



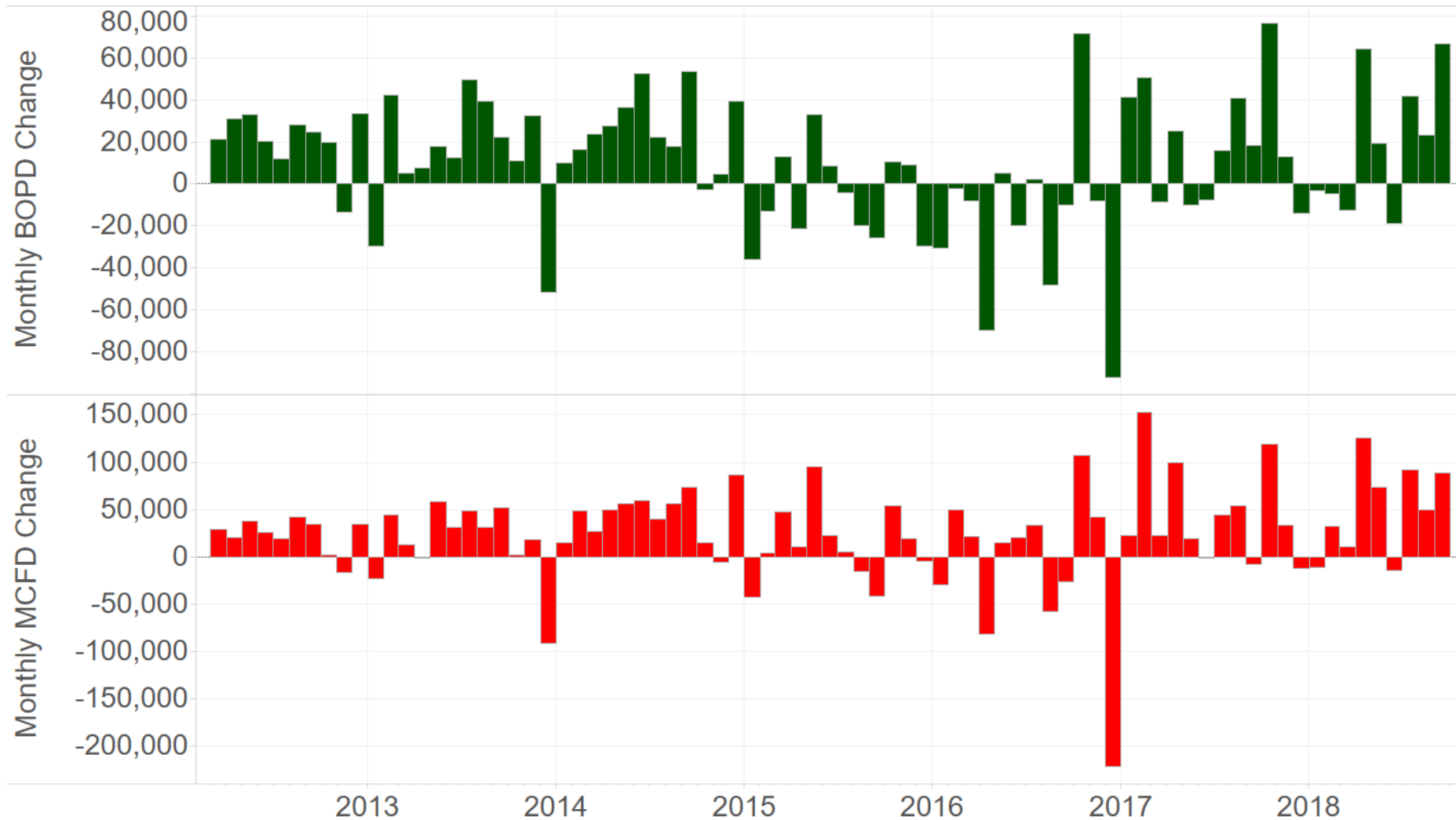
November 2018 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
November 16, 2018

US Williston Basin Oil Production - 2018

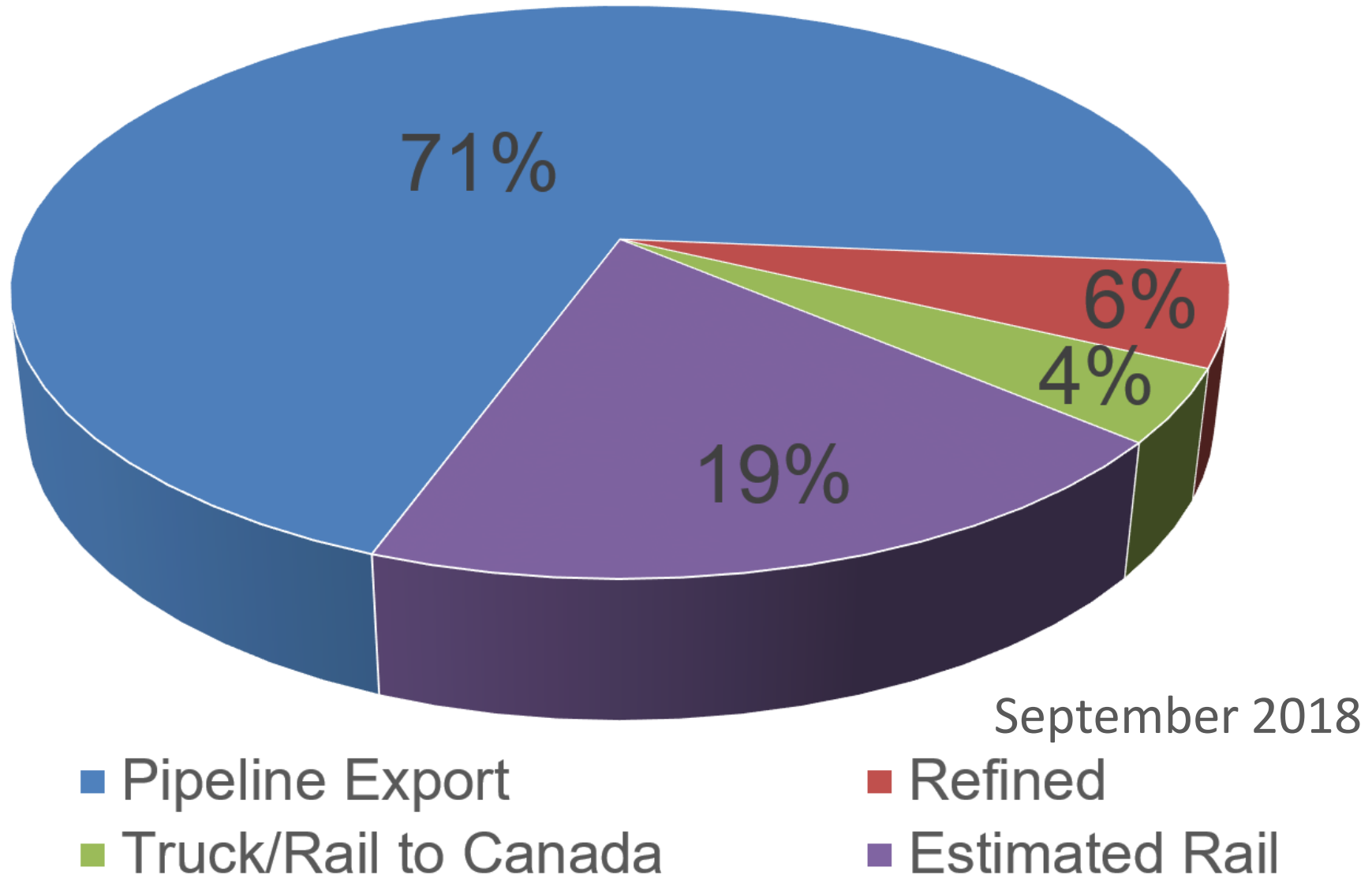
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,178,050	50,123	3,555	1,231,728
February	1,175,308	50,860	3,628	1,229,796
March	1,162,354	49,837	3,502	1,215,693
April	1,227,234	52,426	3,515	1,283,175
May	1,248,222	53,701	3,471	1,305,394
June	1,227,431	53,436	3,443	1,284,310
July	1,269,290	52,218	3,377	1,324,885
August	1,292,505	52,483	3,471	1,348,459
September	1,359,257			
October				
November				
December				



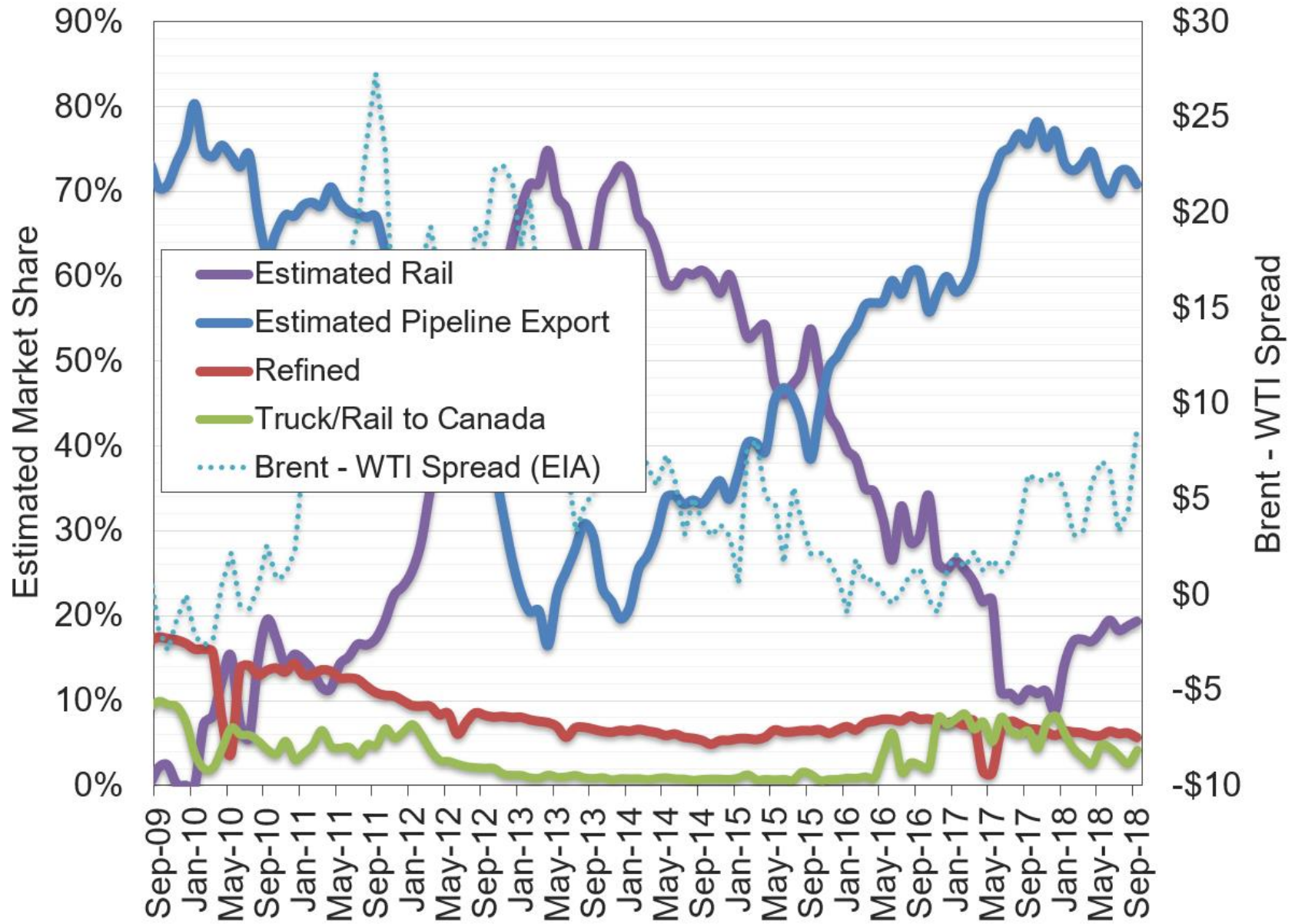
Monthly Production Change



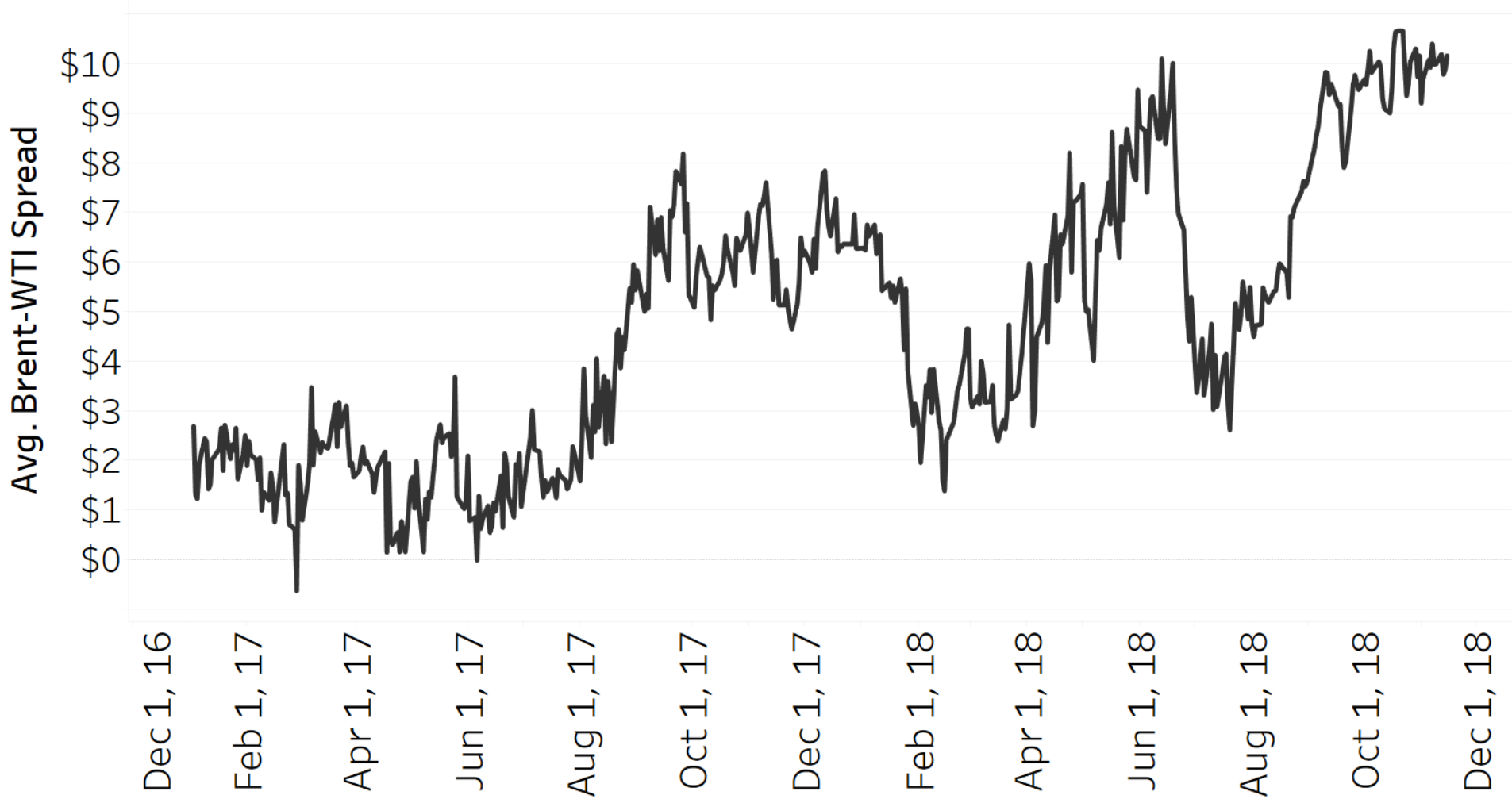
Estimated Williston Basin Oil Transportation



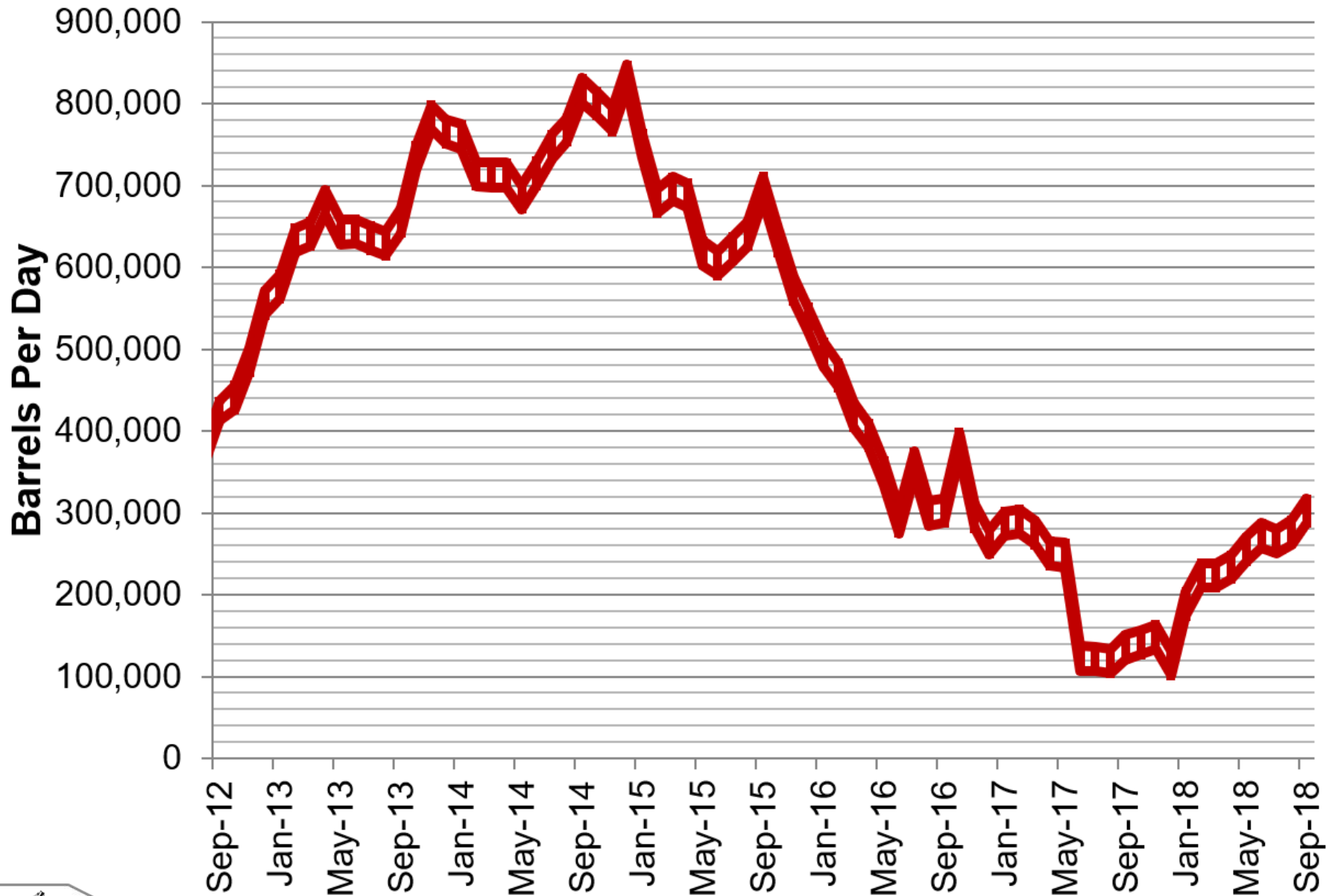
Estimated Williston Basin Oil Transportation



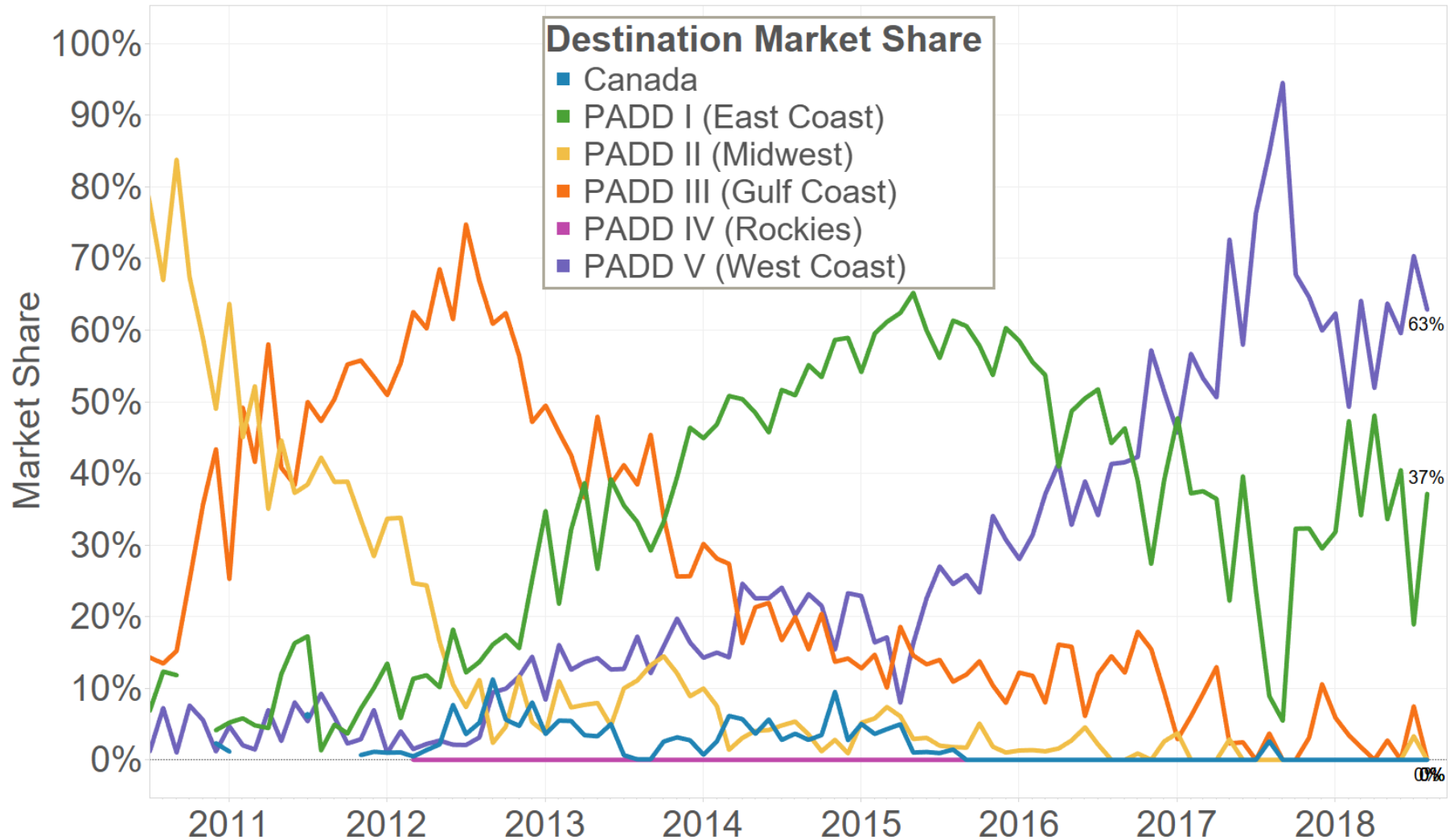
Brent – WTI Price Spread



Estimated ND Rail Export Volumes



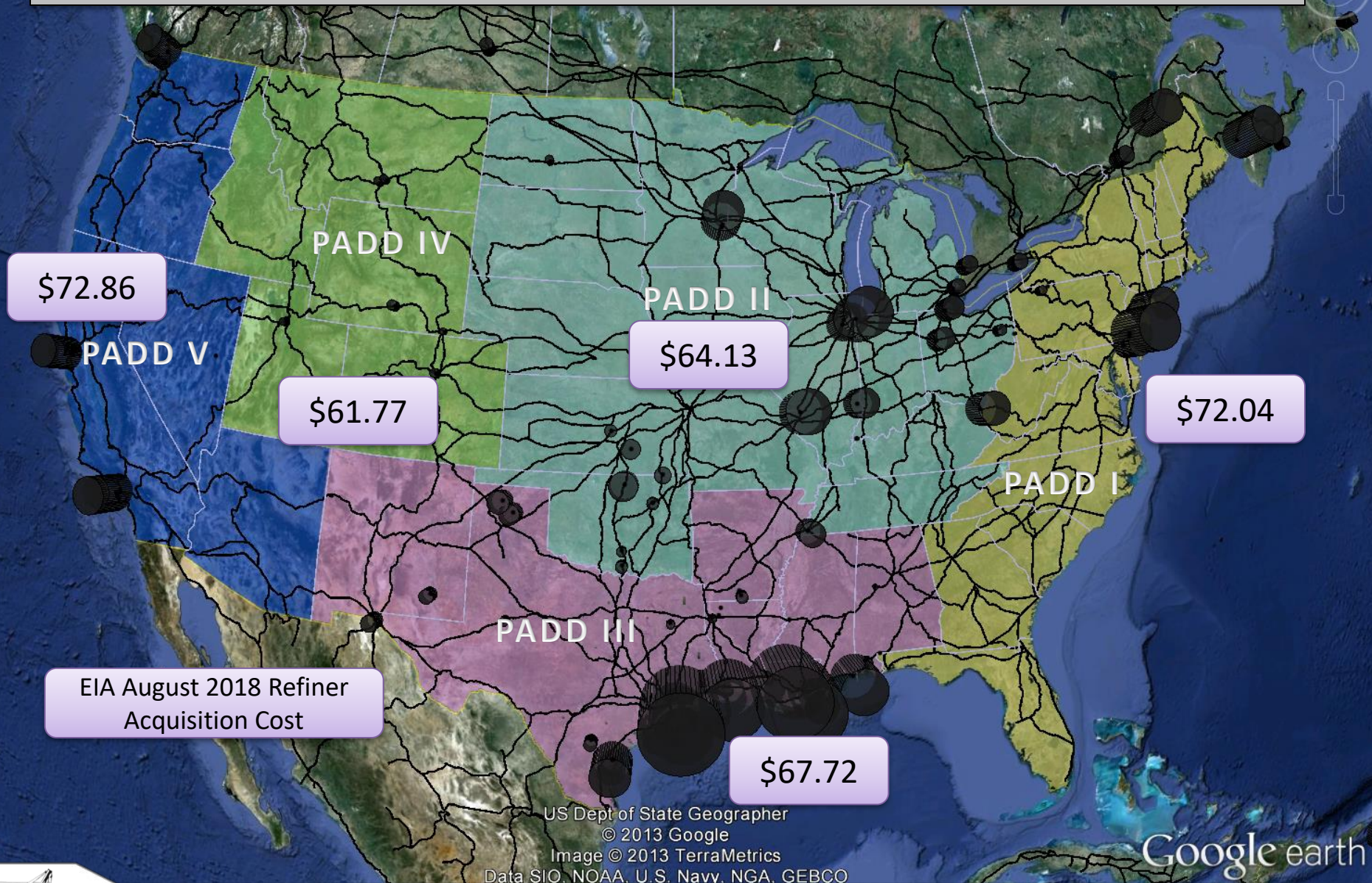
Rail Destinations Market Share (Aug. 2018)



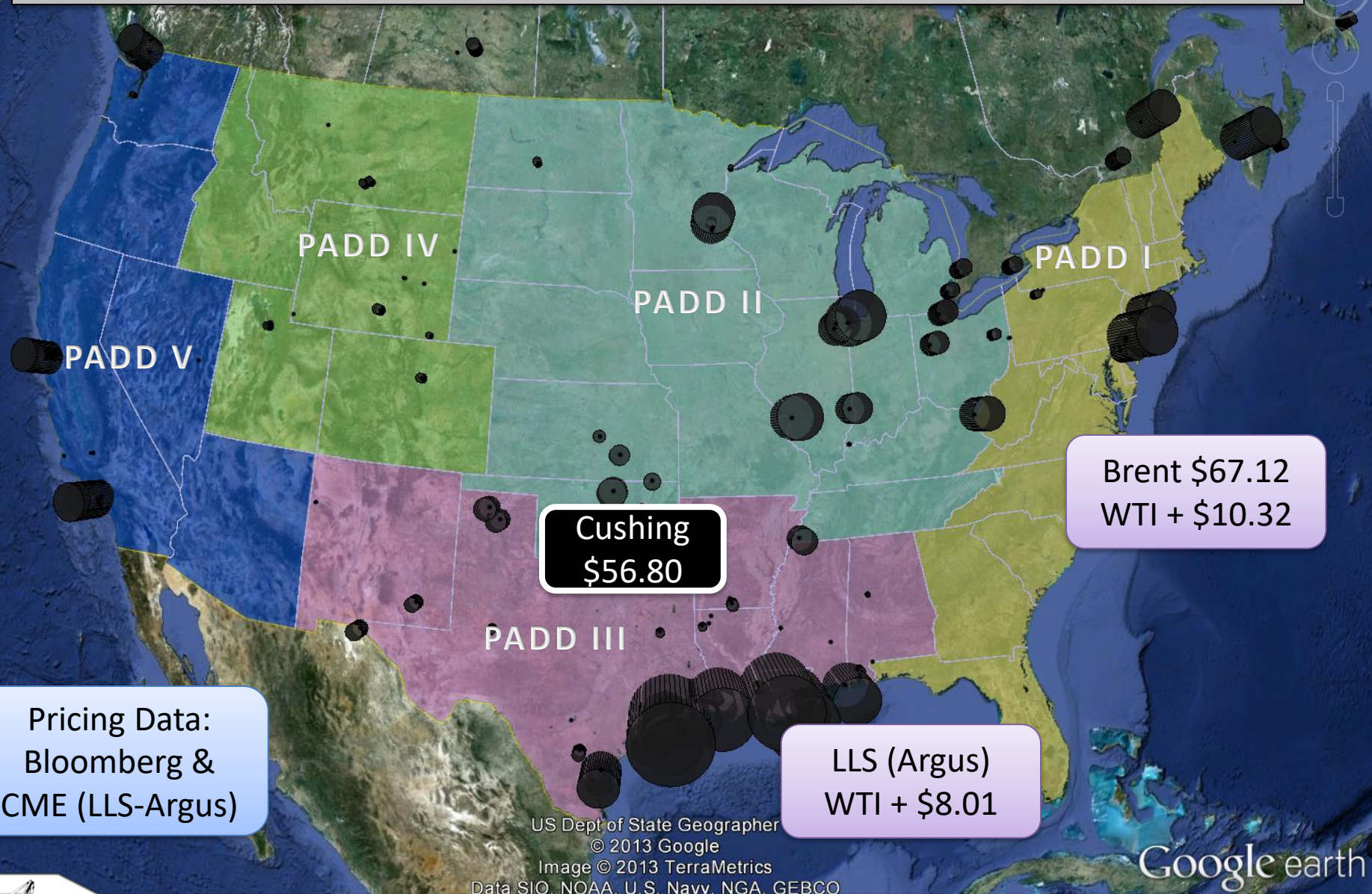
Data for Rail Destination Market Share Provided by the US Energy Information Administration



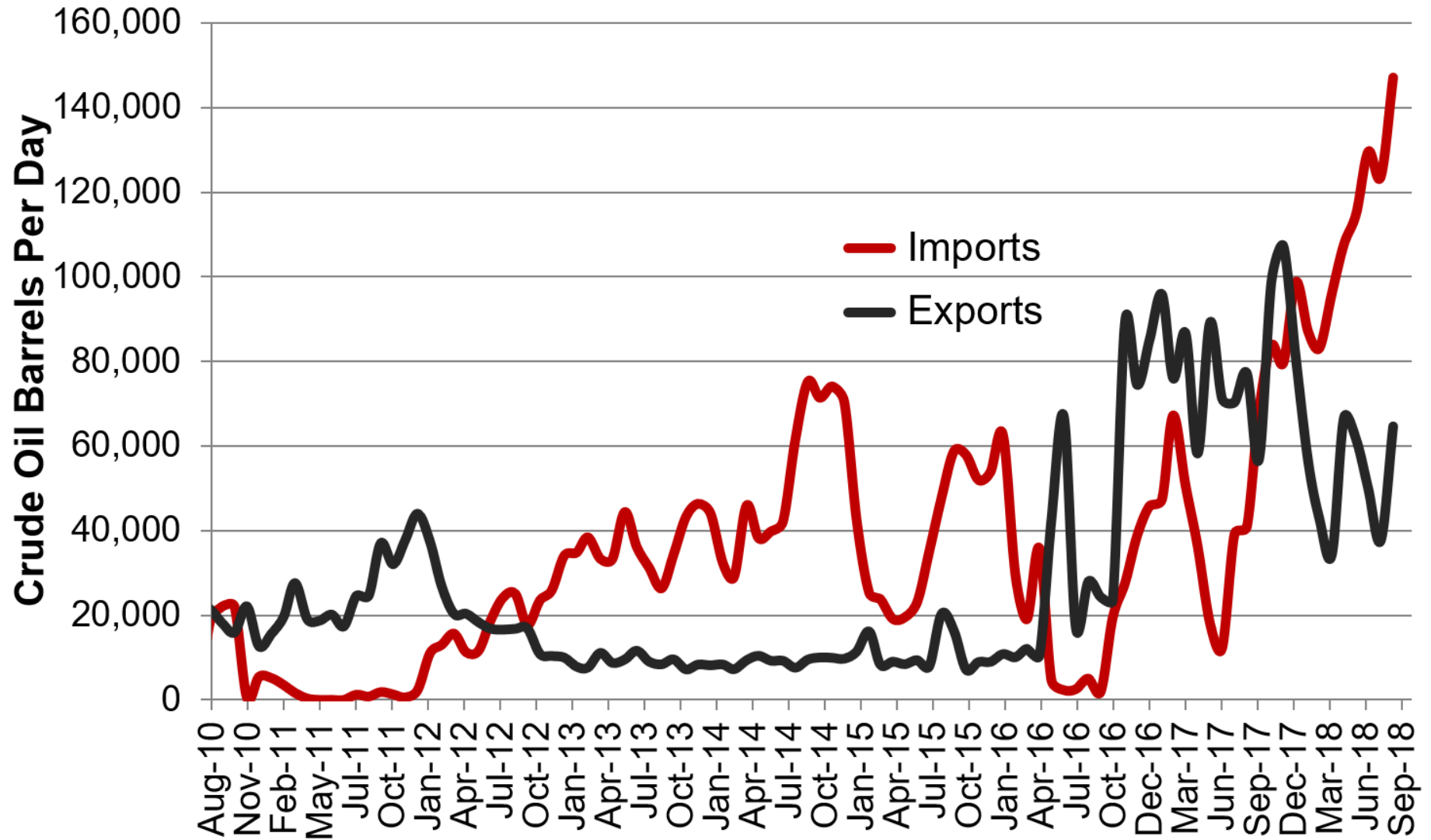
Major Rail Lines and Refineries



Crude Oil Prices – Nov. 16, 2018



Williston Basin Truck/Rail Imports and Exports with Canada

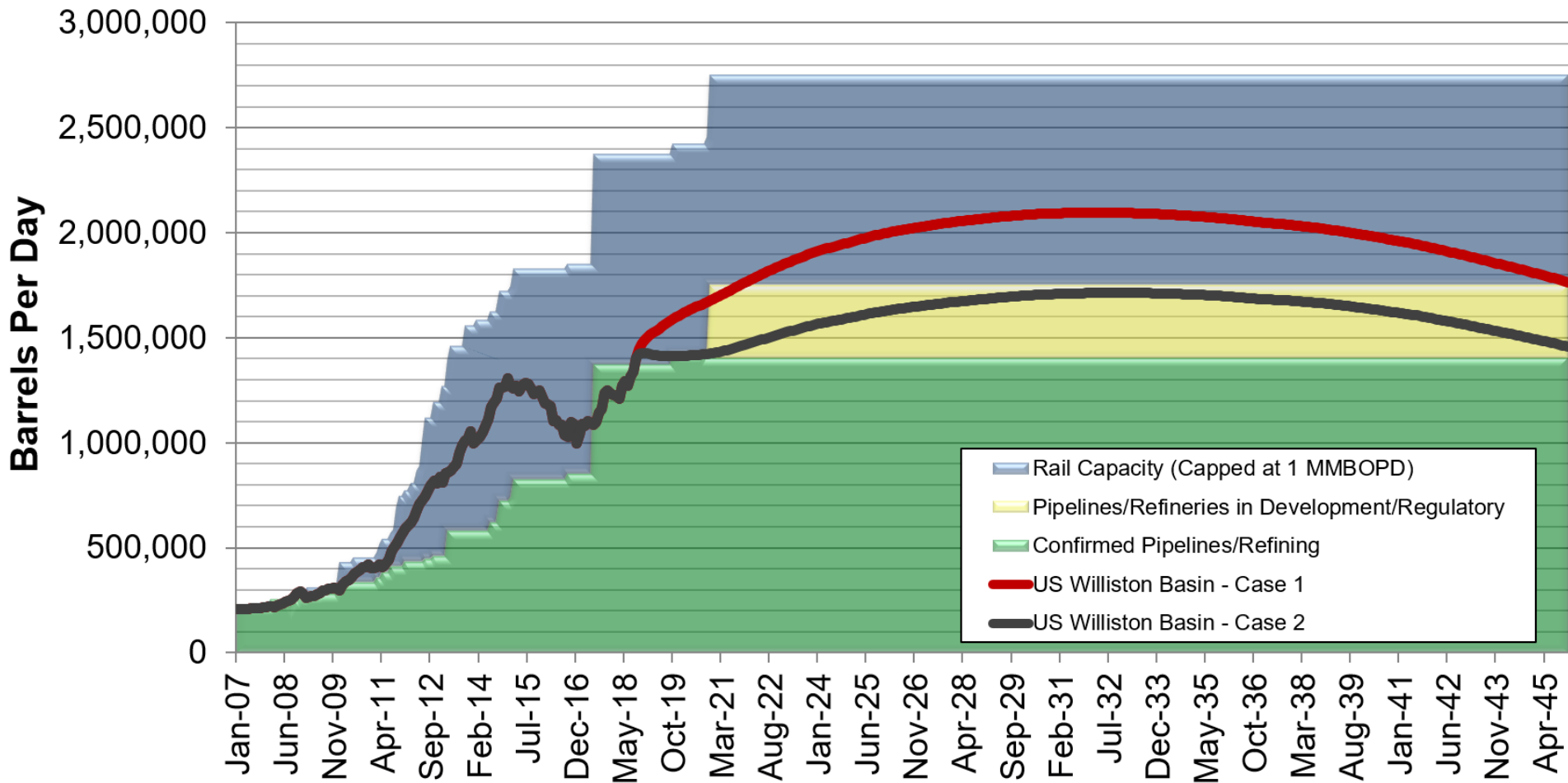


Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.



Williston Basin Oil Production & Export Capacity, BOPD

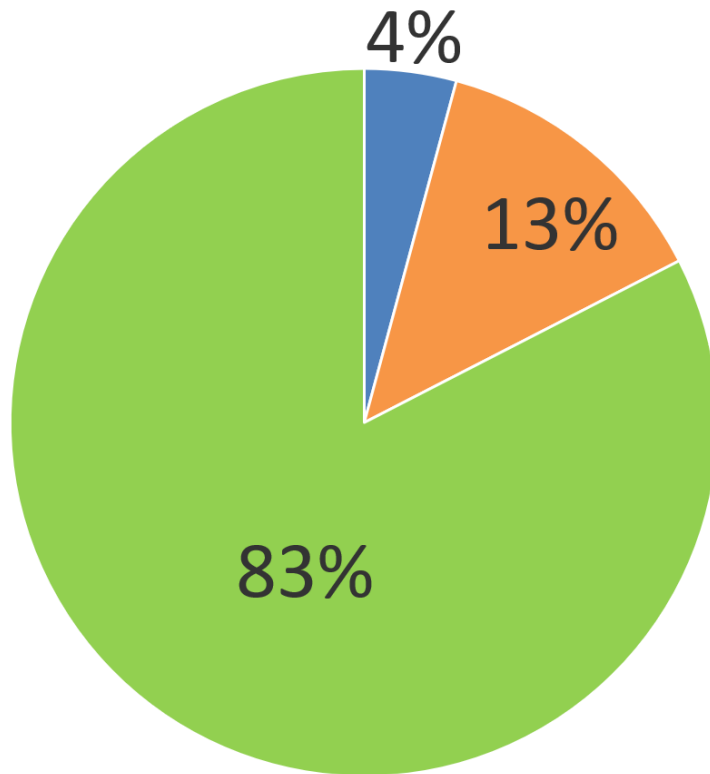
Assumes Current Technology – Enhanced Oil Recovery Not Included



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



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.

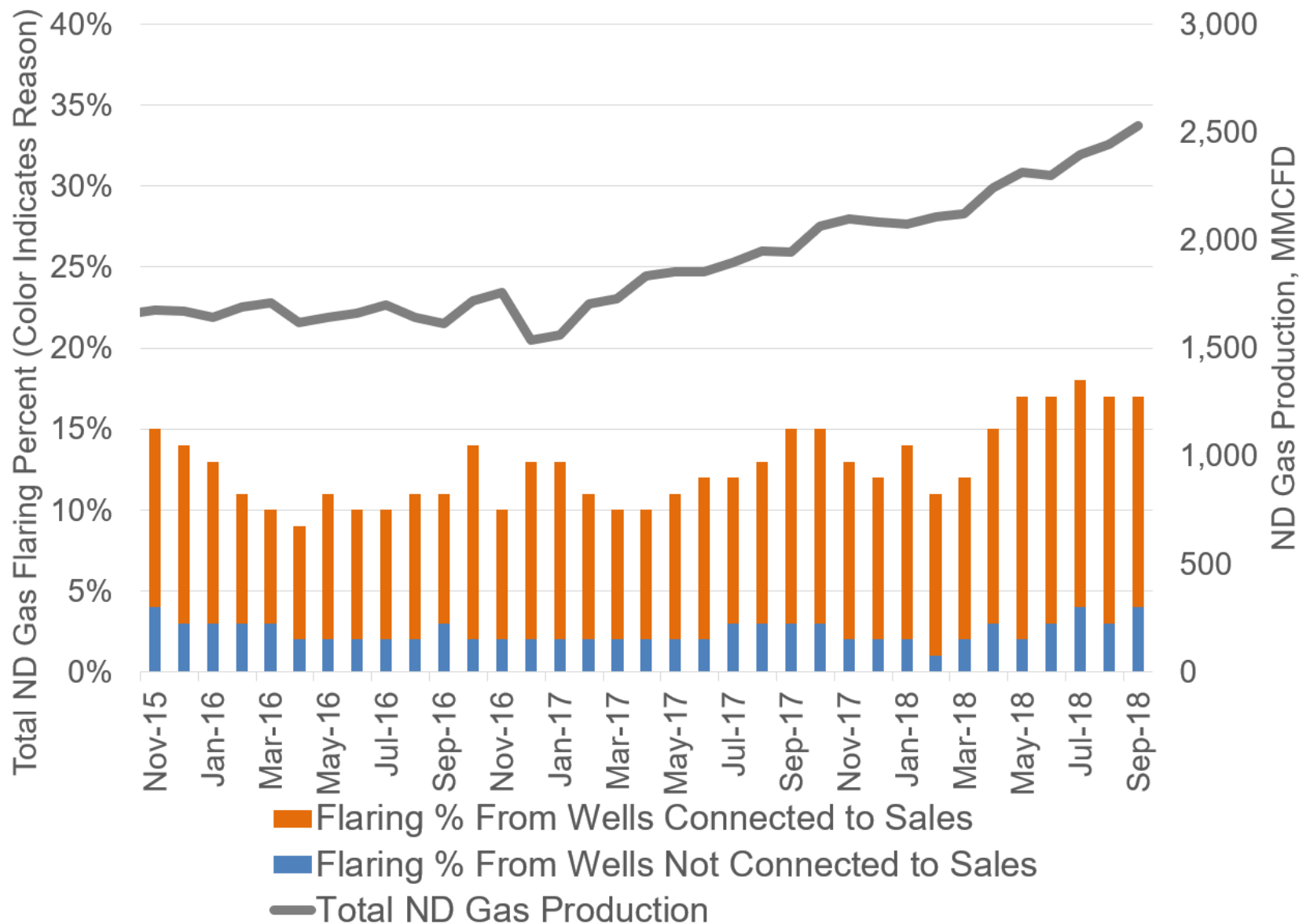
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

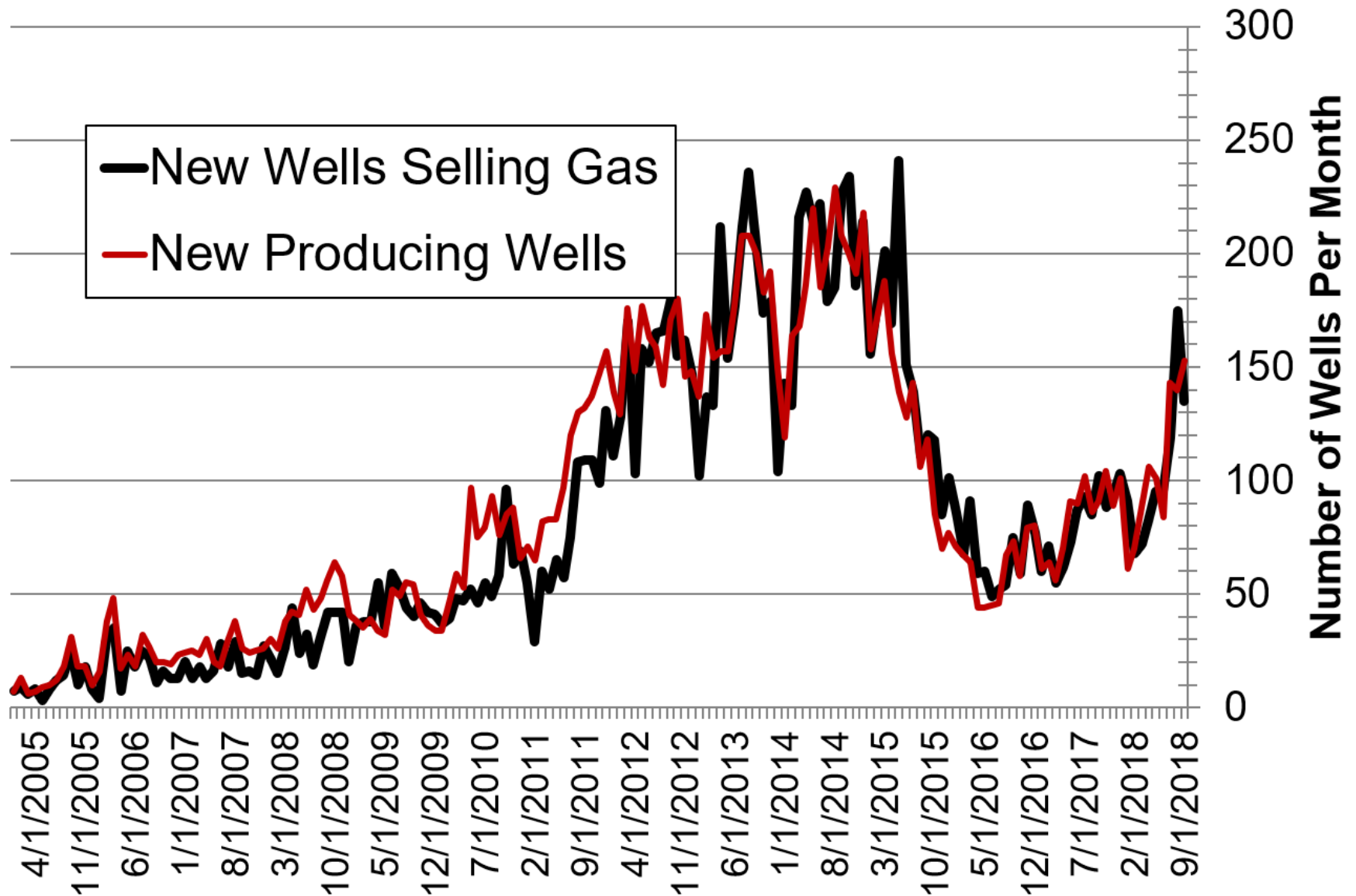
September 2018 Data – Non-Confidential Wells



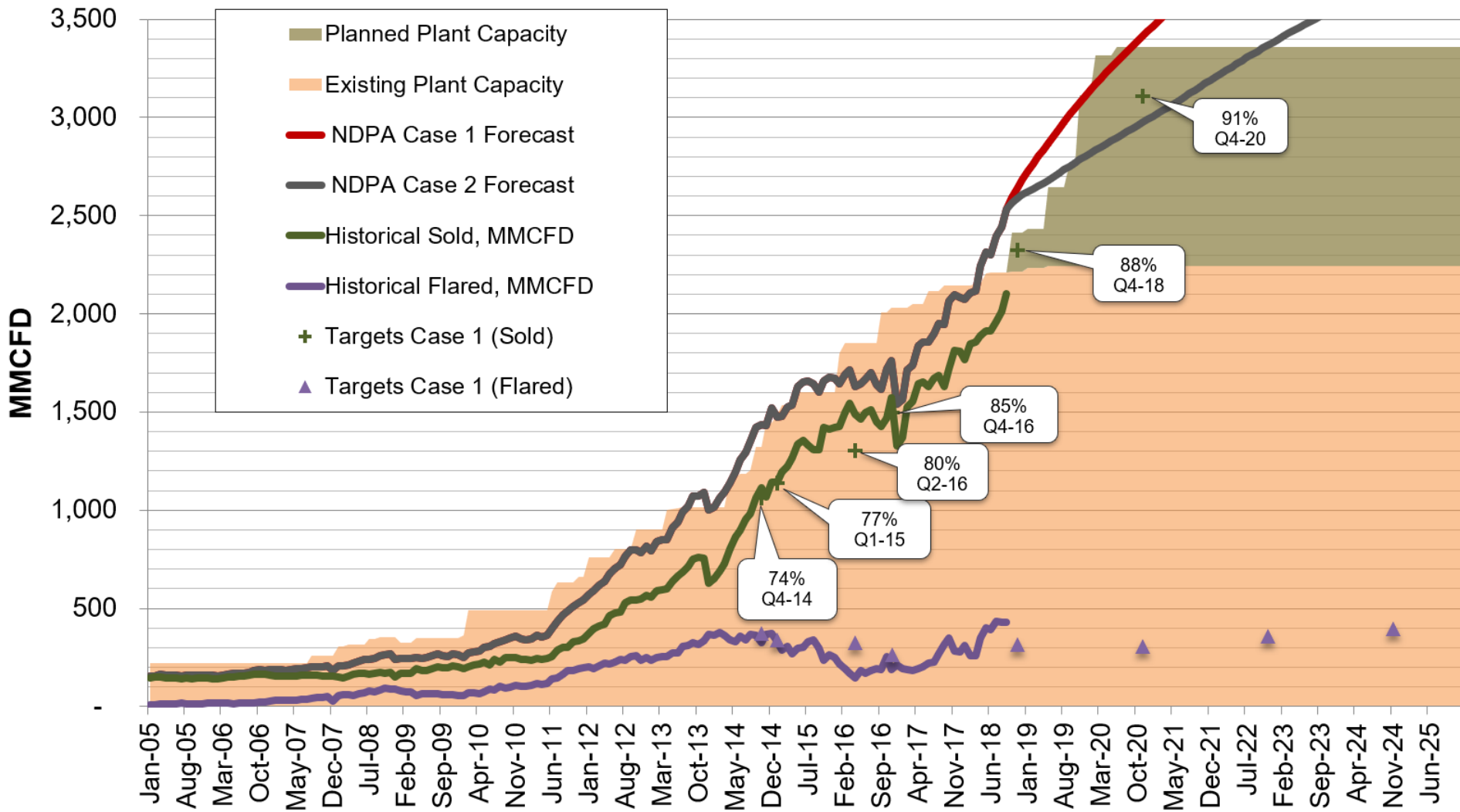
Solving the Flaring Challenge



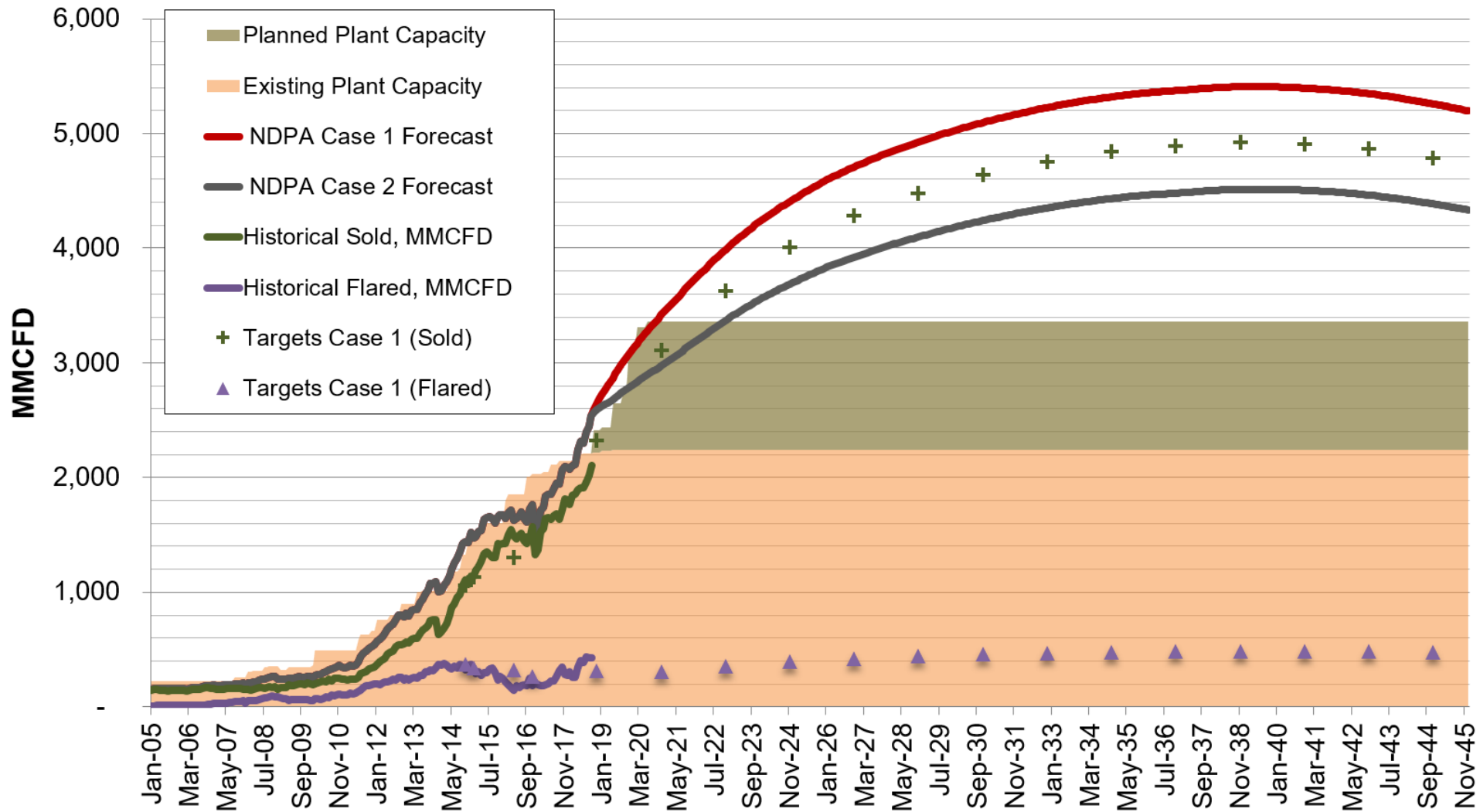
Solving the Flaring Challenge



Solving the Flaring Challenge



Solving the Flaring Challenge



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