

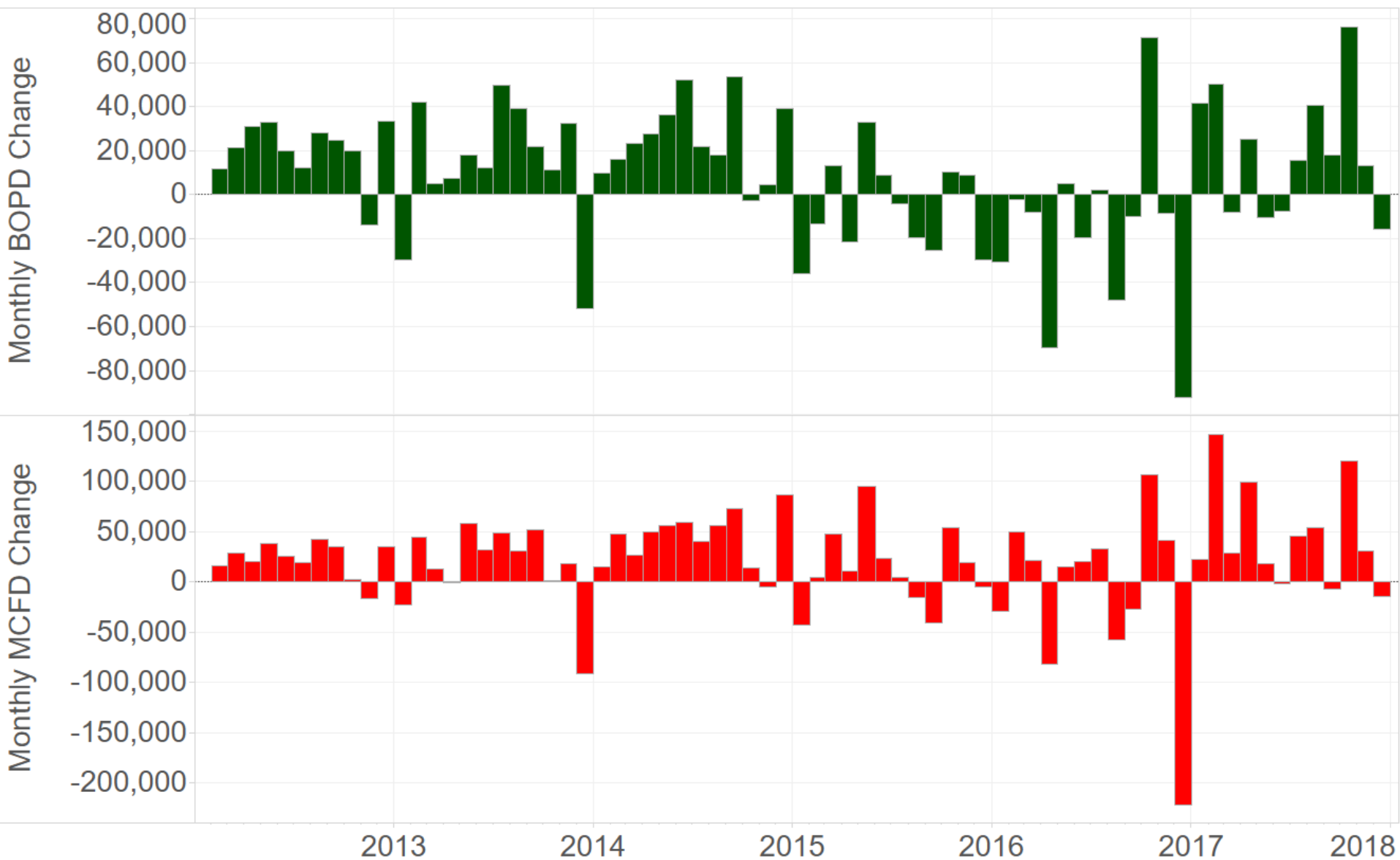
February 2018 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
February 15, 2018

US Williston Basin Oil Production - 2017

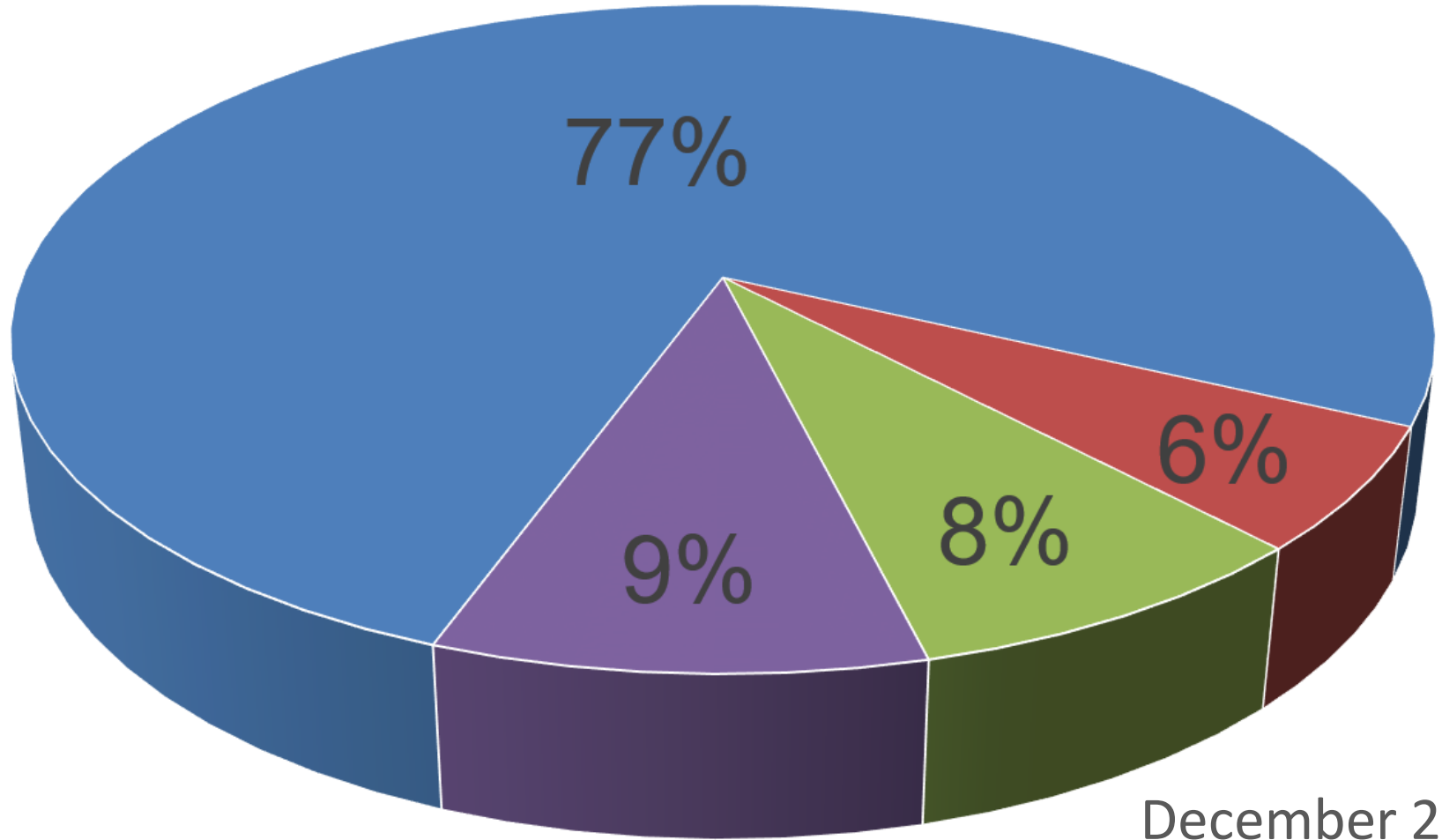
| MONTH | ND | Eastern MT* | SD | TOTAL |
|--------------|-----------|--------------------|-----------|--------------|
| January | 983,826 | 52,727 | 3,553 | 1,040,106 |
| February | 1,034,177 | 53,959 | 3,718 | 1,091,854 |
| March | 1,025,839 | 52,901 | 3,705 | 1,082,444 |
| April | 1,050,837 | 52,437 | 3,768 | 1,107,041 |
| May | 1,040,659 | 52,980 | 3,389 | 1,097,028 |
| June | 1,032,942 | 52,947 | 3,563 | 1,089,451 |
| July | 1,048,570 | 51,767 | 3,529 | 1,103,866 |
| August | 1,089,277 | 51,090 | 3,565 | 1,143,932 |
| September | 1,107,464 | 51,240 | 3,568 | 1,162,272 |
| October | 1,183,810 | 49,460 | 3,616 | 1,236,885 |
| November | 1,196,976 | 48,746 | 3,449 | 1,249,170 |
| December | 1,181,319 | | | |



Monthly Production Change



Estimated Williston Basin Oil Transportation



December 2017

■ Pipeline Export

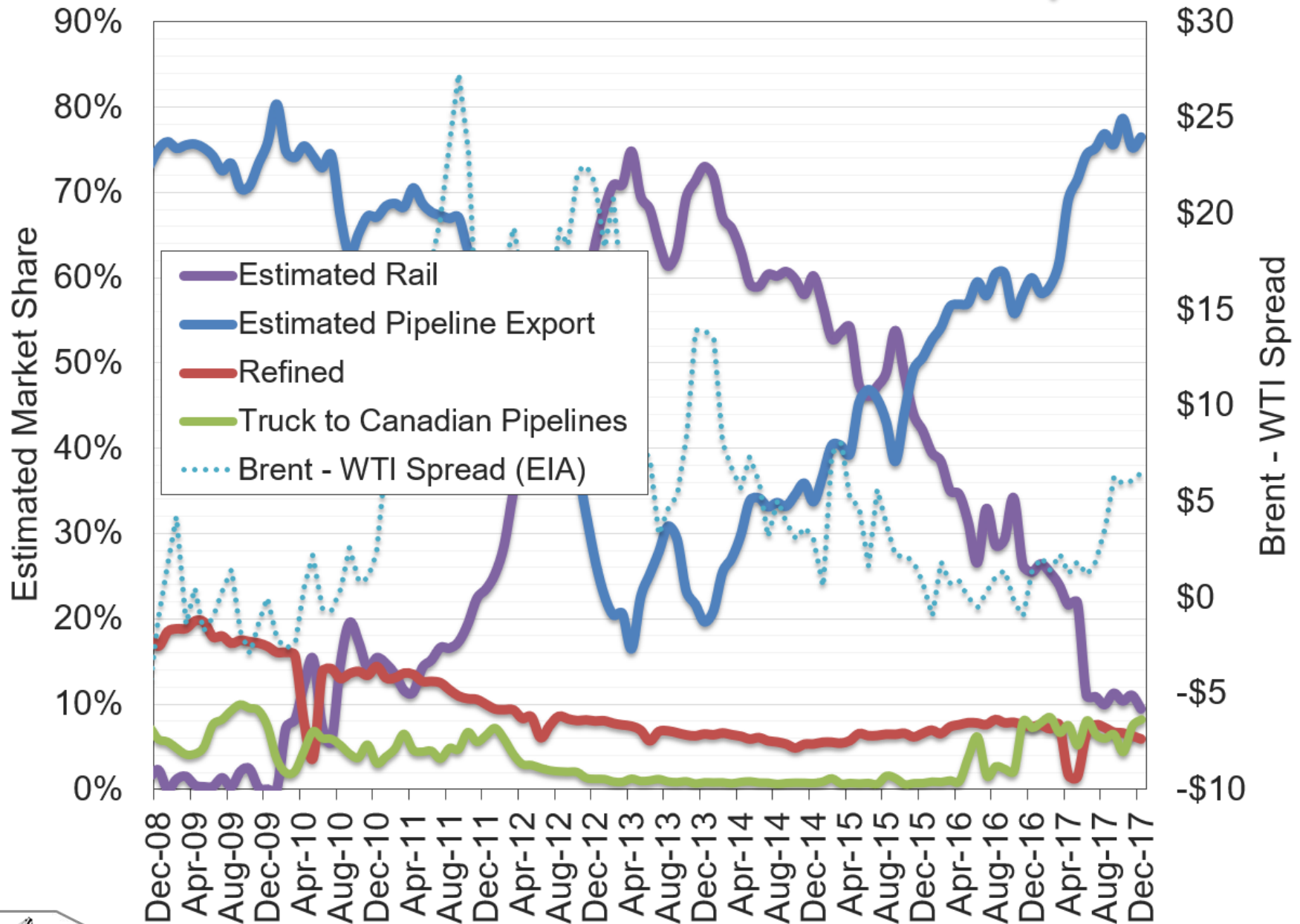
■ Refined

■ Truck to Canadian Pipelines

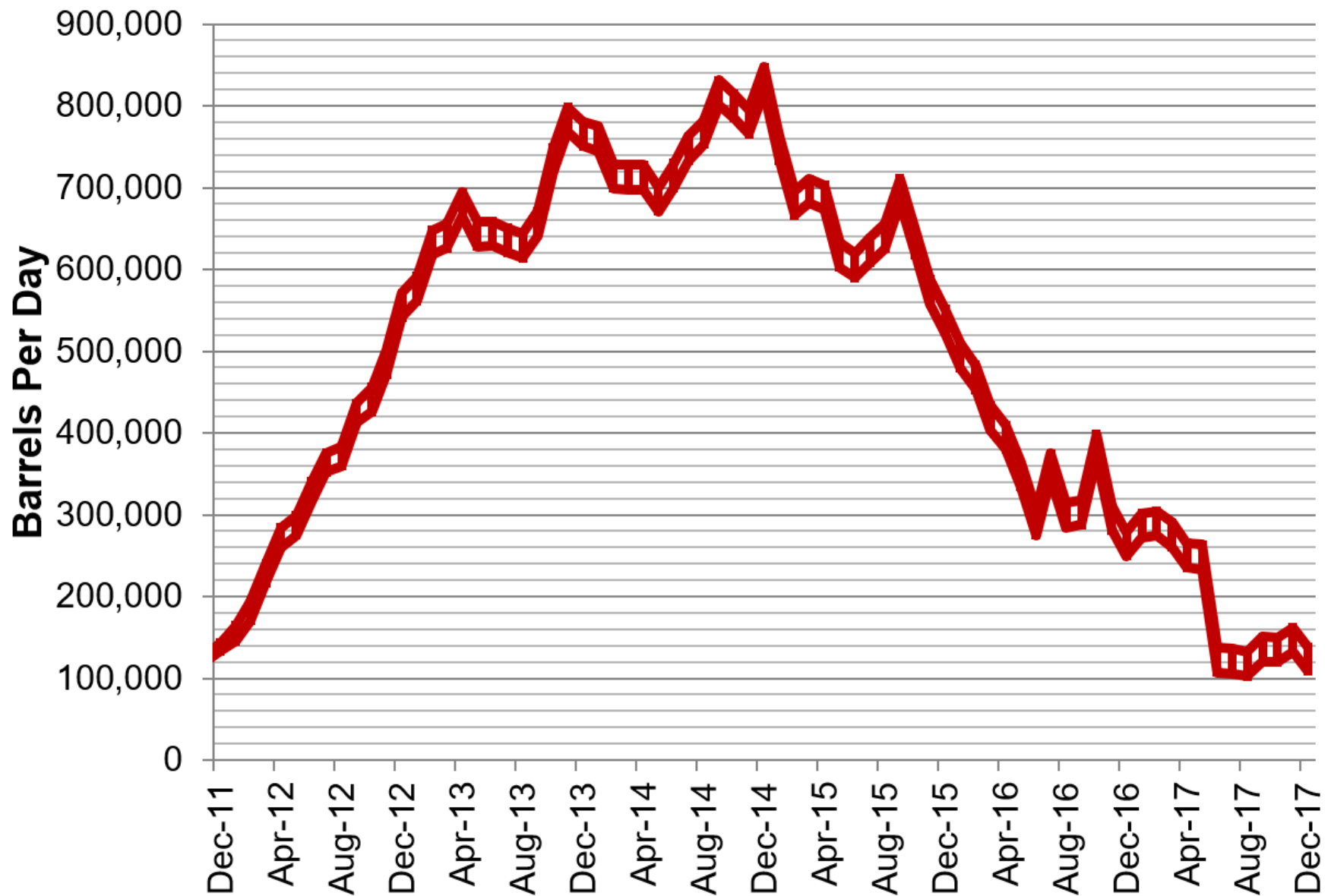
■ Estimated Rail



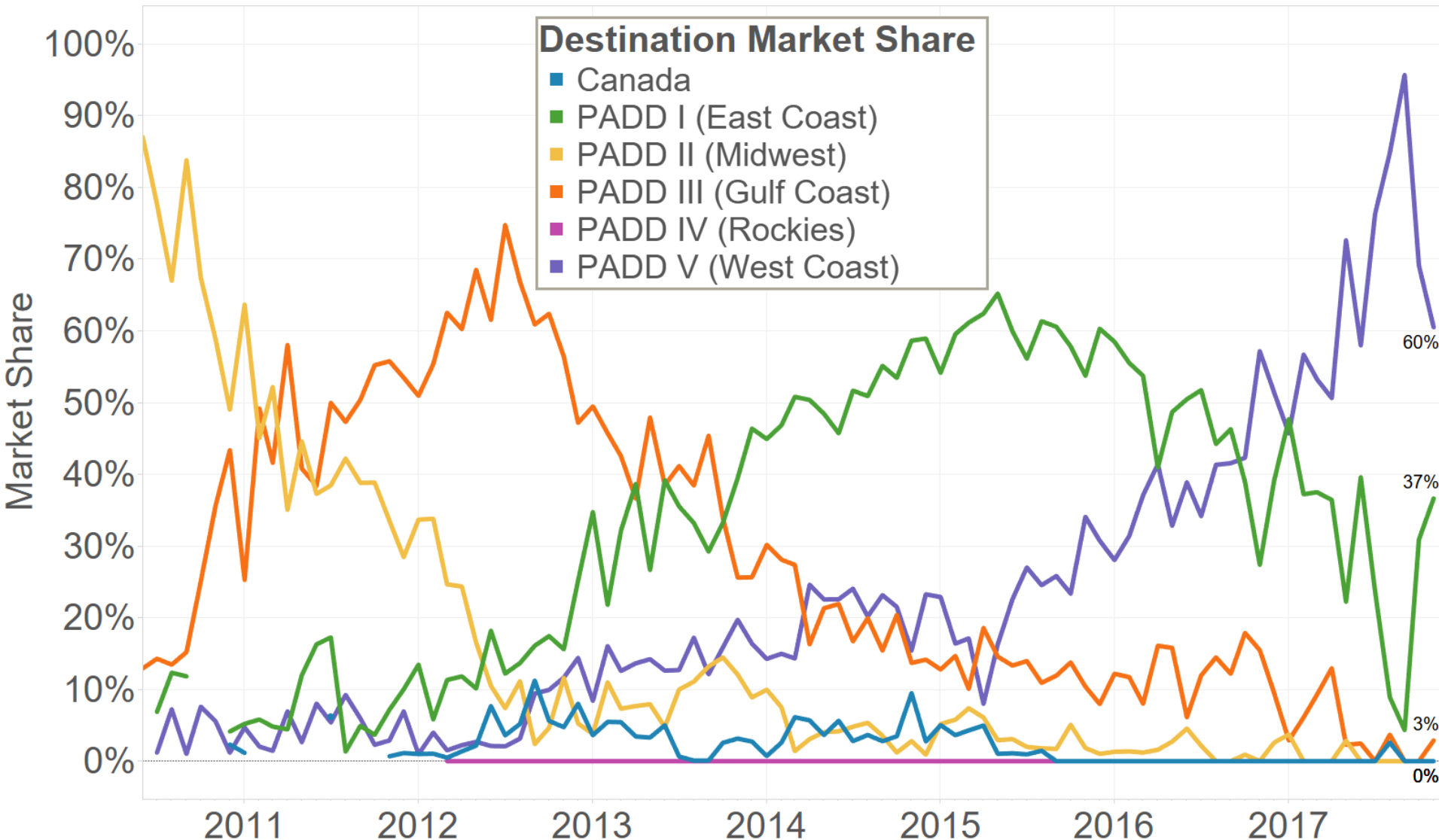
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



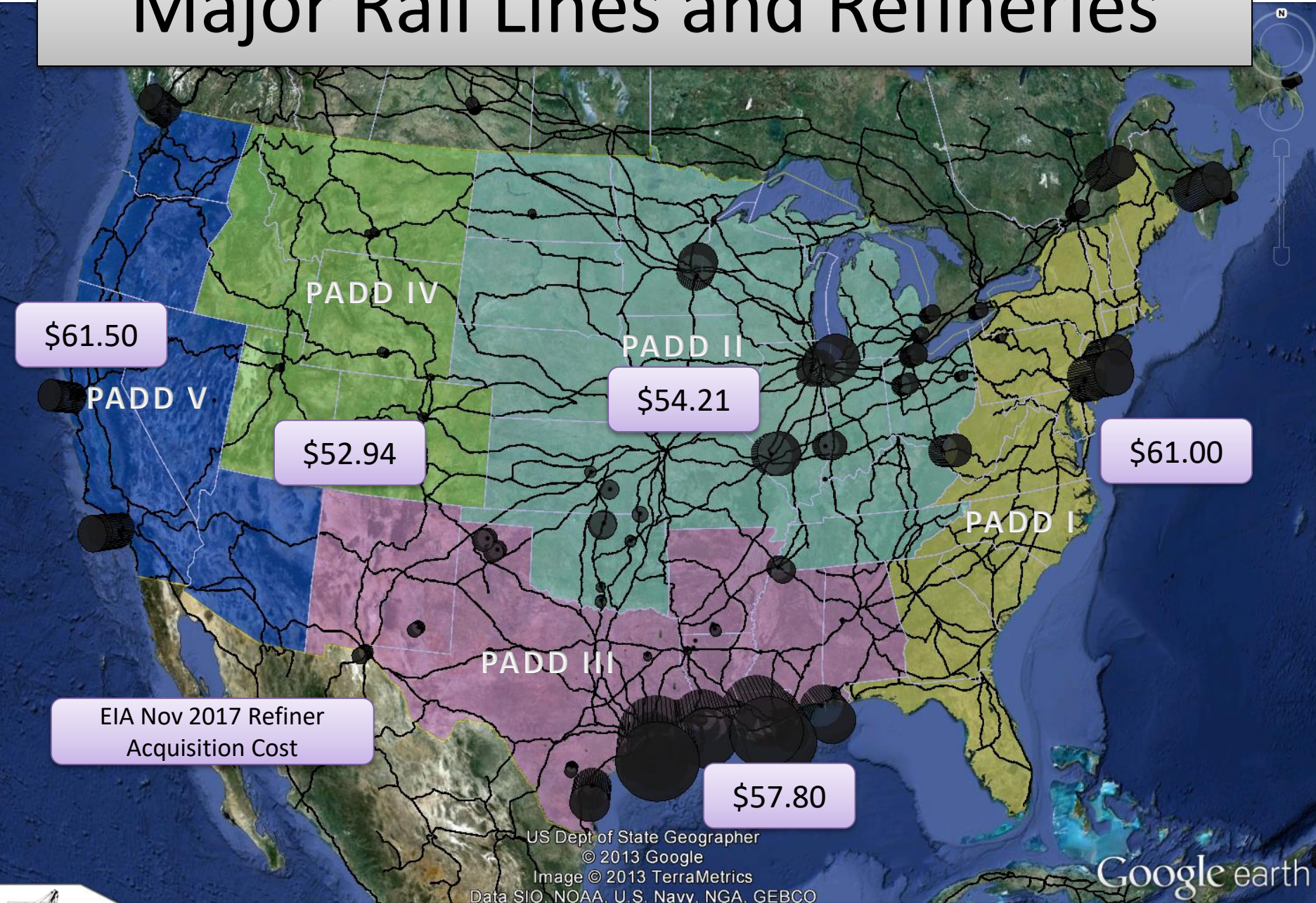
Rail Destinations Market Share (Nov 2017)



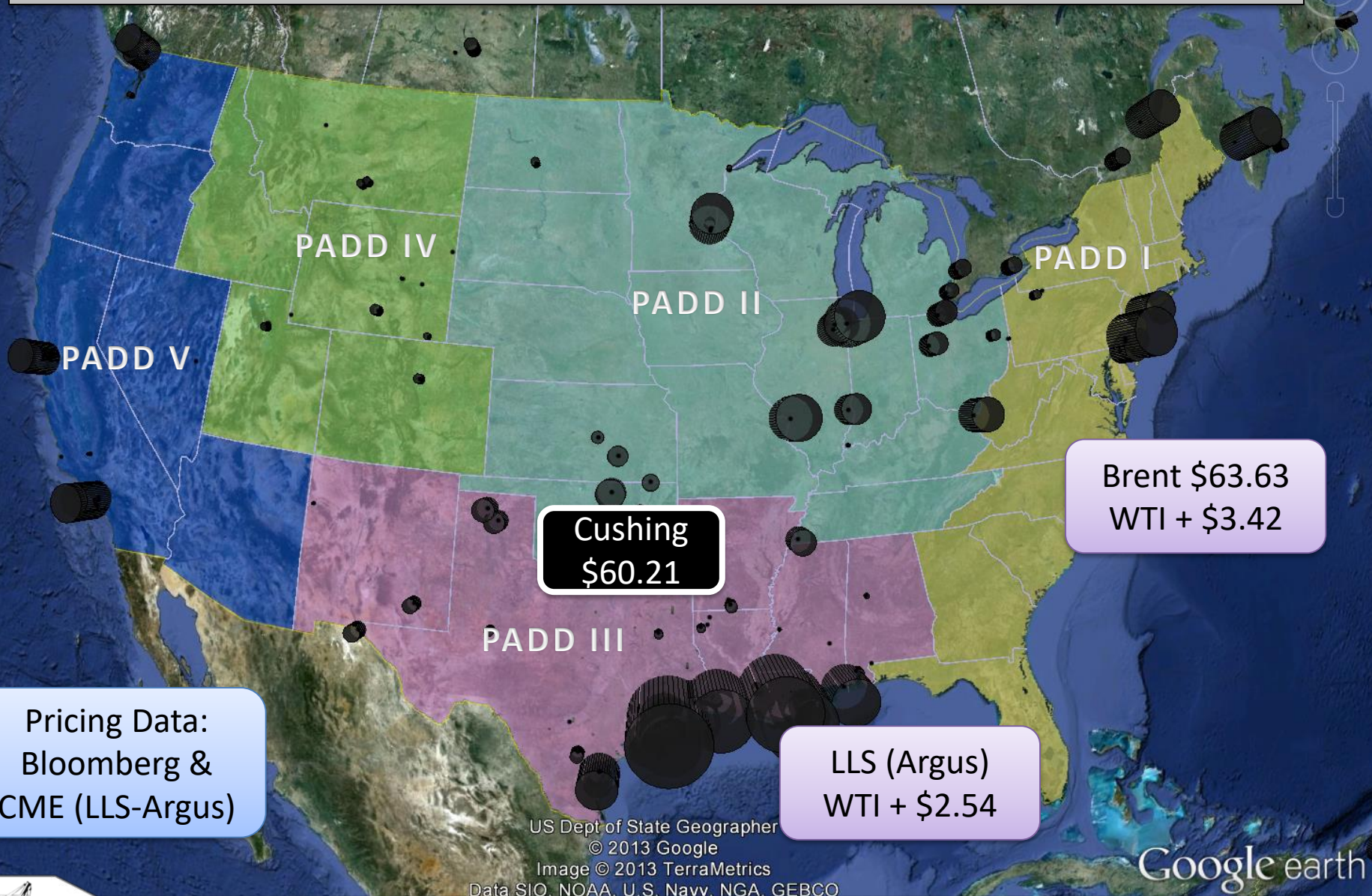
Data for Rail Destination Market Share Provided by the US Energy Information Administration



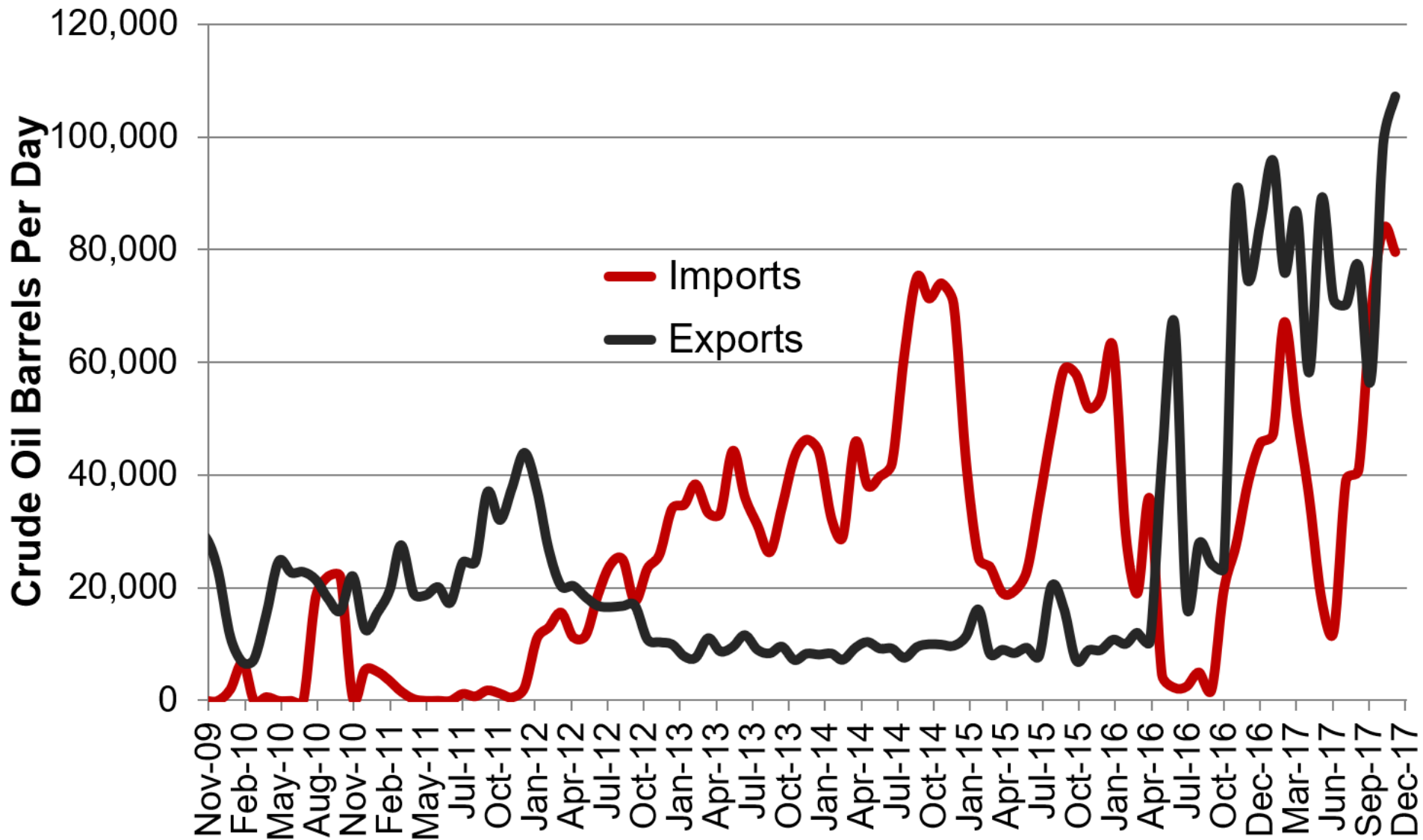
Major Rail Lines and Refineries



Crude Oil Prices – Feb. 15, 2018



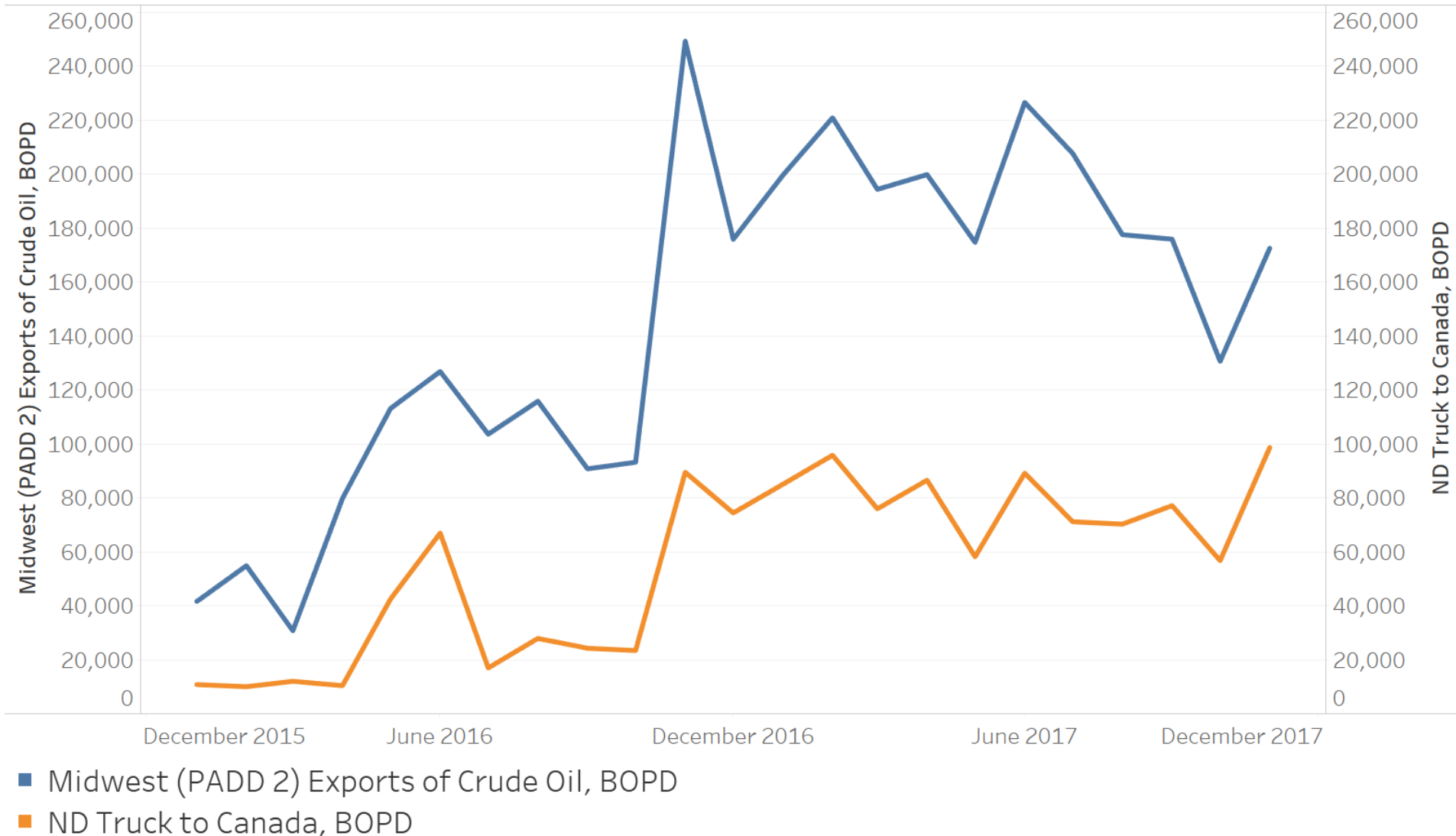
Williston Basin Truck Imports and Exports with Canada



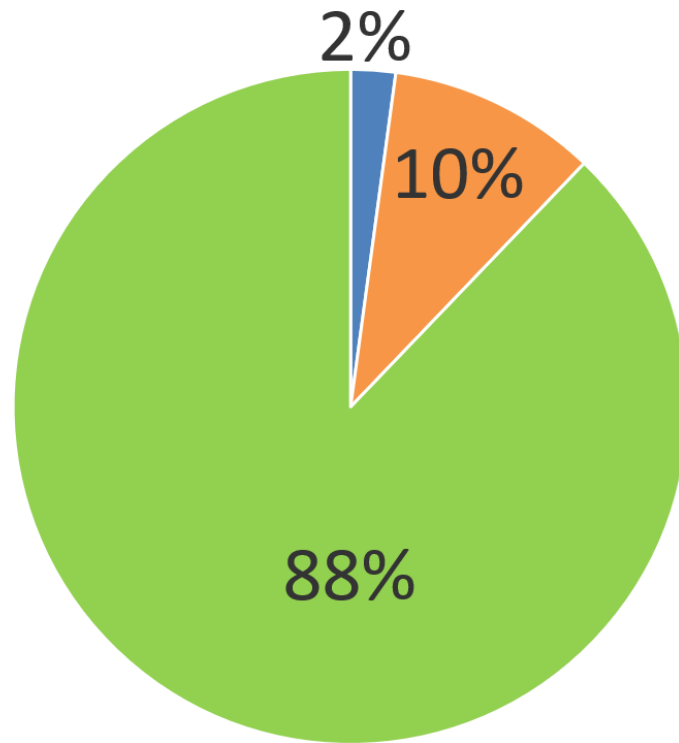
Data for truck imports/exports chart is provided by the US International Trade Commission



Comparison – EIA & USITC Exports



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.

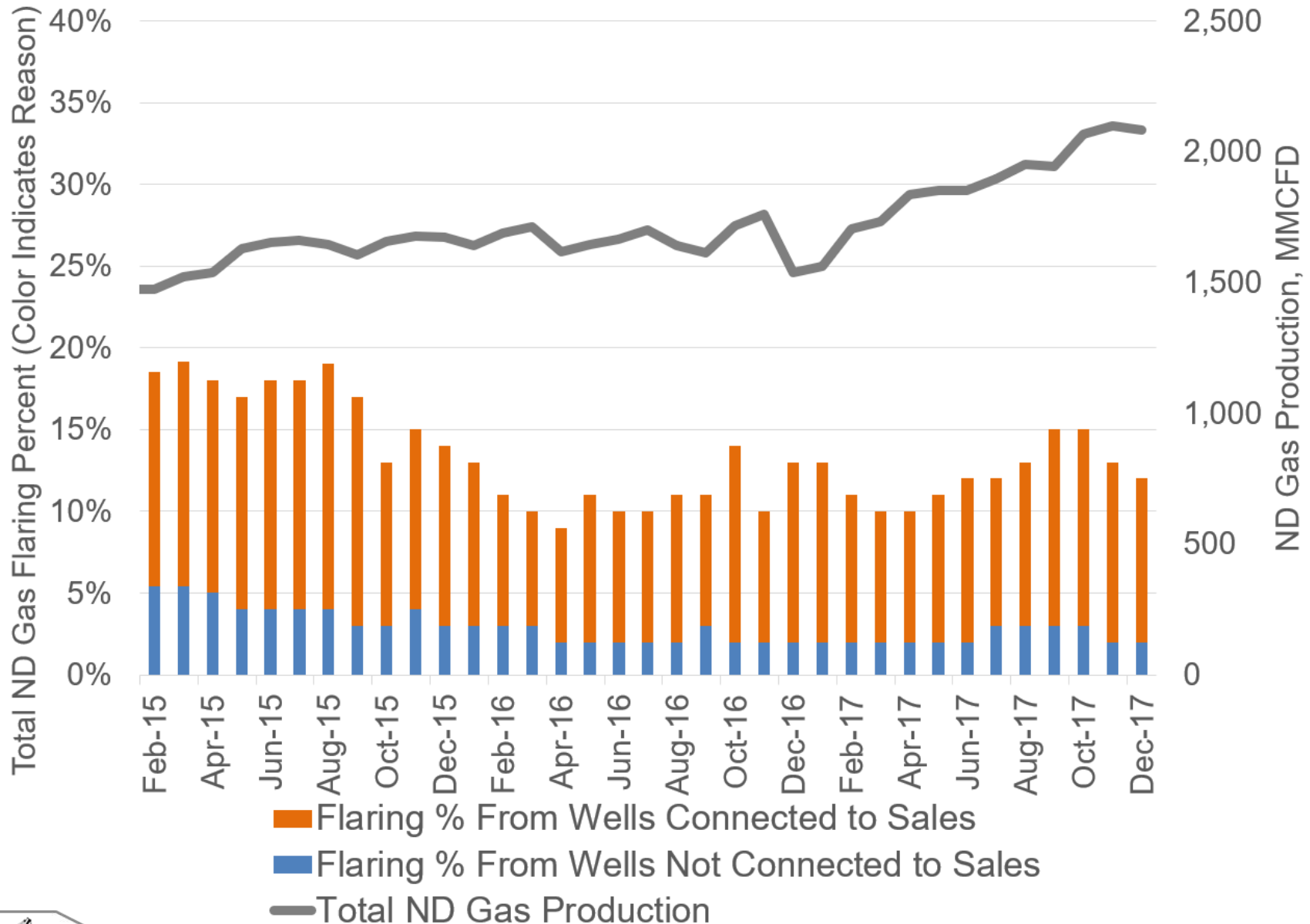
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

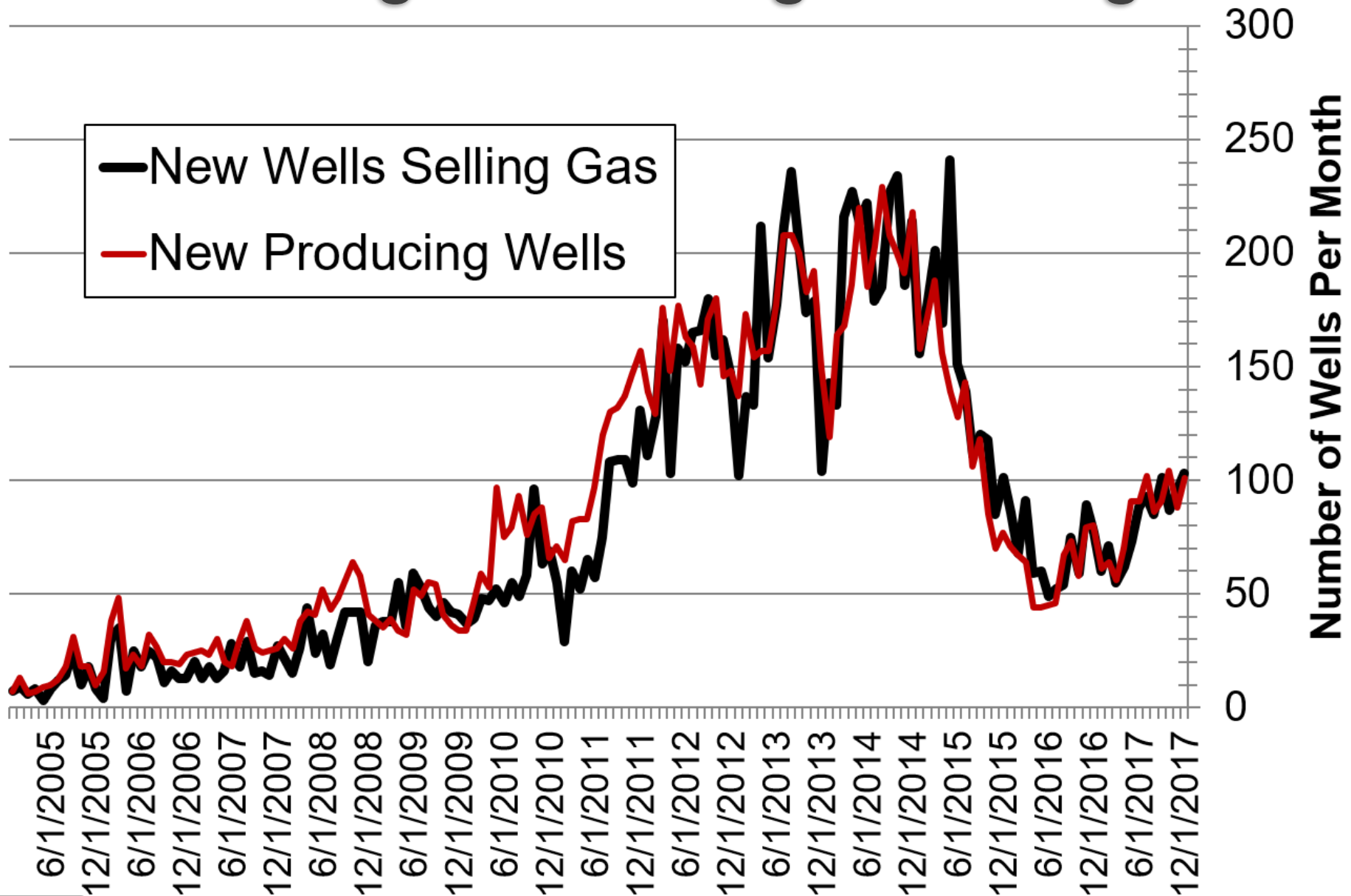
Dec 2017 Data – Non-Confidential Wells



Solving the Flaring Challenge



Solving the Flaring Challenge



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