



December 2018 Monthly Update

North Dakota Pipeline Authority

Justin J. Kringstad

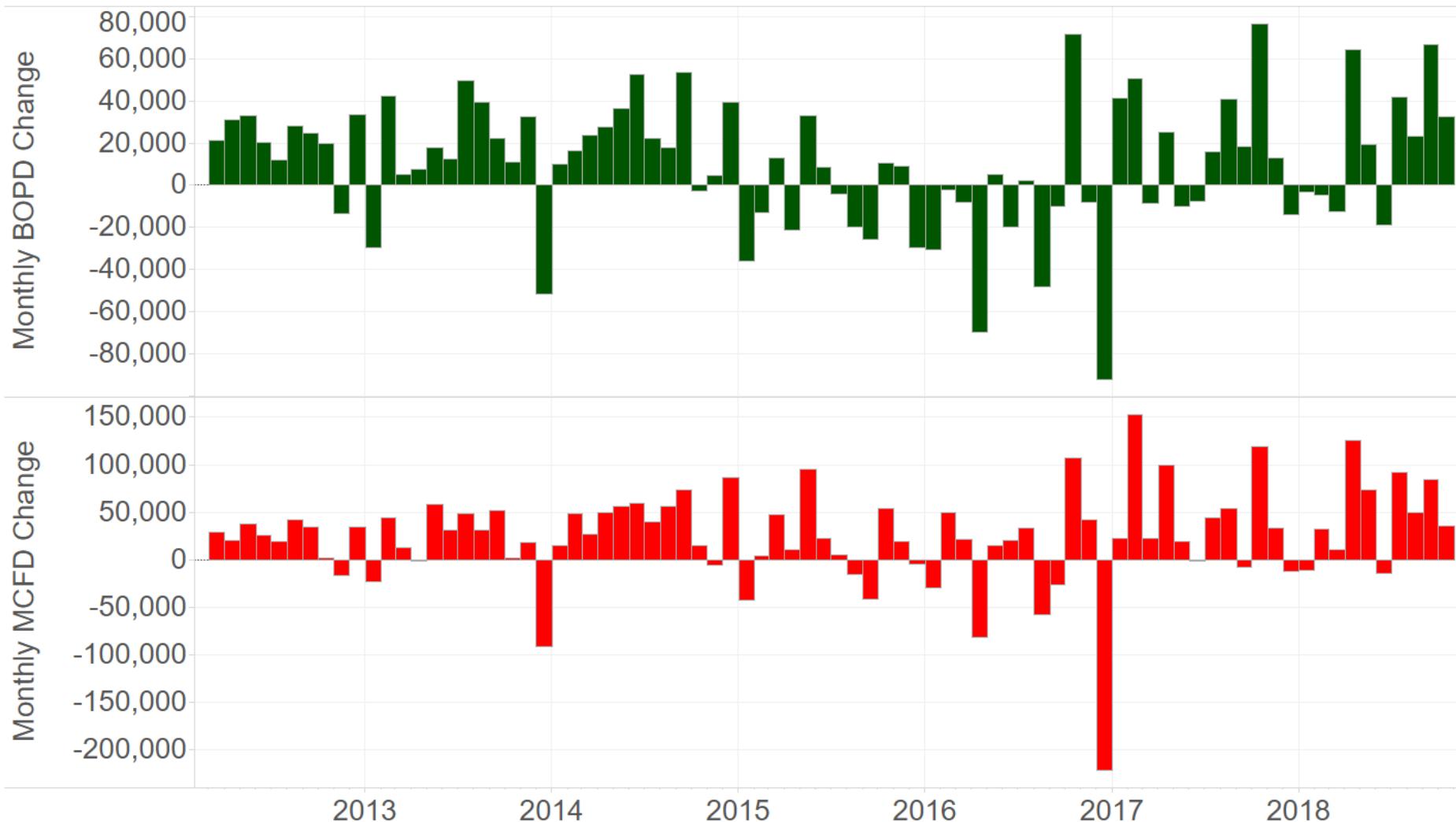
December 14, 2018

US Williston Basin Oil Production - 2018

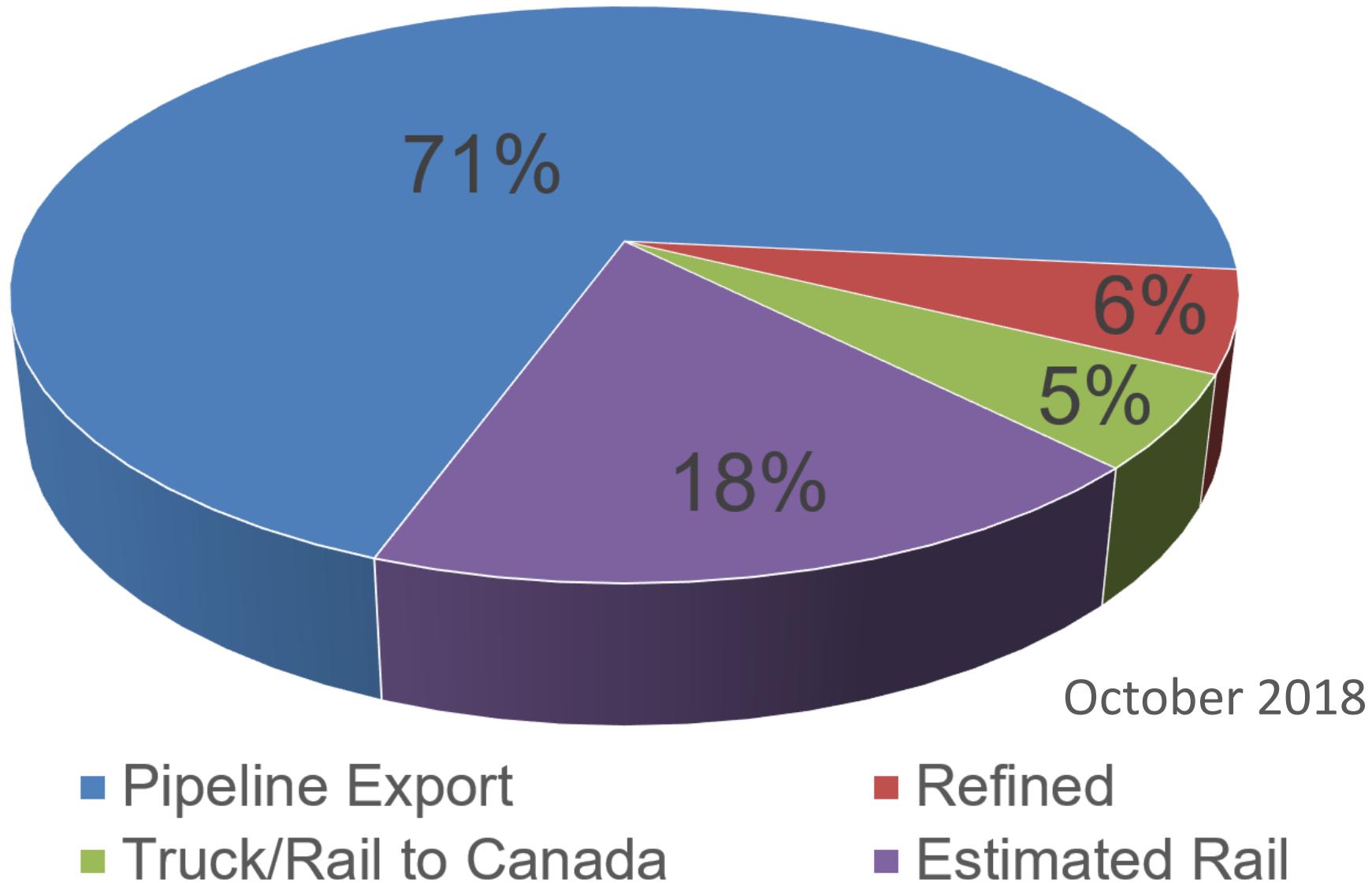
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,177,679	50,110	3,555	1,231,343
February	1,175,307	50,861	3,628	1,229,795
March	1,162,354	49,837	3,502	1,215,693
April	1,227,238	52,426	3,515	1,283,179
May	1,248,202	53,717	3,471	1,305,390
June	1,227,436	53,987	3,443	1,284,866
July	1,269,297	53,194	3,377	1,325,868
August	1,292,533	55,599	3,471	1,351,603
September	1,359,282	54,516	3,475	1,417,273
October	1,391,877			
November				
December				



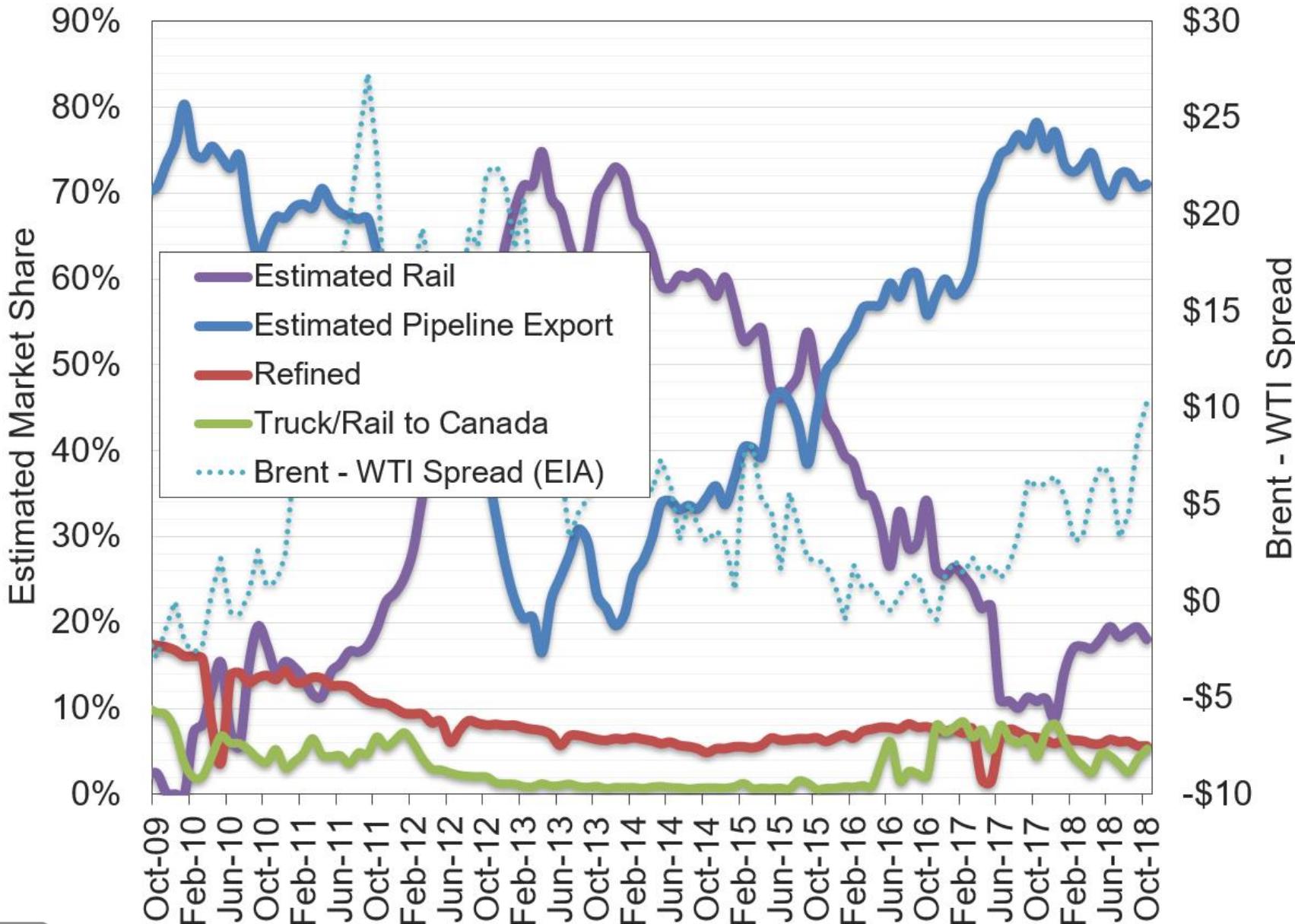
Monthly Production Change



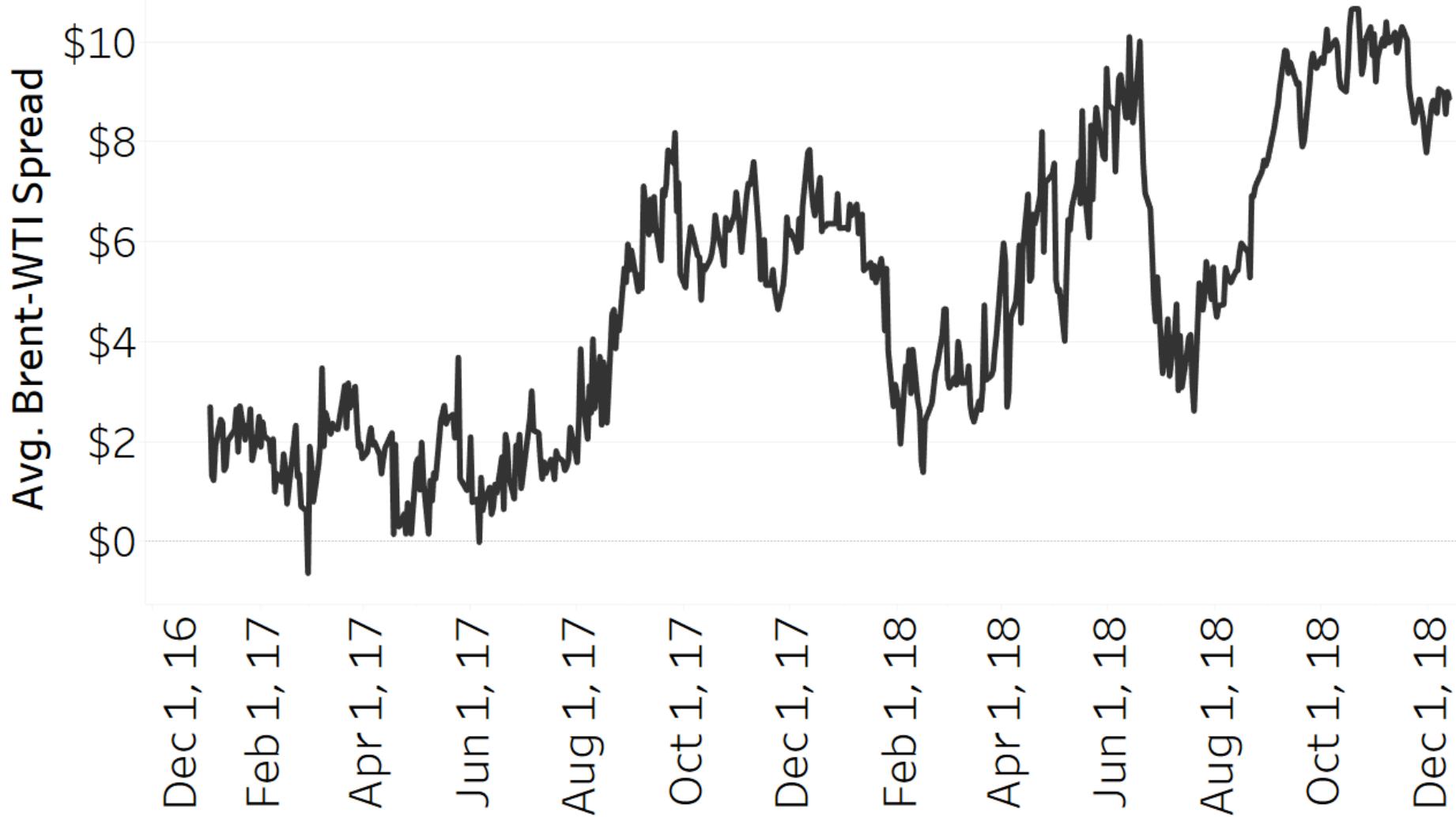
Estimated Williston Basin Oil Transportation



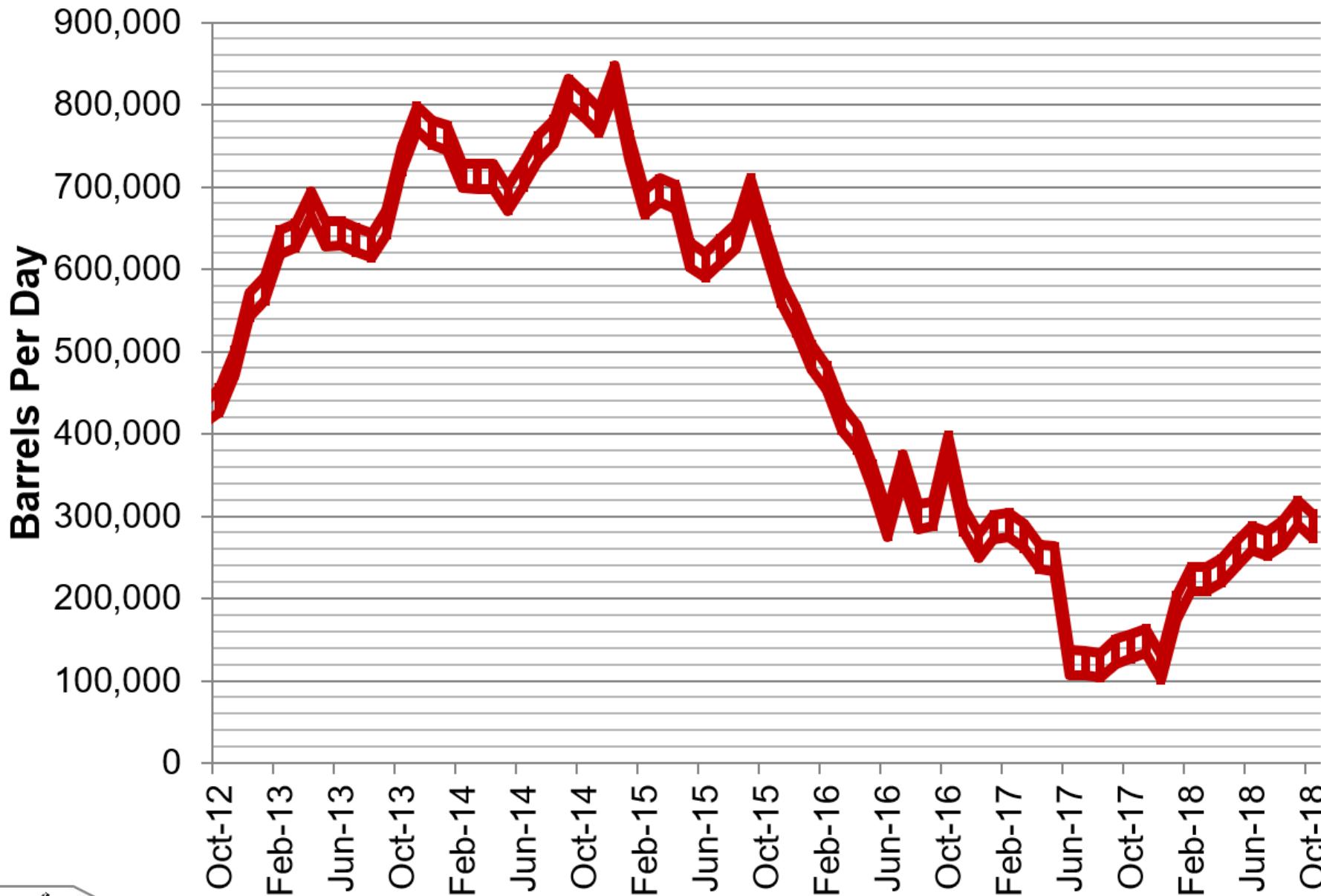
Estimated Williston Basin Oil Transportation



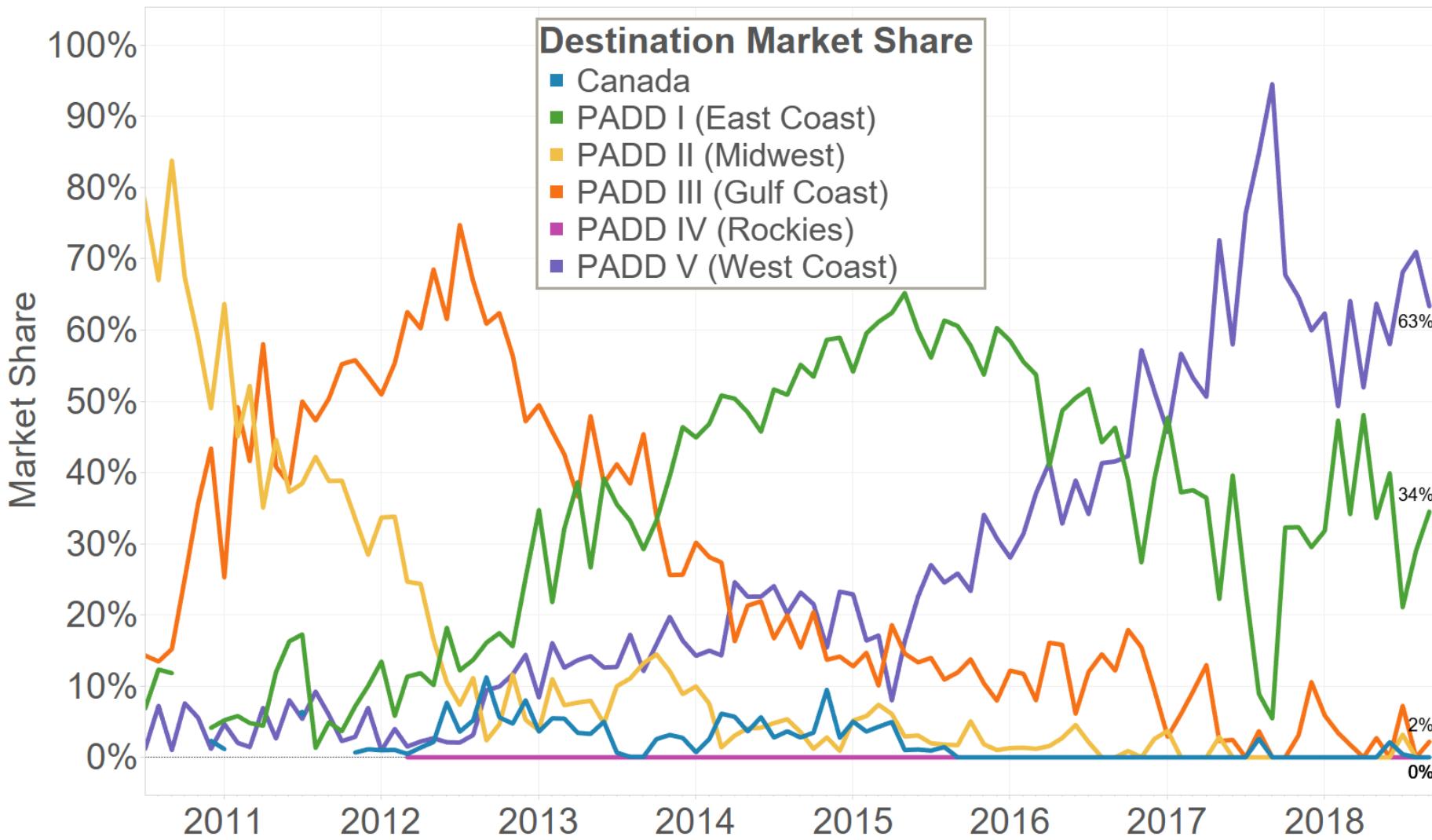
Brent – WTI Price Spread



Estimated ND Rail Export Volumes



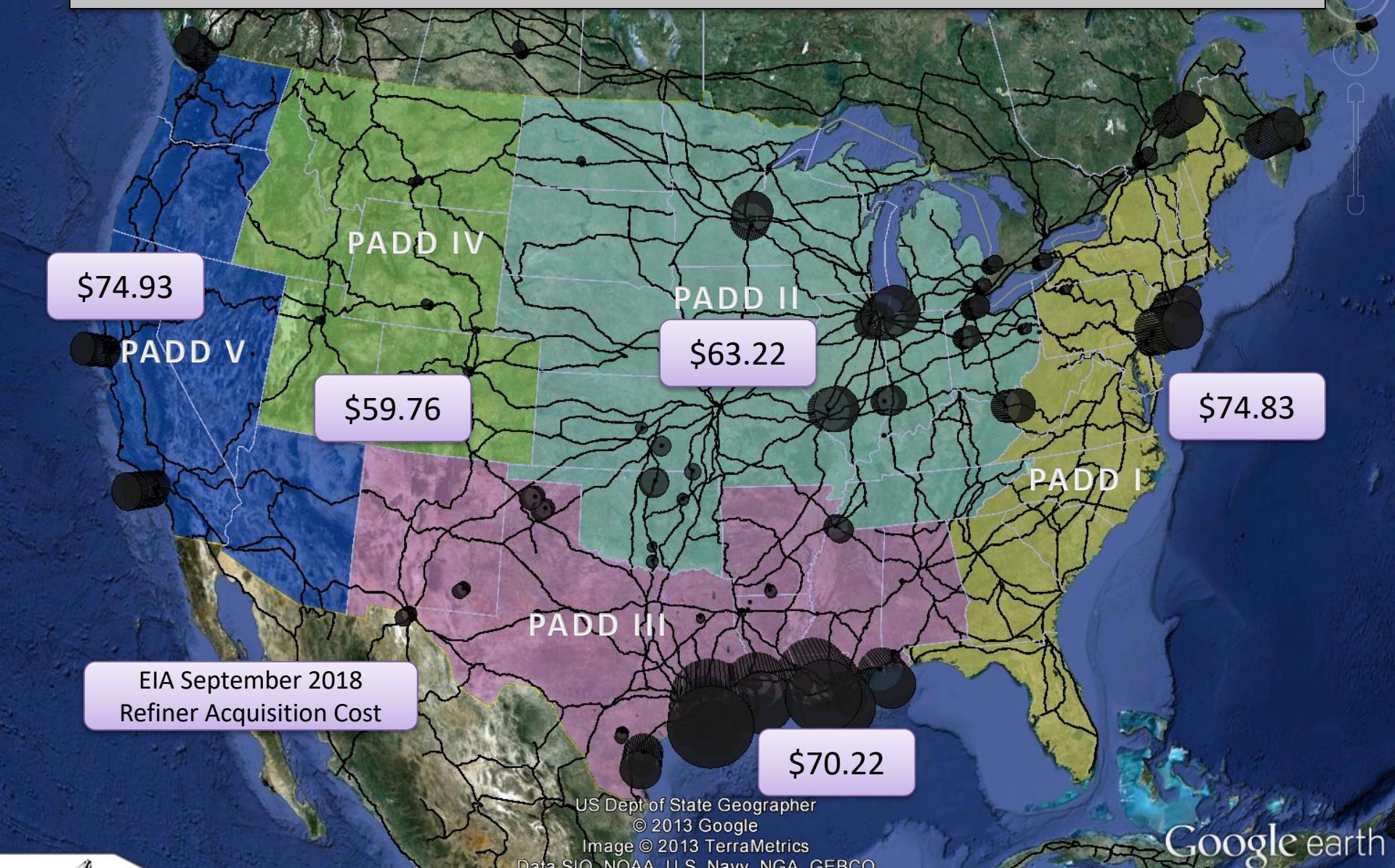
Rail Destinations Market Share (Sep. 2018)



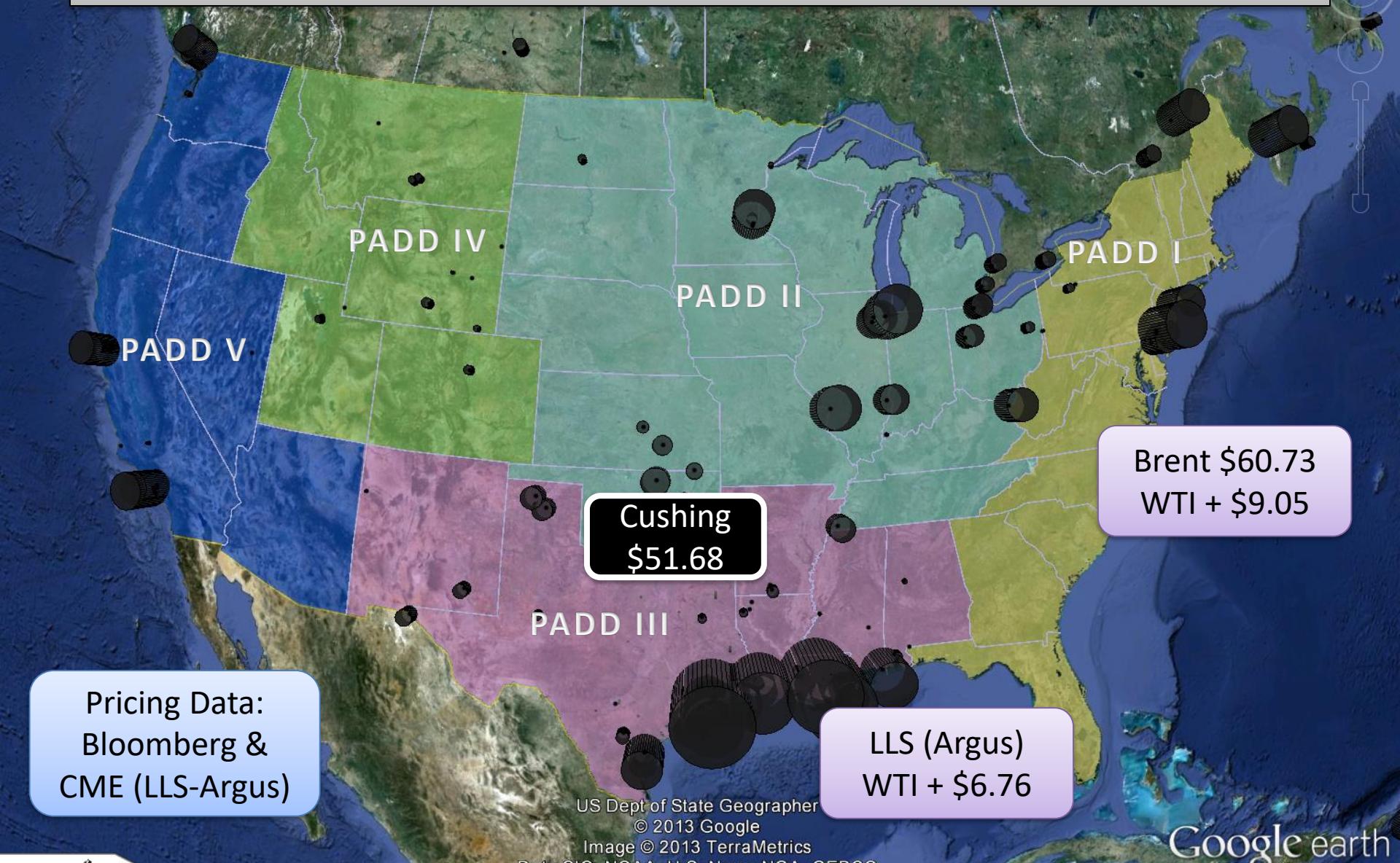
Data for Rail Destination Market Share Provided by the US Energy Information Administration



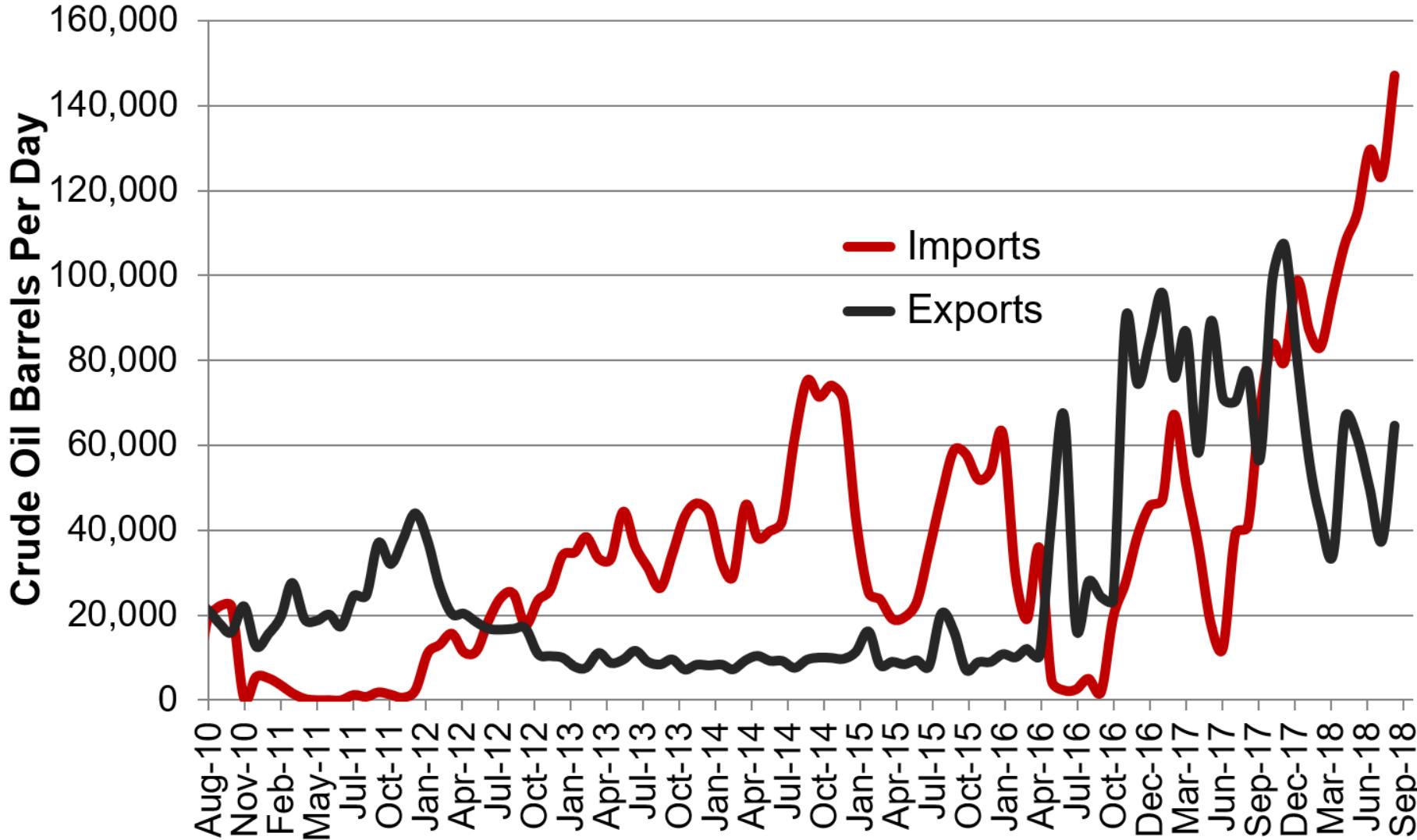
Major Rail Lines and Refineries



Crude Oil Prices – Dec. 14, 2018



Williston Basin Truck/Rail Imports and Exports with Canada

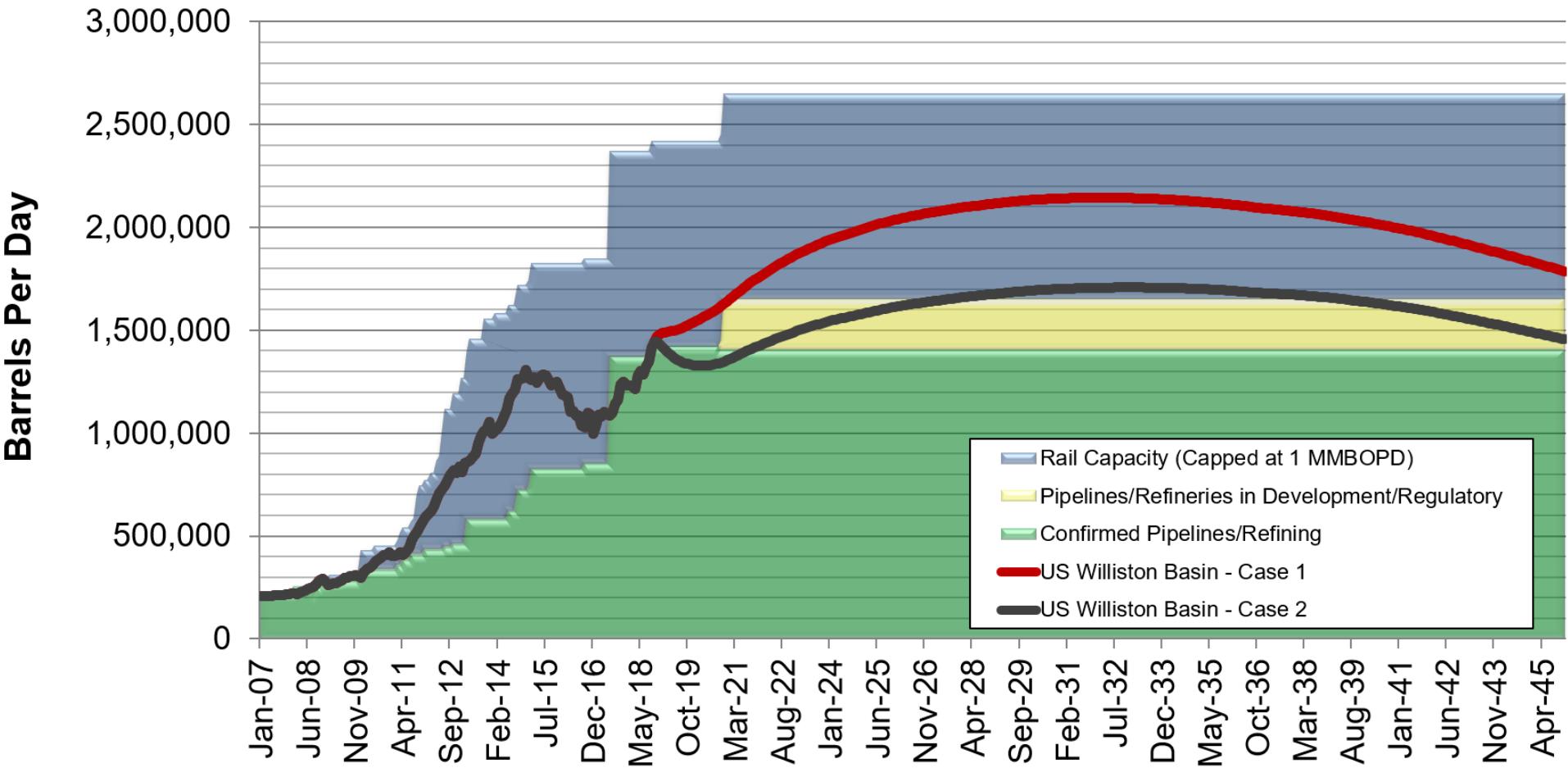


Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.



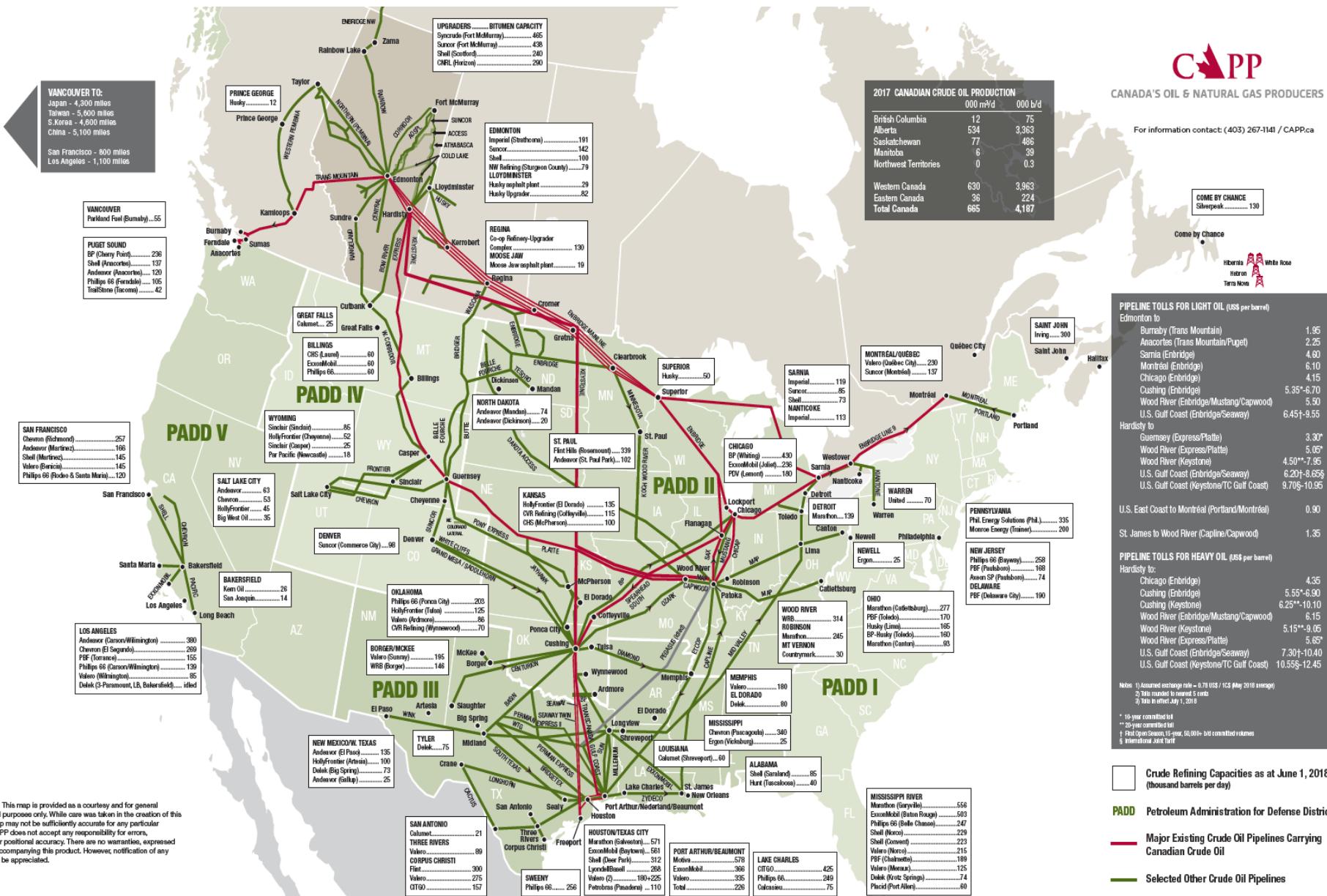
Williston Basin Oil Production & Export Capacity, BOPD

Assumes Current Technology – Enhanced Oil Recovery Not Included



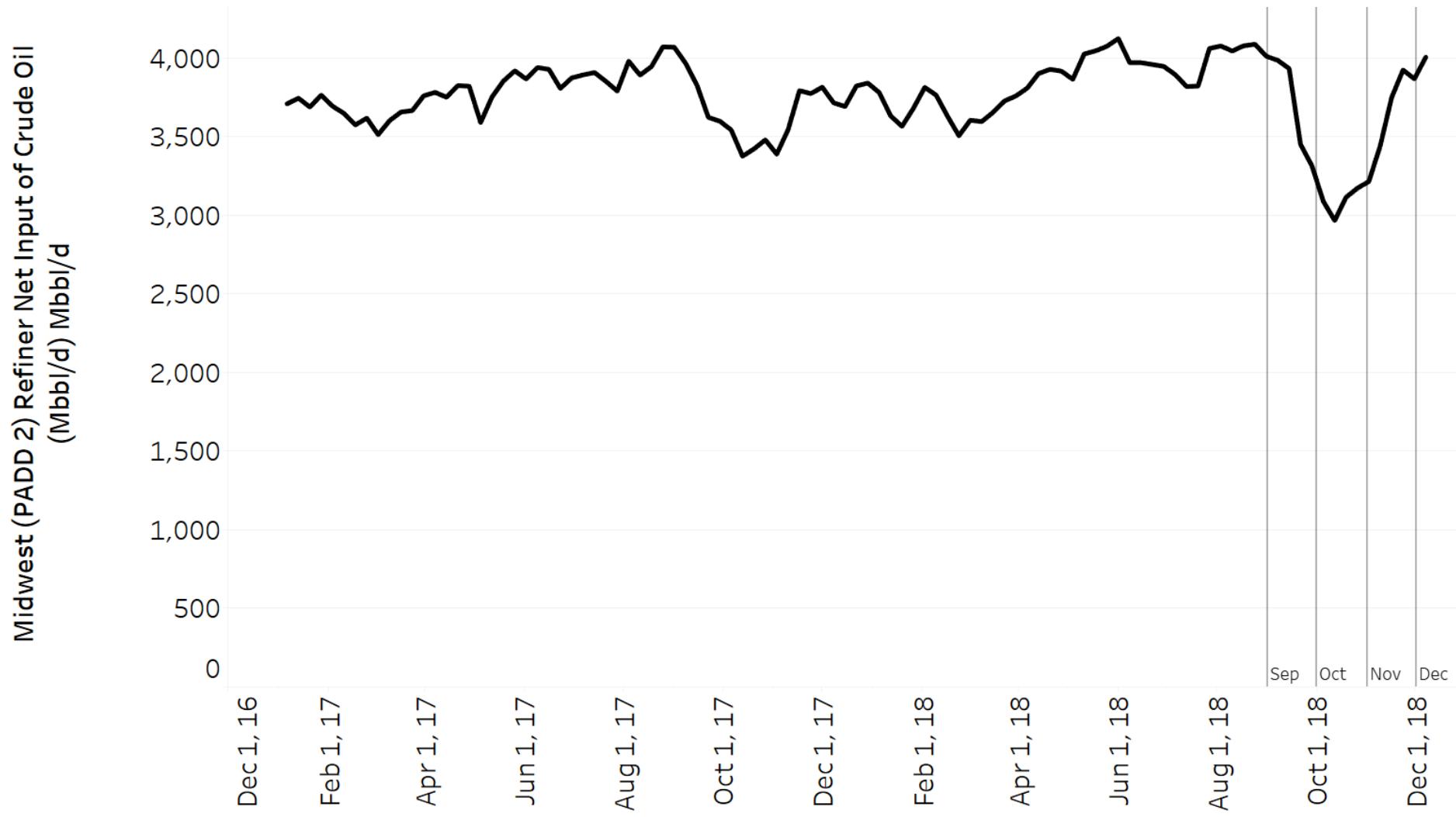
Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.





Disclaimer: This map is provided as a courtesy and for general informational purposes only. While care was taken in the creation of this map, the map may not be sufficiently accurate for any particular purpose. CAPP does not accept any responsibility for errors, omissions, or positional accuracy. There are no warranties, expressed or implied, accompanying this product. However, notification of any errors would be appreciated.

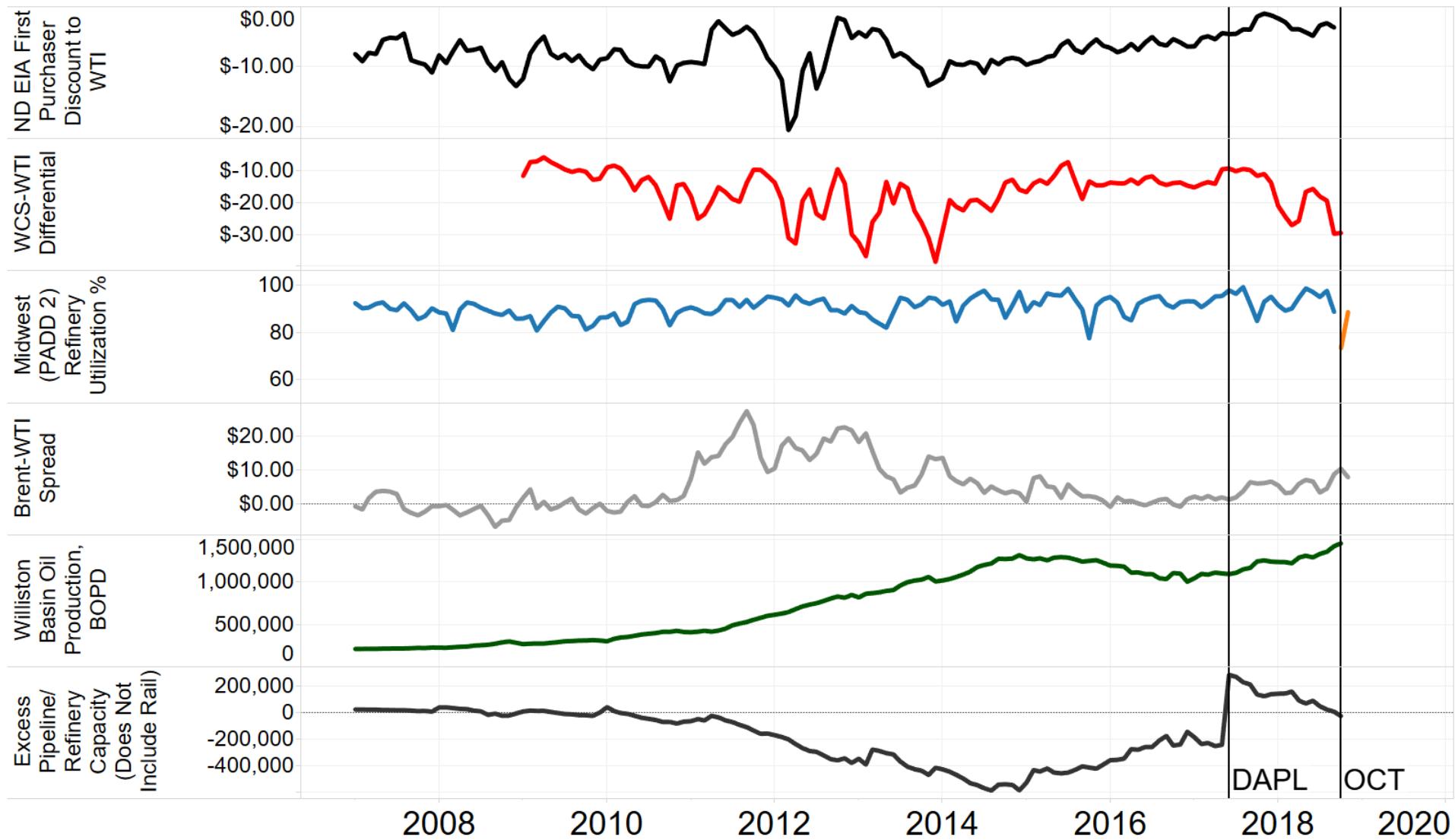
PADD II Refinery Inputs



Data Source: EIA



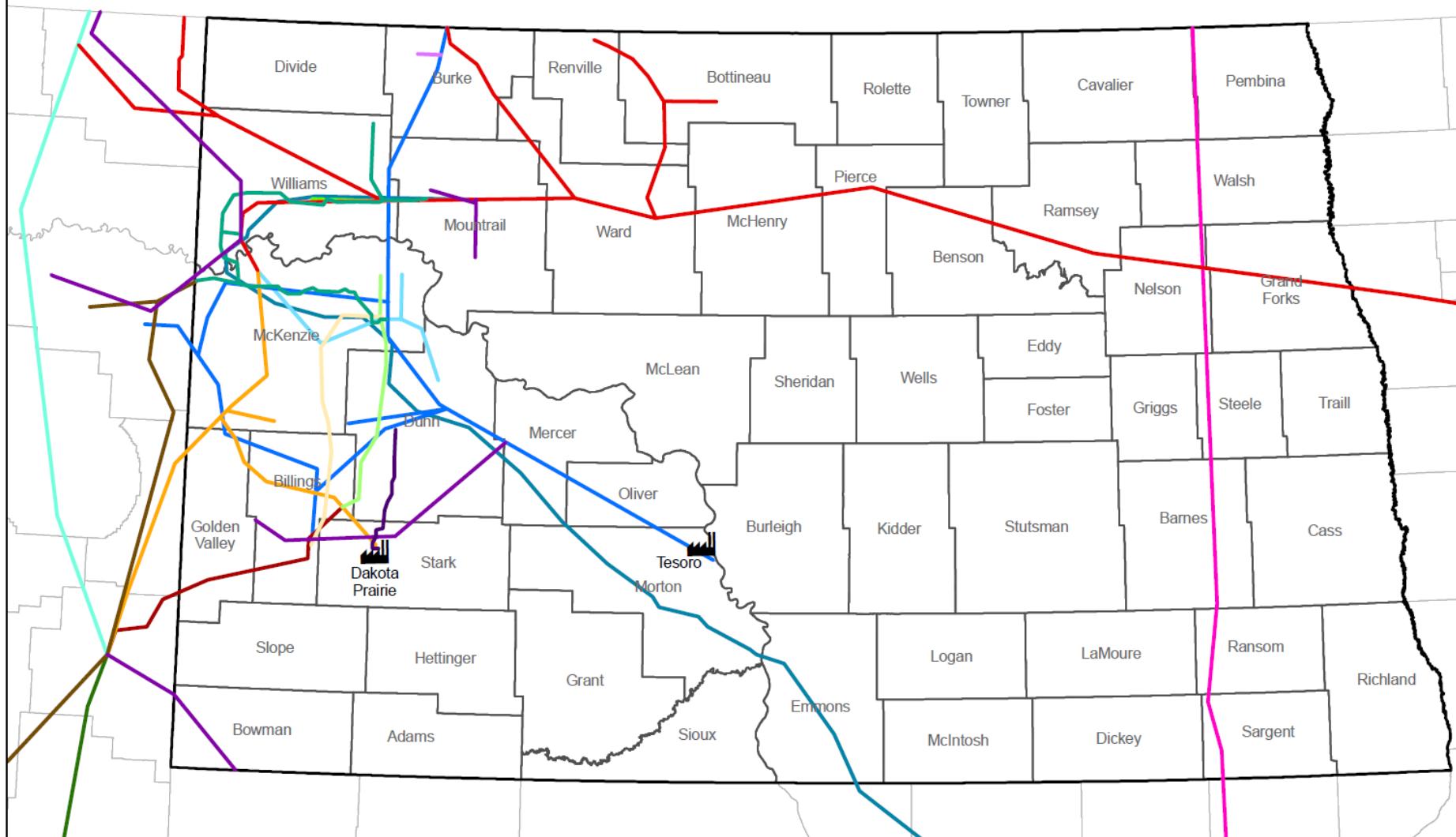
North Dakota Oil Pricing



Data Source: NDPA & EIA

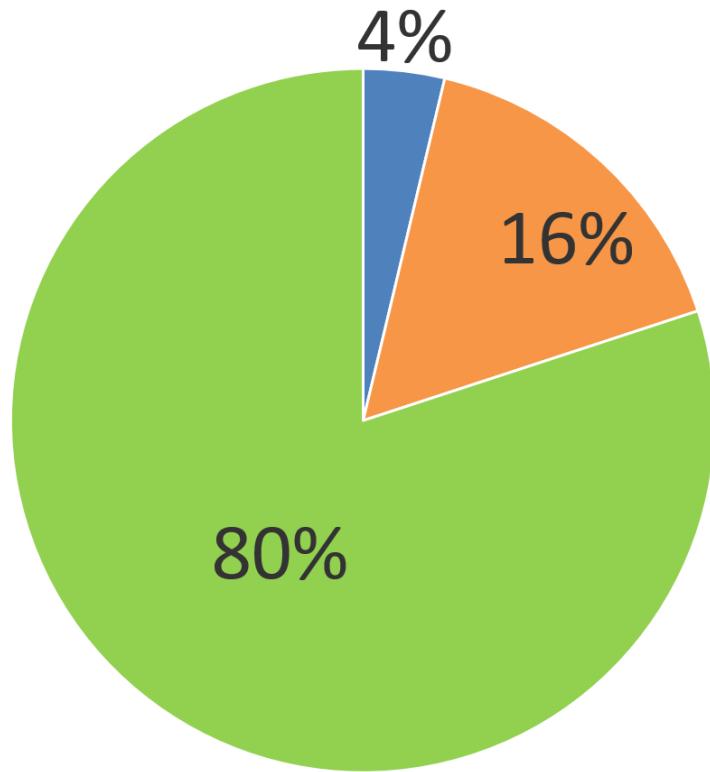


North Dakota Crude Oil Pipelines



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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

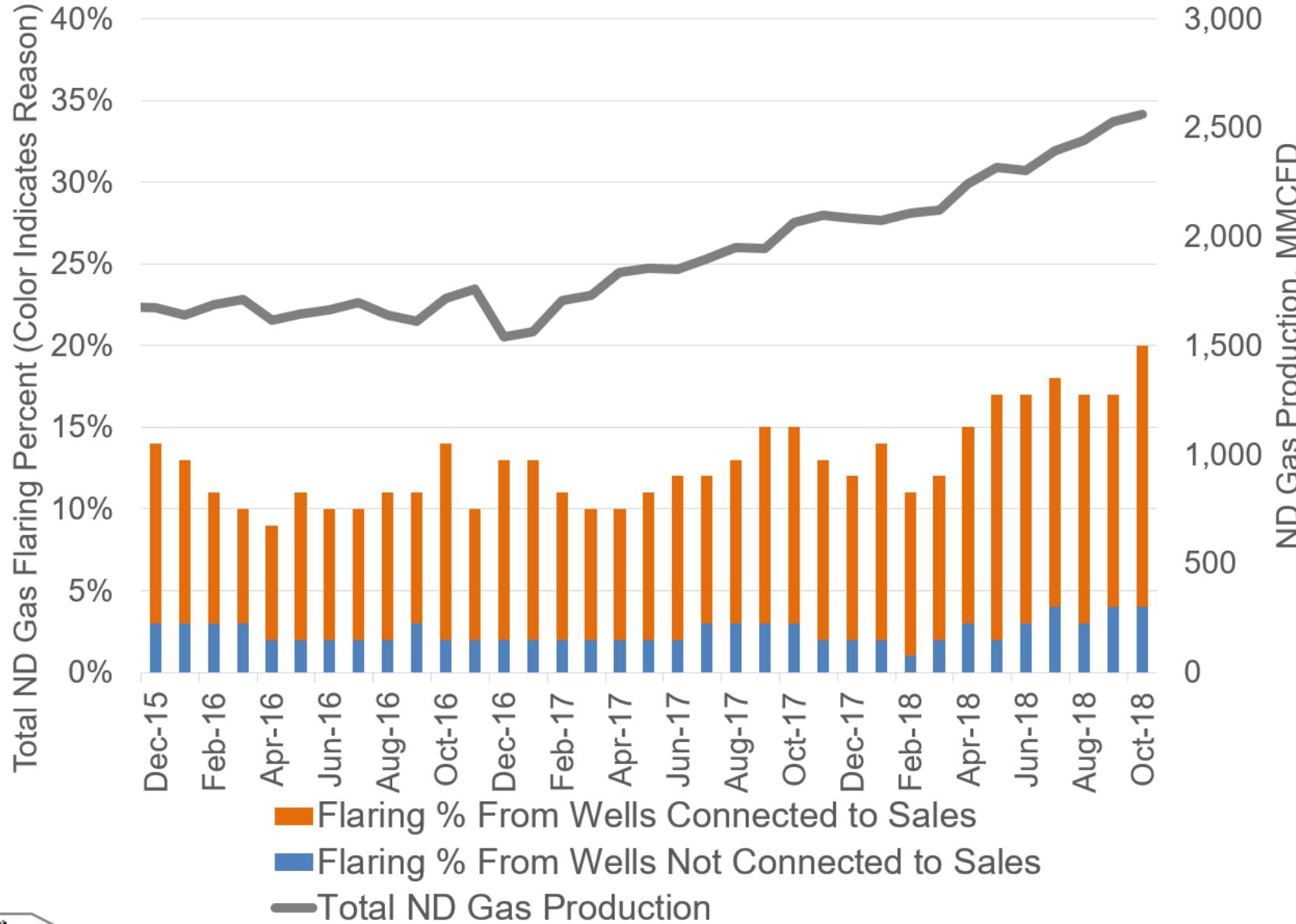
Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

Statewide

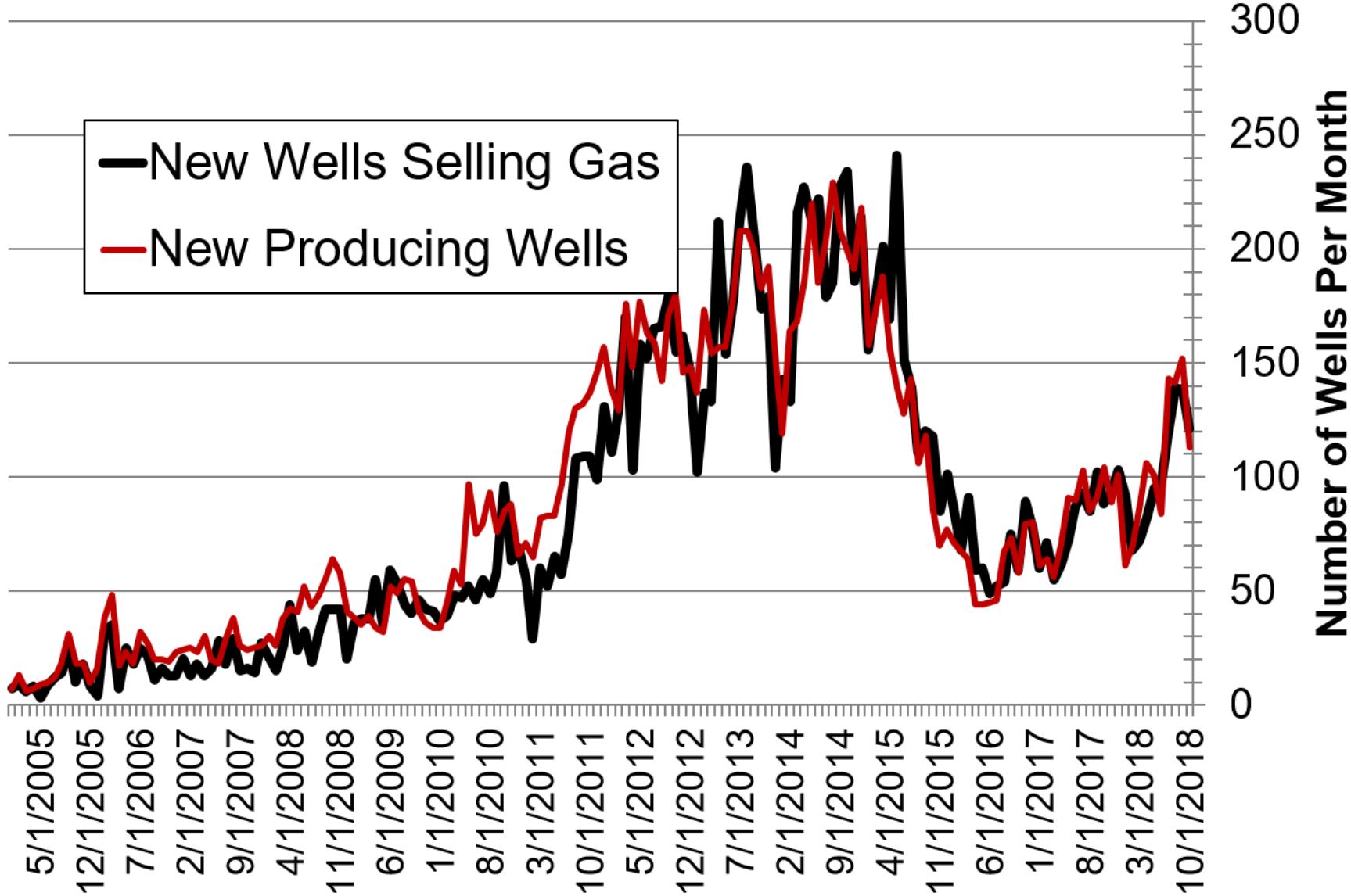
October 2018 Data – Non-Confidential Wells



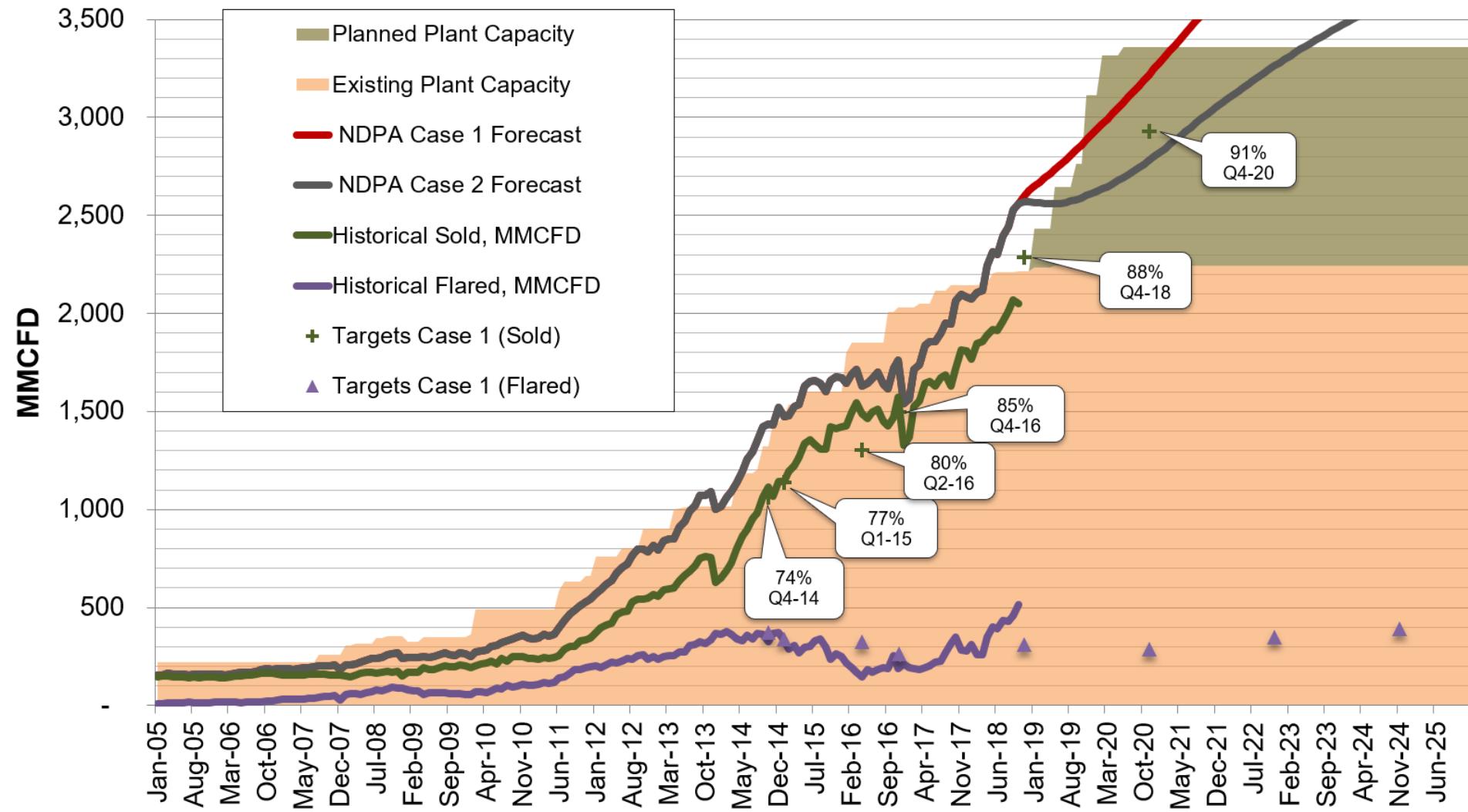
Solving the Flaring Challenge



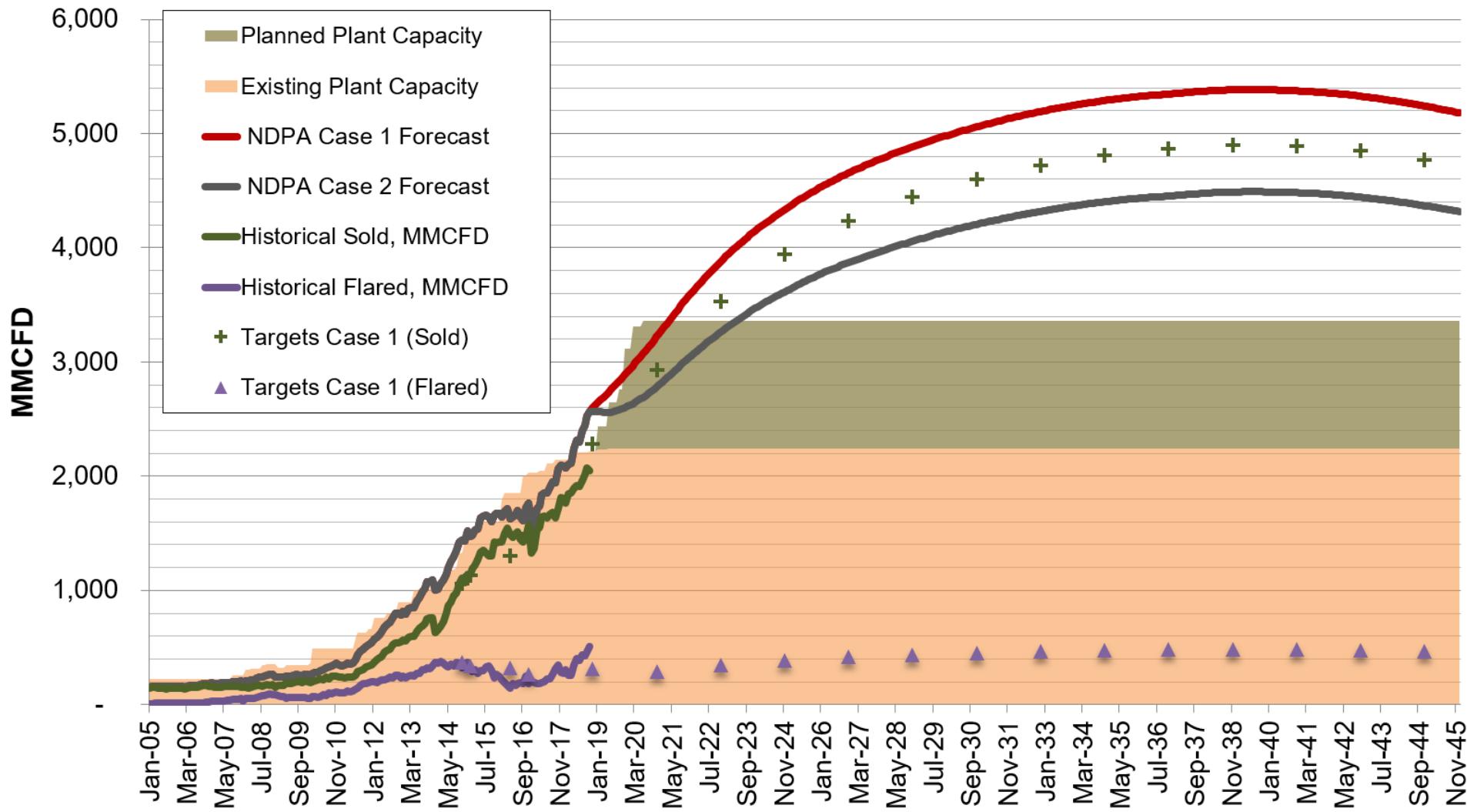
Solving the Flaring Challenge



Solving the Flaring Challenge



Solving the Flaring Challenge



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



JJ Kringstad - North Dakota Pipeline Authority

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www.northdakotapipelines.com

