



**Federal Railroad  
Administration**

# **Bakken Crude Oil Unit Trains & Marcellus LPG & Natural Gasoline**





## Federal Railroad Administration

**Due to Hydraulic Fracturing in North America the rail industry is witnessing a considerable increase in car loads of oil and gas.**



### Originated Carloads of Crude Oil on U.S. Class I Railroads



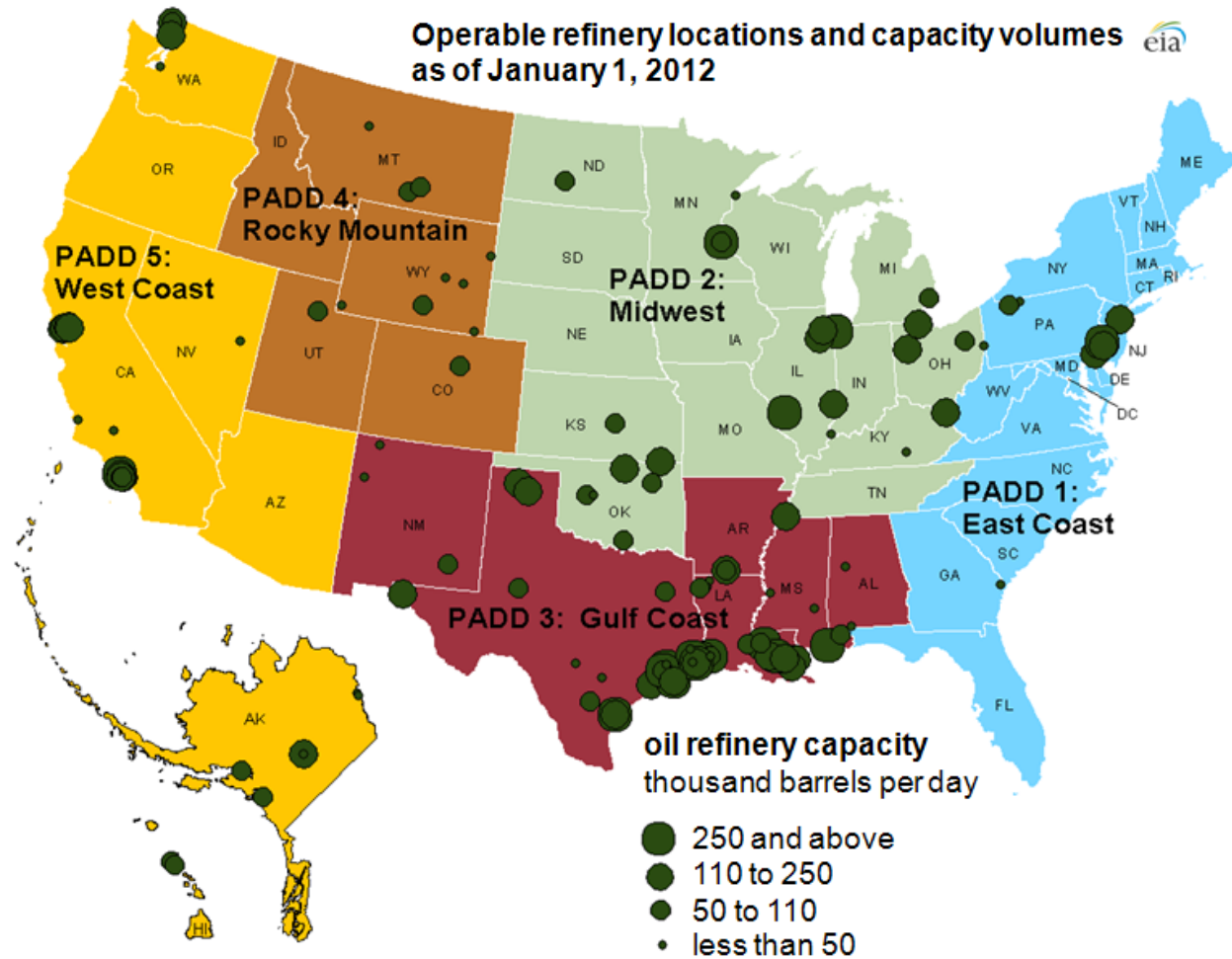
\*estimate based on first three quarters annualized Source: AAR



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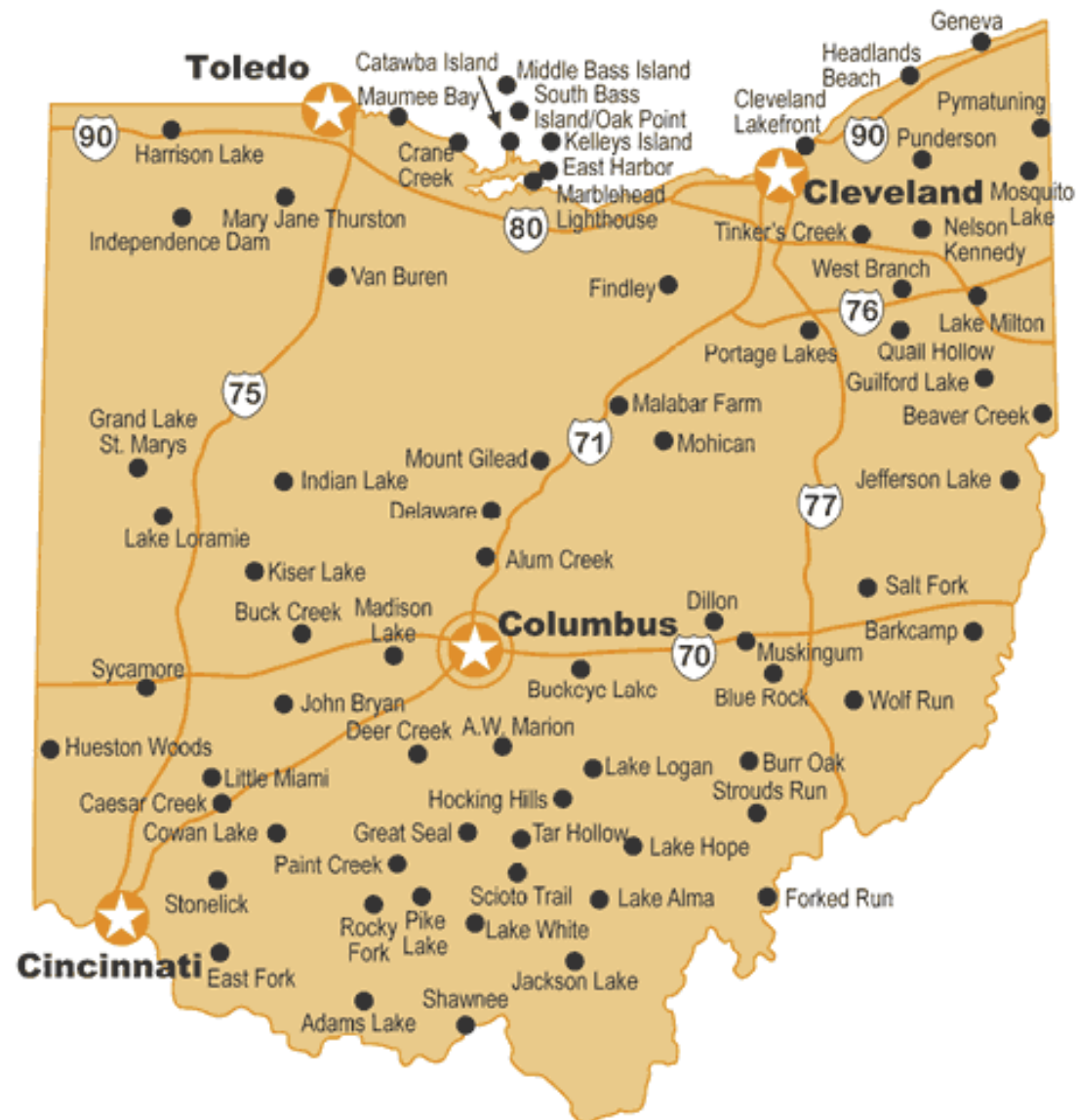


## Map of the US Refineries





# Choke Points In / Out of R2



## Crude Oil Trains Across Region 2





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## East Coast Marcellus & Utica Shale Deposits



# **Marcellus & Utica Shale Oil & Gas Facilities**

- 14 Oil & Gas Producing Facilities in R2 as of 2015
- Located in Eastern OH, Western PA and WV
- Producing up to 180 Tank Car Loads (30K Gallons) Per DAY... Per Facility... Do The Math...
- R2 Partnered w/ PHMSA & PUCO HazMat Inspectors in 2014, 2015 & 2016
- 2016 Inspection Results = High Compliance Rates



# LPG...? Think... Hank Hill...

## “PROPANE” and BUTANES





“Natural Gasoline” a.k.a. Pentane, Hydrocarbons NOS,  
Petroleum Distillates NOS... Think... Gasoline!





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# Questions?

**Joel Roberts:**  
**U.S. DOT/ Federal Railroad Administration**  
**Railroad Supervisory Specialist (HM)**

**[Joel.Roberts@dot.gov](mailto:Joel.Roberts@dot.gov)**

**(614) 886-3511**

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