



January 2019 Monthly Update

North Dakota Pipeline Authority

Justin J. Kringstad

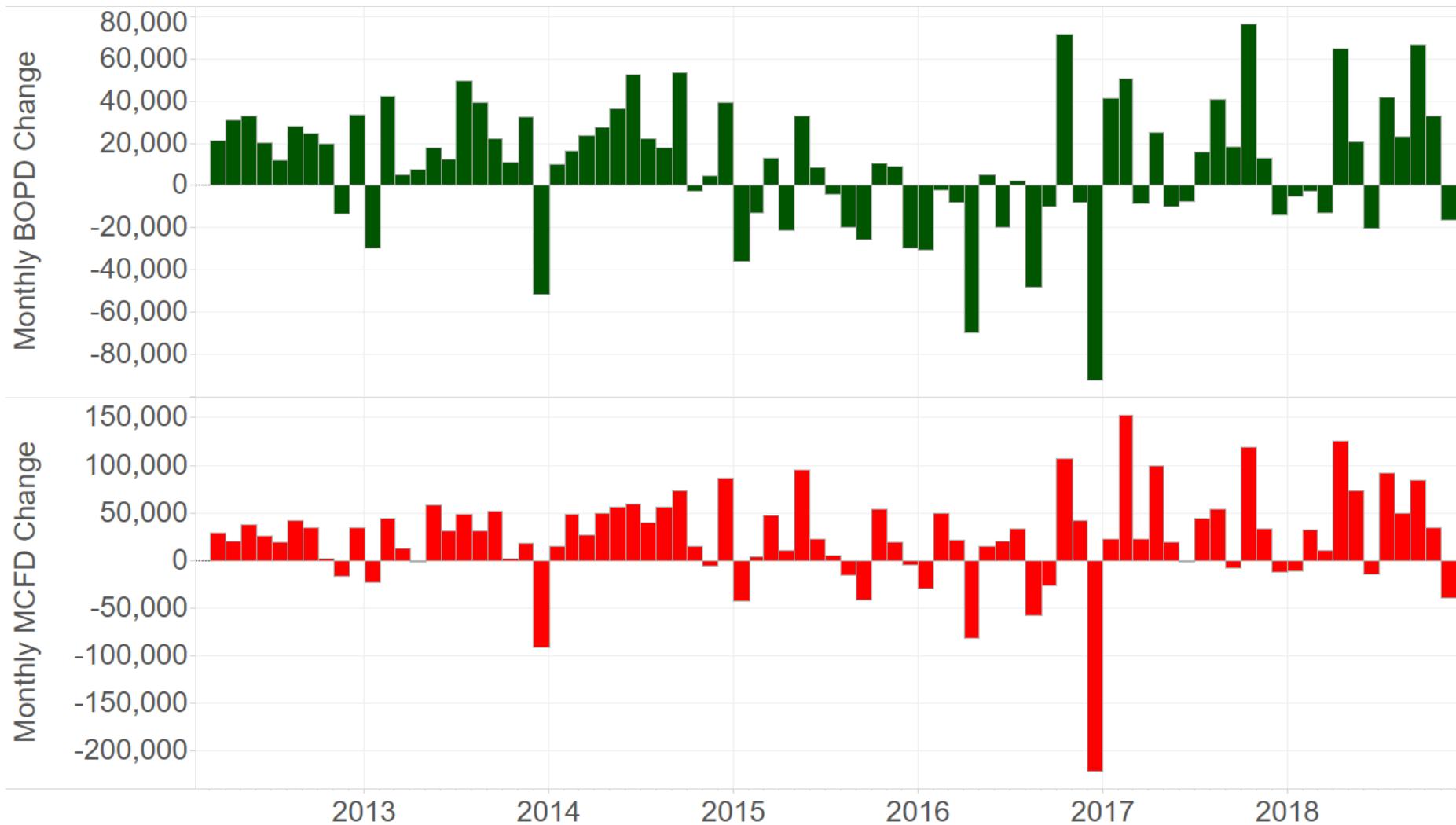
January 15, 2019

US Williston Basin Oil Production - 2018

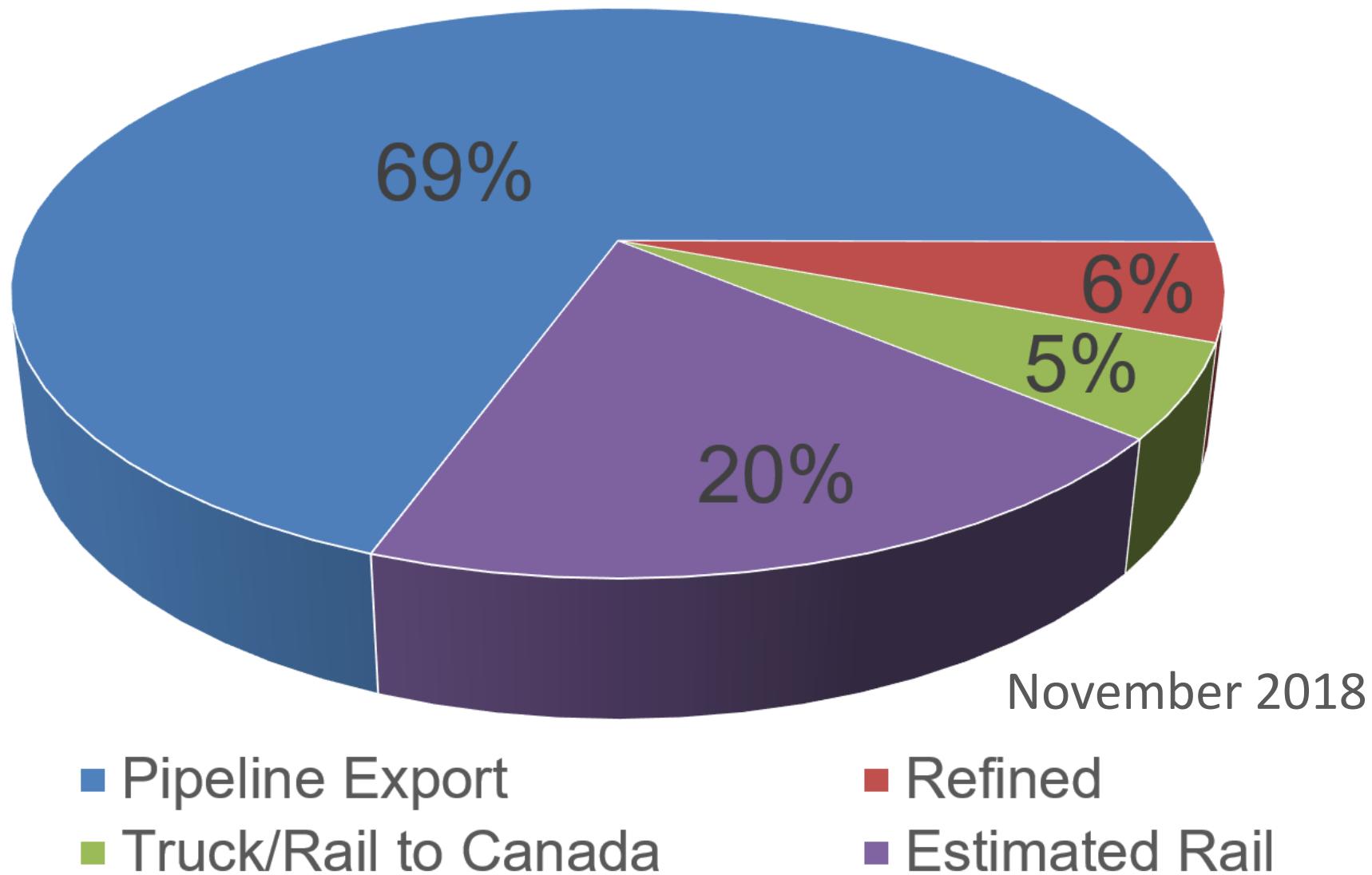
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,177,637	50,110	3,555	1,231,301
February	1,175,080	50,861	3,628	1,229,568
March	1,162,129	49,830	3,502	1,215,461
April	1,226,921	52,426	3,515	1,282,862
May	1,247,756	53,717	3,471	1,304,944
June	1,227,440	53,987	3,443	1,284,870
July	1,269,315	53,187	3,377	1,325,879
August	1,292,513	55,627	3,471	1,351,611
September	1,359,283	54,634	3,475	1,417,392
October	1,392,369	53,406	3,375	1,449,151
November	1,375,803			
December				



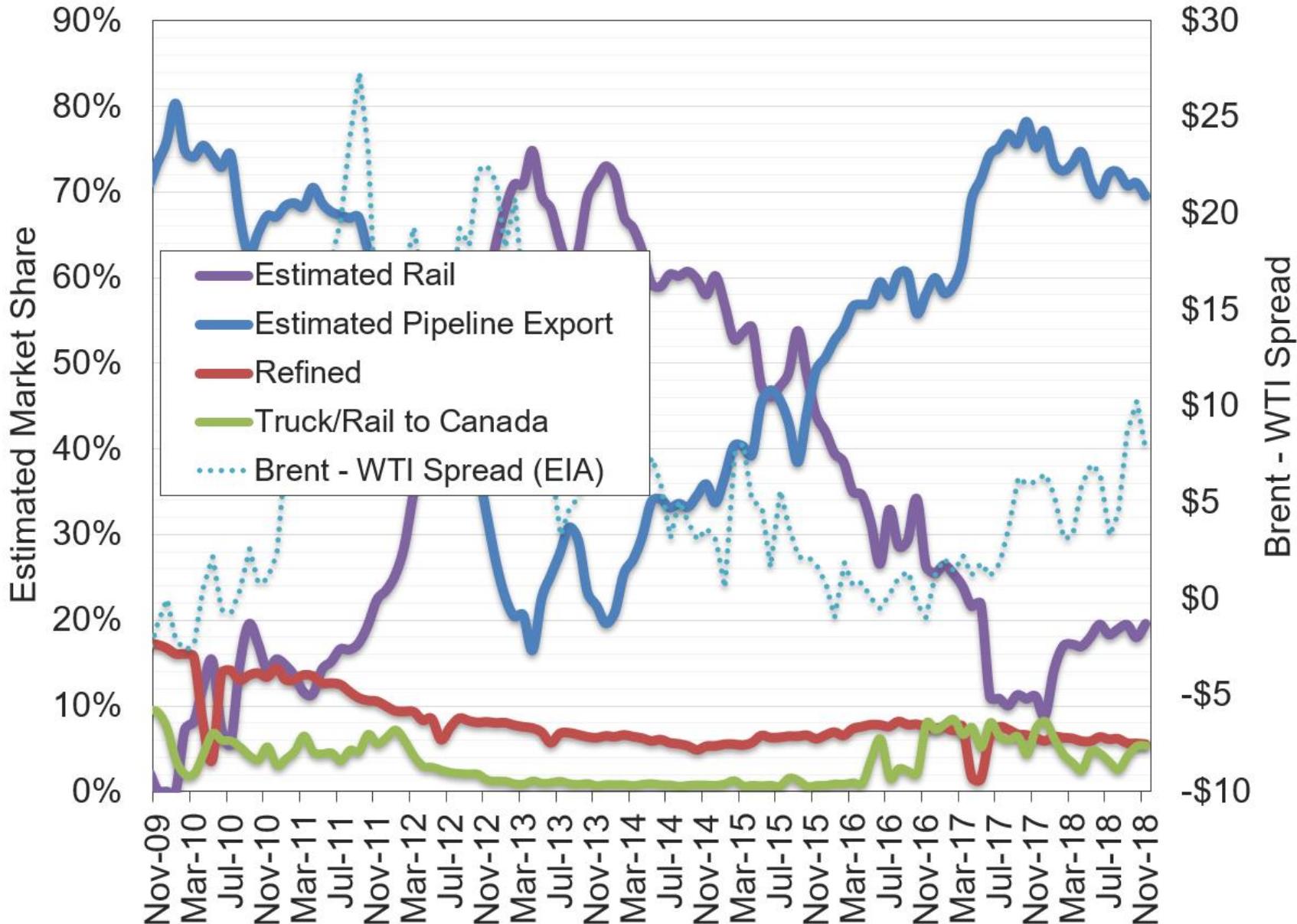
Monthly Production Change



Estimated Williston Basin Oil Transportation



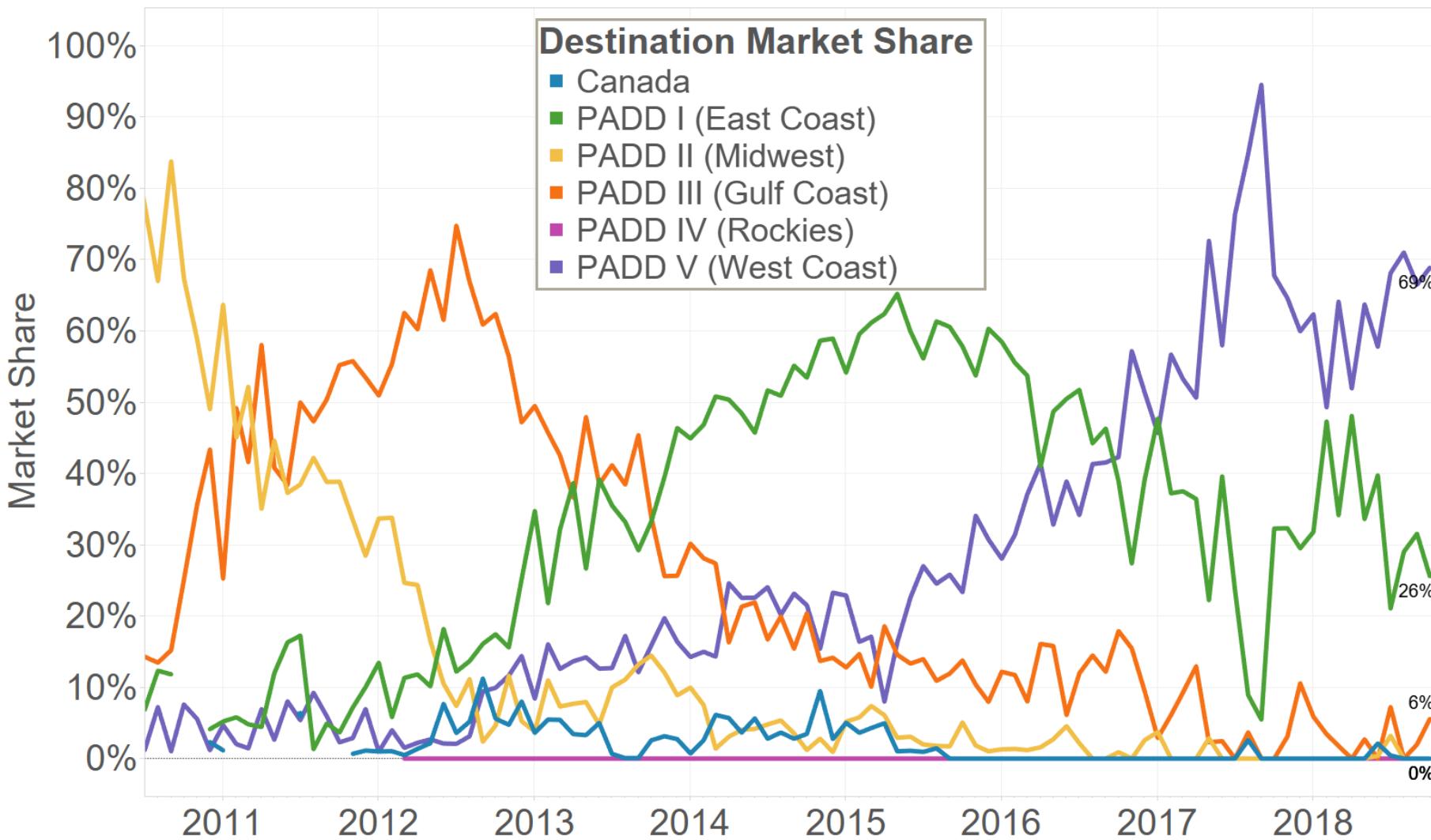
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



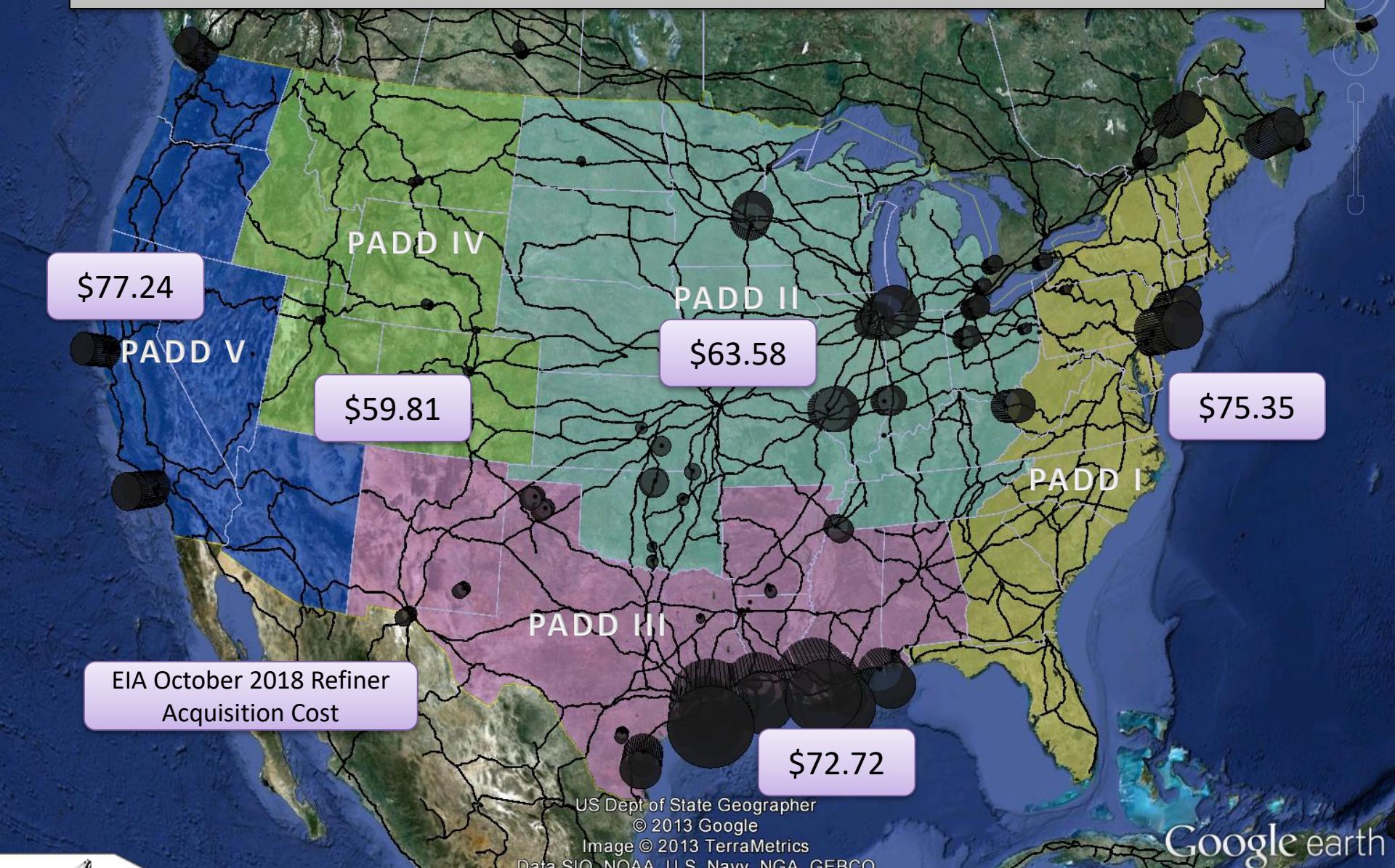
Rail Destinations Market Share (Oct. 2018)



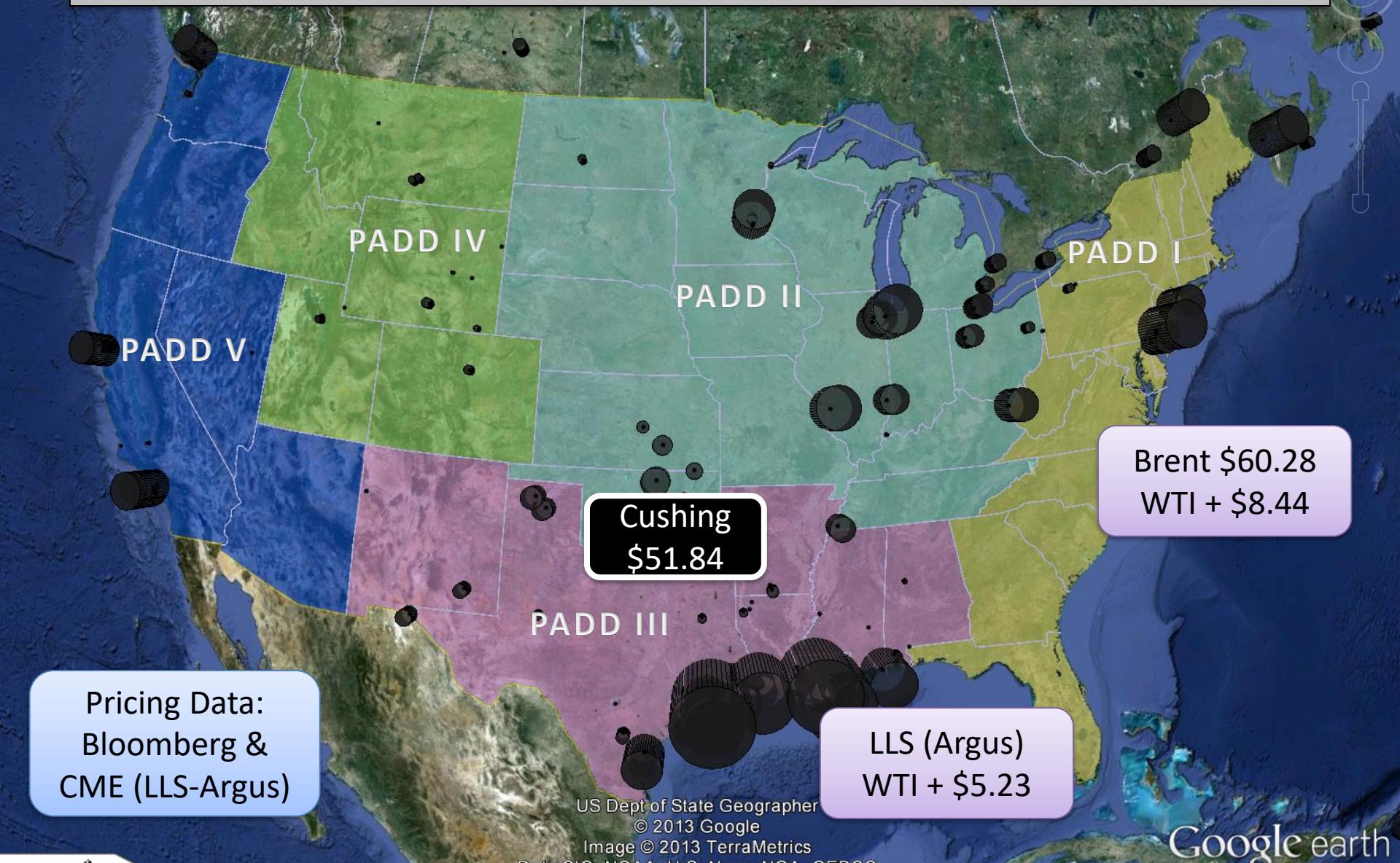
Data for Rail Destination Market Share Provided by the US Energy Information Administration



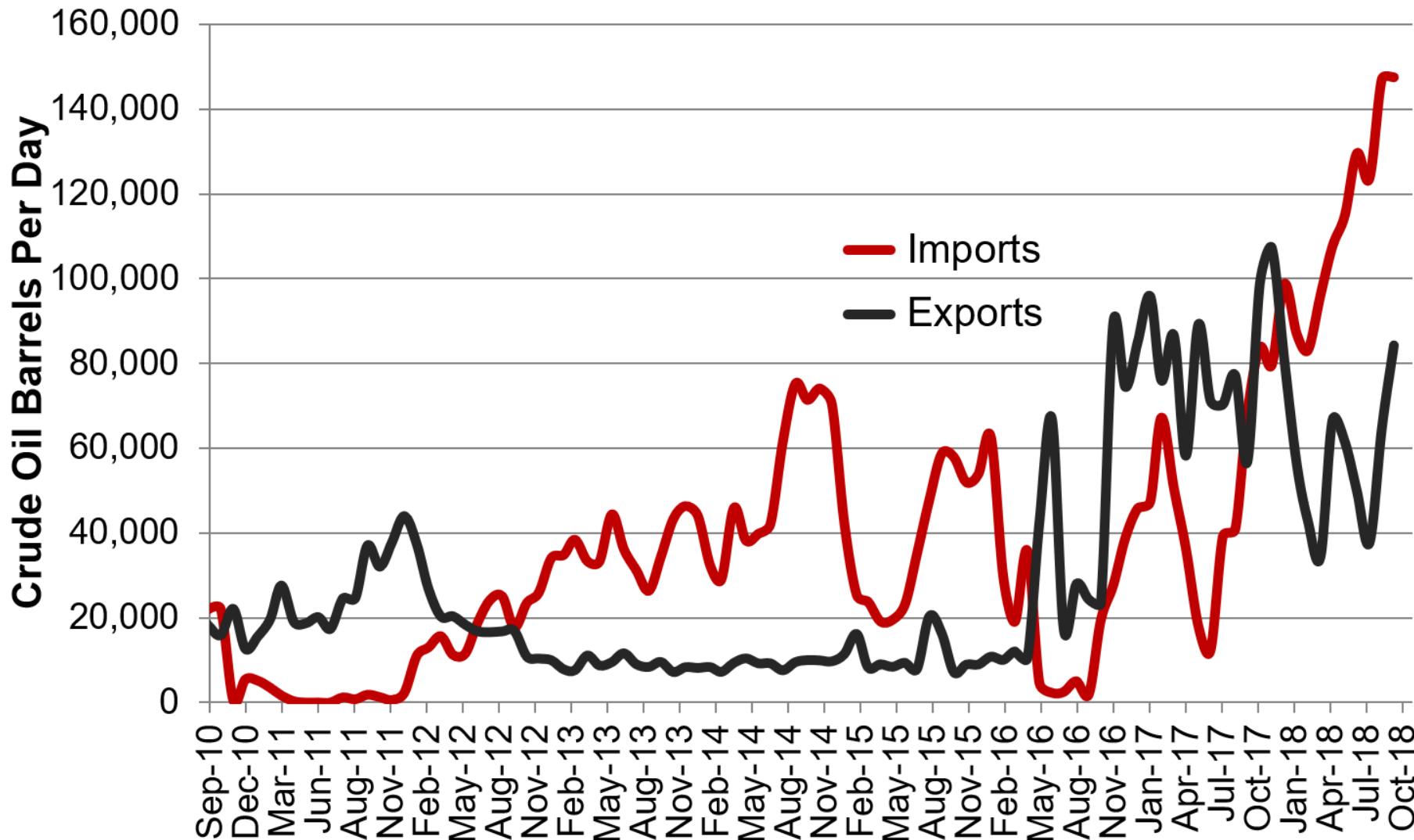
Major Rail Lines and Refineries

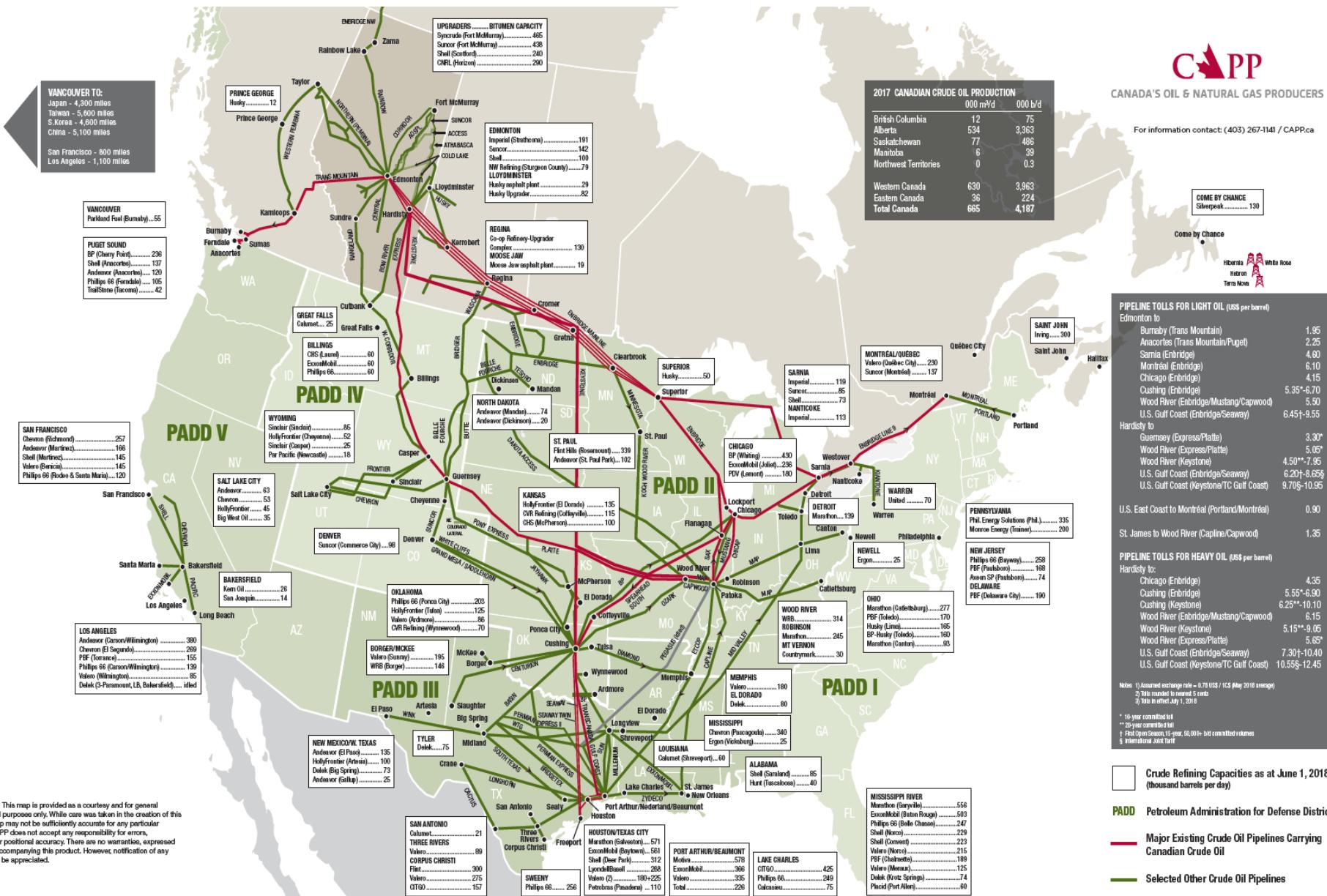


Crude Oil Prices – Jan. 15, 2019



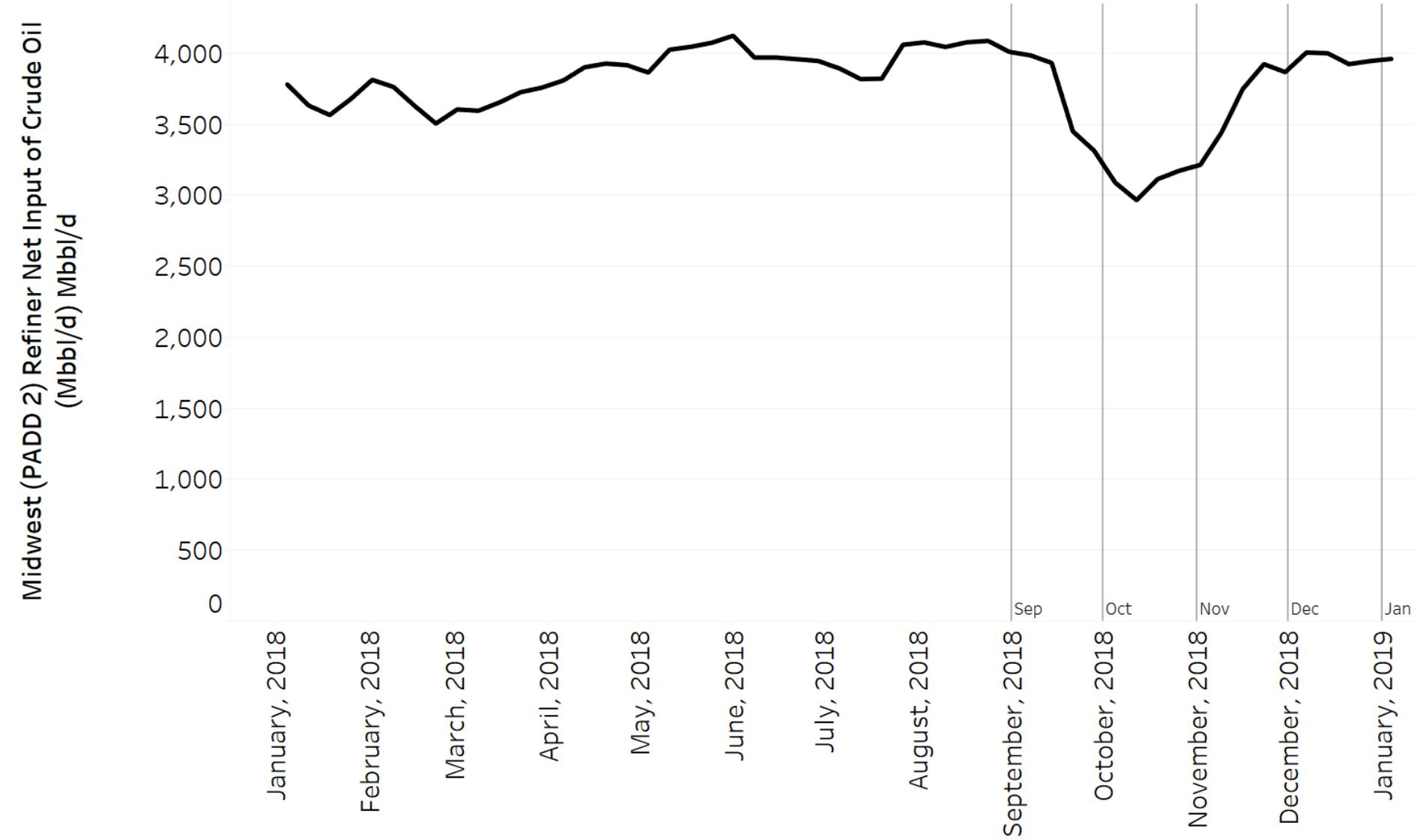
Williston Basin Truck/Rail Imports and Exports with Canada





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

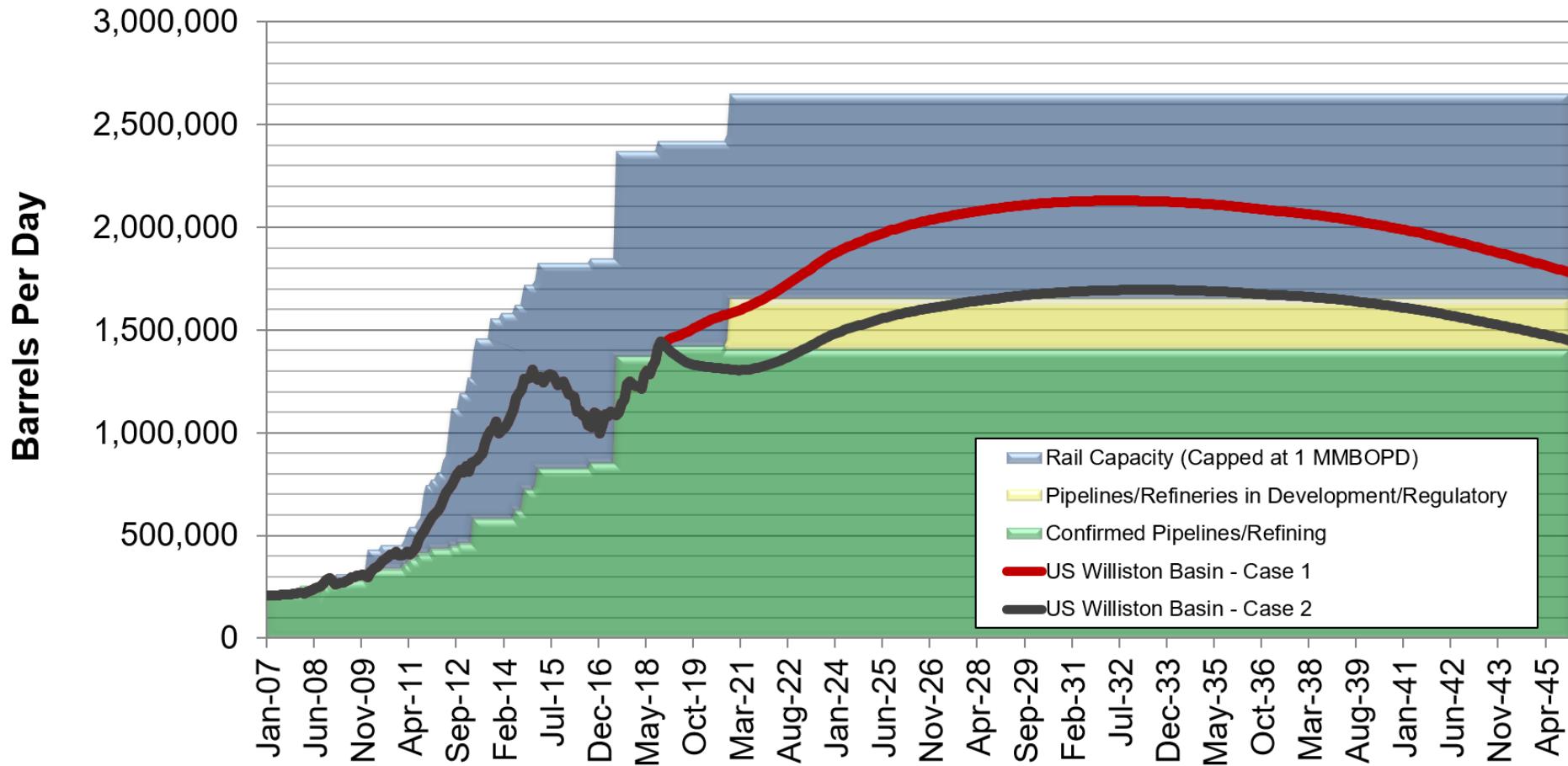


Data Source: EIA



Williston Basin Oil Production & Export Capacity, BOPD

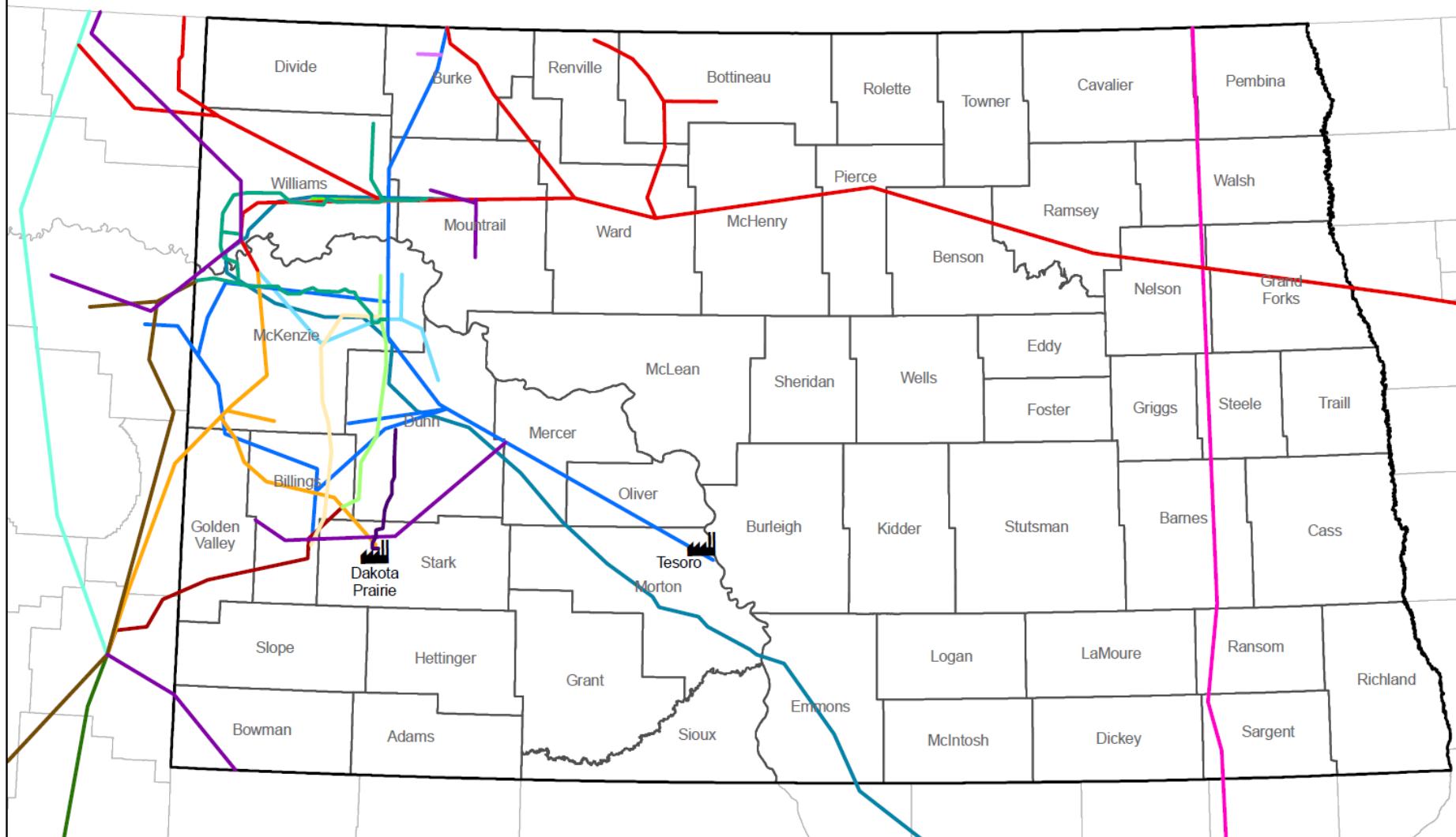
Assumes Current Technology – Enhanced Oil Recovery Not Included



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



North Dakota Crude Oil Pipelines

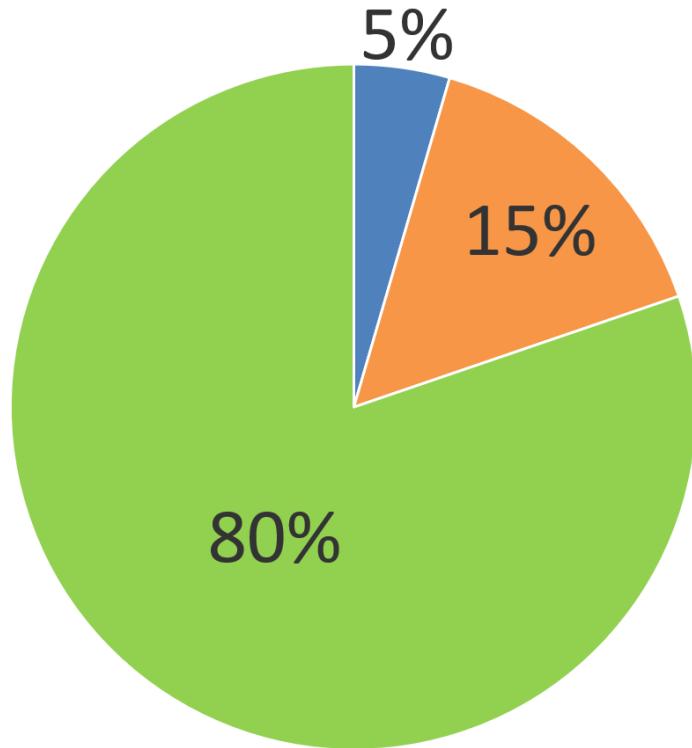


The legend identifies the following entities and pipelines:

- Refinery (represented by a black factory icon)
- Basin Transload
- Butte
- Double H
- Hiland
- Plains
- Bakken Oil Express
- Belle Fourche
- Crestwood
- Enbridge
- Keystone Pipeline
- Targa
- BakkenLink
- Bridger
- Dakota Access
- Four Bears
- Little Missouri
- Tesoro

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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

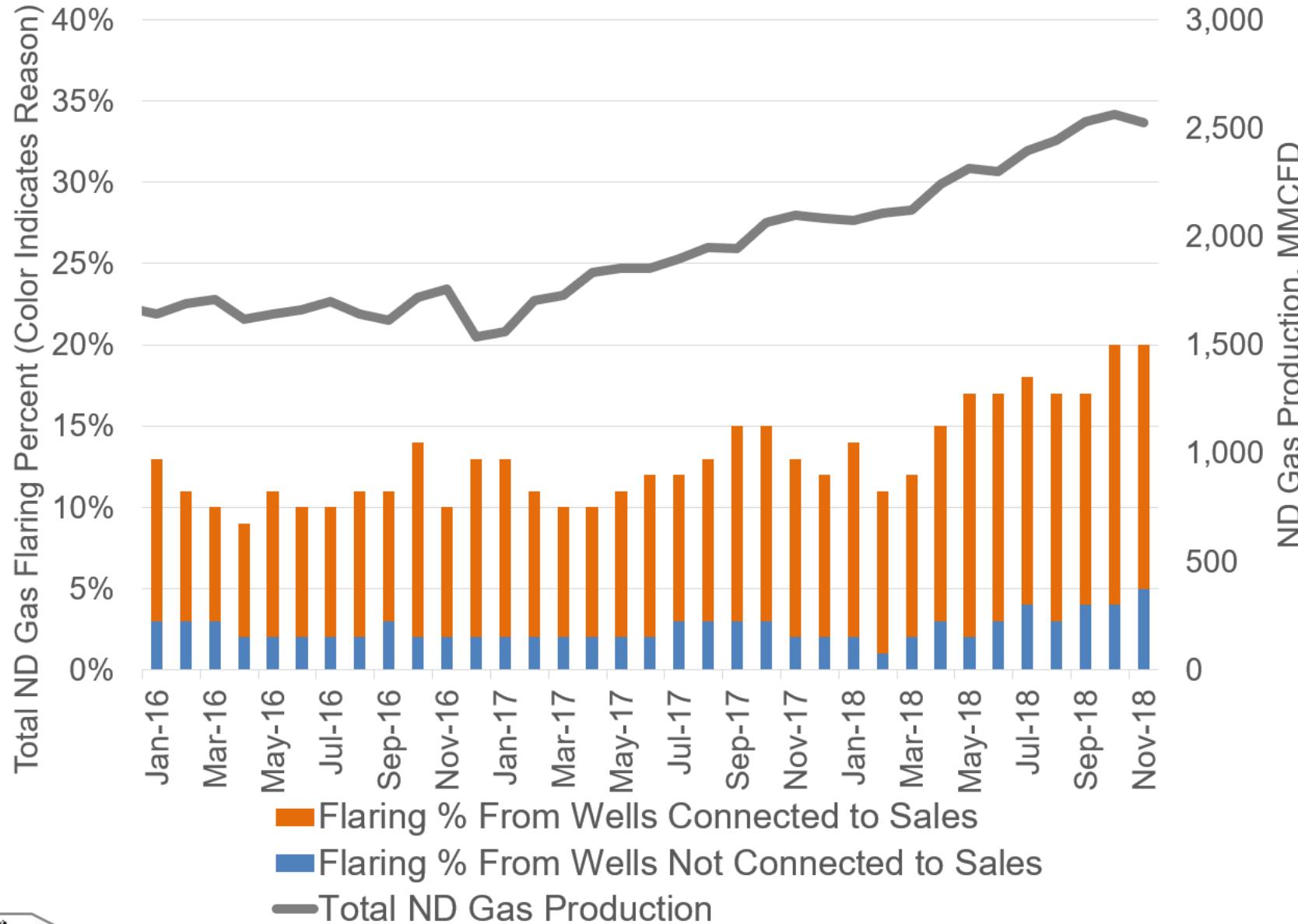
Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

Statewide

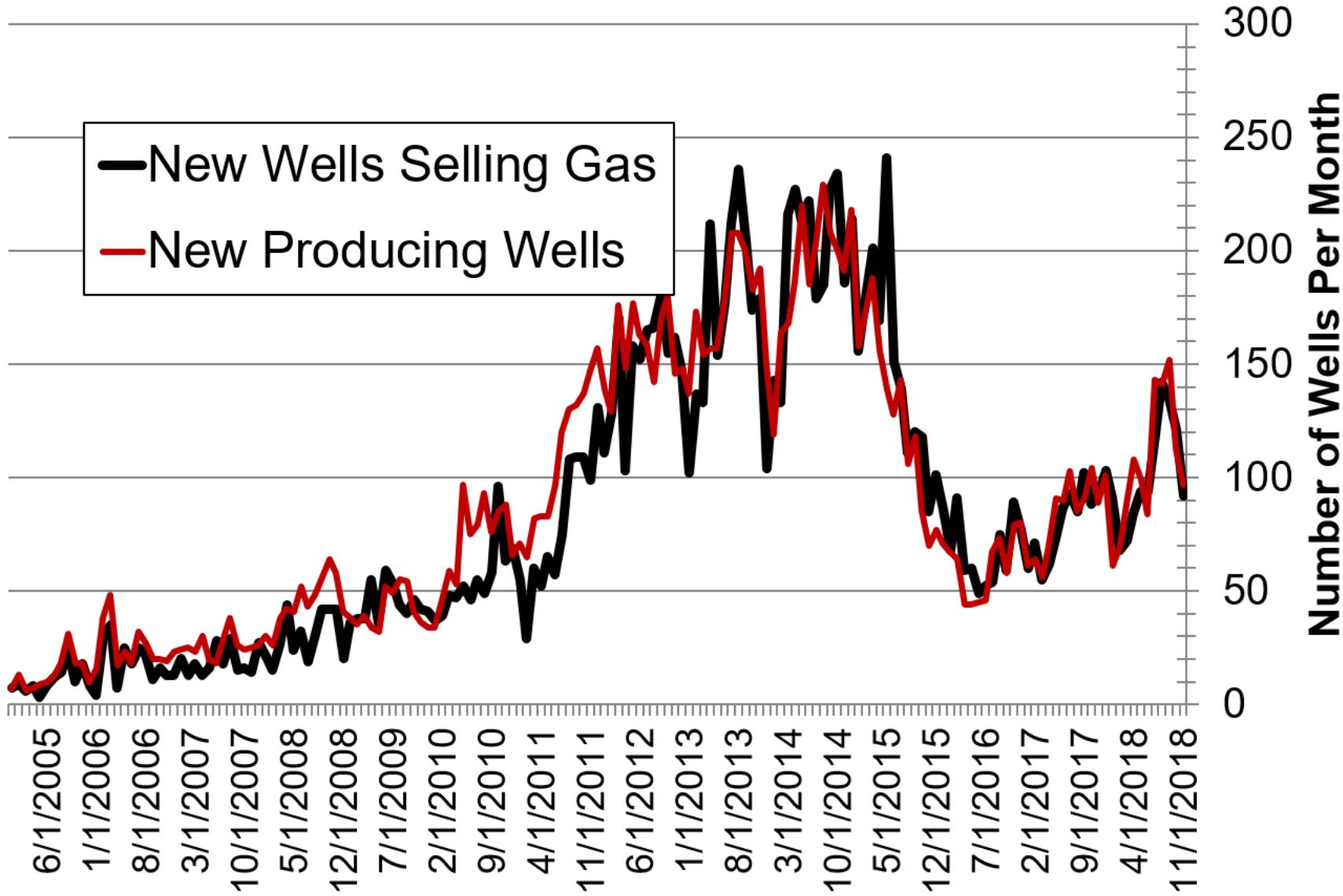
November 2018 Data – Non-Confidential Wells



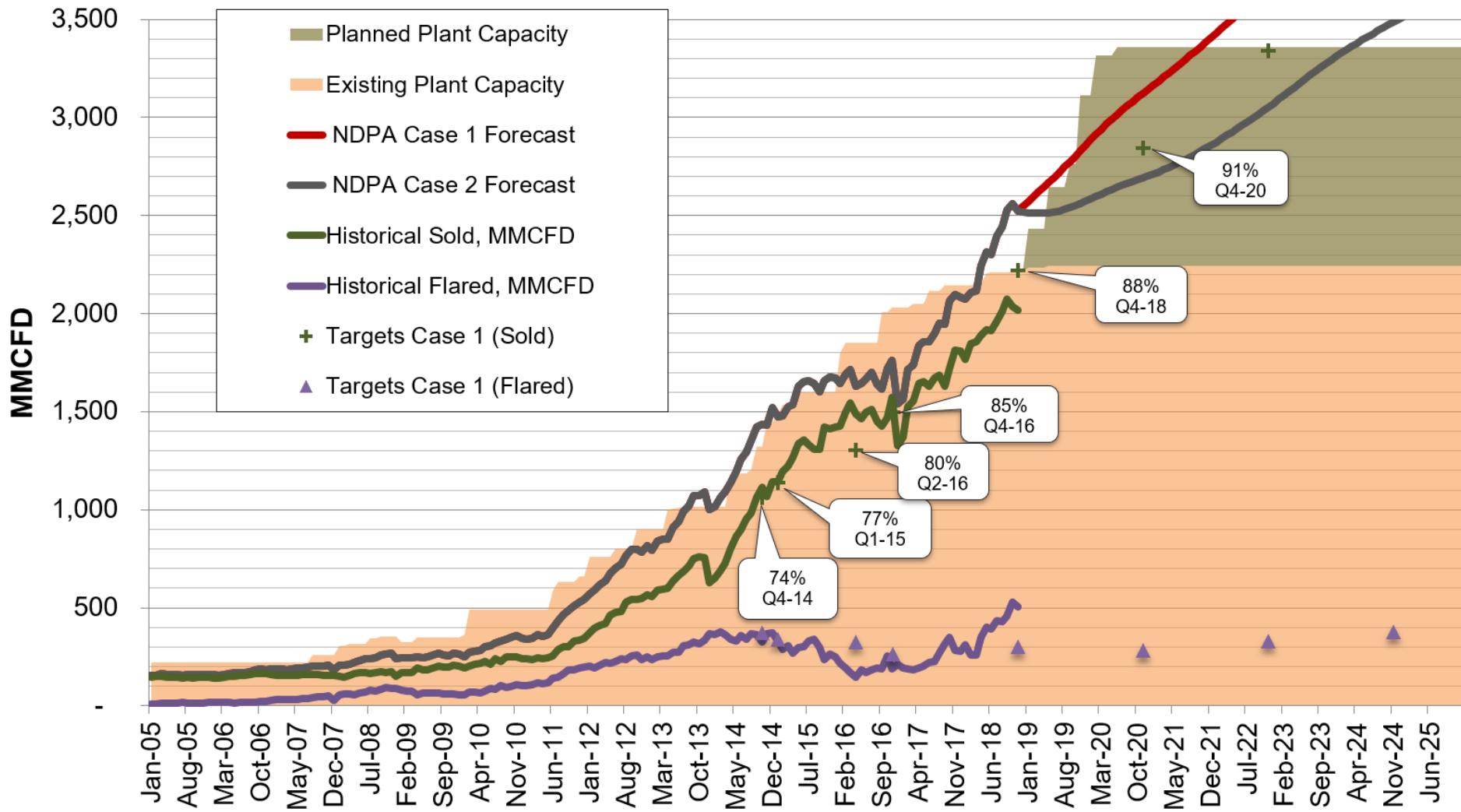
Solving the Flaring Challenge



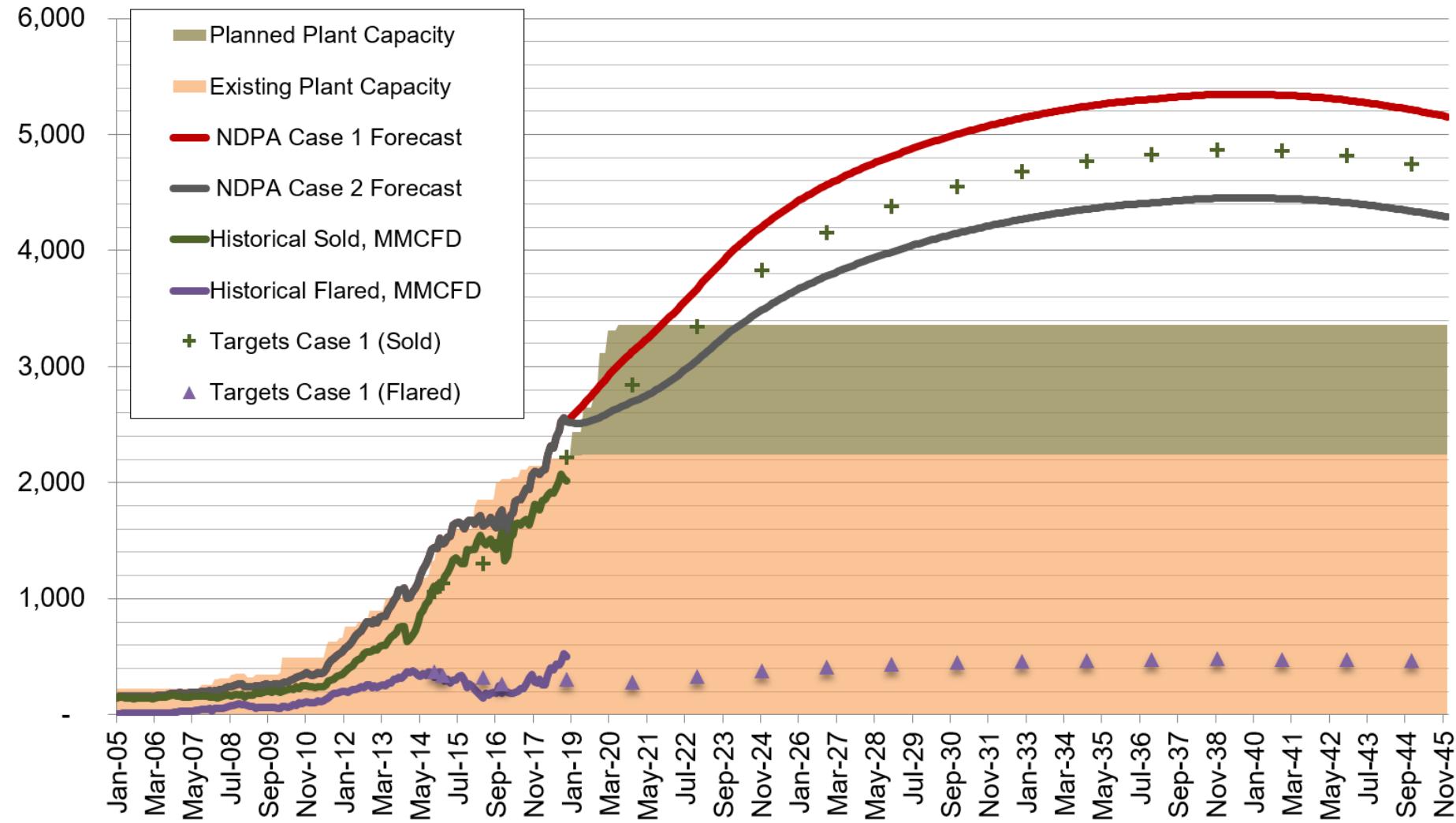
Solving the Flaring Challenge



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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