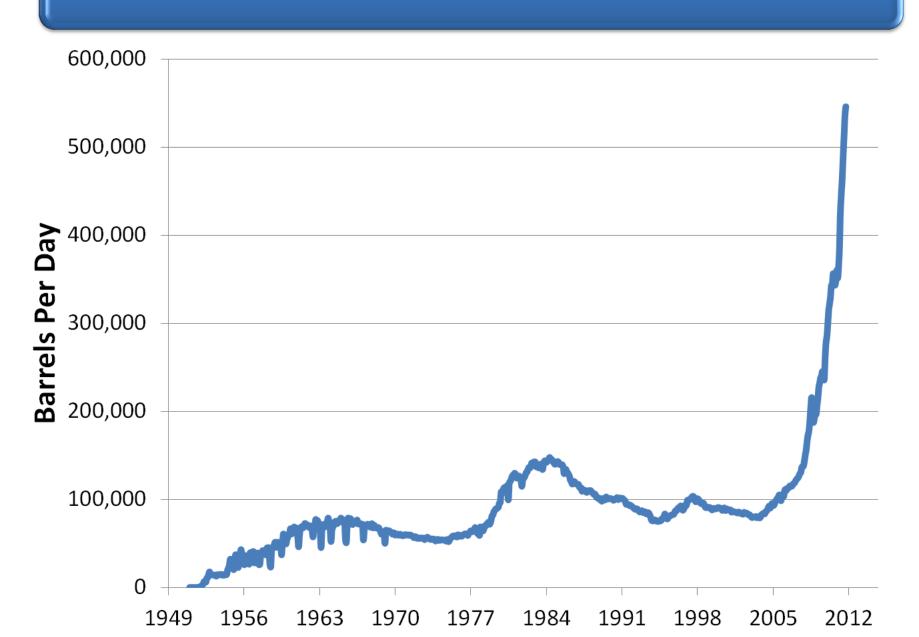
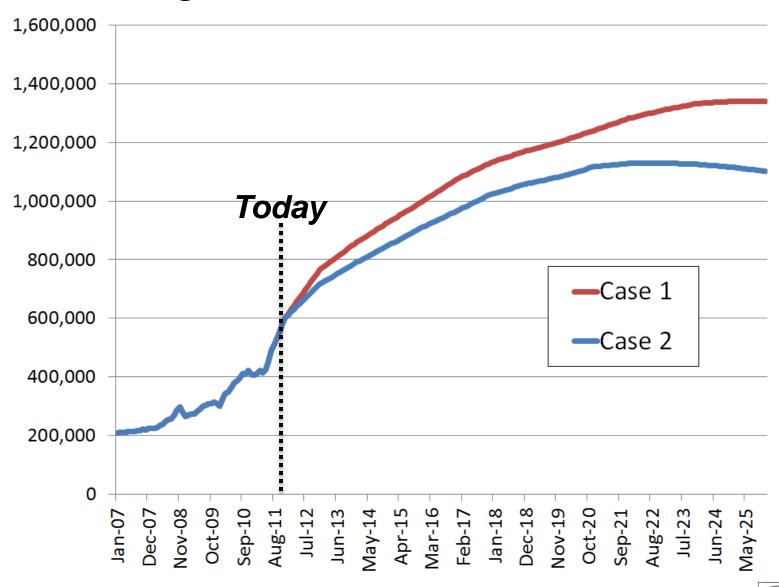


North Dakota Pipeline Authority
Energy Development and Transmission Committee
Justin J. Kringstad
March 20, 2012

North Dakota Crude Oil

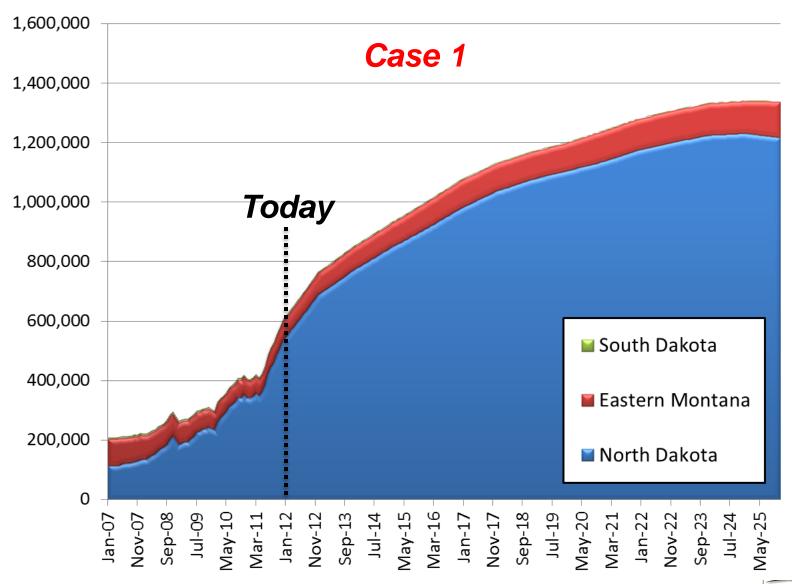


Forecasting Williston Basin Oil Production, BOPD

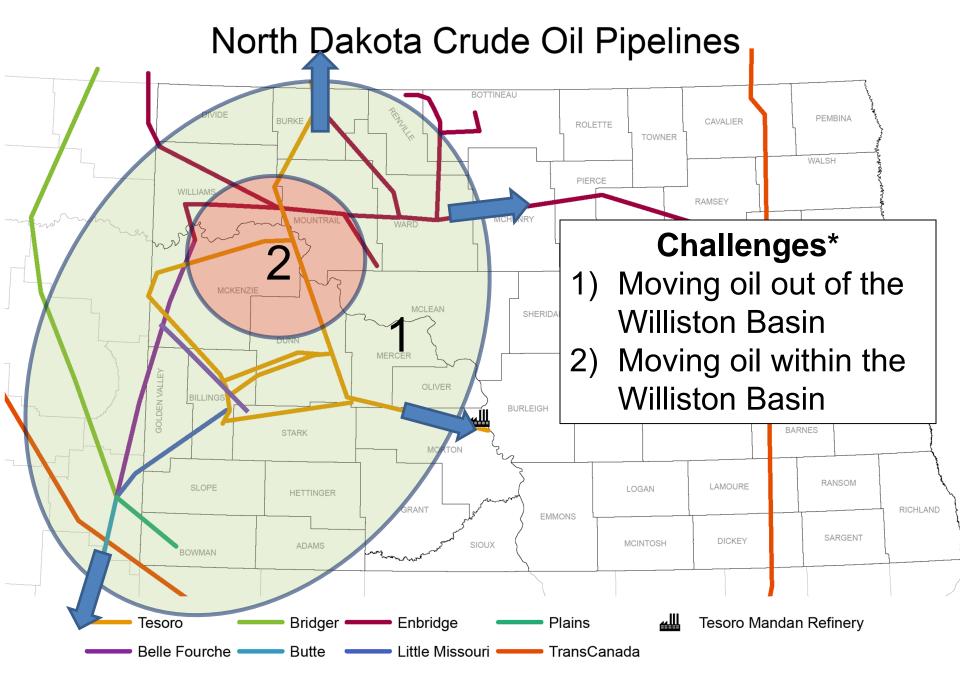


Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

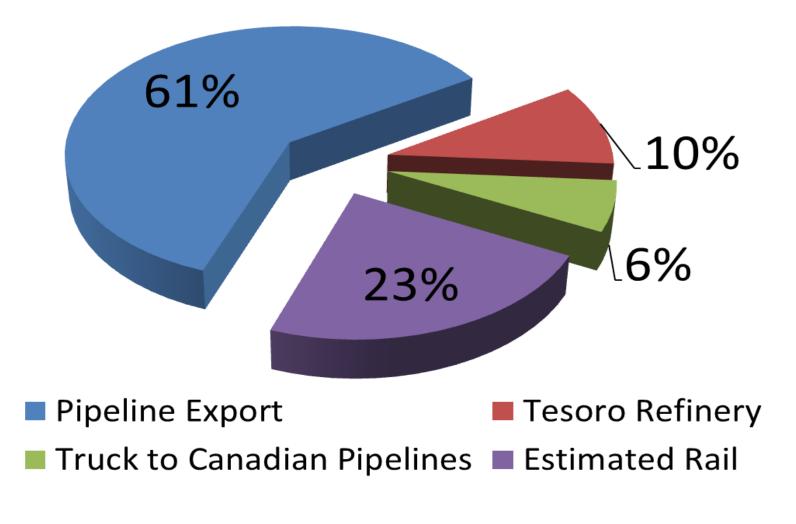
Forecasting Williston Basin Oil Production, BOPD



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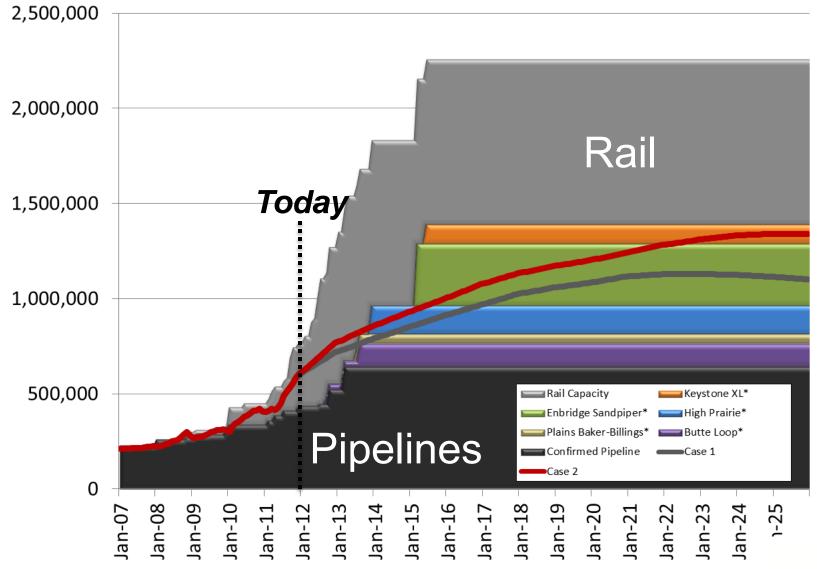


Williston Basin Oil Transportation



December 2011 Estimates

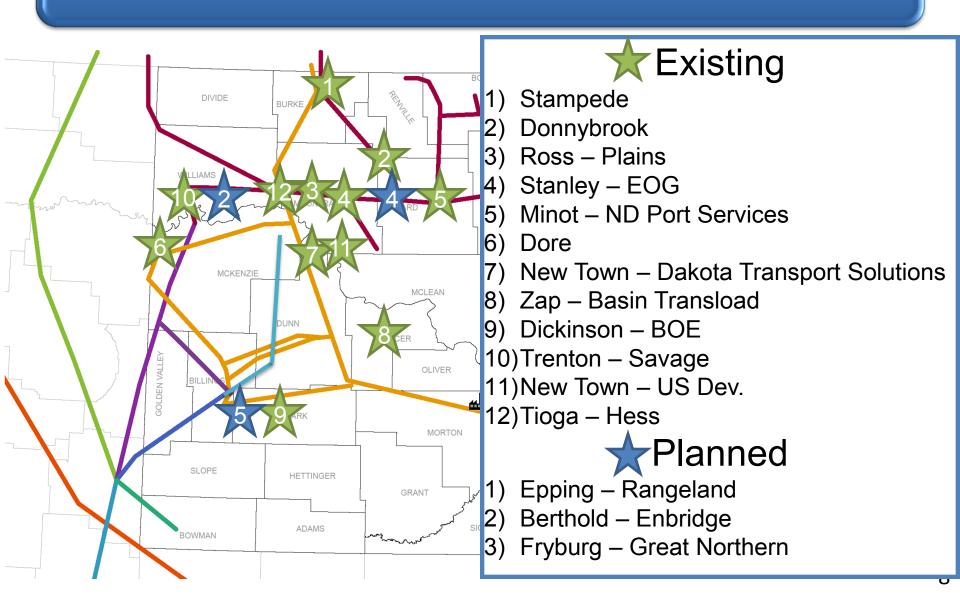
Williston Basin Oil Production & Export Capacity, BOPD



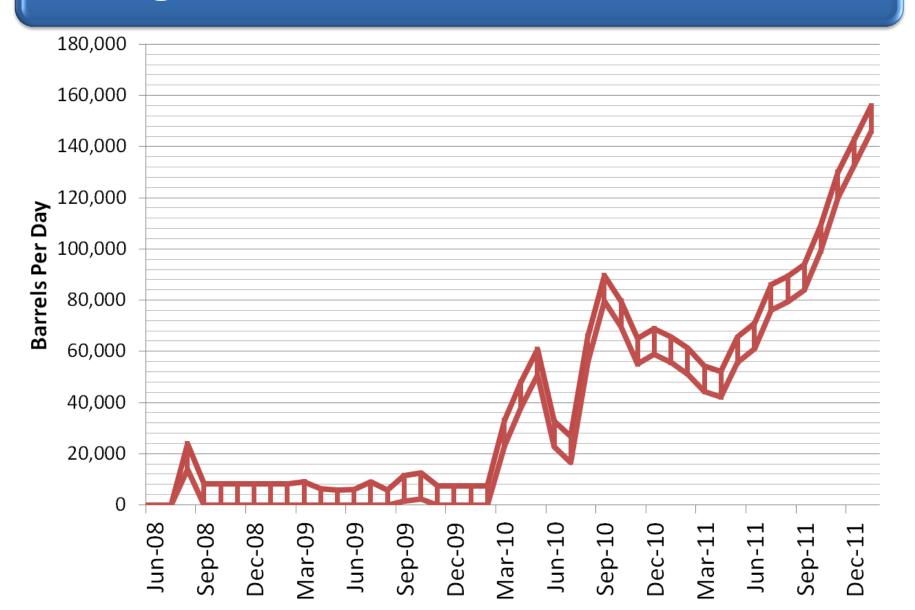
Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

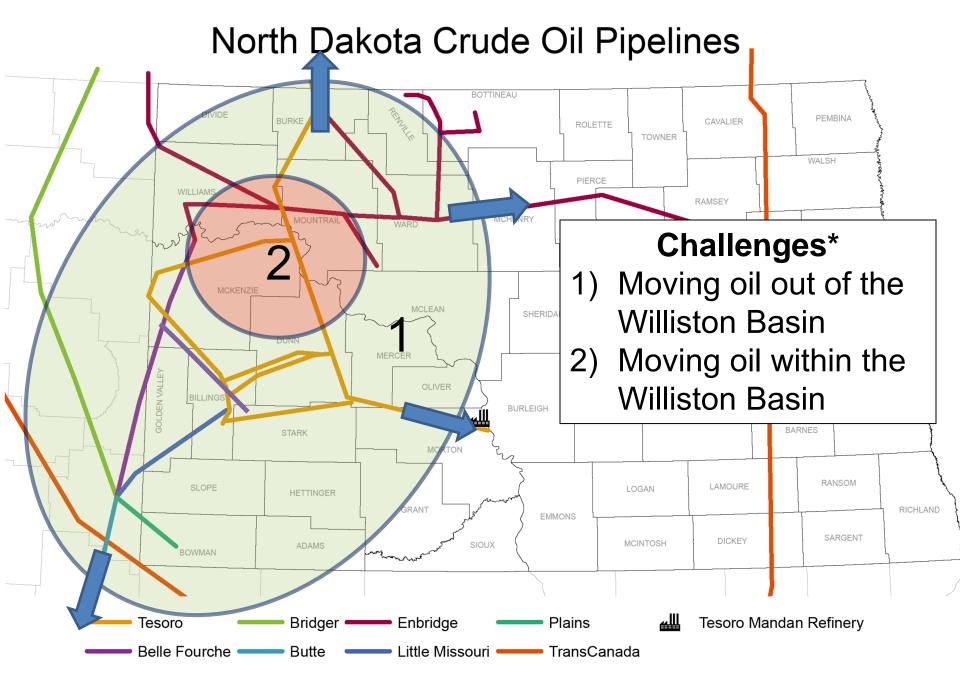
*Projects still in the proposed or internal review process

Existing & Planned Rail Locations



High-Low Rail Estimate, BOPD

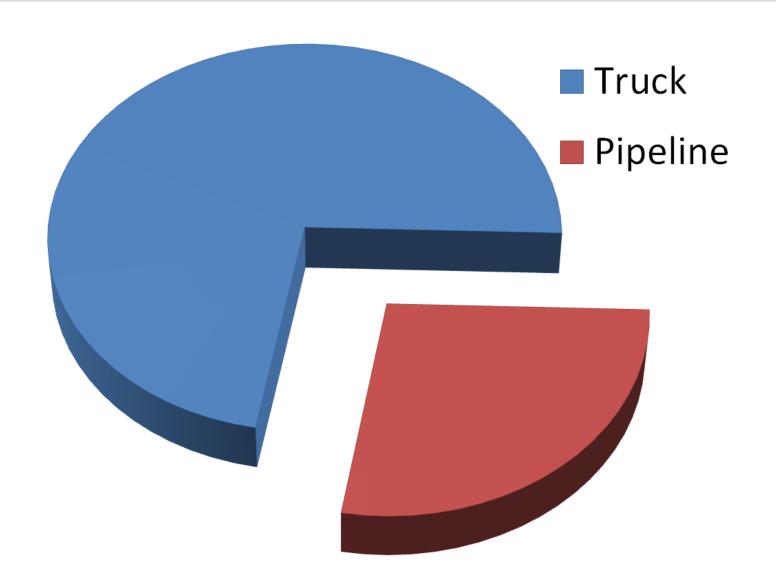




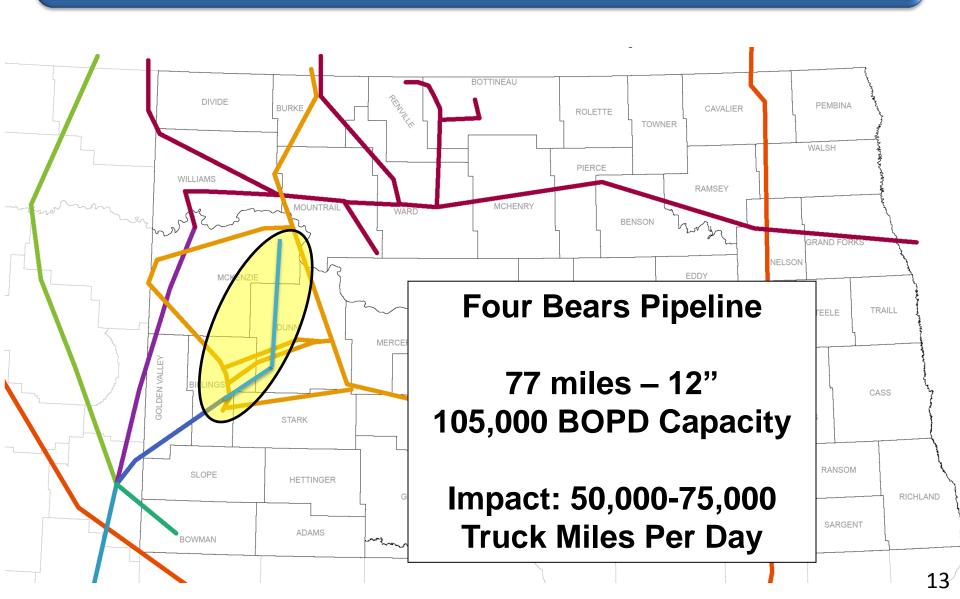
North Dakota Crude Gathering



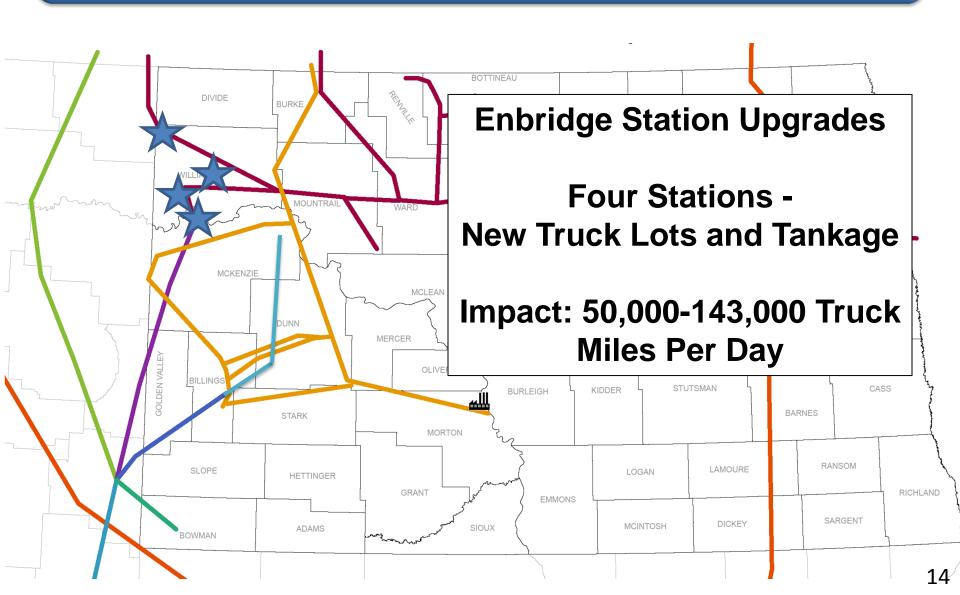
North Dakota Crude Gathering



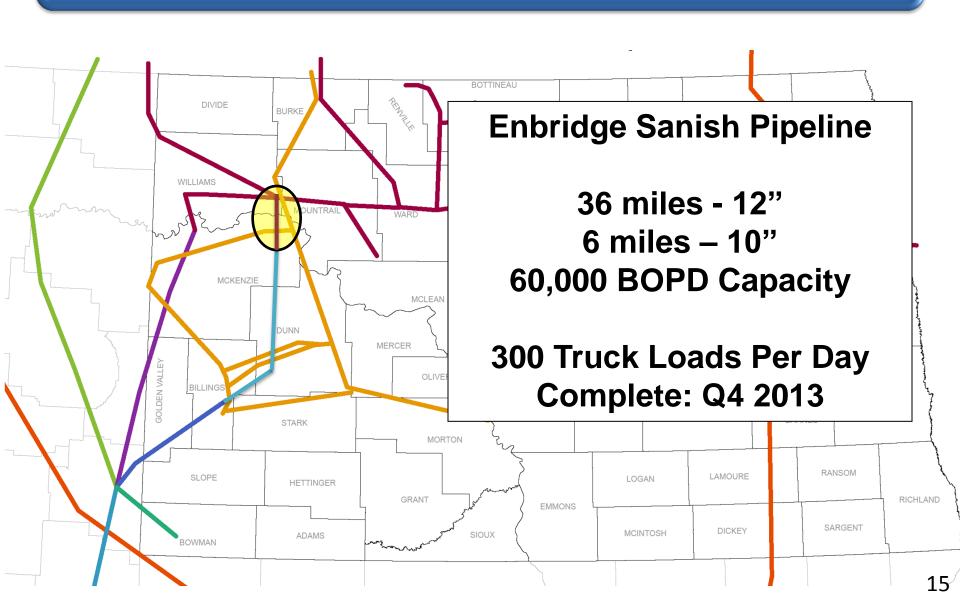
Reducing Truck Traffic

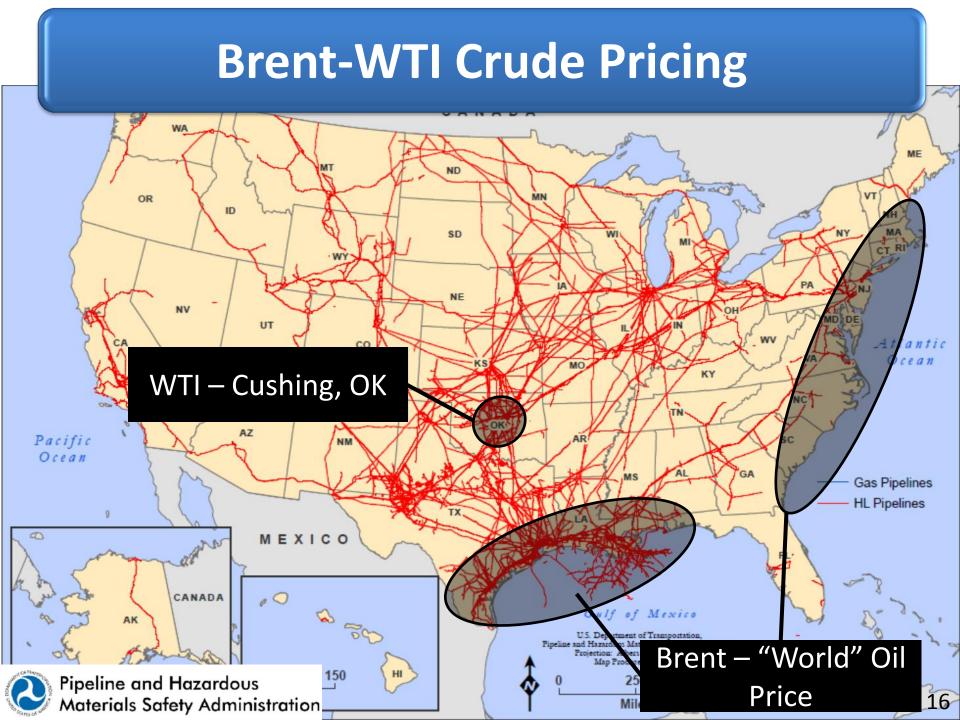


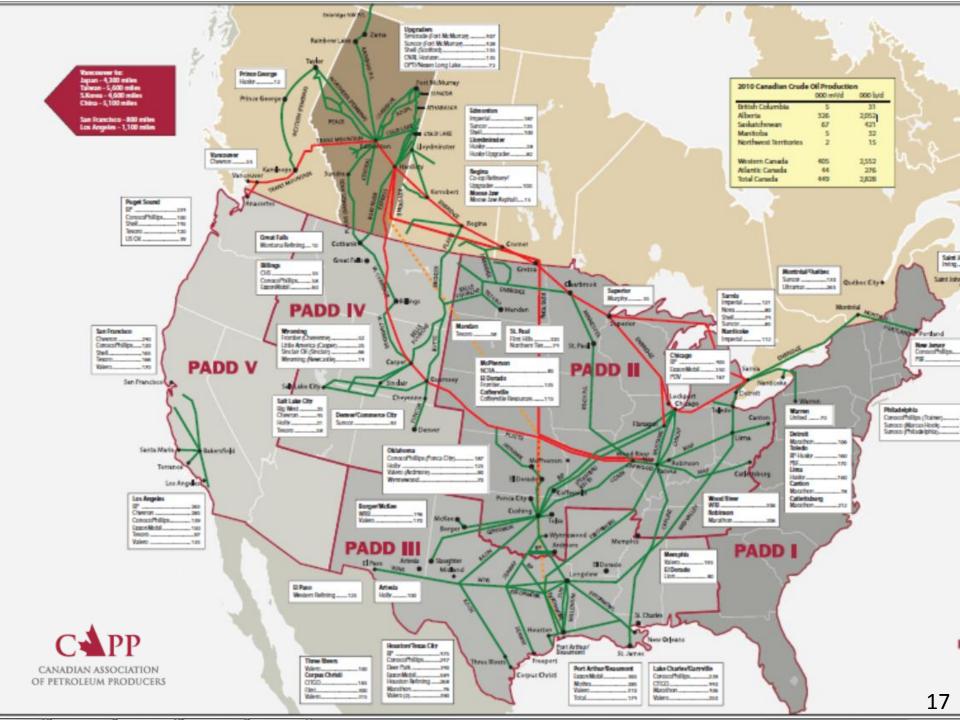
Reducing Truck Traffic



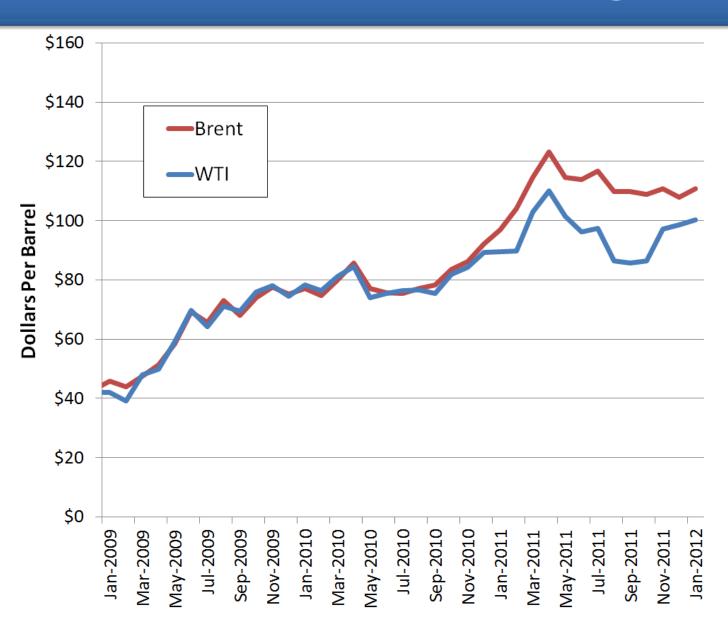
Reducing Truck Traffic



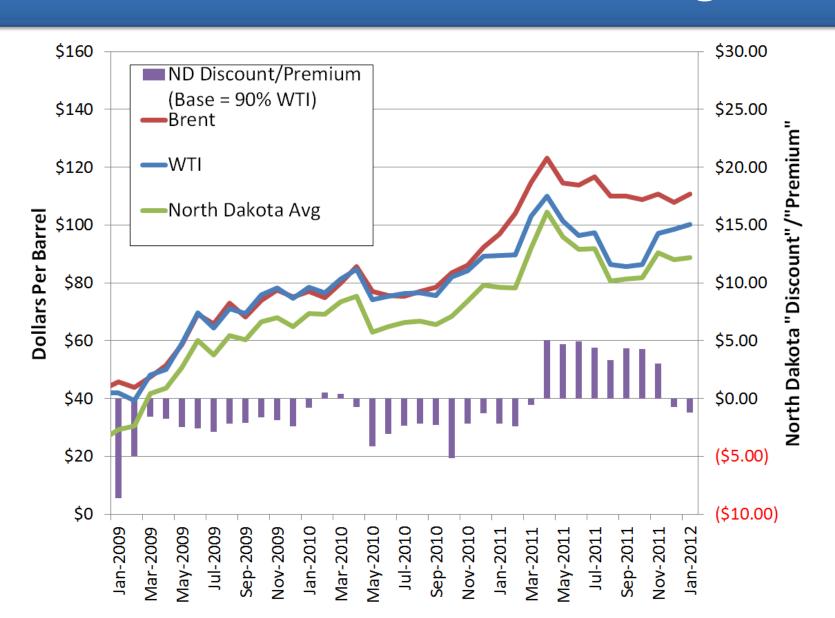




Brent-WTI Crude Pricing



Brent-WTI-ND Crude Pricing



Interactive Chart for Bloomberg Bakken (Clearbrook MN) Crude Oil Differential (USCSUHC1)



http://www.bloomberg.com/quote/USCSUHC1:IND/chart/

Domestic Crude Oil First Purchase Prices by API Gravity

(Dollars per Barrel)

Period: Monthly ▼



Download Series History Definitions, Sources & Notes										
API Gravity	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11		View History			
20.0° or Less	101.82	93.51	104.07	105.47	111.13	101.87	<u>1993-2011</u>			
20.1° to 25.0°	103.92	95.26	103.51	105.14	111.19	103.21	<u>1993-2011</u>			
25.1° to 30.0°	98.06	92.89	94.47	96.18	101.42	97.34	<u>1993-2011</u>			
30.1° to 35.0°	102.56	95.73	95.53	99.01	104.30	104.58	<u>1993-2011</u>			
35.1° to 40.0°	96.70	86.50	87.02	89.38	99.60	99.01	<u>1993-2011</u>			
40.0° or Greater	94.66	83.90	84.22	85.10	95.02	94.68	<u>1993-2011</u>			

Domestic Crude Oil First Purchase Prices by API Gravity

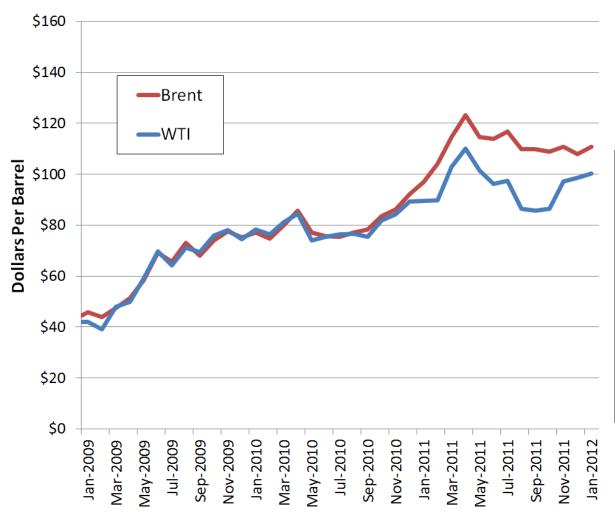
(Dollars per Barrel)

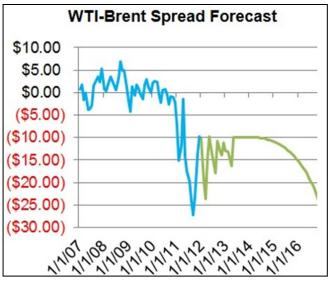
Period: Annual ▼

Download Series History Definitions, Sources & Notes									
API Gravity	2006	2007	2008	2009	2010	2011	View History		
20.0° or Less	54.96	62.00	87.10	54.05	72.40	101.30	<u>1993-2011</u>		
20.1° to 25.0°	57.89	64.94	91.01	55.66	75.04	103.07	<u>1993-2011</u>		
25.1° to 30.0°	56.18	62.83	89.55	54.30	71.78	97.12	<u>1993-2011</u>		
30.1° to 35.0°	60.78	67.14	98.41	57.66	76.22	99.65	<u>1993-2011</u>		
35.1° to 40.0°	61.83	69.29	96.69	56.93	76.03	94.54	<u>1993-2011</u>		
40.0° or Greater	61.86	69.17	94.95	56.66	74.47	91.87	<u>1993-2011</u>		

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Brent-WTI Crude Pricing





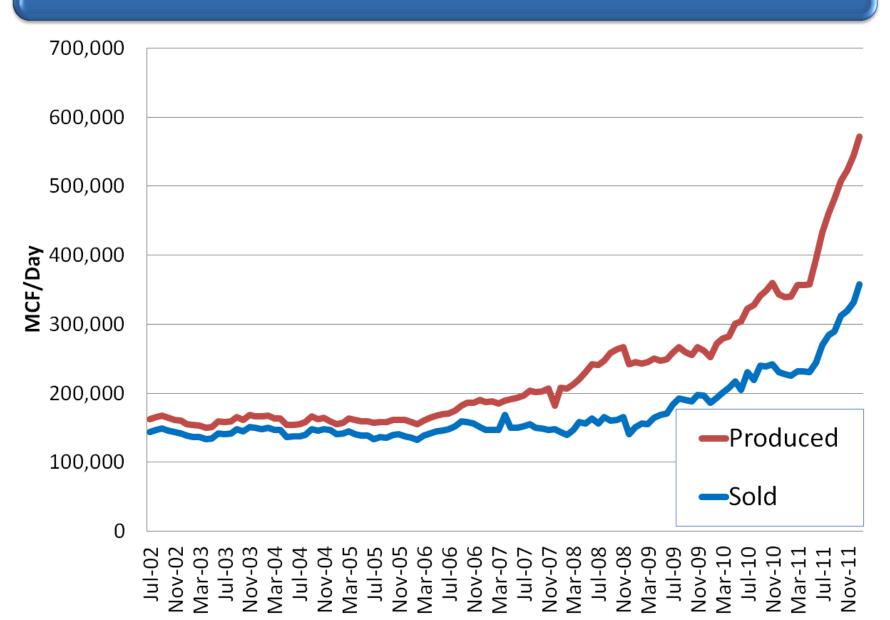




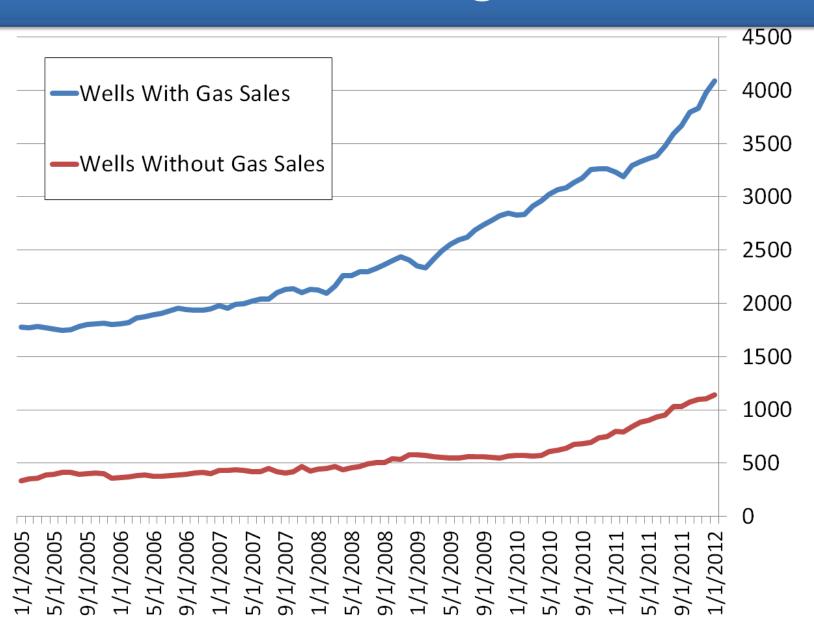
Natural Gas Projects



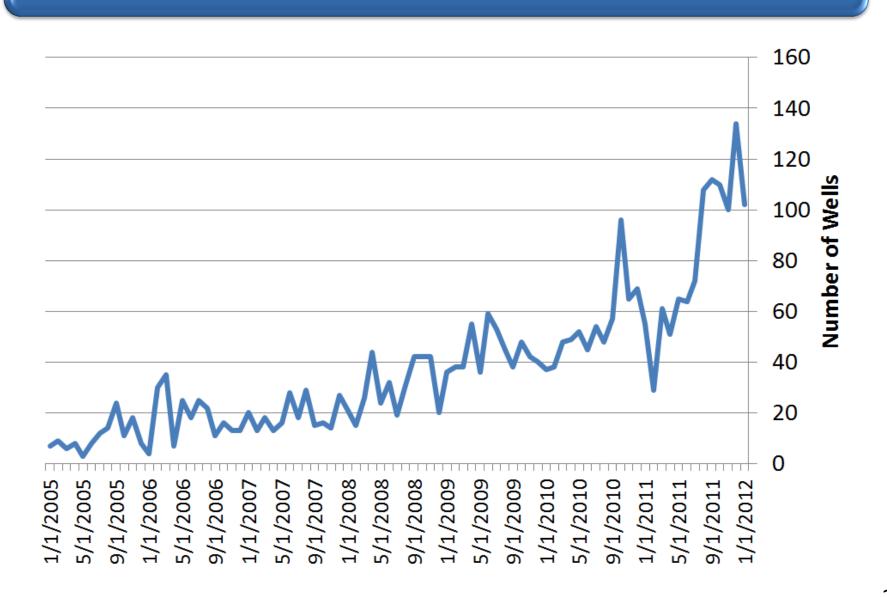
ND Gas Production



ND Gas Gathering Statistics

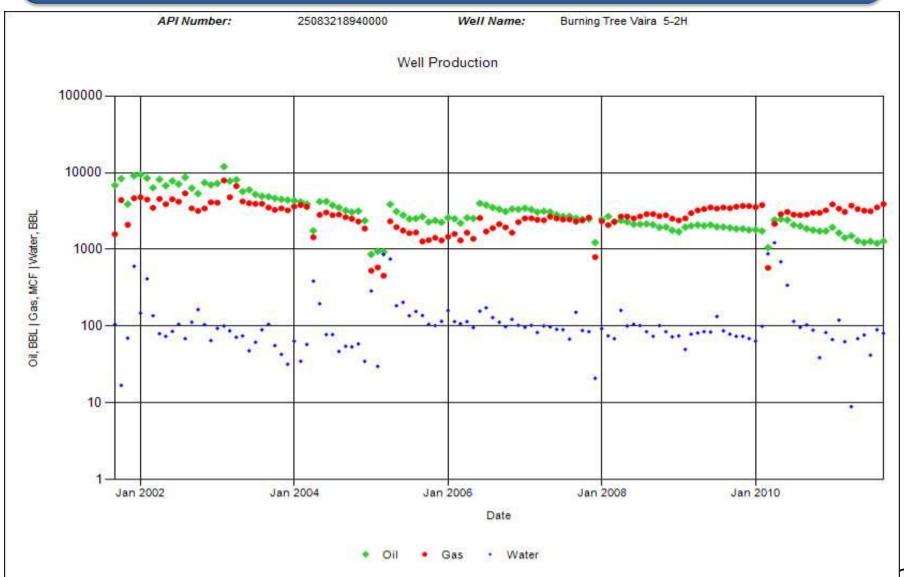


First Time Gas Sales Per Month

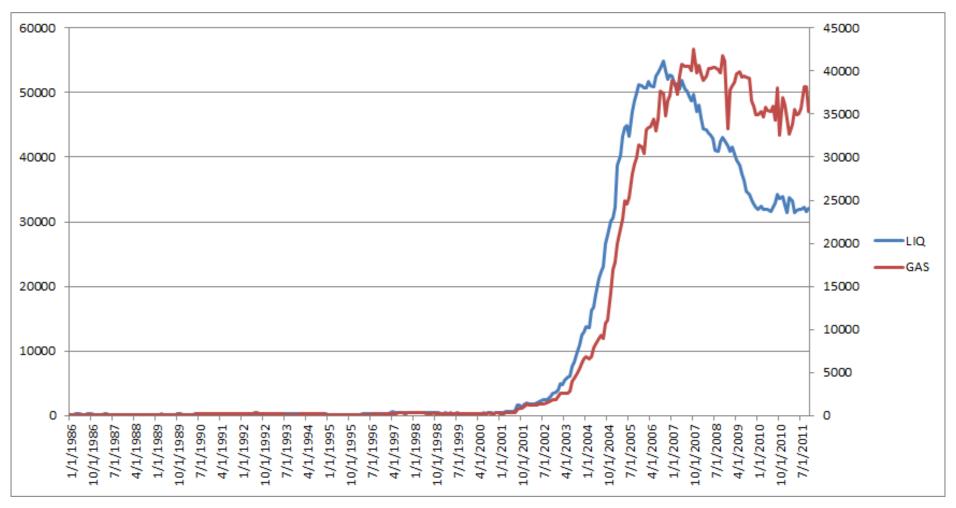


Natural Gas Study

Elm Coulee Montana

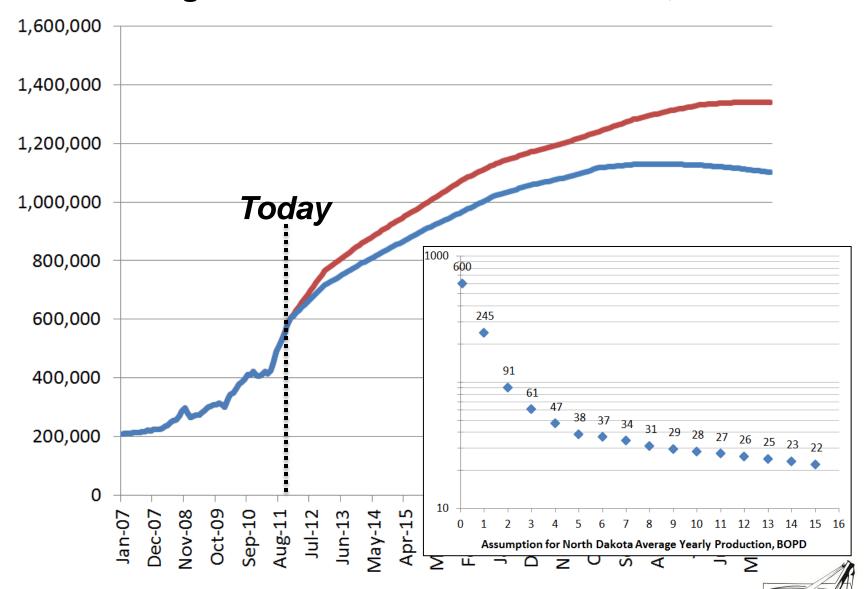


Montana Bakken Production



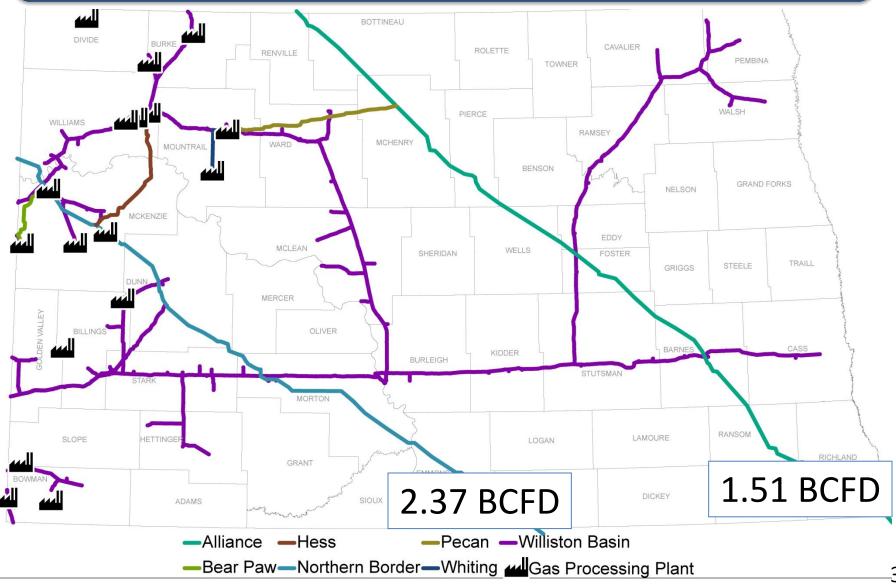
Source: EPRINC - Left Axis Oil, BOPD - Right Axis Gas, MCFD

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.

Gas Transmission Pipelines



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