



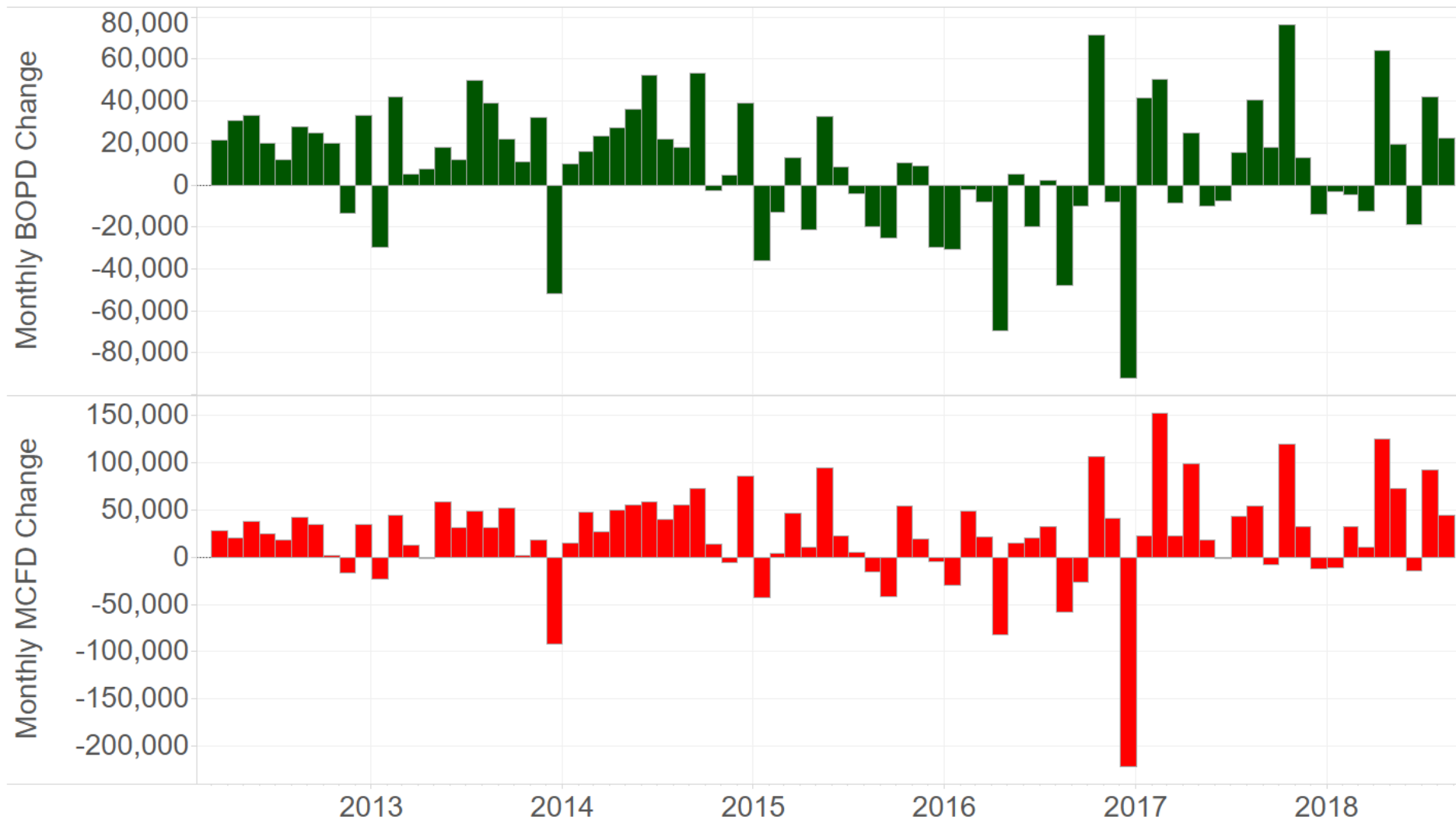
**October 2018 Monthly Update**  
**North Dakota Pipeline Authority**  
**Justin J. Kringstad**  
**October 12, 2018**

# US Williston Basin Oil Production - 2018

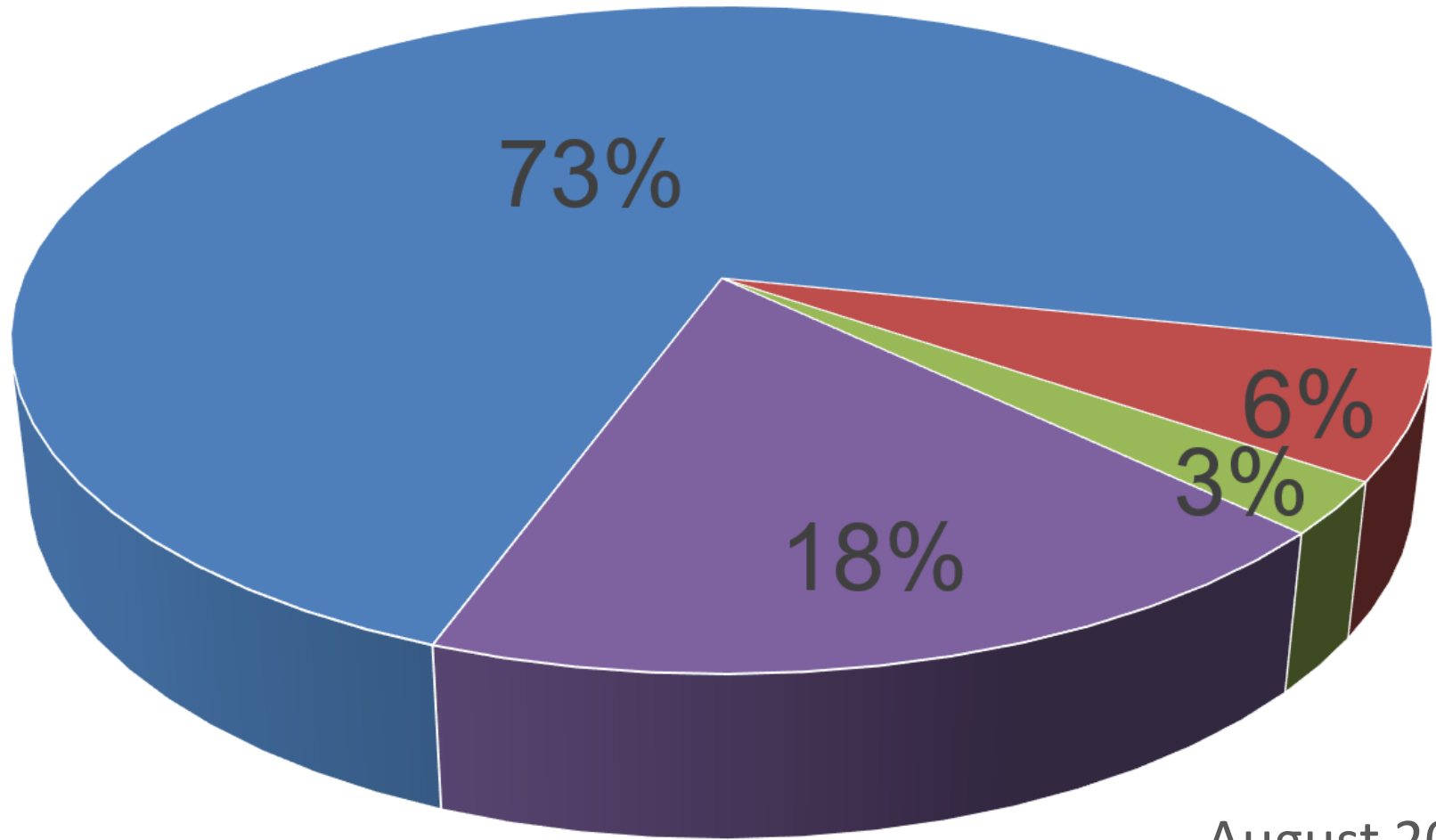
| <b>MONTH</b> | <b>ND</b> | <b>Eastern MT*</b> | <b>SD</b> | <b>TOTAL</b> |
|--------------|-----------|--------------------|-----------|--------------|
| January      | 1,179,712 | 50,122             | 3,555     | 1,233,389    |
| February     | 1,175,285 | 50,873             | 3,628     | 1,229,786    |
| March        | 1,162,727 | 49,828             | 3,502     | 1,216,057    |
| April        | 1,227,003 | 51,672             | 3,515     | 1,282,190    |
| May          | 1,246,355 | 52,125             | 3,471     | 1,301,951    |
| June         | 1,227,320 | 50,550             | 3,443     | 1,281,313    |
| July         | 1,269,290 | 47,262             | 3,377     | 1,319,928    |
| August       | 1,291,496 |                    |           |              |
| September    |           |                    |           |              |
| October      |           |                    |           |              |
| November     |           |                    |           |              |
| December     |           |                    |           |              |



# Monthly Production Change



# Estimated Williston Basin Oil Transportation



August 2018

■ Pipeline Export

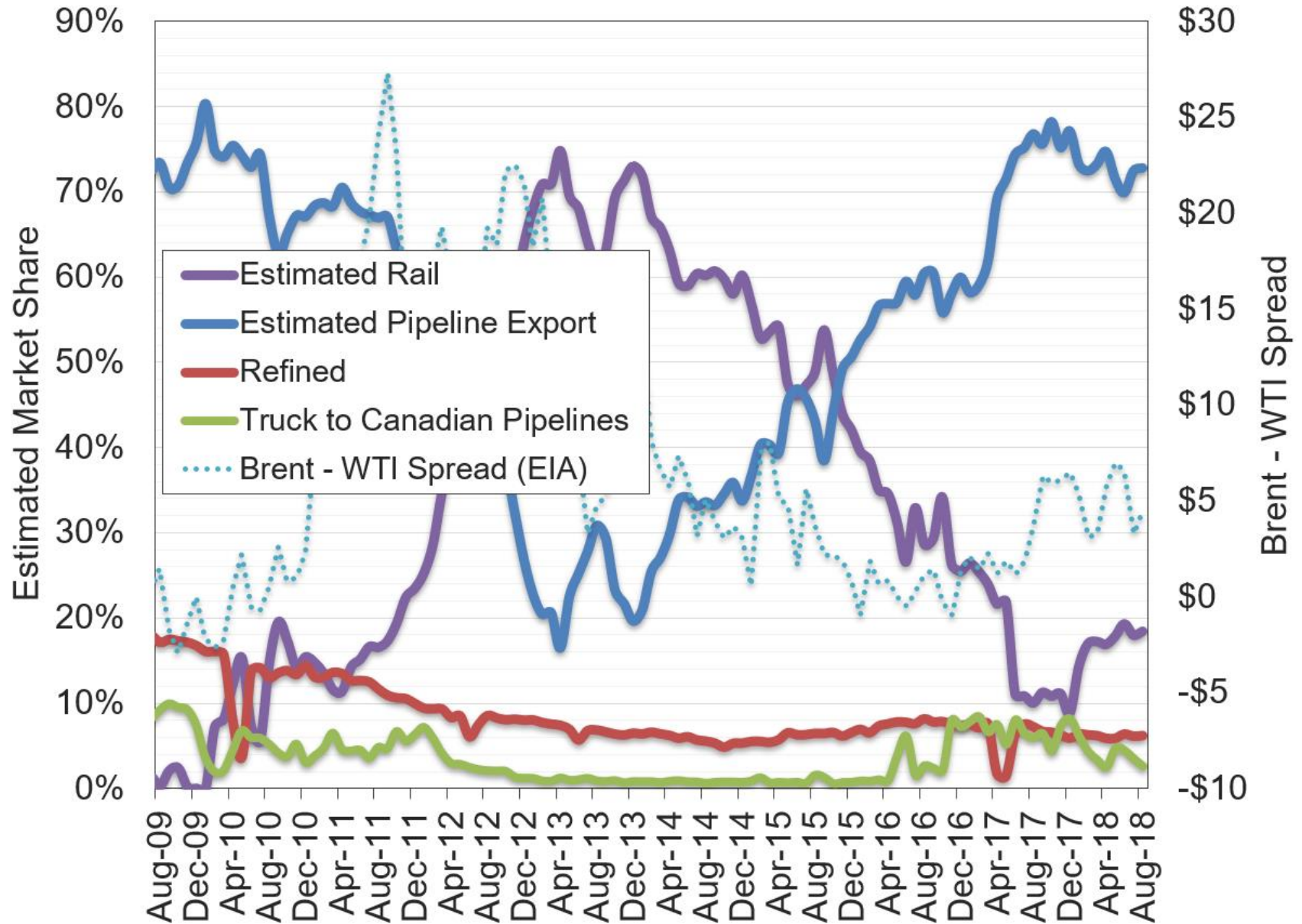
■ Refined

■ Truck to Canadian Pipelines

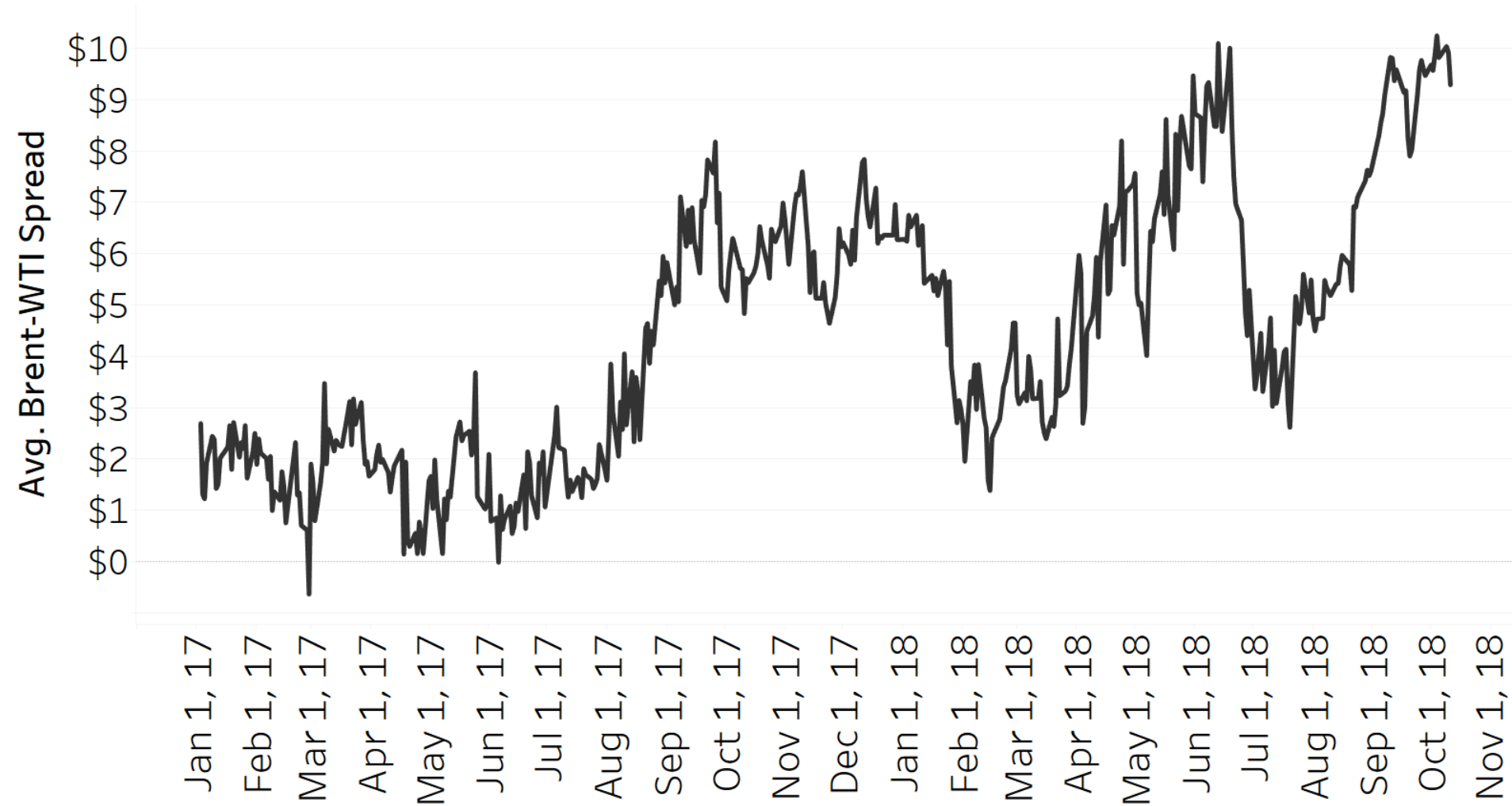
■ Estimated Rail



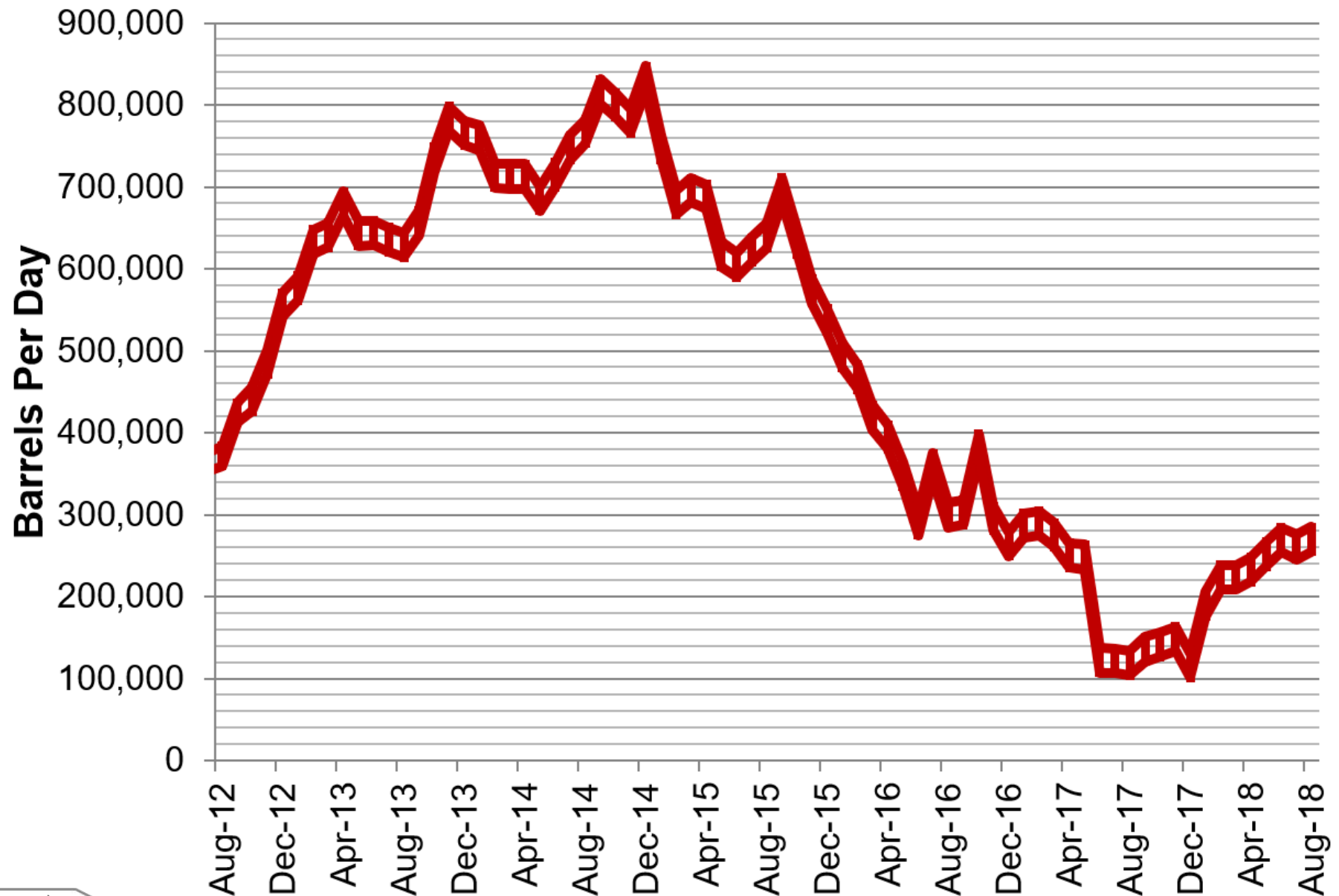
# Estimated Williston Basin Oil Transportation



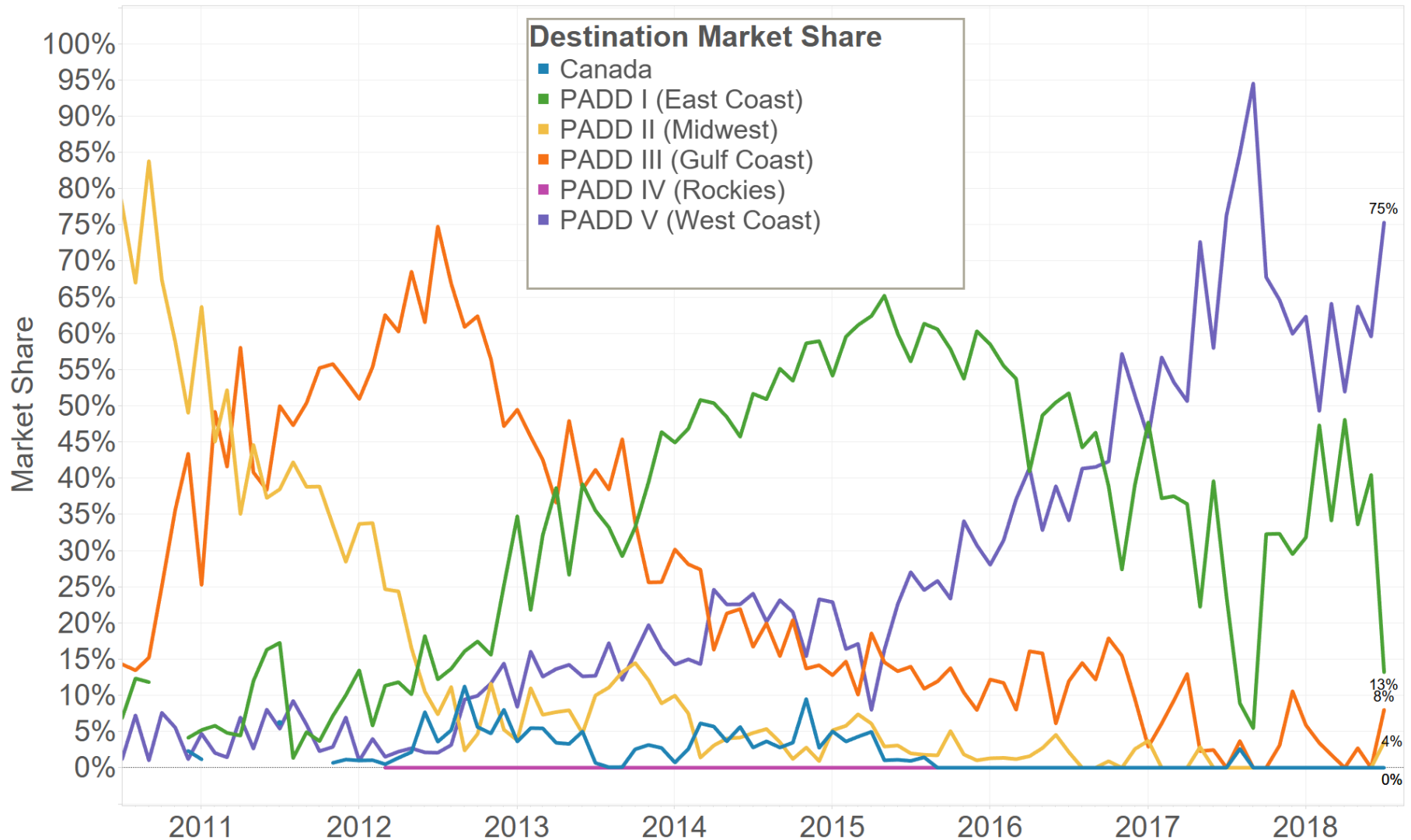
# Brent – WTI Price Spread



# Estimated ND Rail Export Volumes



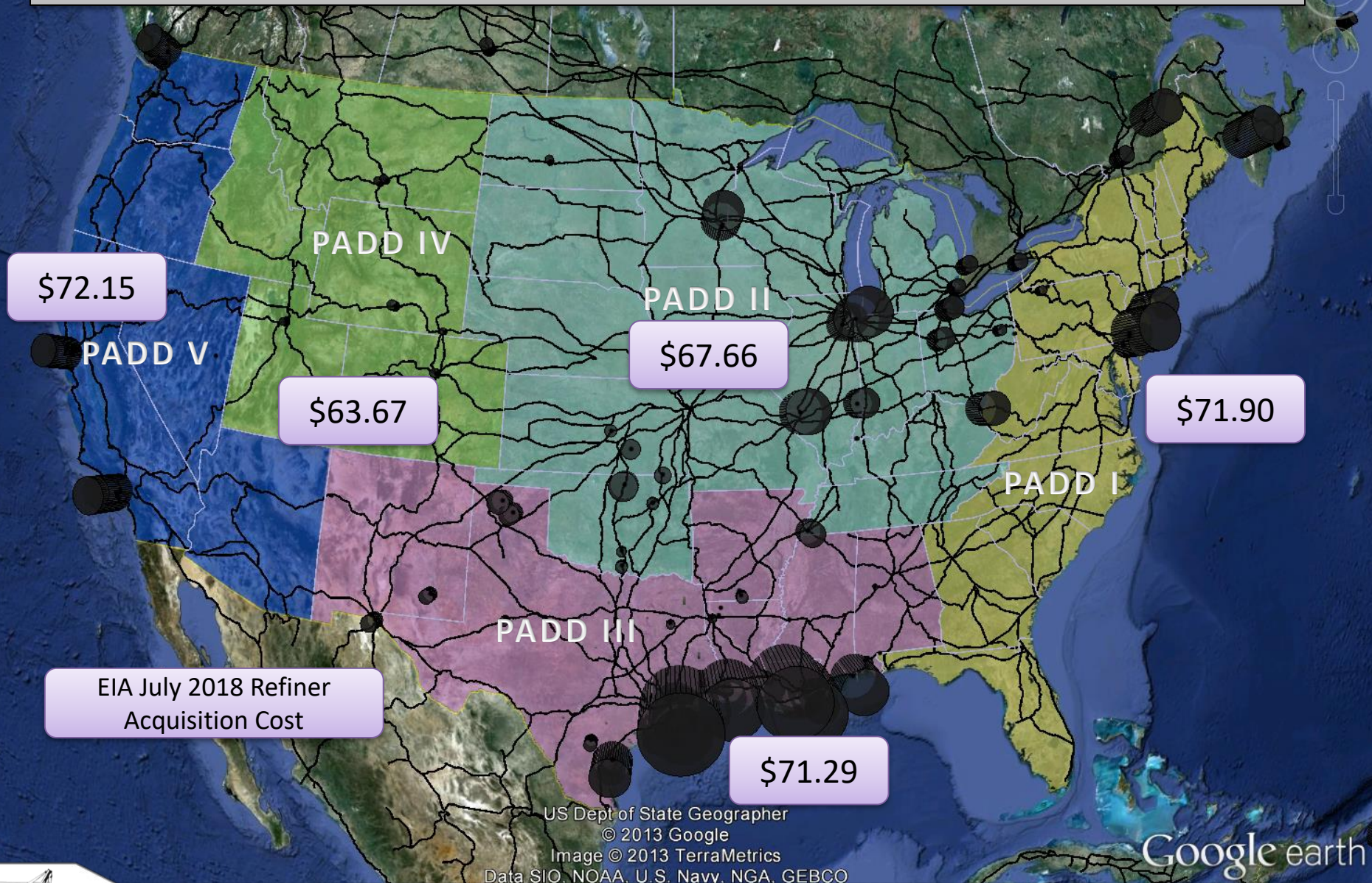
# Rail Destinations Market Share (July 2018)



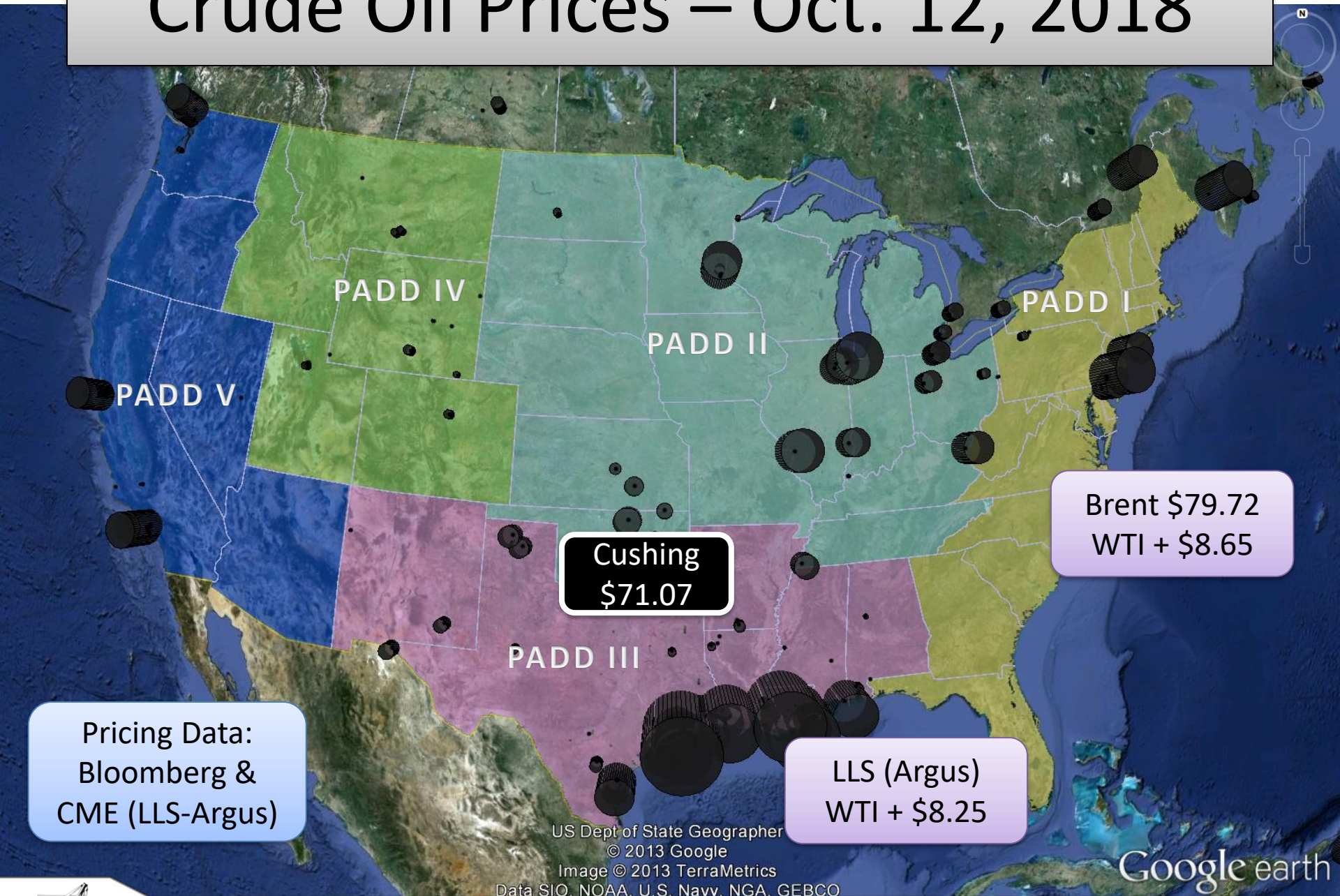
*Data for Rail Destination Market Share Provided by the US Energy Information Administration*



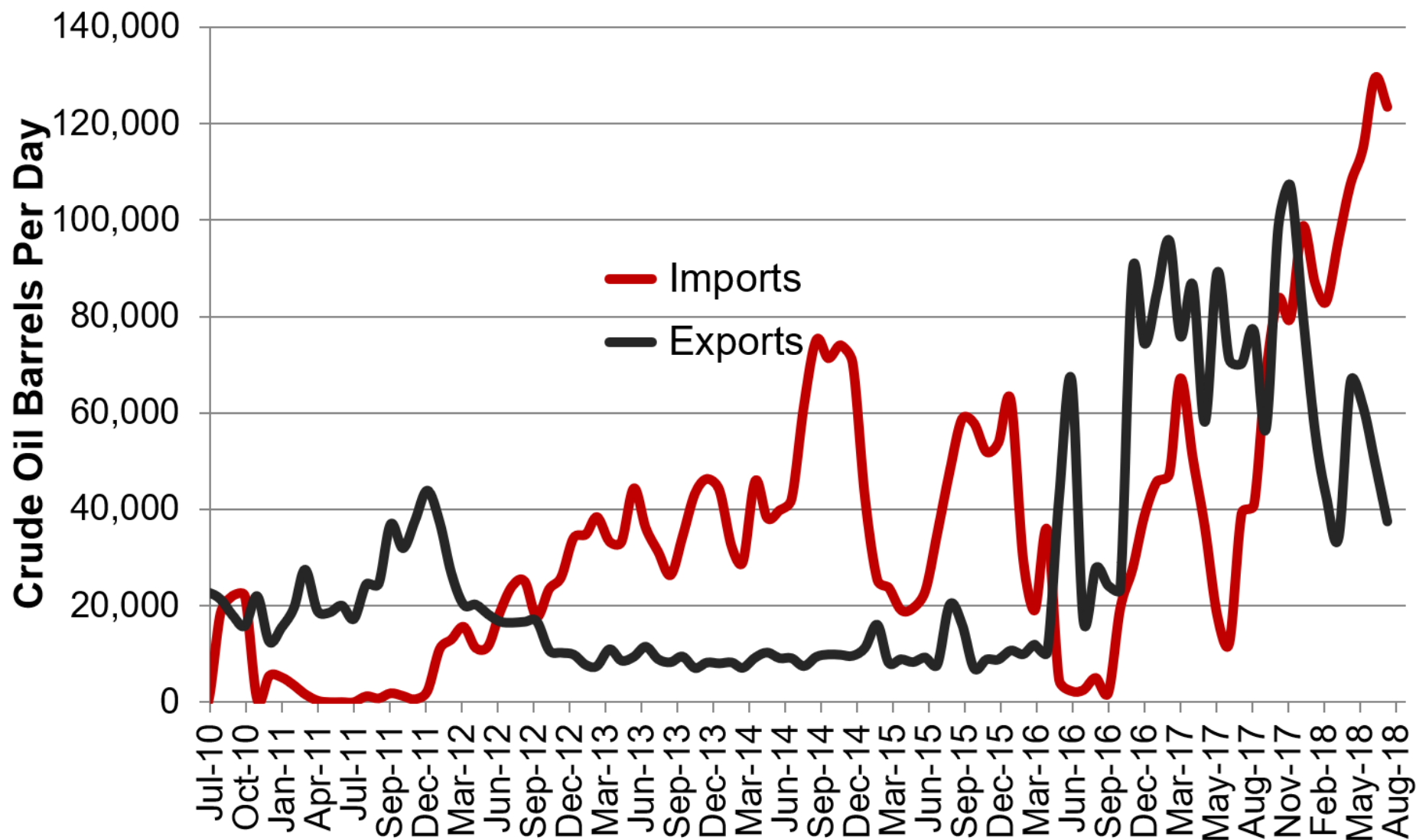
# Major Rail Lines and Refineries



# Crude Oil Prices – Oct. 12, 2018



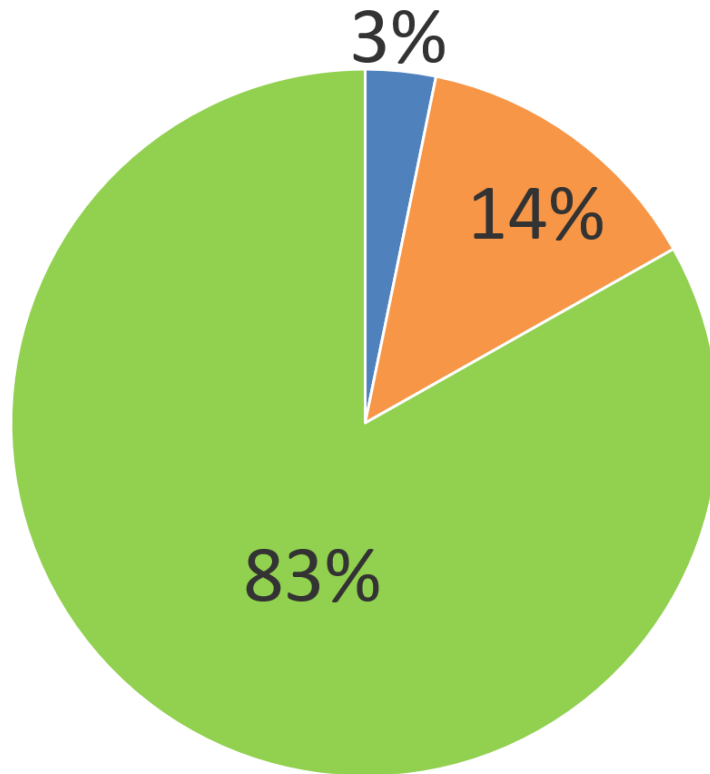
# Williston Basin Truck Imports and Exports with Canada



*Data for truck imports/exports chart is provided by the US International Trade Commission*



# 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.

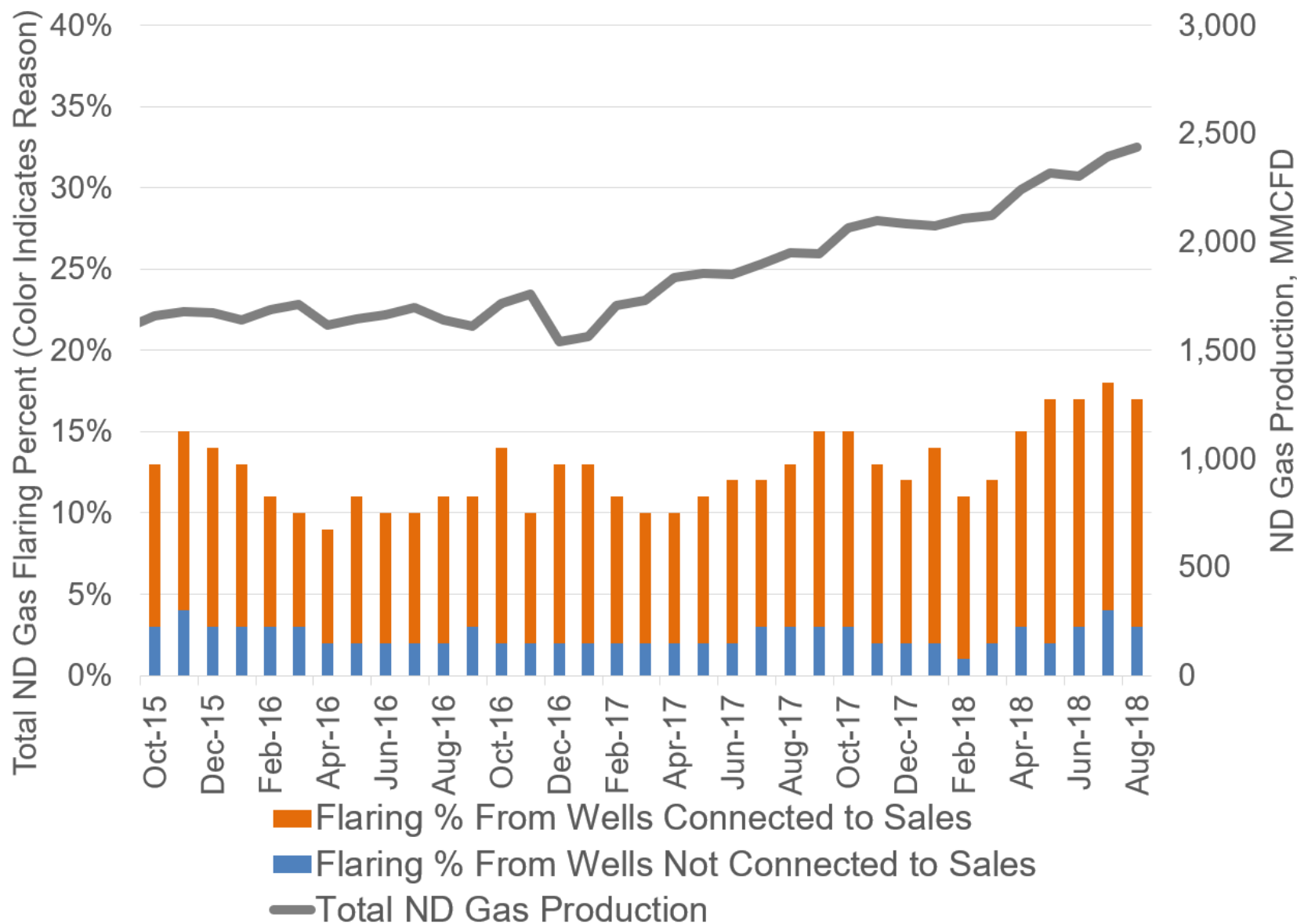
## Simple Terms

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

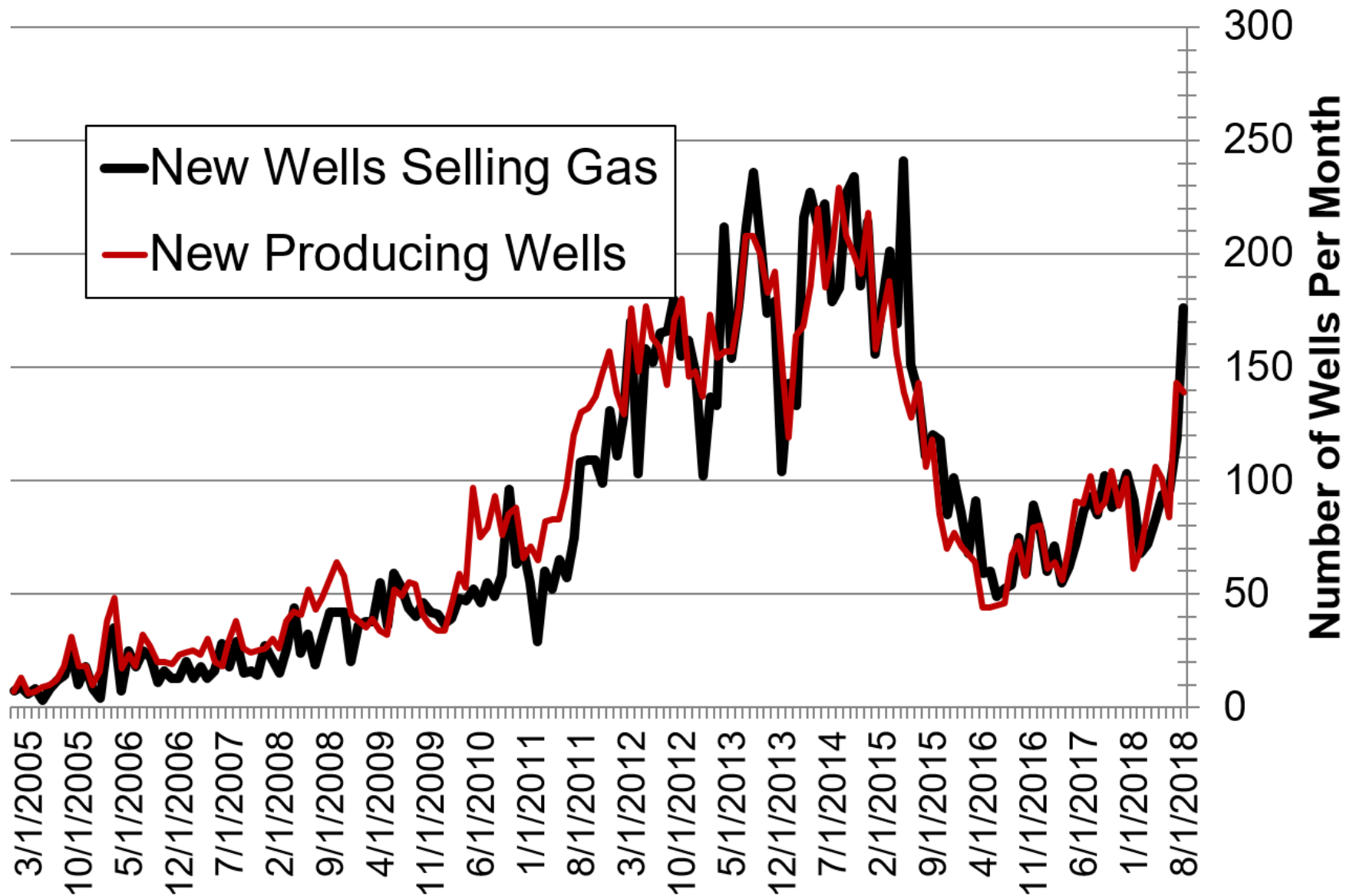
August 2018 Data – Non-Confidential Wells



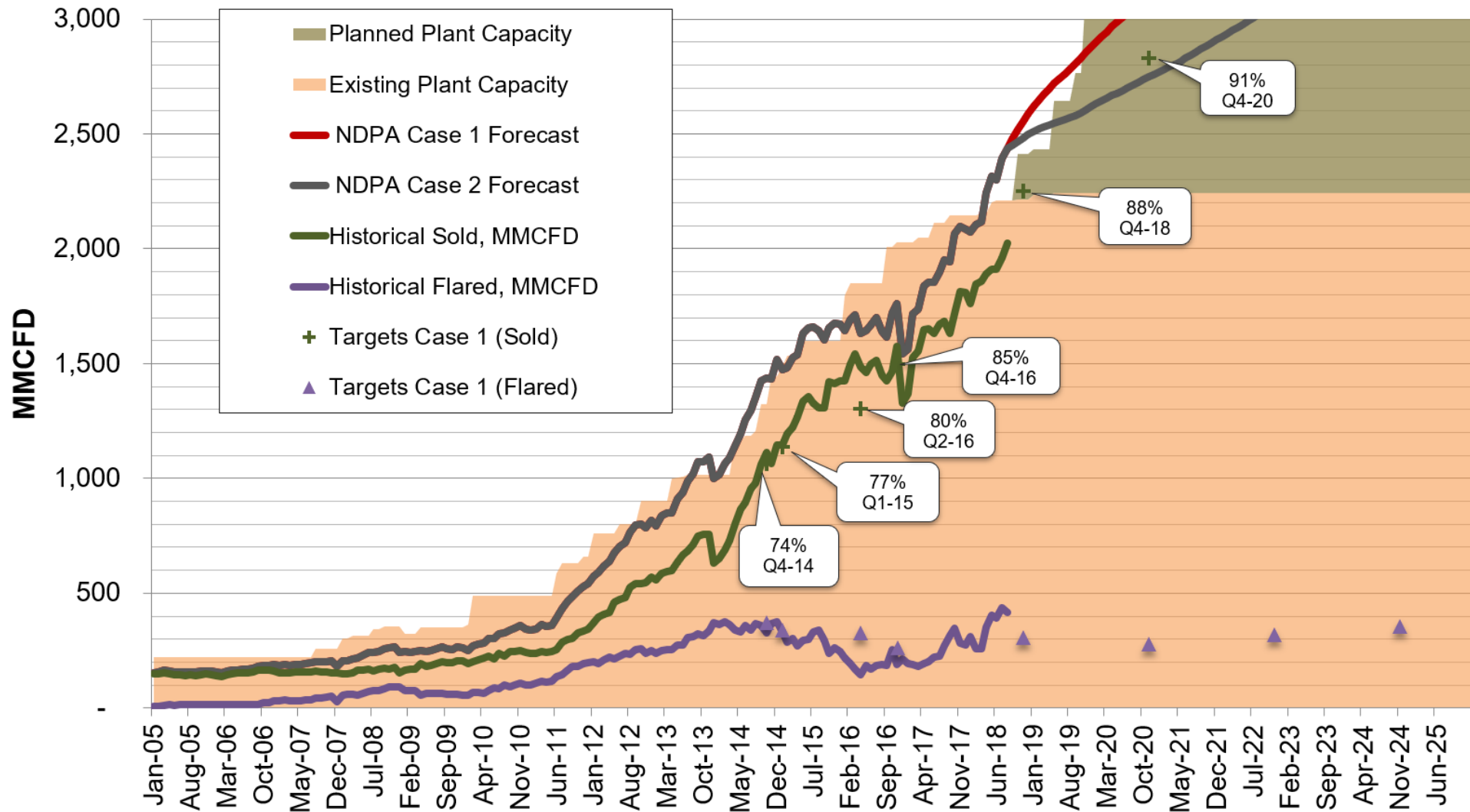
# Solving the Flaring Challenge



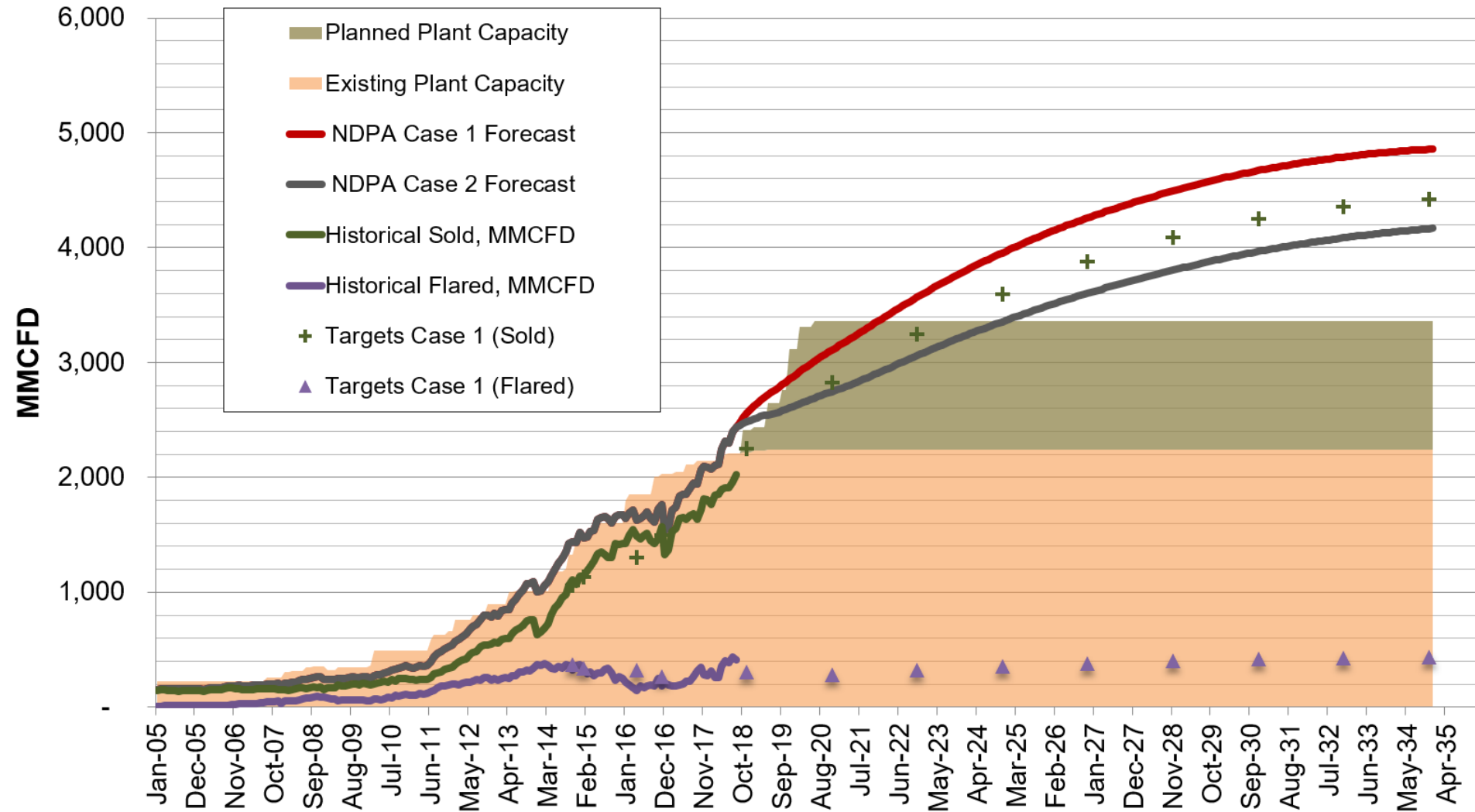
# Solving the Flaring Challenge



# Solving the Flaring Challenge



# Solving the Flaring Challenge



# Contact Information

Justin J. Kringstad, Director  
North Dakota Pipeline Authority

600 E. Boulevard Ave. Dept. 405  
Bismarck, ND 58505-0840

Phone: (701)220-6227

Fax: (701)328-2820

E-mail: [jjkringstad@ndpipelines.com](mailto:jjkringstad@ndpipelines.com)

Websites:

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

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



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