



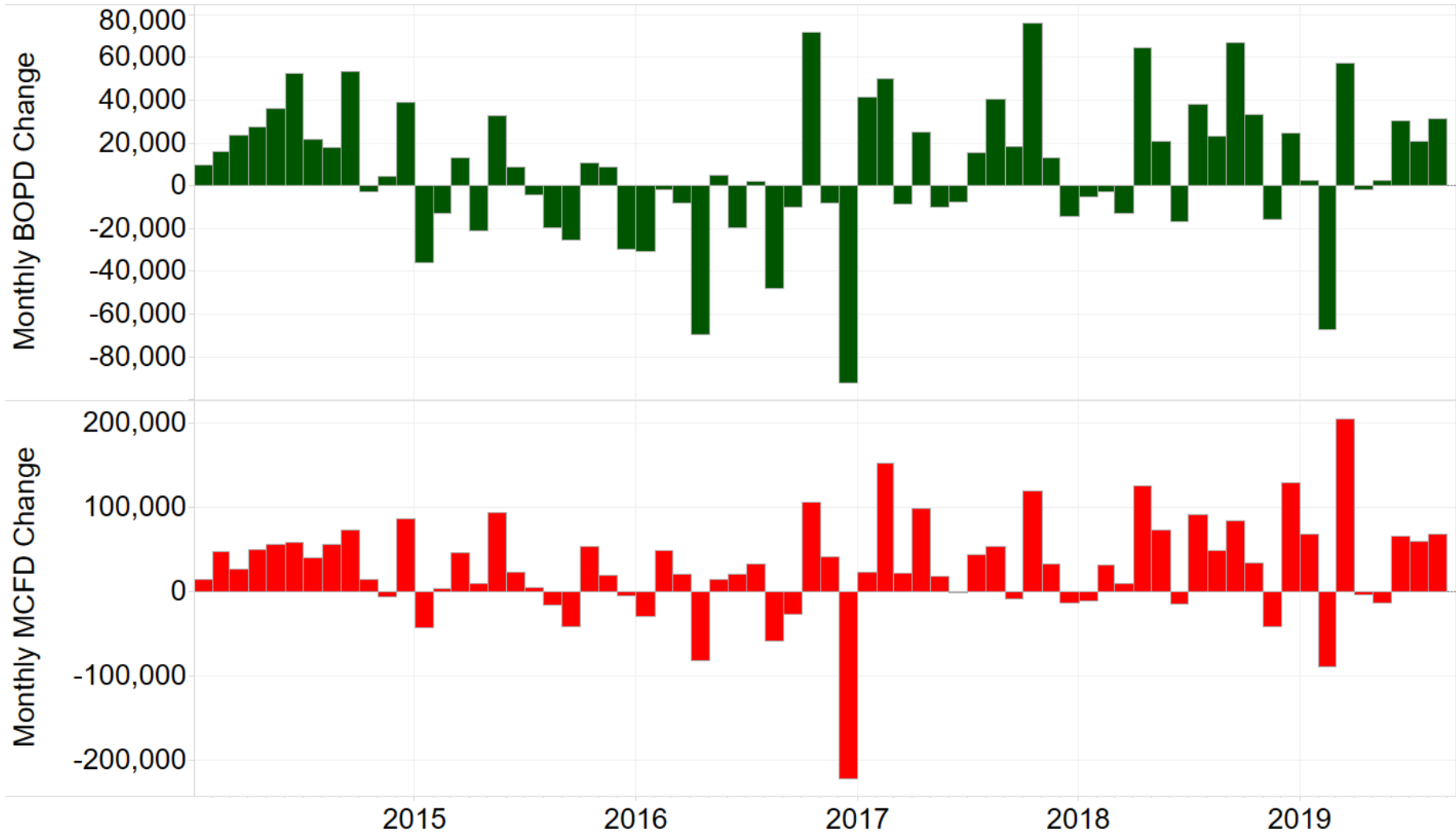
October 2019 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
October 17, 2019

US Williston Basin Oil Production - 2019

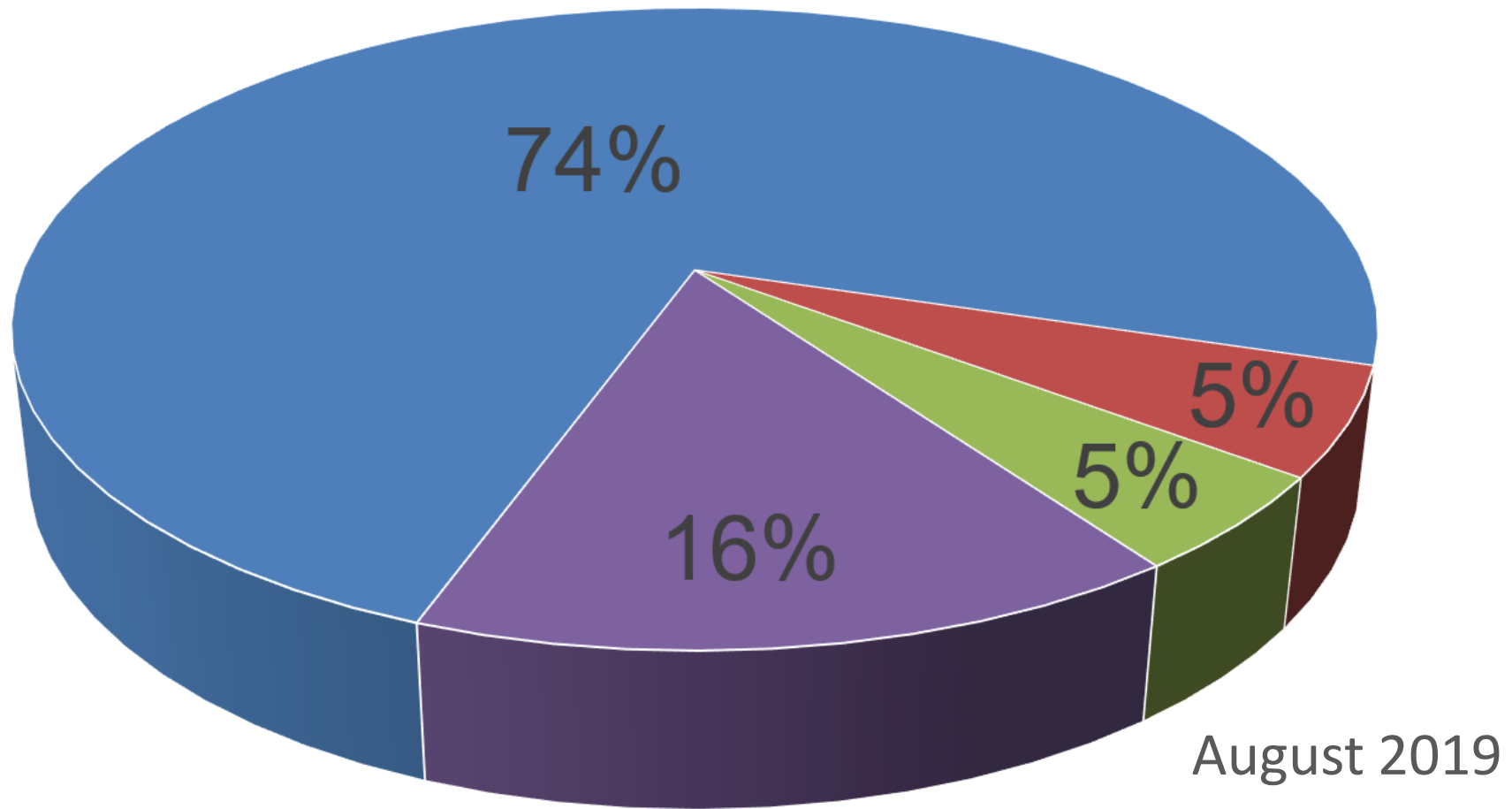
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,403,917	57,565	3,276	1,464,758
February	1,336,659	54,656	3,339	1,394,654
March	1,394,164	56,211	3,256	1,453,631
April	1,392,517	57,678	3,231	1,453,425
May	1,394,955	53,945	3,092	1,451,992
June	1,425,254	47,702	3,122	1,476,078
July	1,445,934		3,128	
August	1,477,394		3,124	
September				
October				
November				
December				



Monthly Production Change



Estimated Williston Basin Oil Transportation

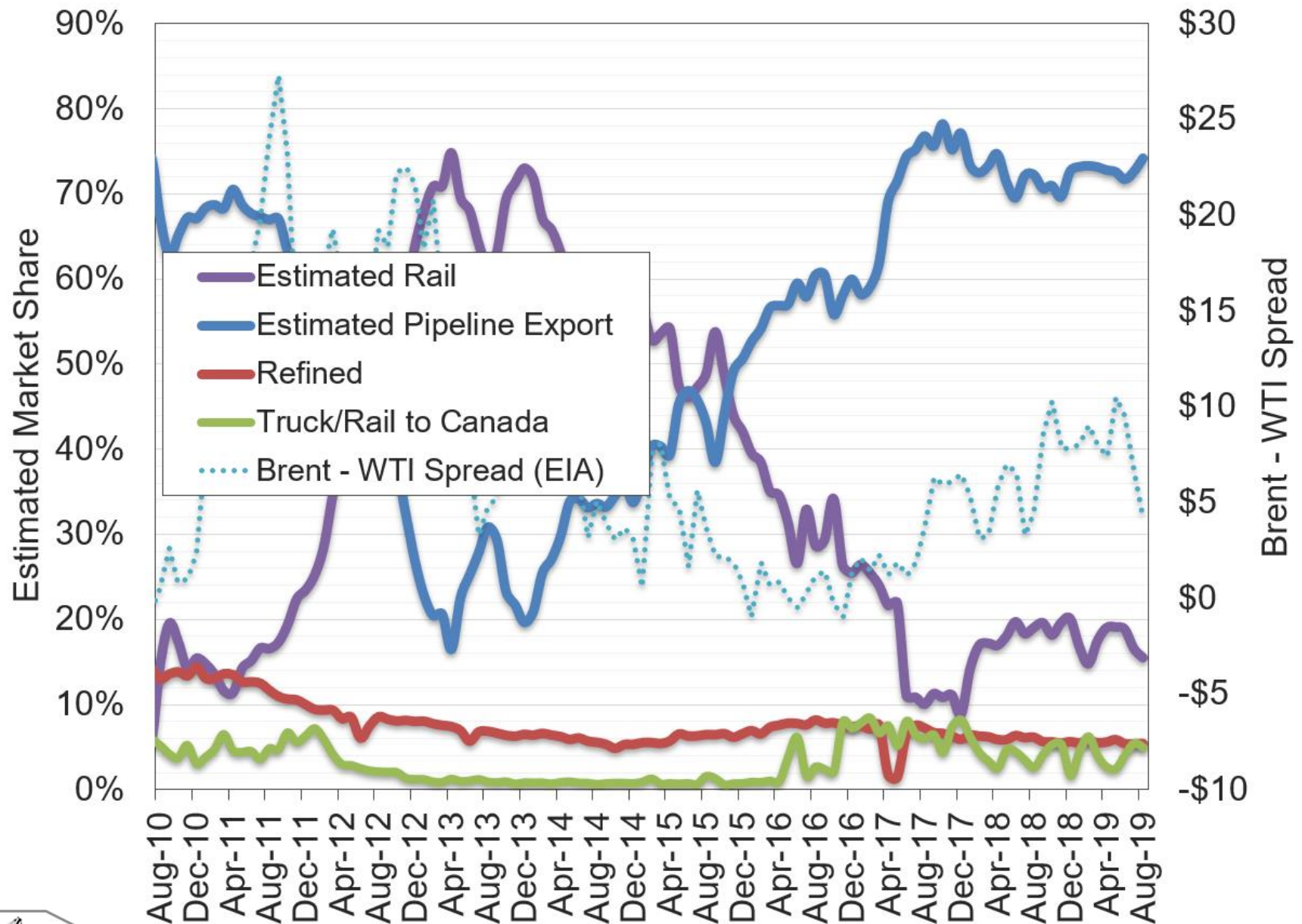


■ Pipeline Export
■ Truck/Rail to Canada

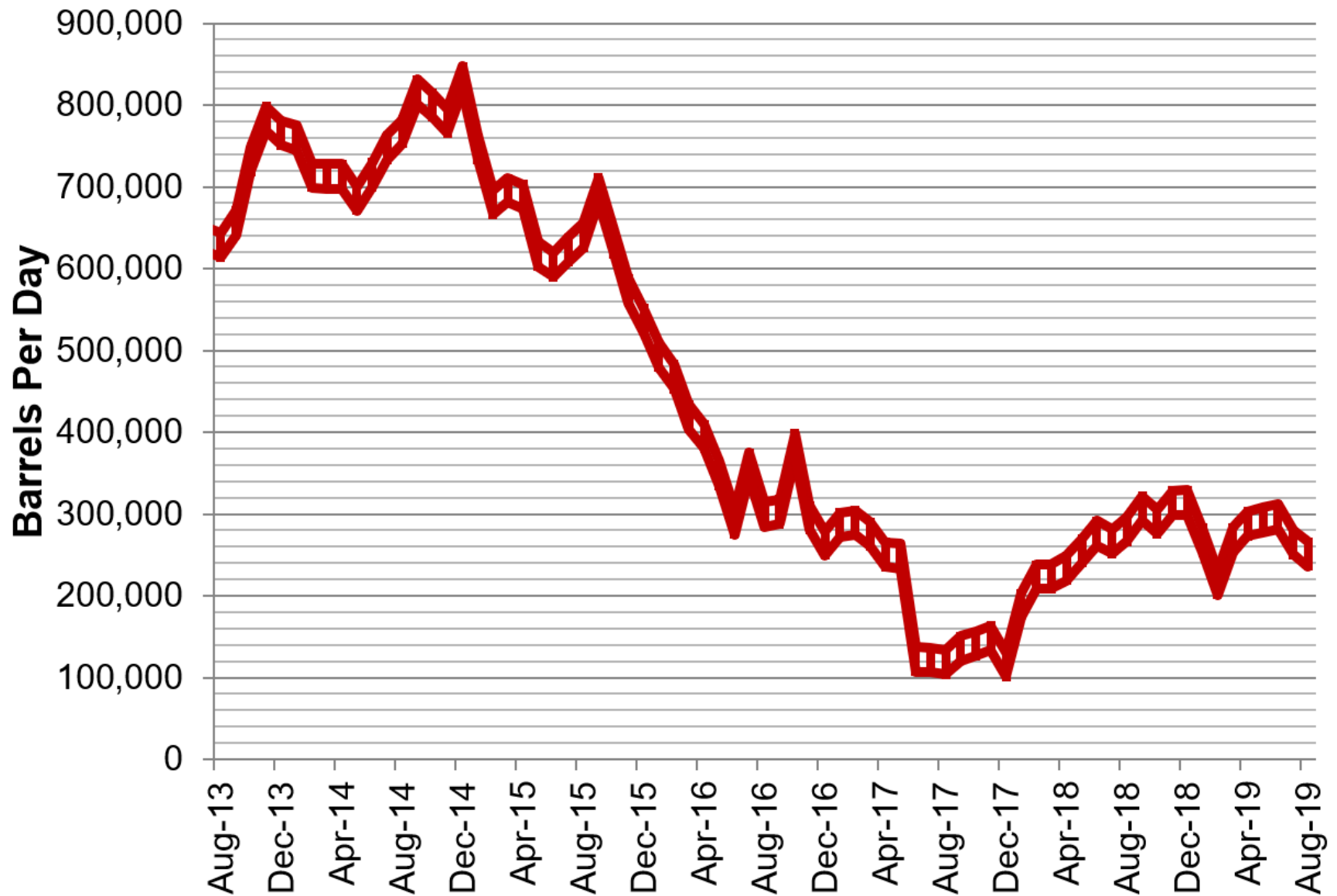
■ Refined
■ Estimated Rail



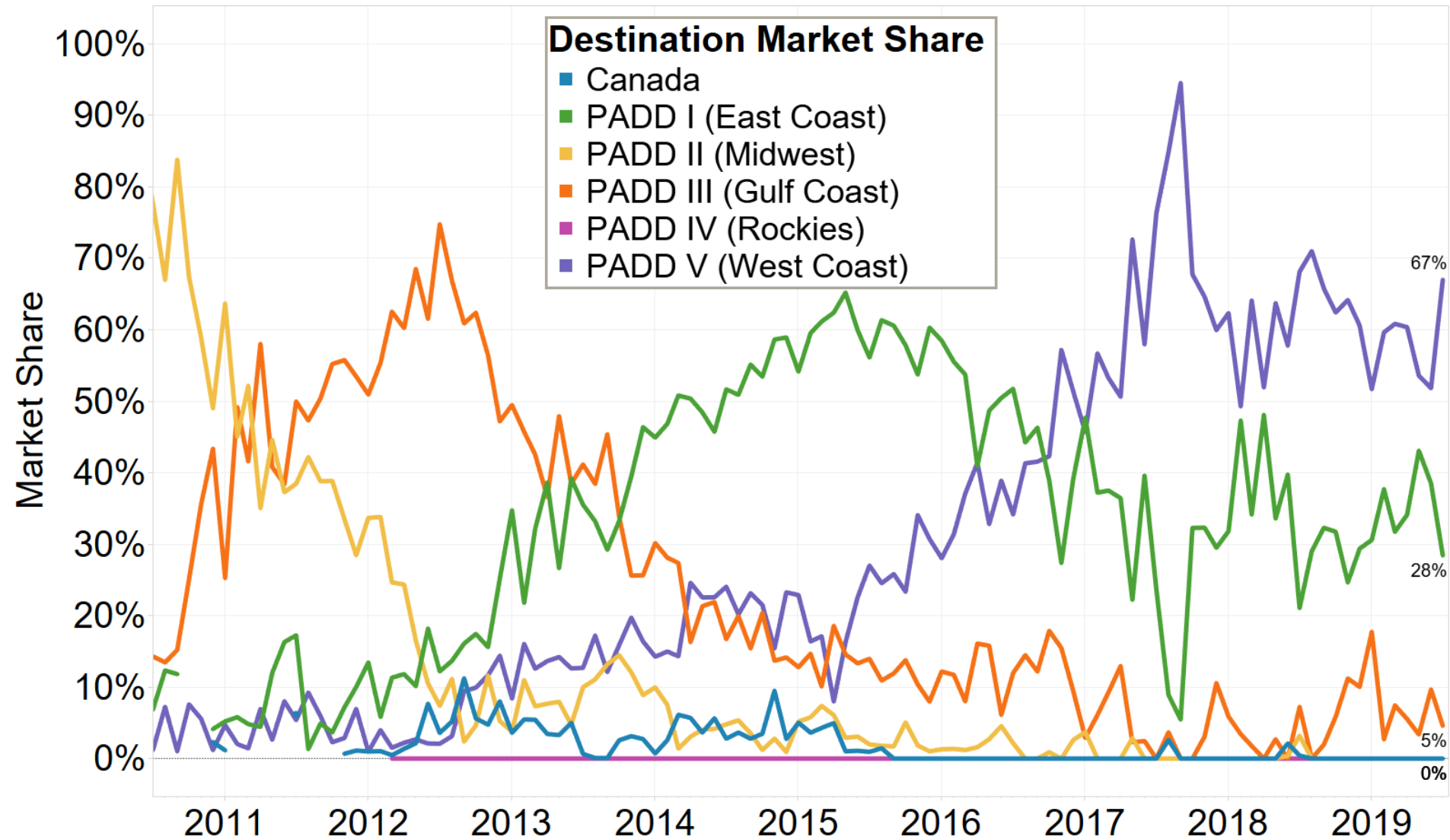
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



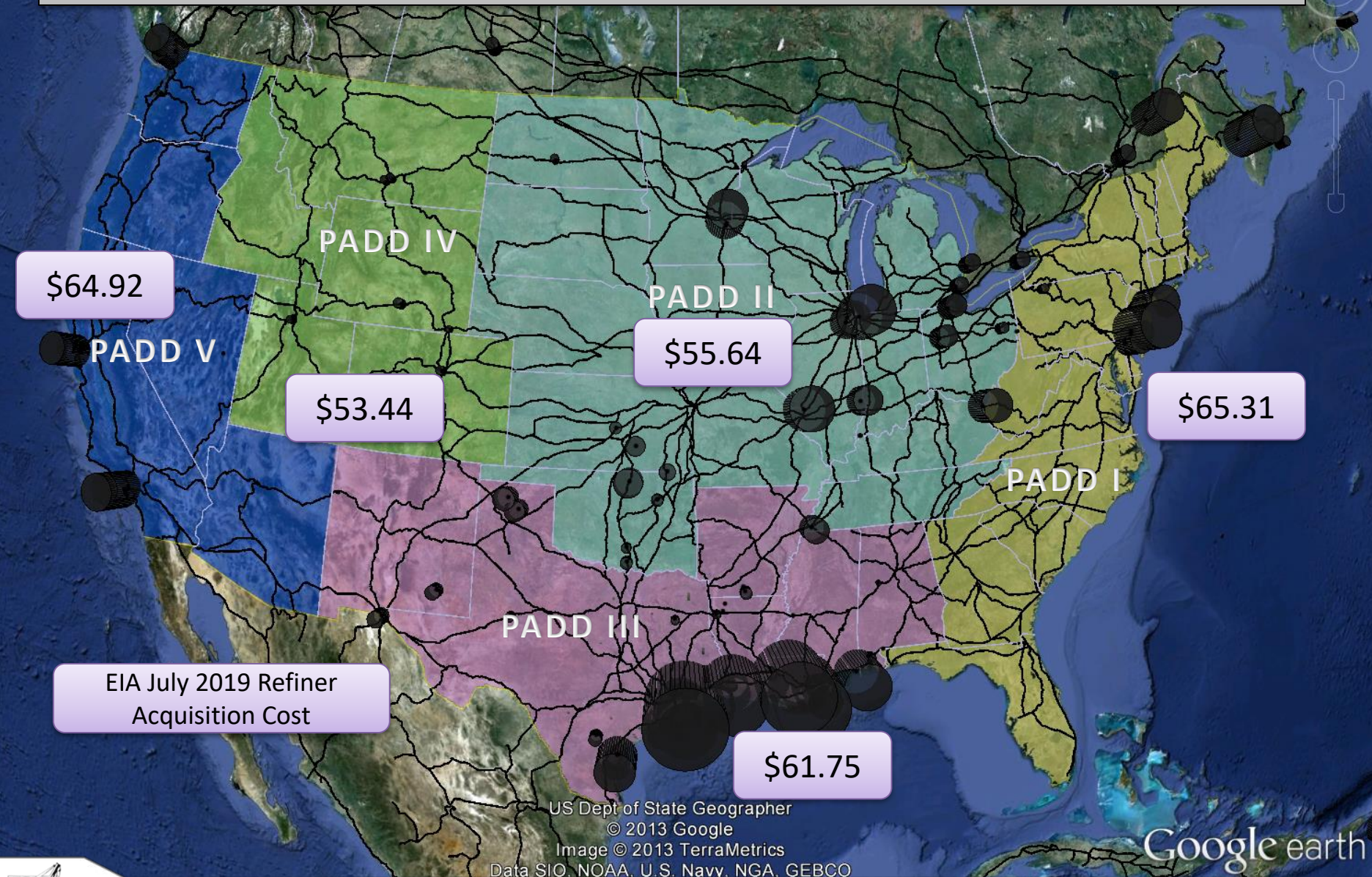
Rail Destinations Market Share (July 2019)



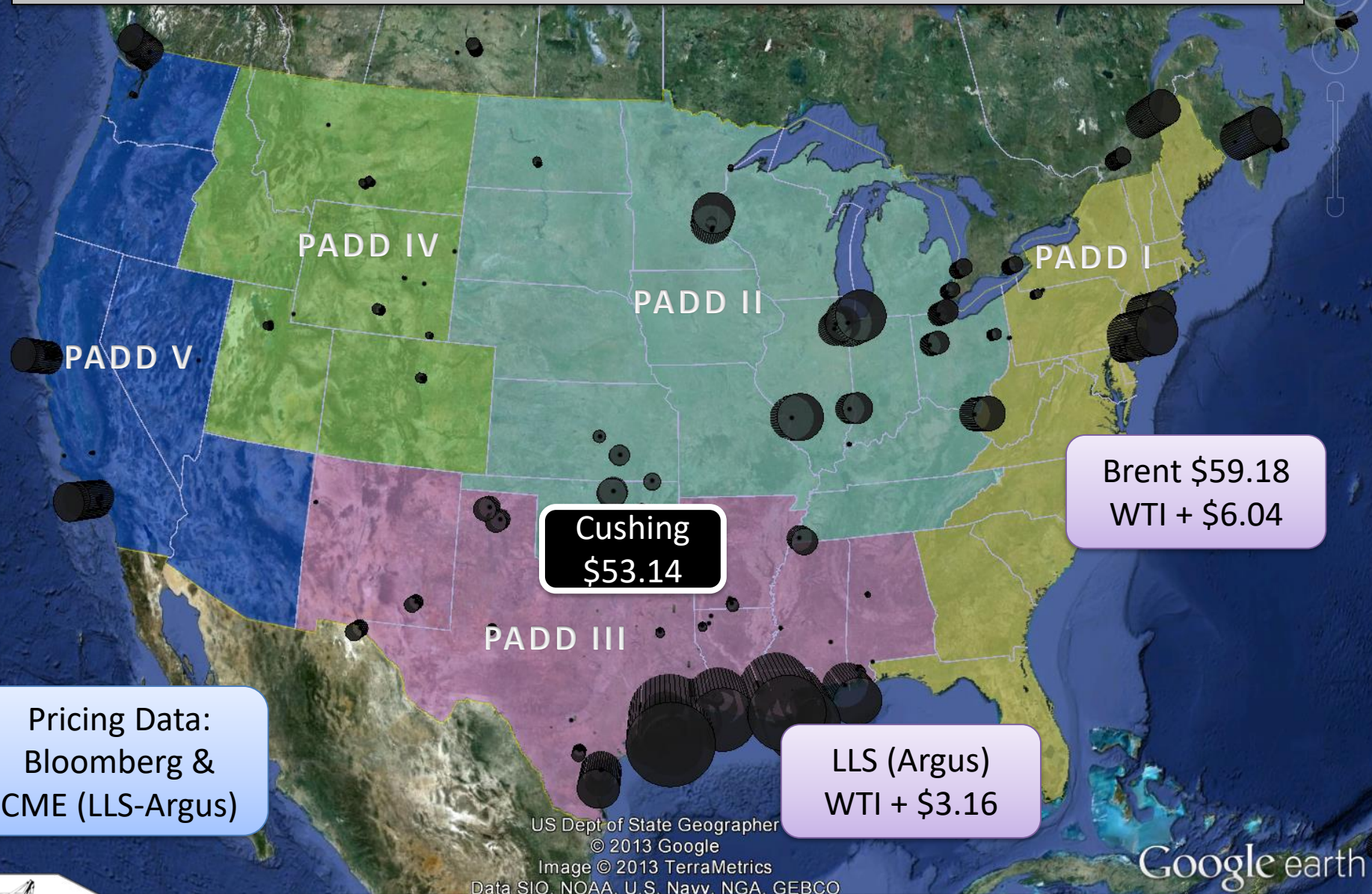
Data for Rail Destination Market Share Provided by the US Energy Information Administration



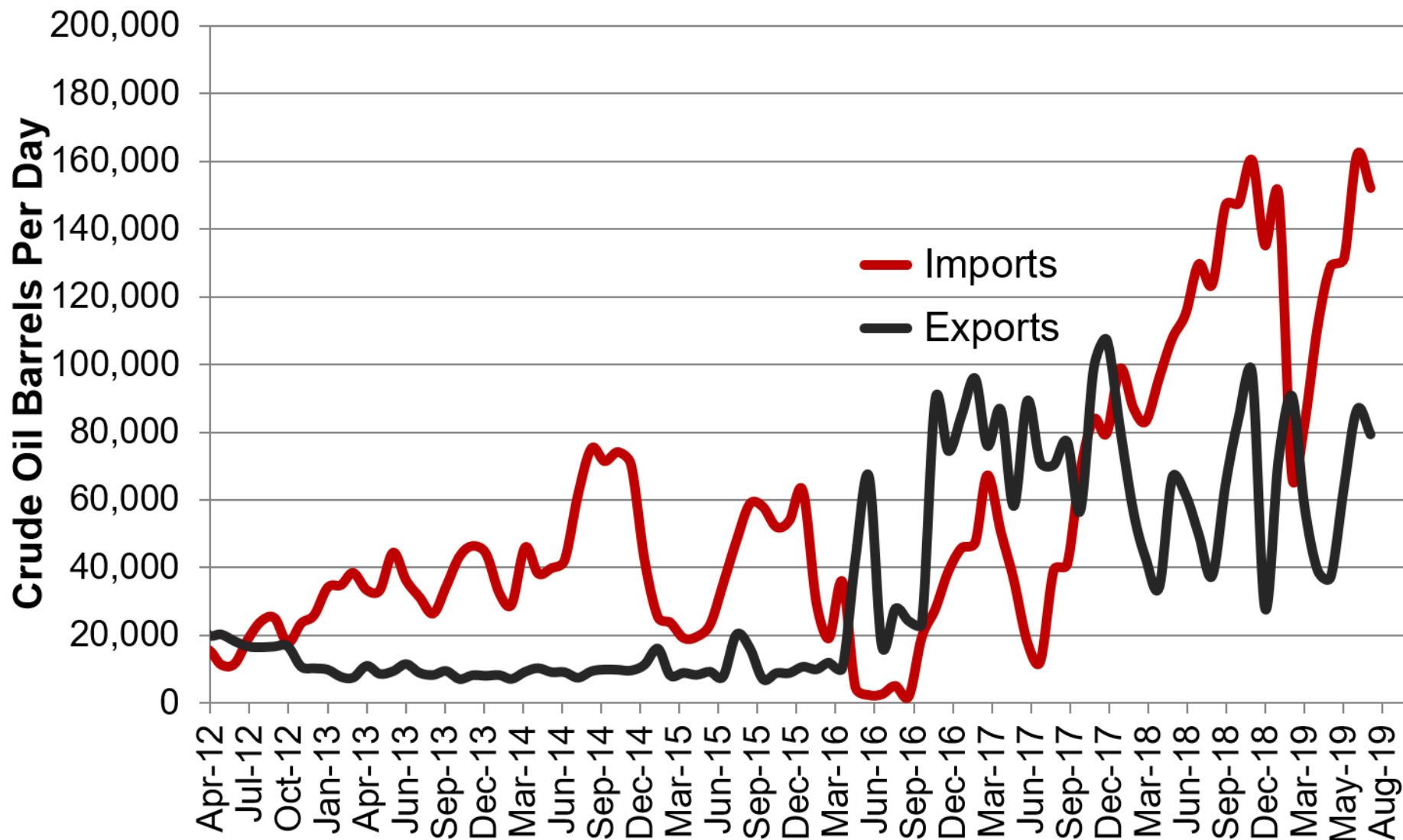
Major Rail Lines and Refineries



Crude Oil Prices – Oct. 17, 2019



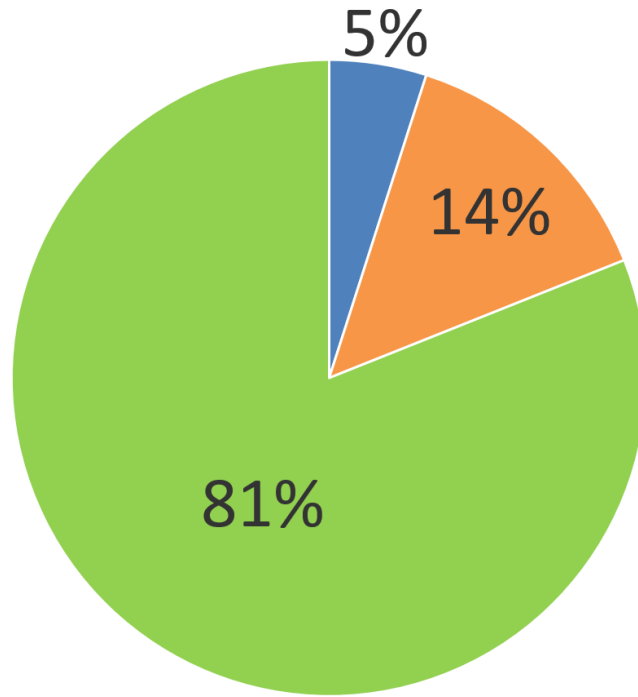
Williston Basin Truck/Rail Imports and Exports with Canada



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.

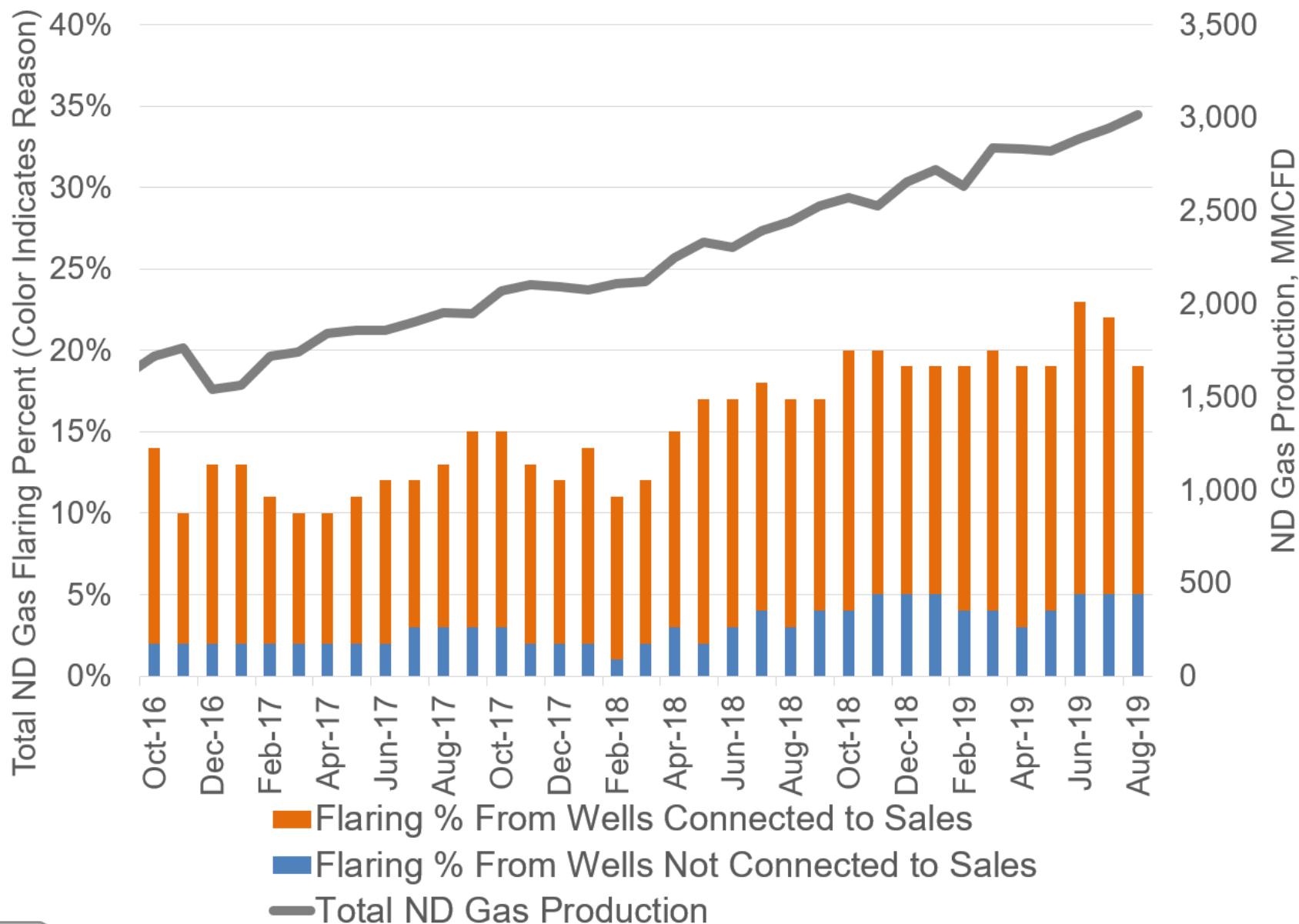
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

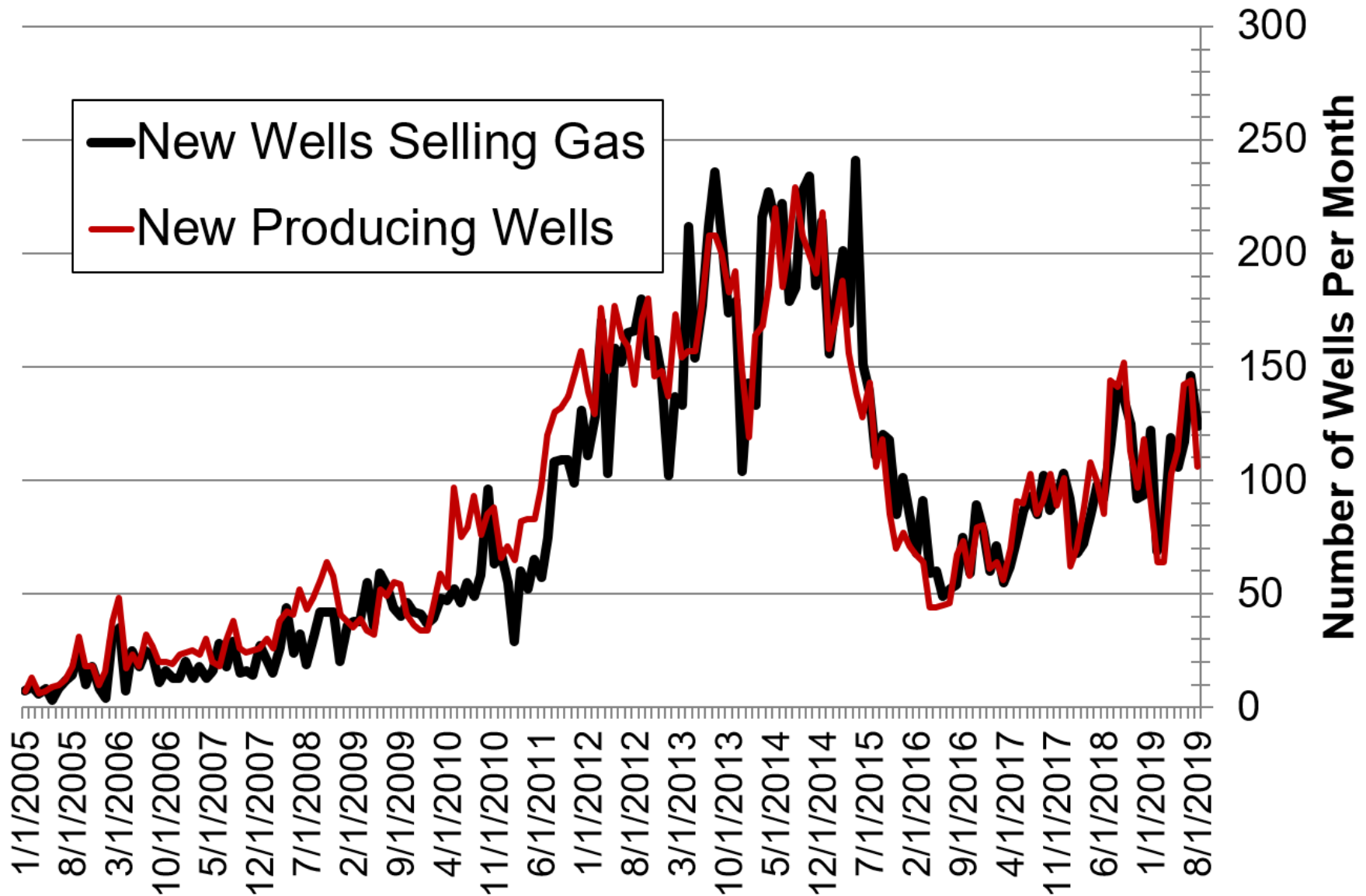
August 2019 Data – Non-Confidential Wells



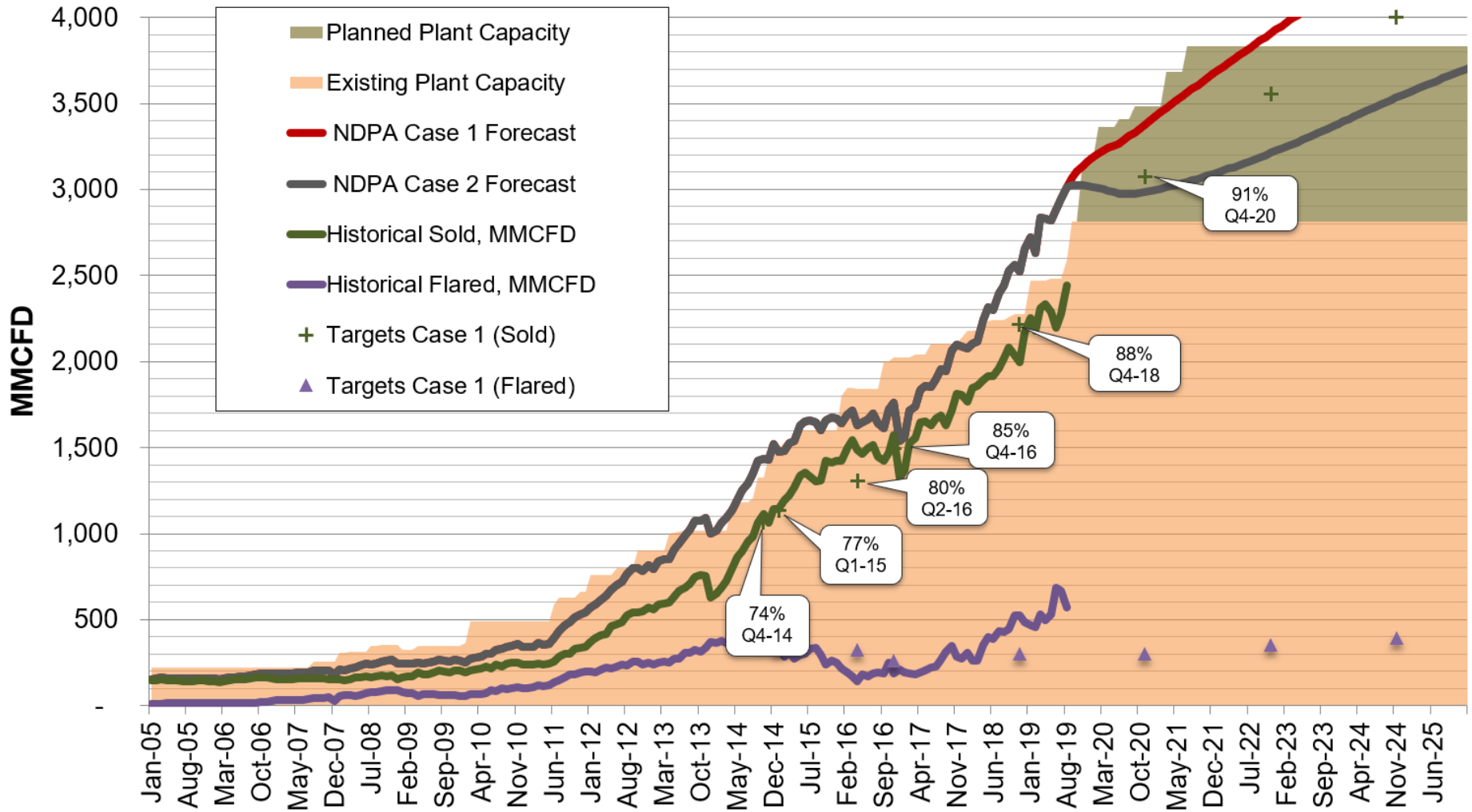
Solving the Flaring Challenge



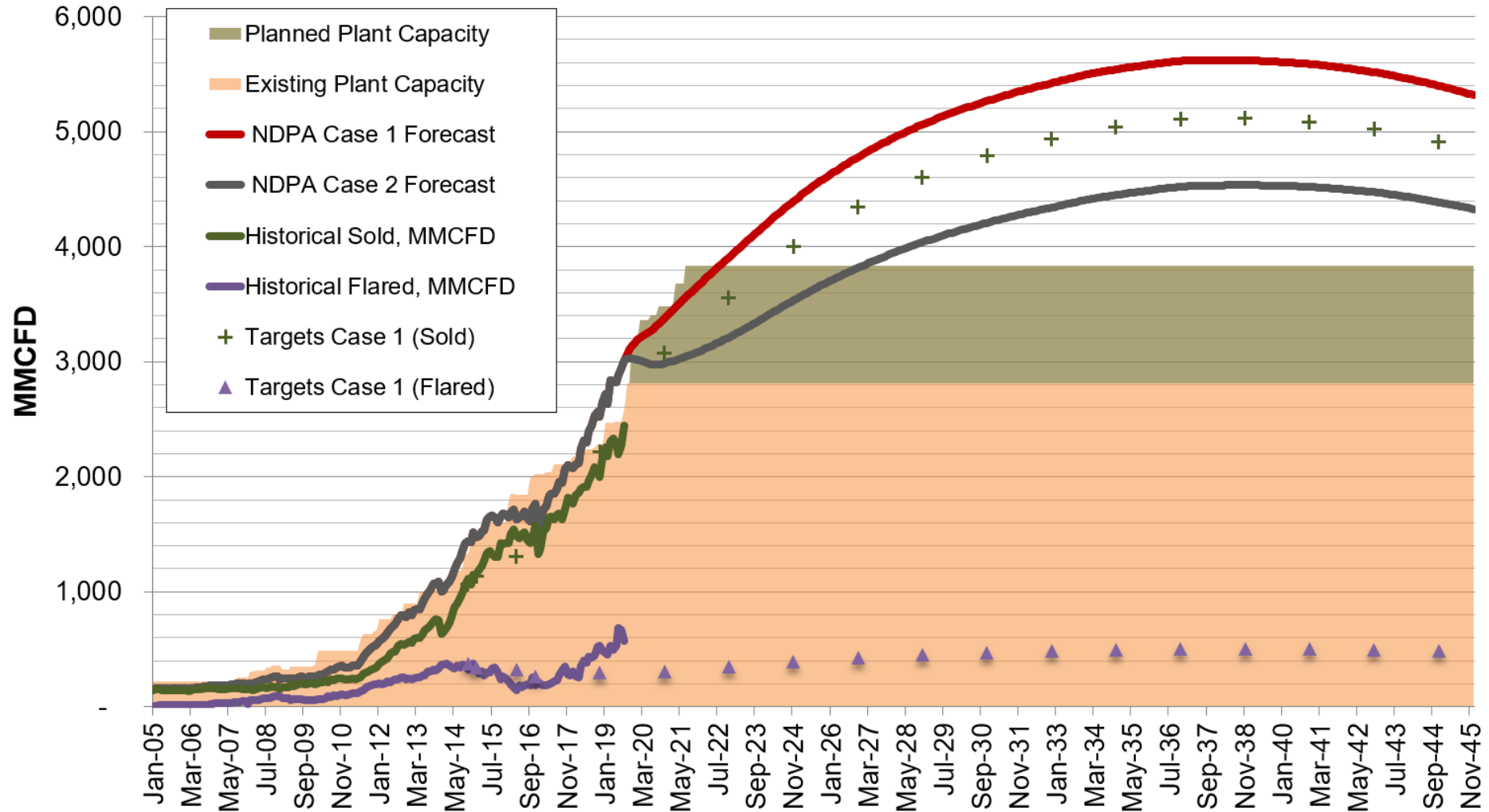
Solving the Flaring Challenge



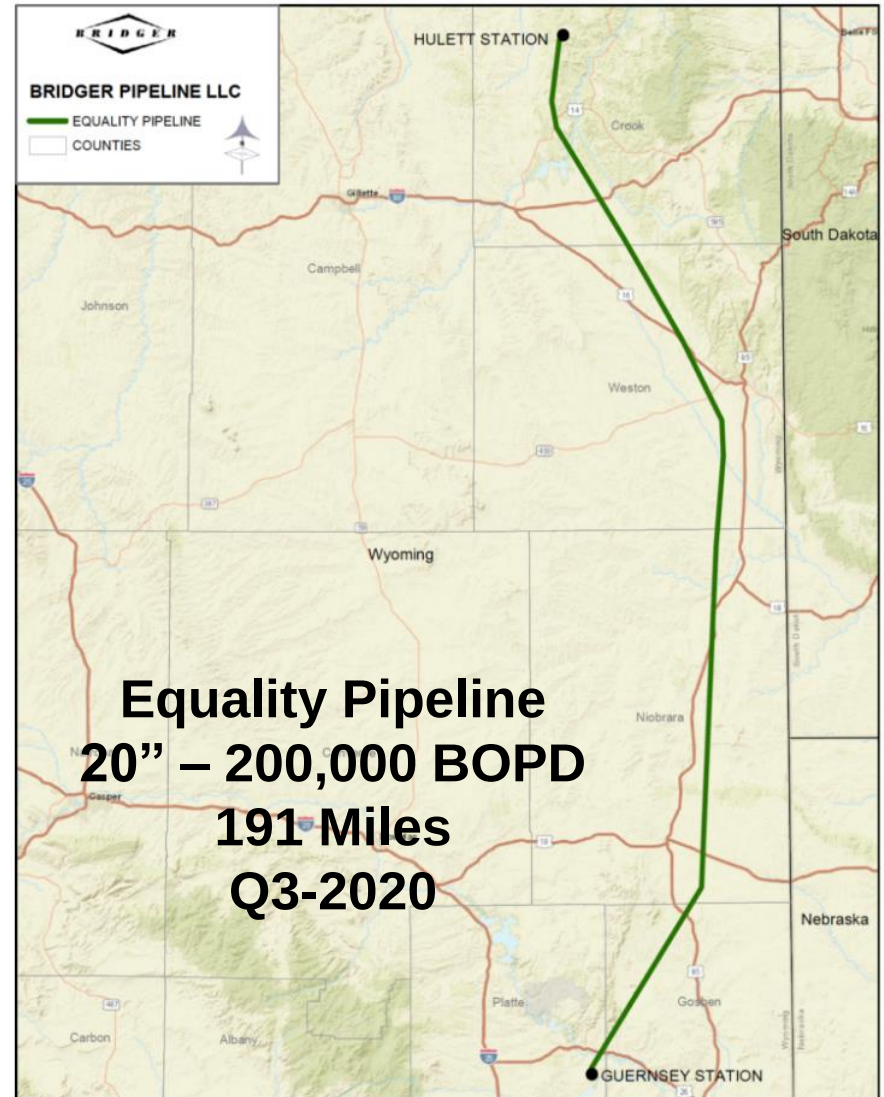
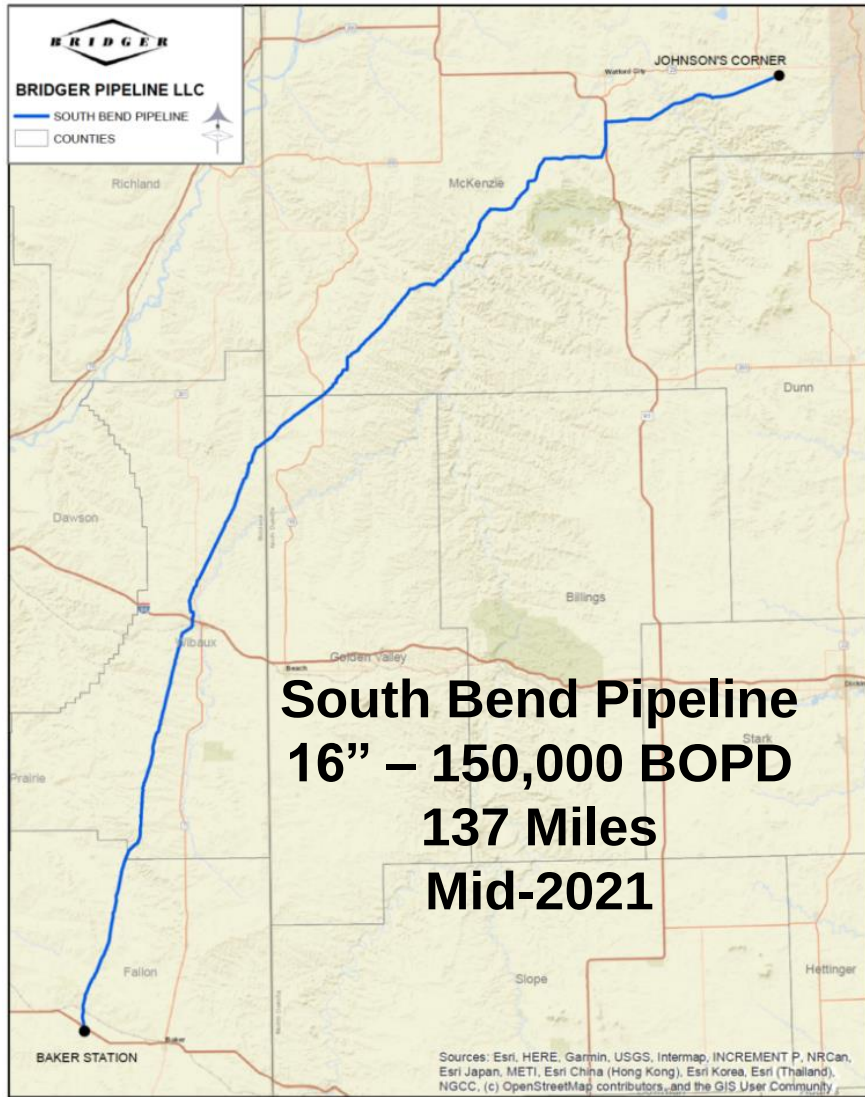
Solving the Flaring Challenge



Solving the Flaring Challenge



Bridger Expansion Project



Contact Information

Justin J. Kringstad, Director
North Dakota Pipeline Authority

600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Phone: (701)220-6227

Fax: (701)328-2820

E-mail: jjkringstad@ndpipelines.com

Websites:

www.pipeline.nd.gov

www.northdakotapipelines.com



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