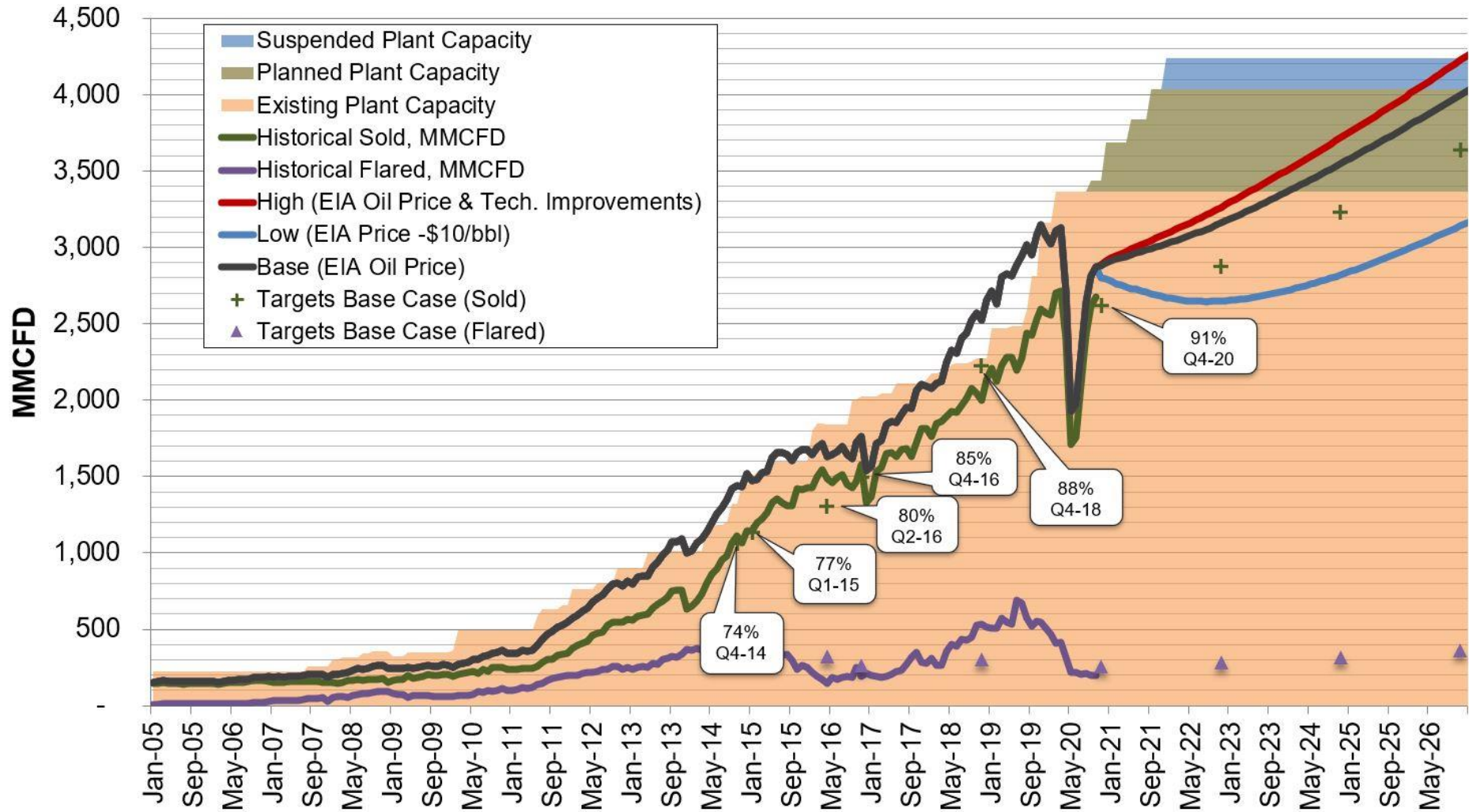


*\*EIA December 2020 SEO and January 2020 AEO Blend*

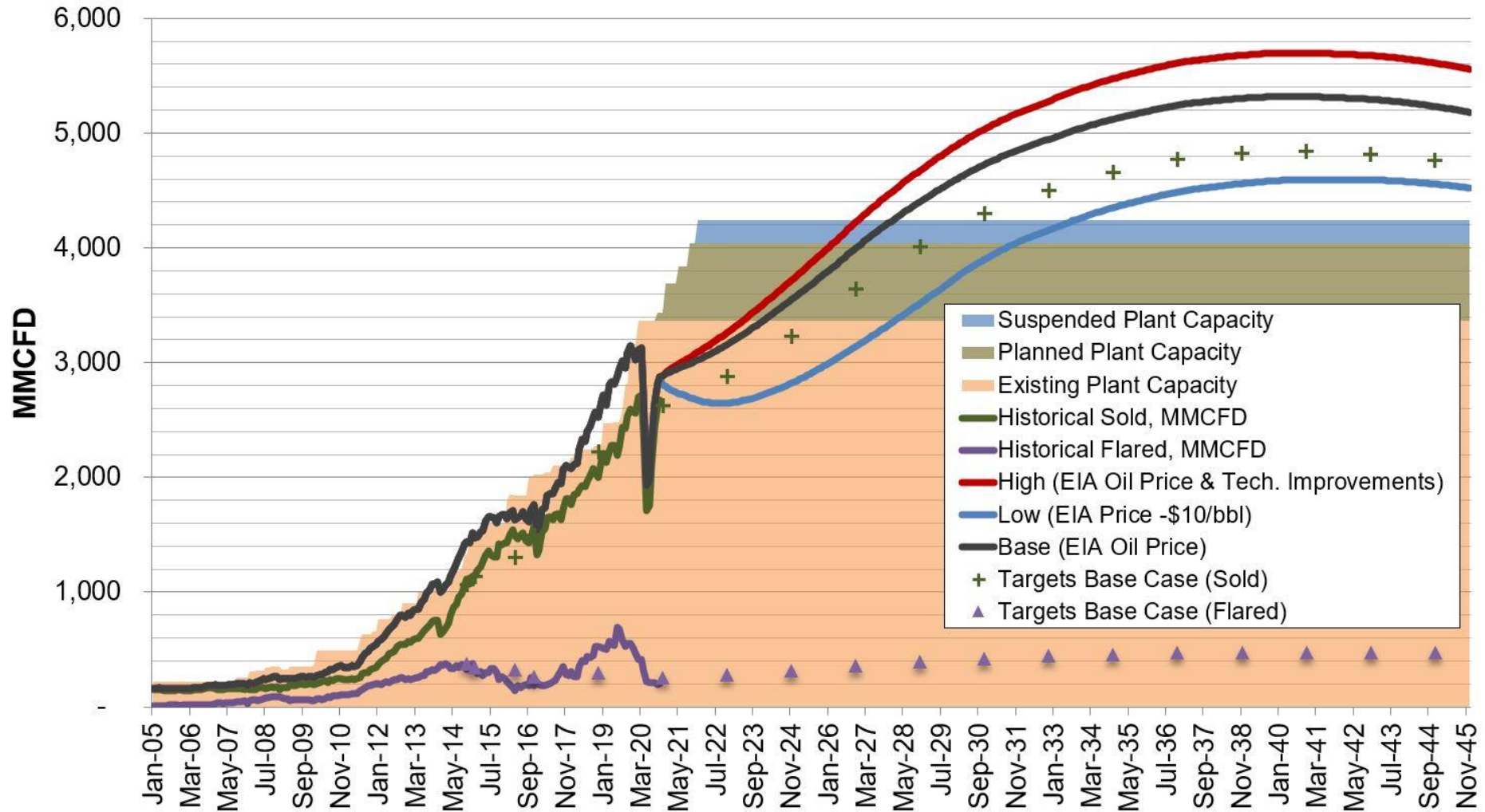




# Solving the Flaring Challenge



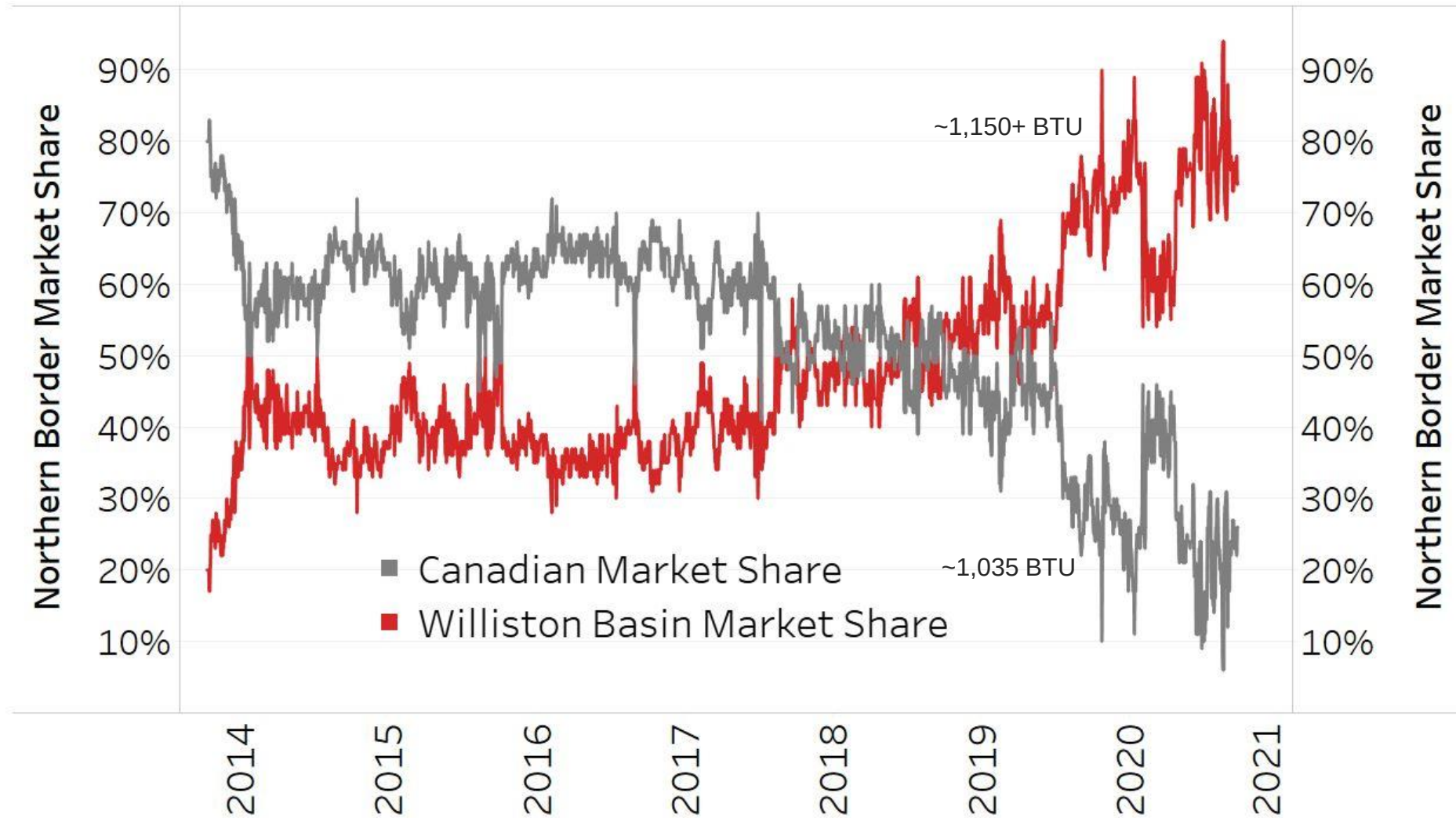
# Solving the Flaring Challenge



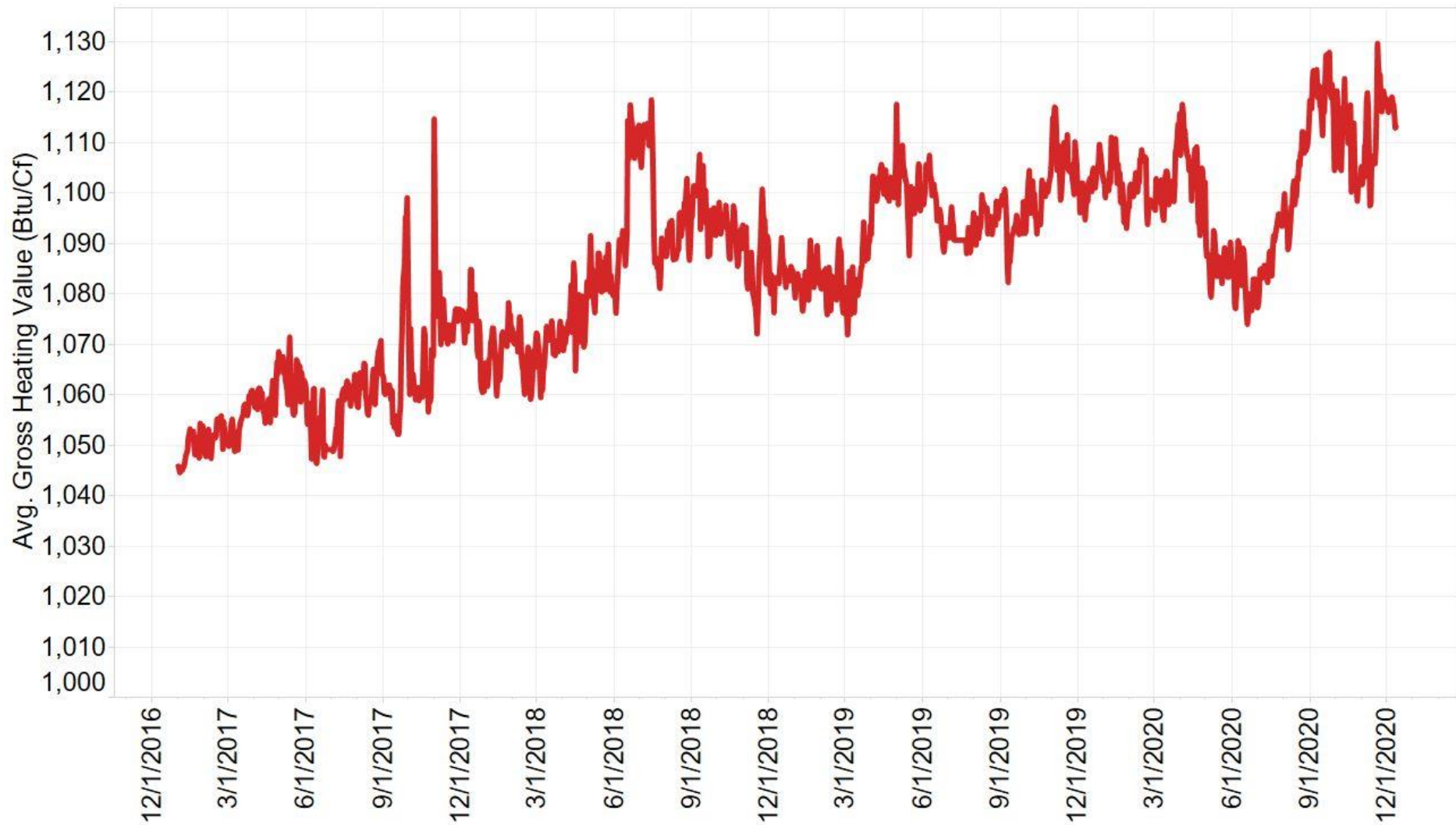
# Major Gas Pipeline and Processing Infrastructure



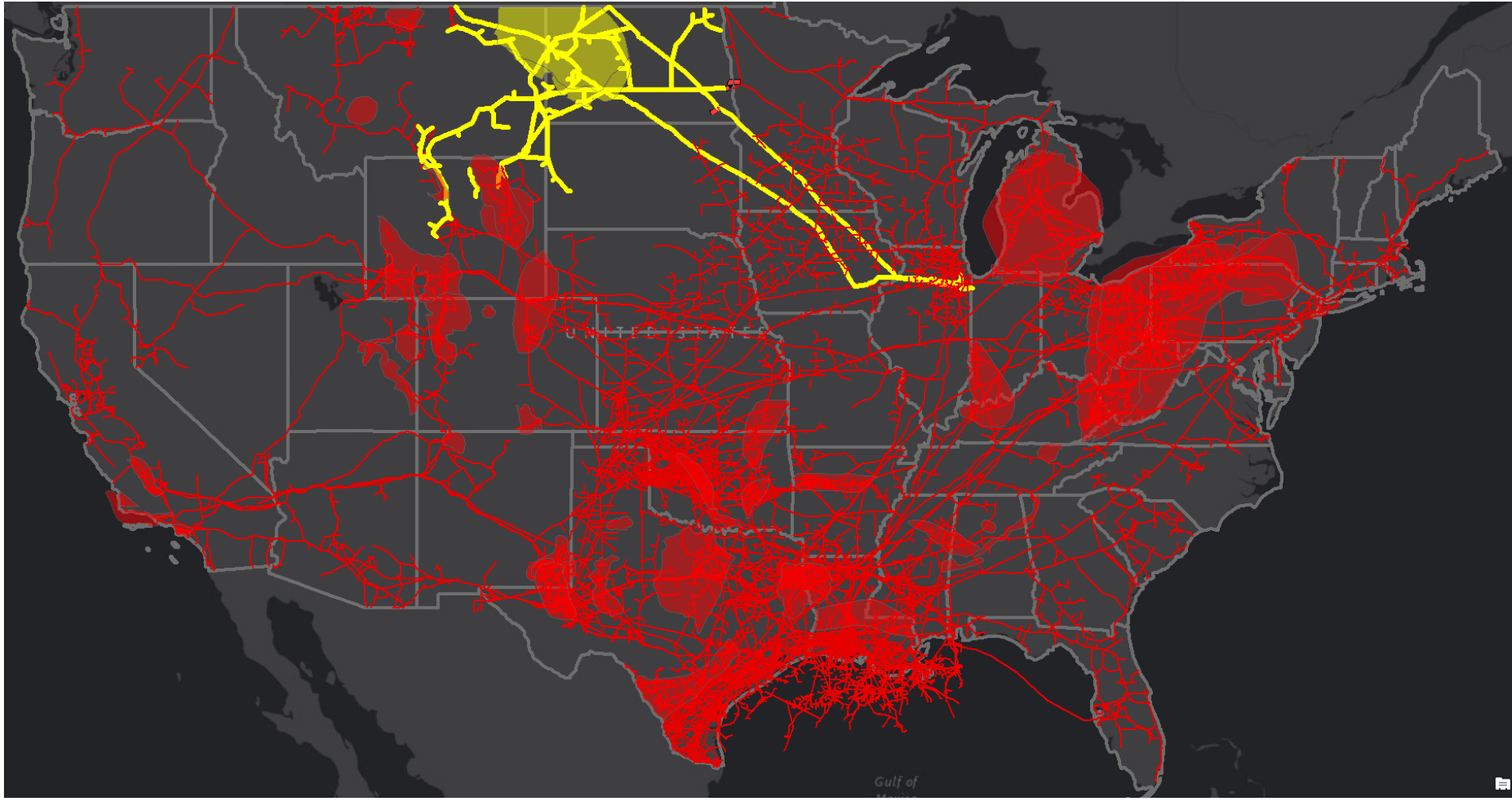
# Northern Border Pipeline Market Share



# Northern Border BTU at Glen Ullin, ND



# Bakken Natural Gas Infrastructure





# Contact Information

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



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