



Underground Gas Storage and Gas Strategies in North America Update 2012

Fredrick W. Metzger – Kinder Morgan Energy Partners

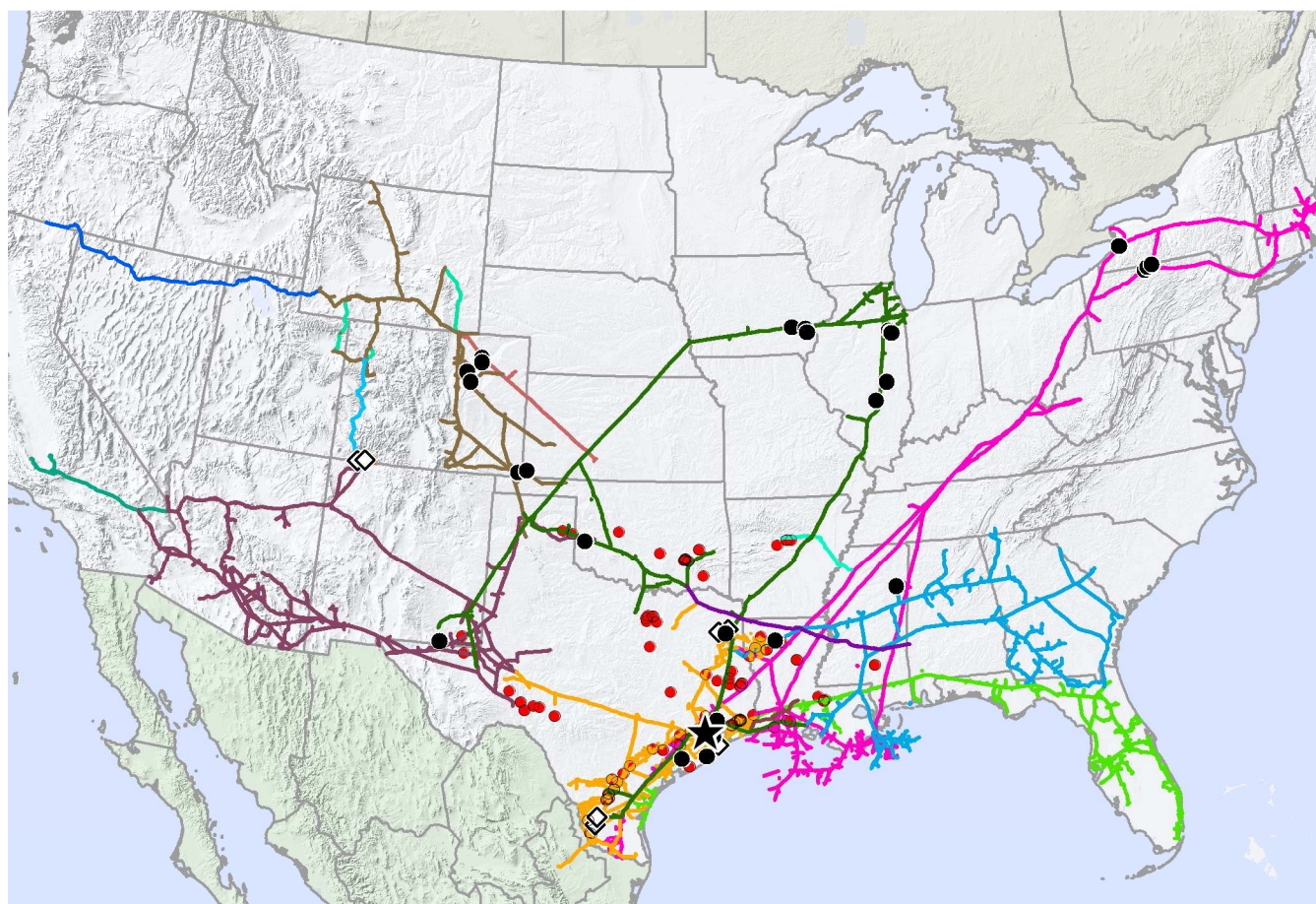
**2012 WOC 2 Kick-off Meeting
October 23-26, 2012
Bratislava, Slovakia**

Underground Gas Storage and Gas Strategies in North America



- **Introduction**
- **Natural Gas Transportation**
- **Underground Gas Storage**
- **Natural Gas Exploration & Production Activity**
- **Dramatic Changes in the Dynamics of the Gas Industry**
 - **When will LNG Imports Increase as Predicted?**
 - **When will the Arctic Natural Gas flow South?**

Kinder Morgan Pipelines and Storage

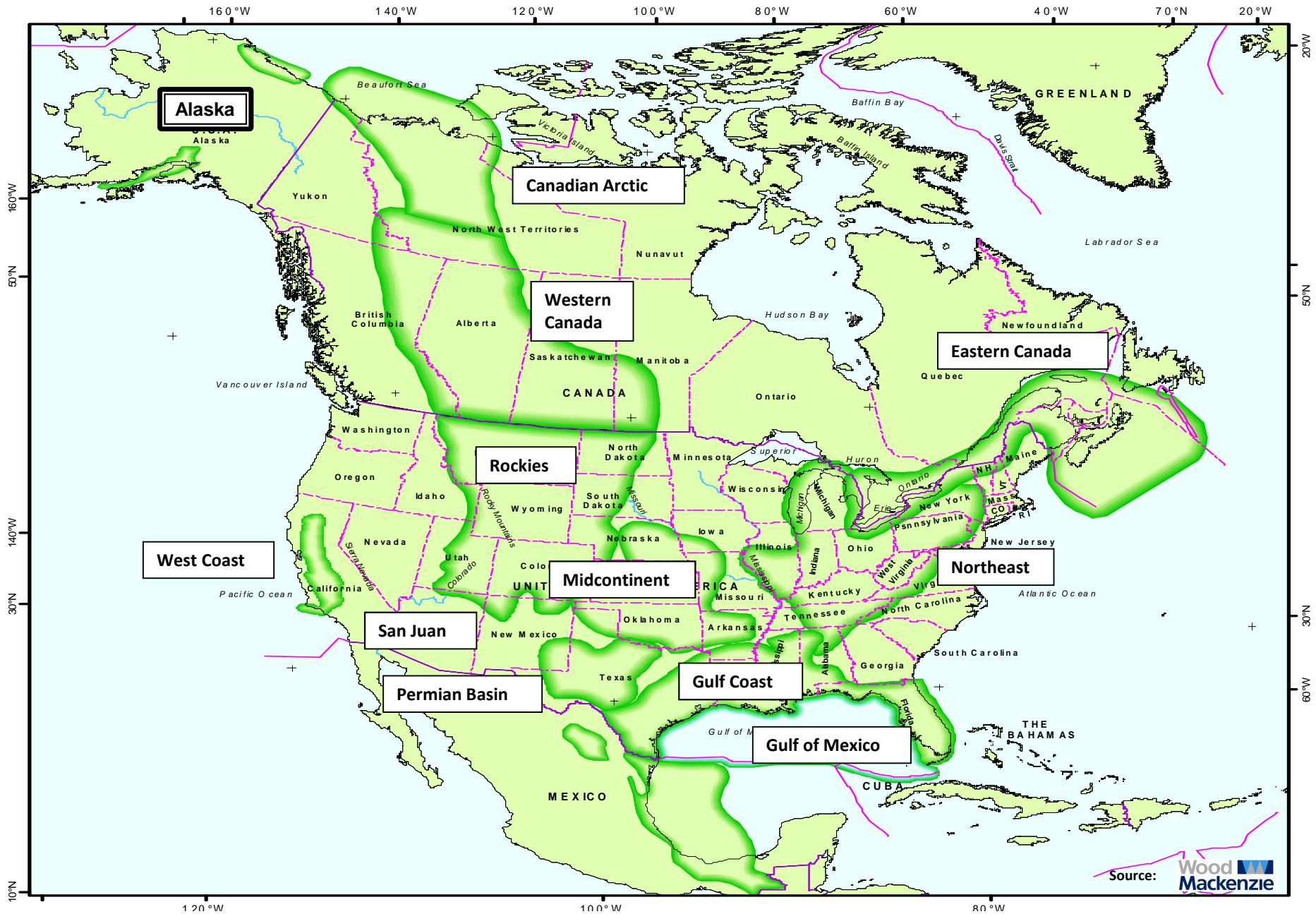


● Kinder Morgan Storage:

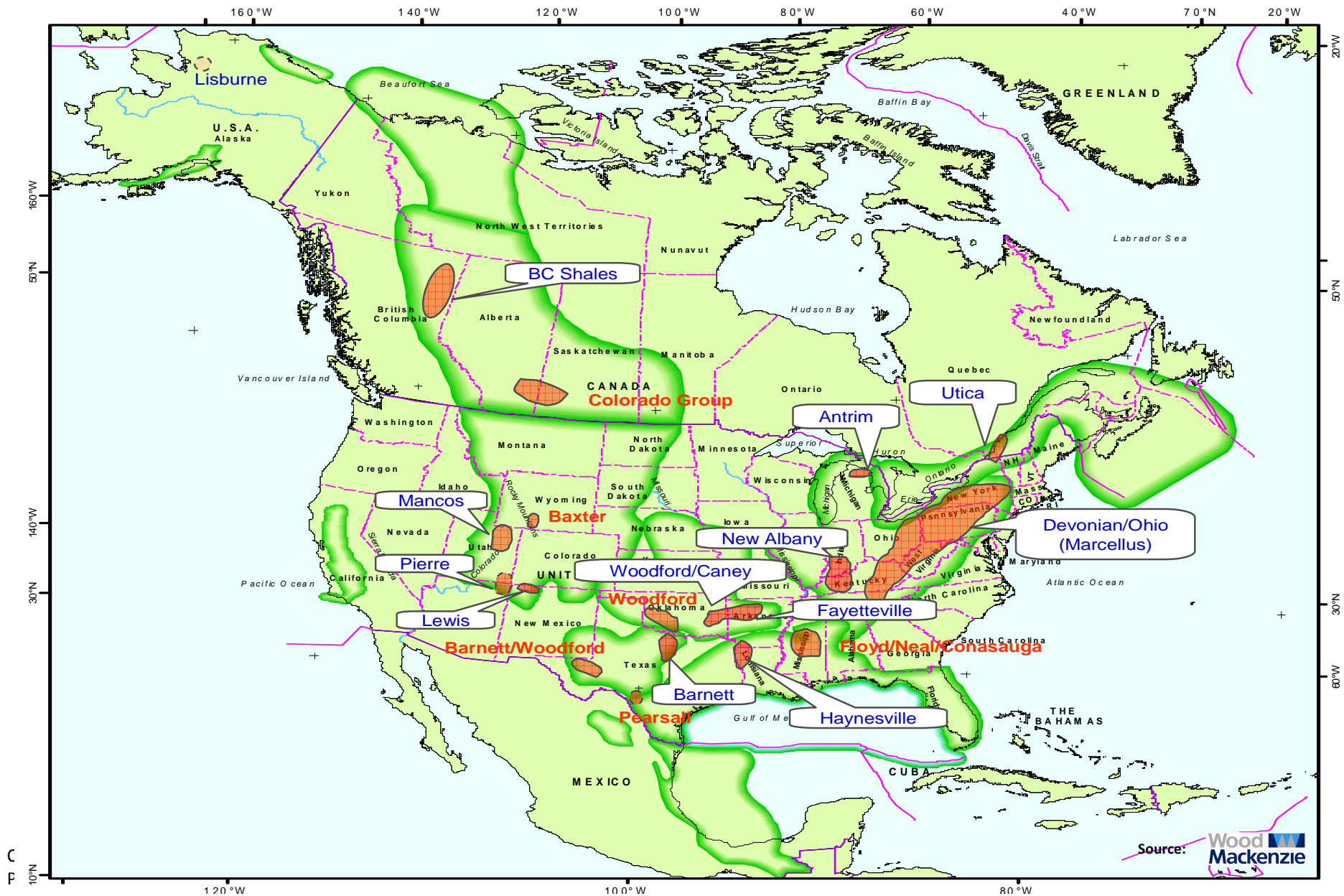
- Second Largest Working gas capacity next to Gazprom
- 12 States
- 17 Depleted Reservoir
- 10 Aquifers
- 10 Domal Salt Caverns
- 685 Bcf of working capacity (8/8)
- 634 Bcf of controlled working capacity
- 1.334 Tcf total Capacity
- 1692 Wells

— NGPL	— KMTMP	— SNG	● Storage Field
— TCGT	— CIG	— TGP	◇ Gas Processing
— MEP	— CPGP	— WIC	● Gas Treaters
— FEP	— EPNG	— RUBY	★ KM Headquarters
— KMLP	— MPC	— FGT	

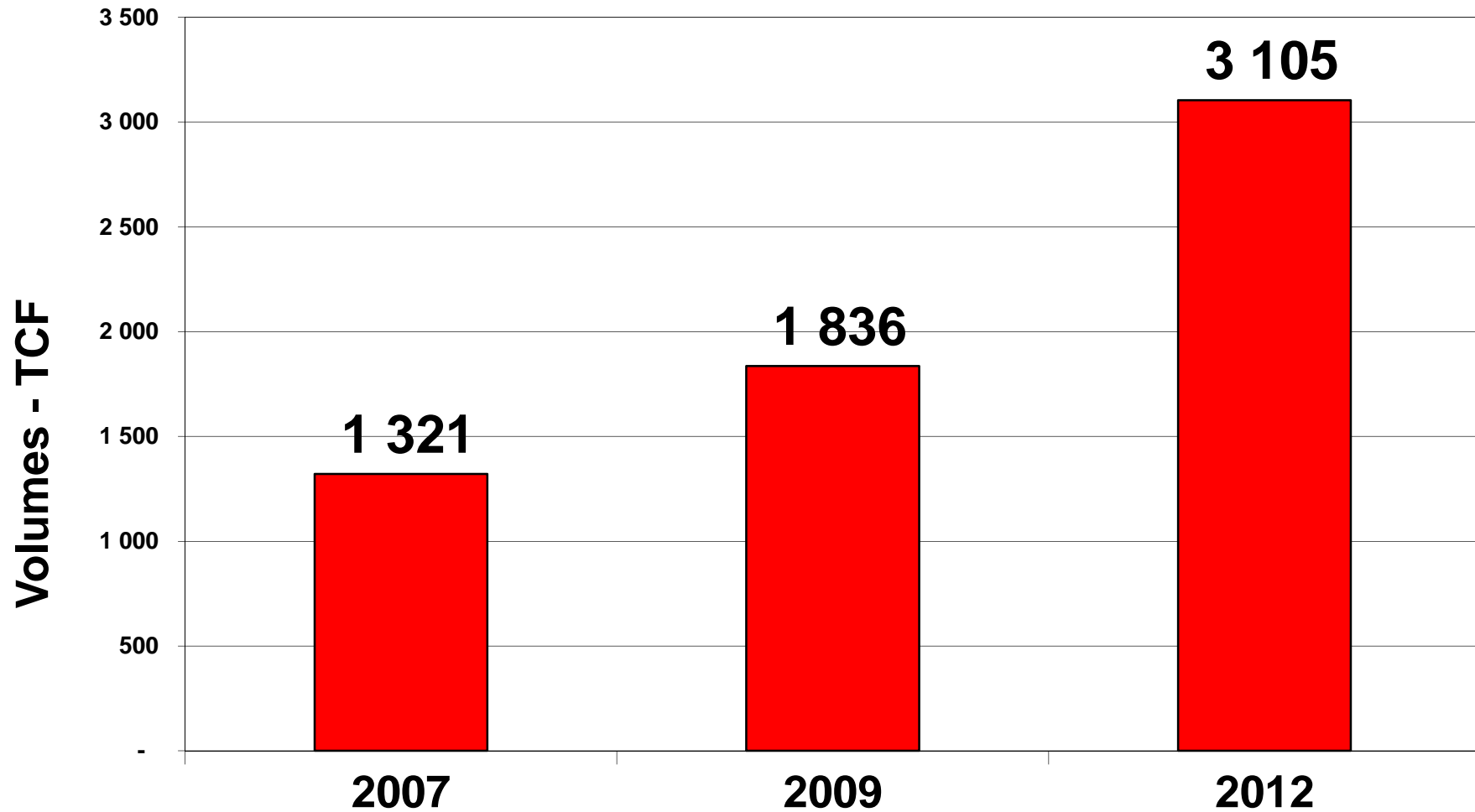
North American Supply Basins



North American Shale Basins

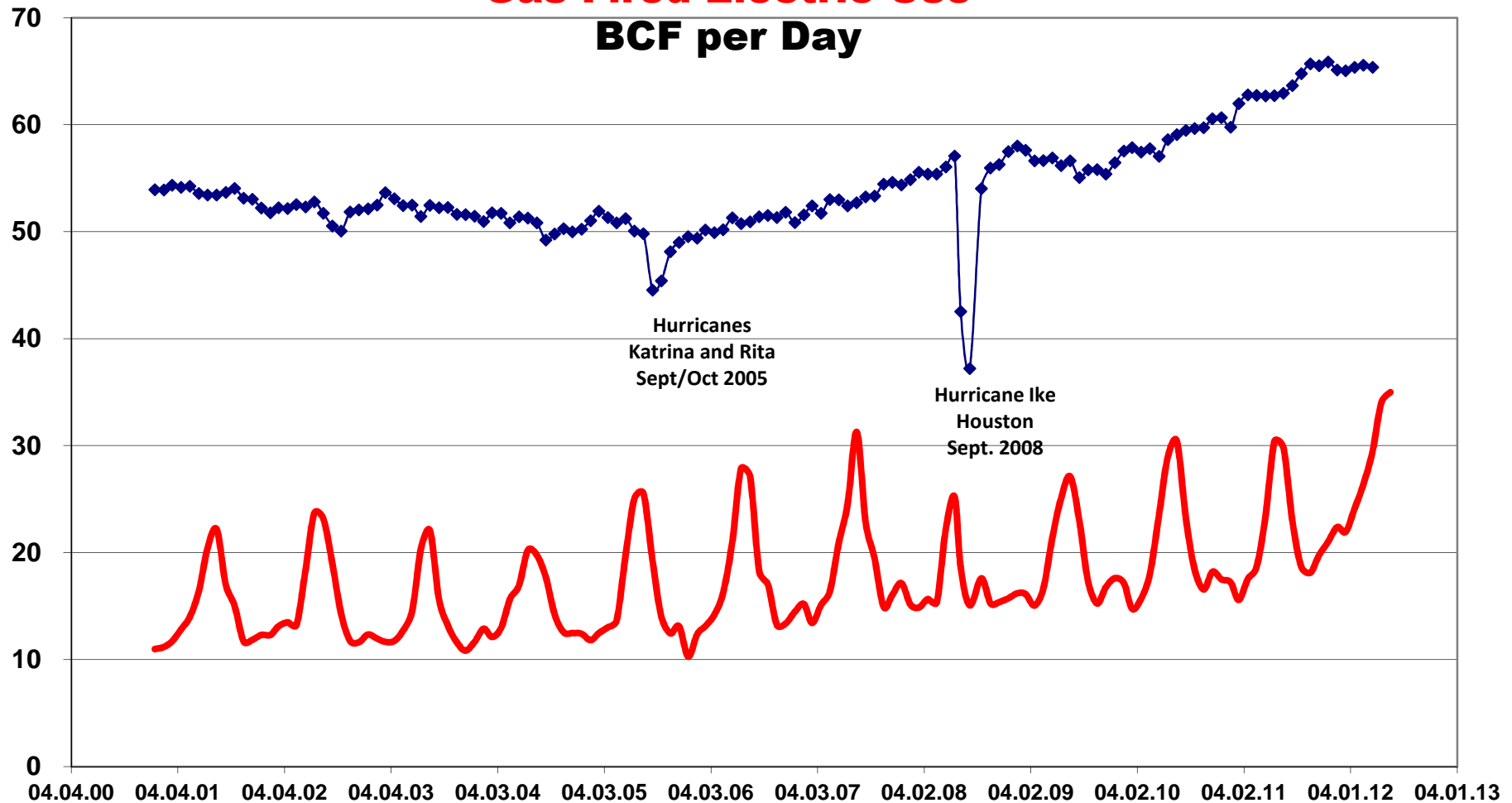


United States–Potential Gas Resources



EIA Monthly Dry Gas Reports

Monthly US Gas Production Gas Fired Electric Use

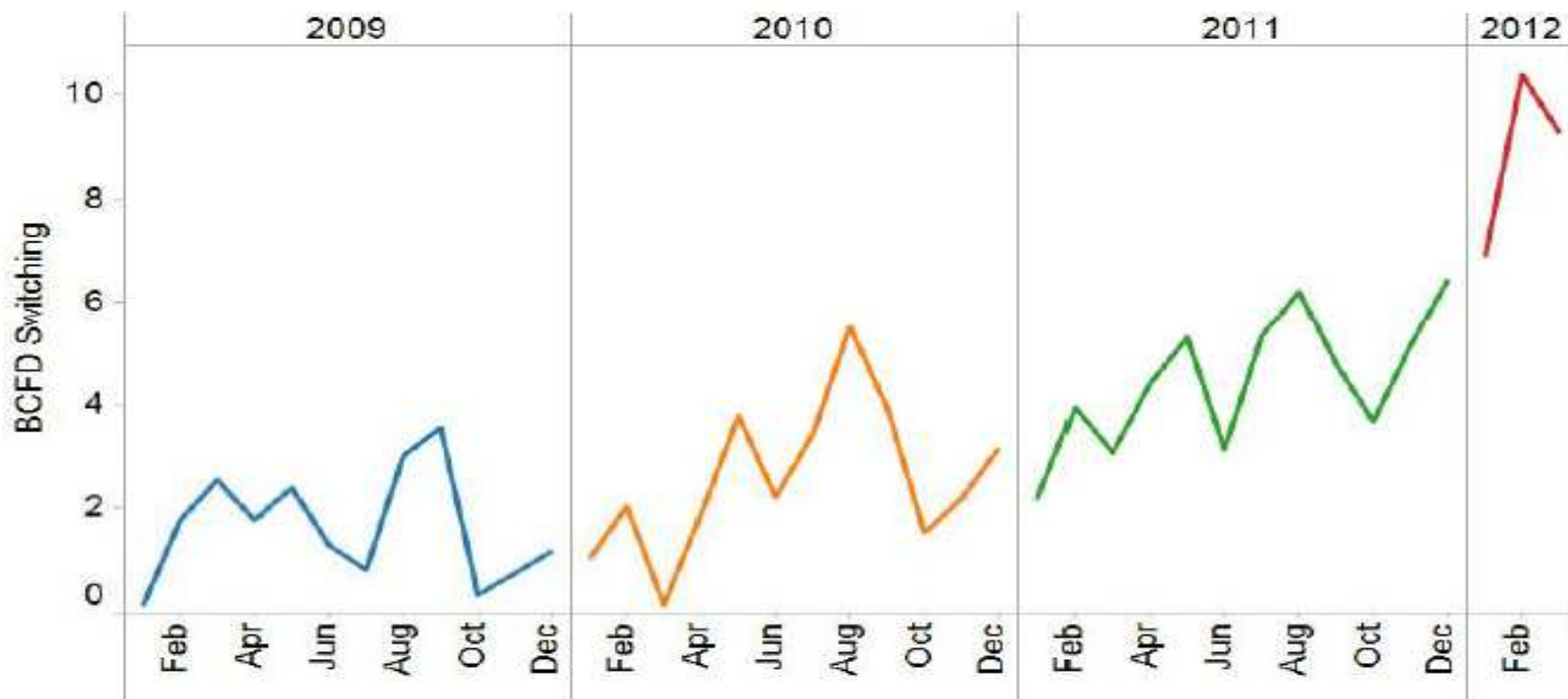


Coal to Gas Switching

Macquarie
Commodities Research

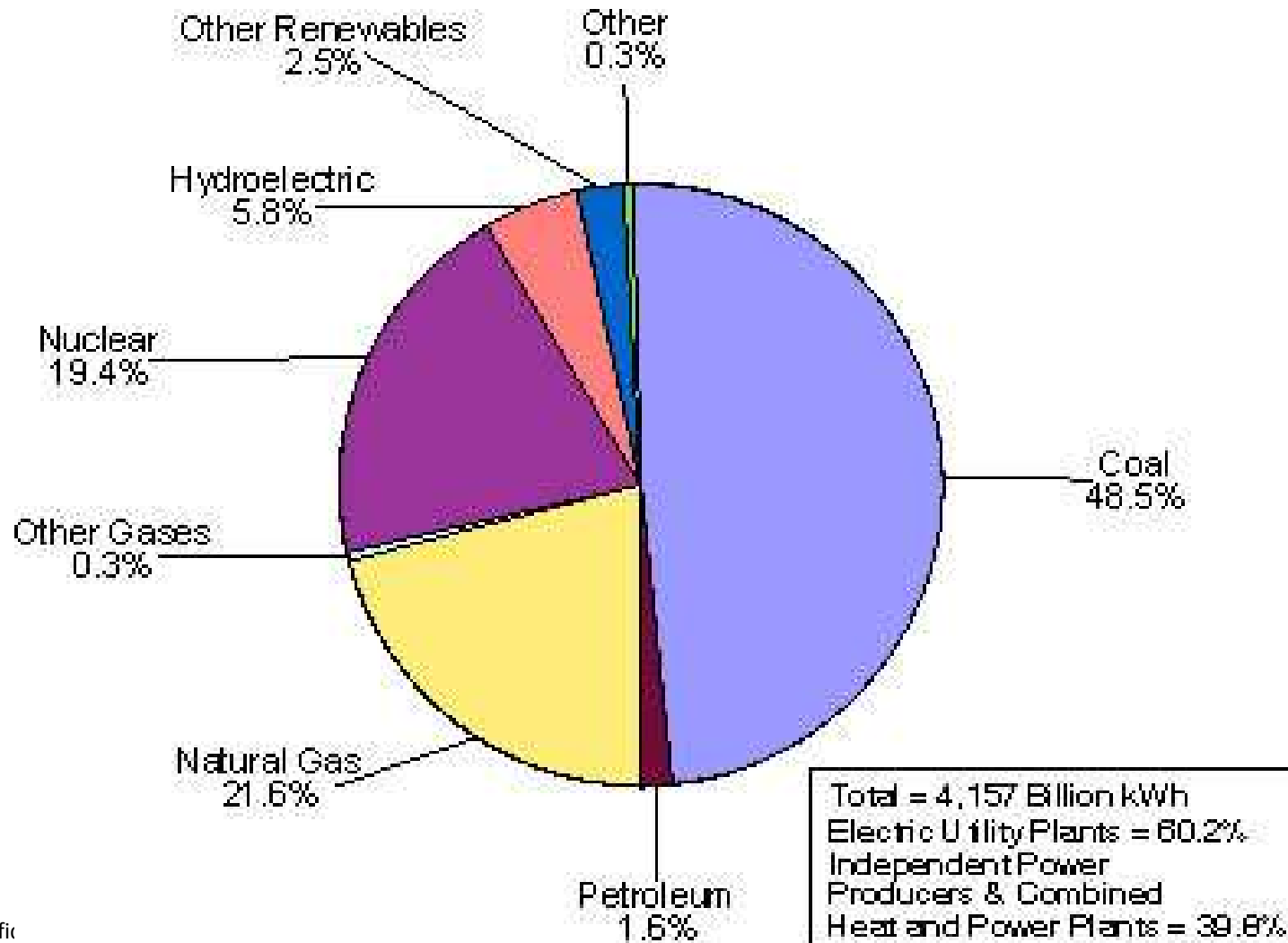


Coal to gas switching: You May Notice a Subtle Trend

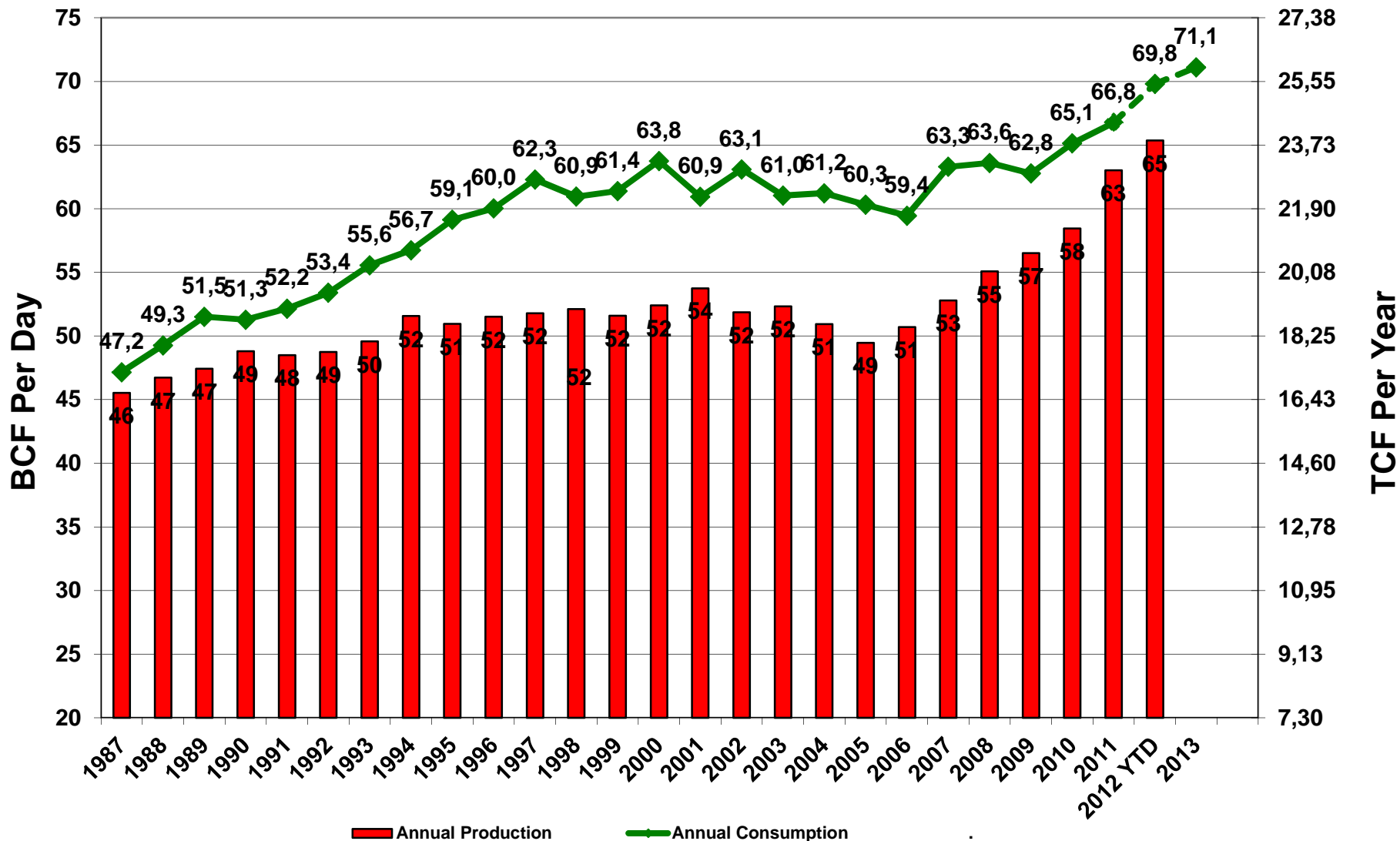


Source: HPDI, EIA, Macquarie Capital (USA), June 2012, Weekly NG S-D Analysis Full

US Electric Generation - 2007



United States Gas Production & Consumption

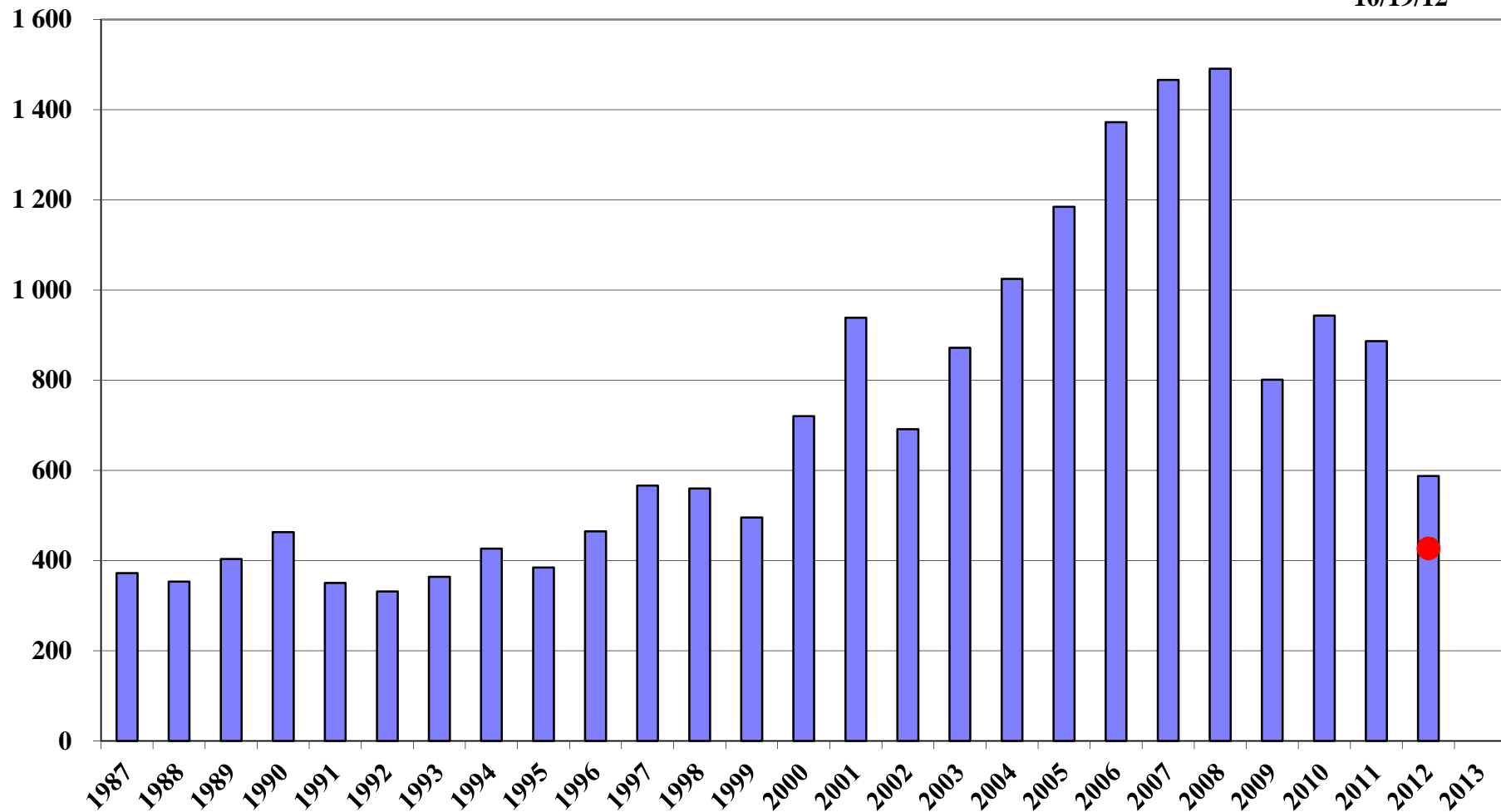


QBR June 13, 2012

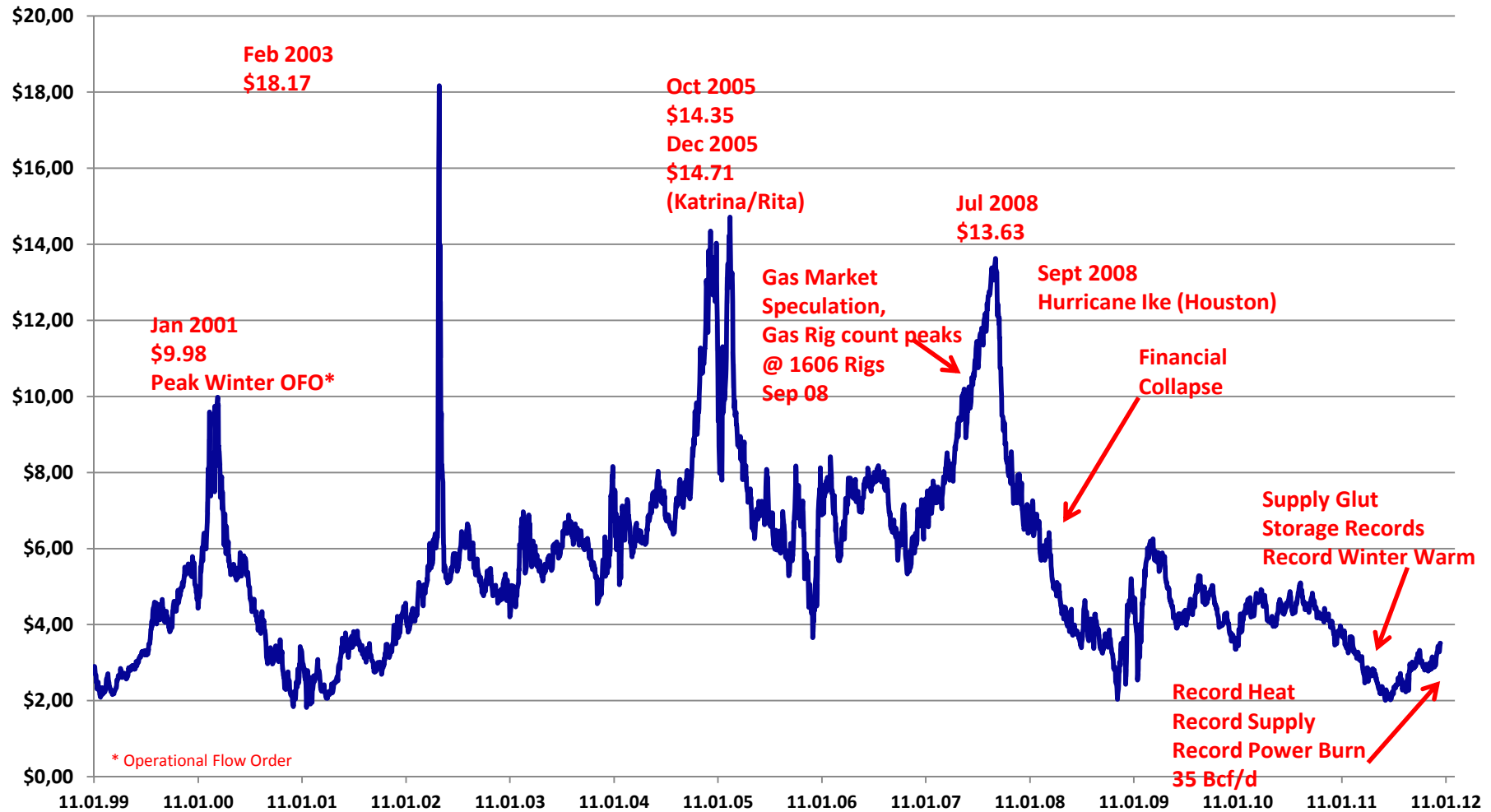
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National Gas Directed Rig Count

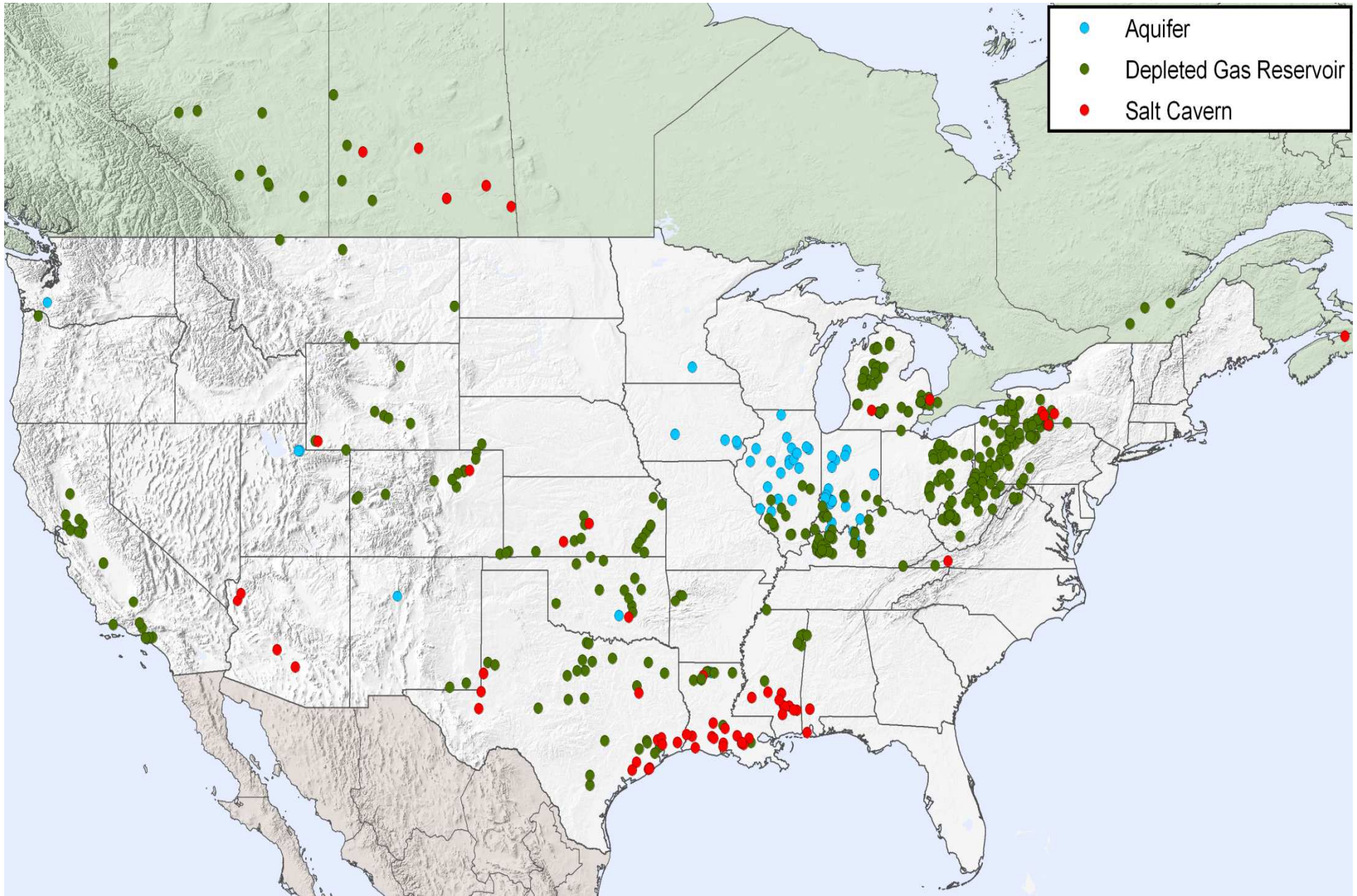
427
Current Week
10/19/12



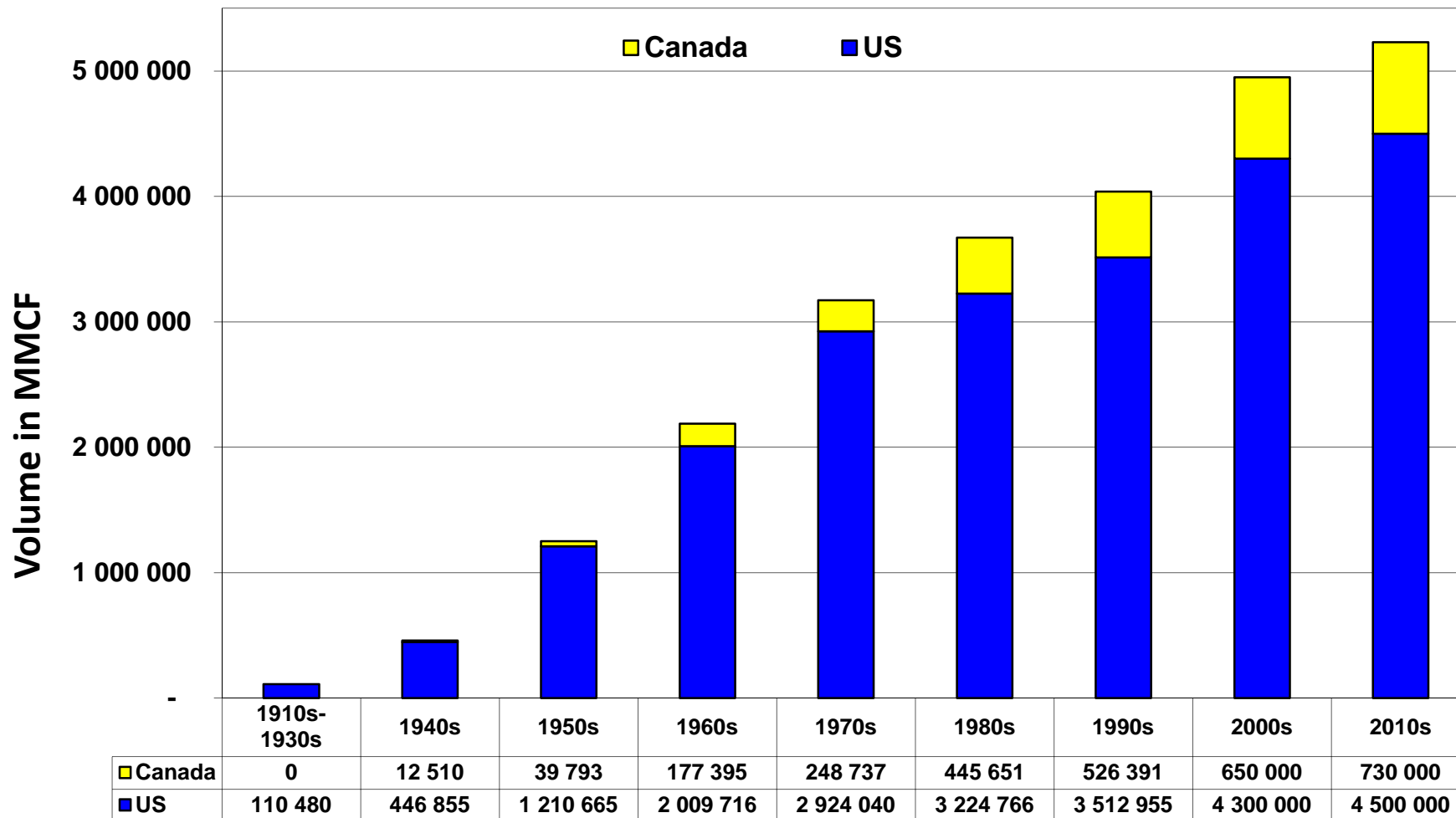
Northern USA Spot Gas Prices 1999-2012



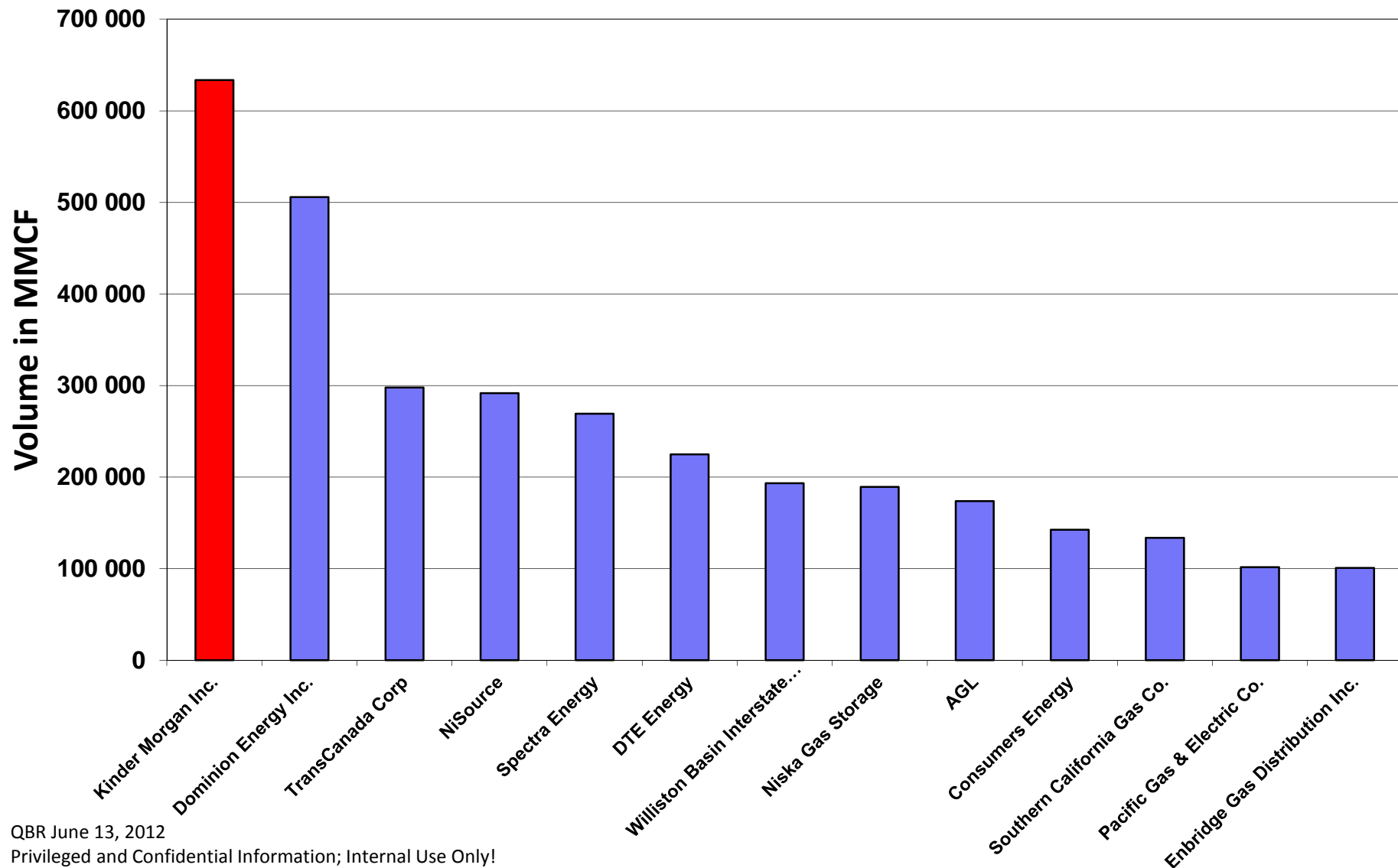
North American Storage Types



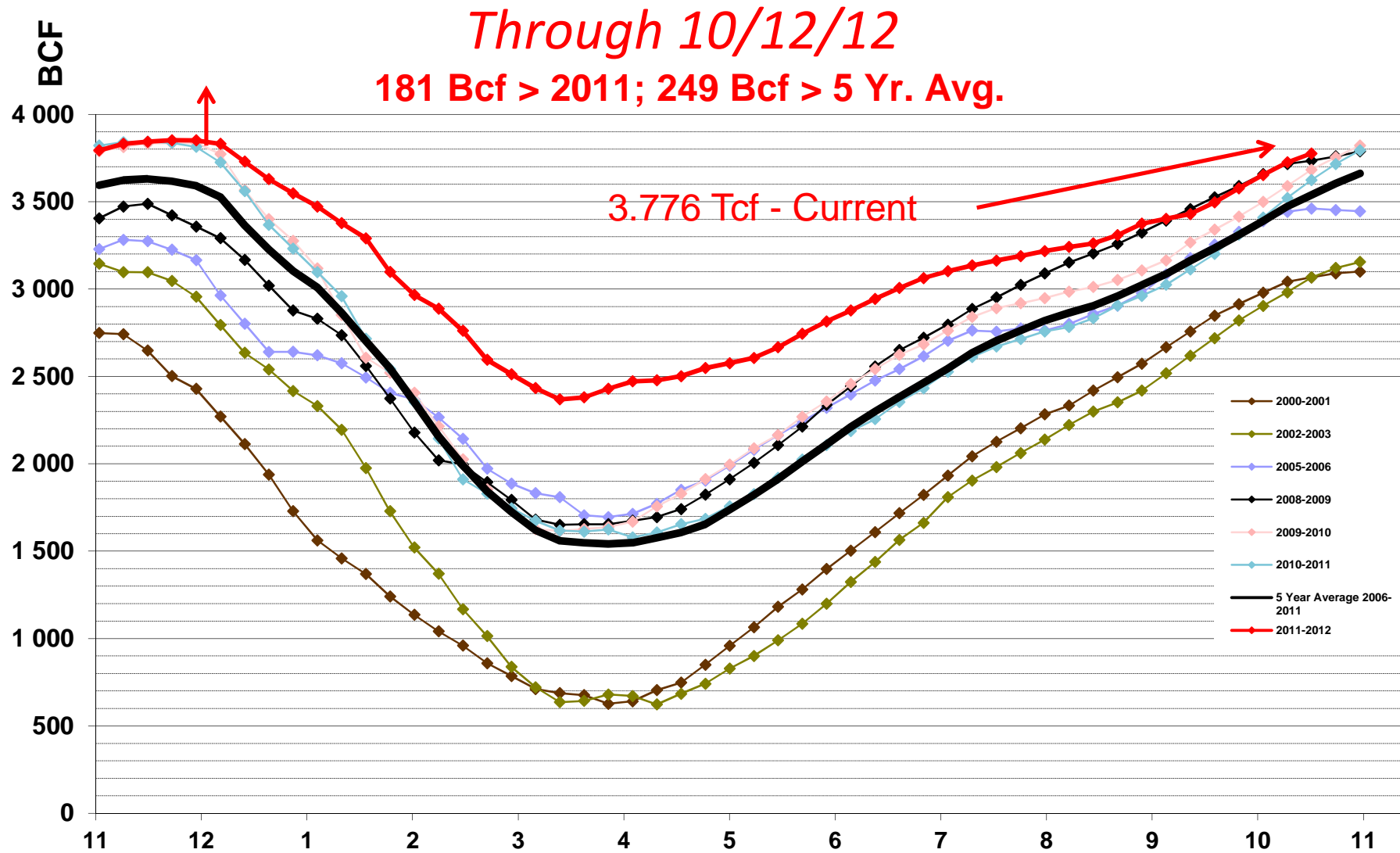
Cumulative North American Storage Development History



Top North American Operators

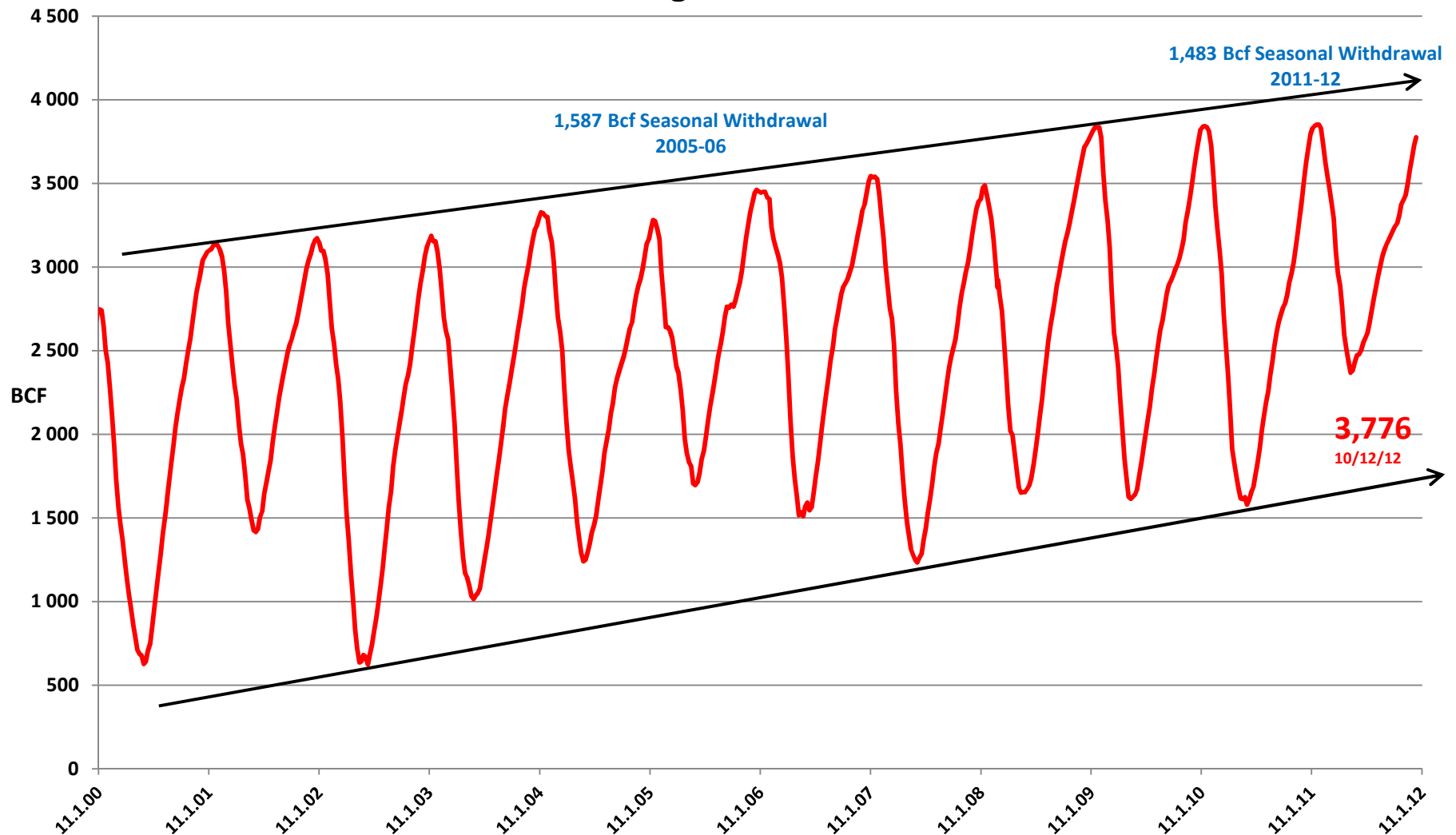


National Storage Activity



National Storage Activity

Through 10/12/12



International Gas Prices



Source: Waterborne Energy, Global LNG Estimated Nov 2011 Landed Prices

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