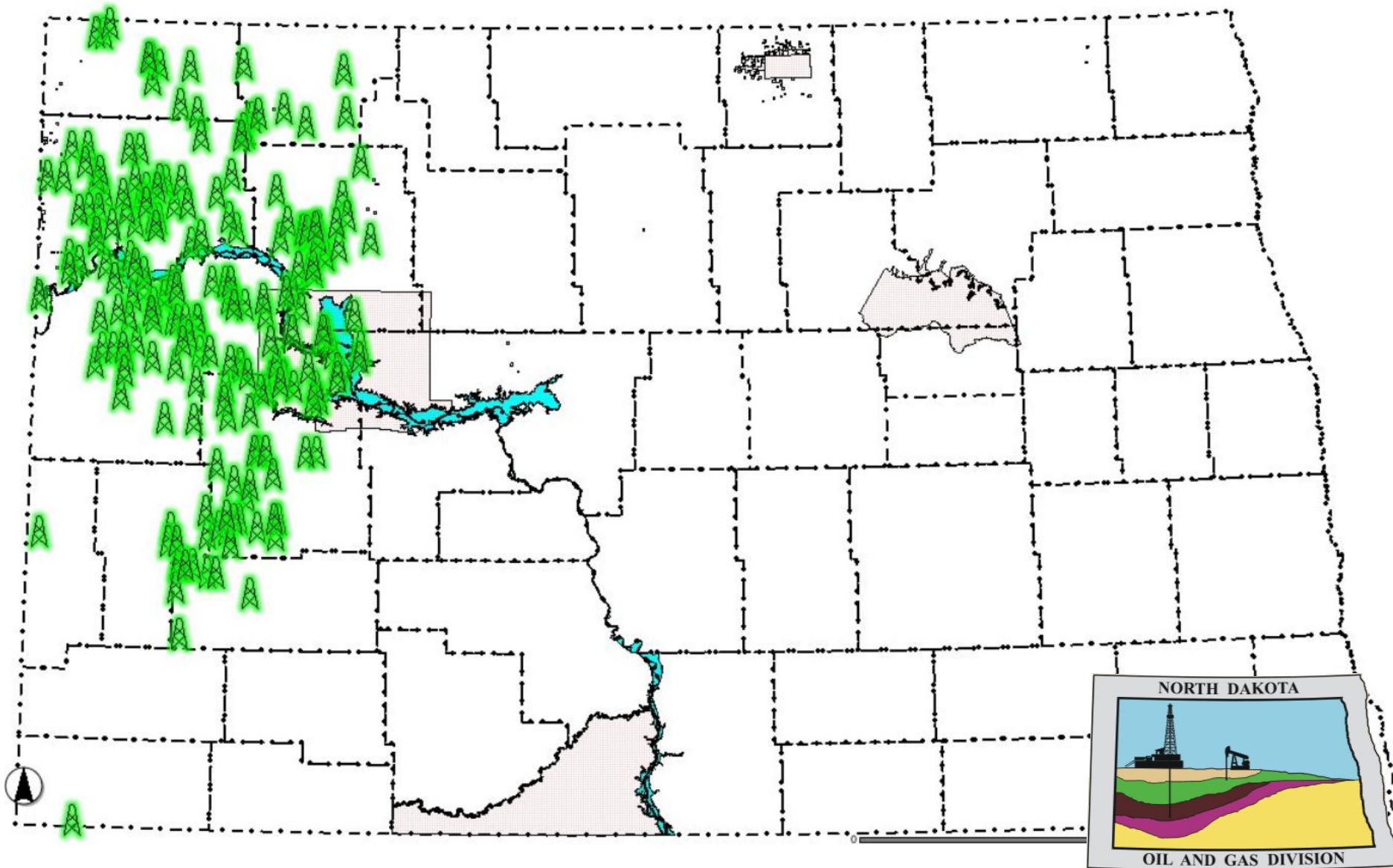


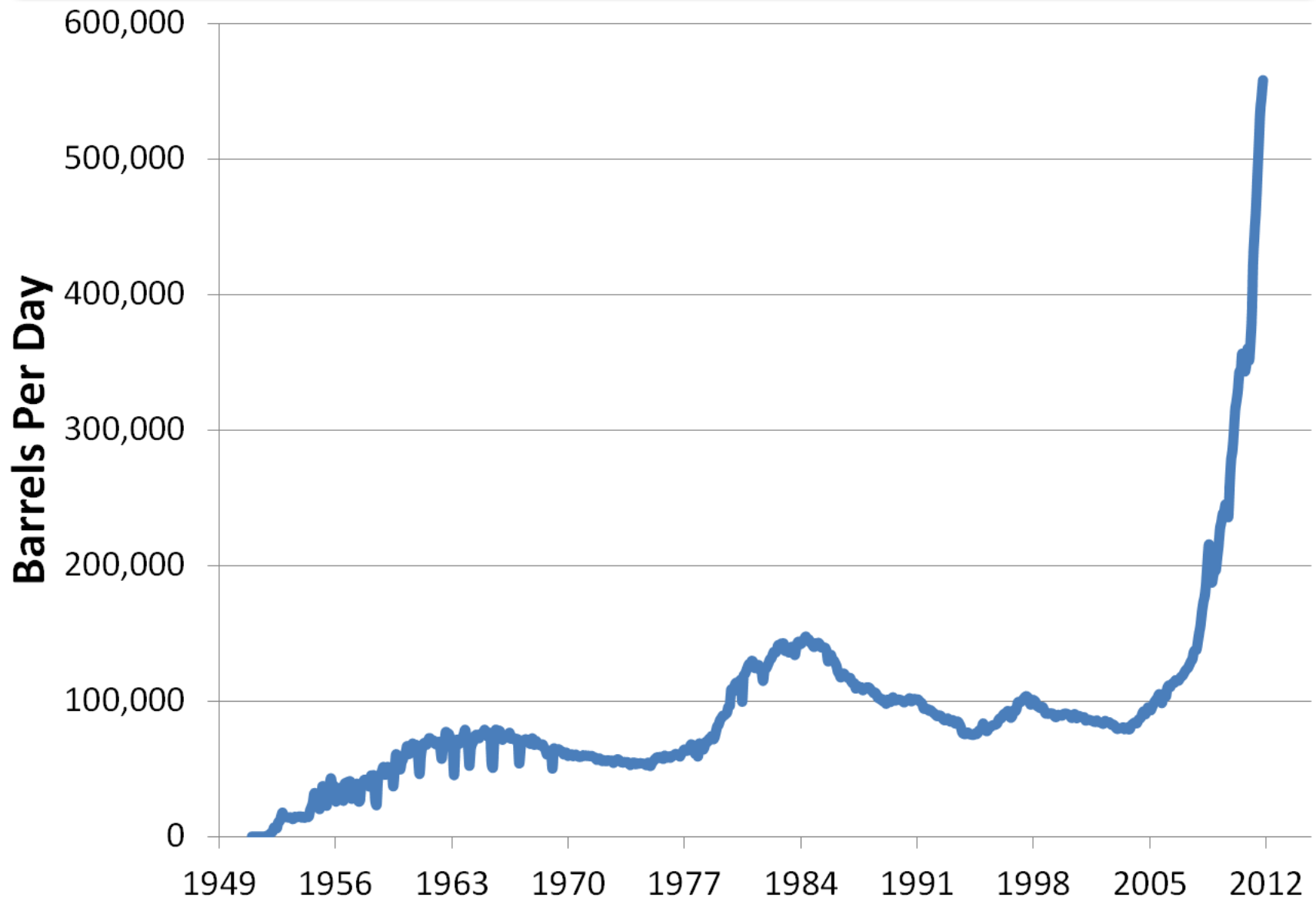


North Dakota Pipeline Authority
Lignite Energy Council Contractor/Supplier Meeting
April 18, 2012 – Bismarck, ND

206 Active Rigs – April 17, 2012



North Dakota Crude Oil



Top Four States

Mbbl/d

3,000

2,500

2,000

1,500

1,000

500

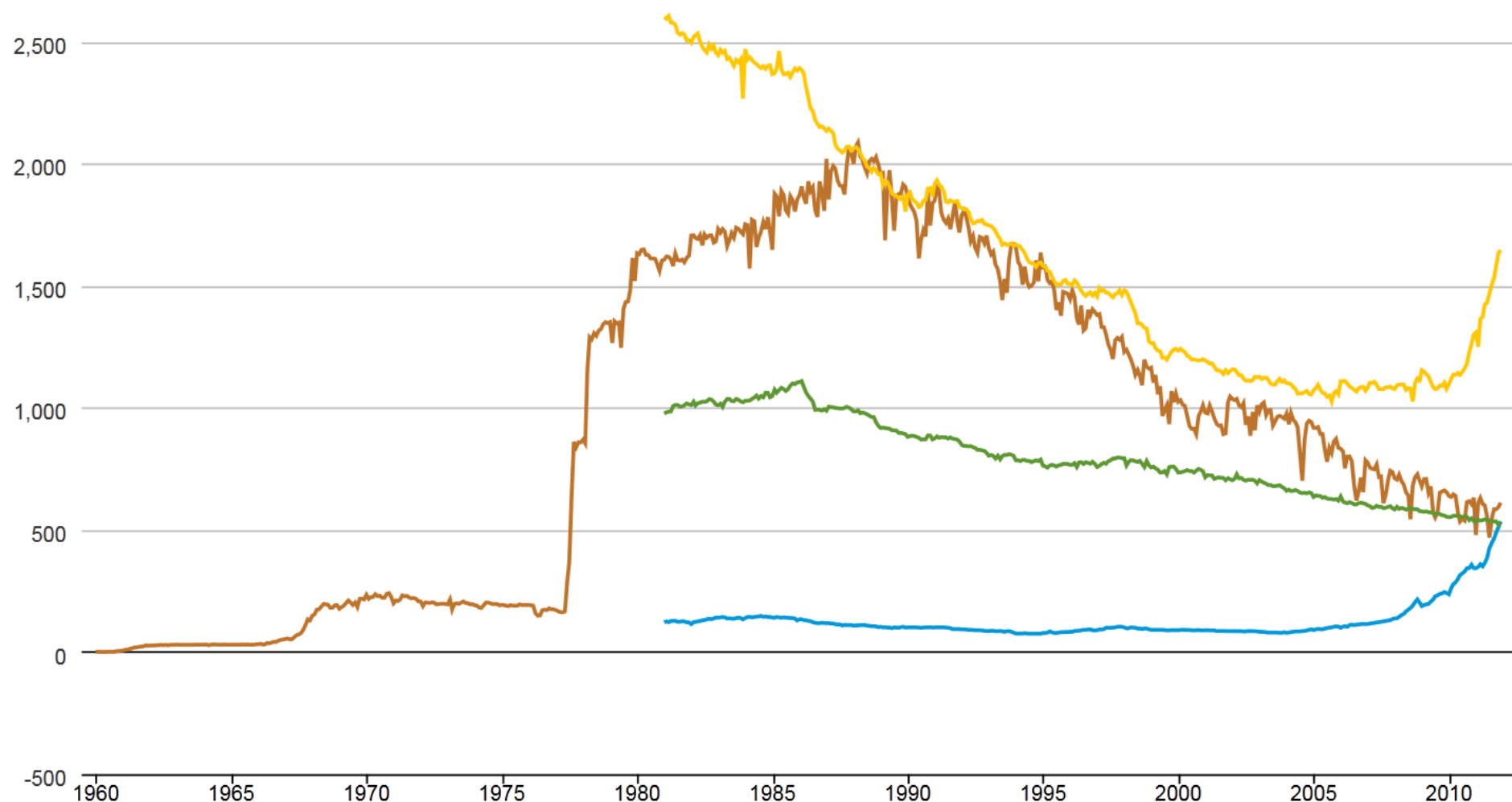
0

-500

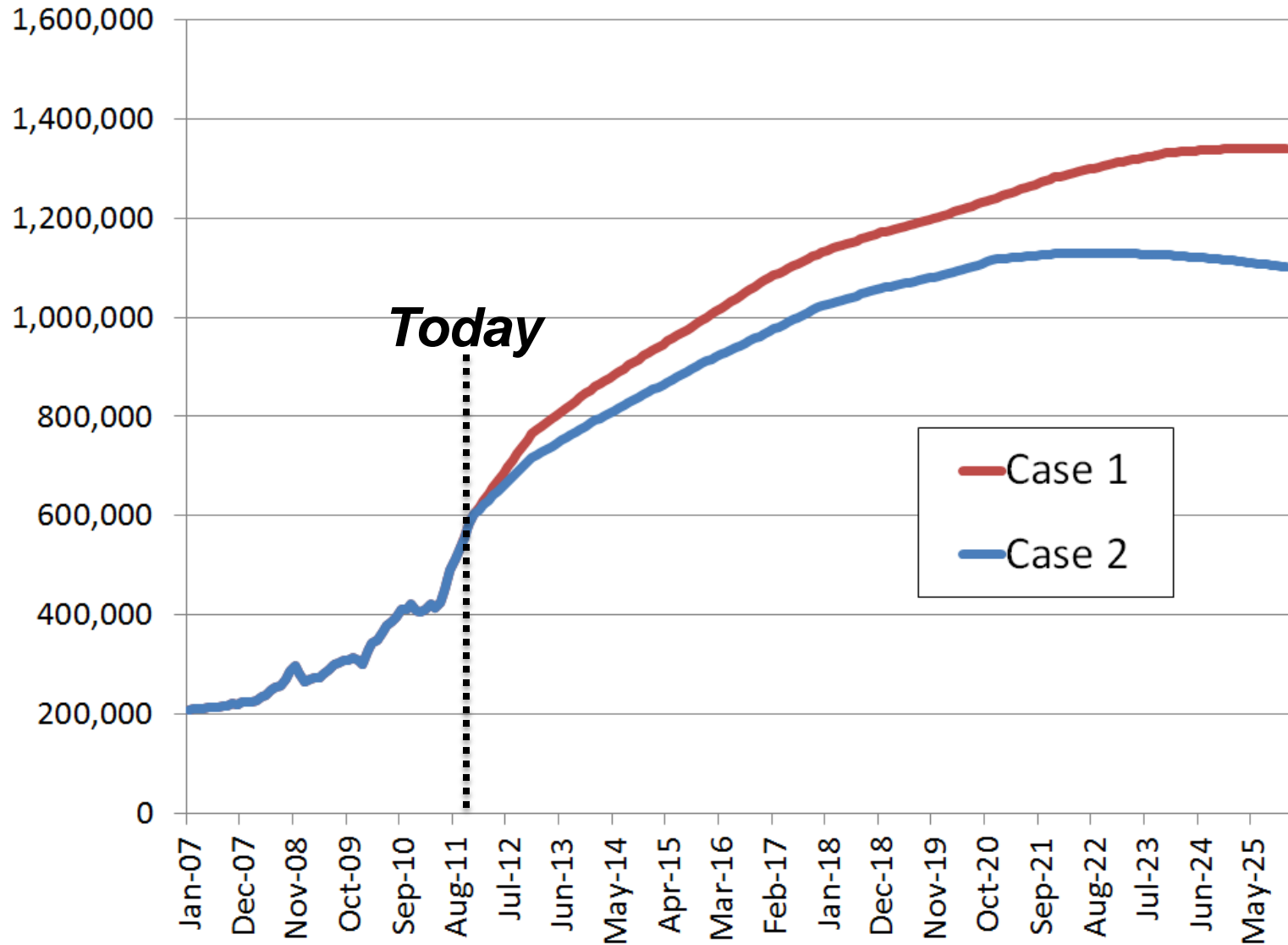
1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010

— North Dakota Field Production of Crude Oil — Alaska Field Production of Crude Oil — California Field Production of Crude Oil
— Texas Field Production of Crude Oil

Source: U.S. Energy Information Administration



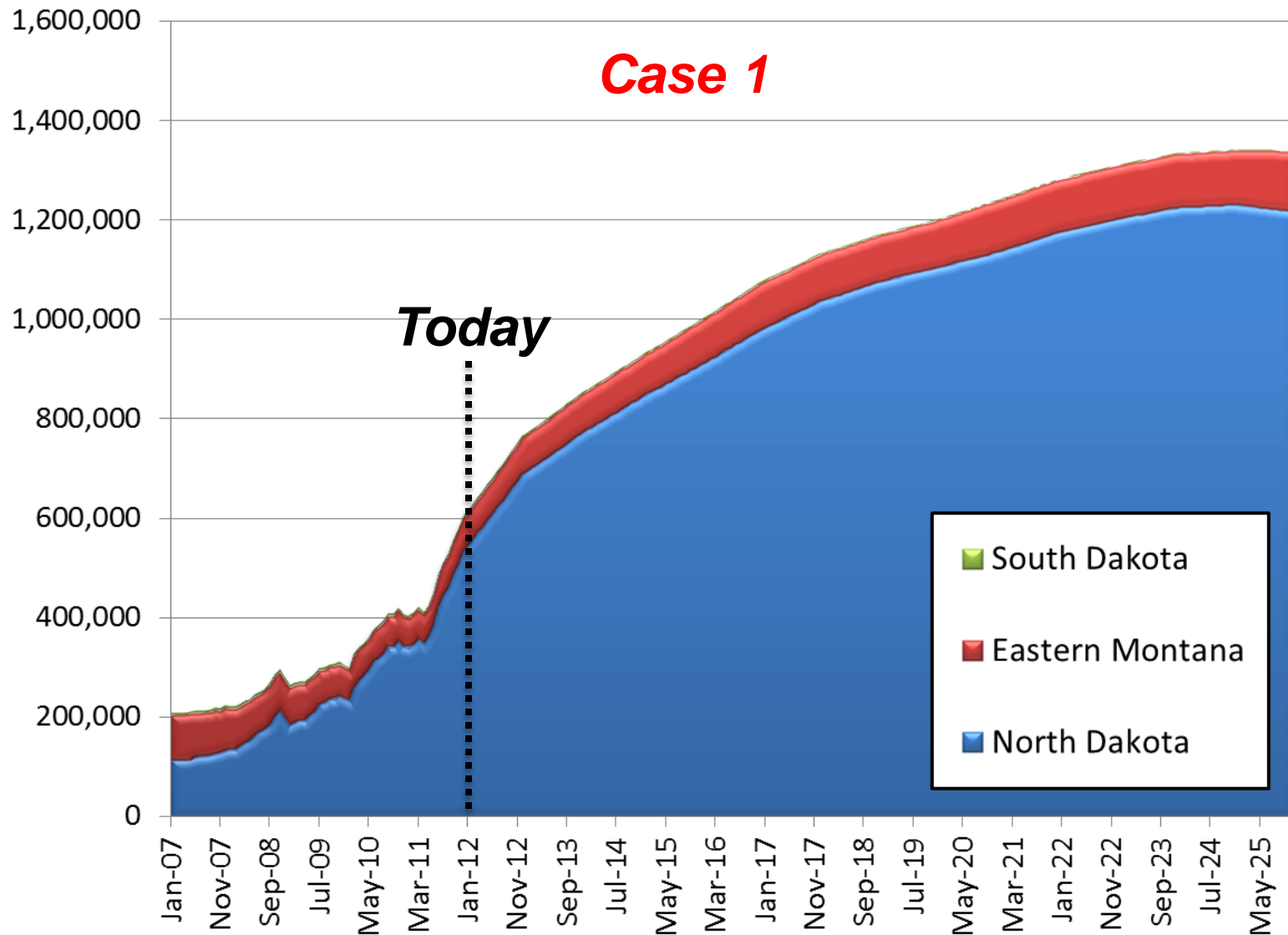
Forecasting Williston Basin Oil Production, BOPD



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



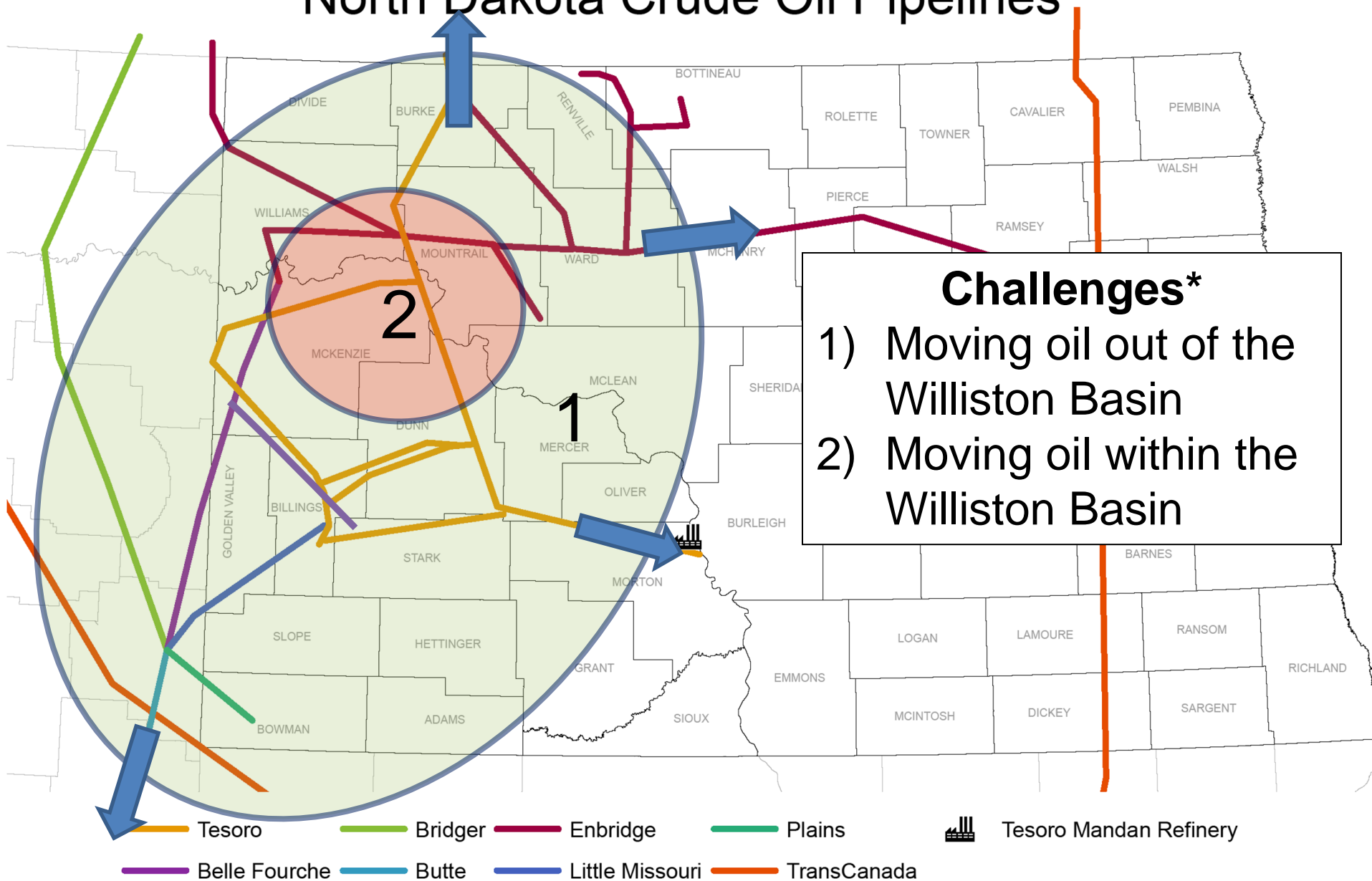
Forecasting Williston Basin Oil Production, BOPD



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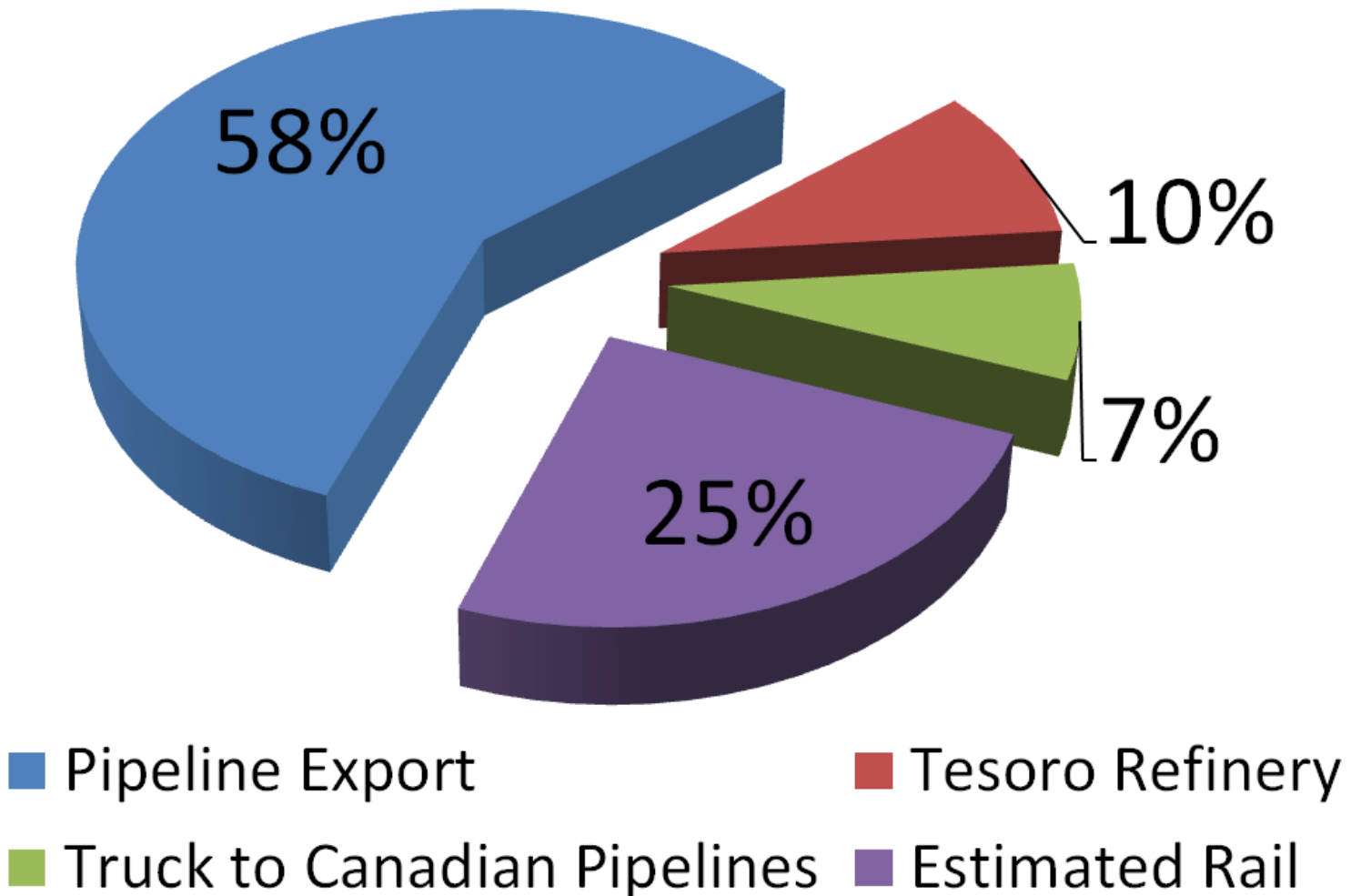


North Dakota Crude Oil Pipelines



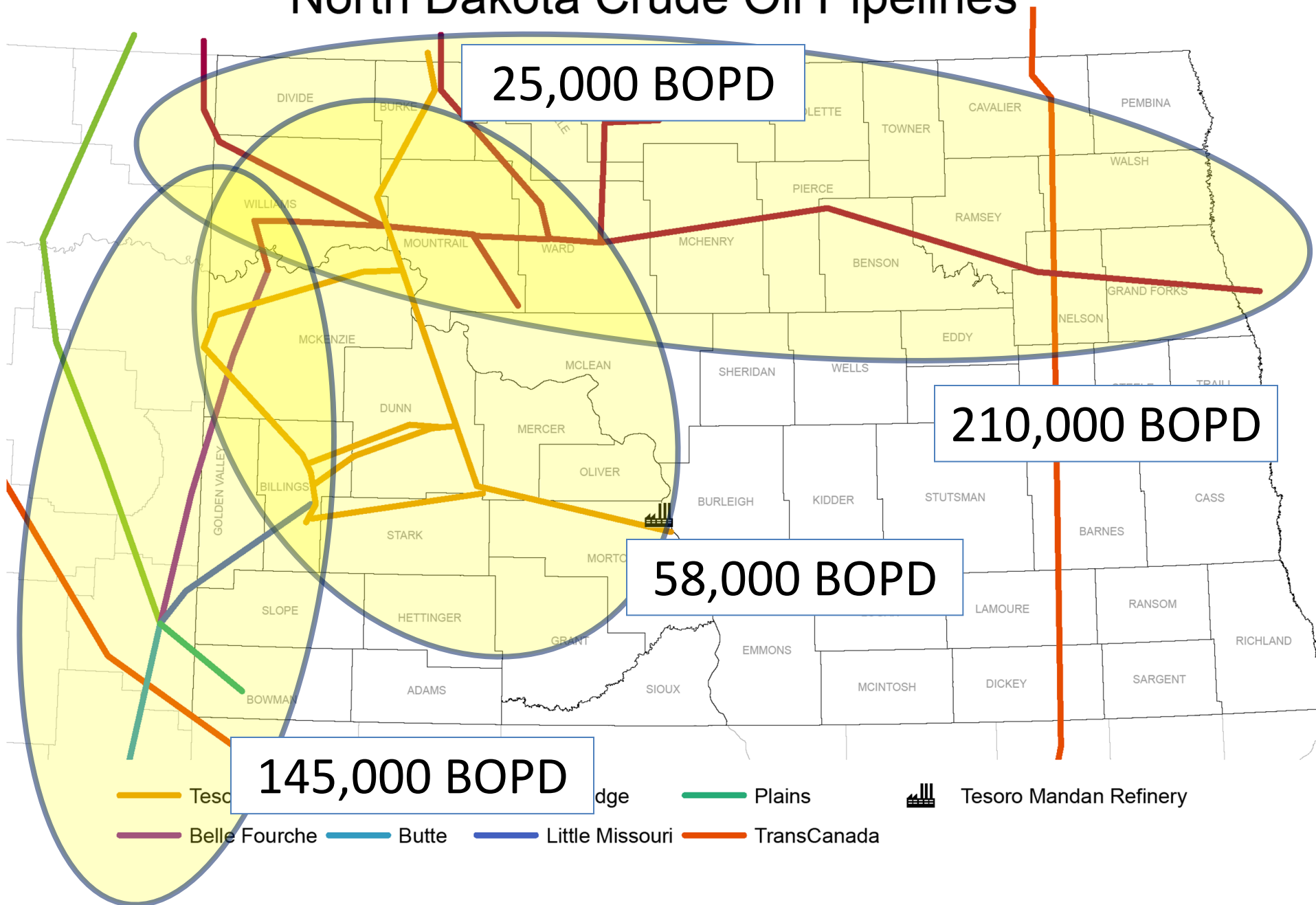
*Modified from Bridger and Belle Fourche Pipelines

Williston Basin Oil Transportation

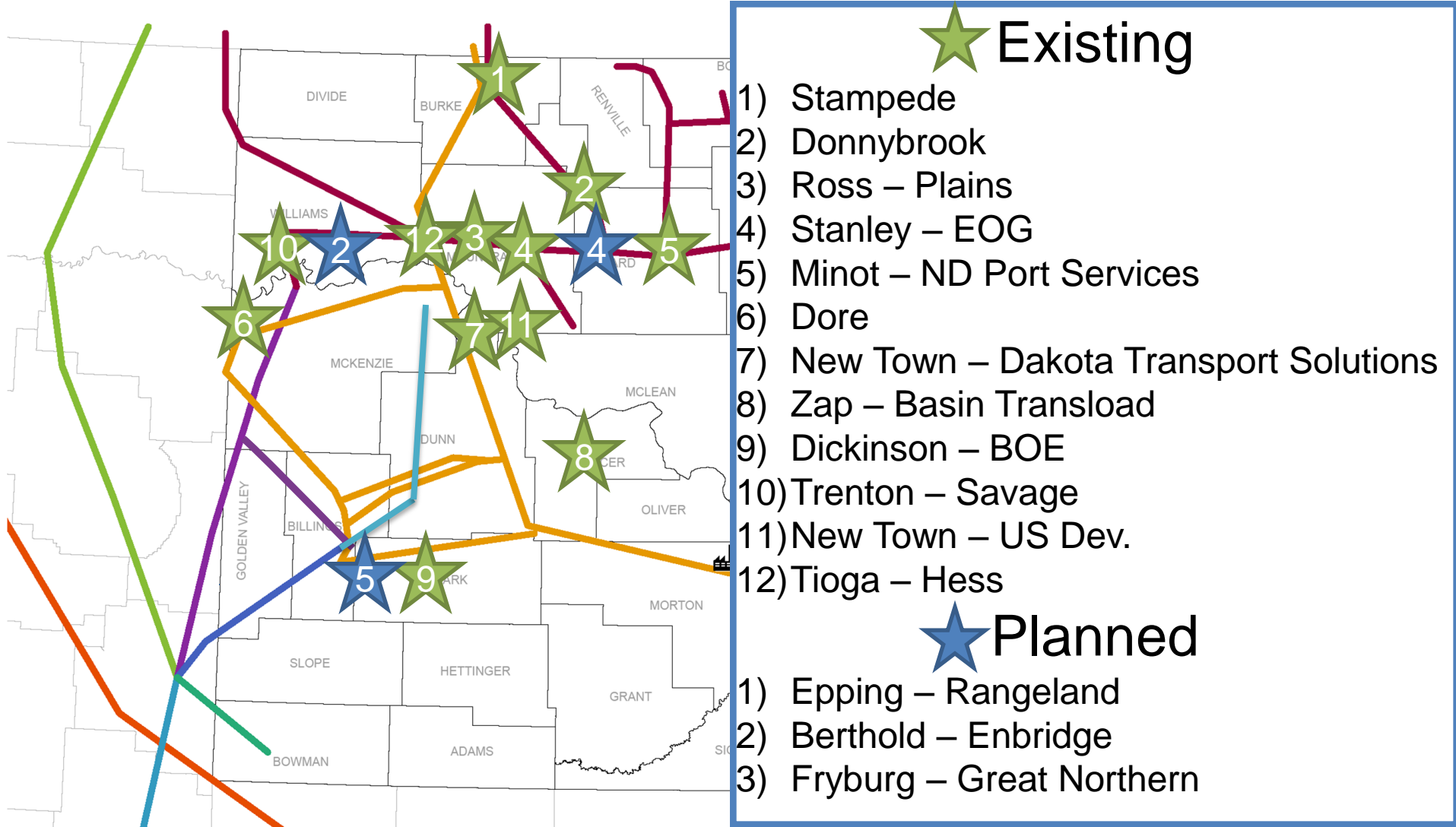


January 2012 Estimates

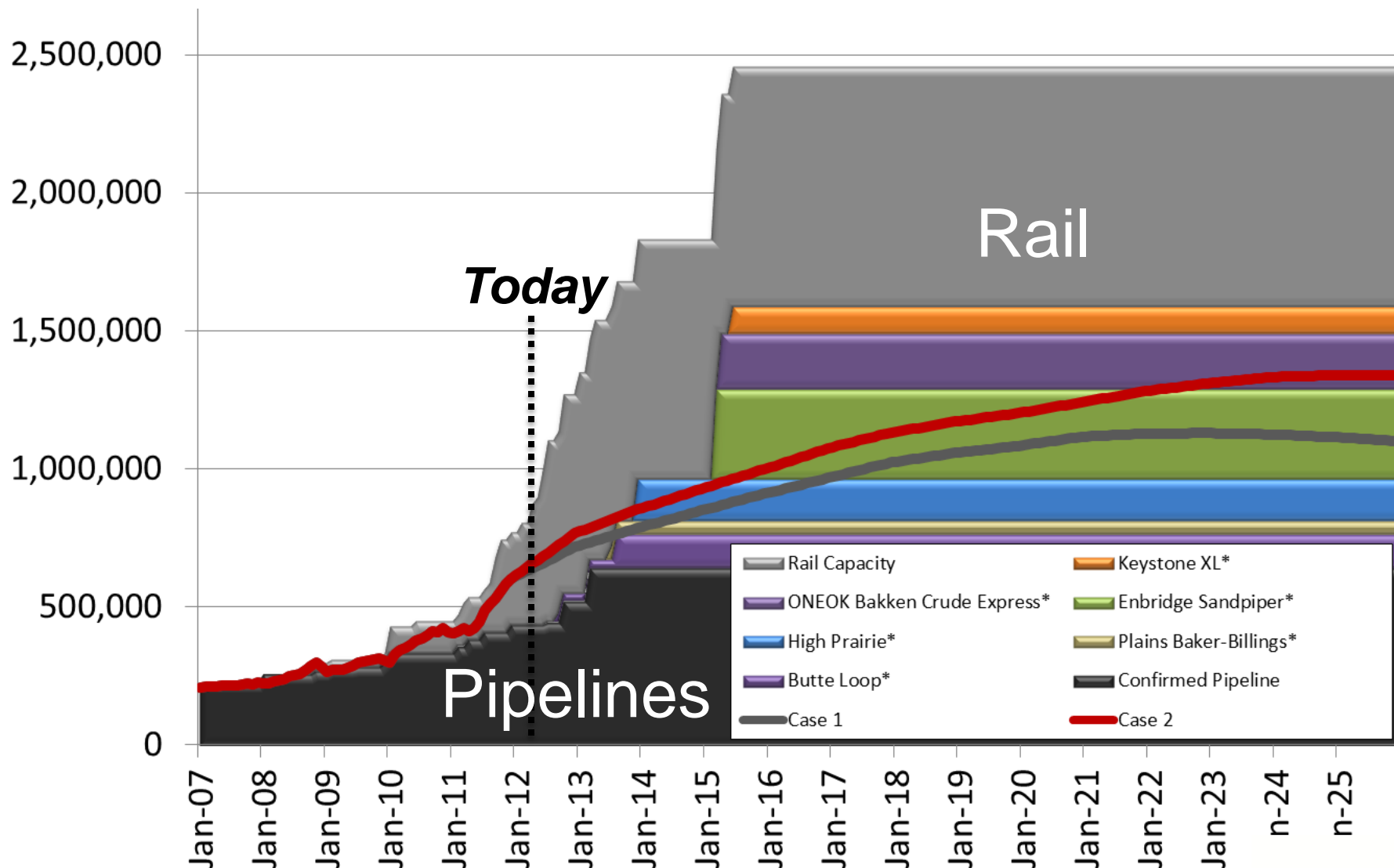
North Dakota Crude Oil Pipelines



Existing & Planned Rail Locations



Williston Basin Oil Production & Export Capacity, BOPD

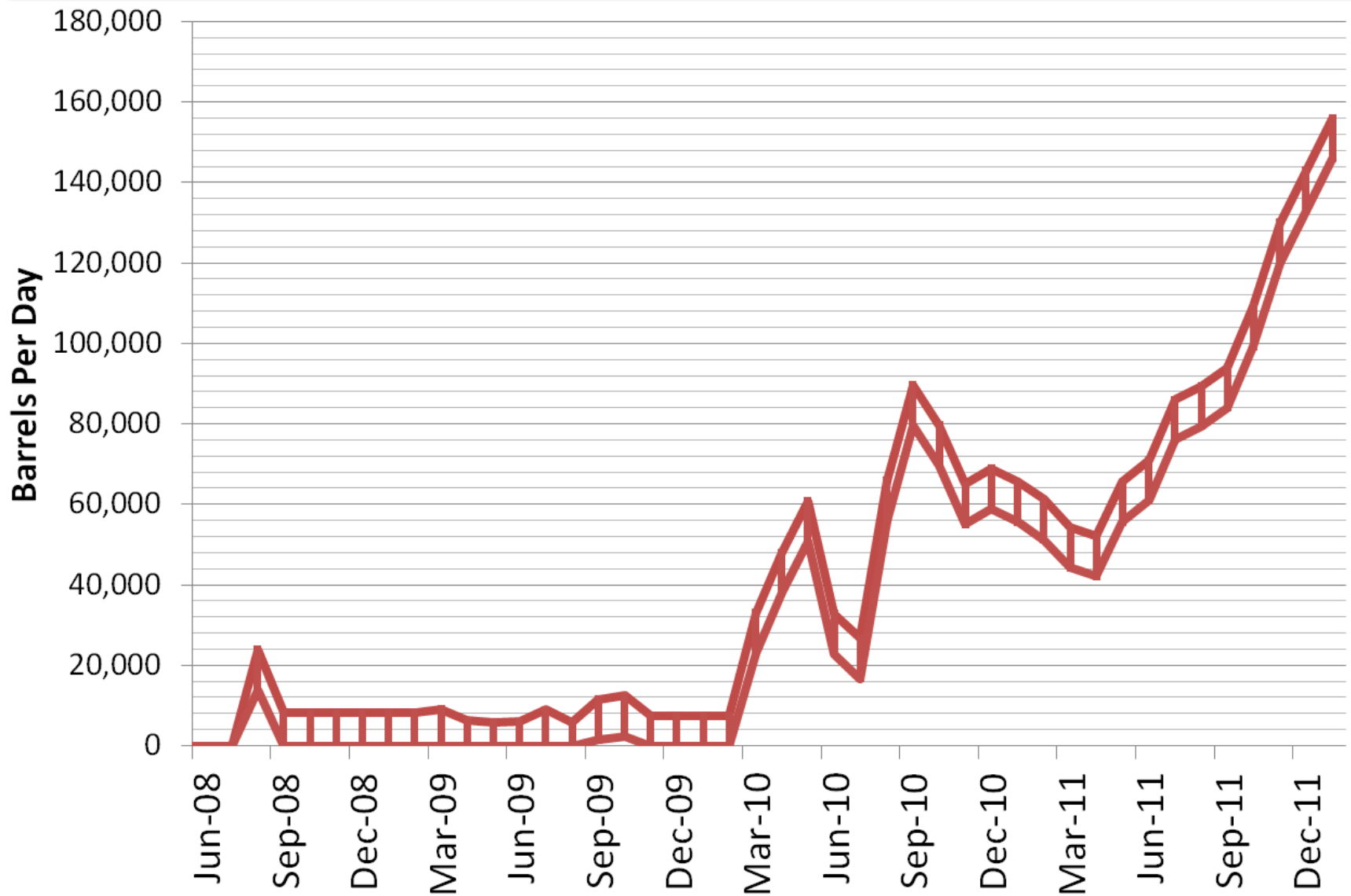


Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

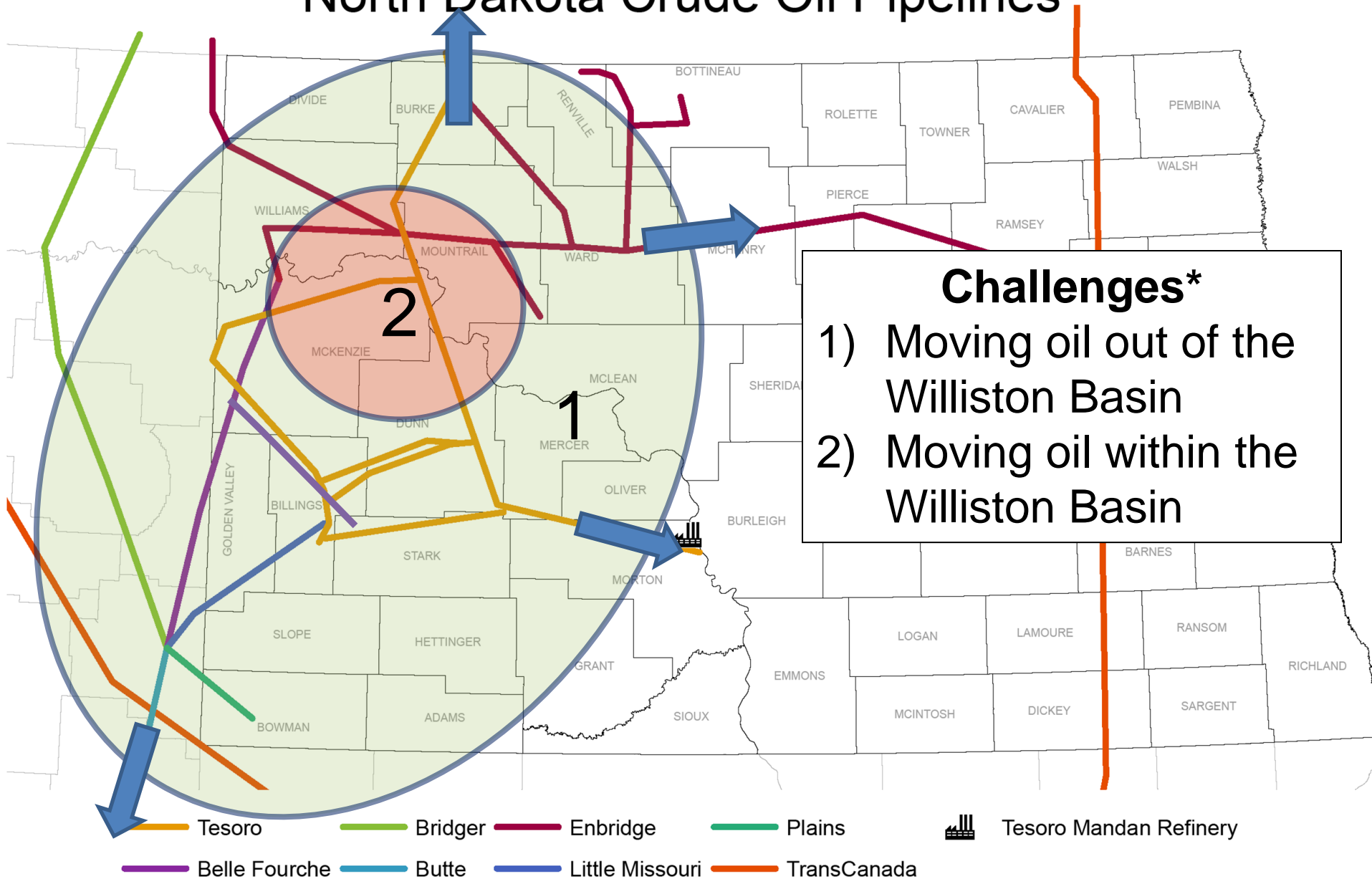
*Projects still in the proposed or internal review process



High-Low Rail Estimate, BOPD



North Dakota Crude Oil Pipelines



*Modified from Bridger and Belle Fourche Pipelines

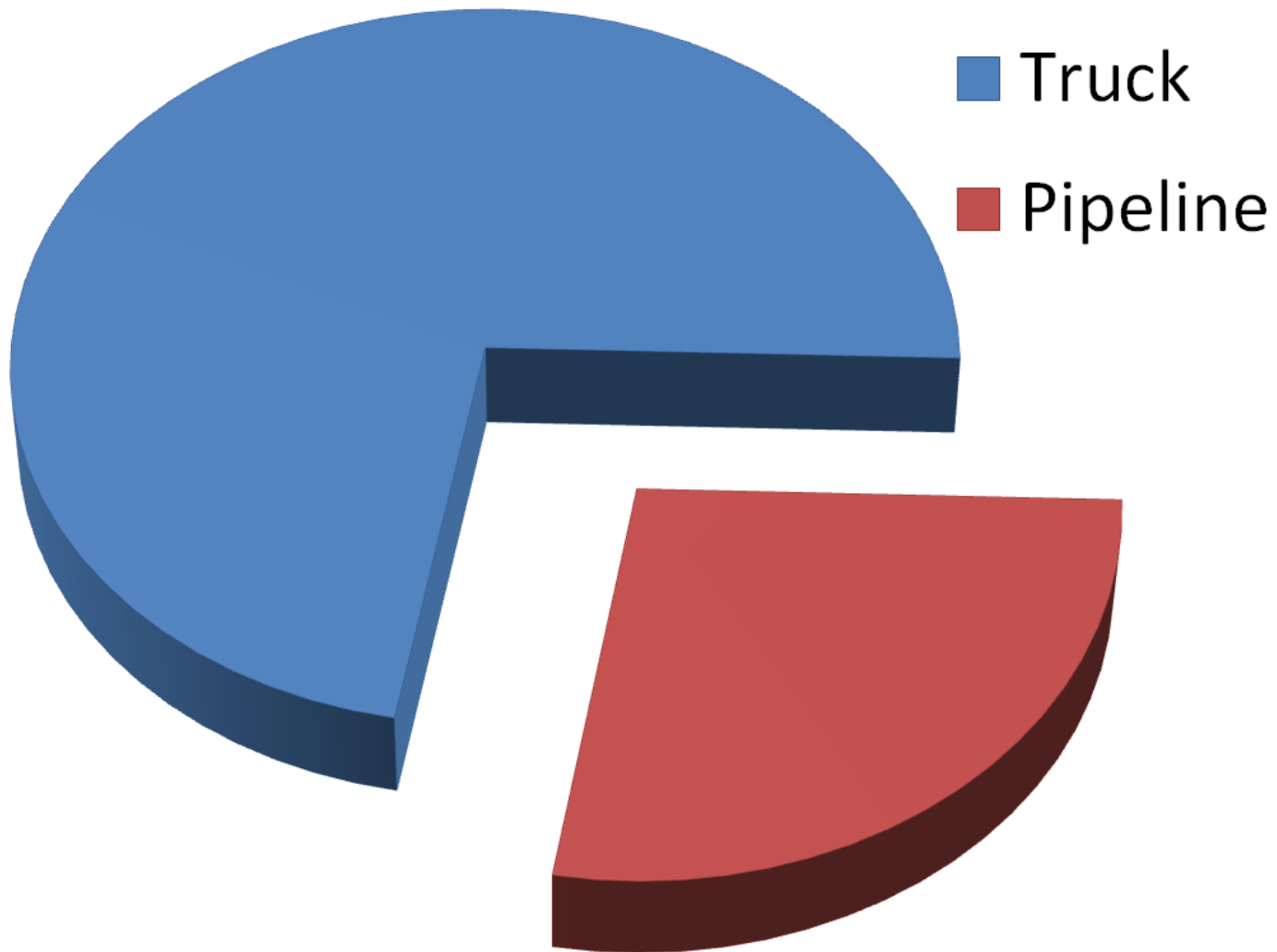
Crude Oil Gathering



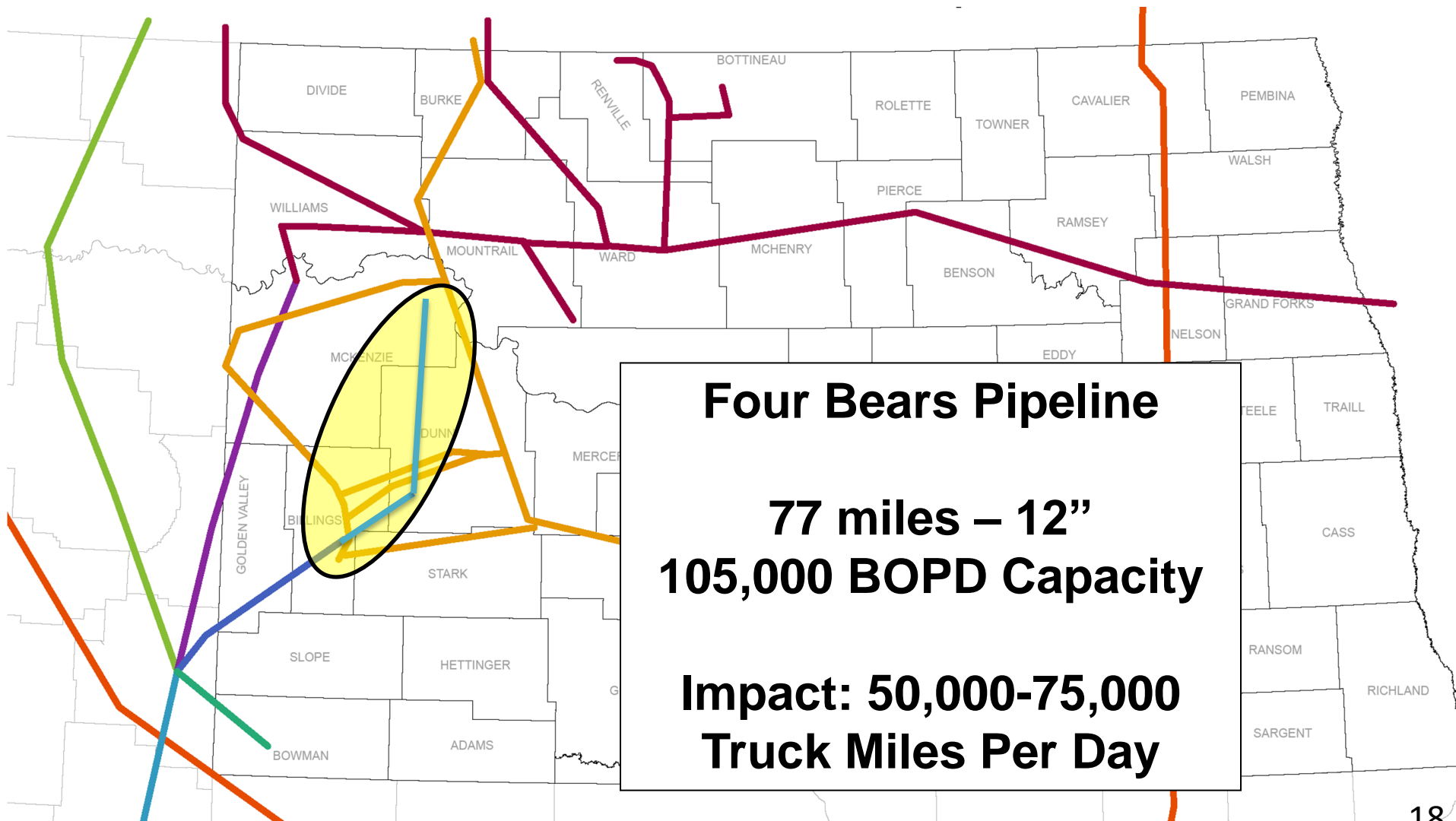




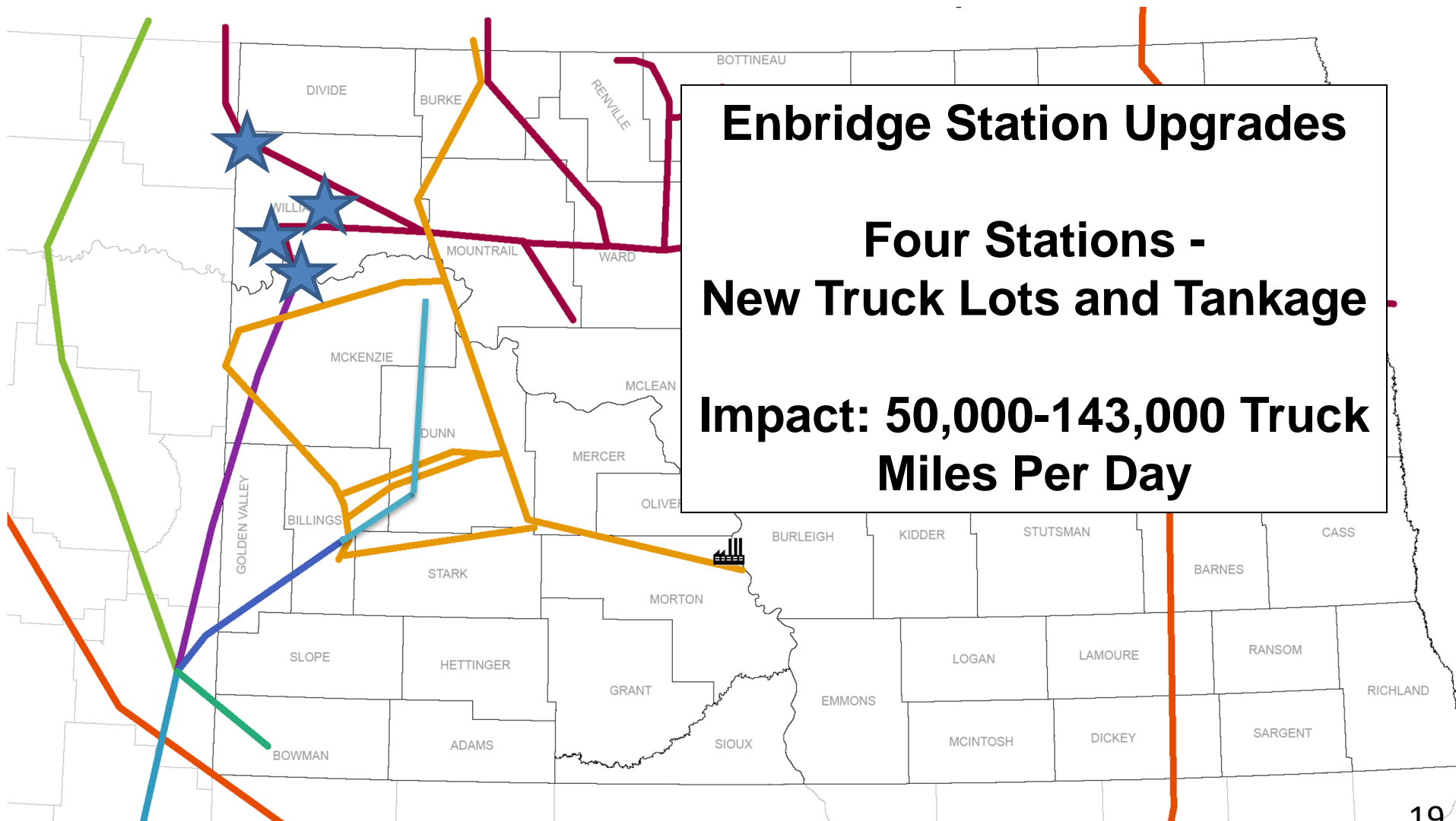
North Dakota Crude Gathering



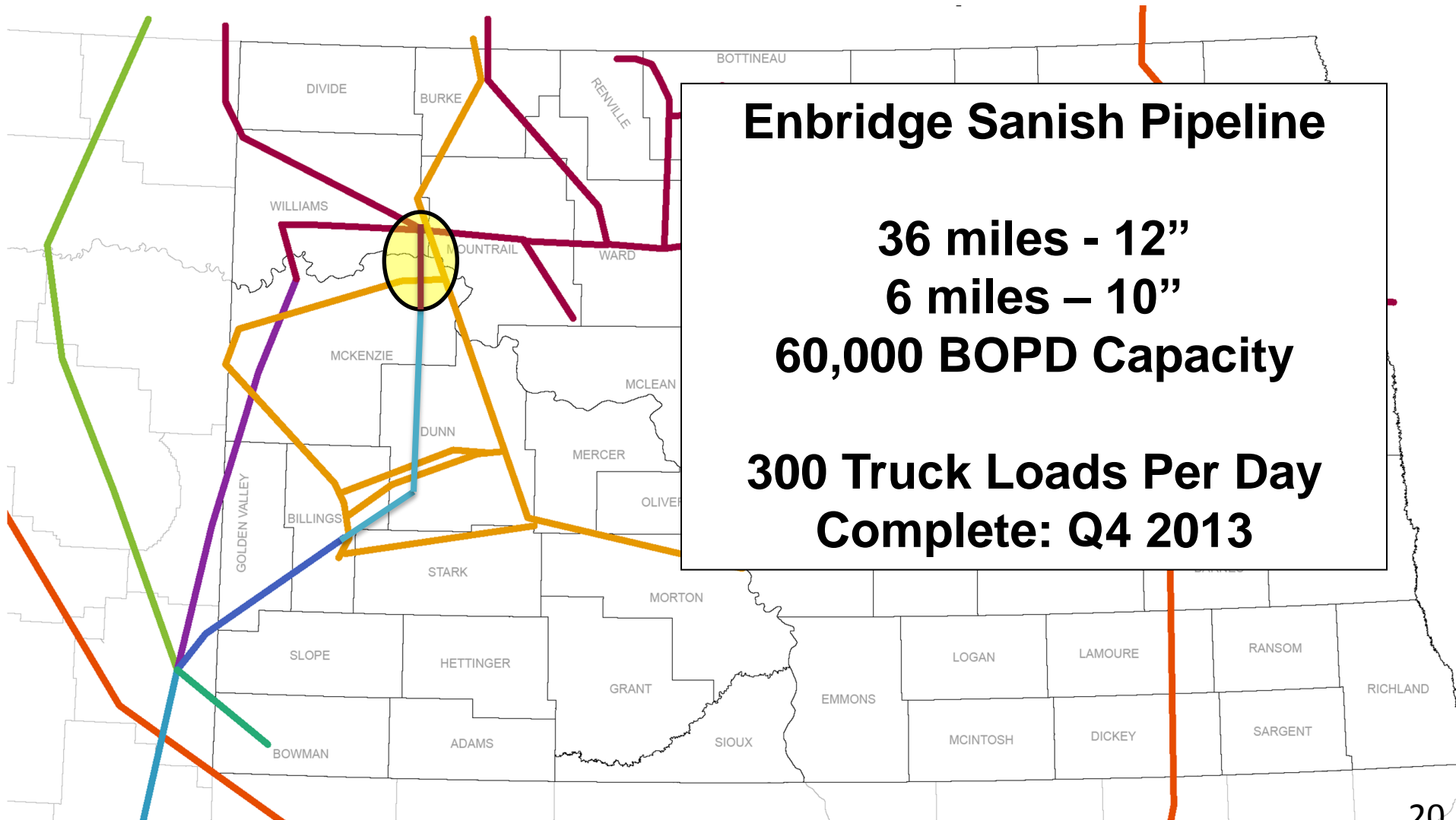
Reducing Truck Traffic



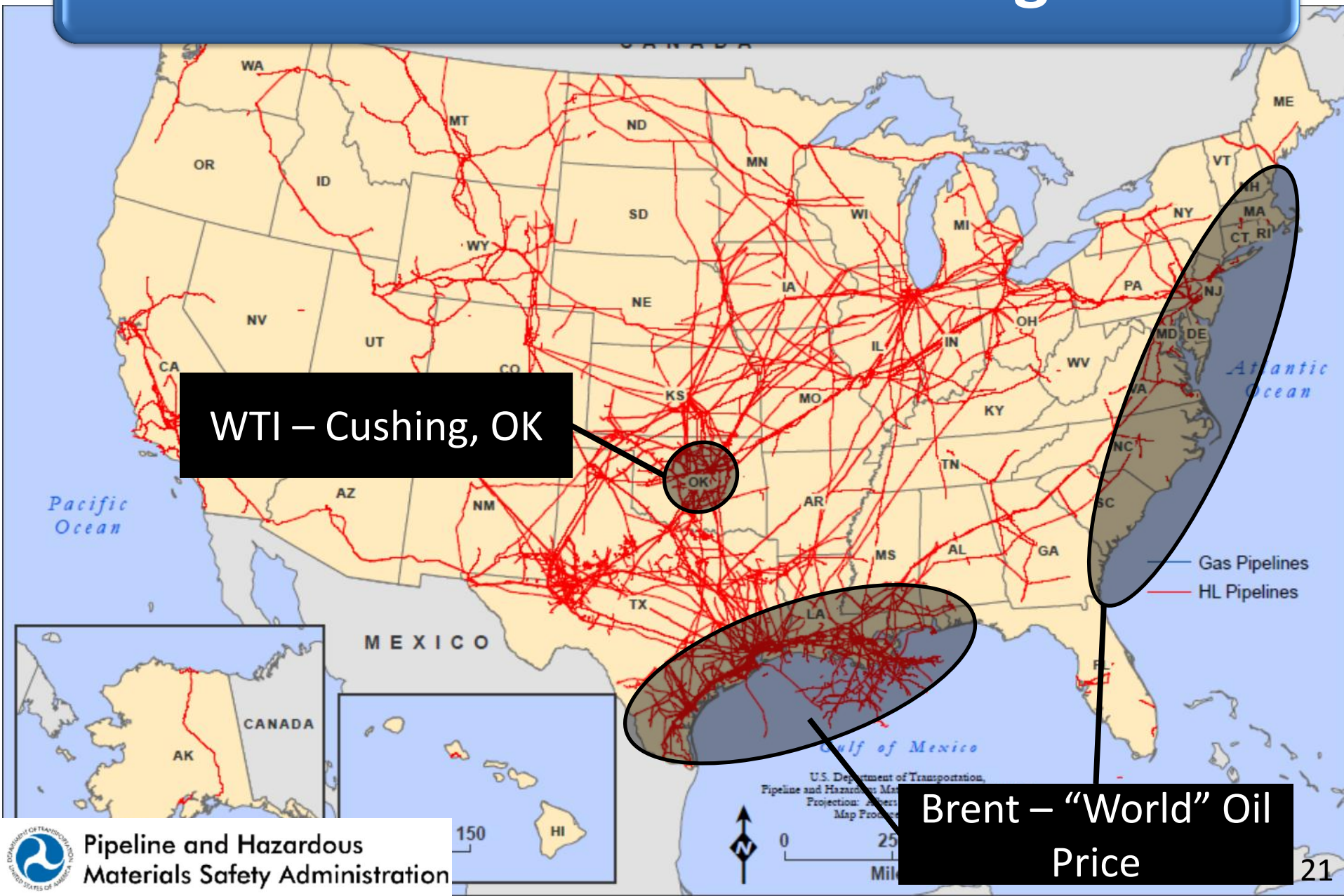
Reducing Truck Traffic



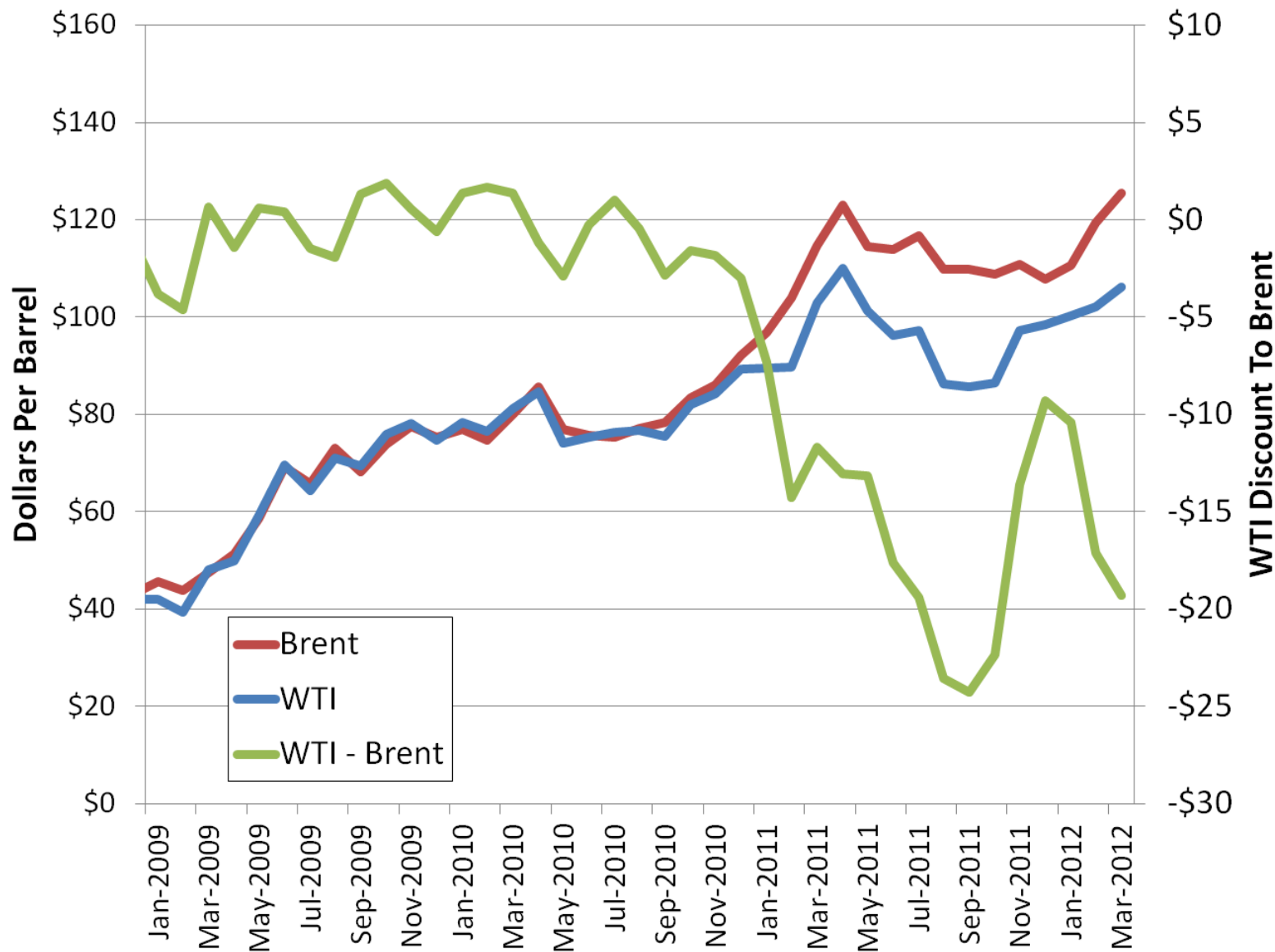
Reducing Truck Traffic



Brent-WTI Crude Pricing



Brent-WTI Crude Pricing



Vancouver Inc.
 Japan - 4,300 miles
 Taiwan - 5,600 miles
 S.Korea - 4,600 miles
 China - 5,100 miles
 San Francisco - 800 miles
 Los Angeles - 1,100 miles

Puget Sound

BP	234
ConocoPhillips	100
Shell	110
Tecoco	120
USOC	30

San Francisco

Cheniere	210
ConocoPhillips	120
Shell	160
Tecoco	160
Valero	130

Los Angeles

BP	260
Cheniere	260
ConocoPhillips	190
ExxonMobil	190
Tecoco	37
Valero	120

Upgrades

Sensuade (Fort McMurray)	147
Suncor (Fort McMurray)	128
Shell (Gordale)	130
CNR (Hortale)	130
CPT (Neen Long Lake)	72

Saleontion

Imperial	140
Suncor	130
Shell	100
Liendensider	38
Hunk	38
Hunk Upgrader	40

Regina

Co-op Refinery	100
Upgrader	100
Moore Inc	100
Moore Low Asphalt	15

Great Falls

Montana Refining	10
------------------	----

Billings

CVS	30
ConocoPhillips	38
ExxonMobil	40

Winnipeg

Feather (Cheniere)	32
USDA America (Cargill)	25
Seaboard (Cargill)	26
Winnipeg (Newcastle)	14

South Lake City

Big West	20
Cheniere	20
Holly	20
Tecoco	28

Oklahoma

ConocoPhillips/Fraco City	140
Holly	120
Valero (Andrews)	30
Wynnewood	70

Borger/McKee

WIS	110
Valero	110

El Paso

Western Refining	120
------------------	-----

Newark/Texas City

BP	115
ConocoPhillips	217
ExxonMobil	200
Houston Refining	200
Wynnewood	70
Valero (C)	190

Three Rivers

Valero	120
Corpus Christi	180
CTCO	180
Liberty	200
Valero	210

McPherson

NCIA	80
El Dorado	100
Frontier	100
Calfield Refineries	110

St. Paul

Flint Hills	120
Northern Tier	70

2010 Canadian Crude Oil Production

	000 m/bbl	000 b/d
British Columbia	5	31
Alberta	326	2,052
Saskatchewan	67	421
Manitoba	5	32
Northwest Territories	2	15
Western Canada	405	2,552
Atlantic Canada	44	276
Total Canada	449	2,828

Montreal/Quebec

Suncor	120
Ultramar	260

Sarnia

Imperial	121
Nova	80
Shell	70
Suncor	80
Norfolk	112

Chicago

BP	400
ExxonMobil	330
PDV	147

Warren

United	70
--------	----

Detroit

Marathon	100
Valero	180
BP/Holly	180
PS	170
Lima	180
Holly	180
Carton	78
Marathon	212

Wood River

WIS	108
Robinson	108
Marathon	108

Memphis

Valero	190
El Dorado	80
Lima	80

Port Arthur/Beaumont

ExxonMobil	360
Valero	360
Total	114

Lake Charles/Carrville

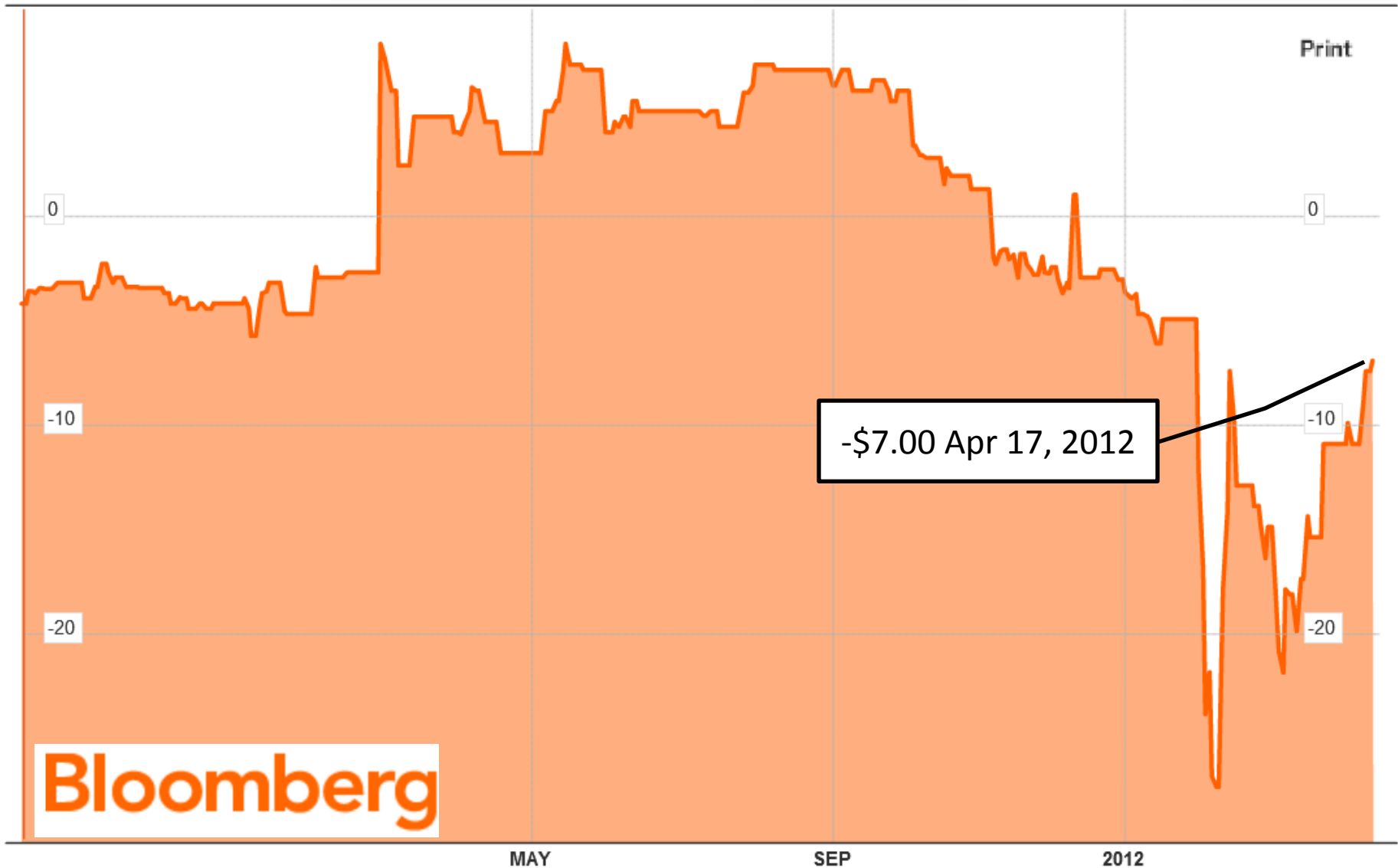
ConocoPhillips	238
CTCO	110
Marathon	110
Valero	210

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

OVERLAY ▼ INDICATORS ▼ ANNOTATIONS ▼ SETTINGS ▼

1D 1W 1M 3M 6M 1Y 3Y 5Y YTD

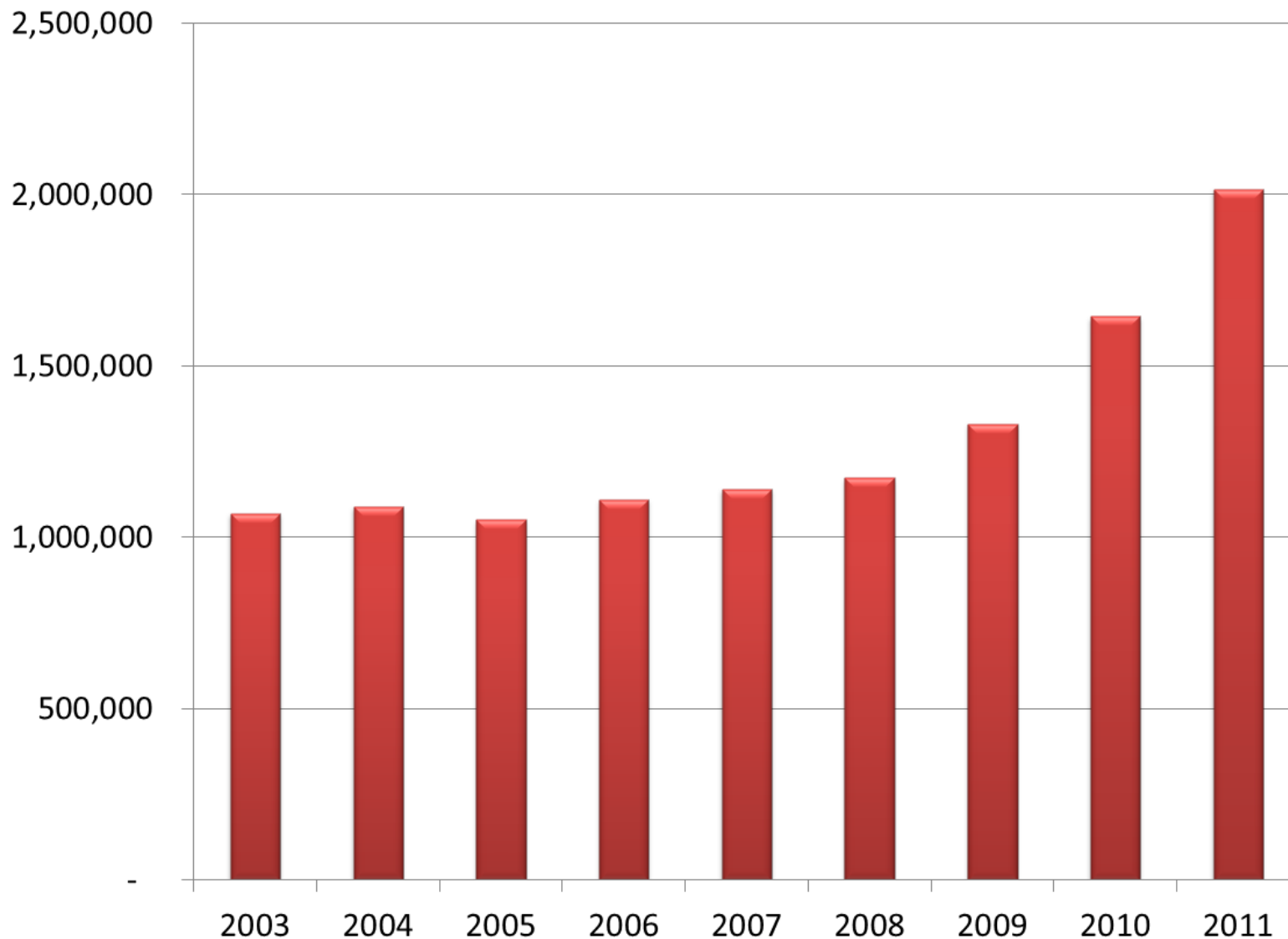
[?] Add a Comparison Add USCSUHC1:IND Open High Low Close



Natural Gas Projects



Homes Heated By ND Natural Gas



Based on Average US Home Natural Gas Consumption

Natural Gas Pipelines

Williston Basin
Interstate Pipeline

Alliance Pipeline

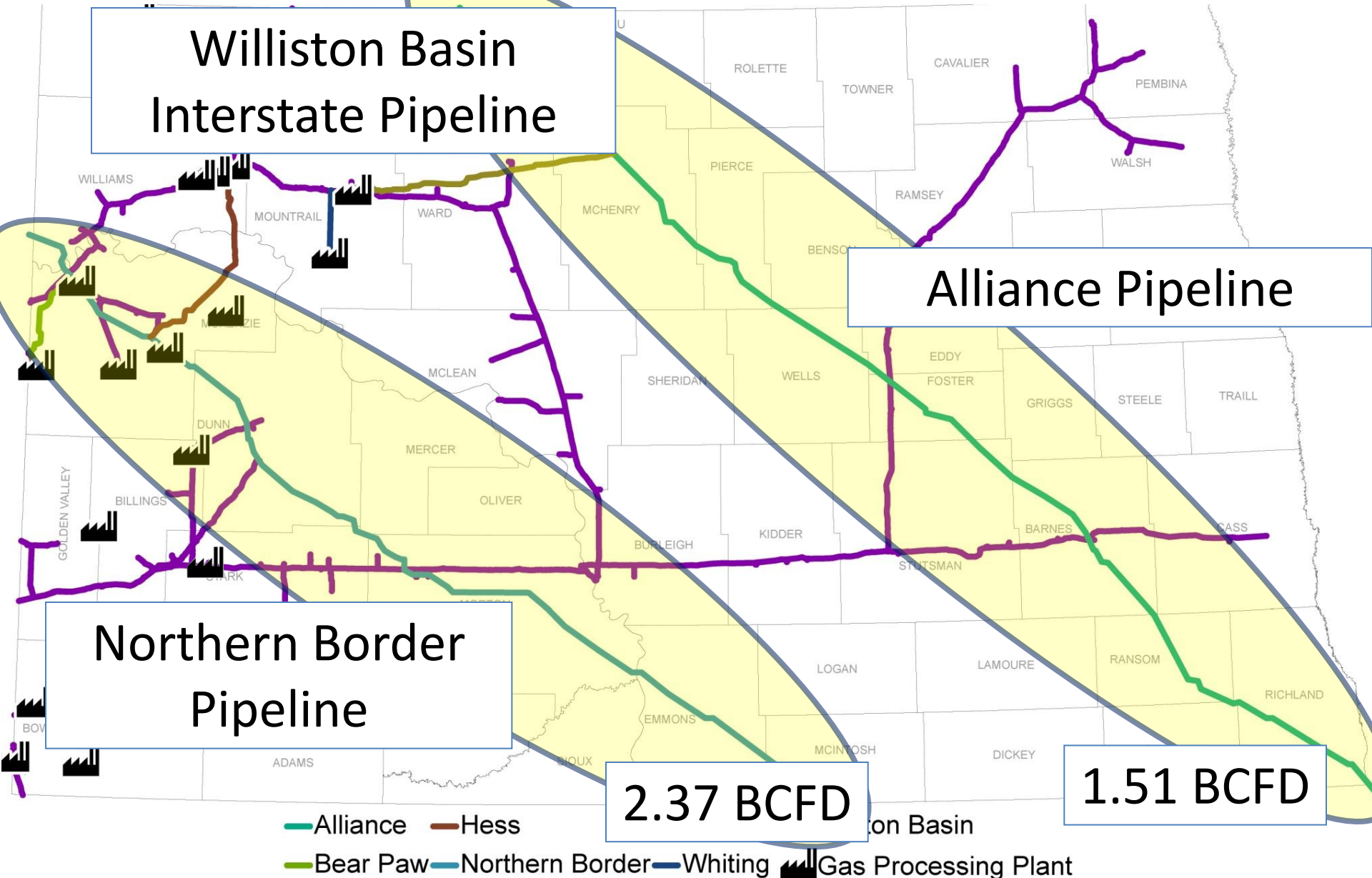
Northern Border
Pipeline

2.37 BCFD

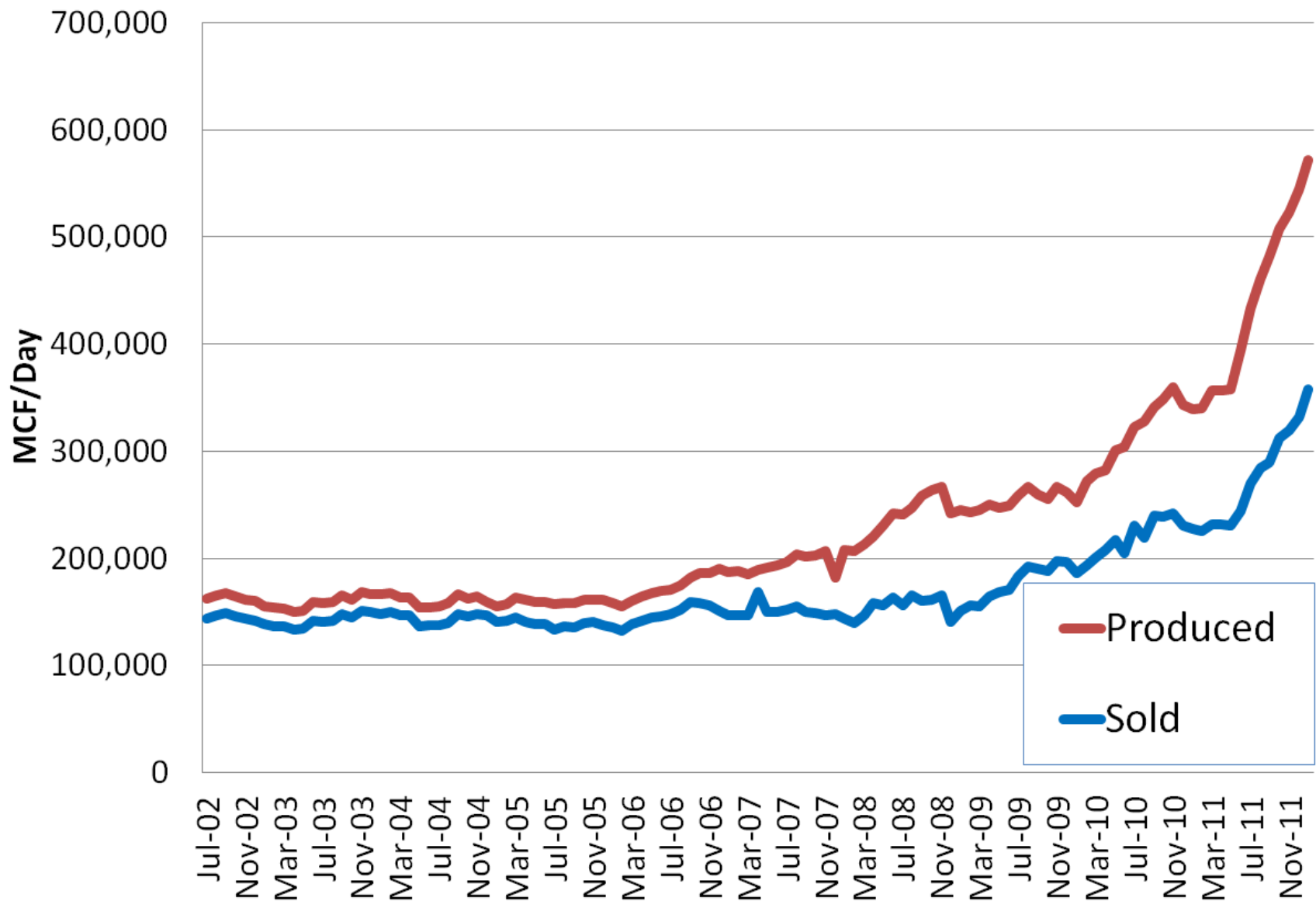
1.51 BCFD

— Alliance — Hess

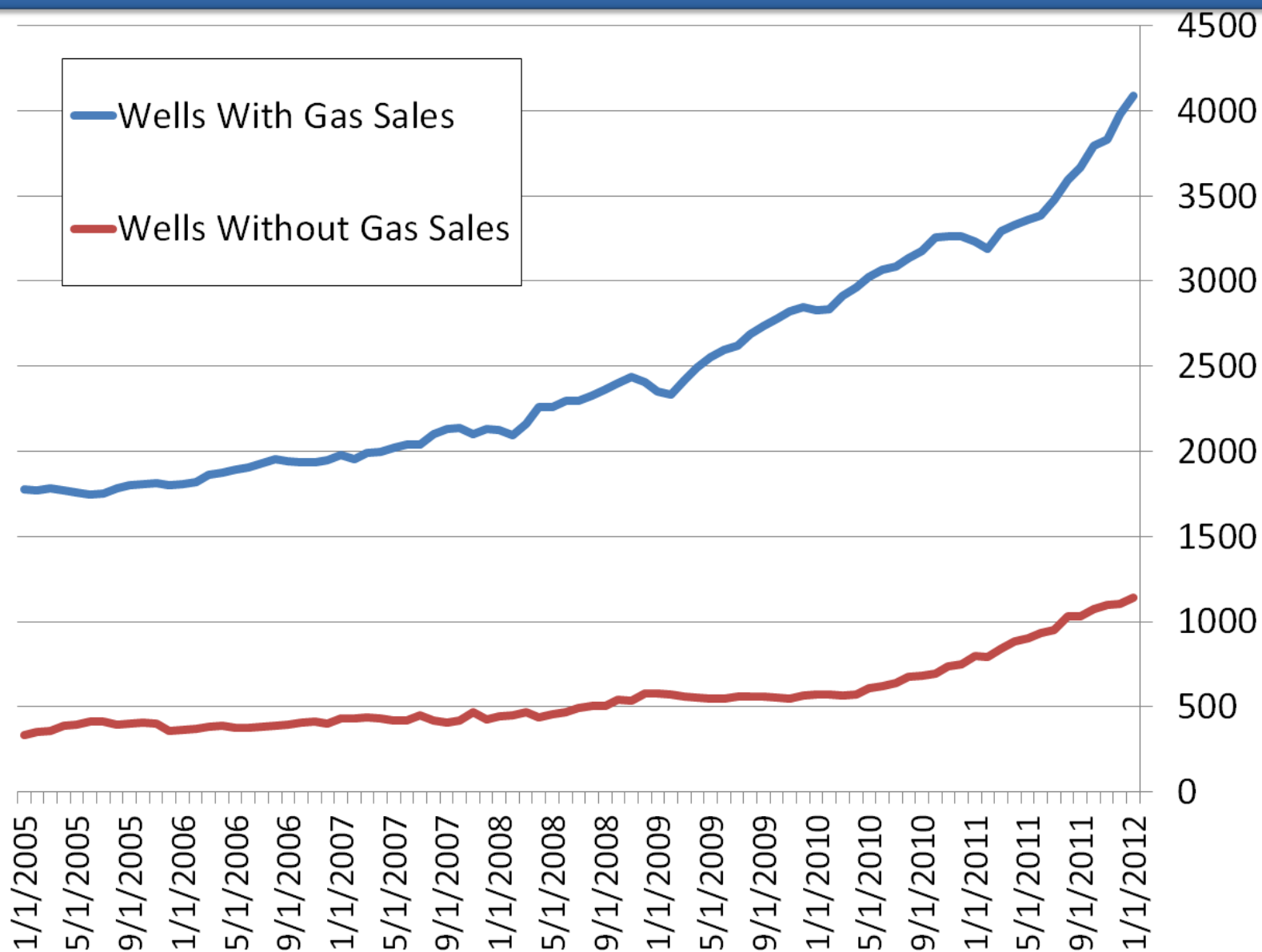
— Bear Paw — Northern Border — Whiting — Gas Processing Plant



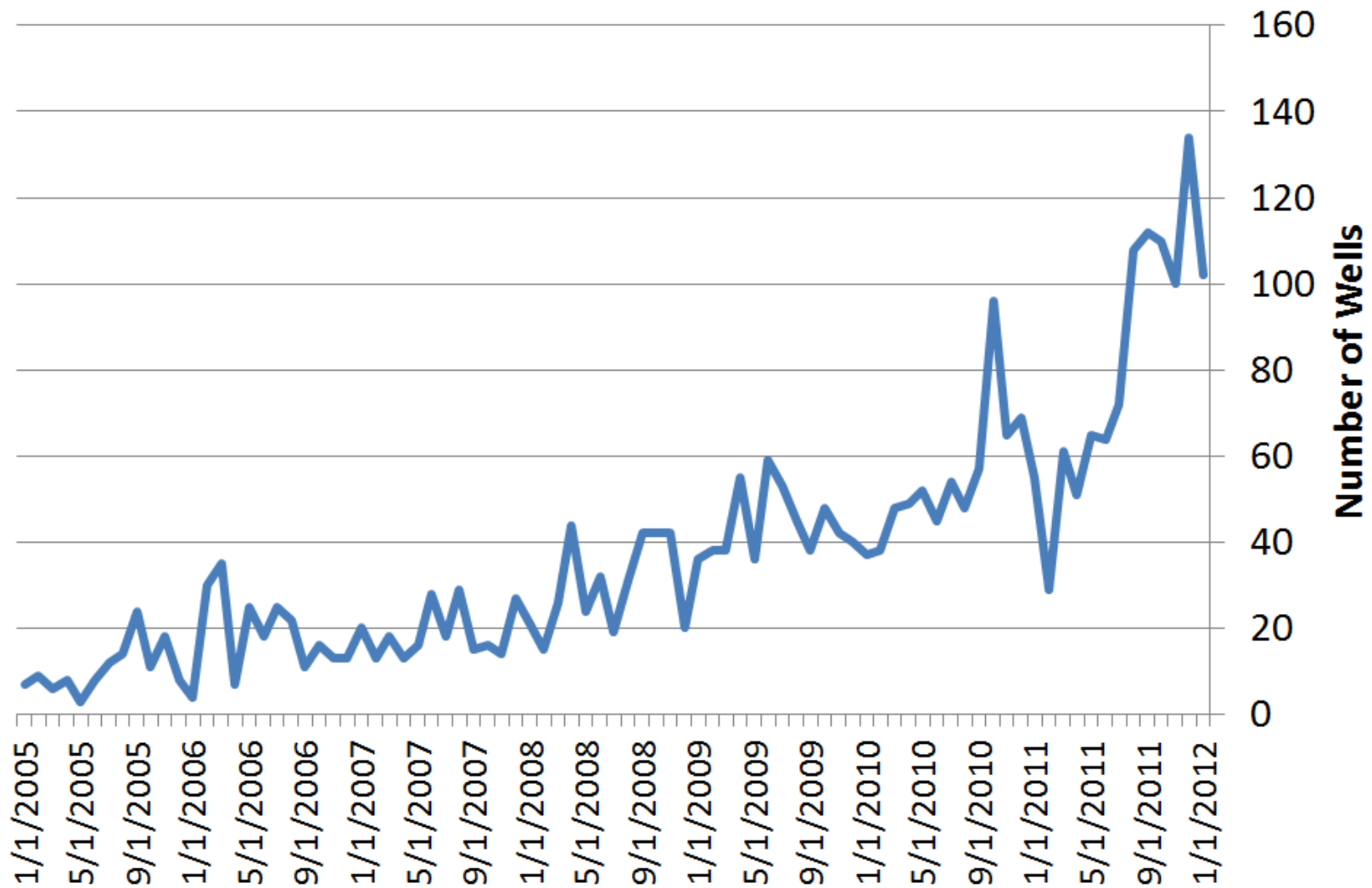
ND Gas Production



ND Gas Gathering Statistics

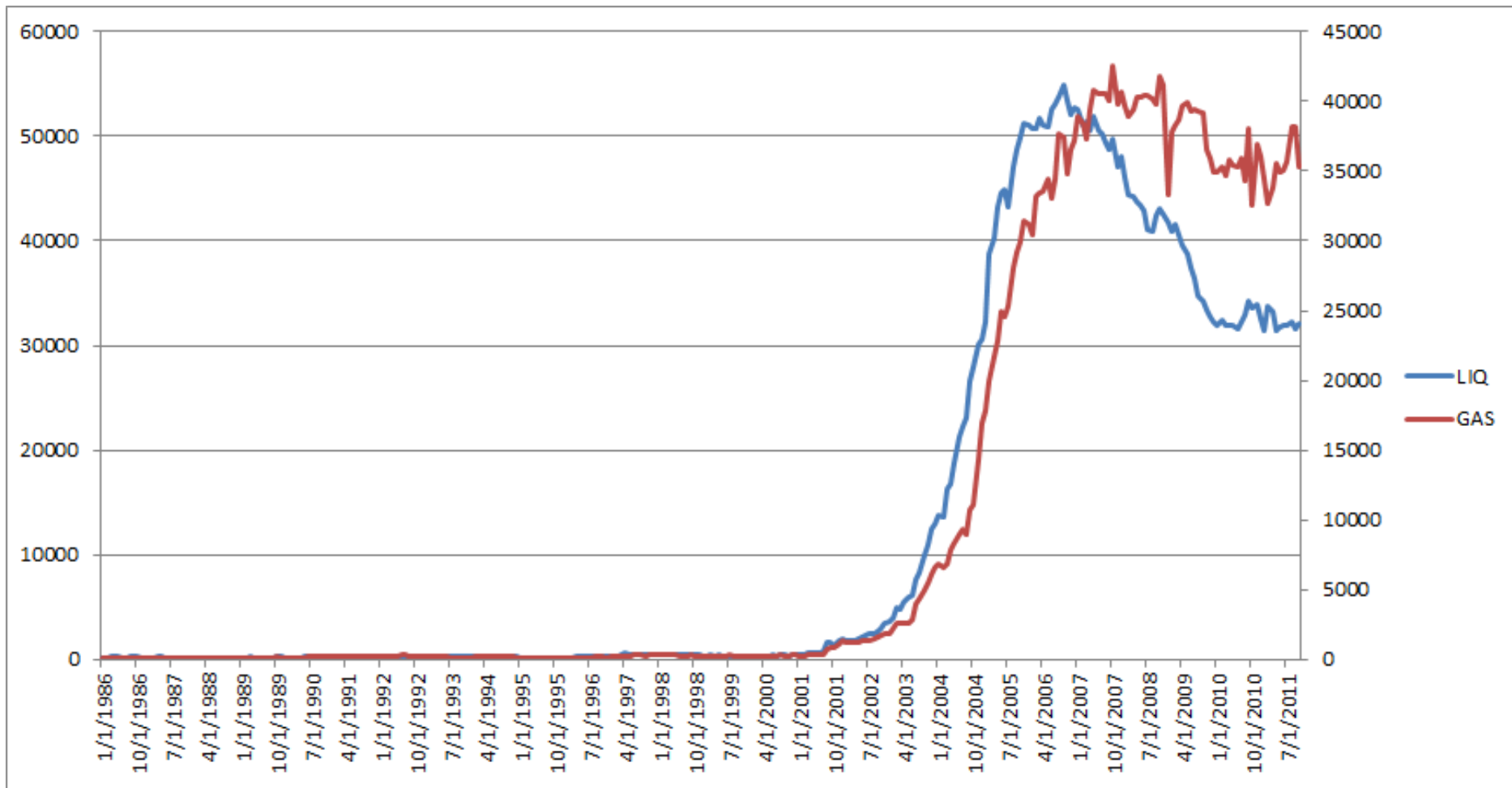


First Time Gas Sales Per Month



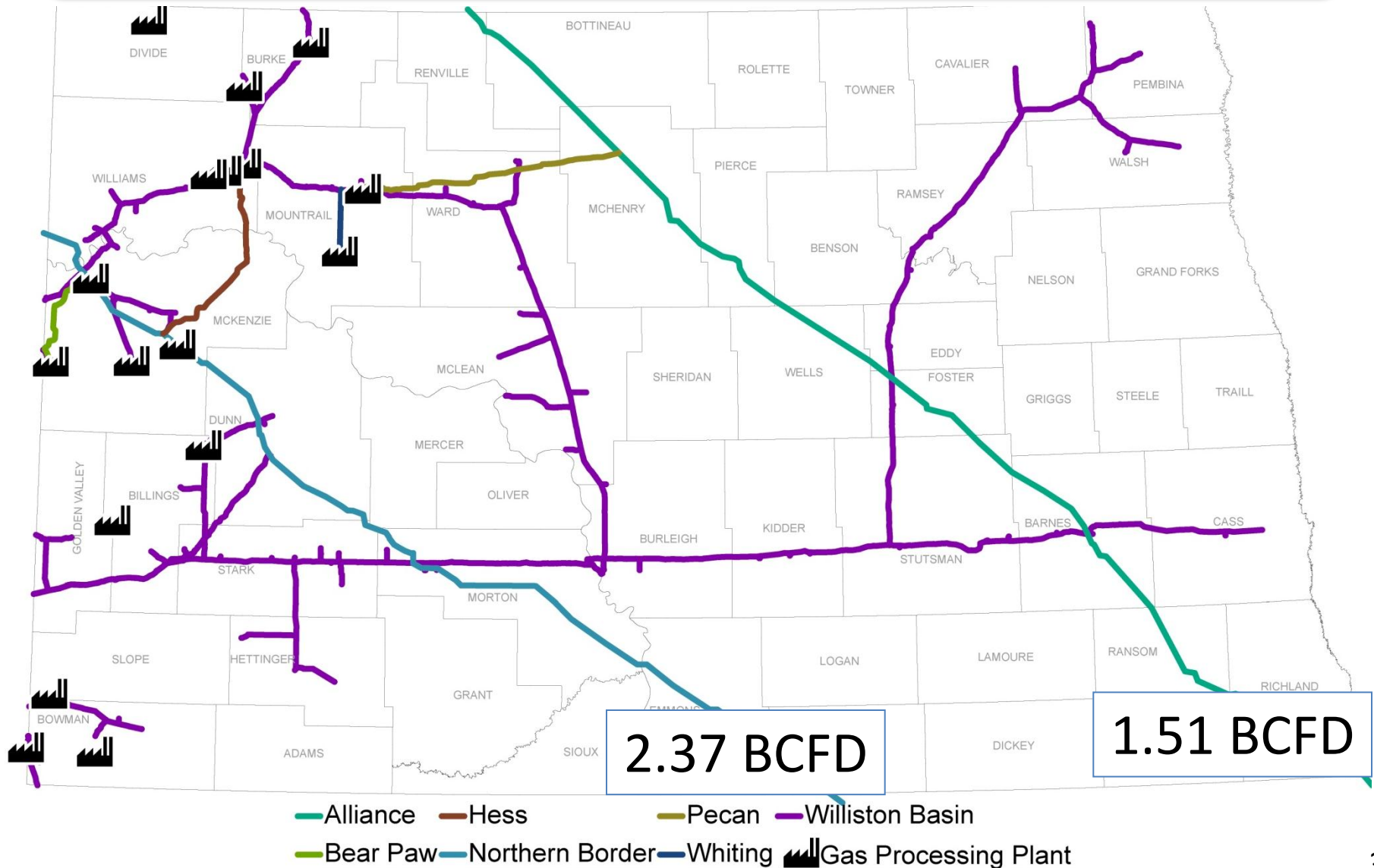
Natural Gas Study

Montana Bakken Production



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

Gas Transmission Pipelines



Pipeline Safety



Know what's below.
Call before you dig.

Contact Information

North Dakota Pipeline Authority

600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Phone: (701)220-6227

Fax: (701)328-2820

E-mail: jjkringstad@ndpipelines.com

Website:

www.pipeline.nd.gov



Know what's below.
Call before you dig.

