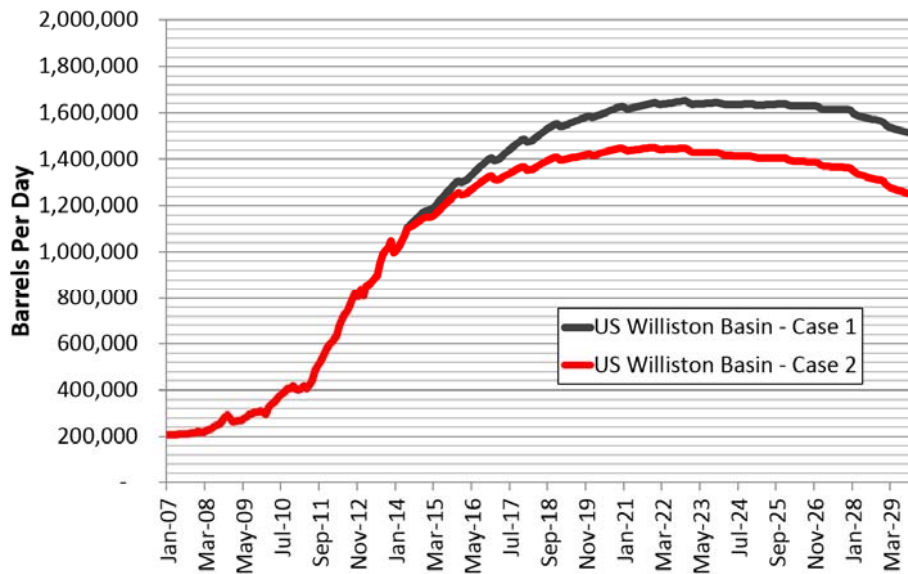




**Energy Development and Transmission Committee**  
**North Dakota Pipeline Authority**  
**Justin J. Kringstad**  
**July 8, 2014 - Bismarck, ND**

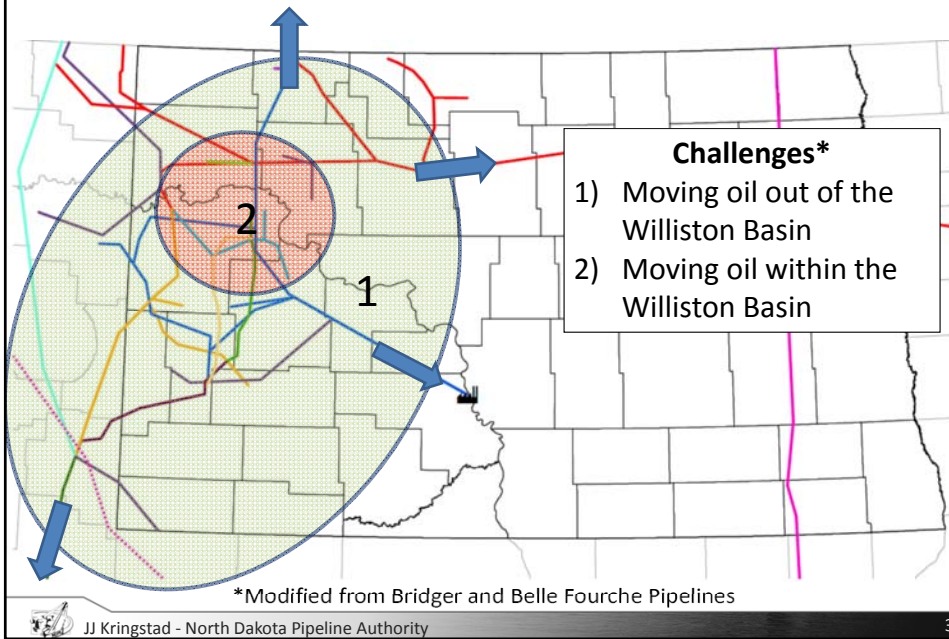
**Forecasting Williston Basin Oil Production, BOPD**



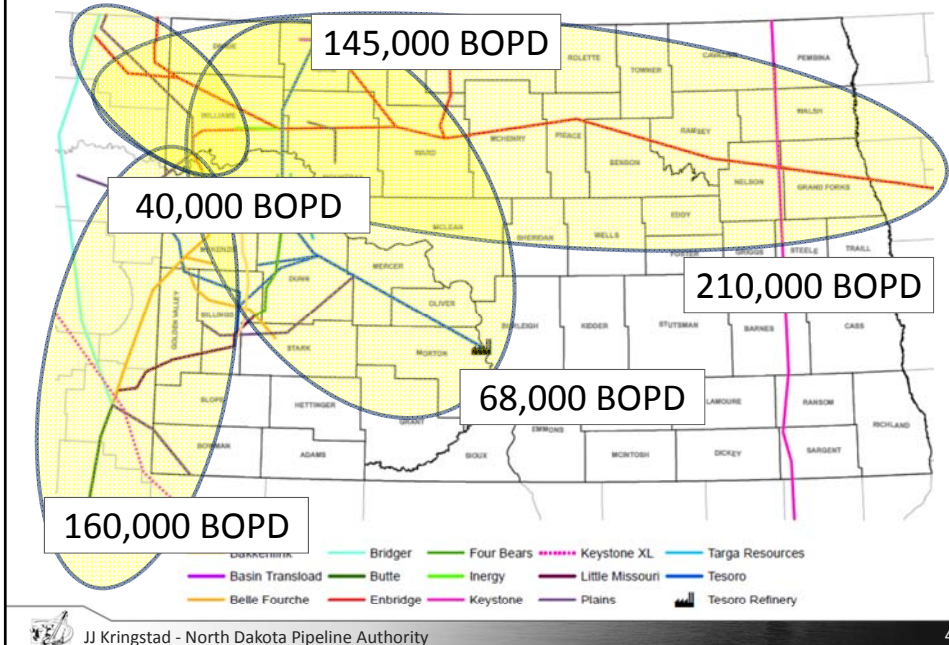
*Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.*



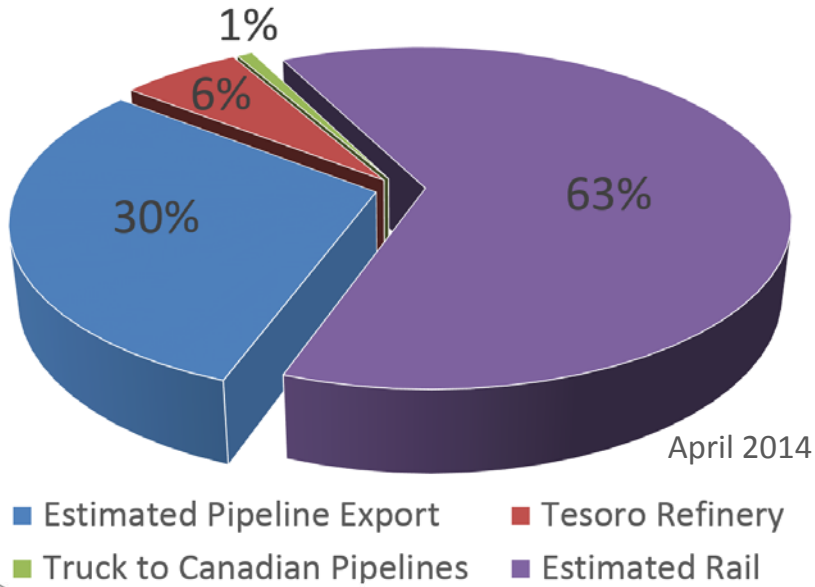
# North Dakota Crude Oil Pipelines



# North Dakota Crude Oil Pipelines



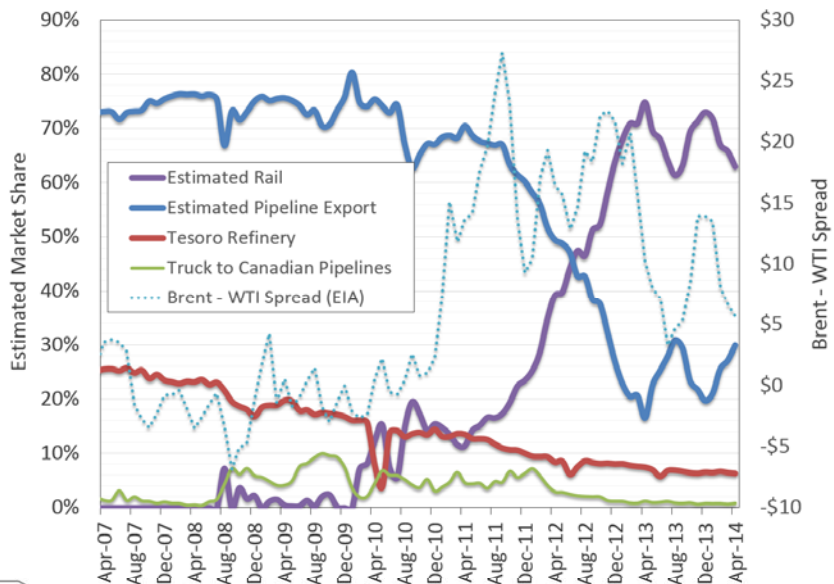
## Estimated Williston Basin Oil Transportation



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## Estimated Williston Basin Oil Transportation



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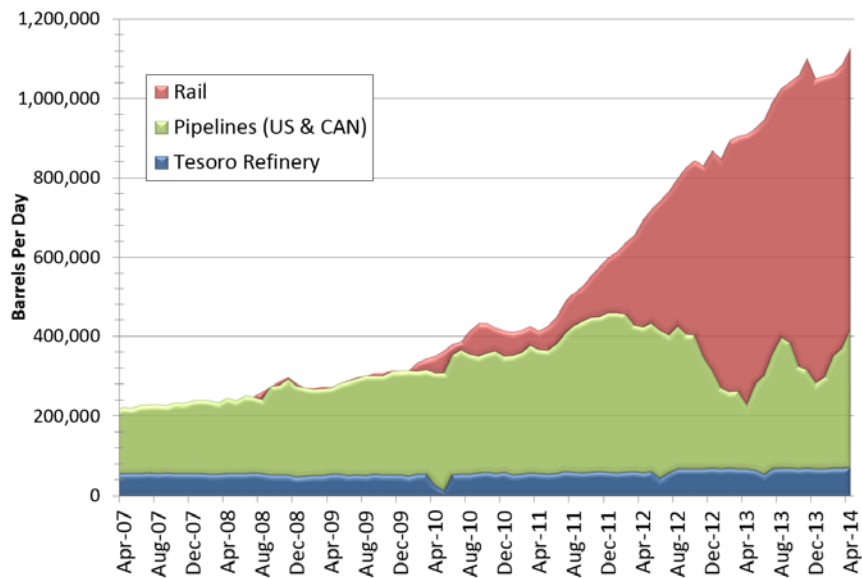
## Estimated ND Rail Export Volumes



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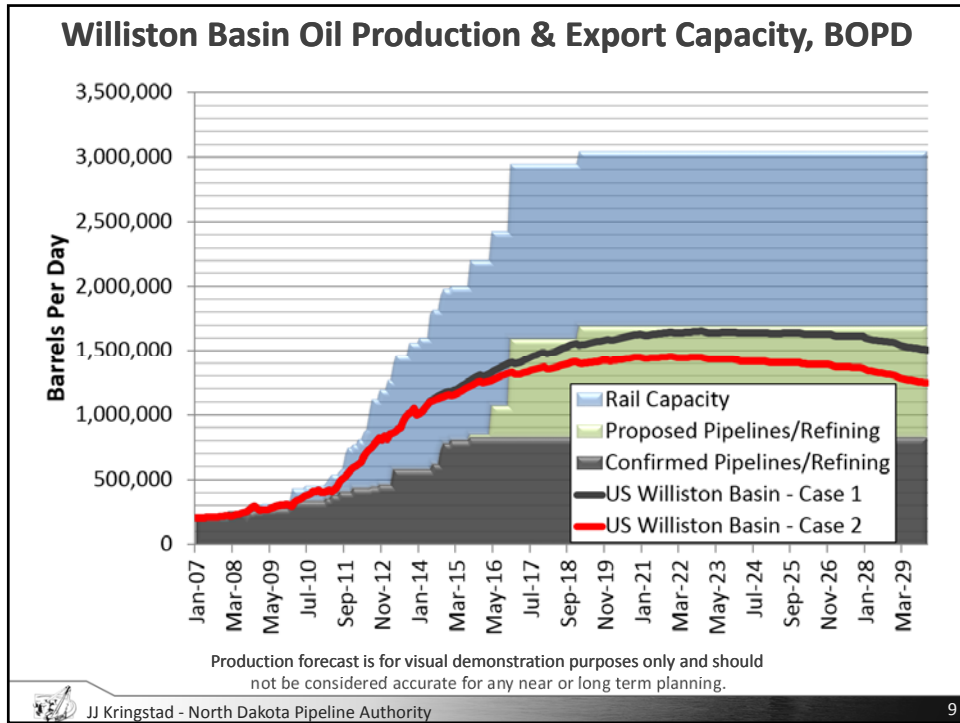
7

## Estimated Williston Basin Oil Transportation



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## Confirmed Pipeline Projects

- Butte Loop**
  - In-service Date: Q3 2014
  - 110,000 BOPD
  - Service to Guernsey, WY
  
- Hiland Double H**
  - In-service Date: Q4 2014
  - 50,000 BOPD (Expandable up to 100,000 BOPD)
  - Service to Guernsey, WY
  
- Plains Bakken North**
  - In-service Date: May 2014
  - 40,000 BOPD (Expandable up to 70,000 BOPD)
  - Movement North to Canadian Interconnect

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## Pipeline Projects In Business Development or Regulatory

### North Dakota Pipeline Company Sandpiper

- 225,000 BOPD
- Route: ND to Clearbrook, MN, 24" Clearbrook to Superior, WI, 30"
- In-service Date: Q1 2016

### Enterprise Pipeline

- 200,000-250,000 BOPD (Estimated ND Portion)
- Route: Stanley, ND to Cushing, OK 1,200 miles, 30"
- In-service Date: Q4 2016

### TransCanada Keystone XL

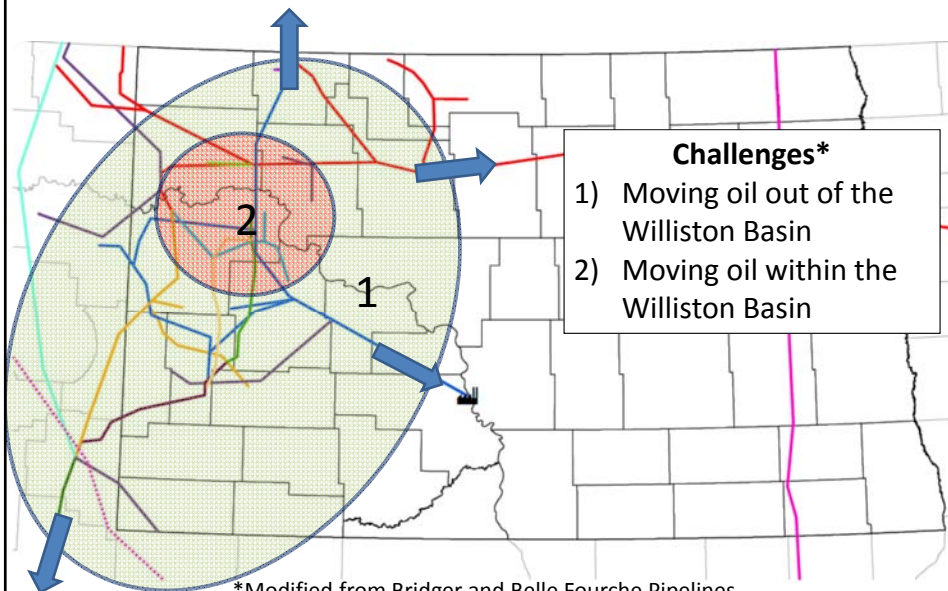
- Up to 100,000 BOPD
- Timeline Uncertain

### Energy Transfer Partners

- 320,000 BOPD
- Route: ND to Patoka, IL, 1,100 miles, 30"
- In-service Date: Q4 2016



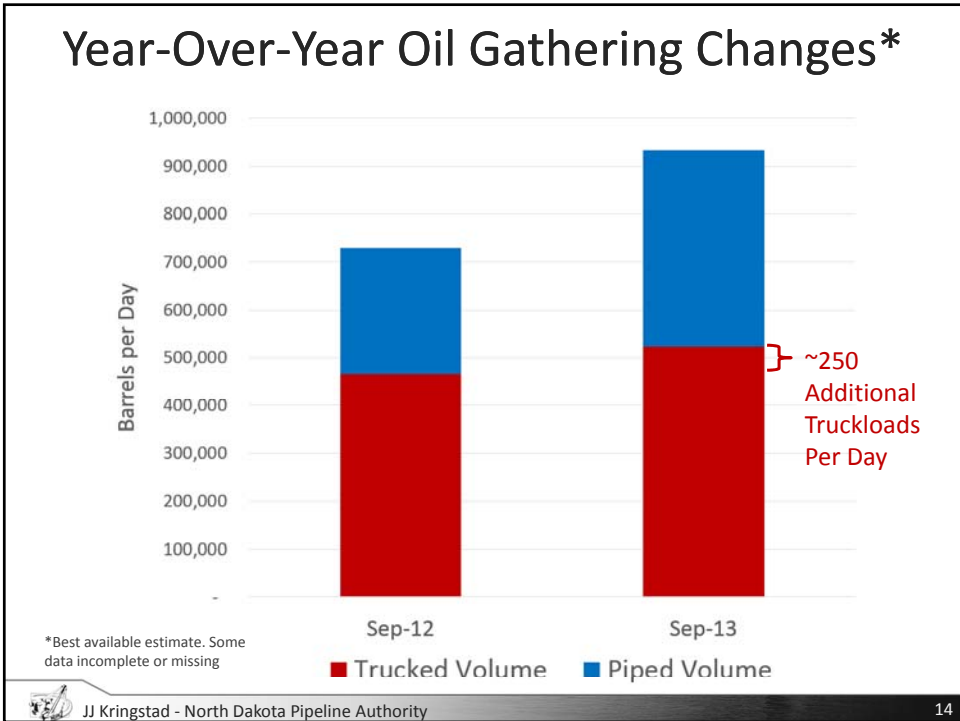
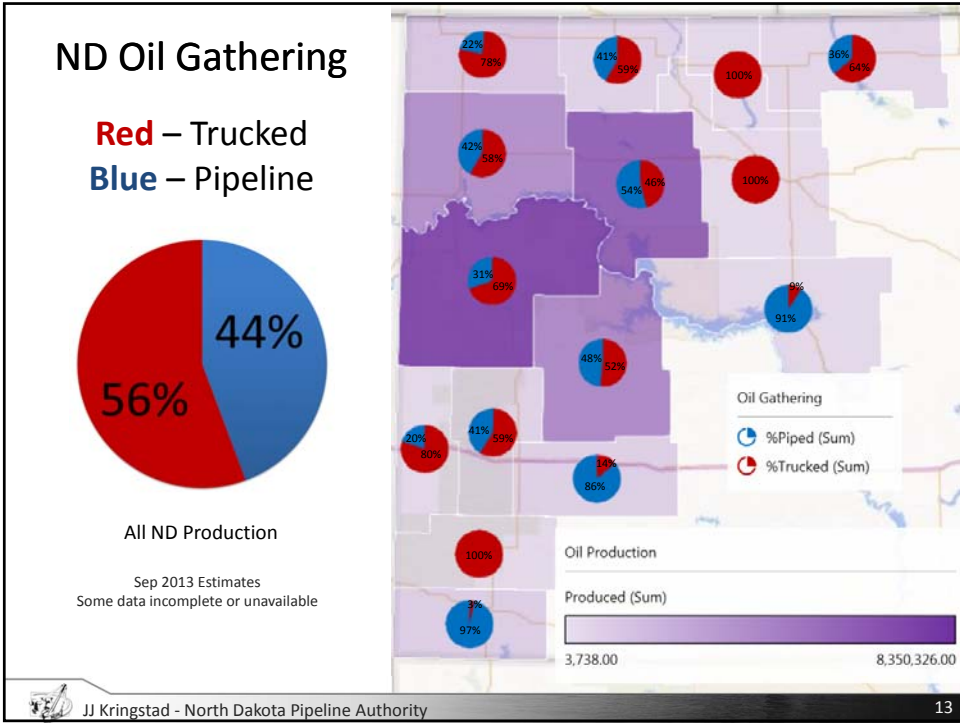
## North Dakota Crude Oil Pipelines



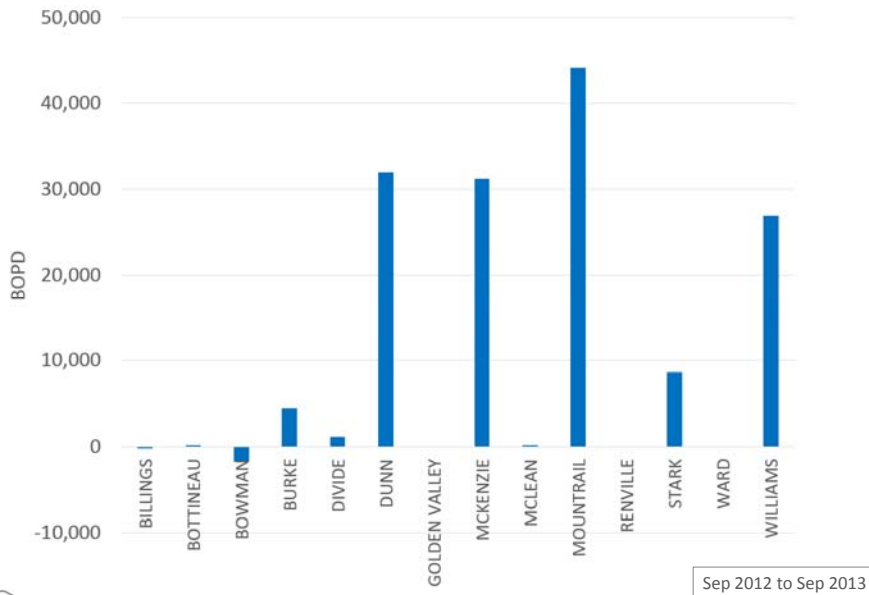
\*Modified from Bridger and Belle Fourche Pipelines







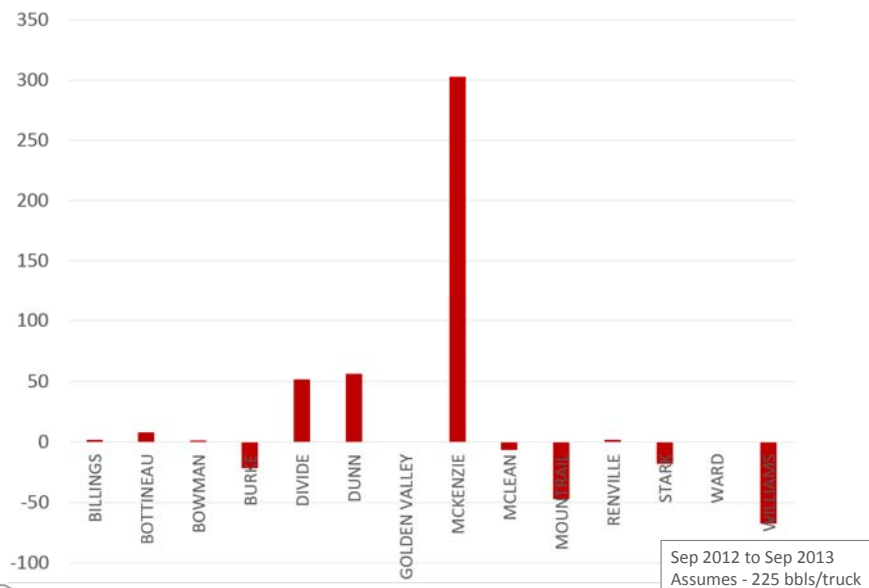
## Estimated YOY Oil Gathering Change



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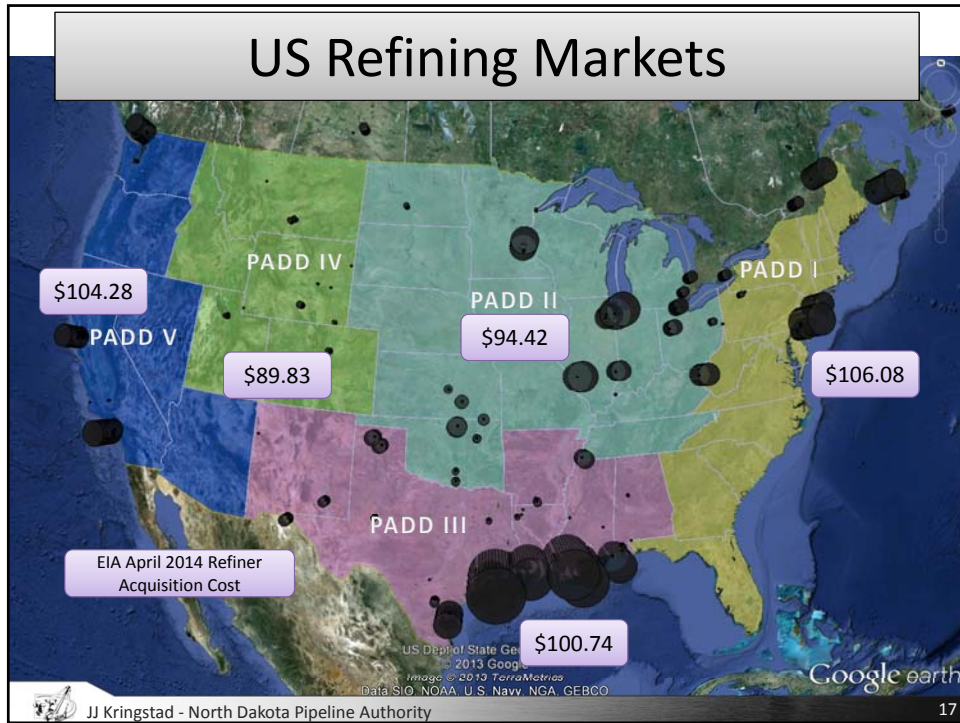
## Estimated YOY Daily Truckload Change



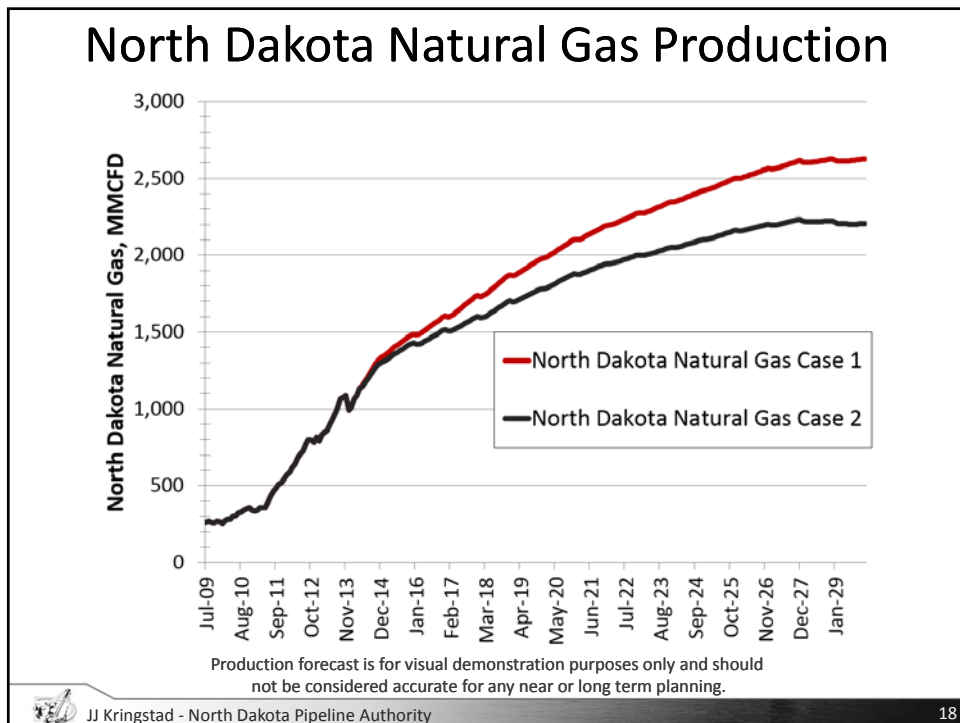
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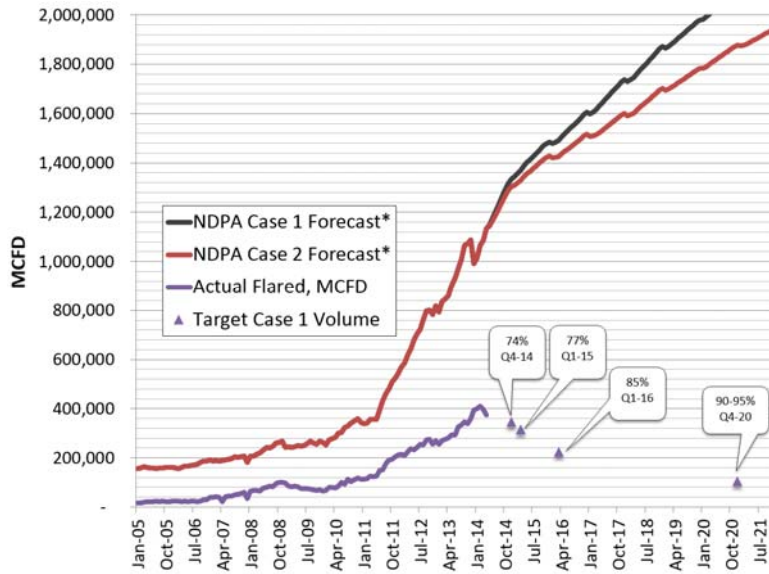


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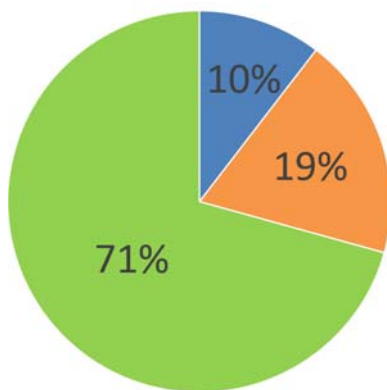


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## Solving the Flaring Challenge



## Solving the Flaring Challenge



Statewide

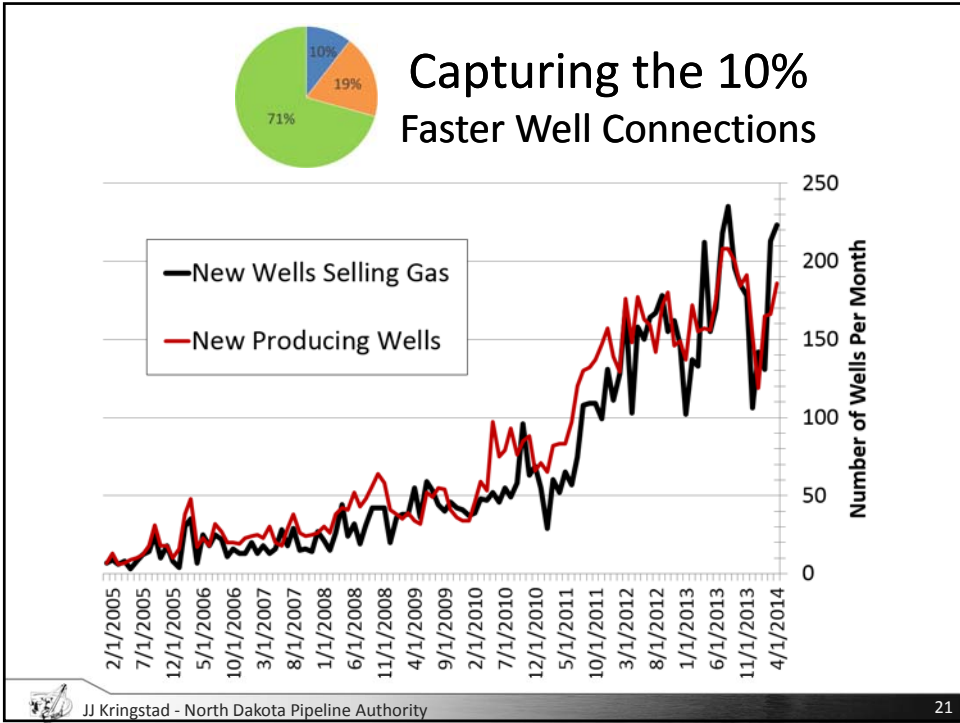
**GREEN** – % of gas captured and sold  
**Blue** – % flared from zero sales wells  
**Orange** – % flared from wells with at least one mcf sold.

### Simple Terms

**Blue** – Lack of pipelines  
**Orange** – Challenges on existing infrastructure

April 2014 Data – Non-Confidential Wells





## Major Gas Projects in Development

### WBI Energy – Dakota Pipeline

- 400-500 MMCFD
- 375 Miles, 24"
- Proposed In-service: 2017

### Northern Border – Bakken Header

- 400 MMCFD
- 55 Miles, 20"
- Proposed In-service: Late 2016

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## Contact Information

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[www.northdakotapipelines.com](http://www.northdakotapipelines.com)



Know what's **below.**  
**Call before you dig.**



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