



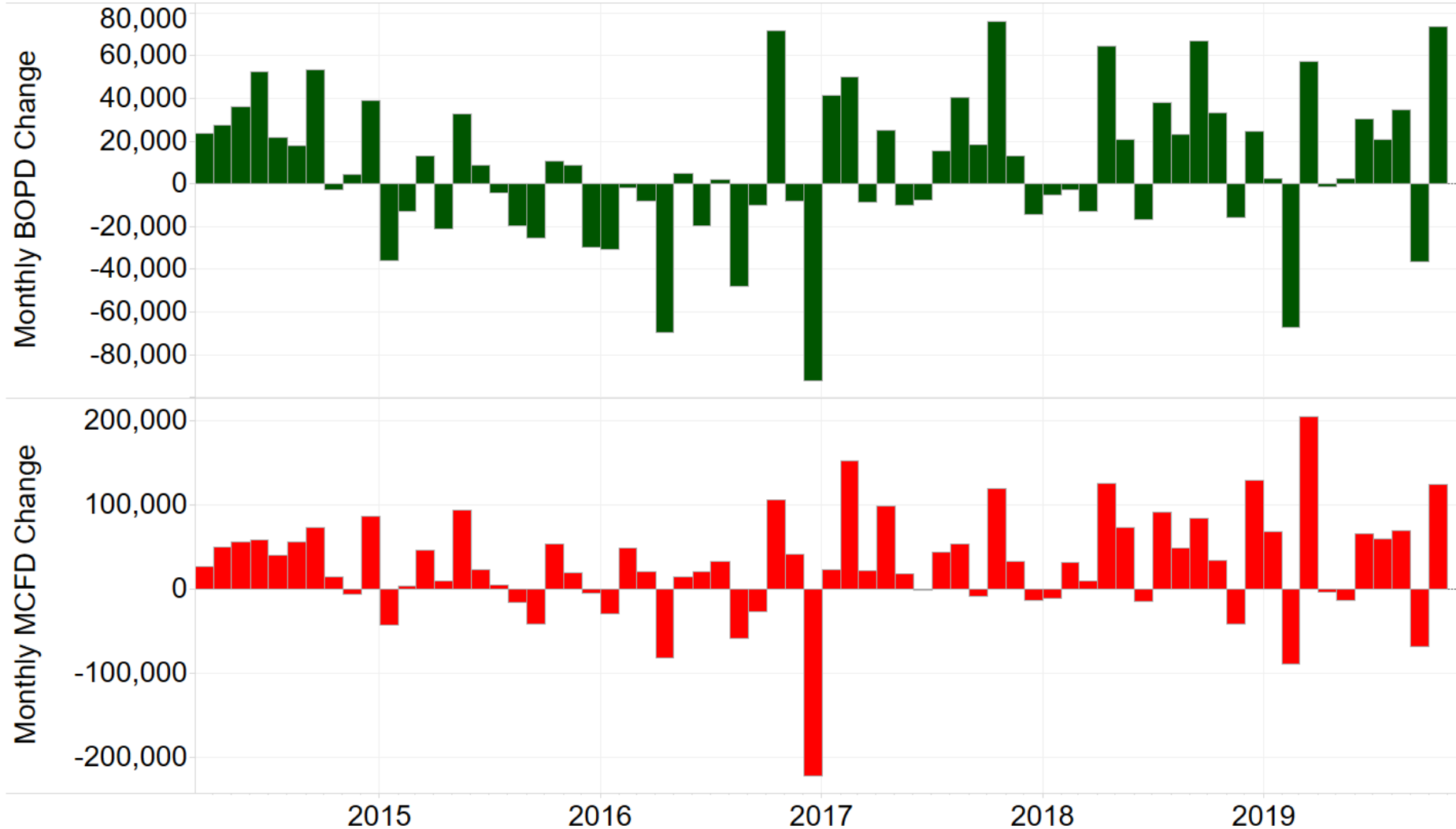
December 2019 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
December 13, 2019

US Williston Basin Oil Production - 2019

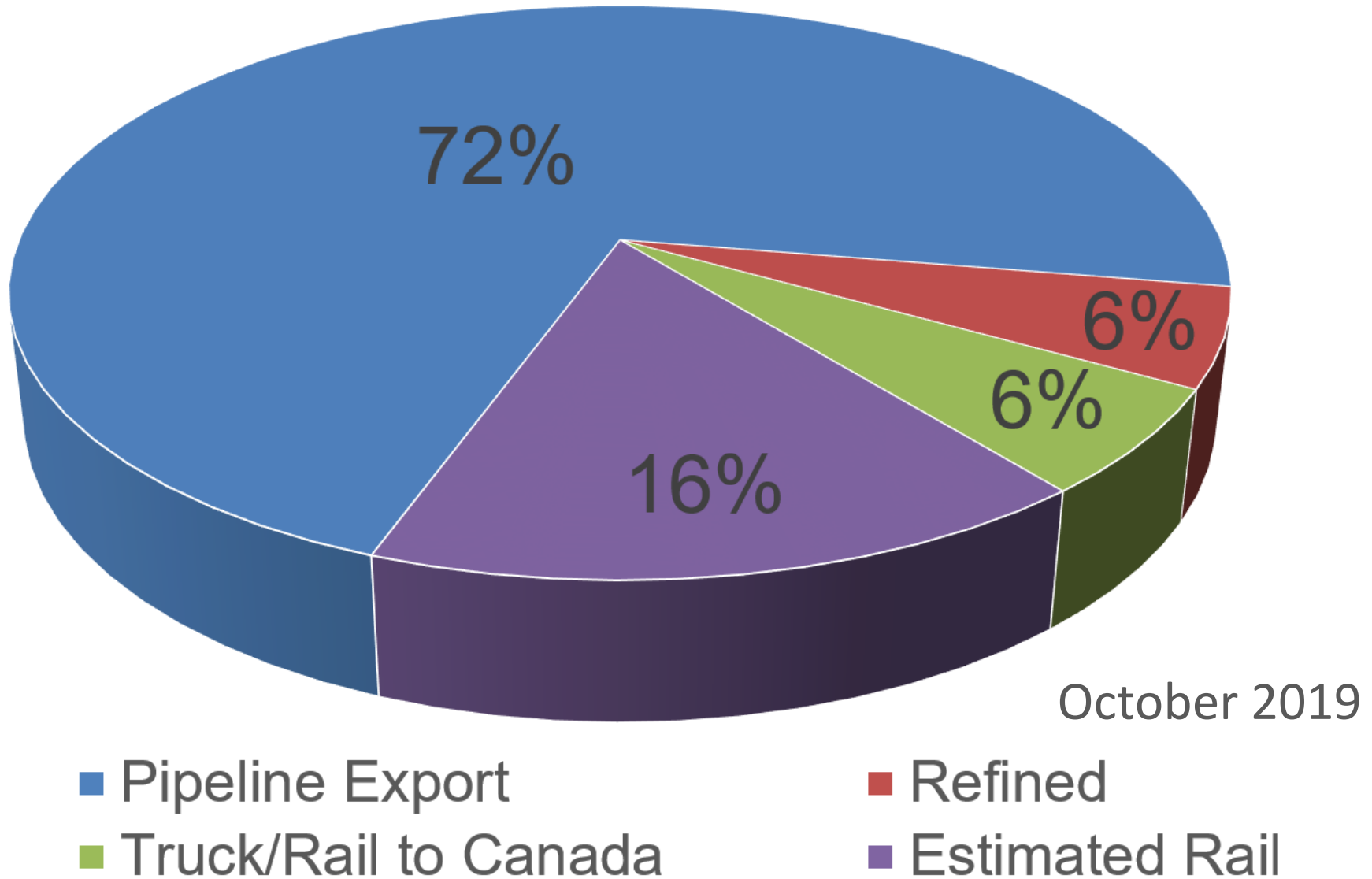
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,403,887	57,565	3,276	1,464,728
February	1,336,672	54,660	3,339	1,394,671
March	1,394,130	56,222	3,256	1,453,608
April	1,392,578	57,678	3,231	1,453,486
May	1,395,029	53,945	3,092	1,452,066
June	1,425,263	47,747	3,122	1,476,132
July	1,445,865	44,687	3,128	1,451,994
August	1,480,475		3,124	
September	1,443,980		3,059	
October	1,517,796			
November				
December				



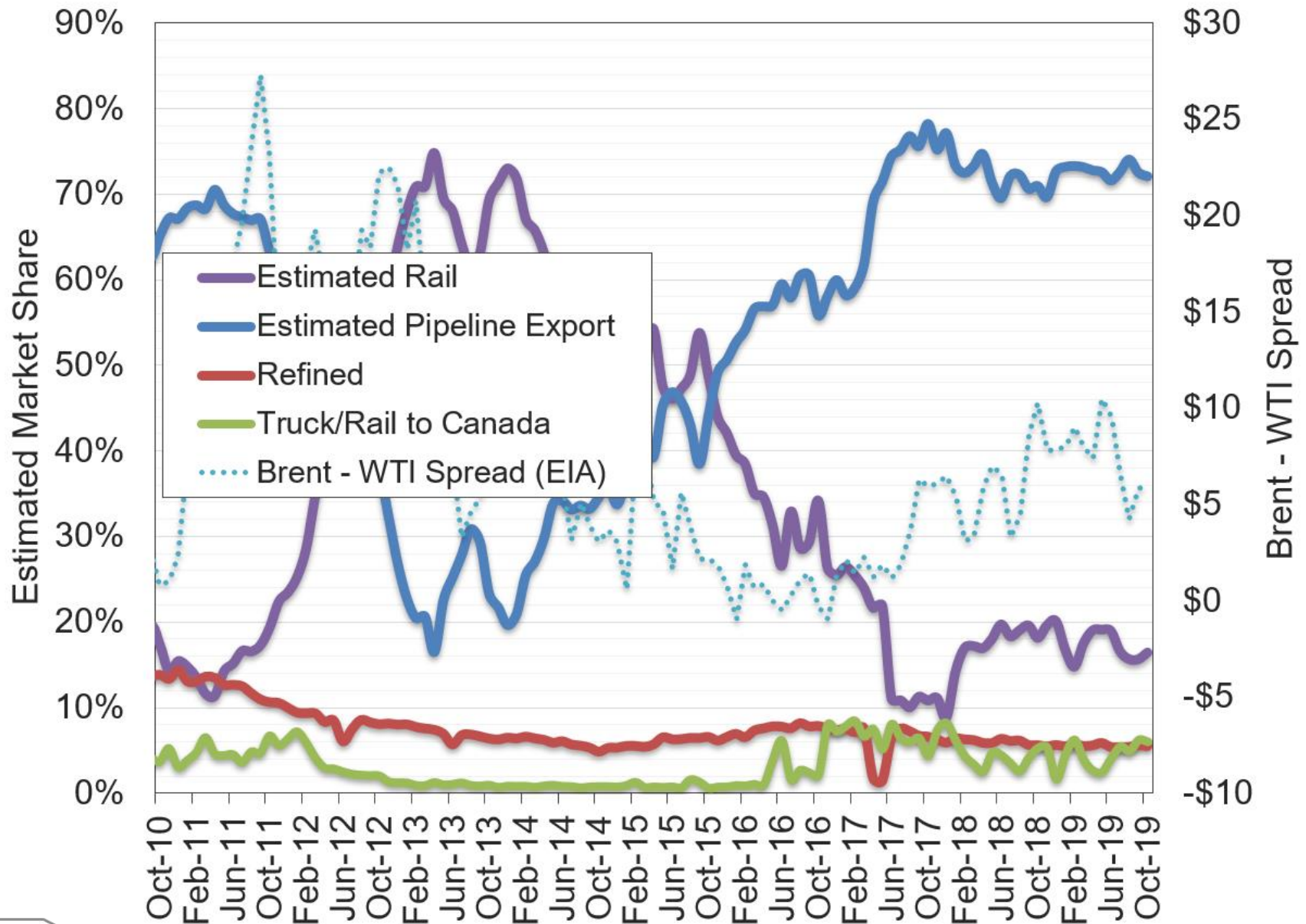
Monthly Production Change



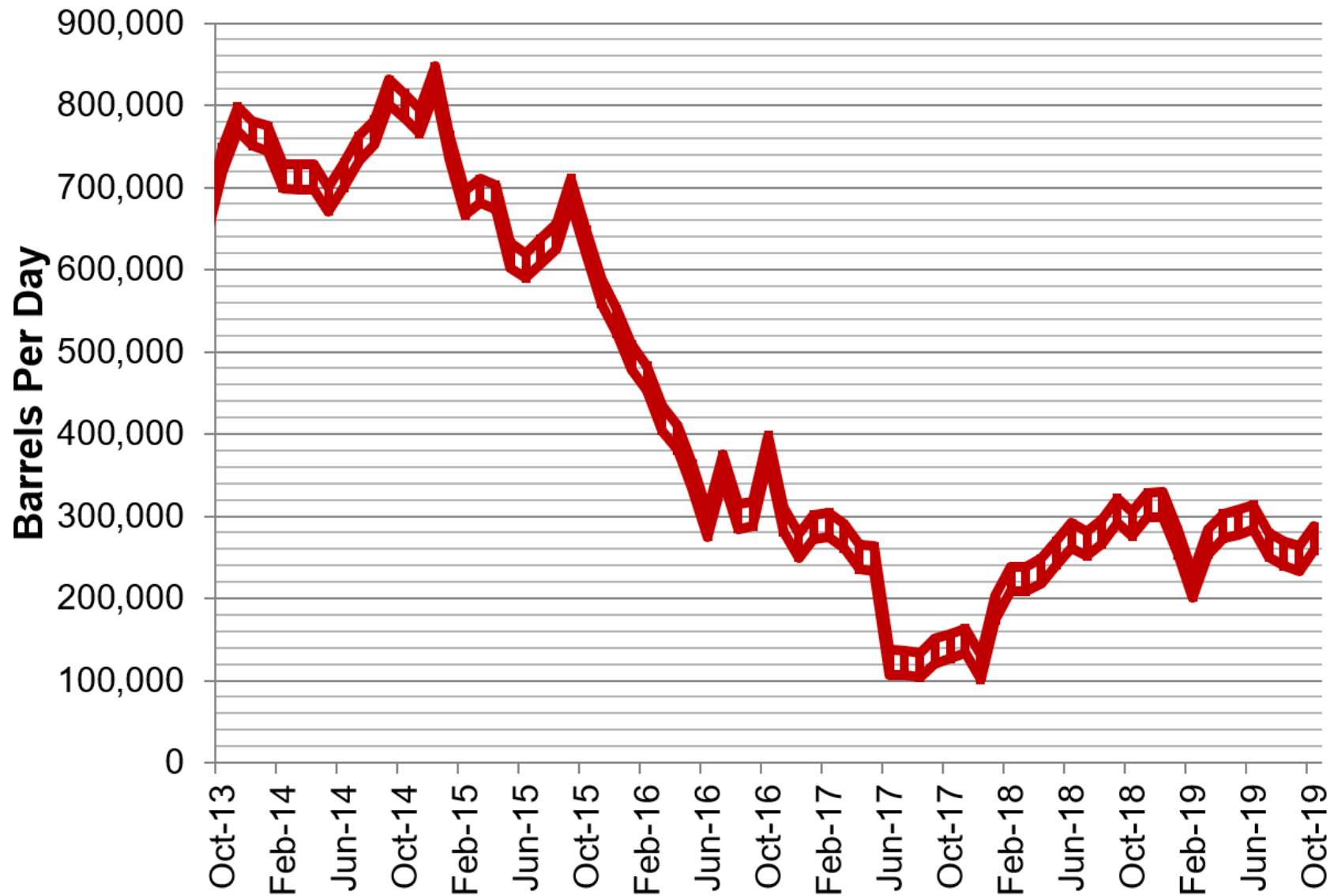
Estimated Williston Basin Oil Transportation



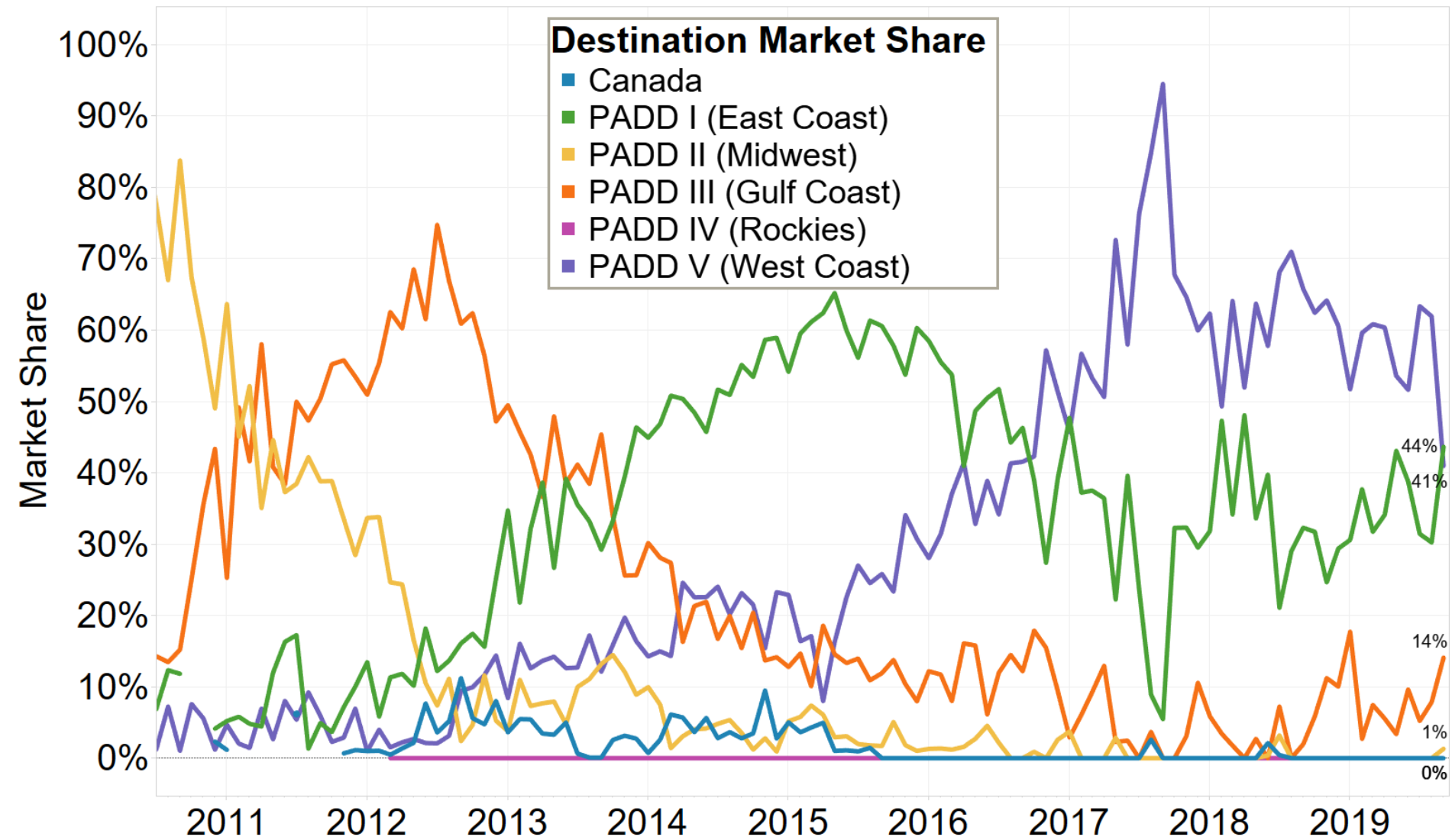
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



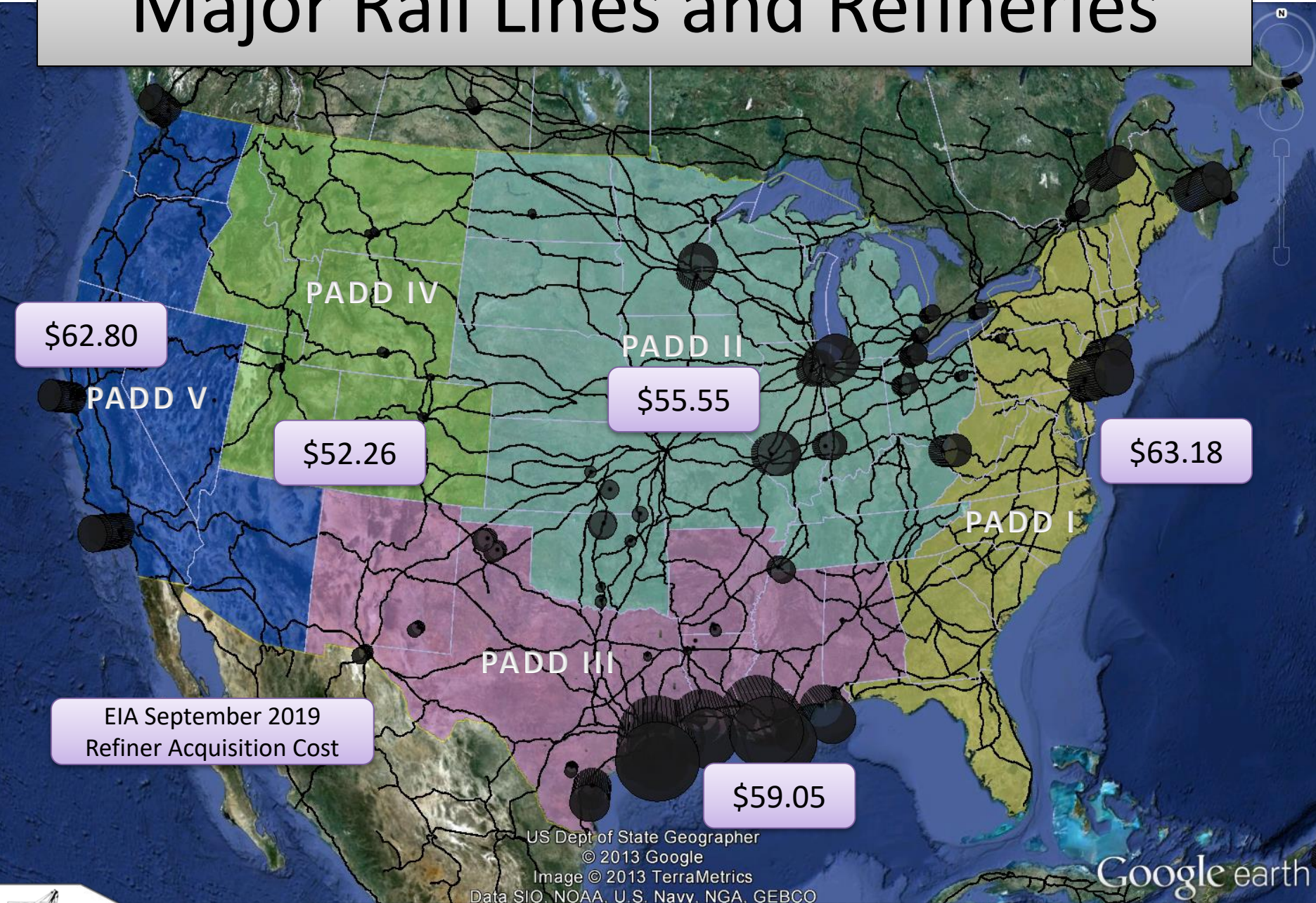
Rail Destinations Market Share (Sep 2019)



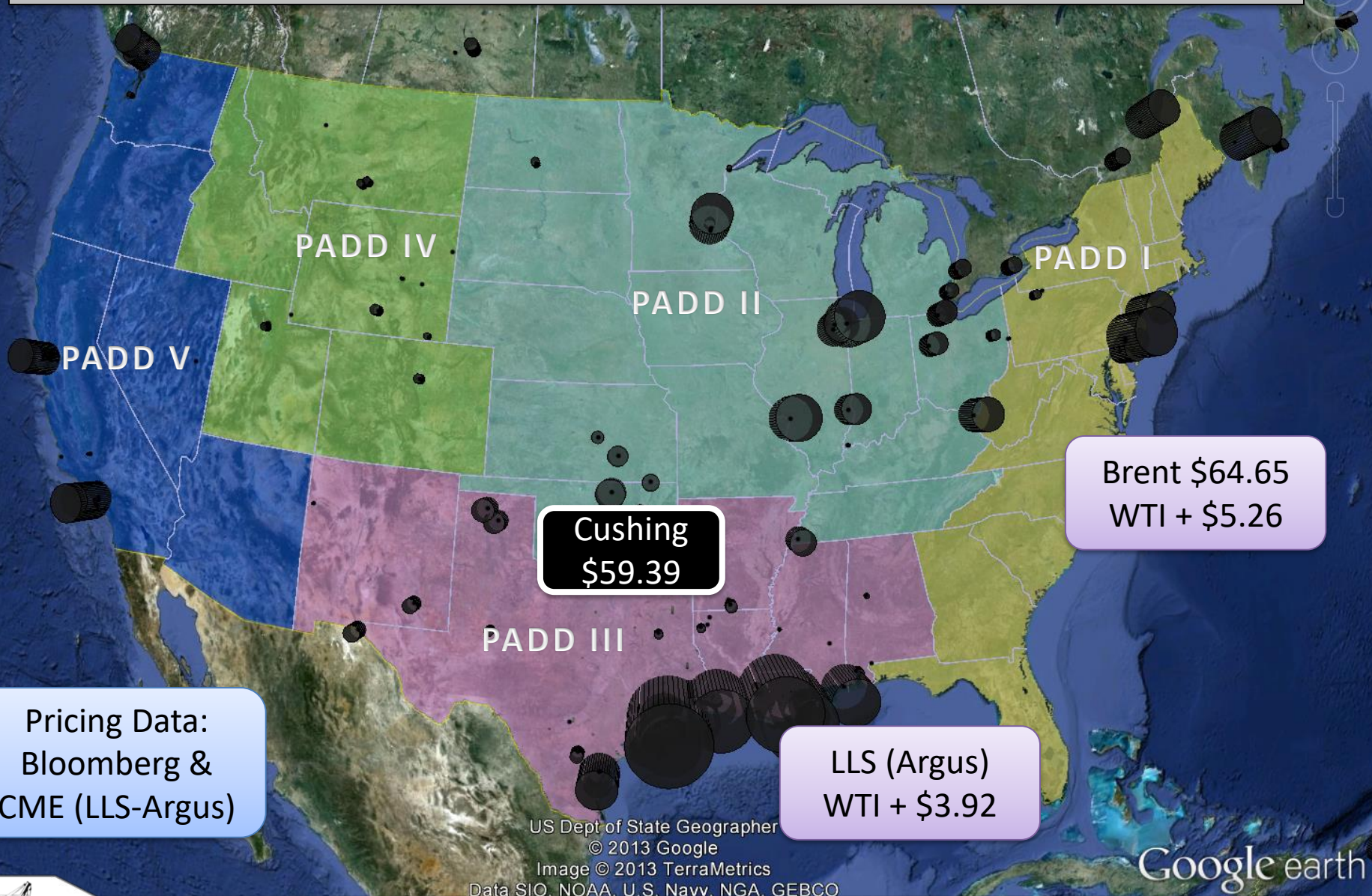
Data for Rail Destination Market Share Provided by the US Energy Information Administration



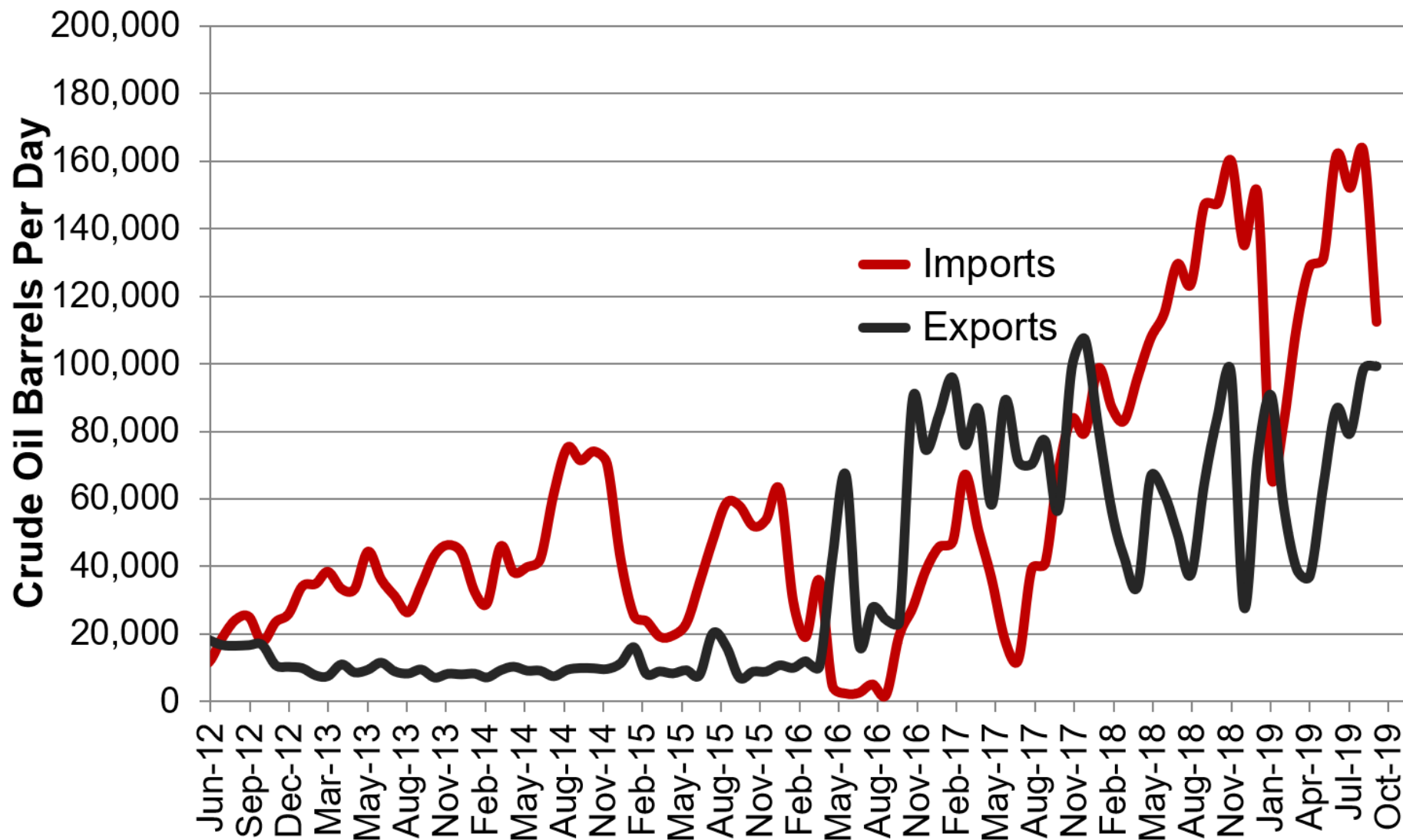
Major Rail Lines and Refineries



Crude Oil Prices – Dec. 13, 2019



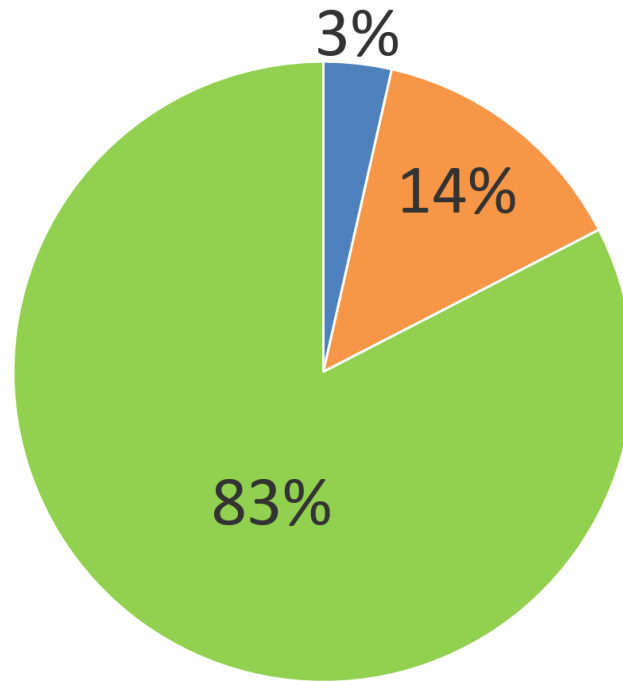
Williston Basin Truck/Rail Imports and Exports with Canada



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.

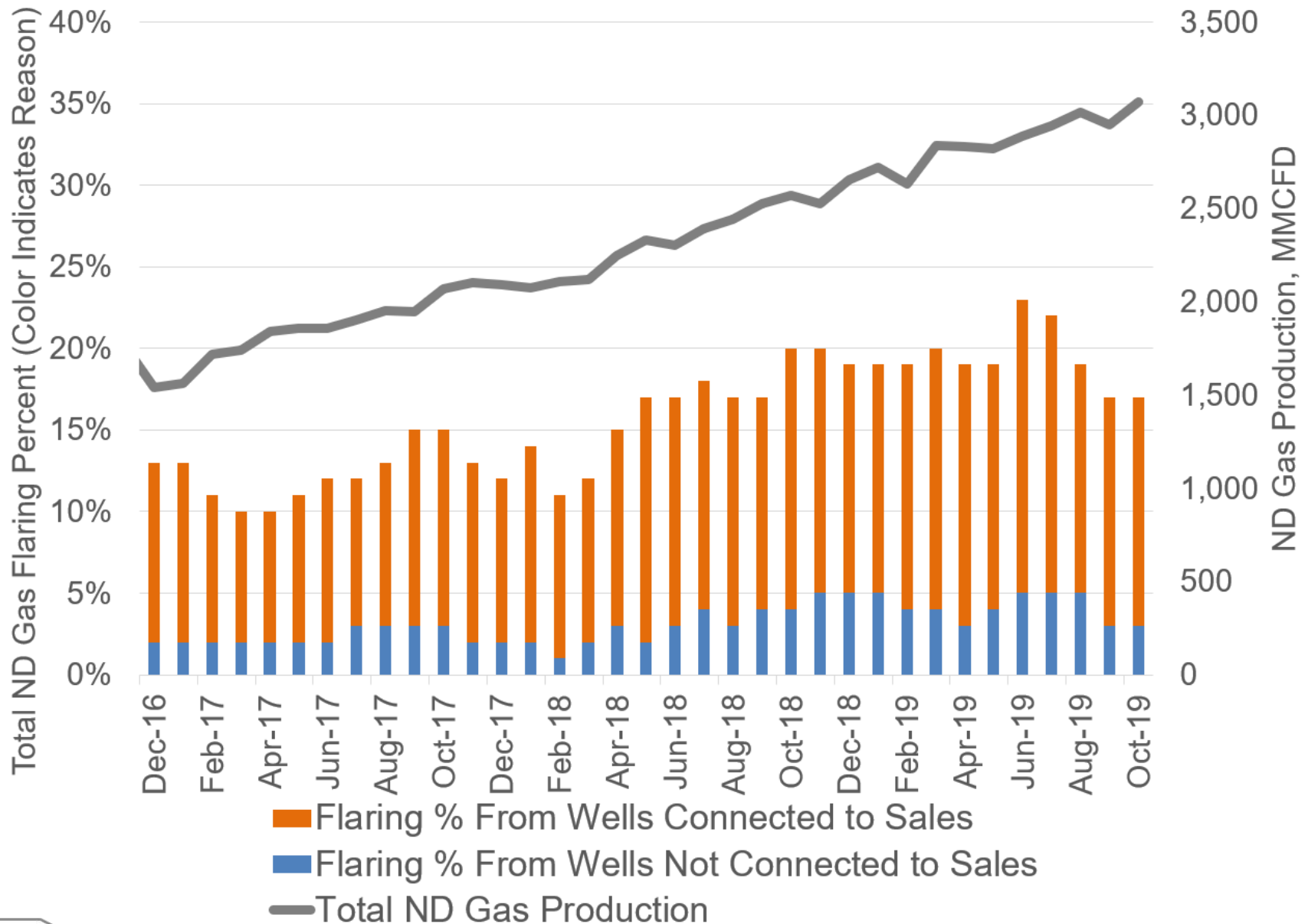
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

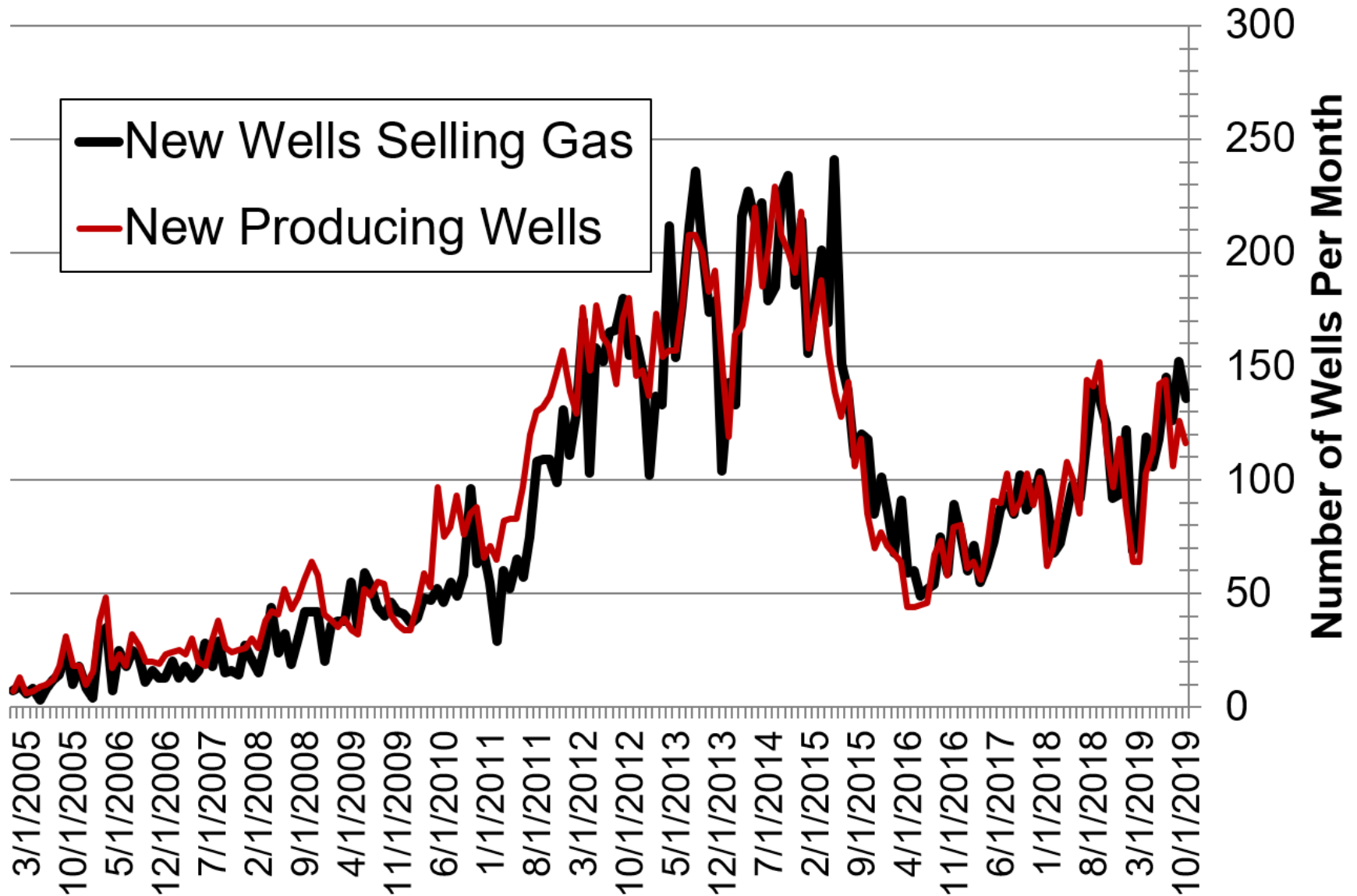
Oct. 2019 Data – Non-Confidential Wells



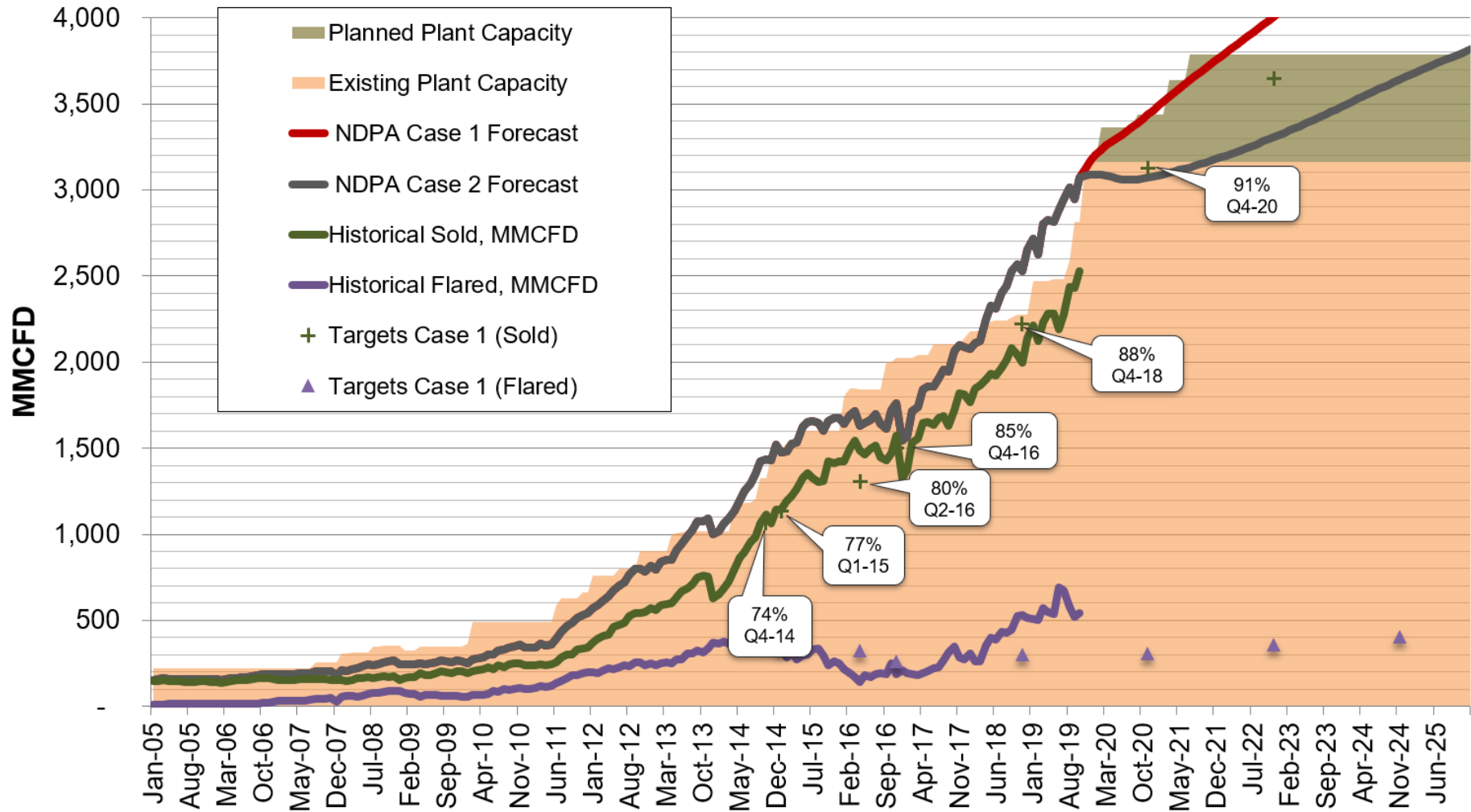
Solving the Flaring Challenge



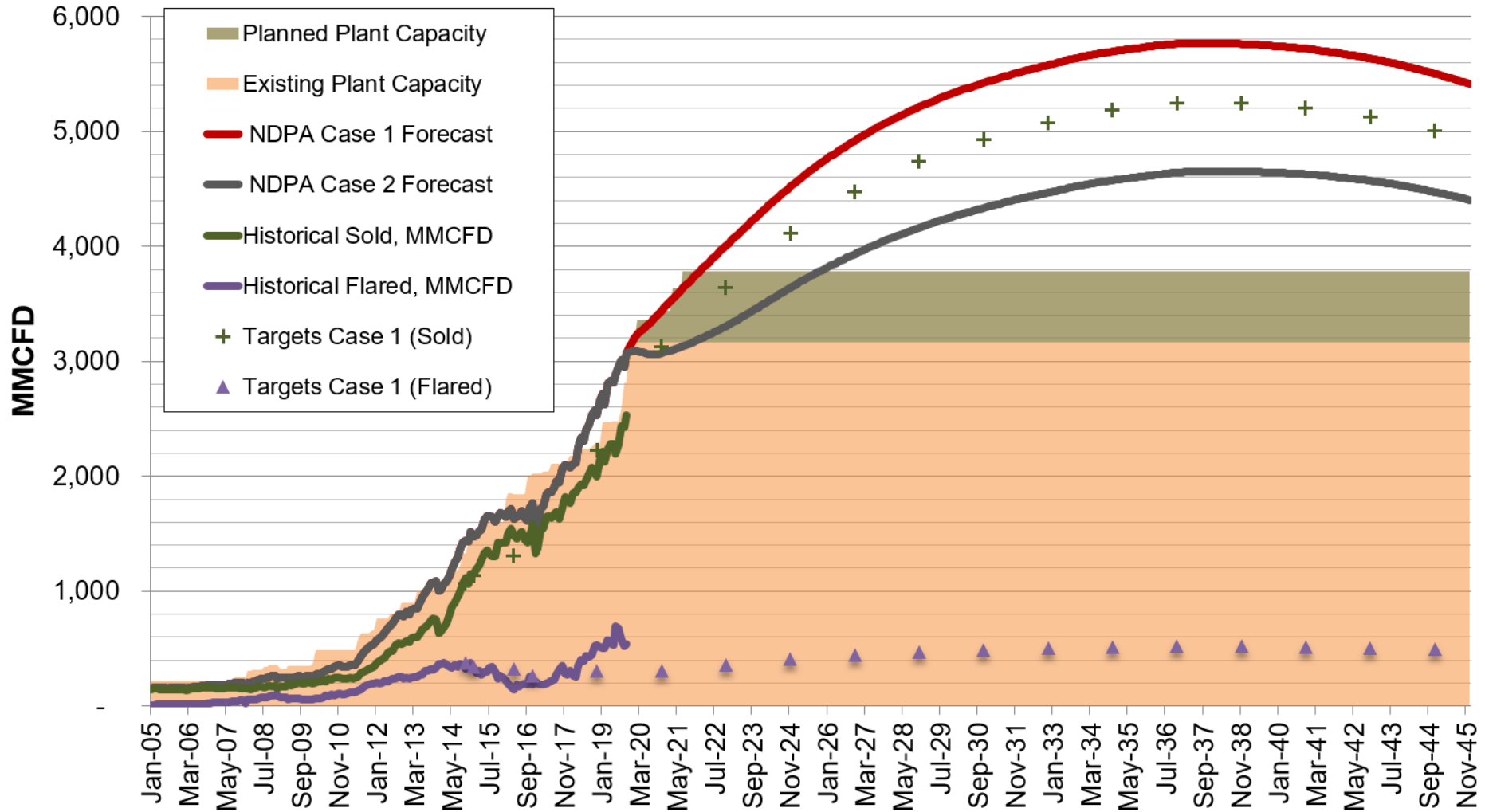
Solving the Flaring Challenge



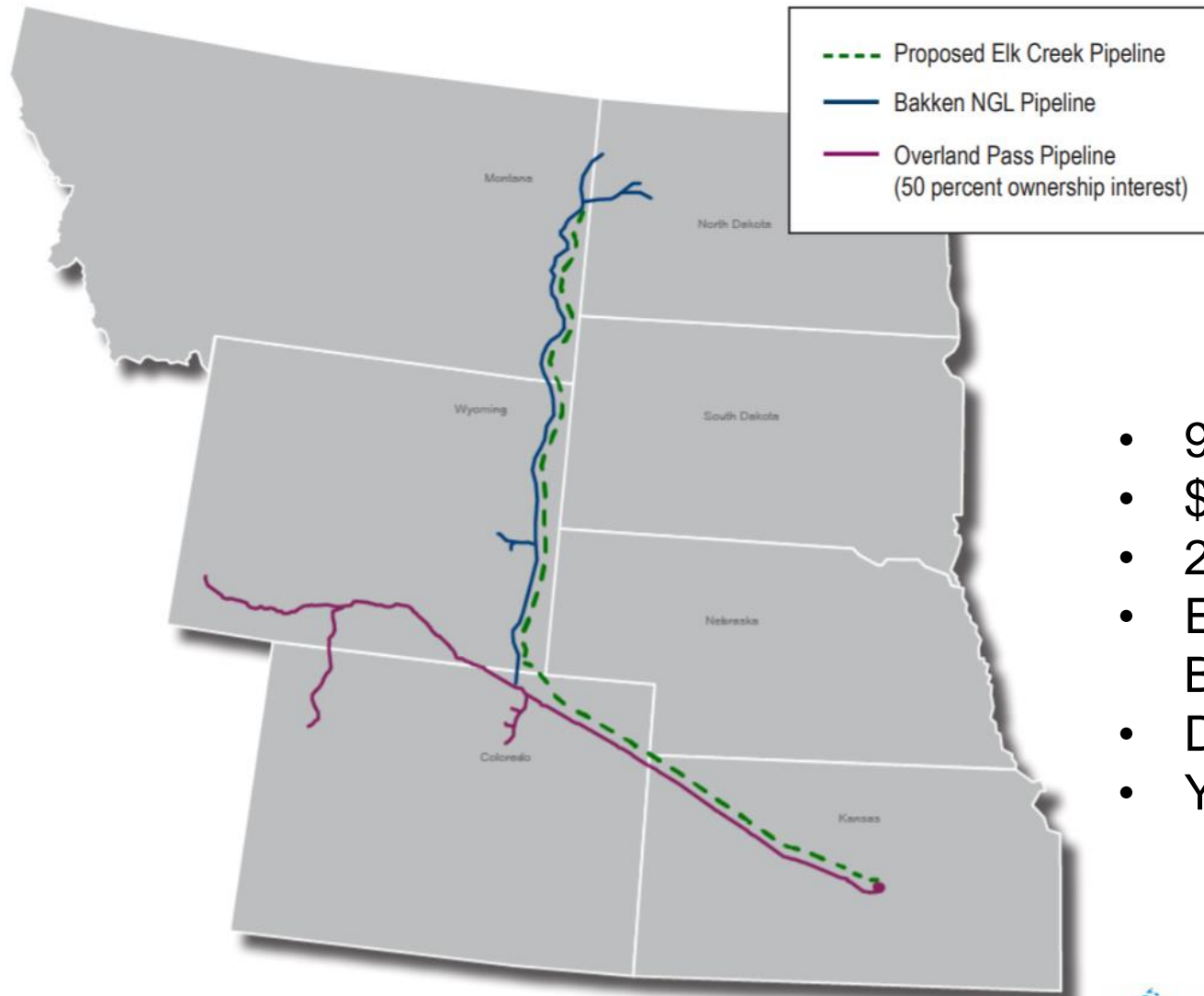
Solving the Flaring Challenge



Solving the Flaring Challenge



ONEOK Elk Creek NGL Pipeline



Project Highlights

- 900 Miles - 20" Pipeline
- \$1.4 Billion
- 240,000 BPD Capacity
- Expandable to 400,000 BPD
- Dec 2019 In-Service
- Y-Grade Transportation



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