



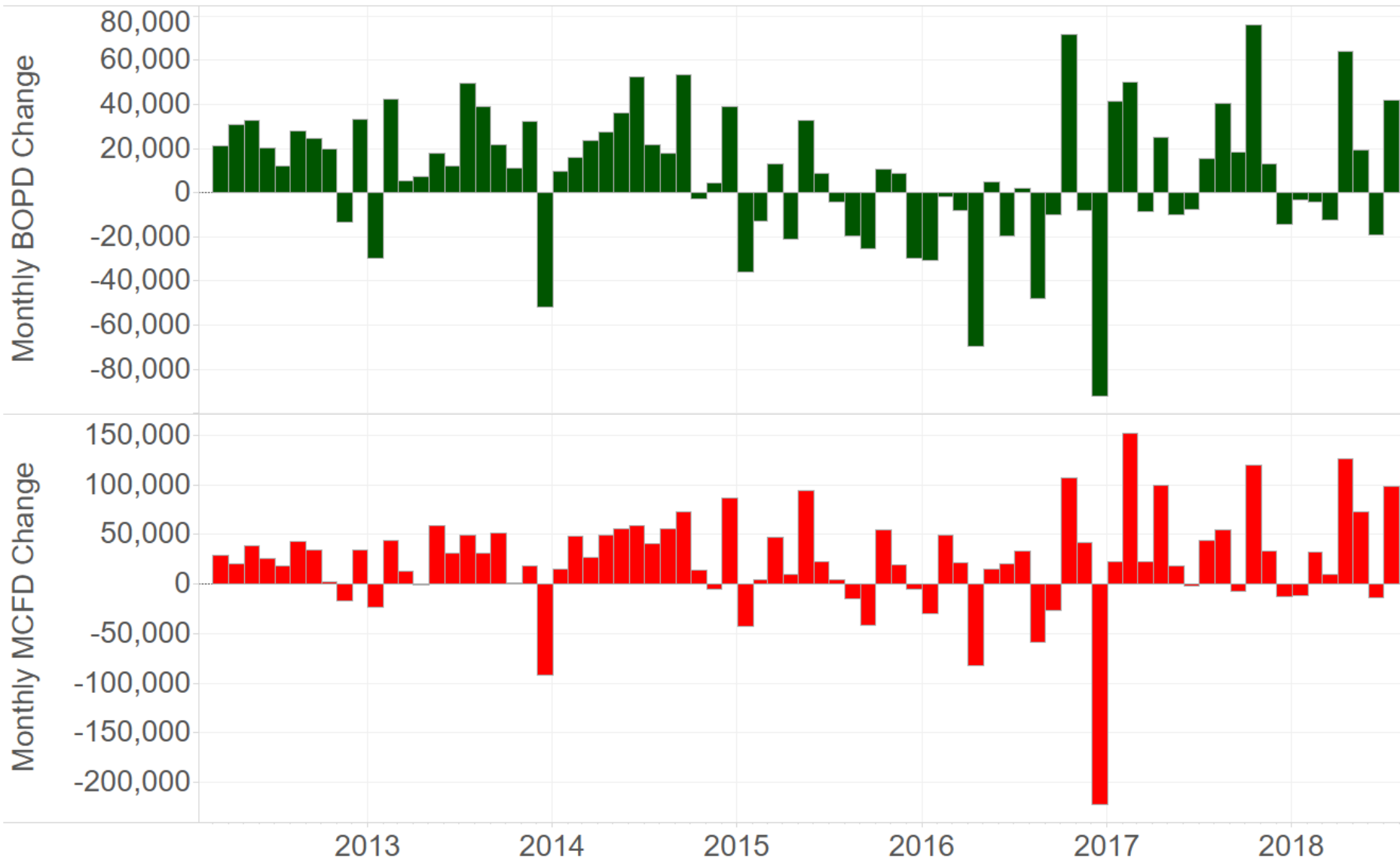
September 2018 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
September 14, 2018

US Williston Basin Oil Production - 2018

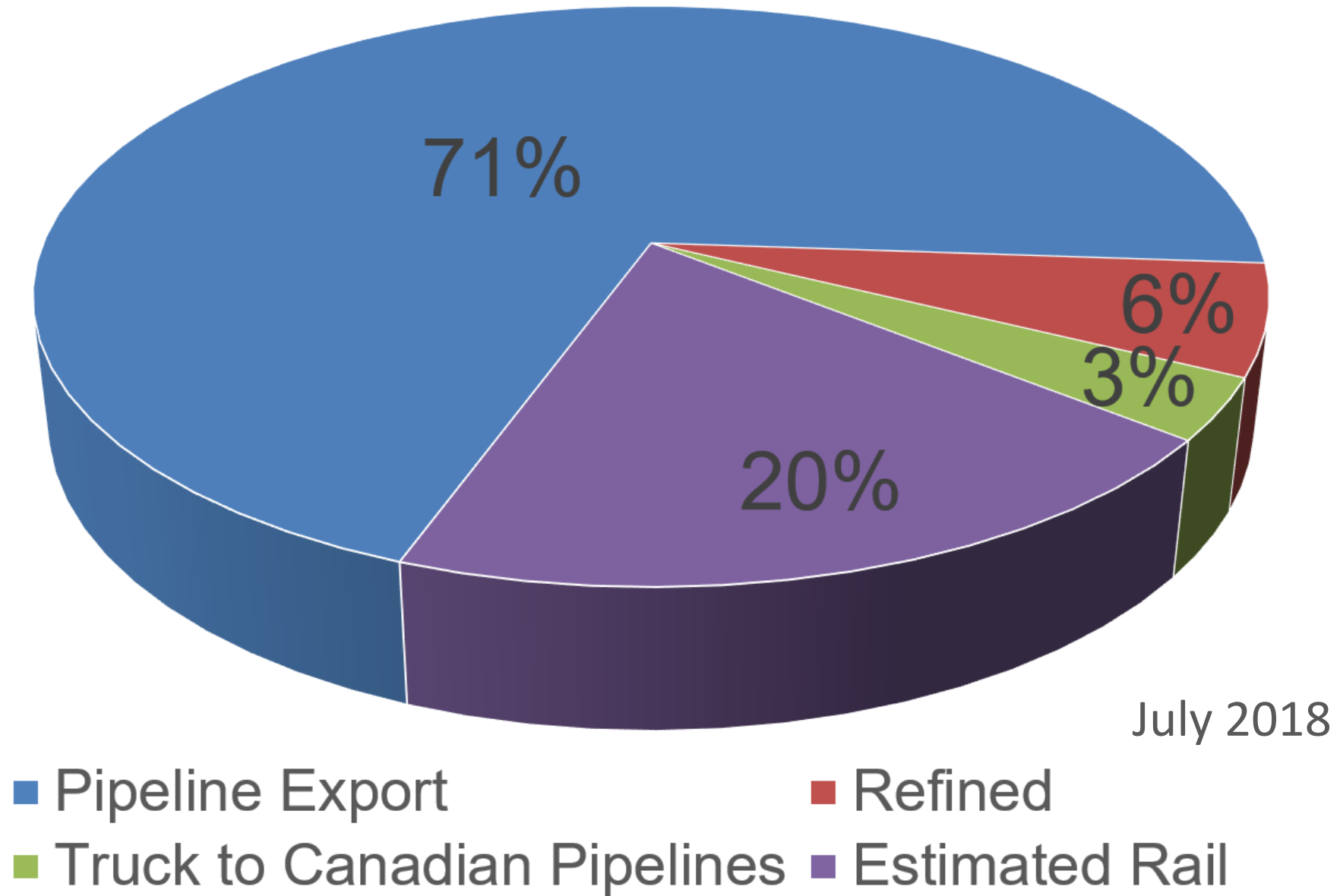
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,179,712	50,122	3,555	1,233,389
February	1,175,285	50,873	3,628	1,229,786
March	1,162,727	49,828	3,502	1,216,057
April	1,227,003	51,665	3,515	1,282,183
May	1,246,355	51,498	3,471	1,301,324
June	1,227,320	49,567	3,443	1,280,330
July	1,269,366			
August				
September				
October				
November				
December				



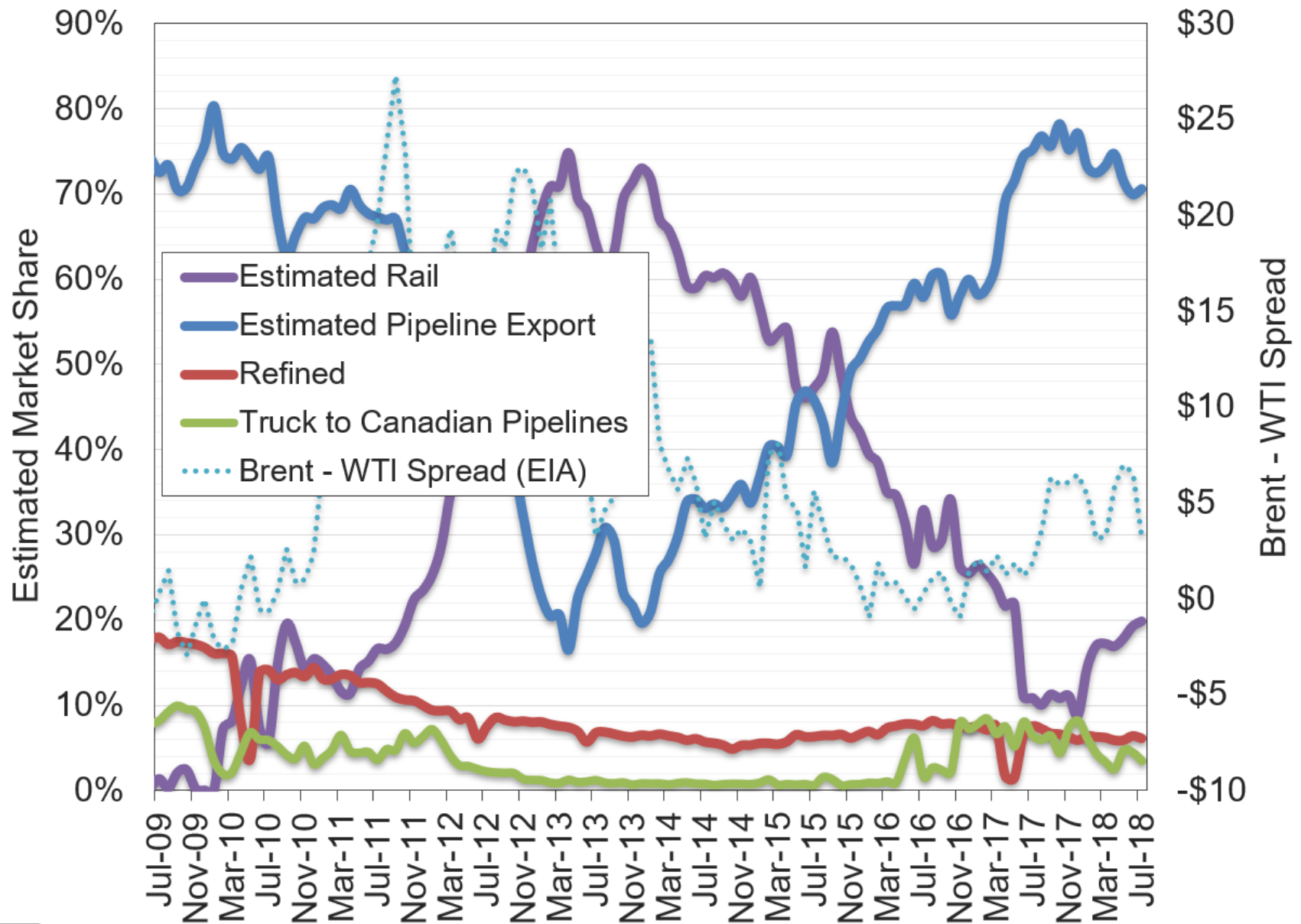
Monthly Production Change



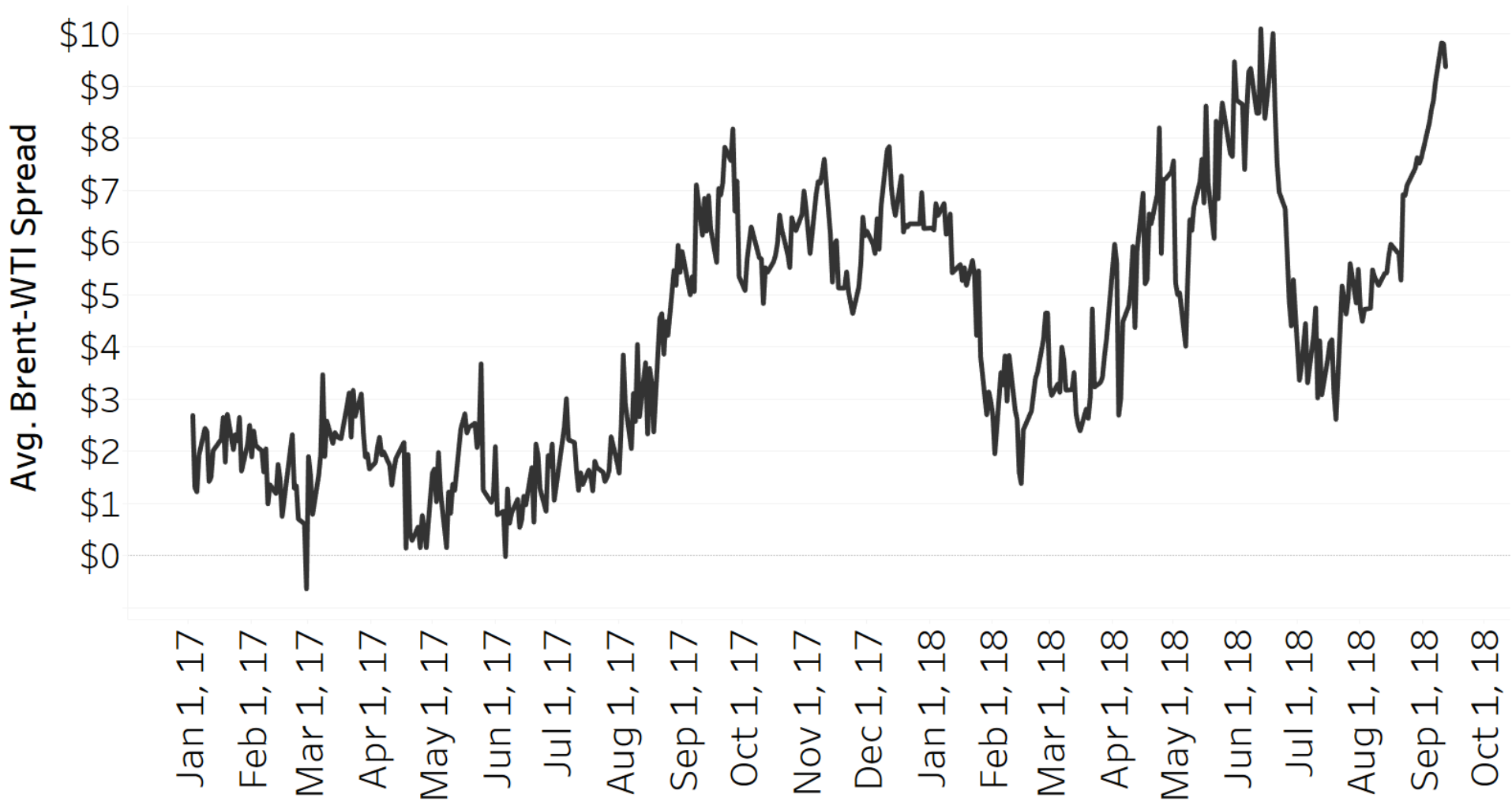
Estimated Williston Basin Oil Transportation



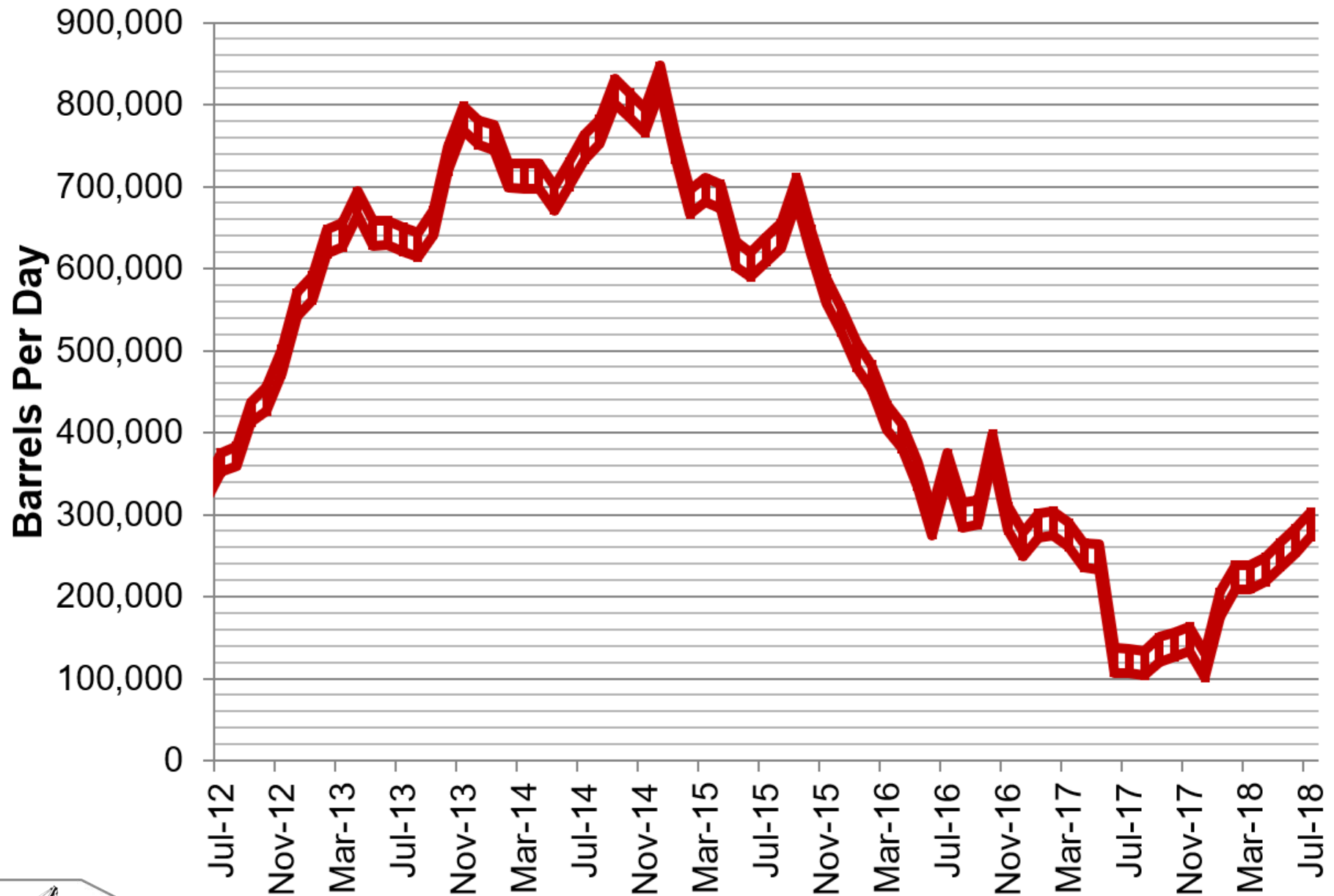
Estimated Williston Basin Oil Transportation



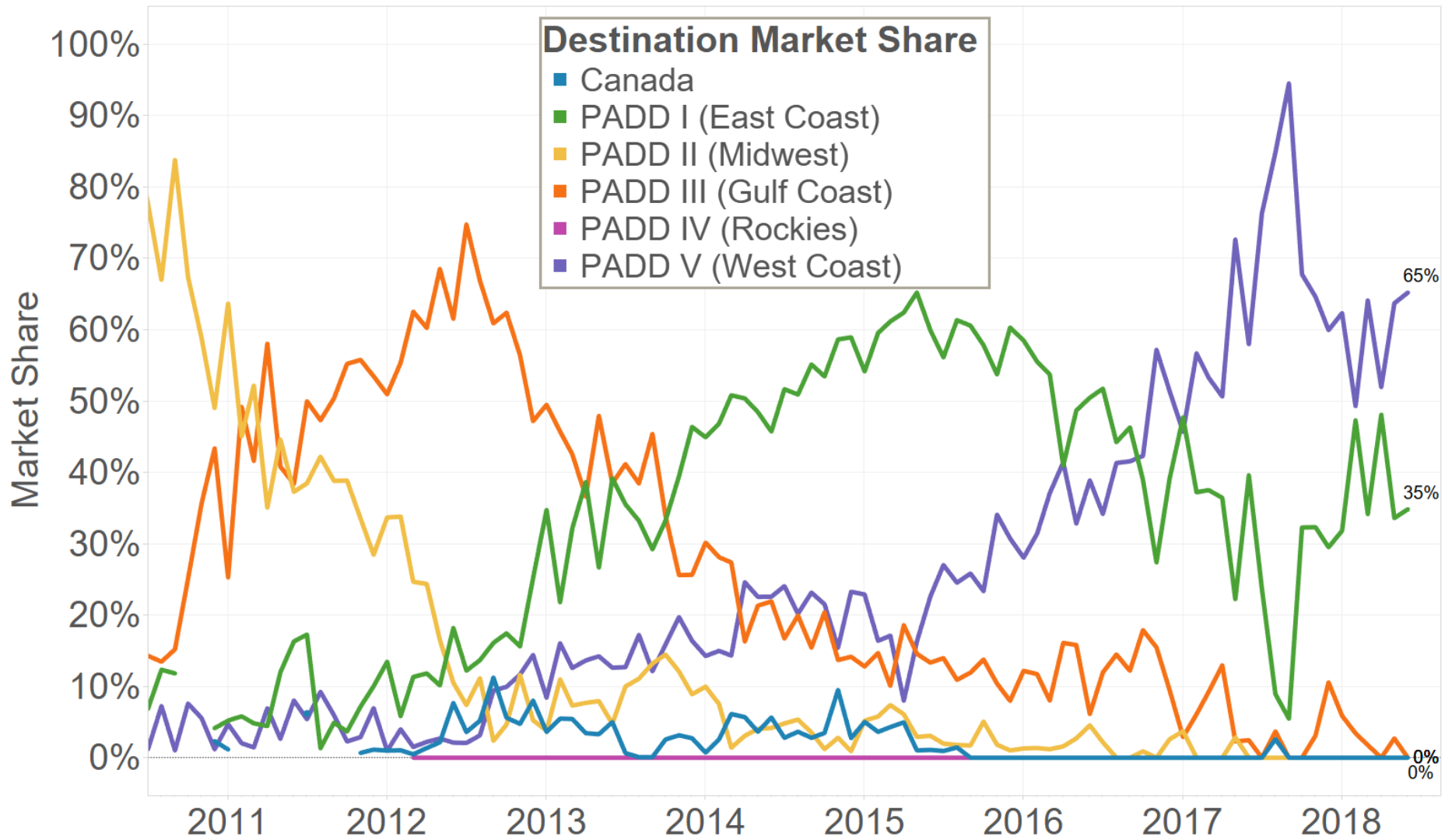
Brent – WTI Price Spread



Estimated ND Rail Export Volumes



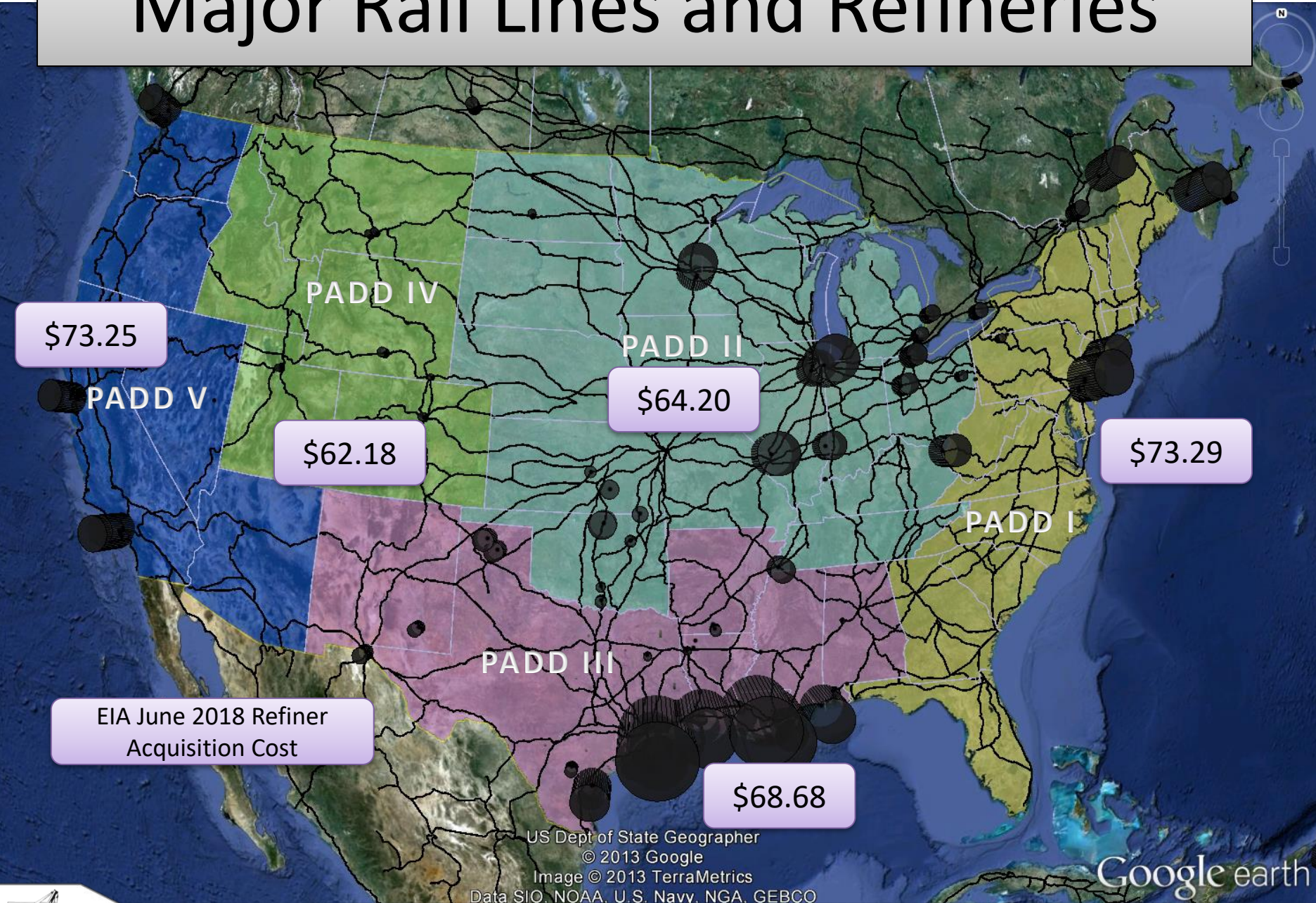
Rail Destinations Market Share (June 2018)



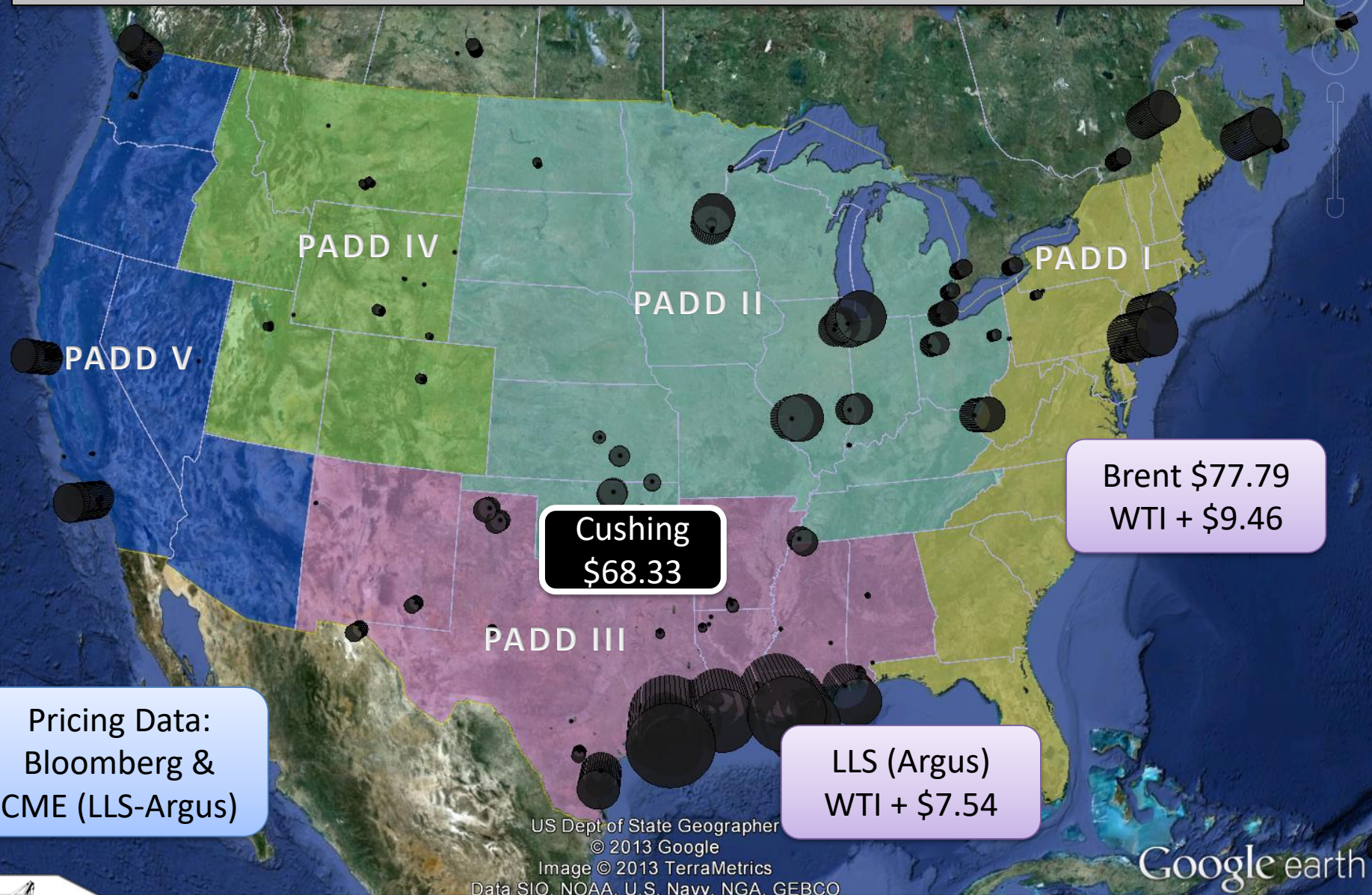
Data for Rail Destination Market Share Provided by the US Energy Information Administration



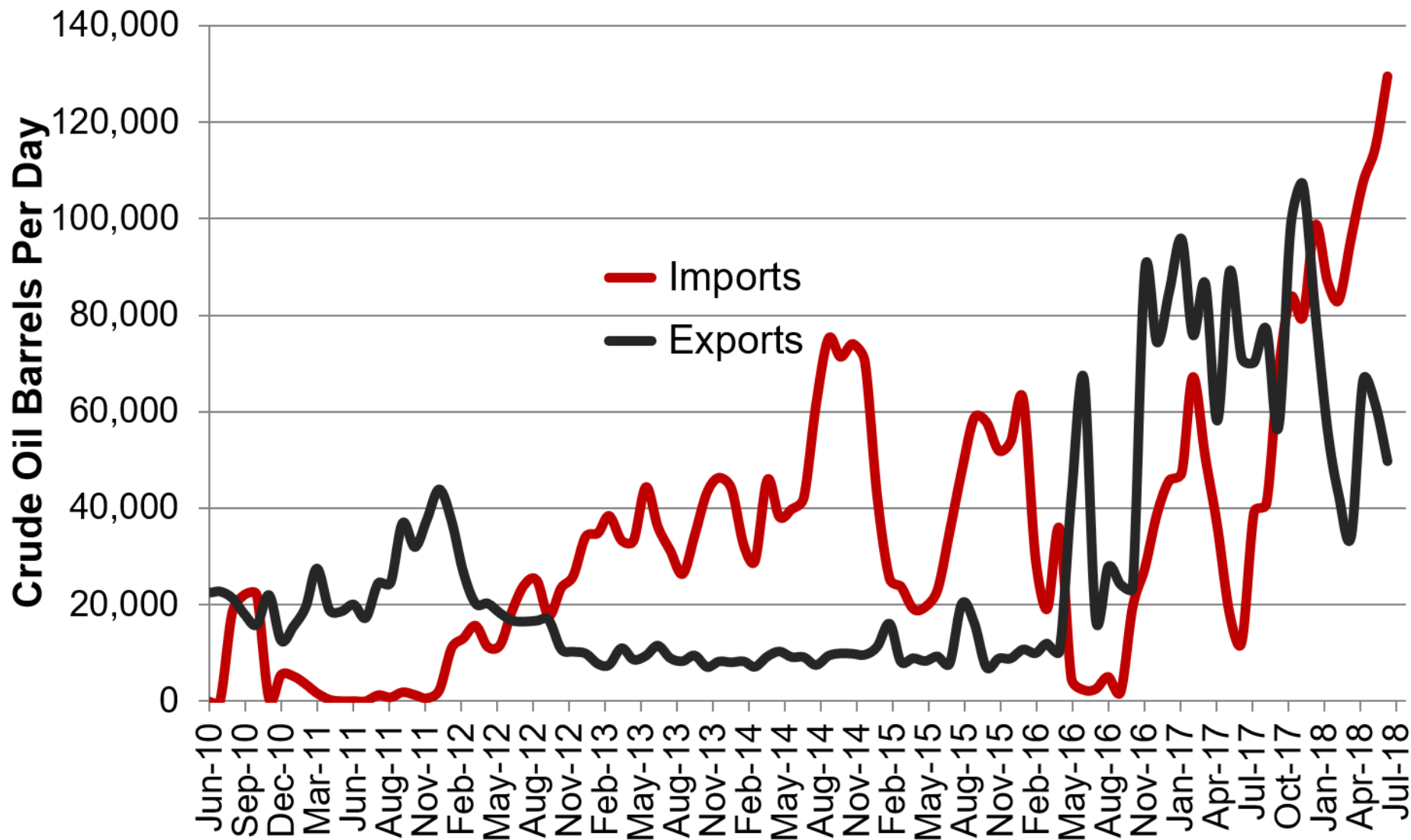
Major Rail Lines and Refineries



Crude Oil Prices – Sep. 14, 2018



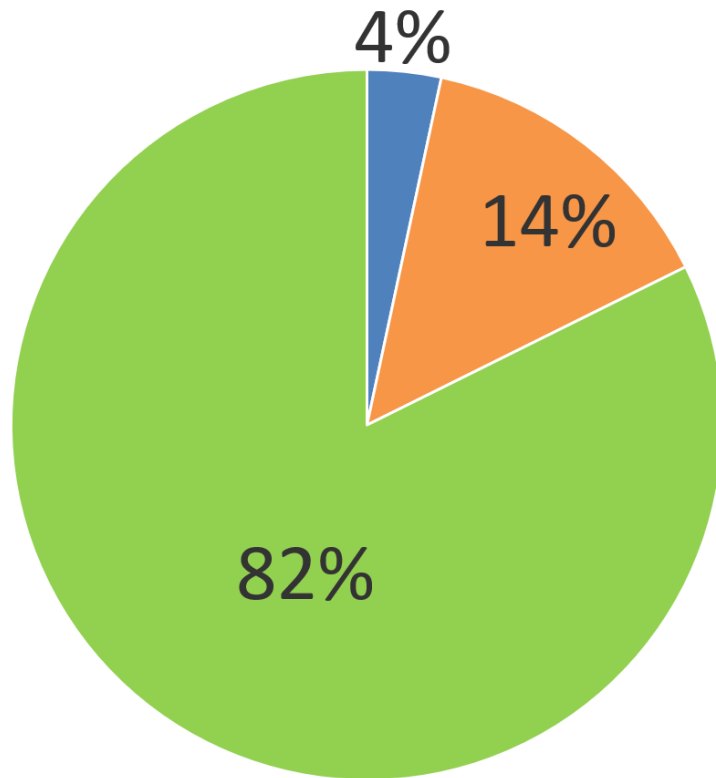
Williston Basin Truck Imports and Exports with Canada



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.

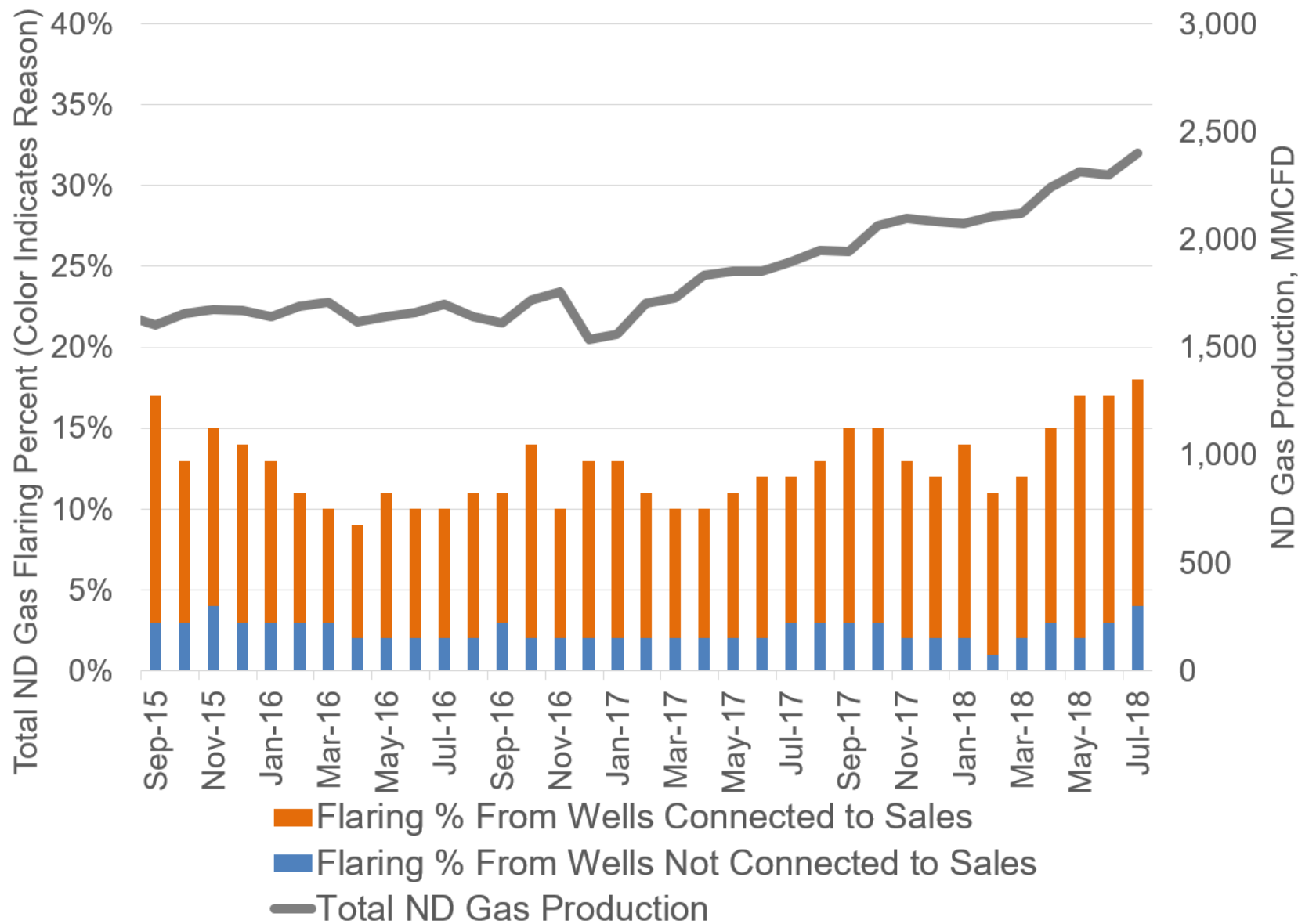
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

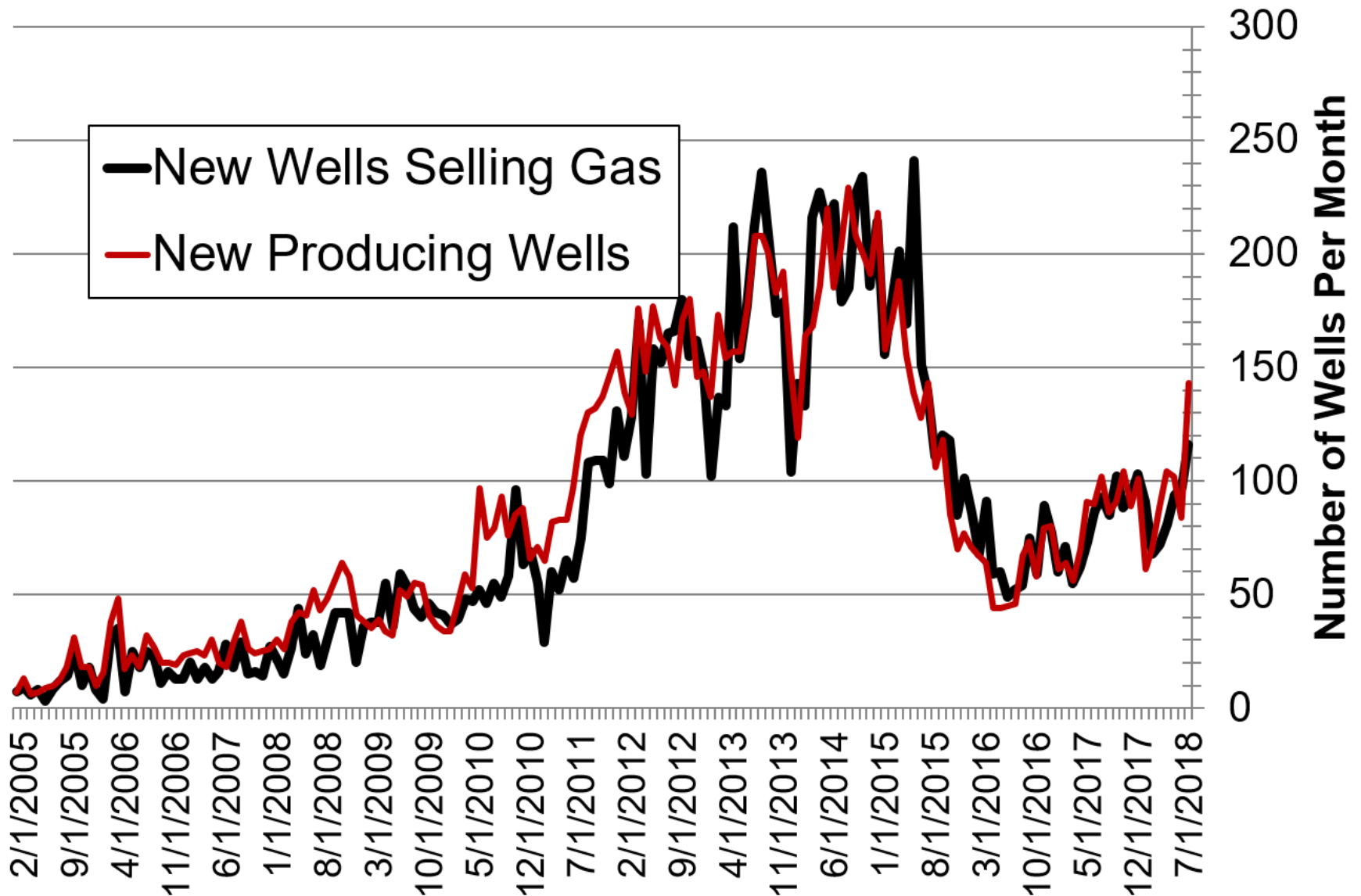
July 2018 Data – Non-Confidential Wells



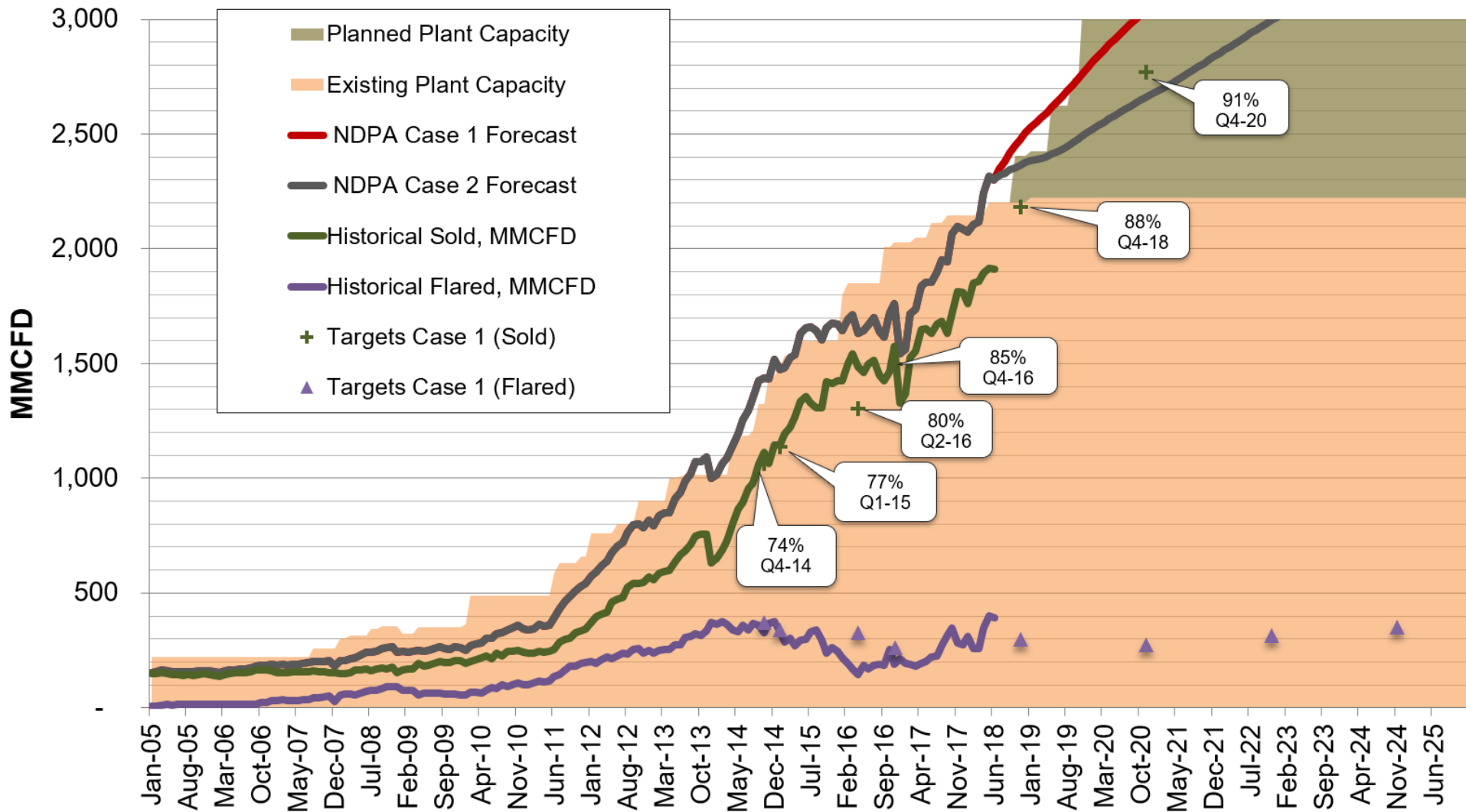
Solving the Flaring Challenge



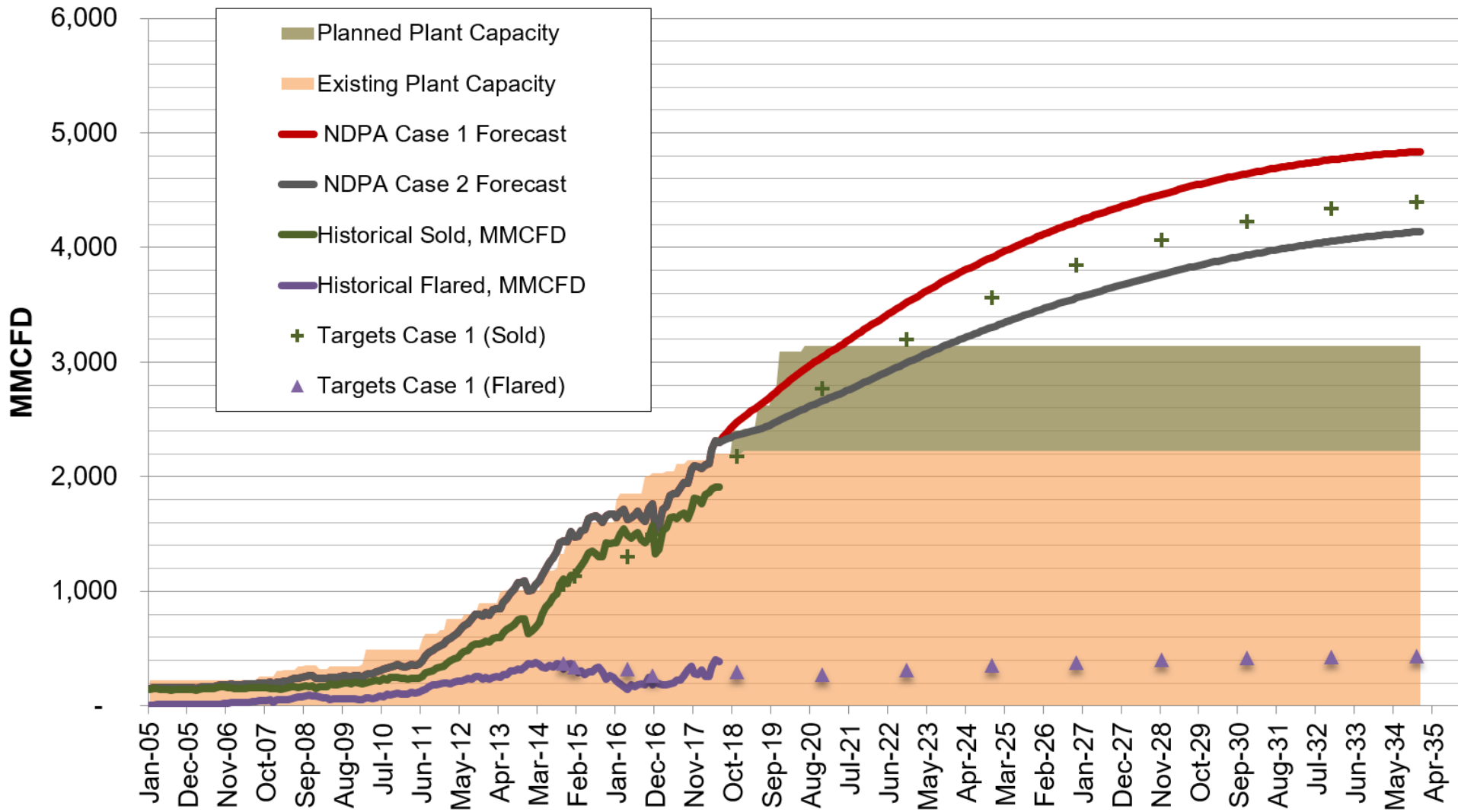
Solving the Flaring Challenge



Solving the Flaring Challenge



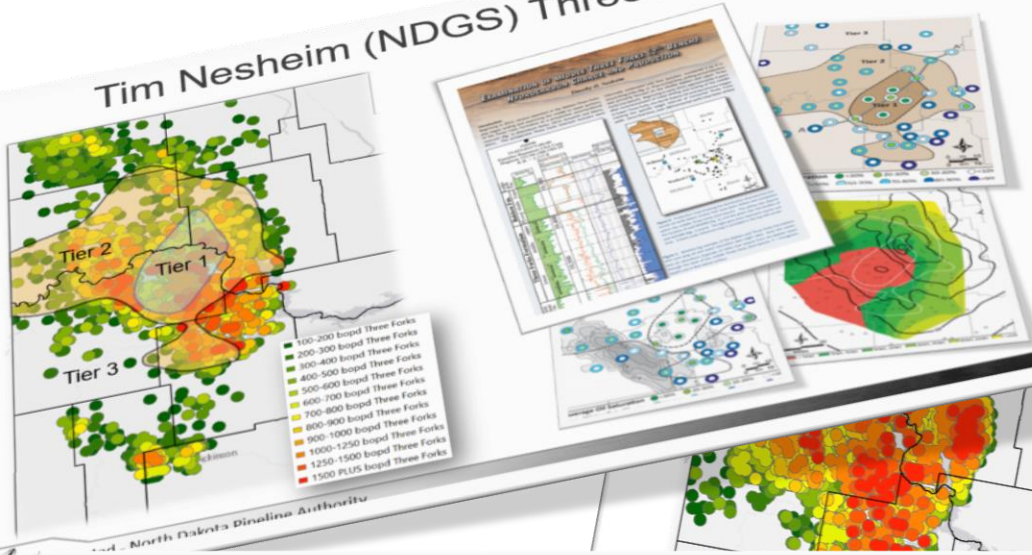
Solving the Flaring Challenge



New Bakken/Three Forks Work

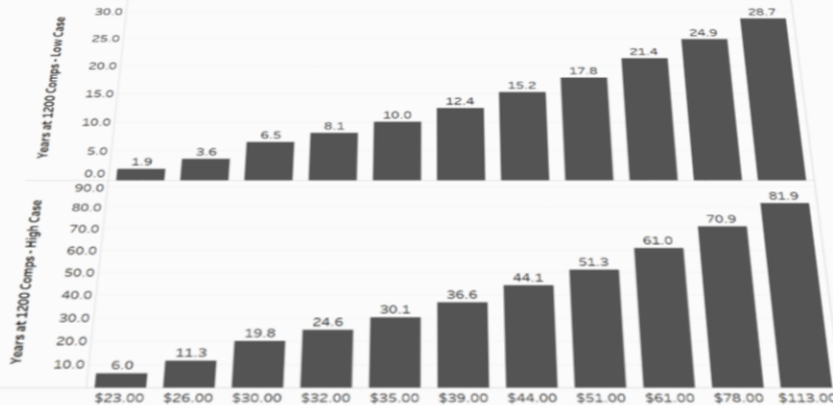
Full Slide Deck - September 14, 2018 NDIC Presentation Online

Tim Nesheim (NDGS) Three Forks Work

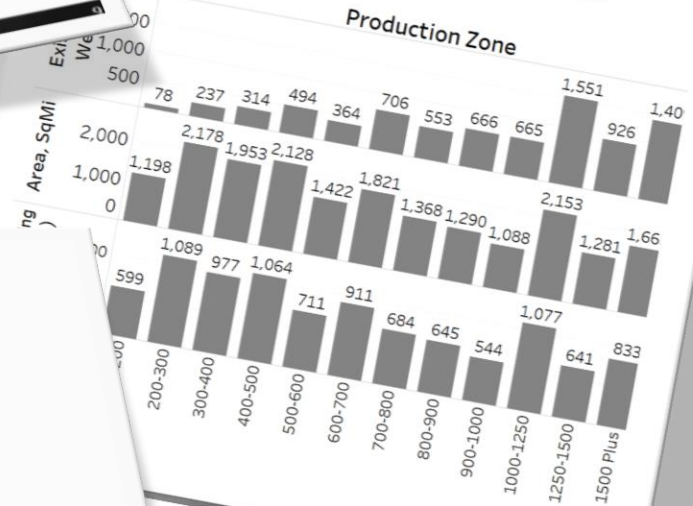


Years Remaining* / Minimum Wellhead Oil Price

*Assumes 1,200 Completions Per Year and \$7MM Well Costs (20% After Tax IRR)



Balance – Bakken Formation



Contact Information

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