



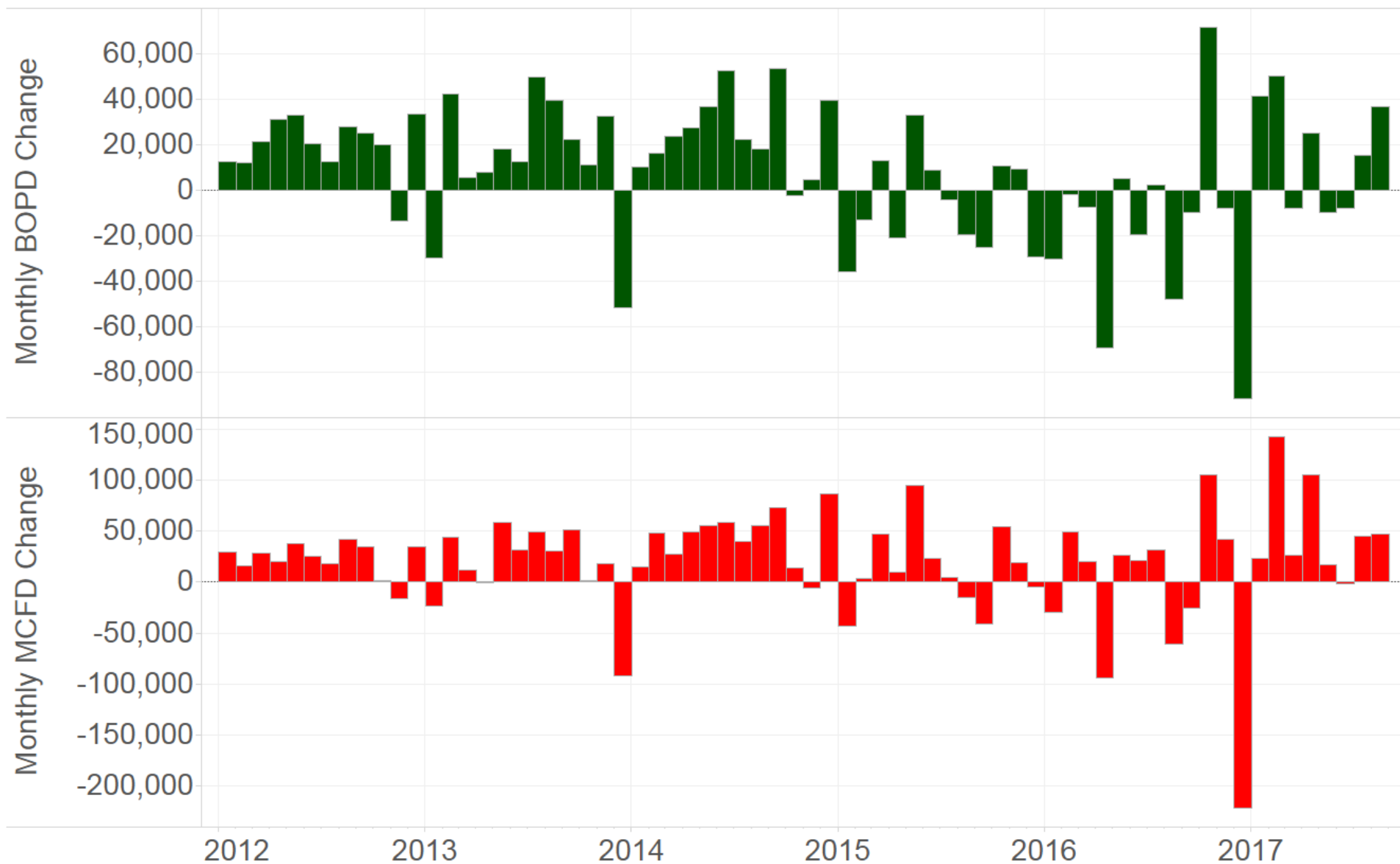
October 2017 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
October 10, 2017

US Williston Basin Oil Production - 2017

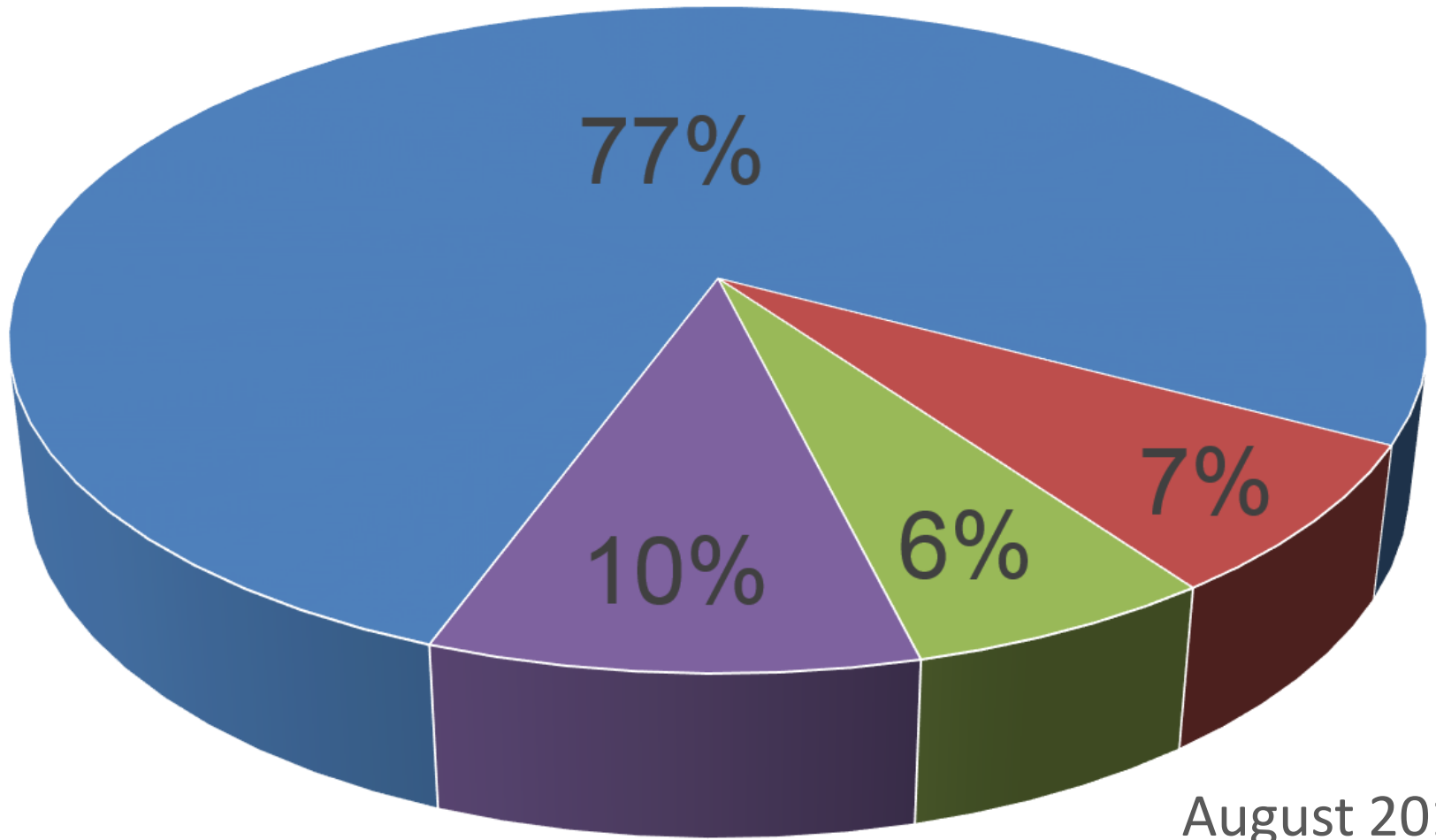
MONTH	ND	Eastern MT*	SD	TOTAL
January	983,820	52,726	3,553	1,040,099
February	1,034,005	53,959	3,718	1,091,682
March	1,025,786	52,834	3,705	1,082,325
April	1,050,777	52,296	3,768	1,106,841
May	1,041,008	52,733	3,389	1,097,130
June	1,032,873	52,361	3,563	1,088,797
July	1,048,099	48,622	3,529	1,100,250
August	1,084,690			
September				
October				
November				
December				



Monthly Production Change



Estimated Williston Basin Oil Transportation



August 2017

■ Pipeline Export

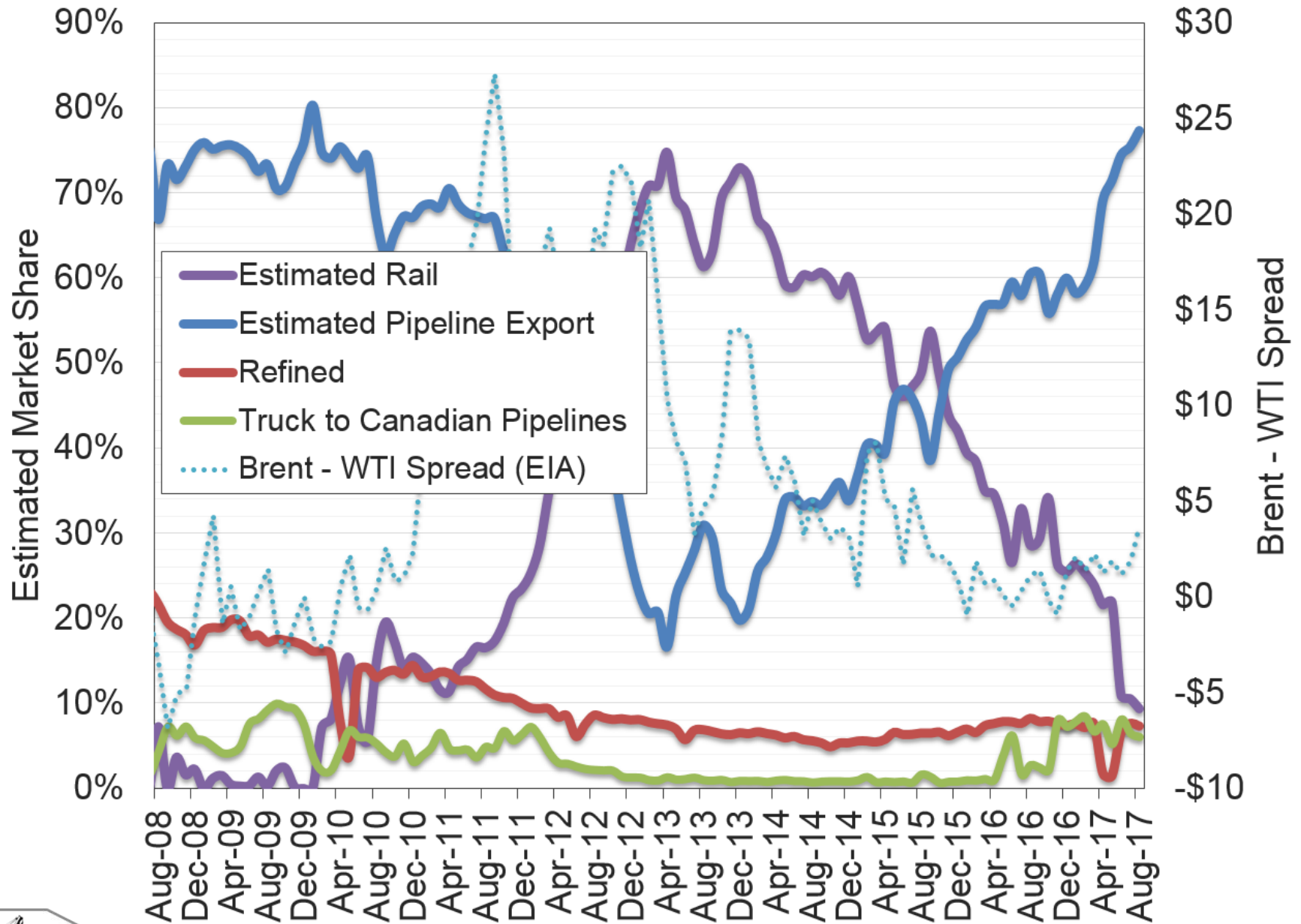
■ Refined

■ Truck to Canadian Pipelines

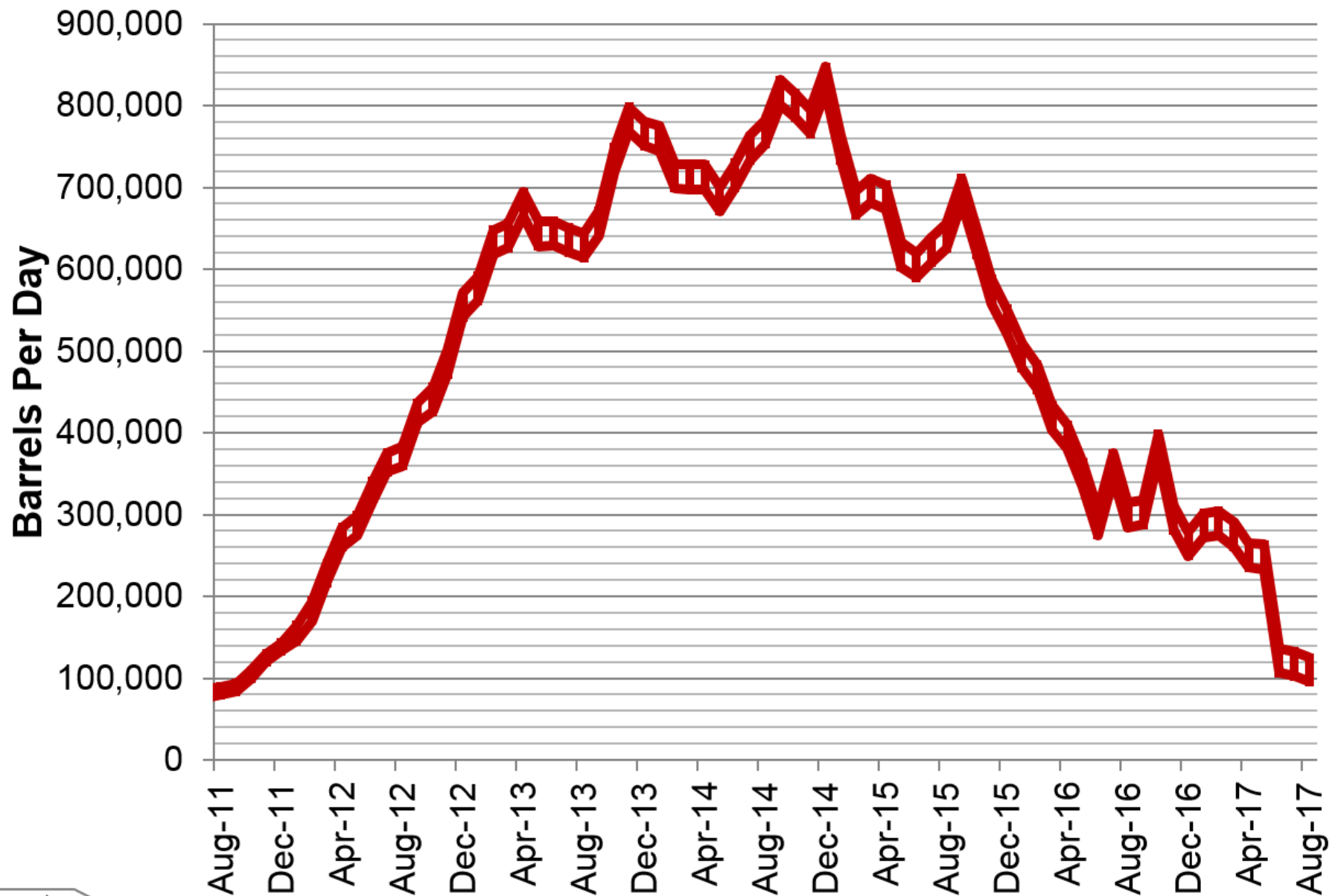
■ Estimated Rail



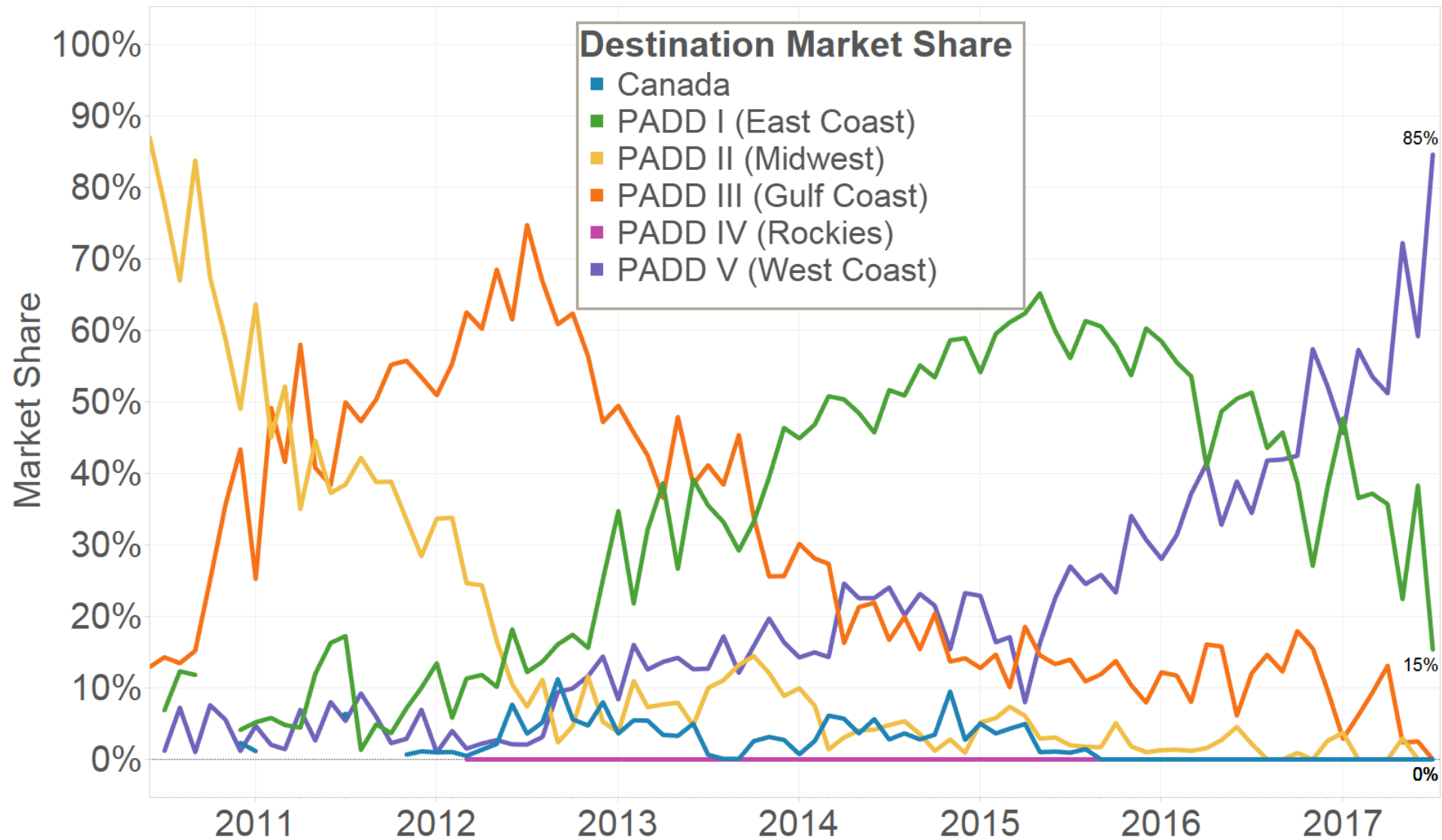
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



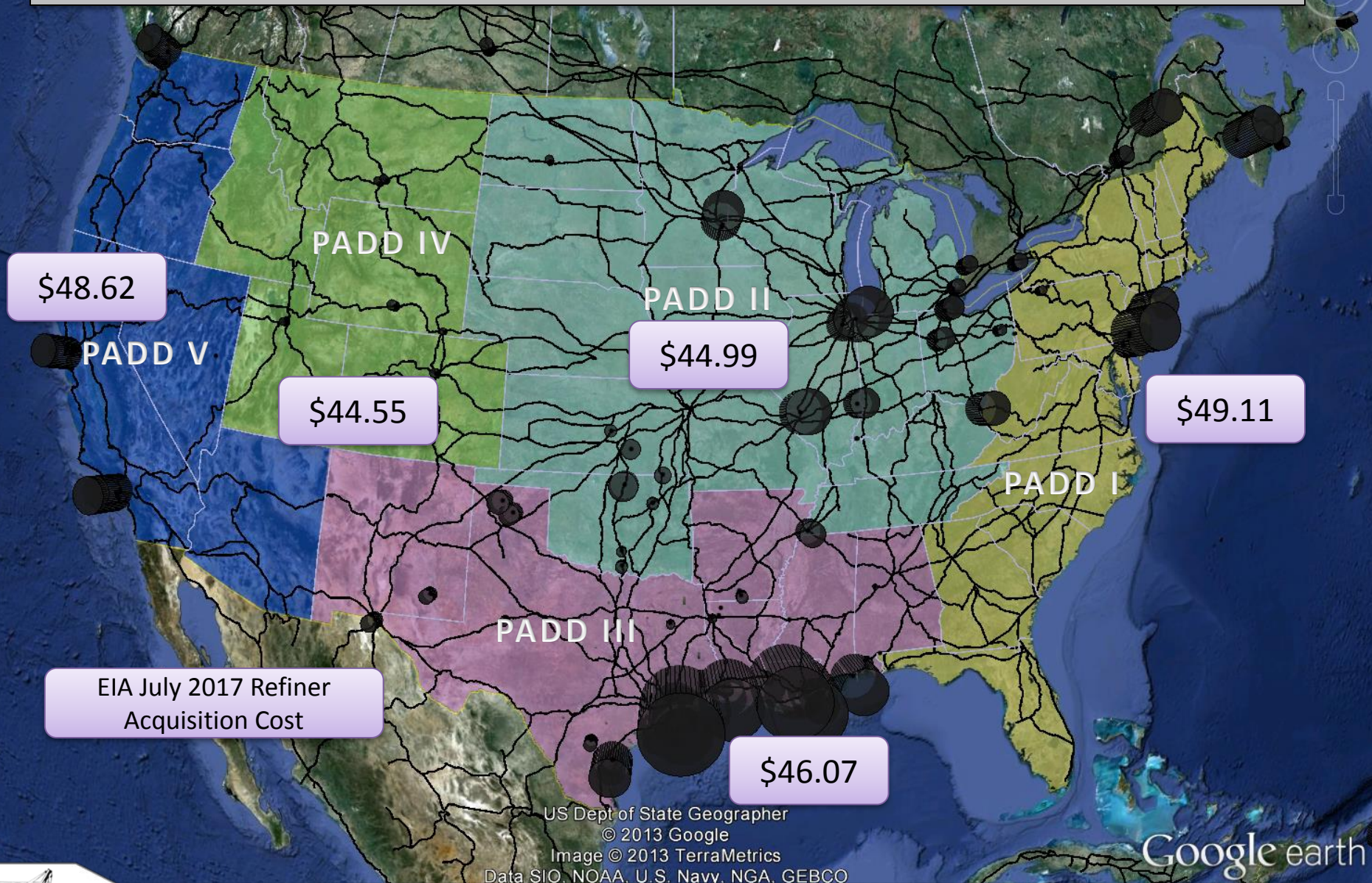
Rail Destinations Market Share (July 2017)



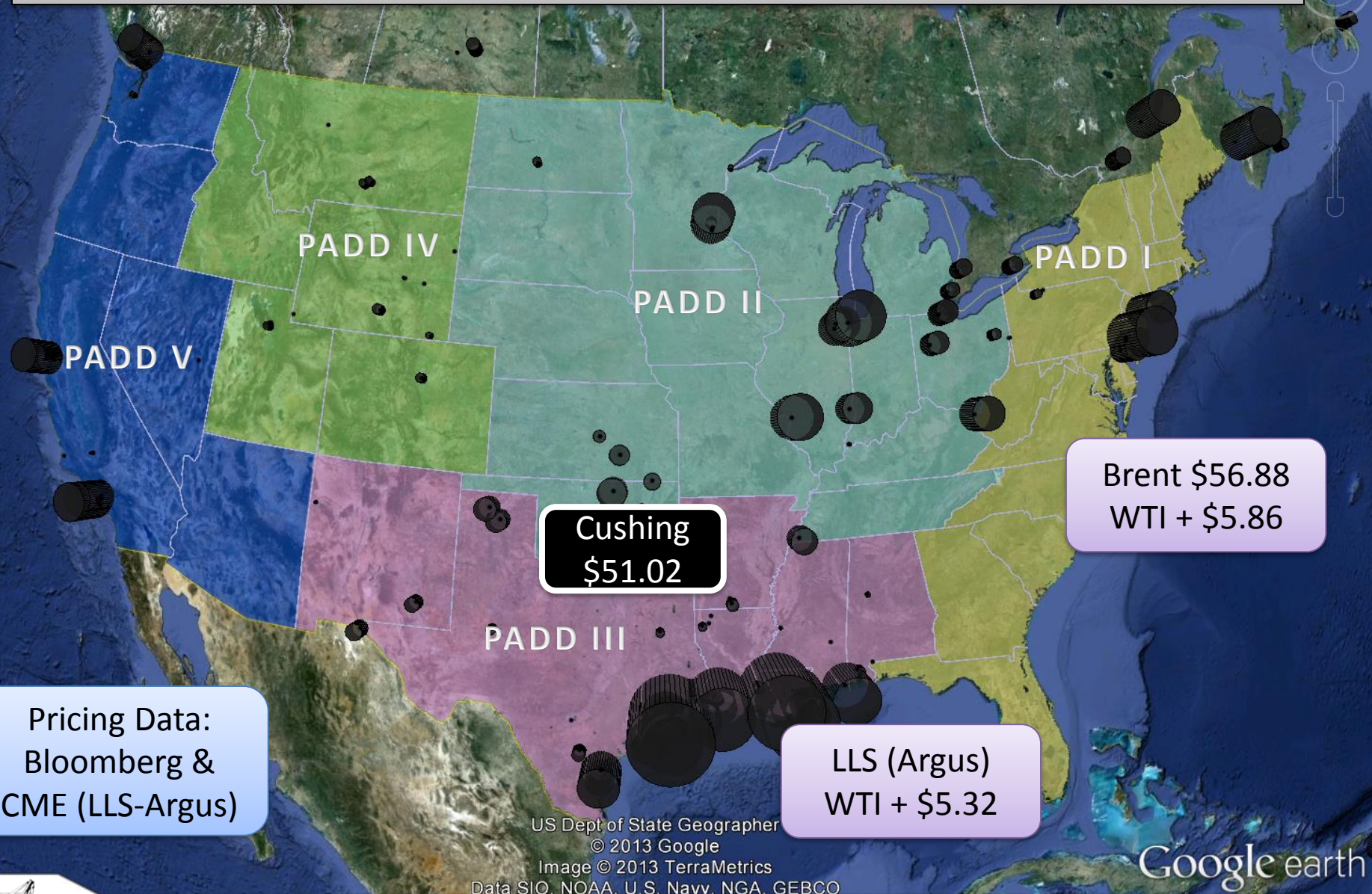
Data for Rail Destination Market Share Provided by the US Energy Information Administration



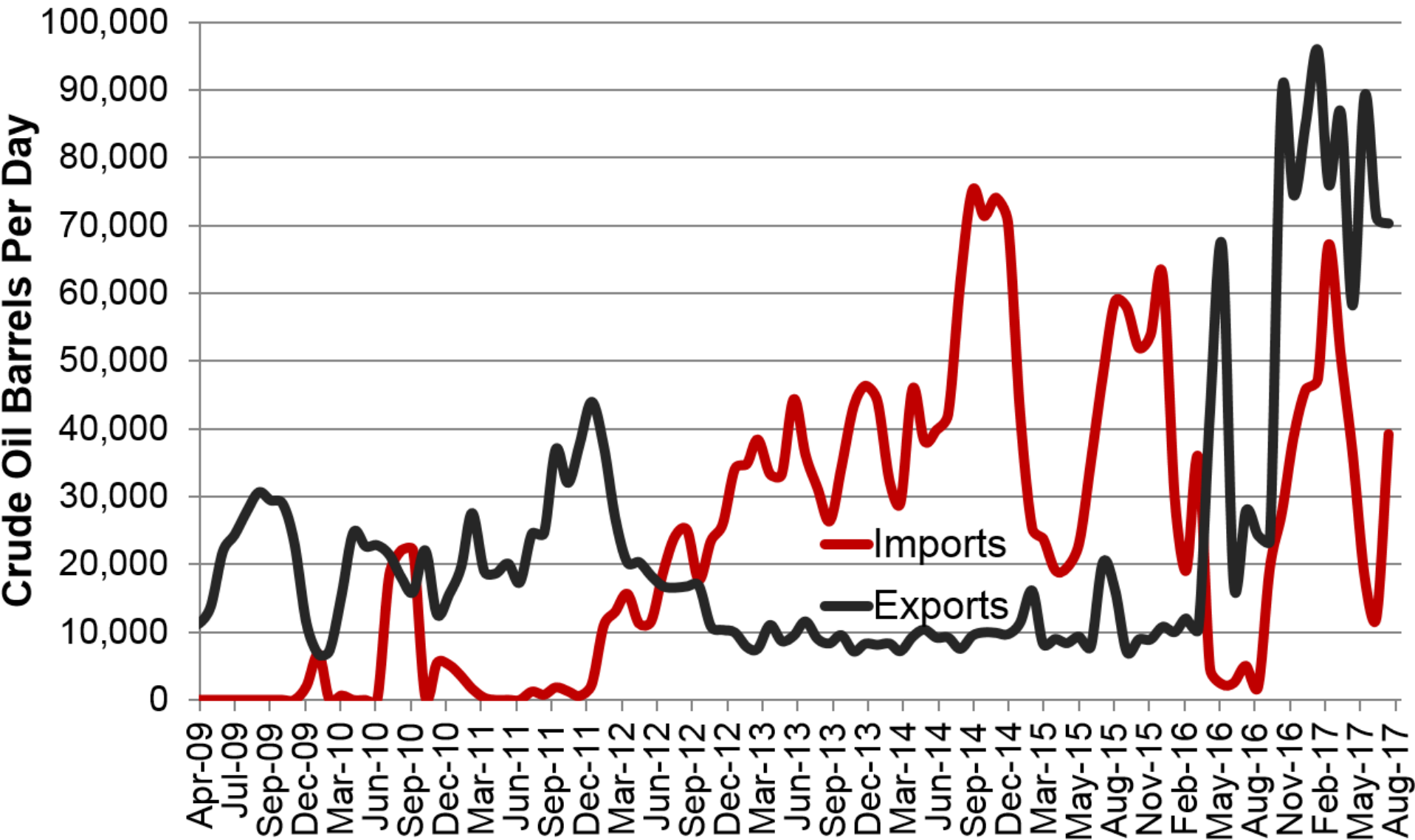
Major Rail Lines and Refineries



Crude Oil Prices – Oct. 10, 2017



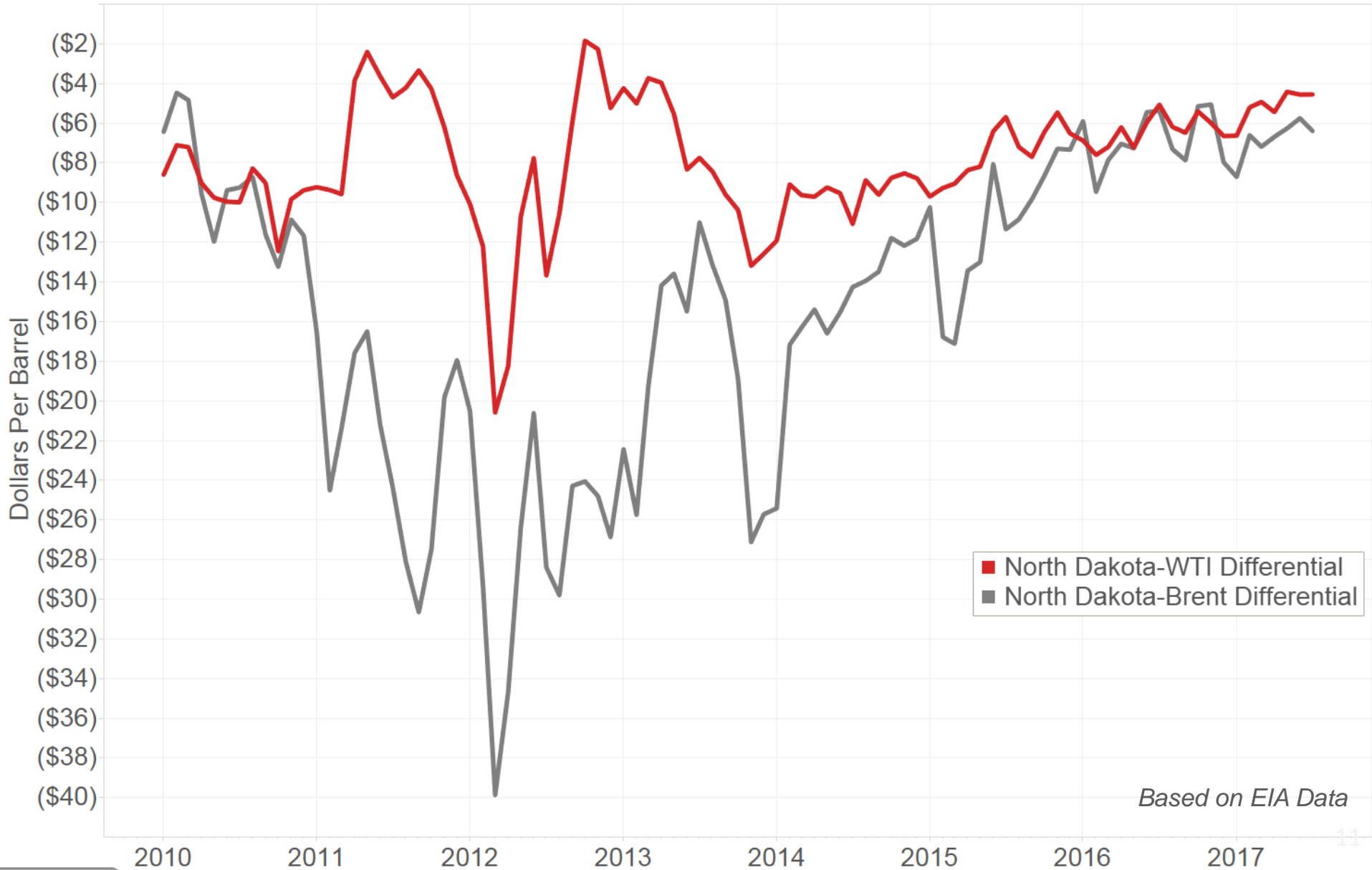
Williston Basin Truck Imports and Exports with Canada



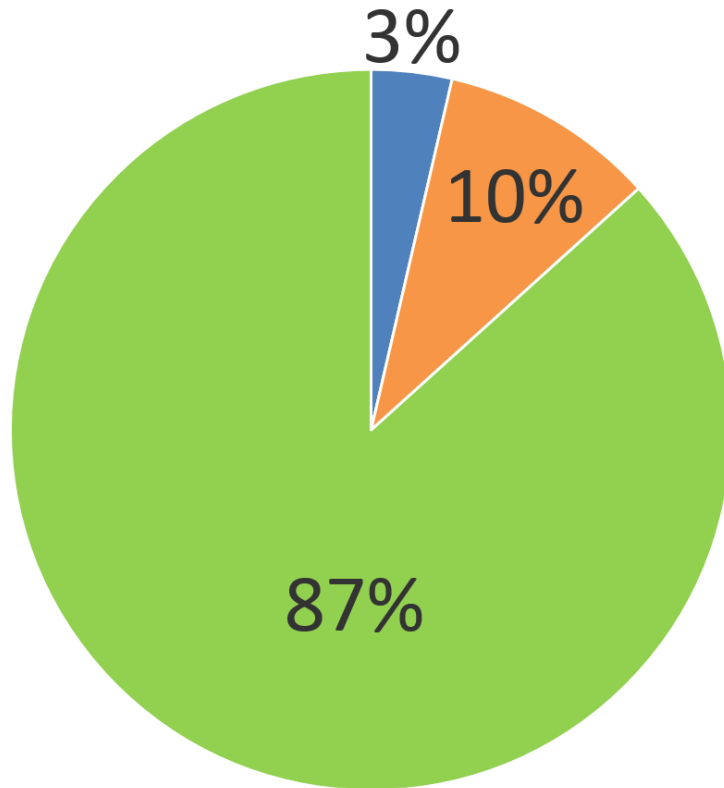
Data for truck imports/exports chart is provided by the US International Trade Commission



North Dakota Oil Differential



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.

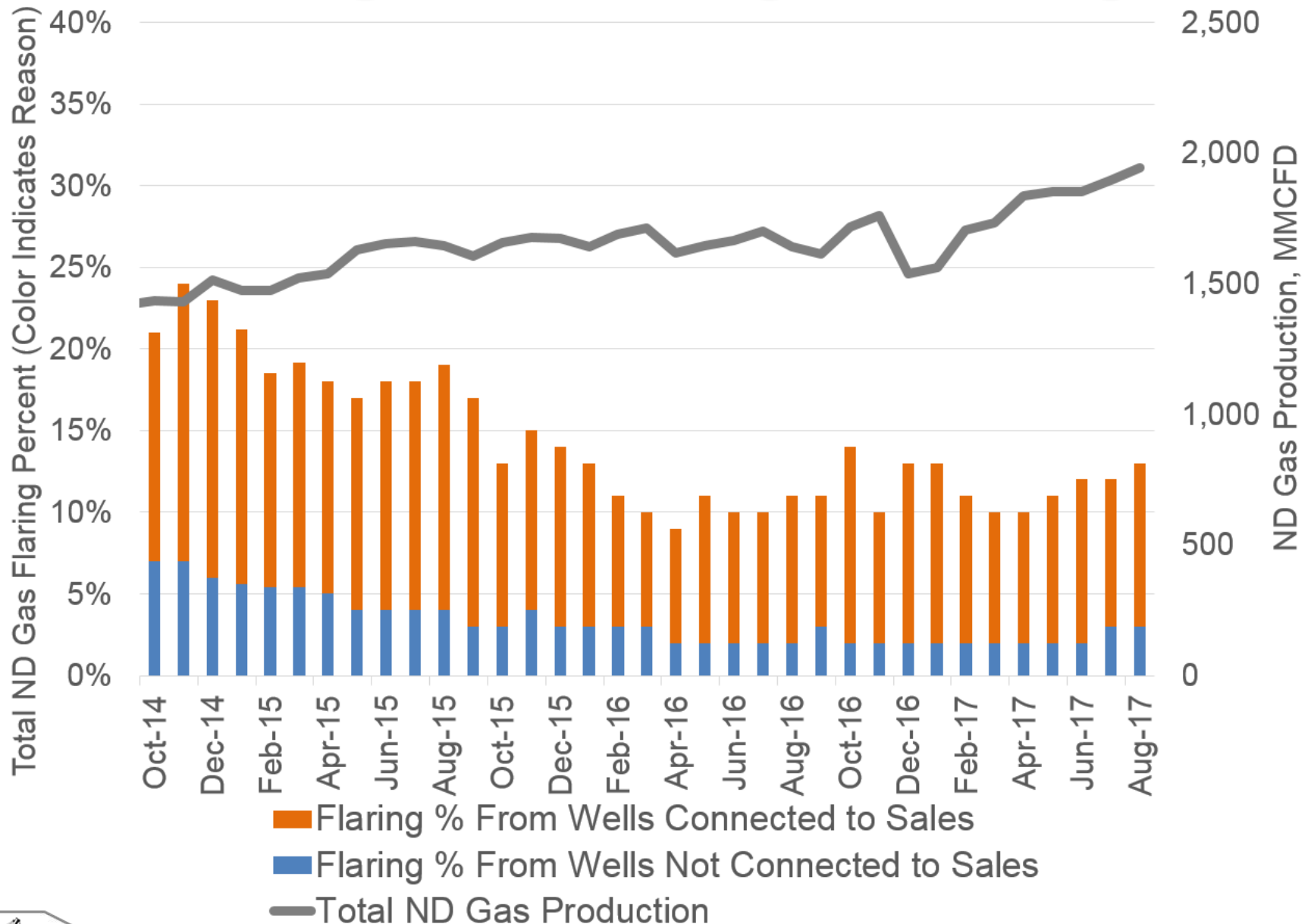
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

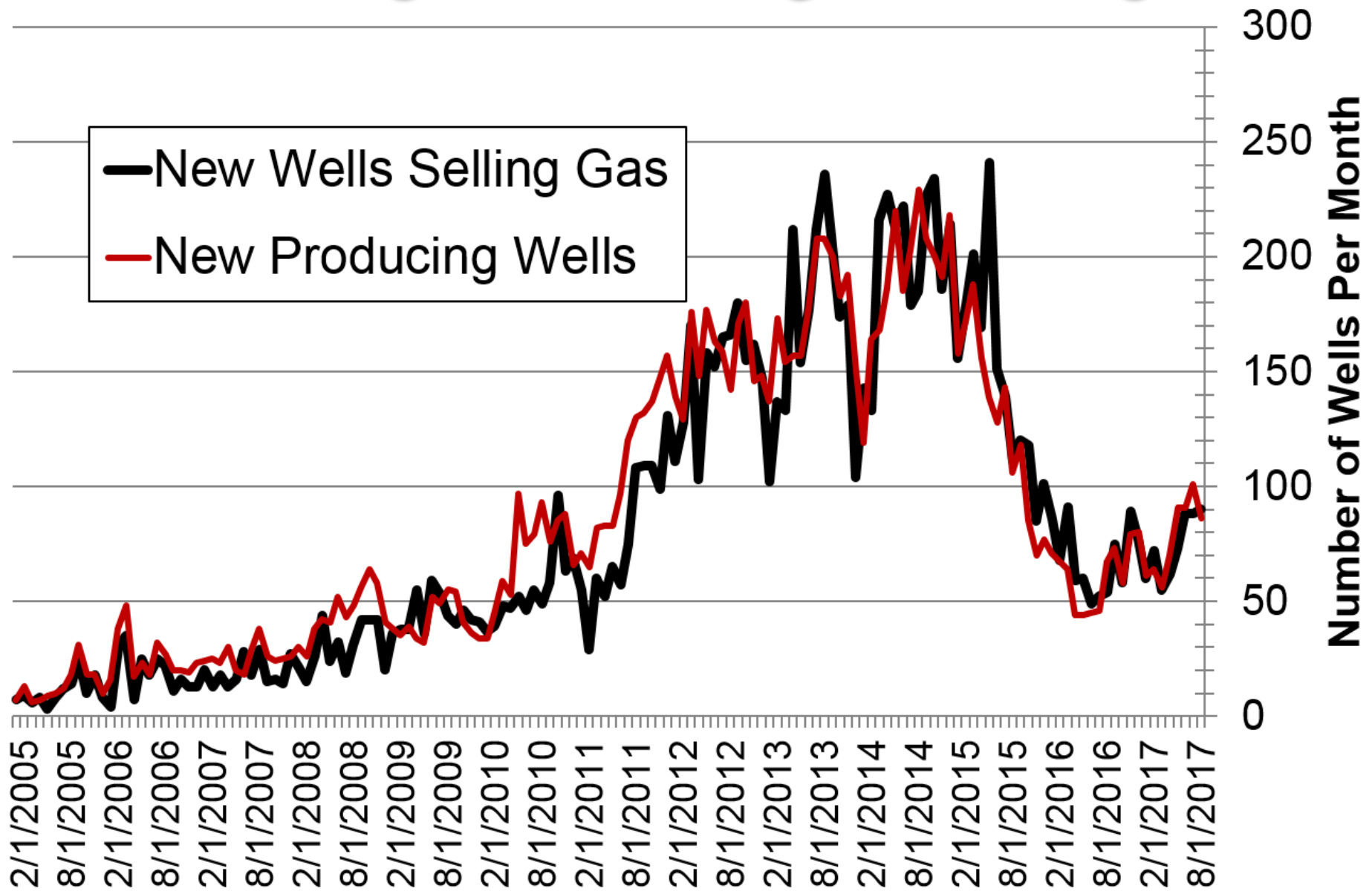
Aug 2017 Data – Non-Confidential Wells



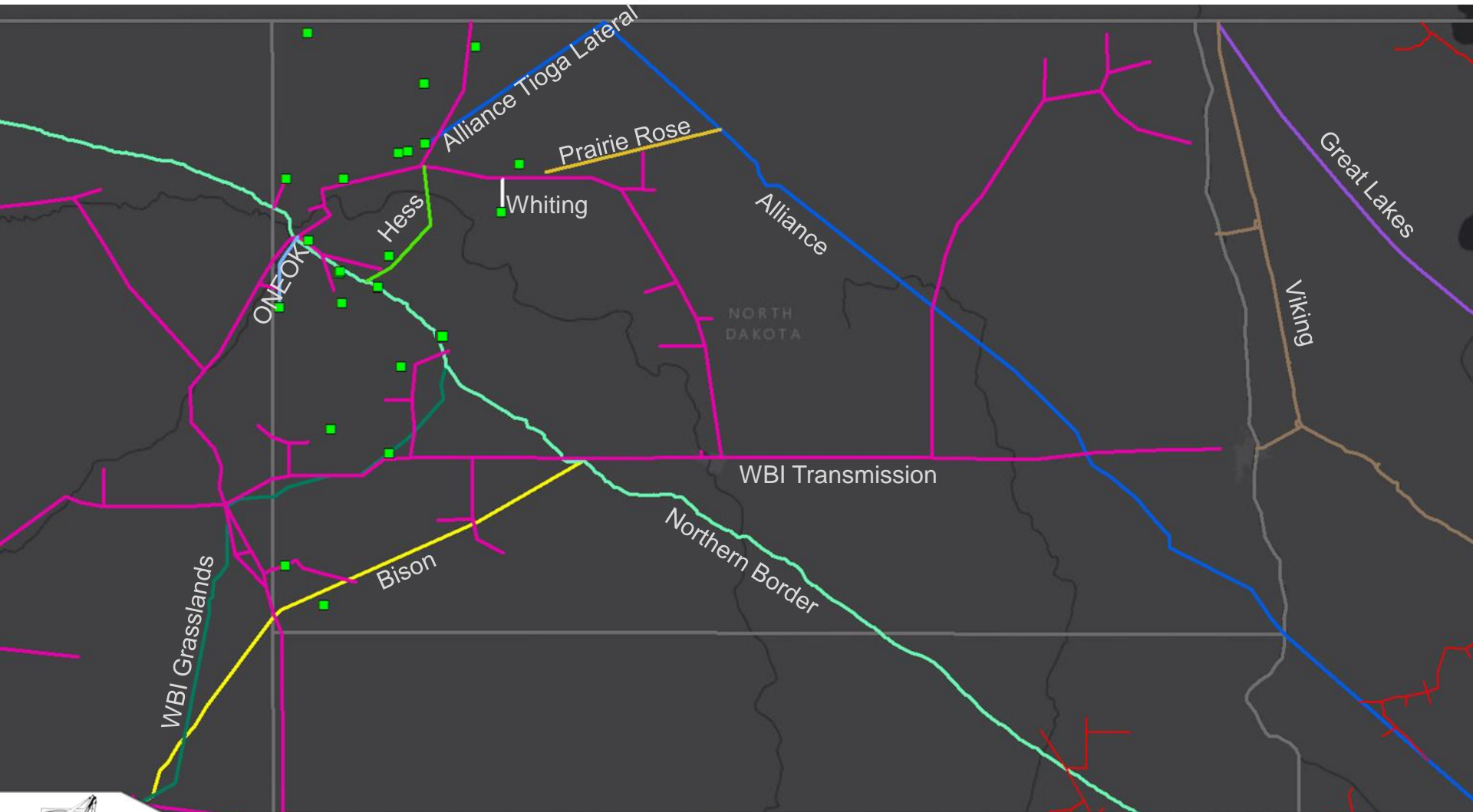
Solving the Flaring Challenge



Solving the Flaring Challenge

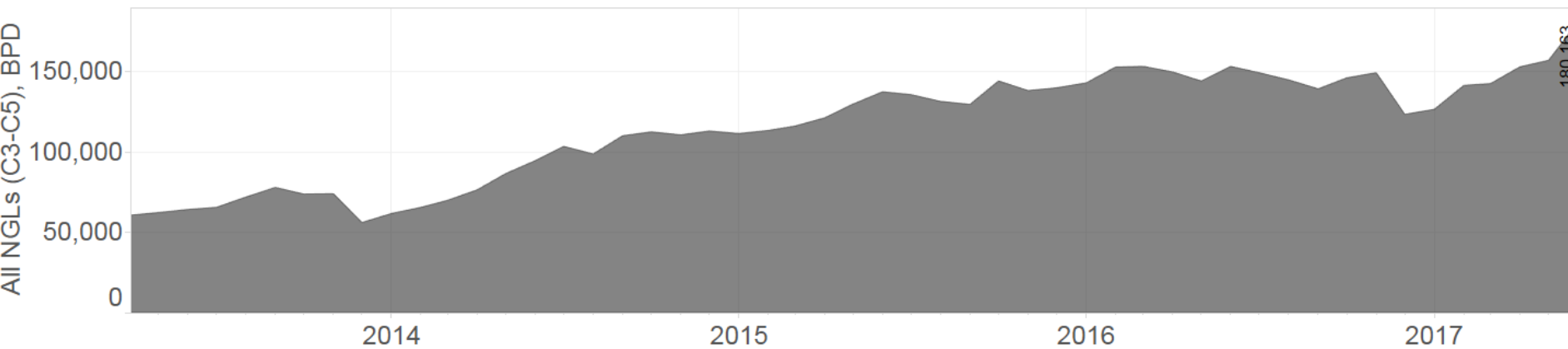


Major Gas Pipeline and Processing Infrastructure

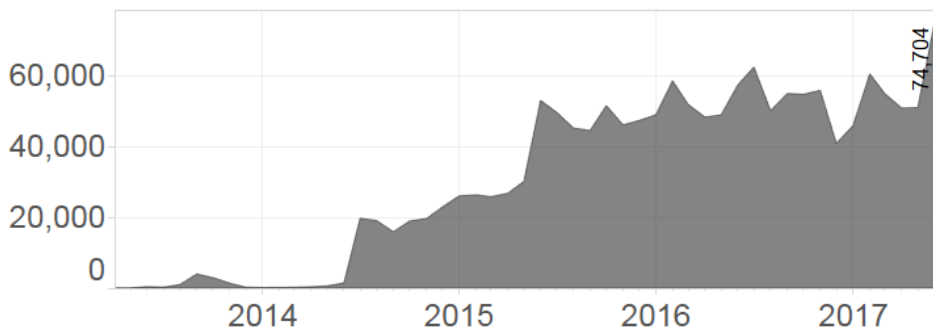


Plant Natural Gas Liquids - (June 2017)

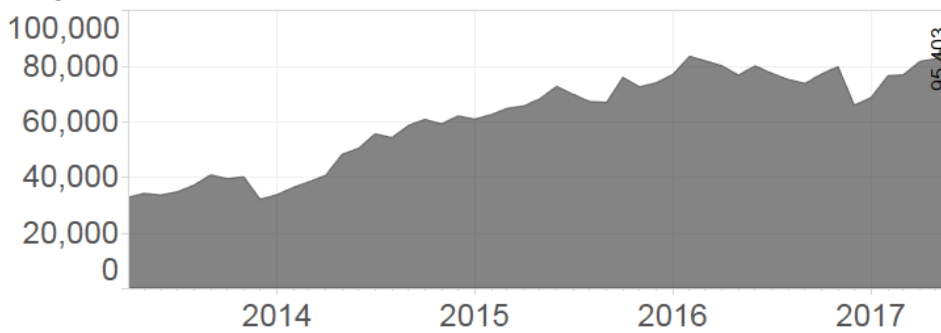
All NGLs, BPD



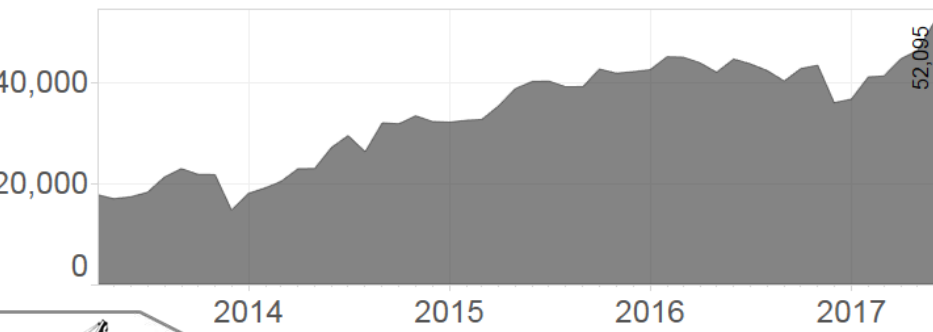
Ethane, BPD



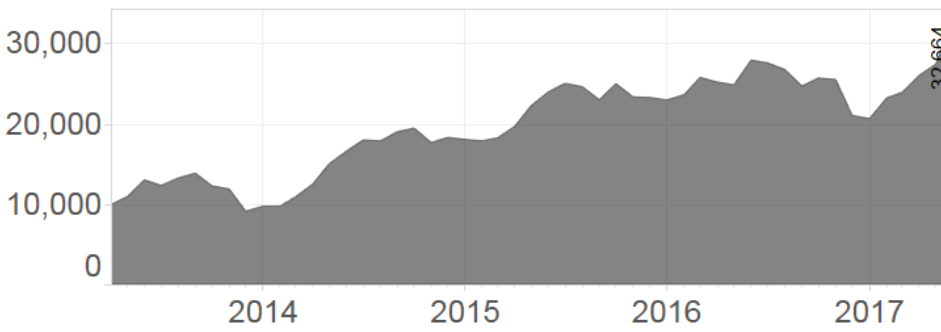
Propane, BPD



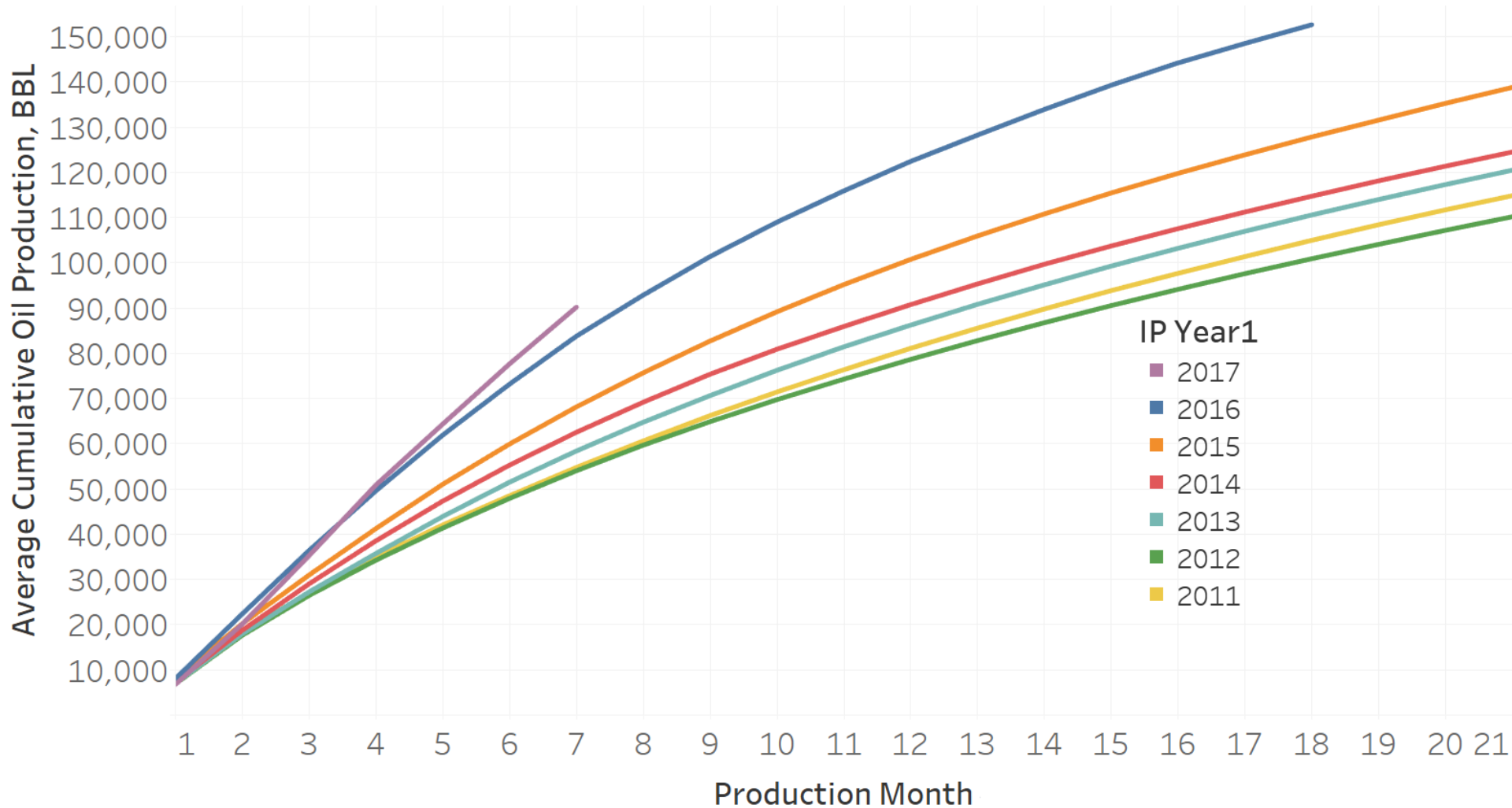
Butane, BPD



Natural Gasoline, BPD



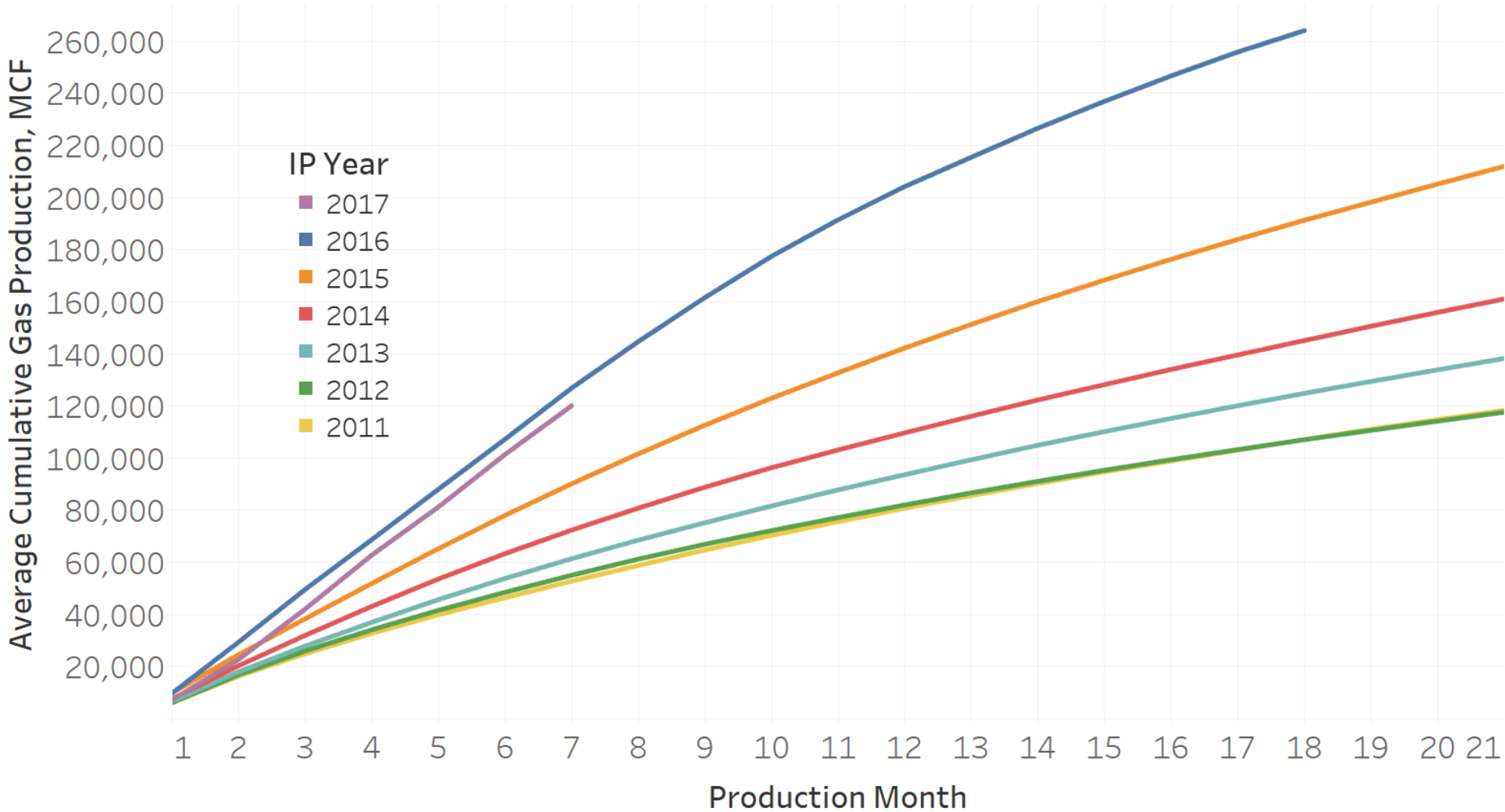
Statewide Oil Performance



Average BKN/TF Well Performance Statewide (Minimum 1 bopd)



Statewide Gas Performance



Average BKN/TF Well Performance Statewide (Minimum 1 bopd)



Contact Information

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