



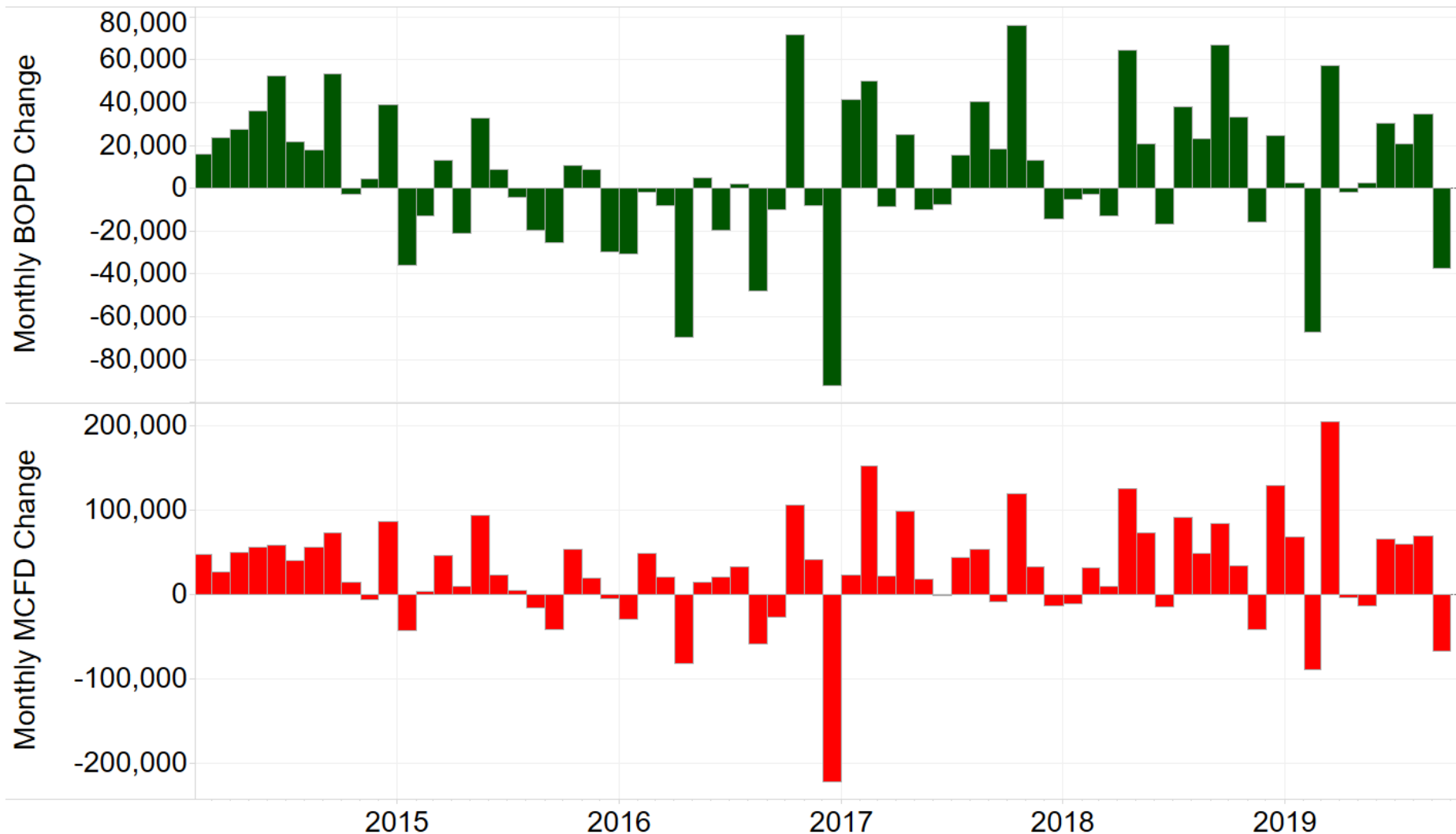
November 2019 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
November 19, 2019

US Williston Basin Oil Production - 2019

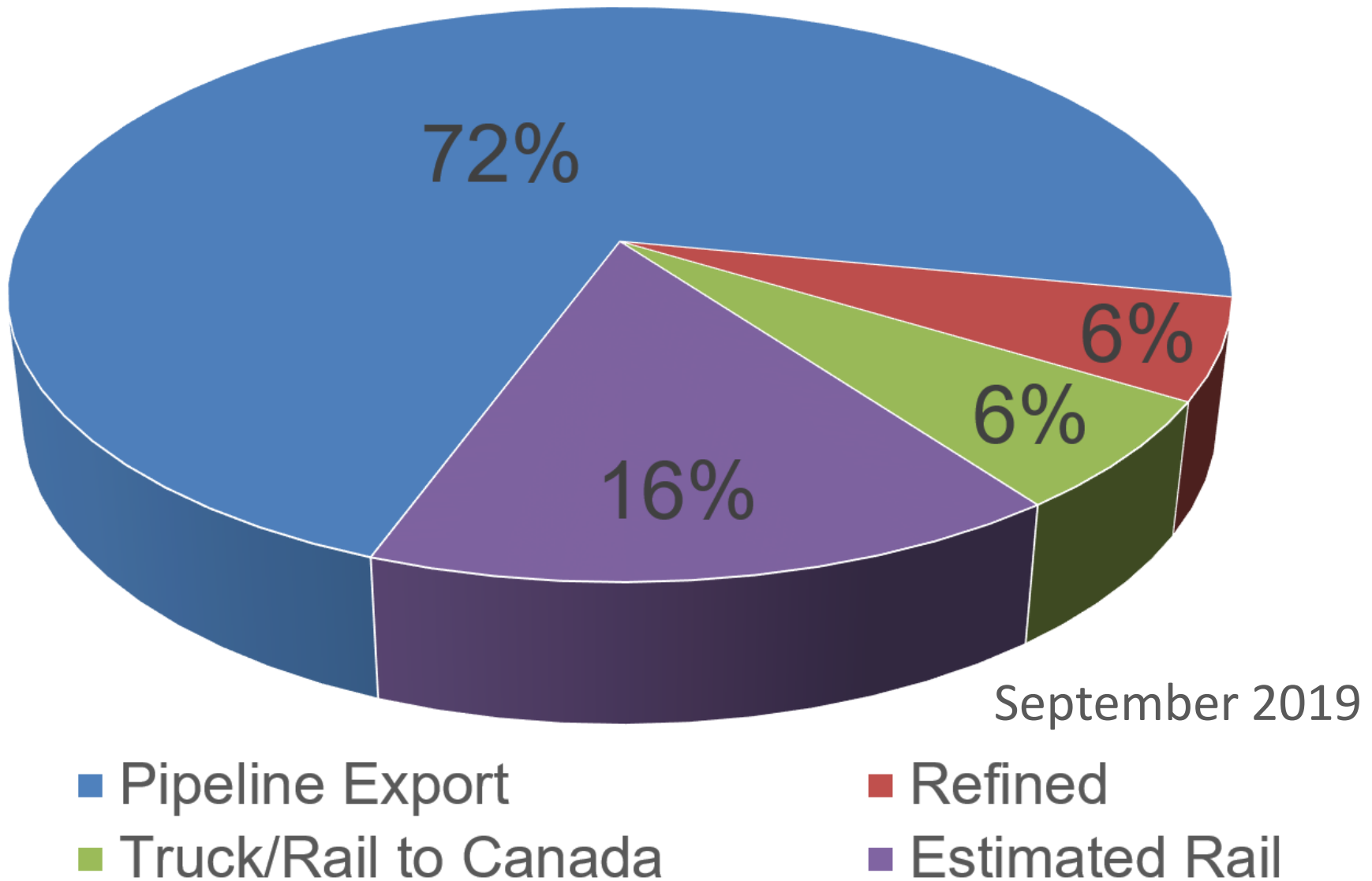
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,403,939	57,565	3,276	1,464,780
February	1,336,637	54,656	3,339	1,394,632
March	1,394,136	56,211	3,256	1,453,603
April	1,392,517	57,678	3,231	1,453,425
May	1,394,957	53,945	3,092	1,451,994
June	1,425,267	47,702	3,122	1,476,091
July	1,445,934		3,128	
August	1,480,475		3,124	
September	1,443,275		3,059	
October				
November				
December				



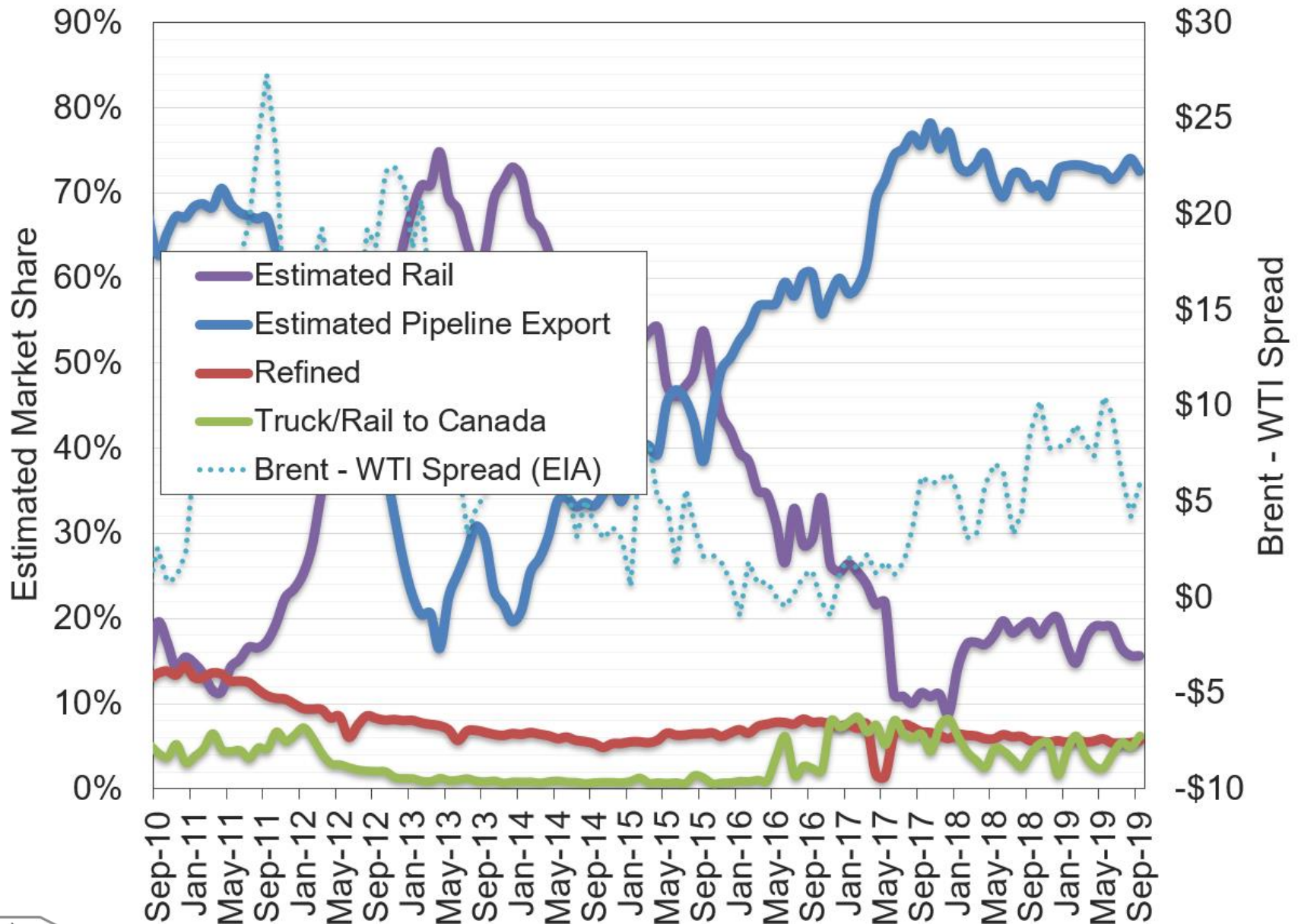
Monthly Production Change



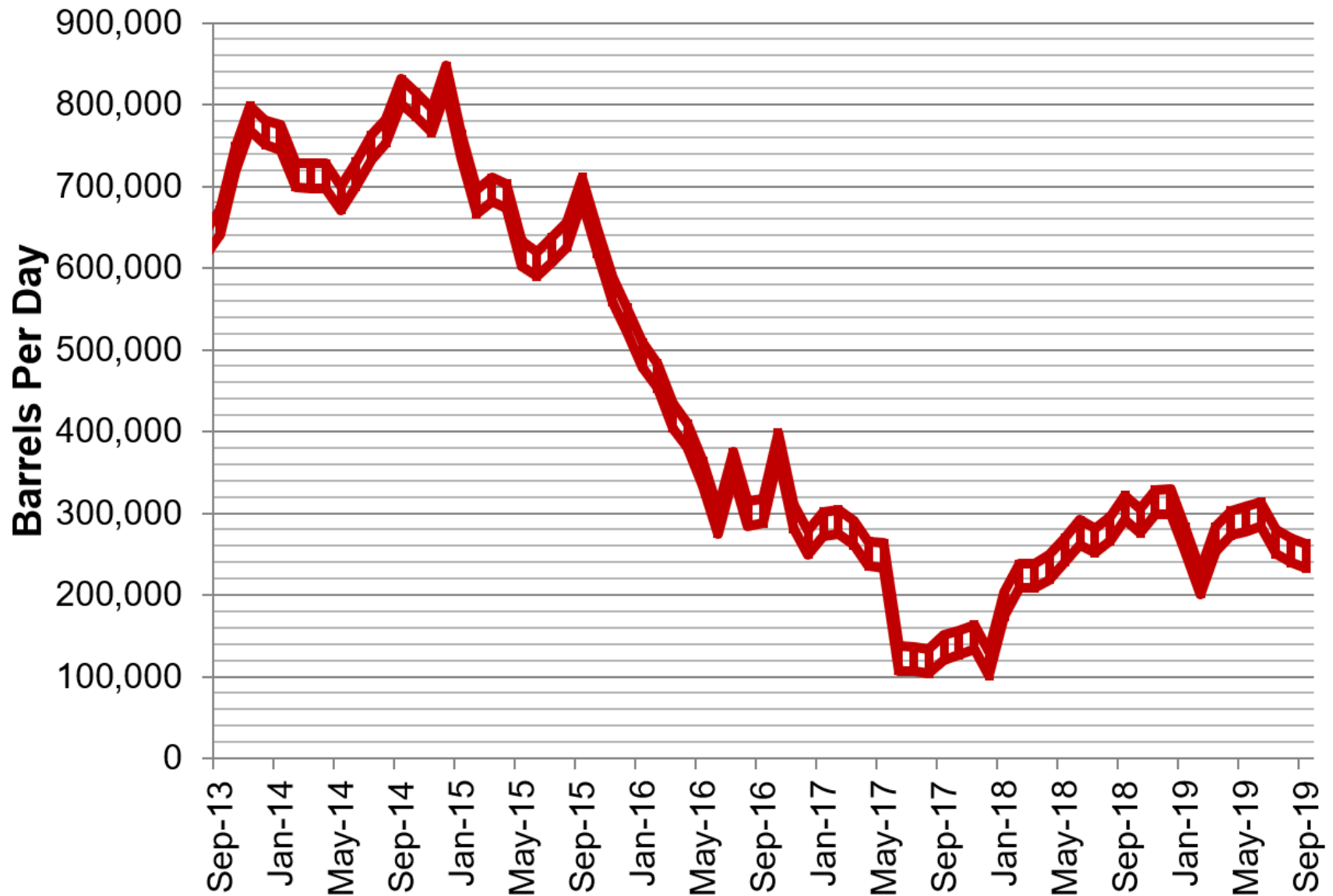
Estimated Williston Basin Oil Transportation



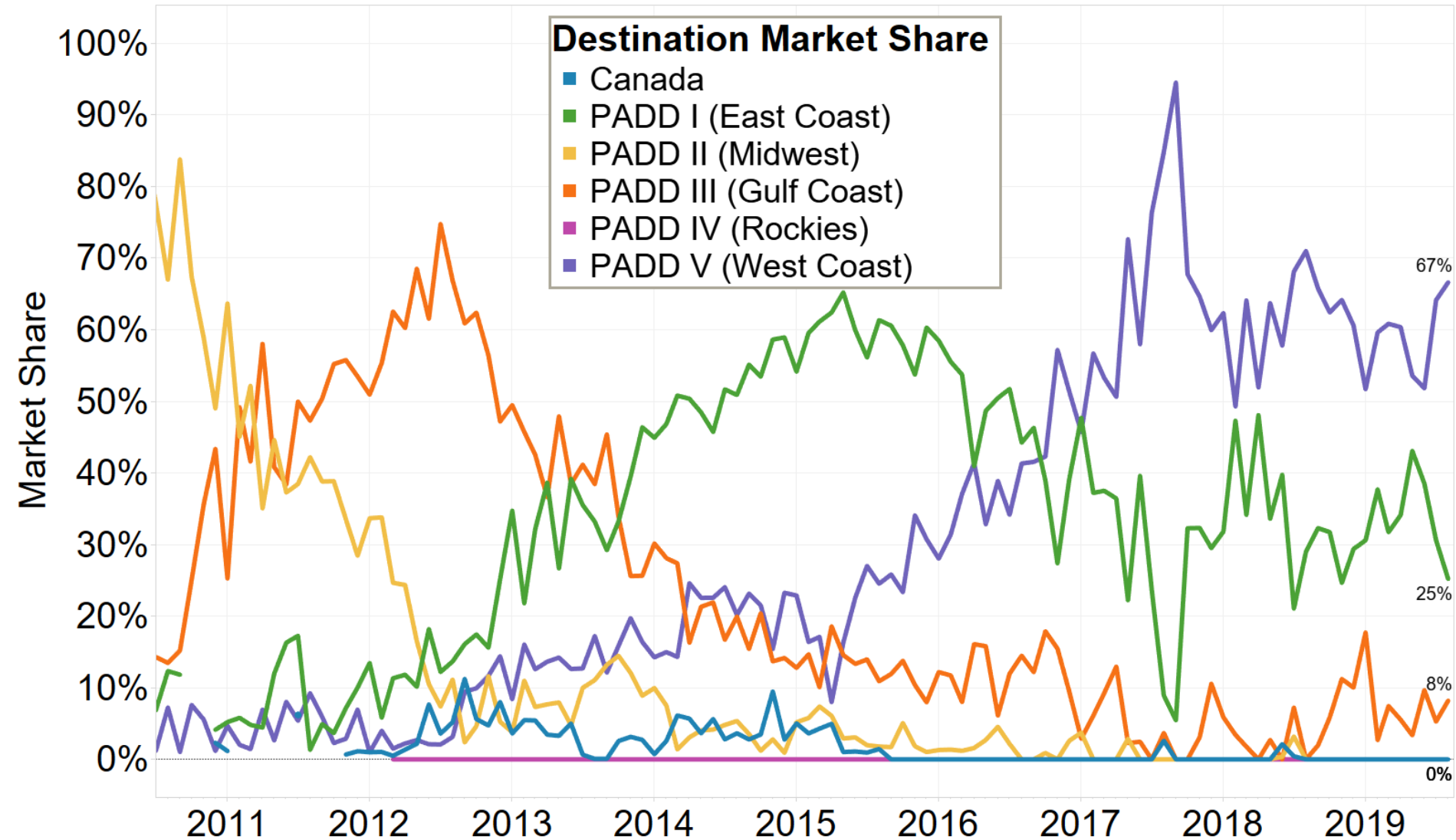
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



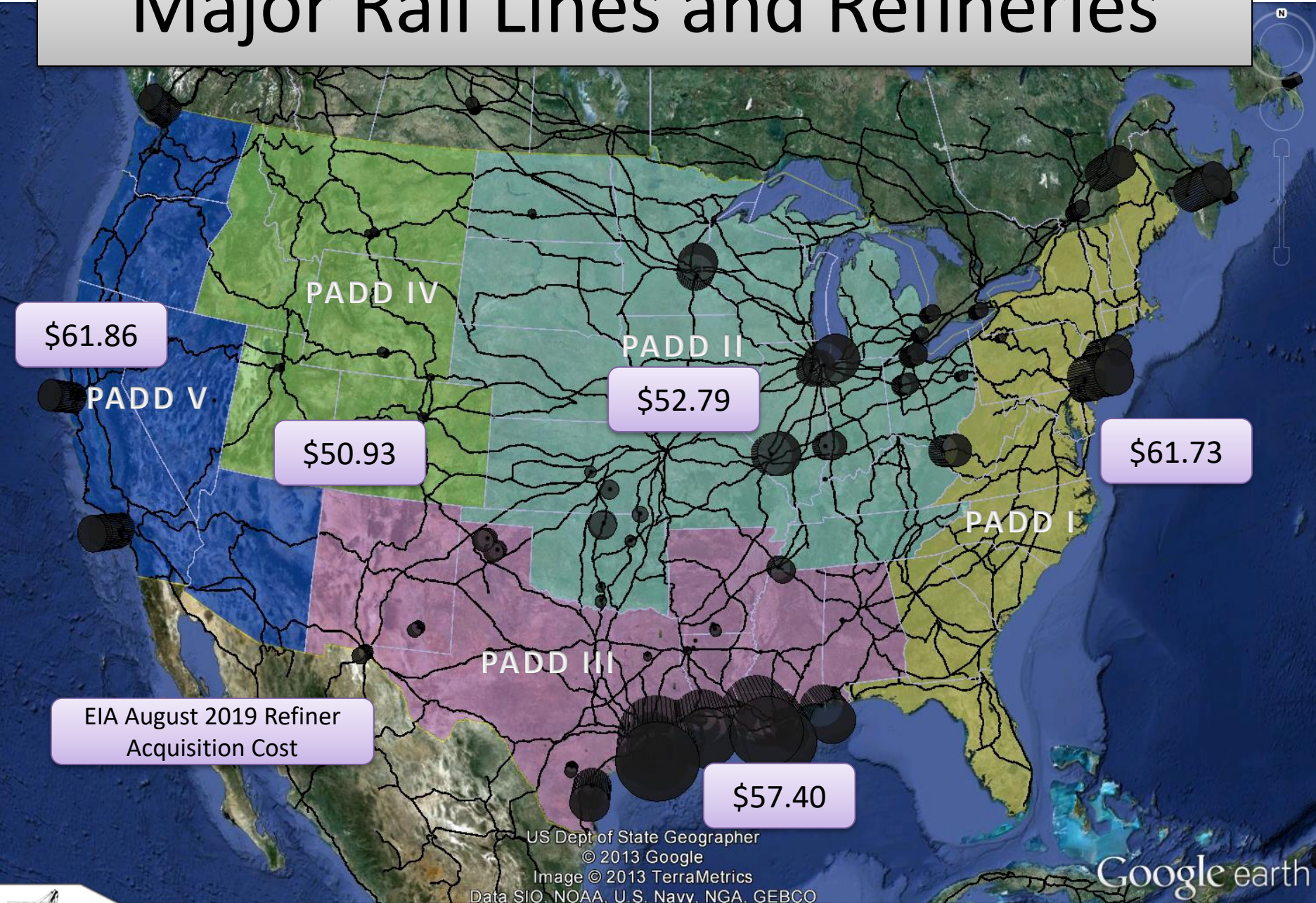
Rail Destinations Market Share (Aug 2019)



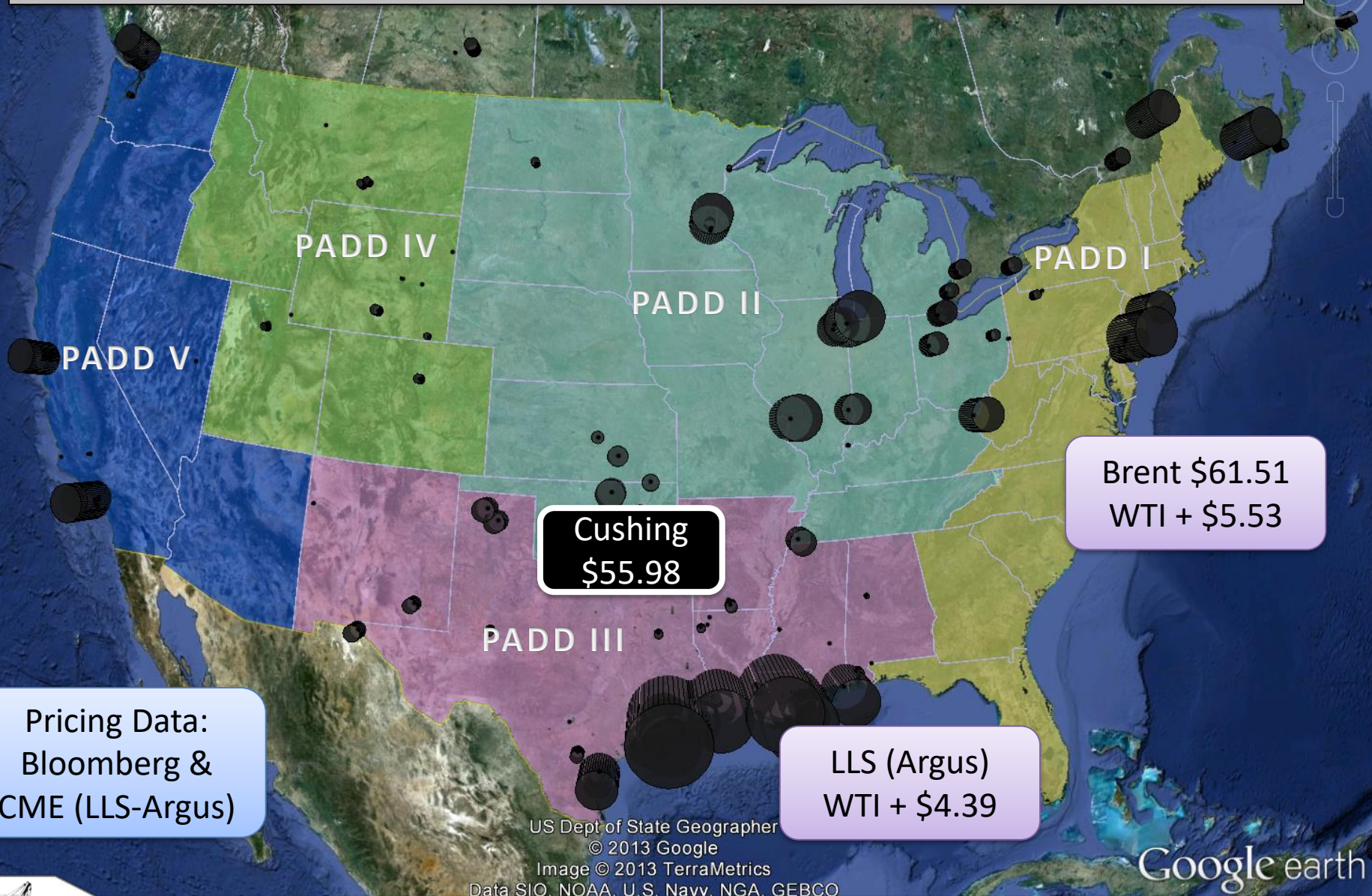
Data for Rail Destination Market Share Provided by the US Energy Information Administration



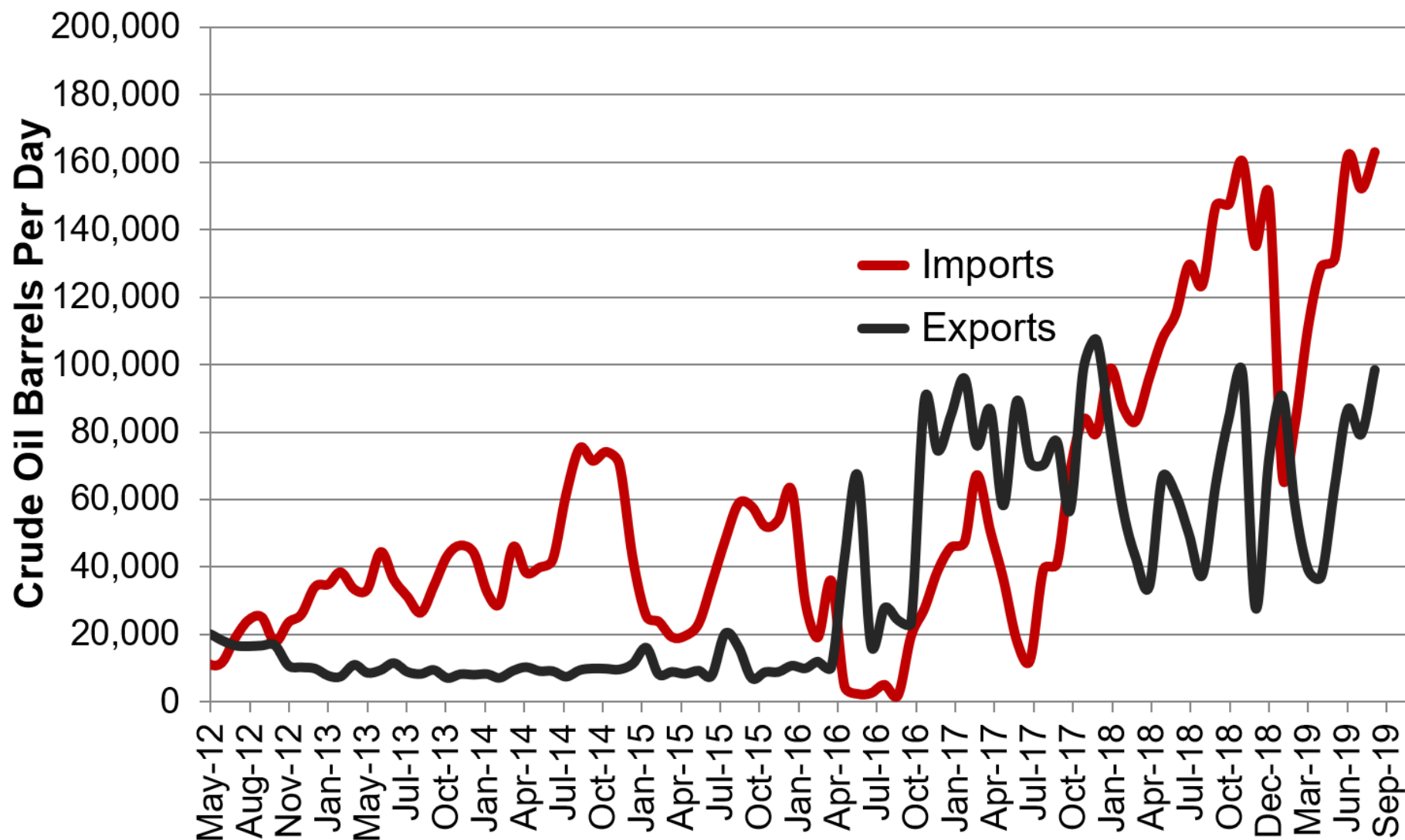
Major Rail Lines and Refineries



Crude Oil Prices – Nov. 19, 2019



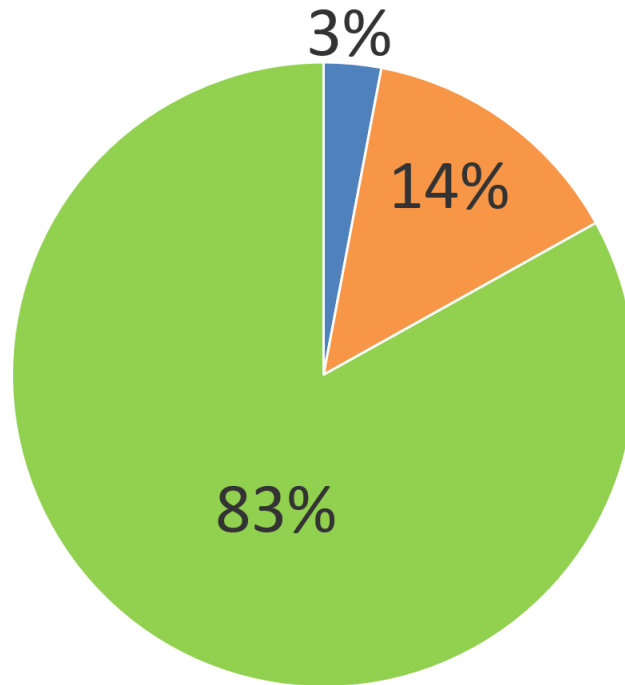
Williston Basin Truck/Rail Imports and Exports with Canada



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.

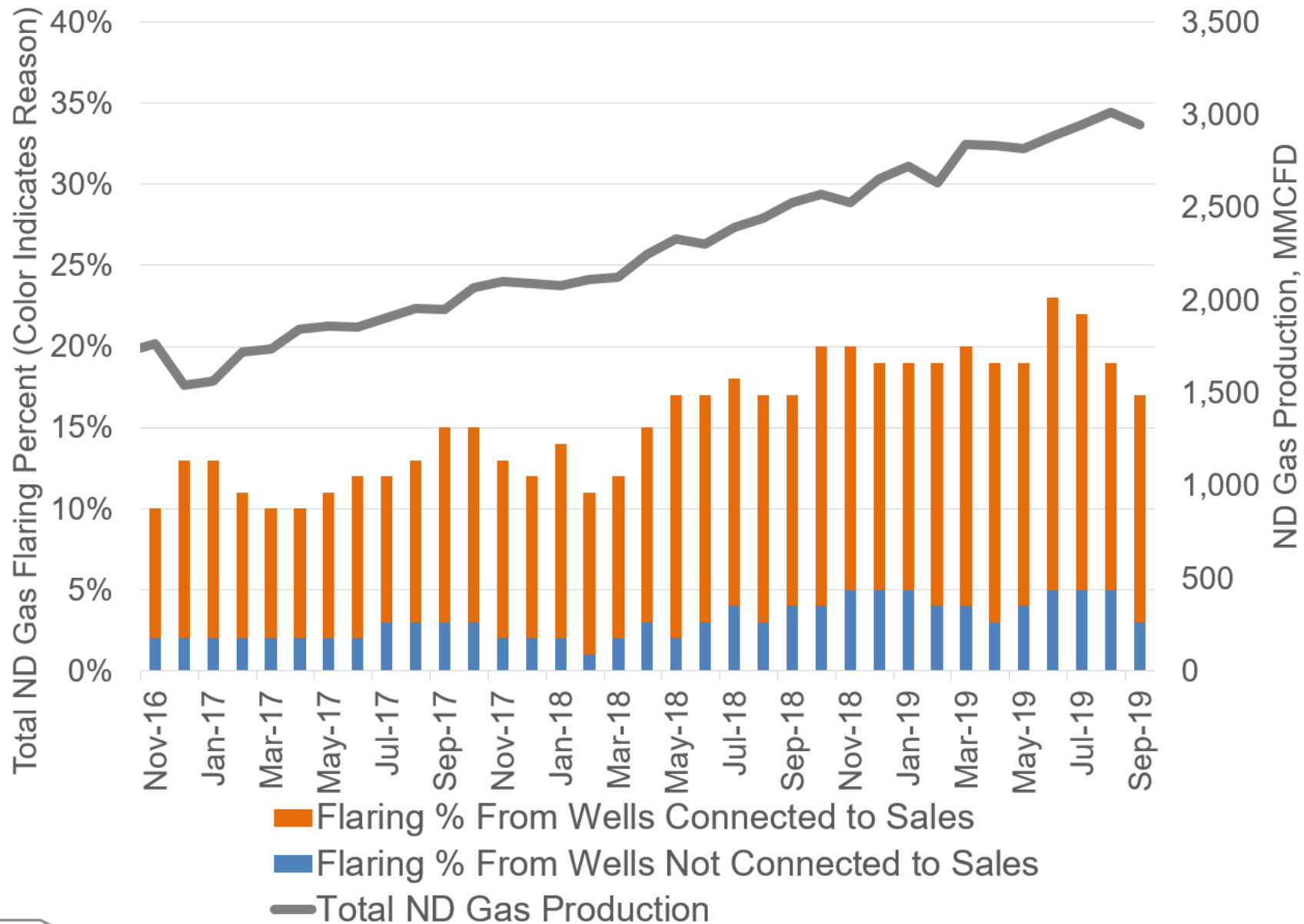
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

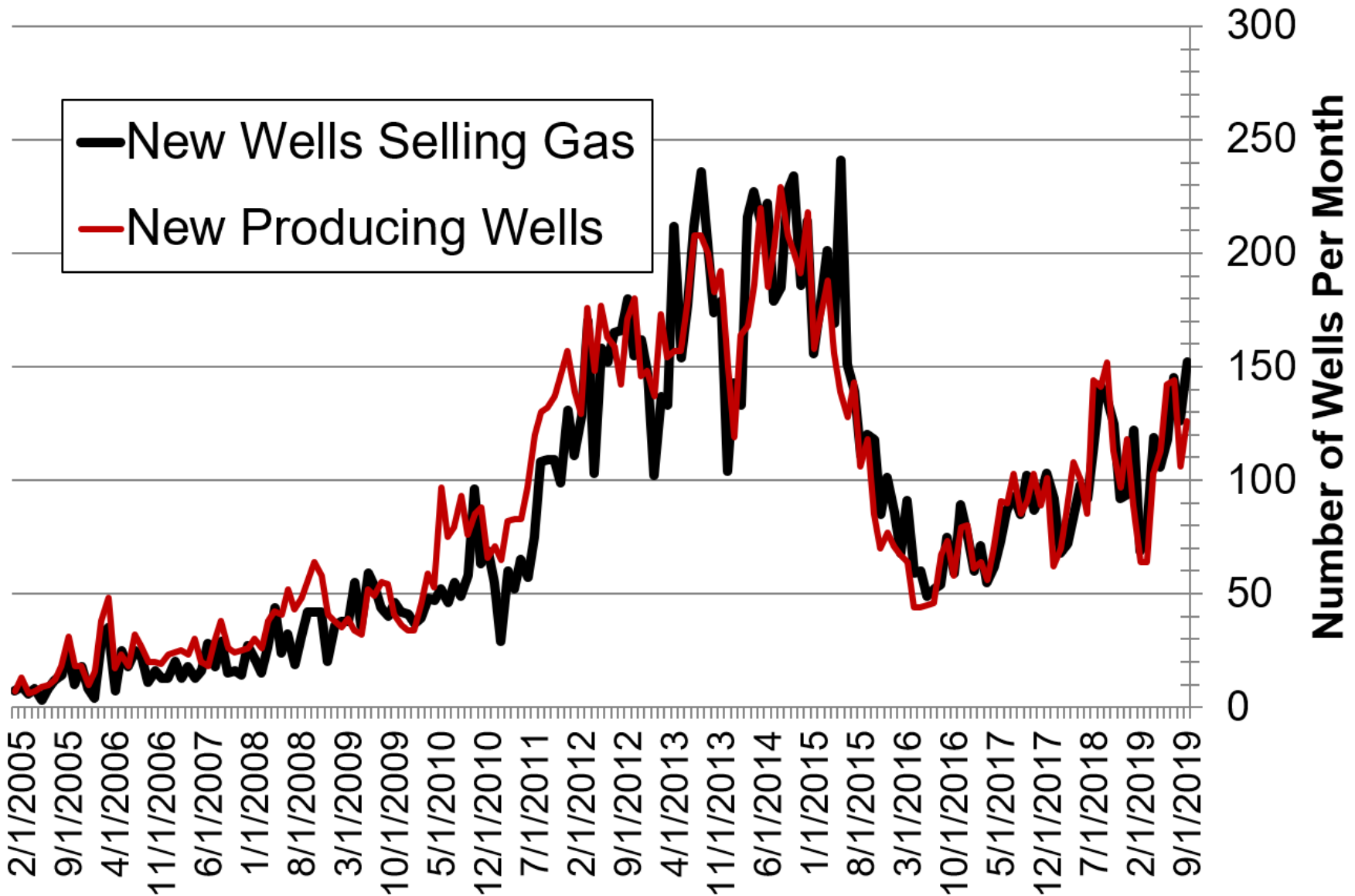
Sep. 2019 Data – Non-Confidential Wells



Solving the Flaring Challenge



Solving the Flaring Challenge



Recent Major Gas Processing Expansions

Plant Name	Plant Operator	County	Additional Expansion Vol., MMCFD	Date
Arrow Bear Den	Arrow Field Services	McKenzie	120	Aug-19
Roosevelt	Kinder Morgan	McKenzie	150	Nov-19
Demicks Lake	ONEOK	McKenzie	200	Nov-19
LM4	Targa/Hess JV	McKenzie	200	Aug-19

670 MMCFD

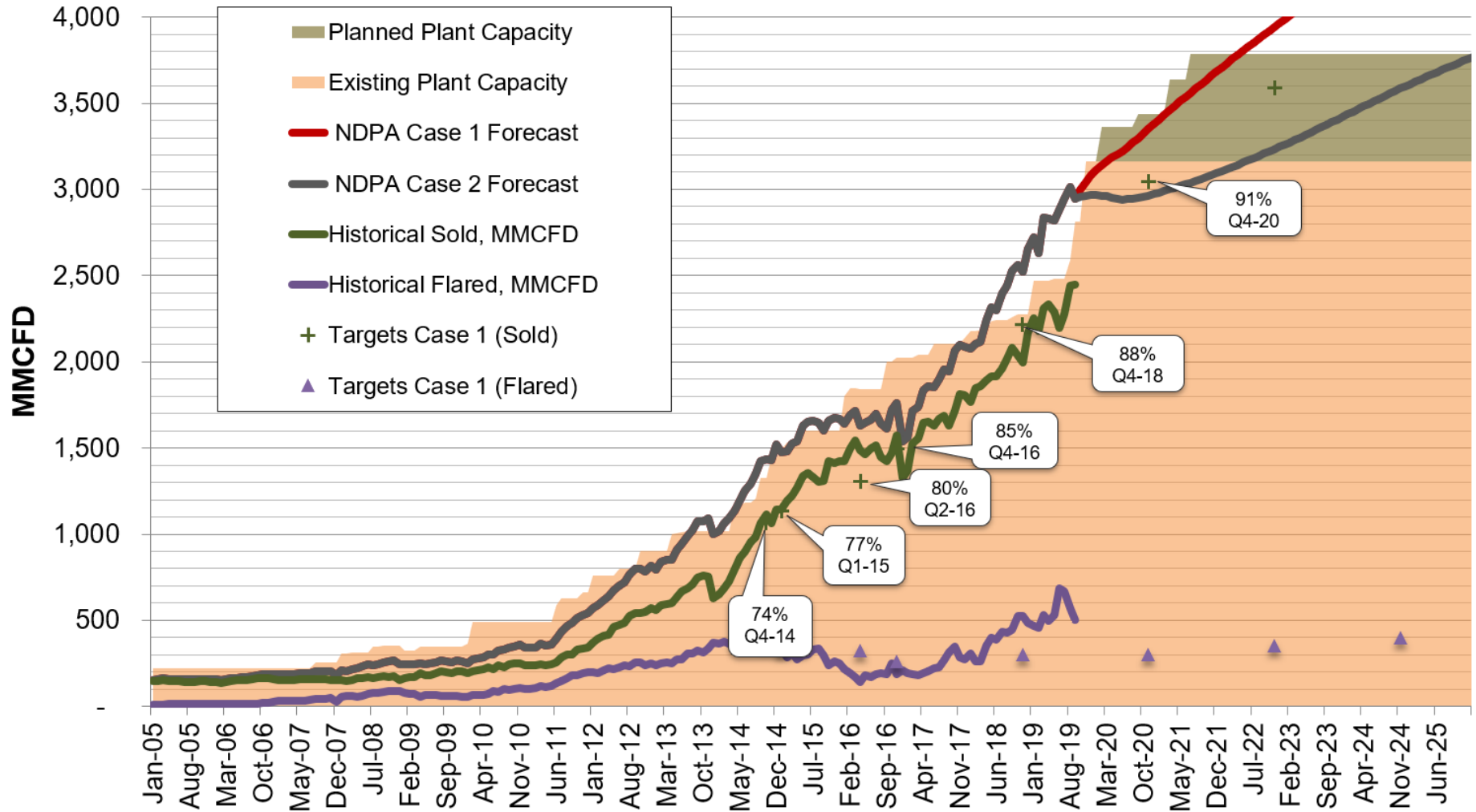
Planned Major Gas Processing Expansions

Plant Name	Plant Operator	County	Additional Expansion Vol., MMCFD	Estimated In-Service Date
Demicks Lake II	ONEOK	McKenzie	200	20-Feb
Nesson	XTO	Williams	75	20-Sep
Bear Creek II	ONEOK	Dunn	200	21-Mar
Tioga	Hess	Williams	150	21-Jul

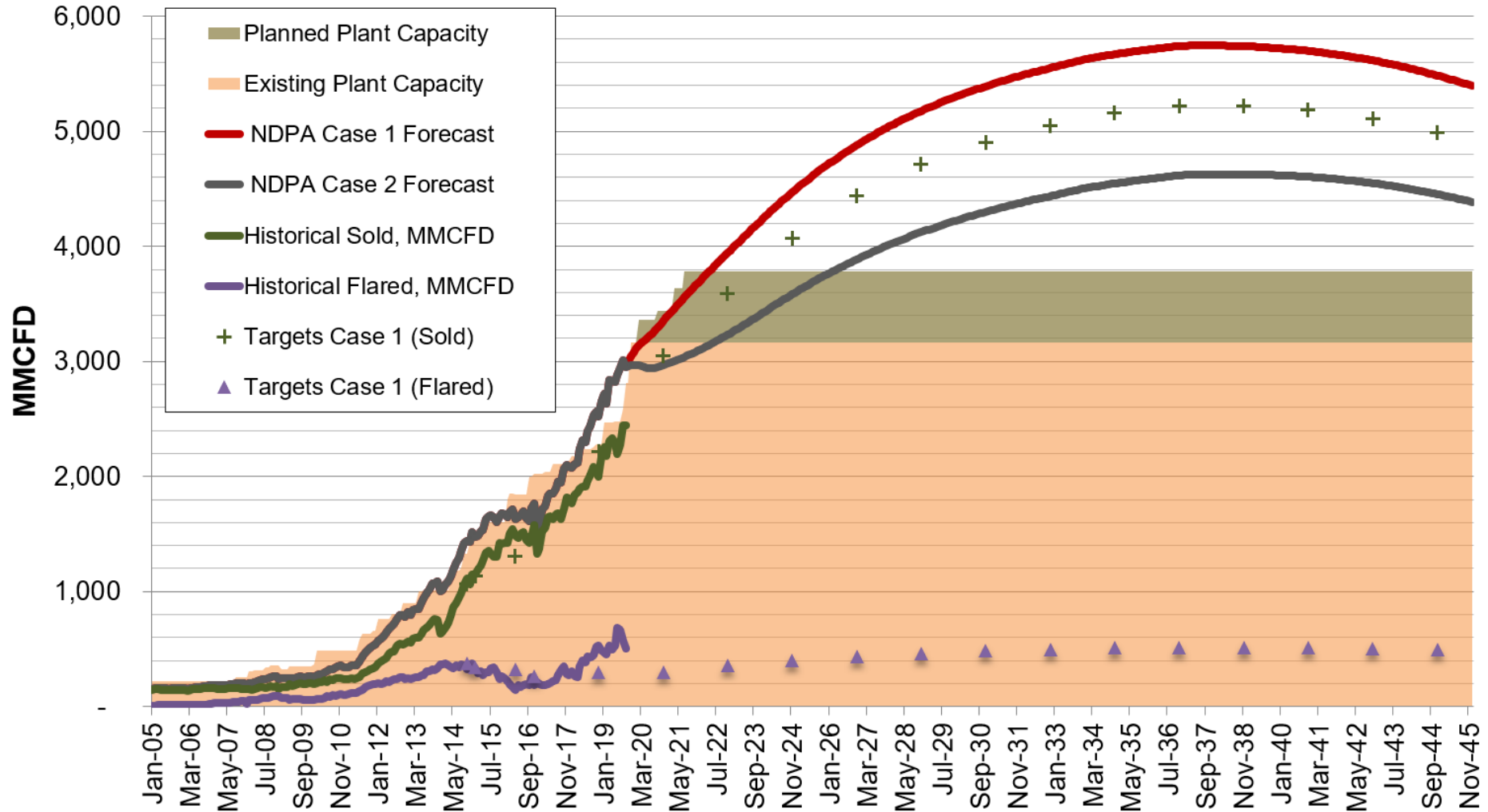
625 MMCFD



Solving the Flaring Challenge



Solving the Flaring Challenge



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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