



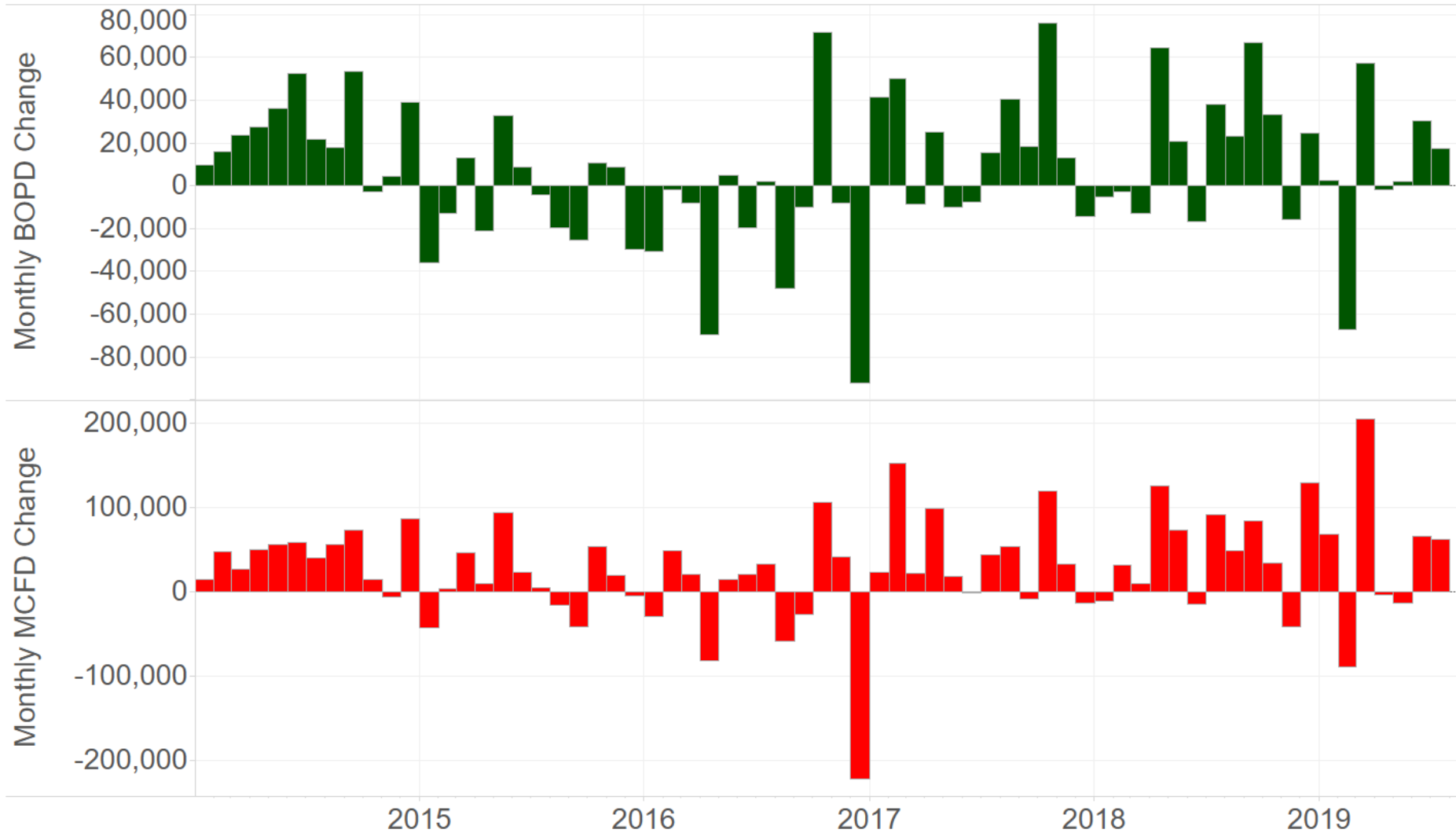
**September 2019 Monthly Update**  
**North Dakota Pipeline Authority**  
**Justin J. Kringstad**  
**September 16, 2019**

# US Williston Basin Oil Production - 2019

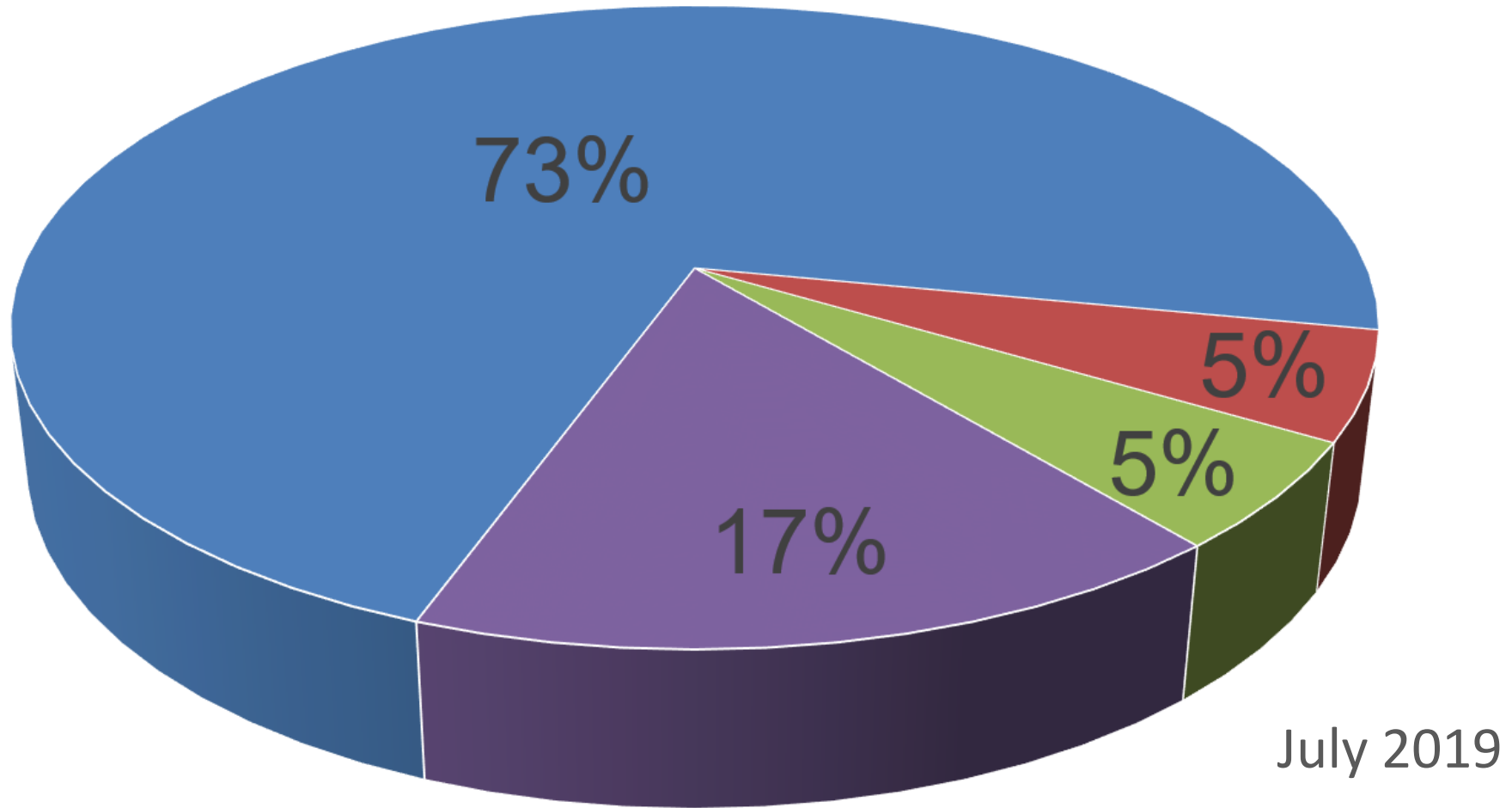
| <b>MONTH</b> | <b>ND</b> | <b>Eastern MT*</b> | <b>SD</b> | <b>TOTAL</b> |
|--------------|-----------|--------------------|-----------|--------------|
| January      | 1,403,850 | 57,565             | 3,276     | 1,464,691    |
| February     | 1,336,649 | 54,656             | 3,339     | 1,394,644    |
| March        | 1,394,194 | 56,211             | 3,256     | 1,453,661    |
| April        | 1,392,465 | 57,678             | 3,231     | 1,453,373    |
| May          | 1,394,648 | 53,945             | 3,093     | 1,451,685    |
| June         | 1,425,230 |                    | 3,118     |              |
| July         | 1,442,459 |                    |           |              |
| August       |           |                    |           |              |
| September    |           |                    |           |              |
| October      |           |                    |           |              |
| November     |           |                    |           |              |
| December     |           |                    |           |              |



# Monthly Production Change



# Estimated Williston Basin Oil Transportation



■ Pipeline Export

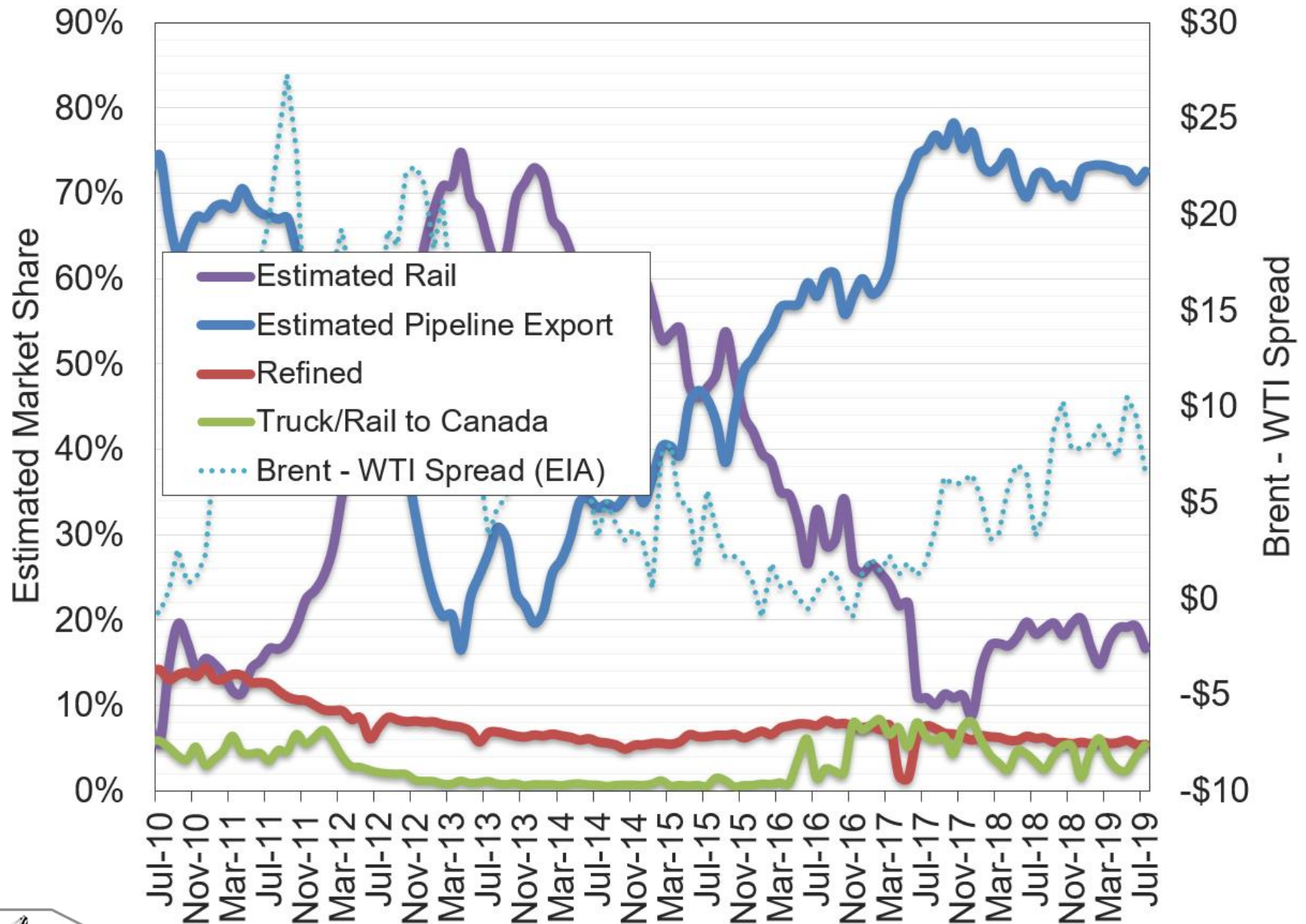
■ Truck/Rail to Canada

■ Refined

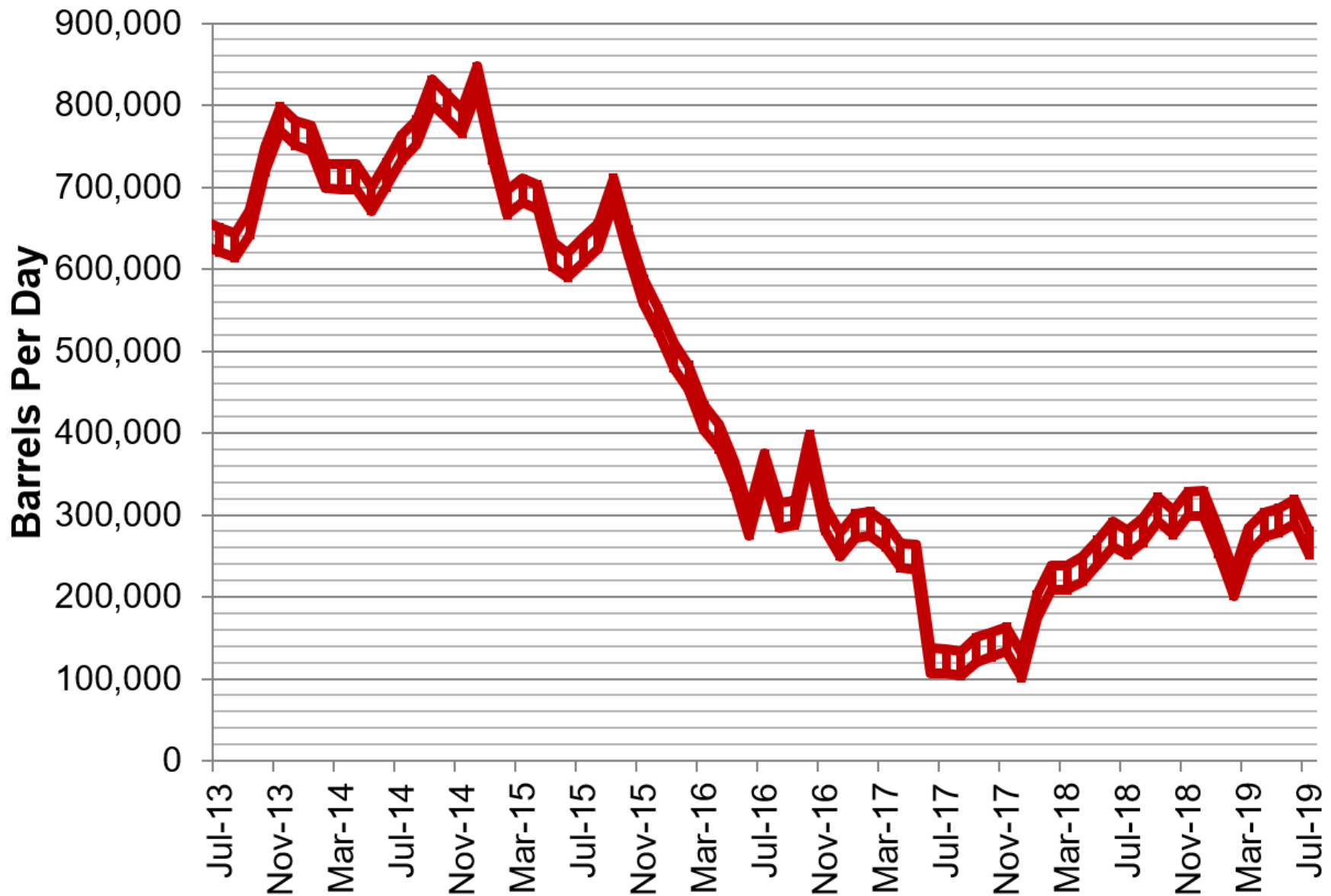
■ Estimated Rail



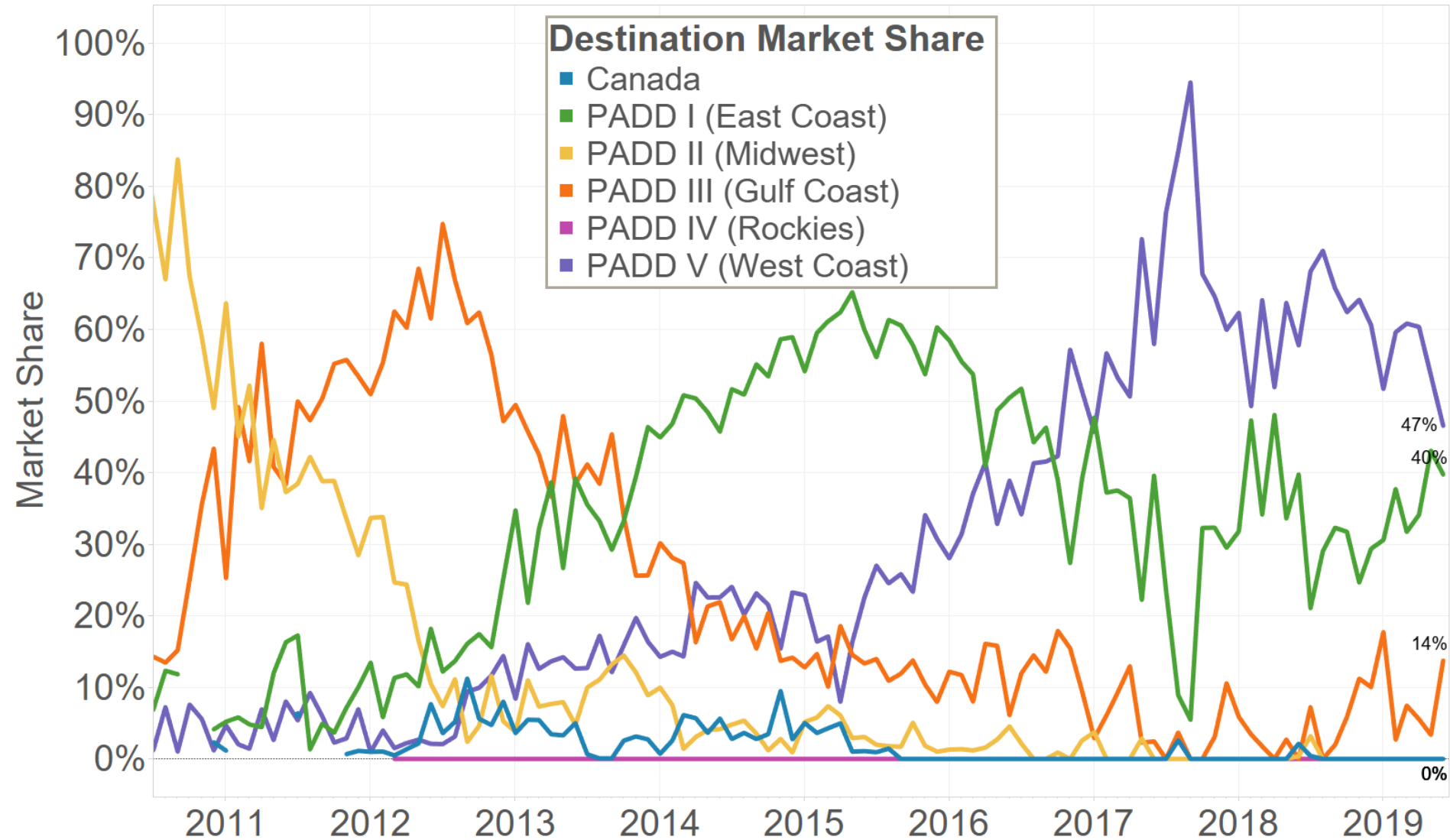
# Estimated Williston Basin Oil Transportation



# Estimated ND Rail Export Volumes



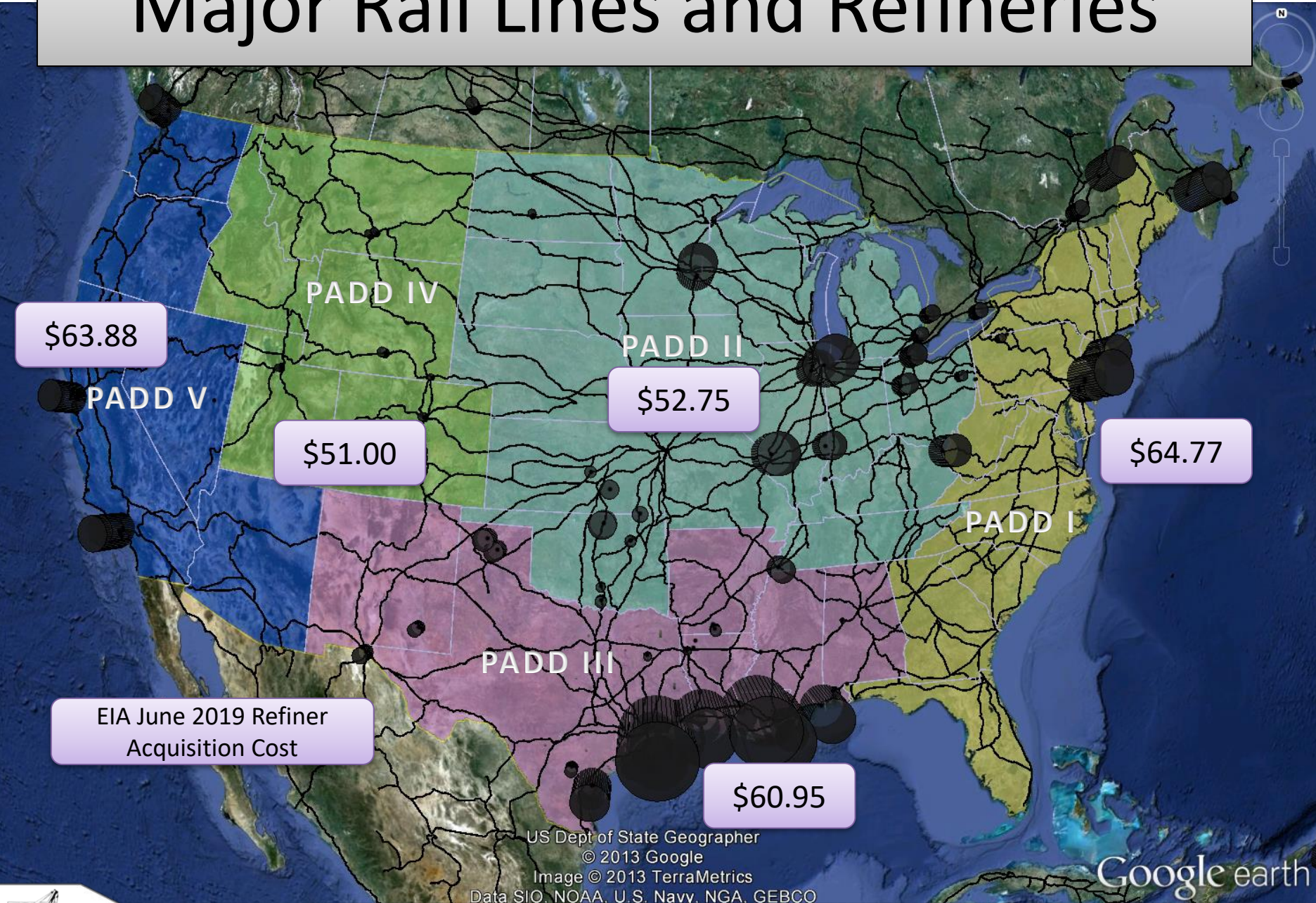
# Rail Destinations Market Share (June 2019)



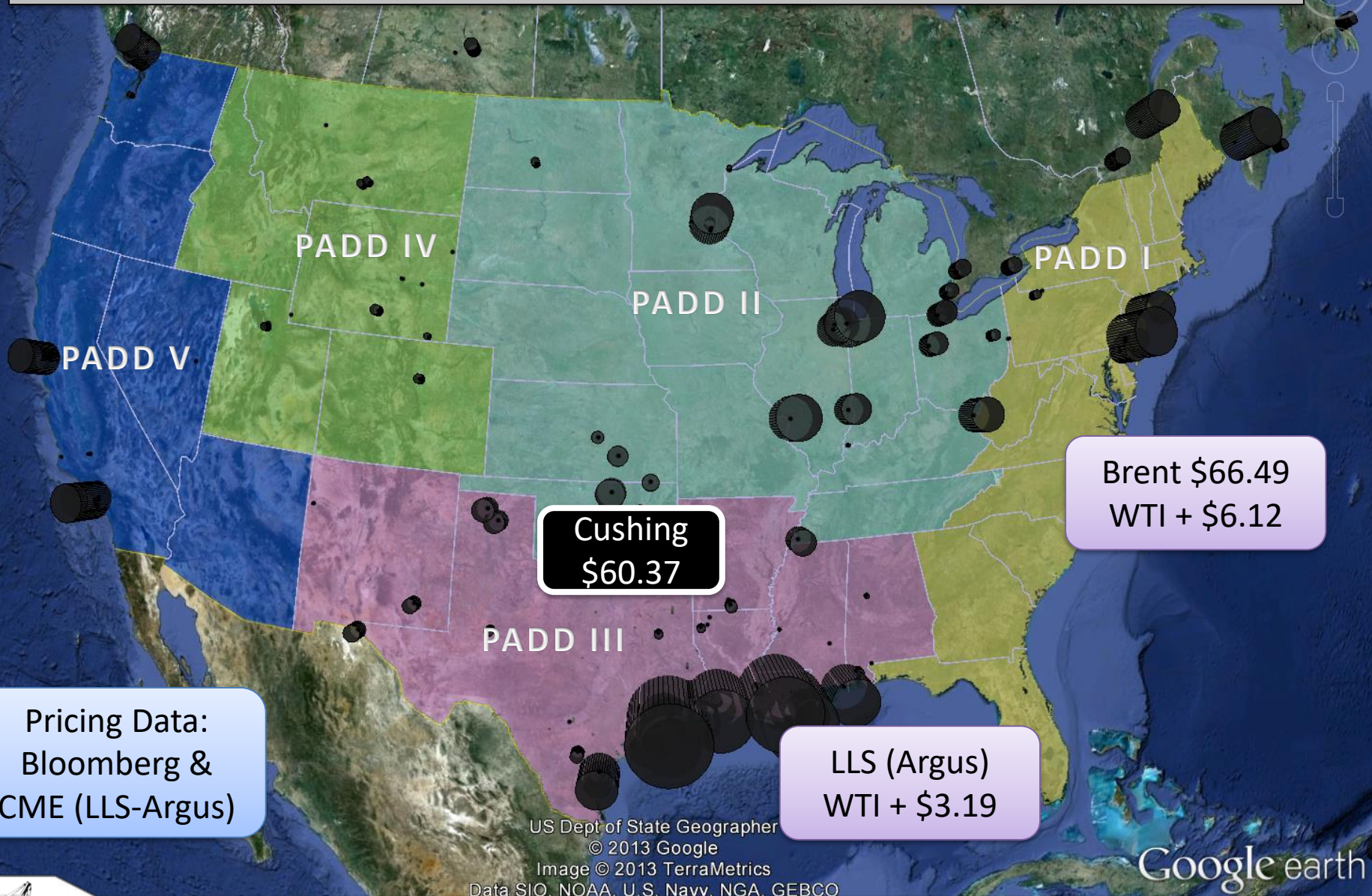
*Data for Rail Destination Market Share Provided by the US Energy Information Administration*



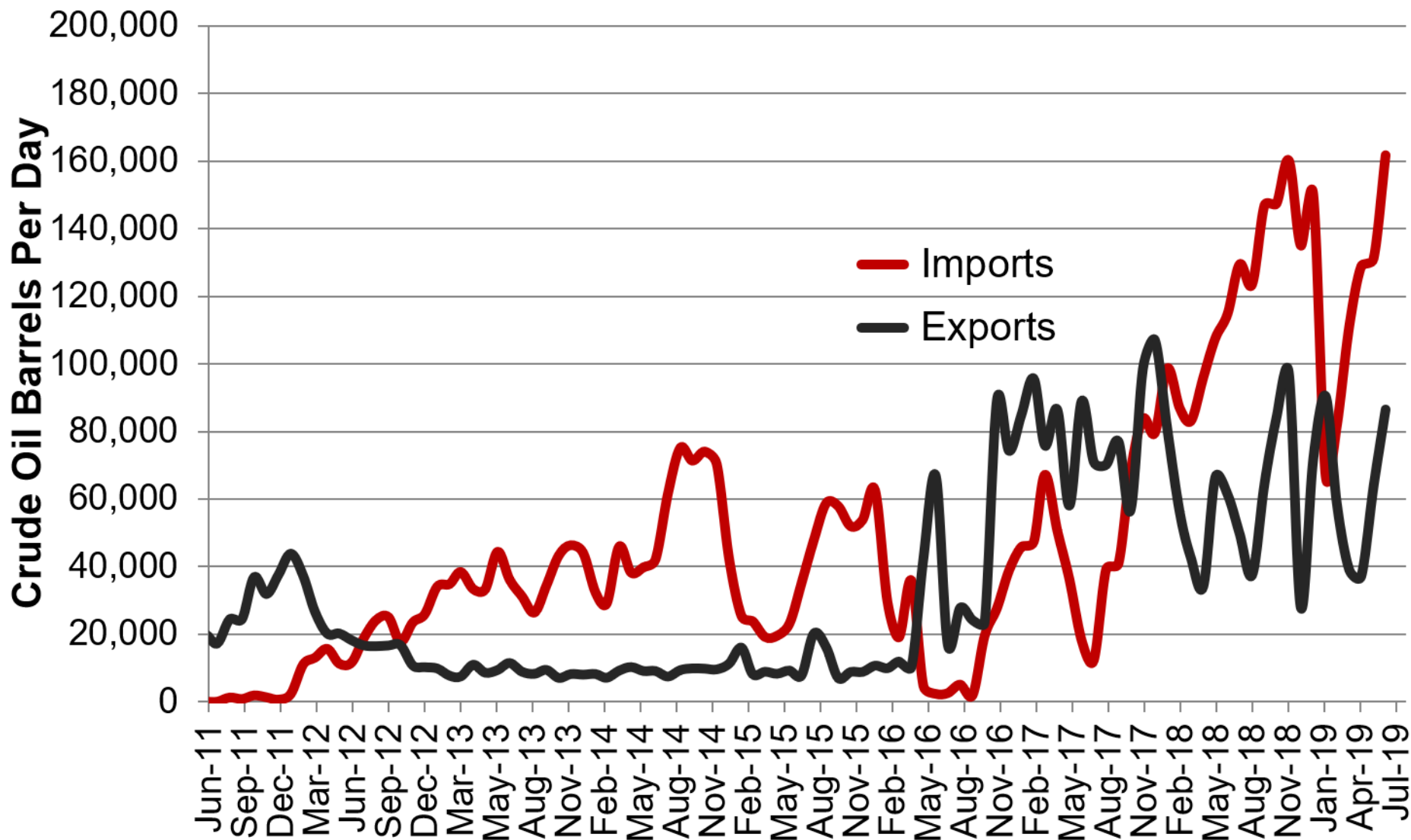
# Major Rail Lines and Refineries



# Crude Oil Prices – Sep. 16, 2019



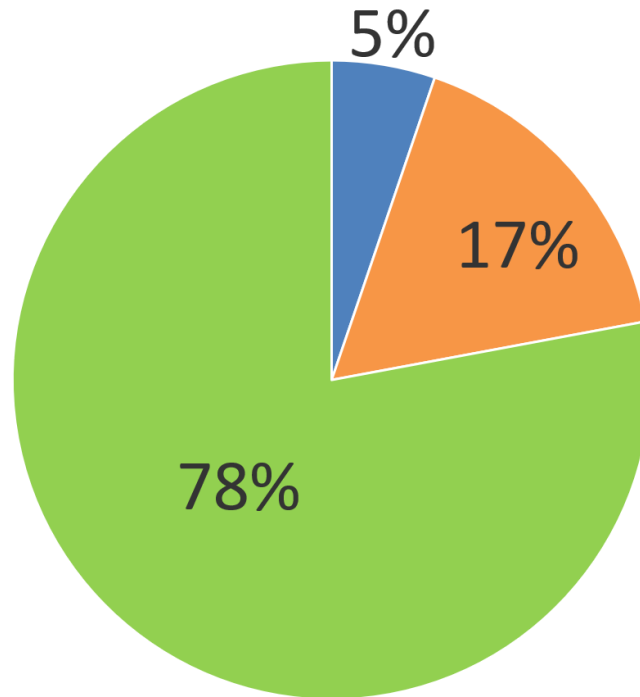
# Williston Basin Truck/Rail Imports and Exports with Canada



*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.

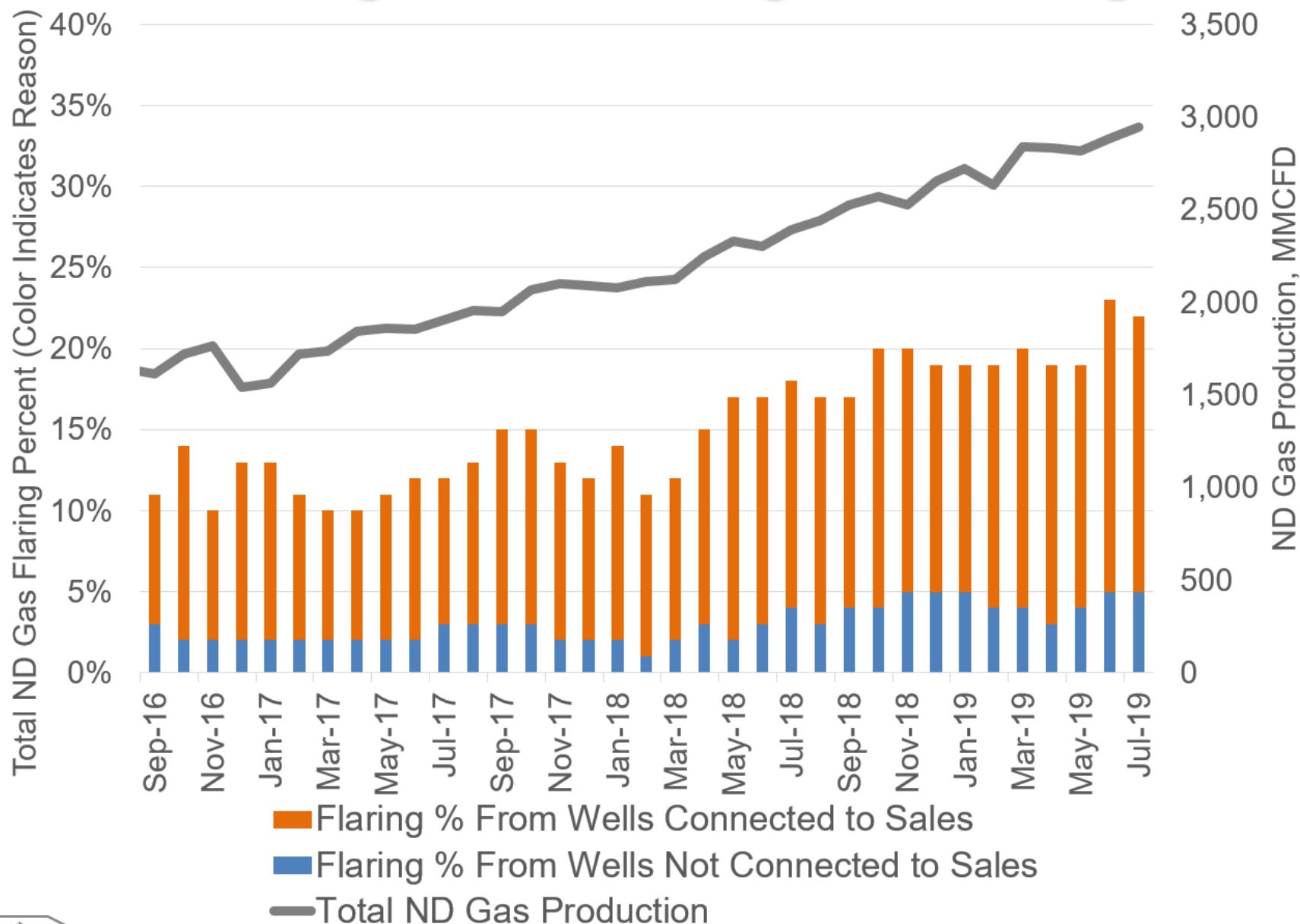
## Simple Terms

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

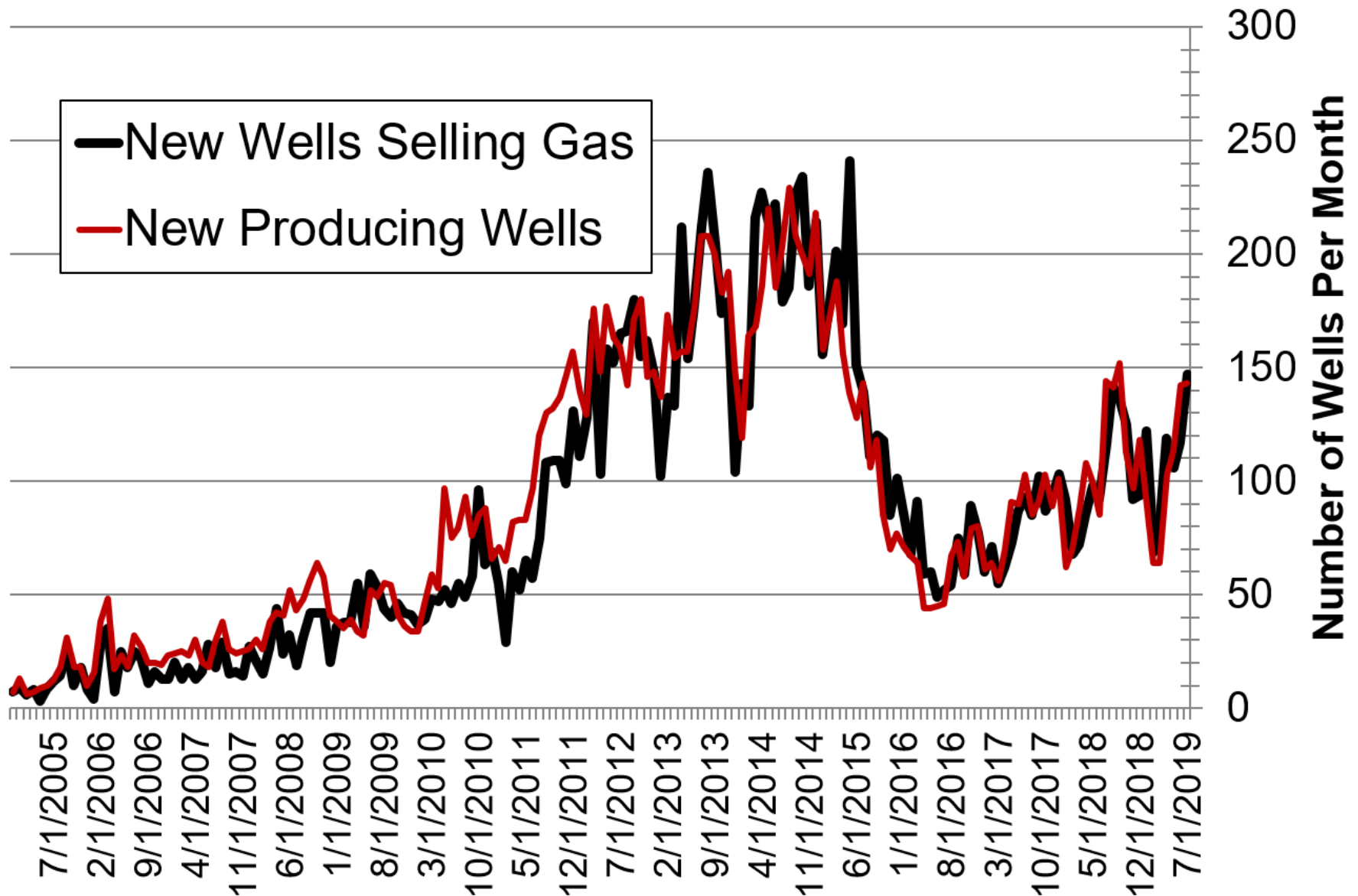
July 2019 Data – Non-Confidential Wells



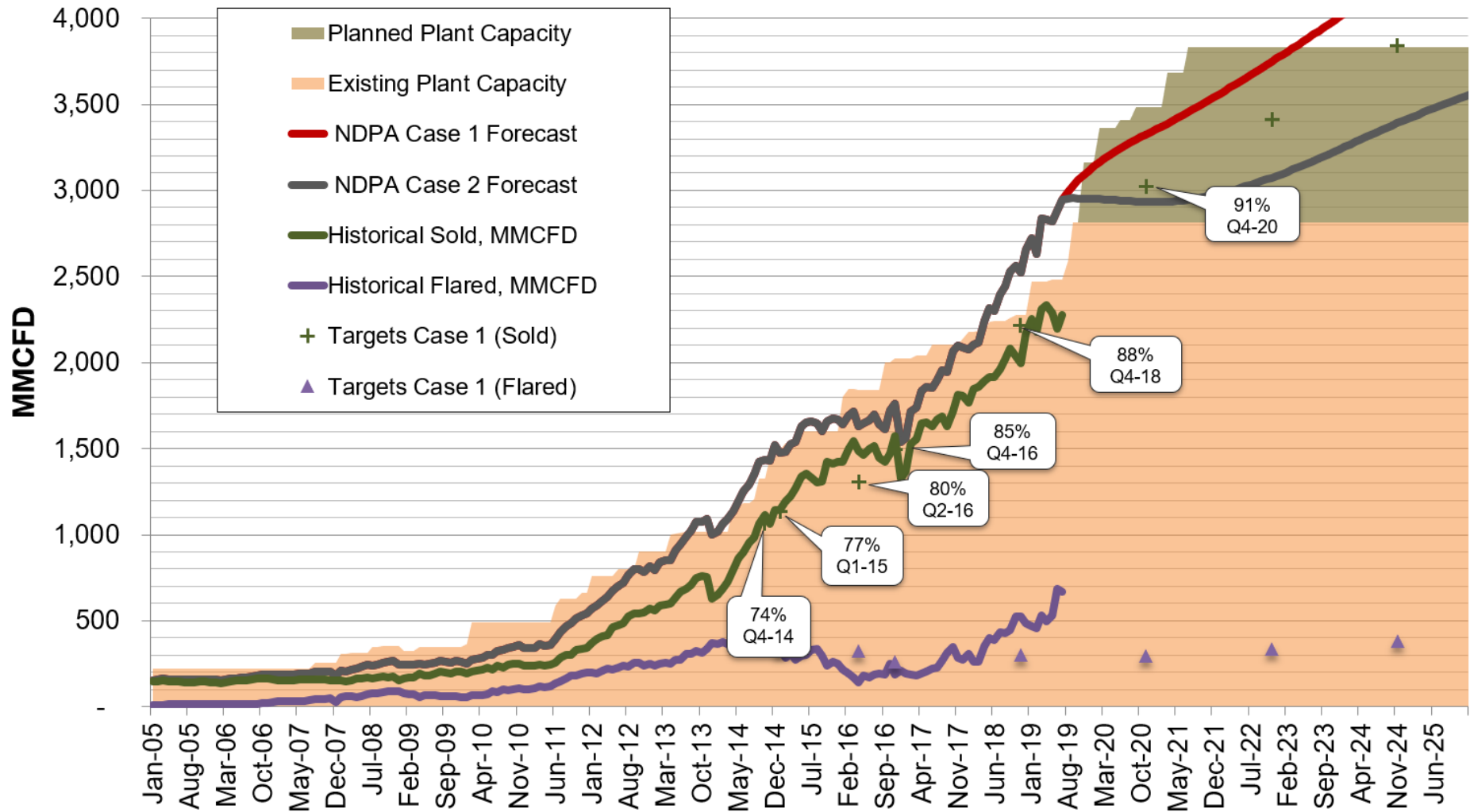
# Solving the Flaring Challenge



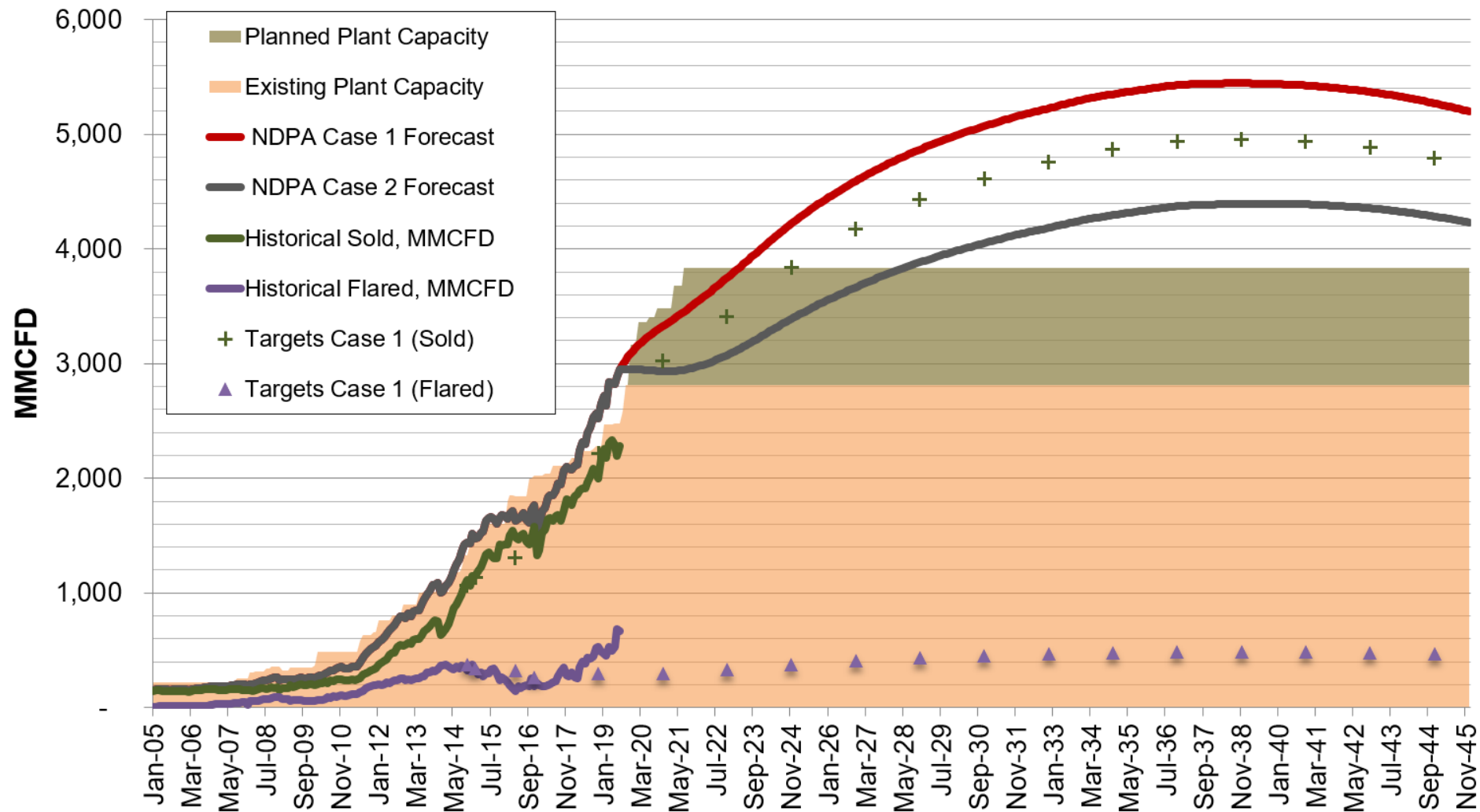
# Solving the Flaring Challenge



# Solving the Flaring Challenge



# Solving the Flaring Challenge



# Contact Information

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