

# **OE ENERGY MARKET SNAPSHOT**

## **Mid-Atlantic States Version – October 2012 Data**

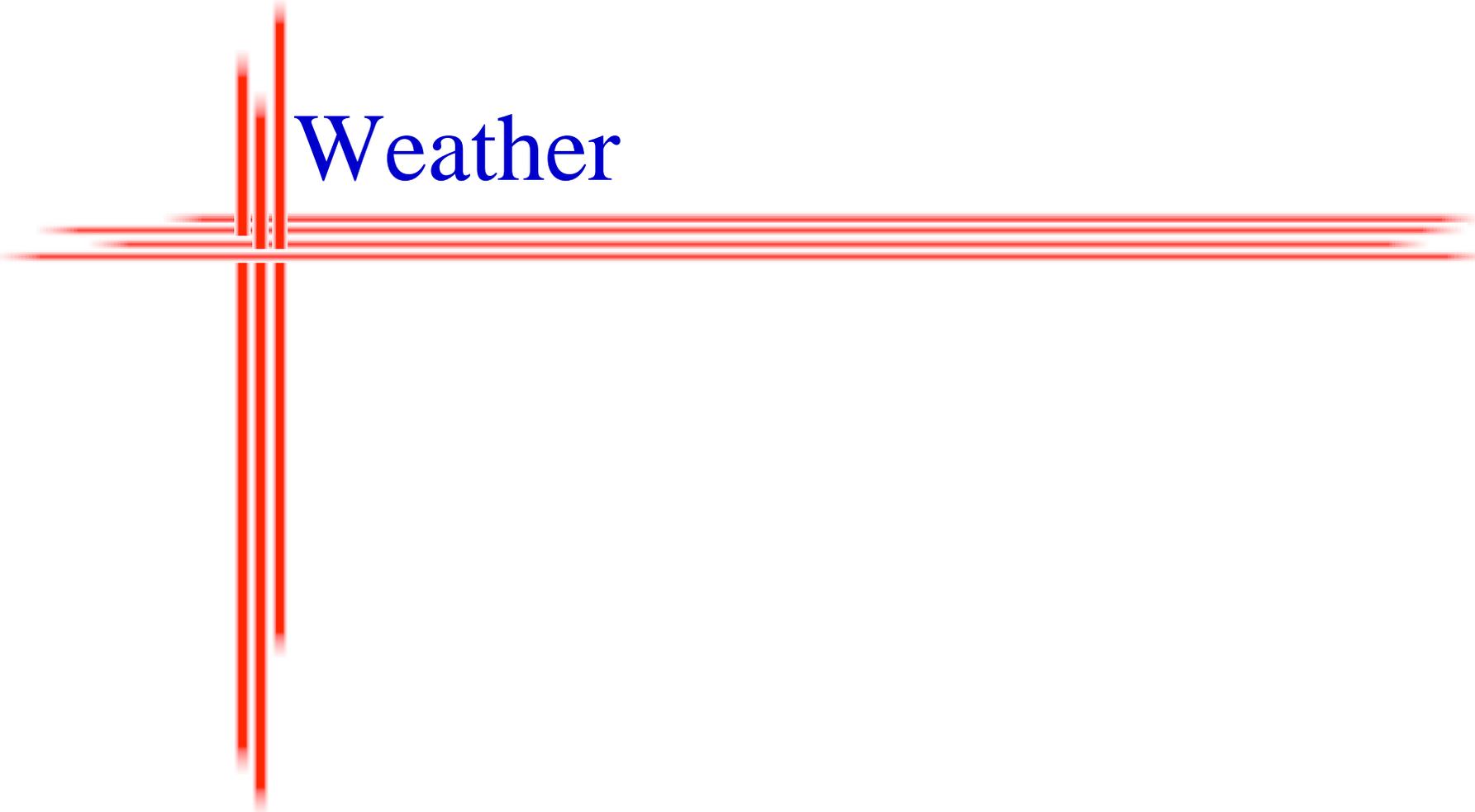
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Office of Enforcement  
Federal Energy Regulatory Commission  
November 2012



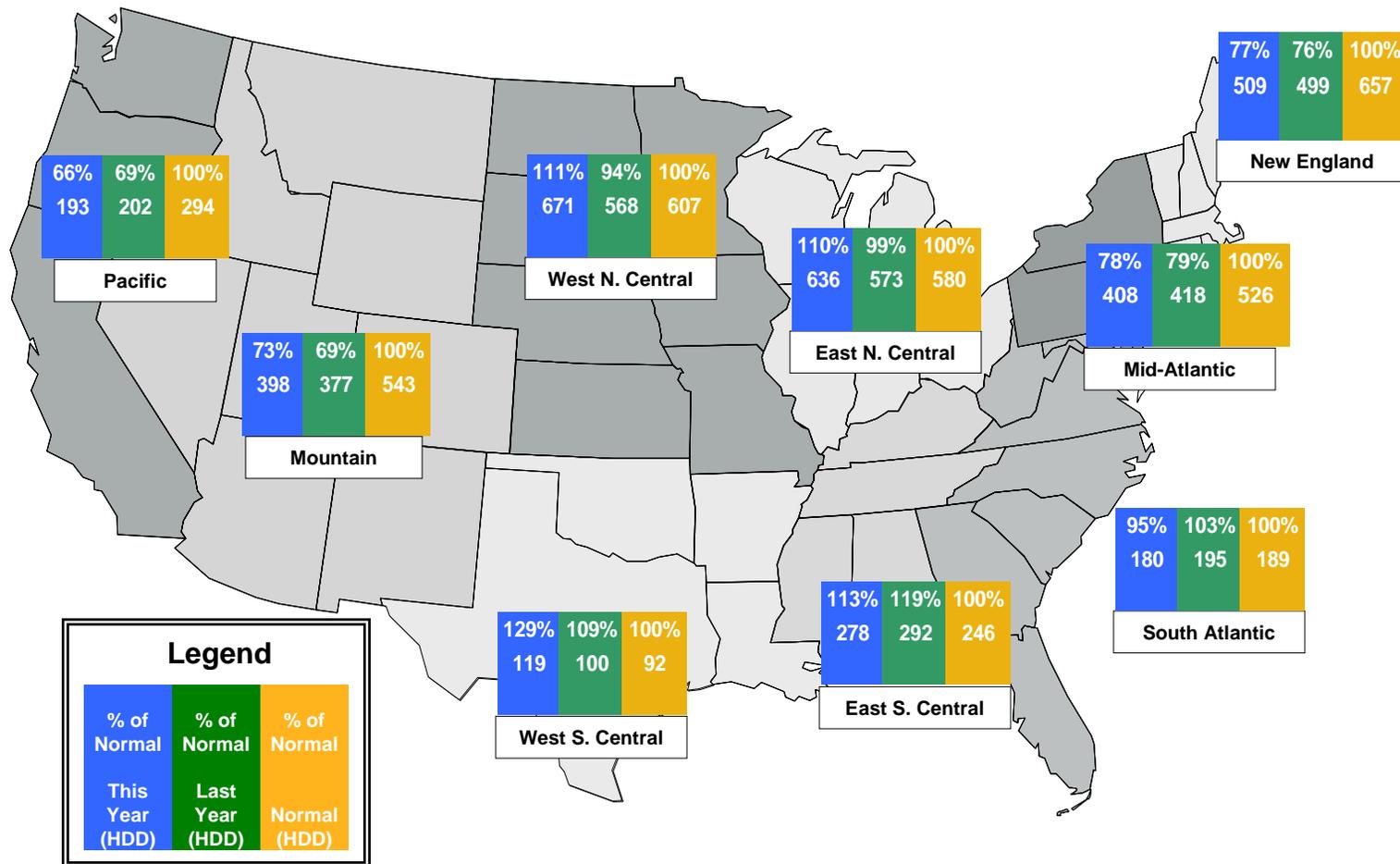
# Infrastructure Report

October Infrastructure Report



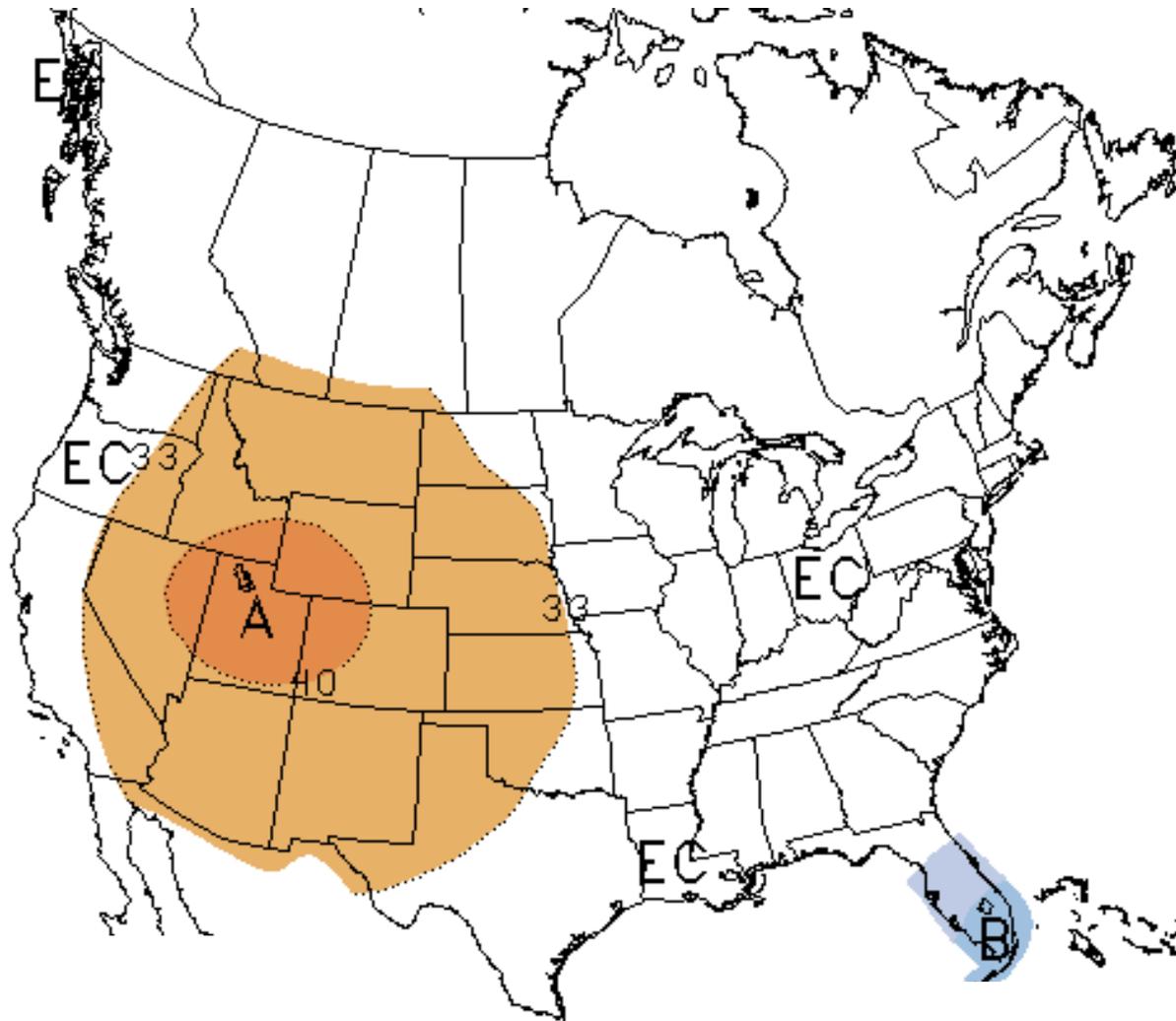
# Weather

## Regional Heating Degree Days – July 2012 to October 2012



Source: Derived from NOAA data. Normal is based on a 30-year average of heating degree day data.

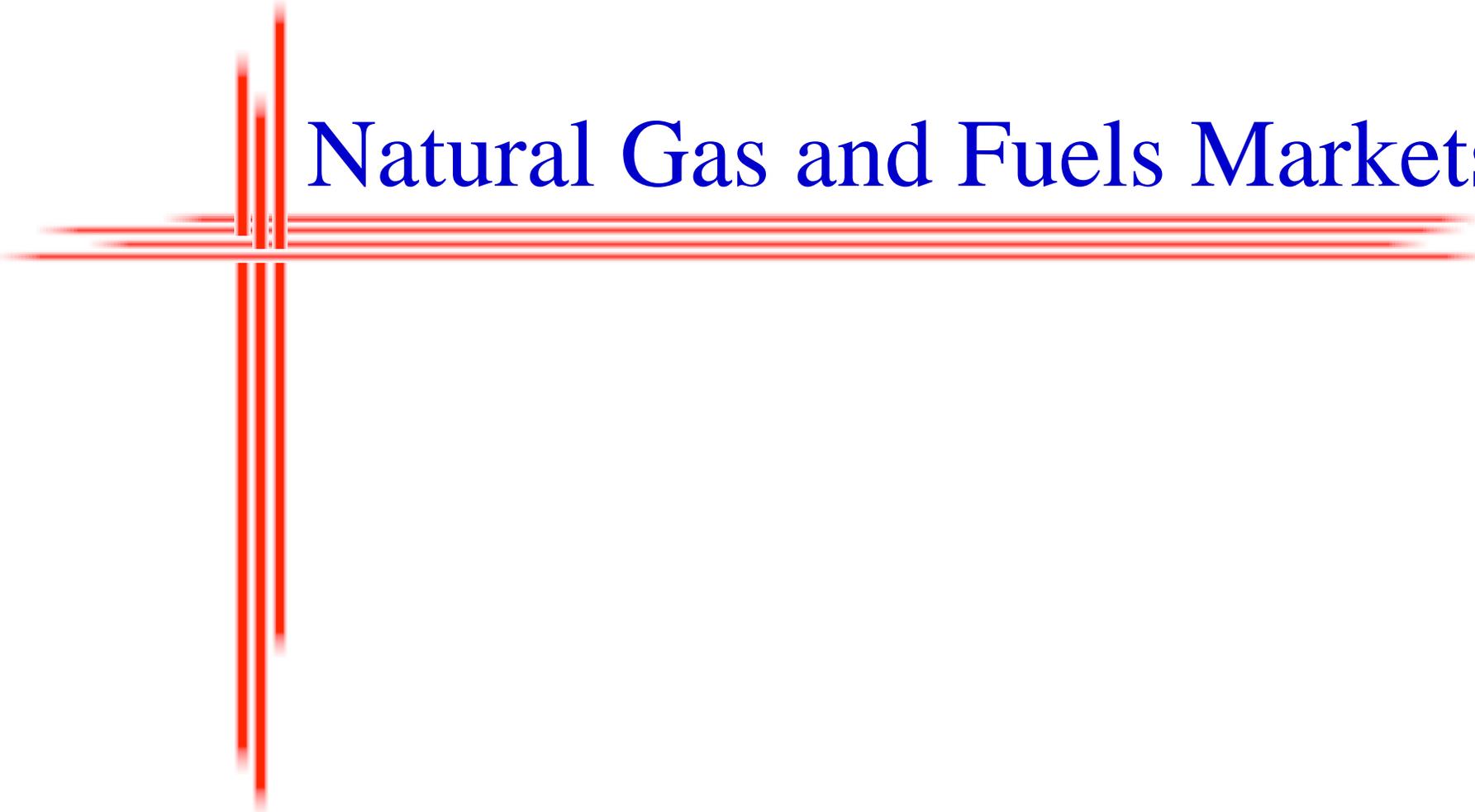
## NOAA's 3 Month Temperature Forecast Made October 18, 2012, Valid for November 2012 – January 2013



Note: "A" areas are above normal, B areas are below normal and "EC" means equal chance. Normal is based on the last 30 years of data.

Source: Derived from NOAA data.

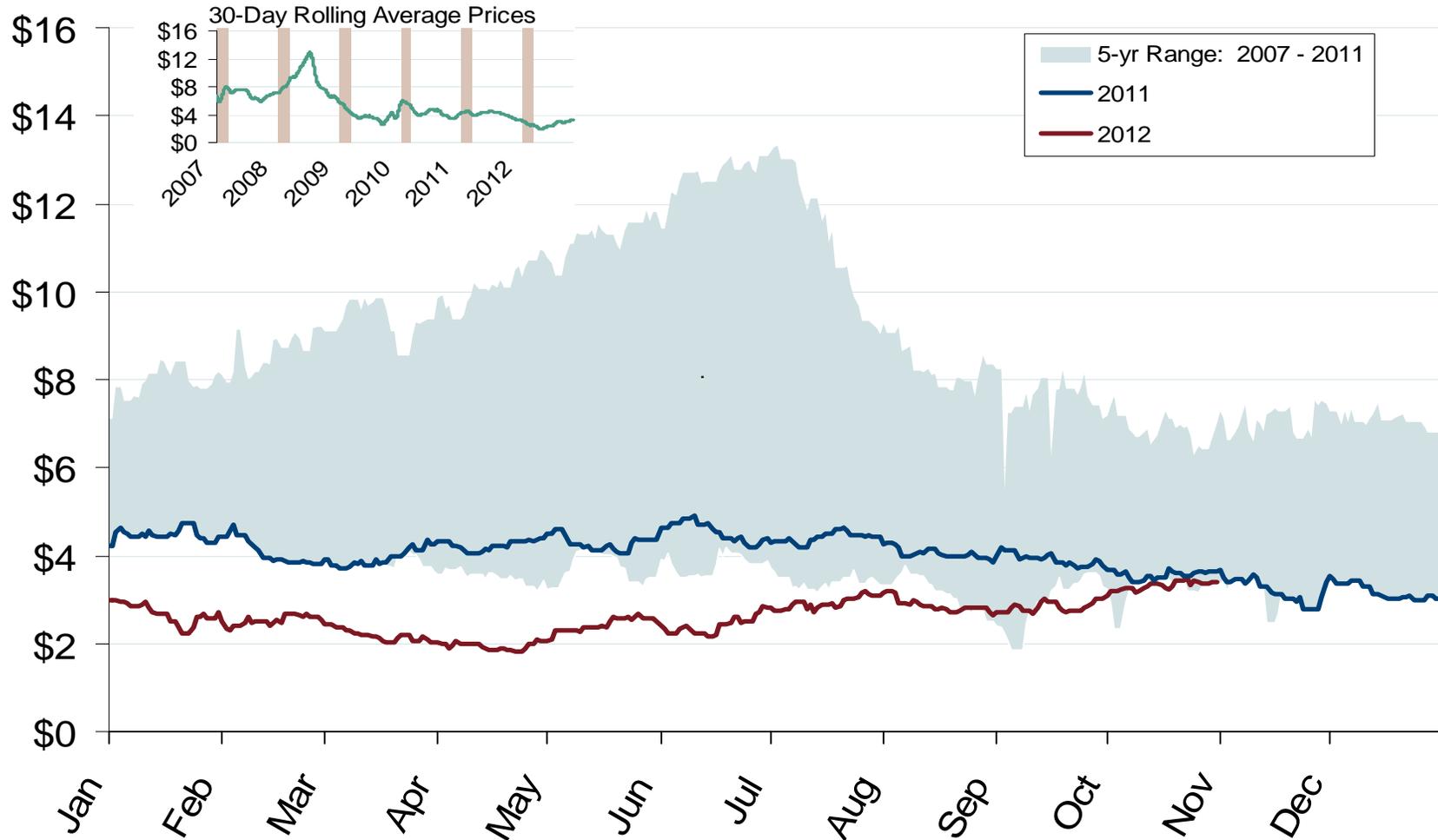
Updated: November 6, 2012



# Natural Gas and Fuels Markets

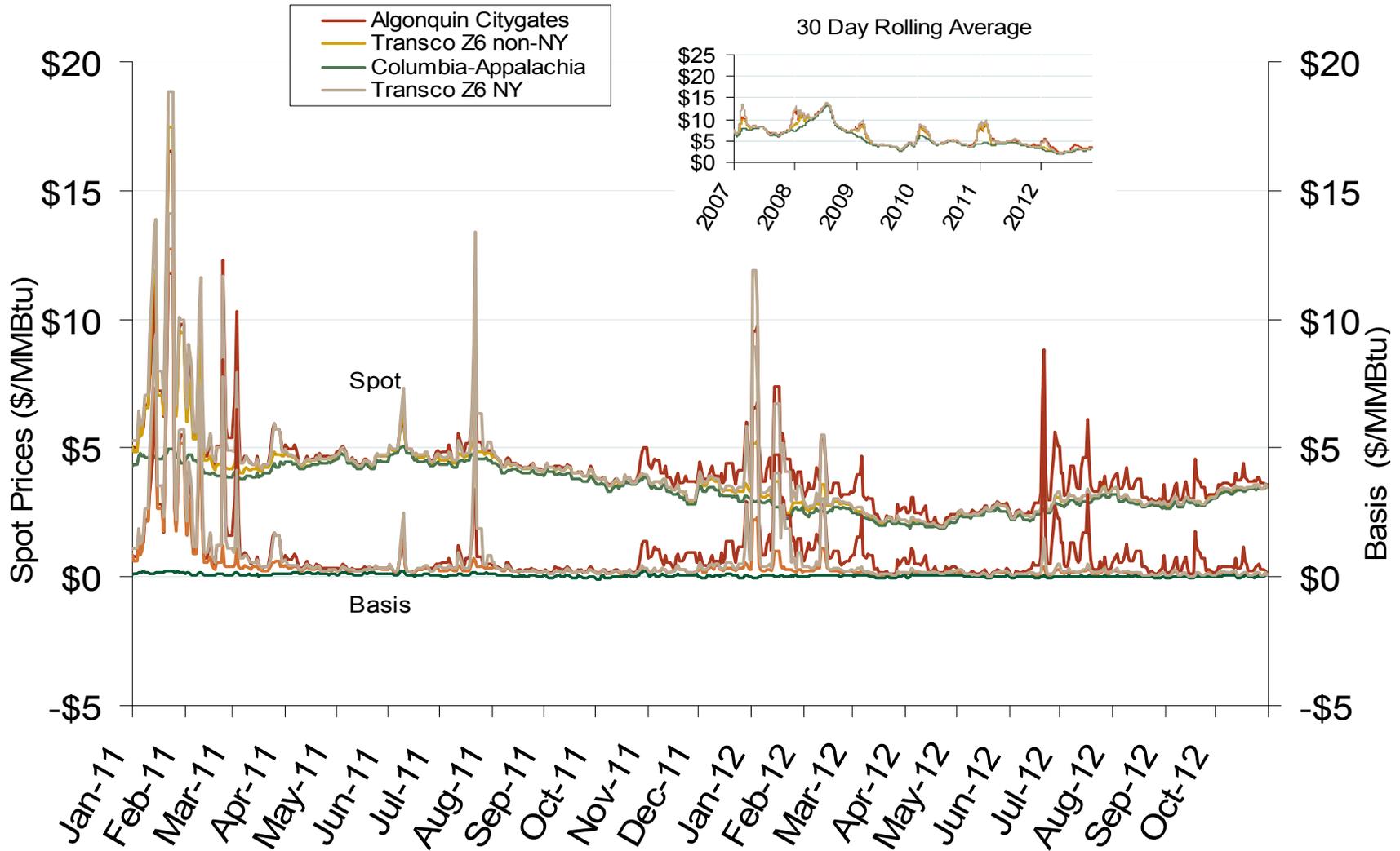
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## Henry Hub Natural Gas Daily Spot Prices



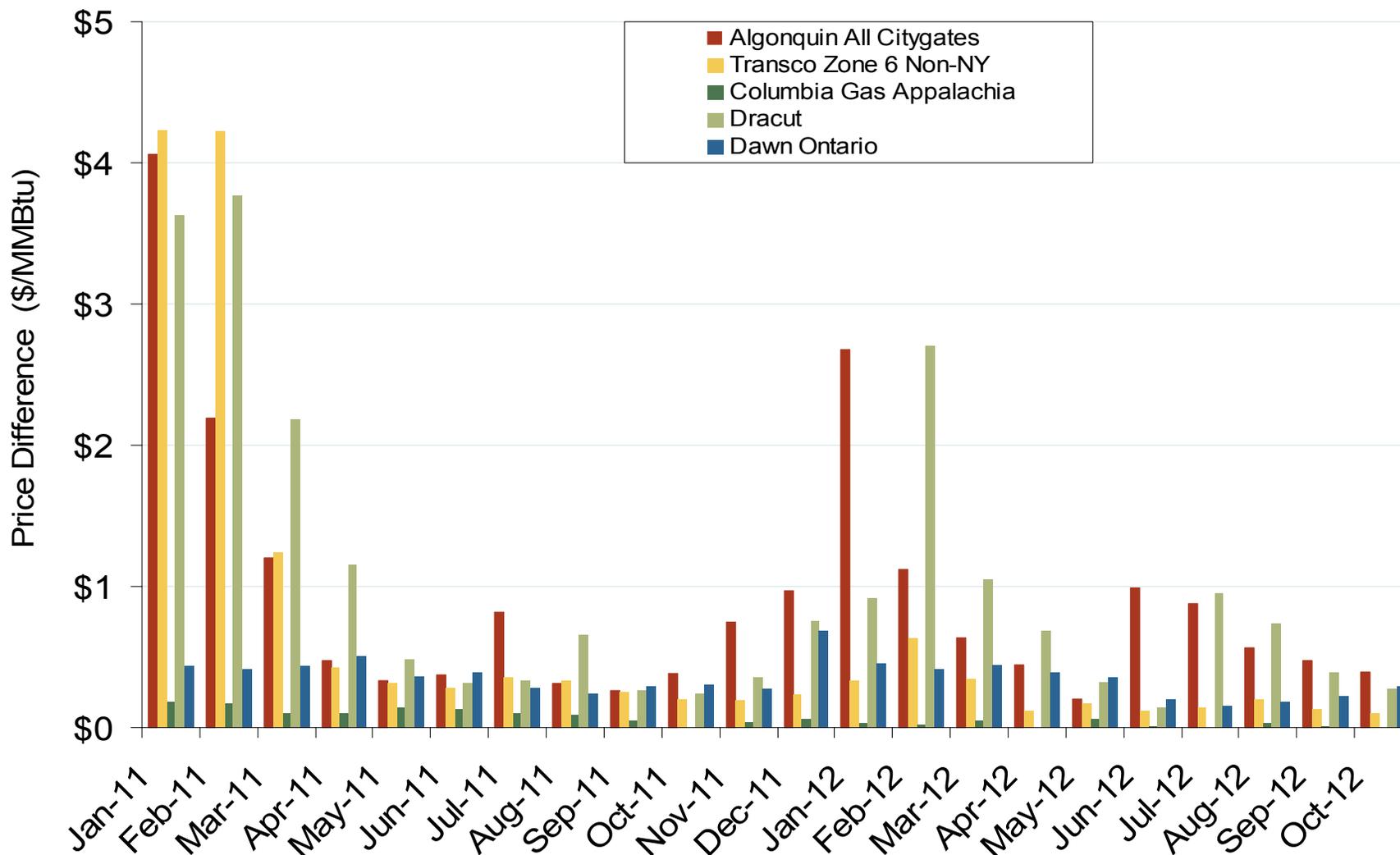
Source: Derived from *Platts* data

## Northeastern Spot Prices and Basis

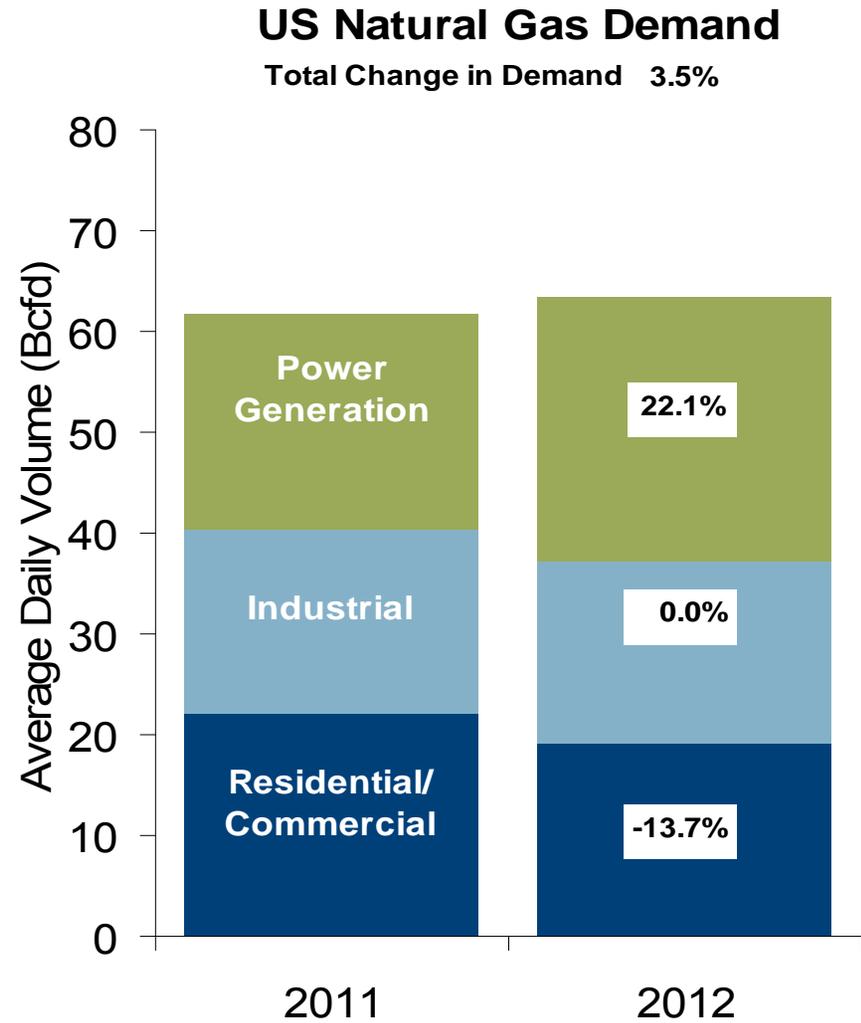
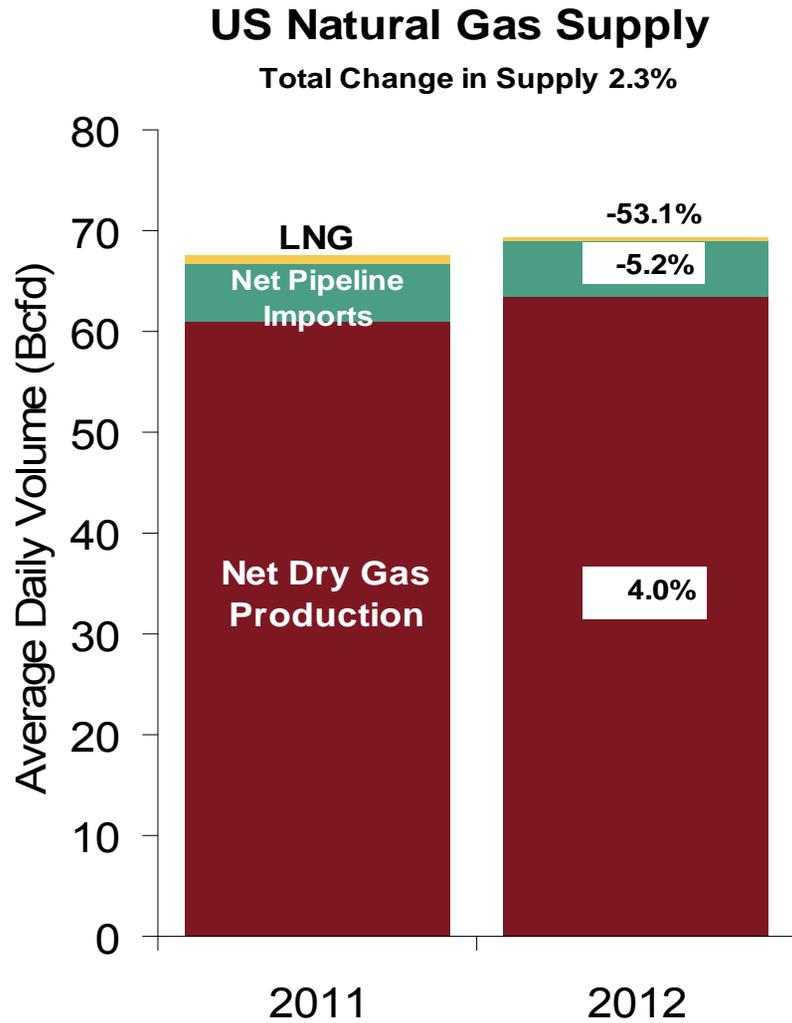


Source: Derived from Platts data

## Northeastern Monthly Average Basis Value to Henry Hub



## U.S. NG Supply and Demand 2011 vs. 2012: January - October



Note: Balance includes all amounts not attributable to other categories.

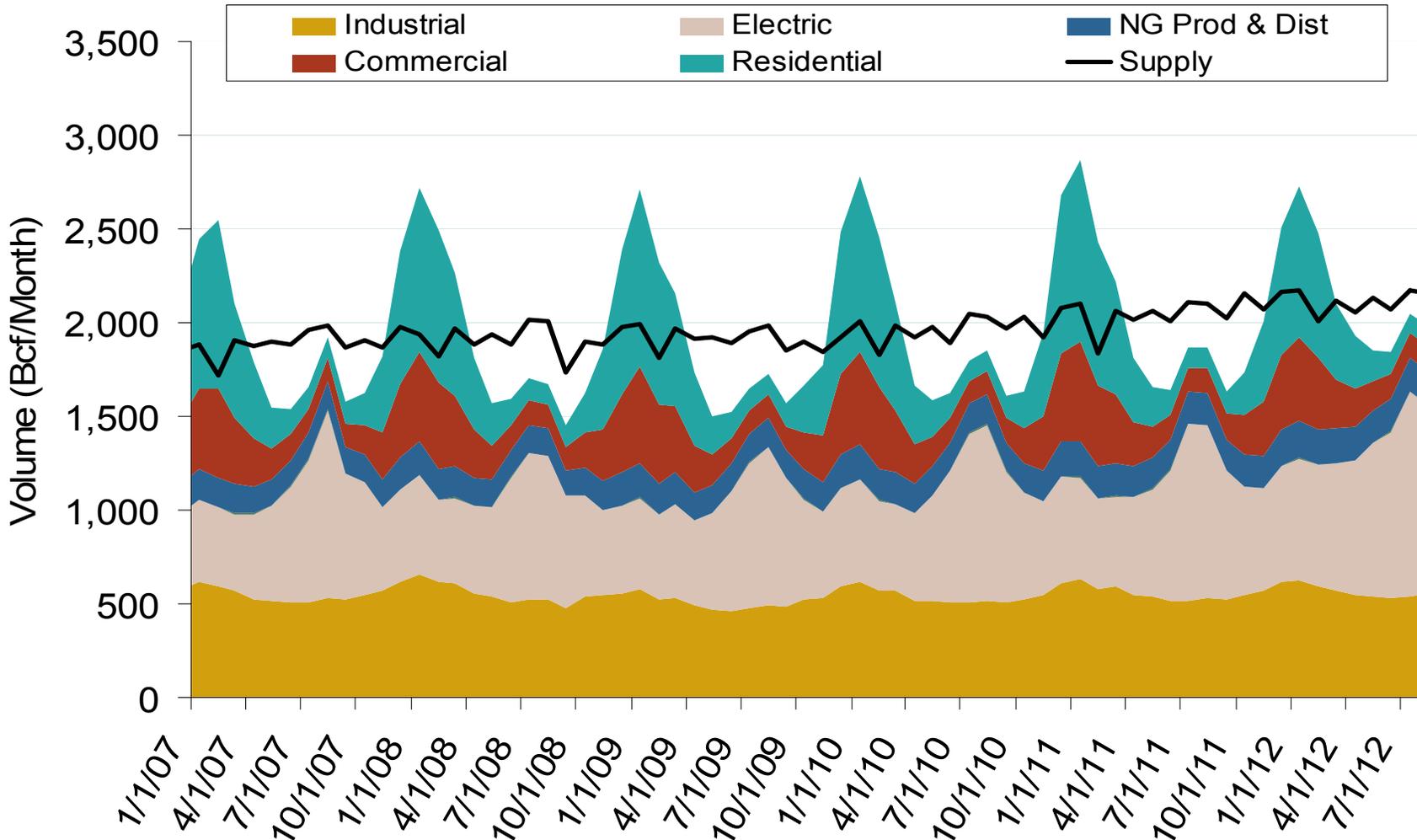
Source: Derived from *Bentek Energy* data

November 2012 Mid-Atlantic Snapshot Report

Updated: November 02, 2012

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## Annual U.S. Natural Gas Consumption by Sector



Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

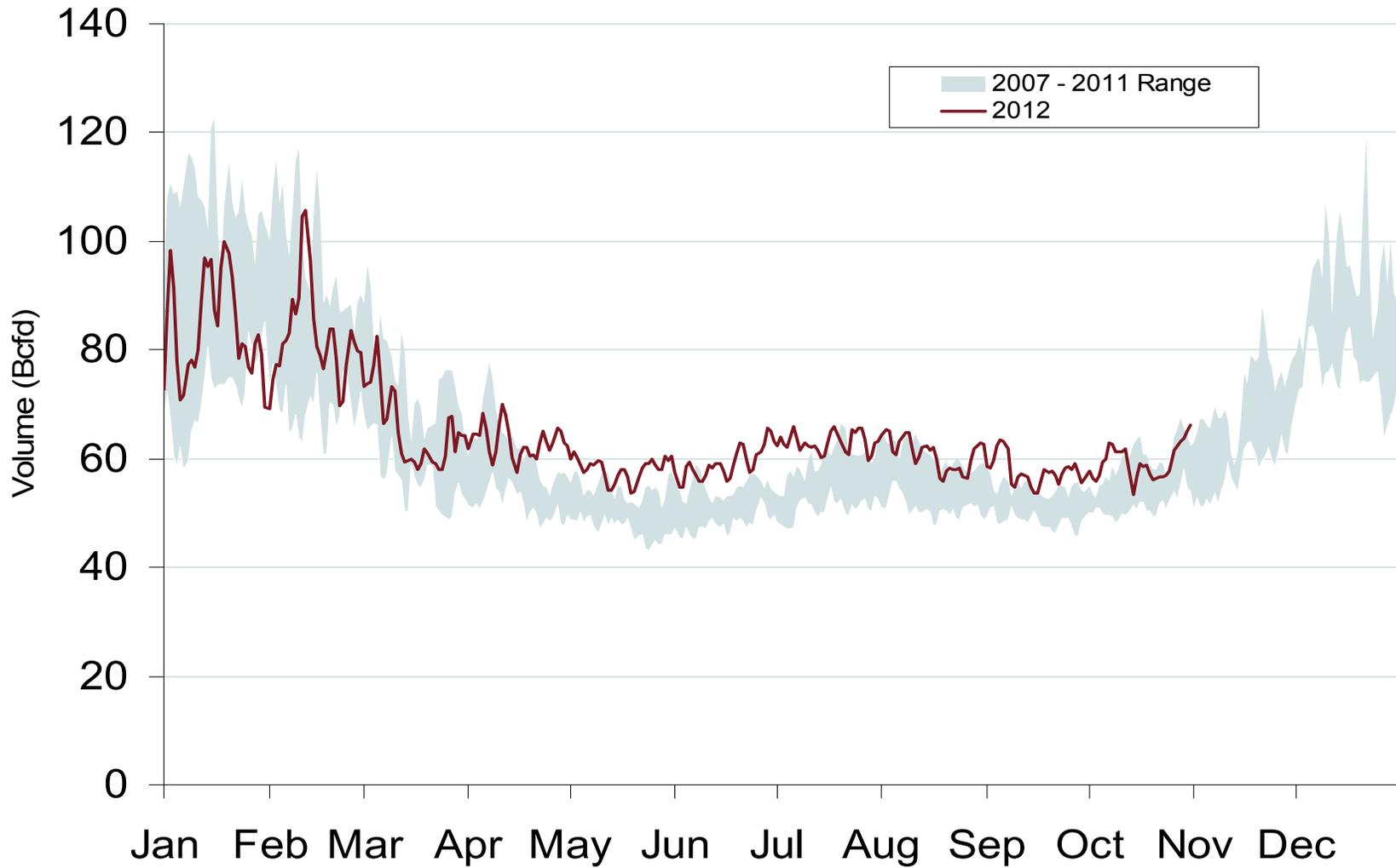
Source: Derived from EIA data

November 2012 Mid-Atlantic Snapshot Report

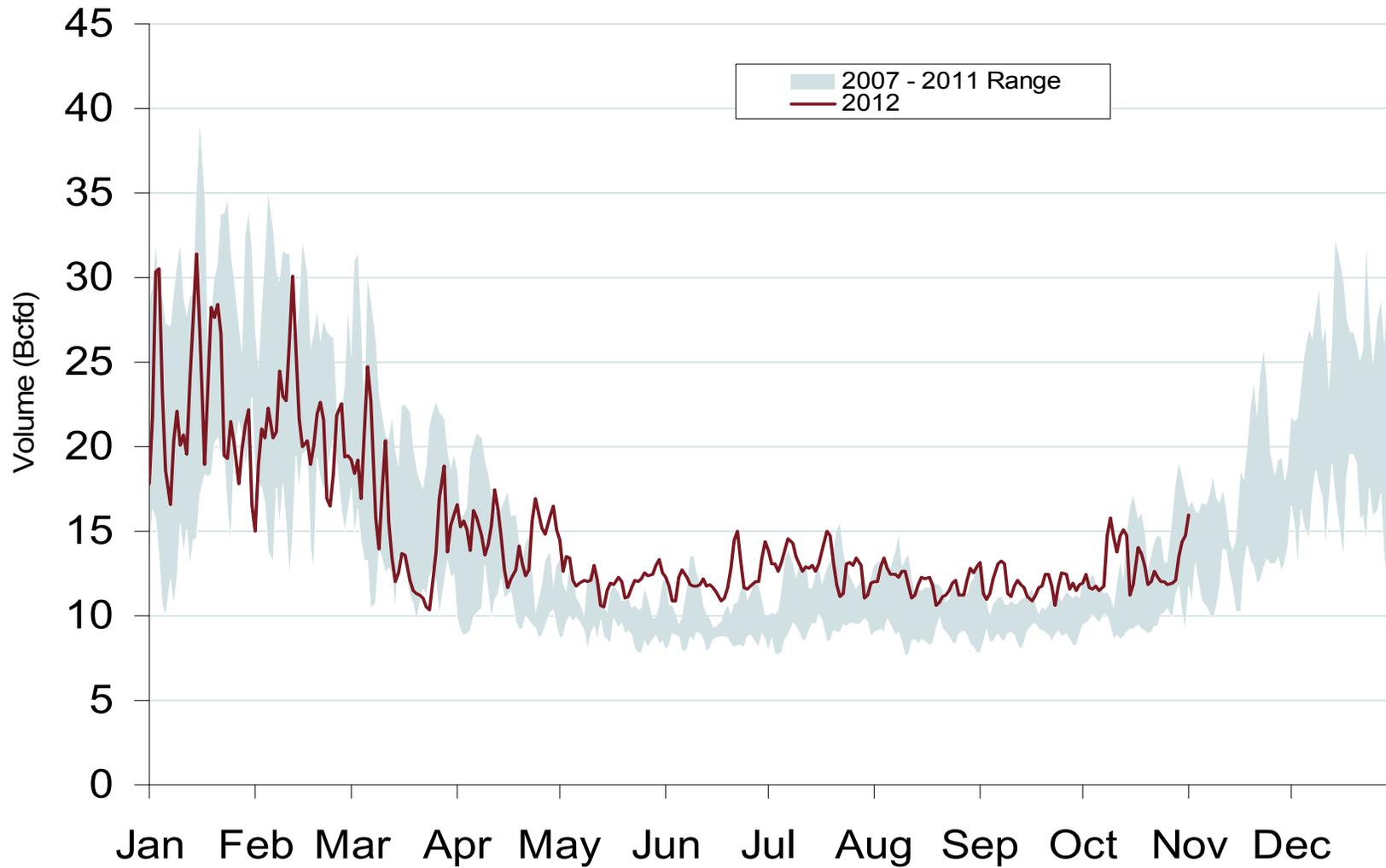
Updated: November 06, 2012

20013

## Total U.S. Natural Gas Demand All Sectors

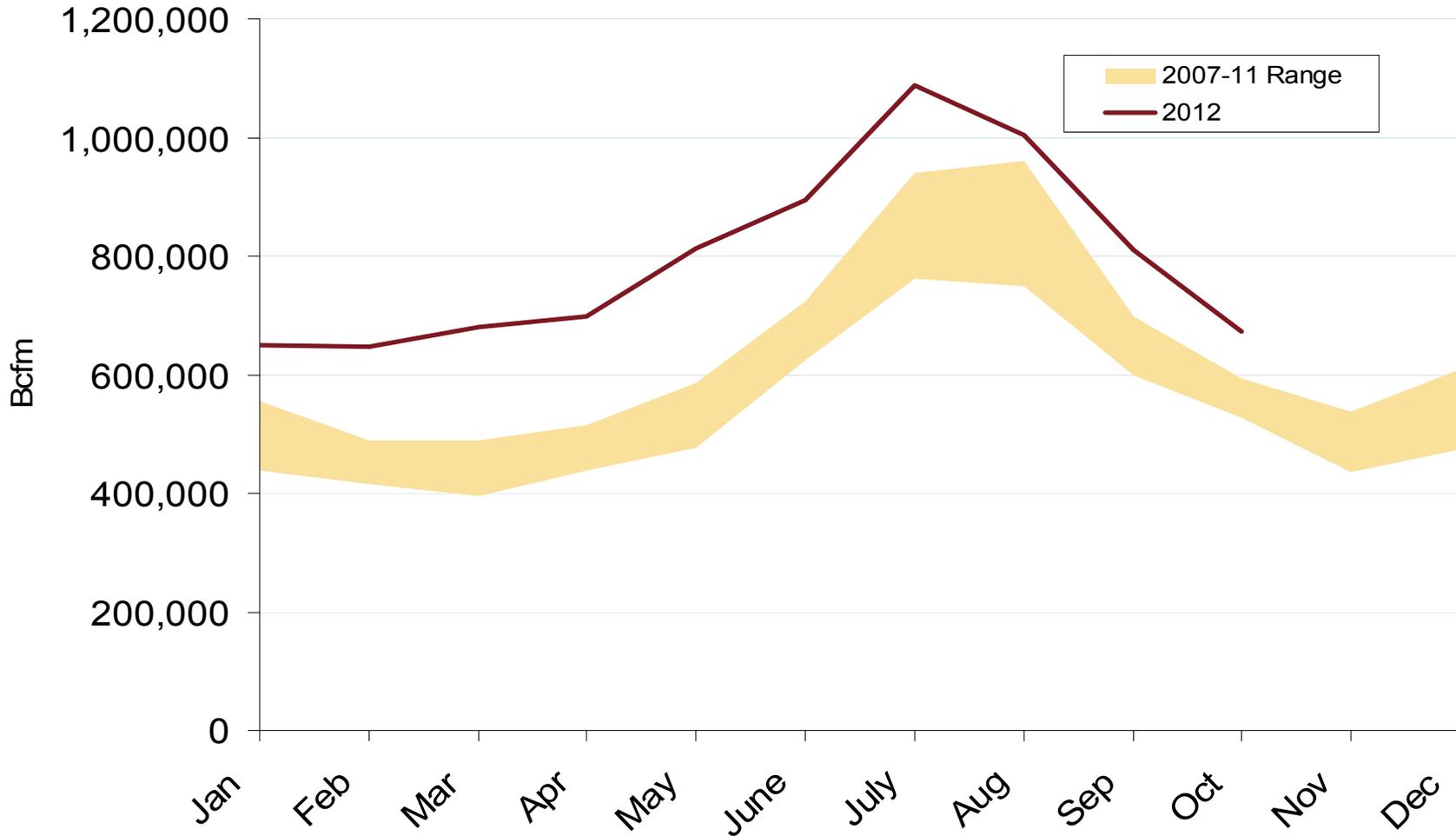


## Daily Northeast Natural Gas Demand All Sectors



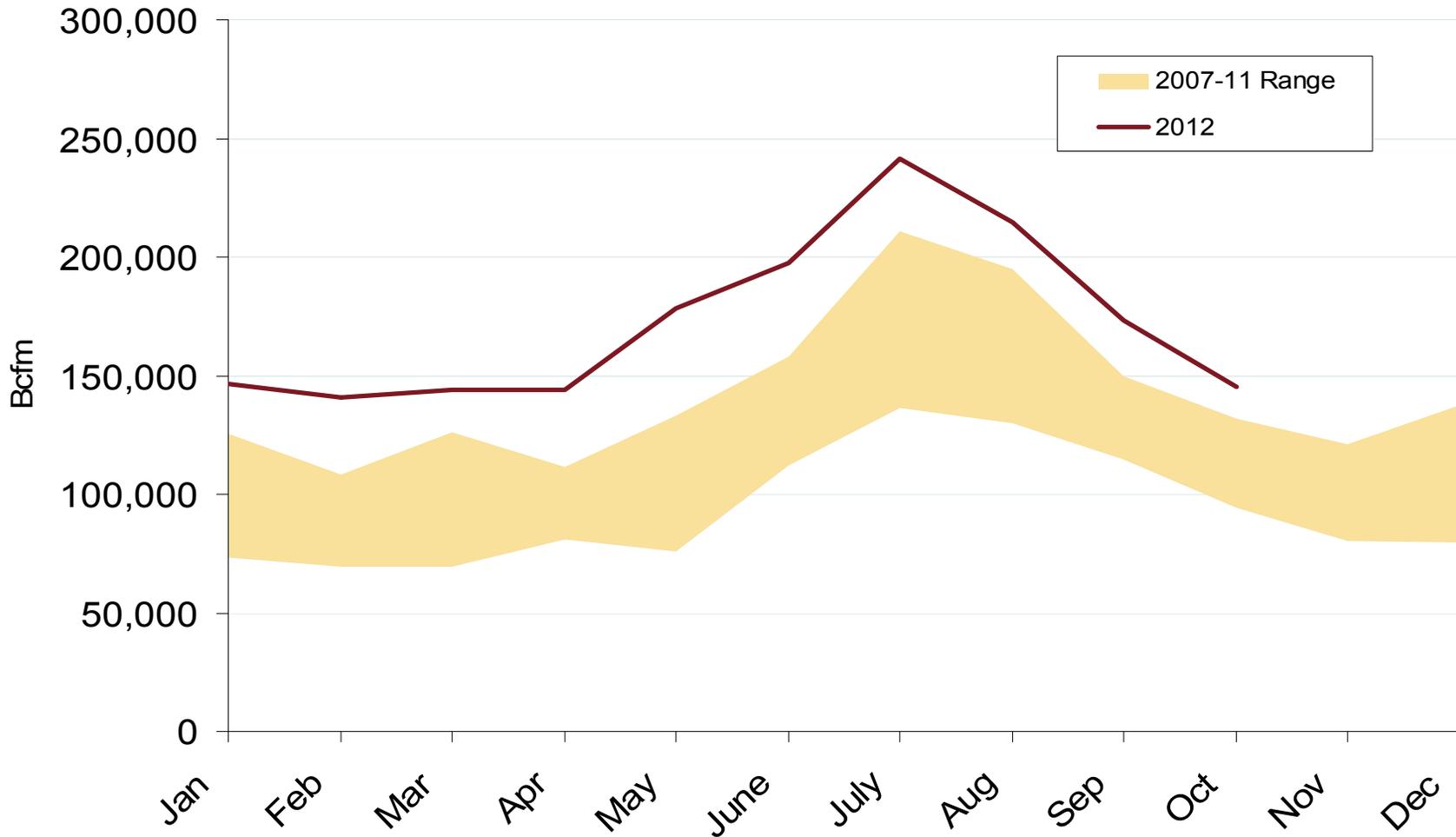
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## U.S. Natural Gas Consumption for Power Generation



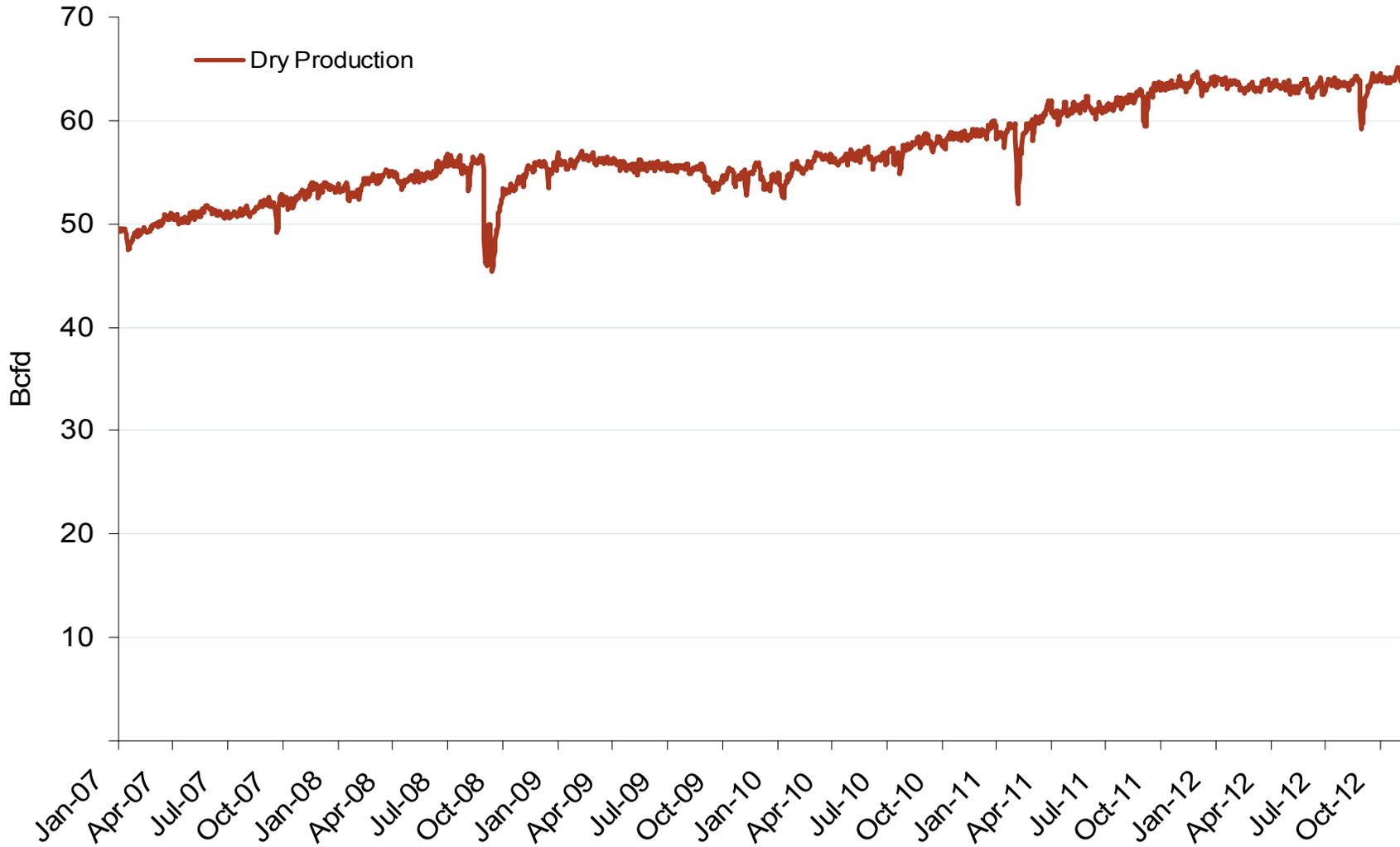
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## Northeast Natural Gas Consumption for Power Generation



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## Monthly U.S. Dry Gas Production – Lower 48 States



Note: Prior to July 2010, chart was derived from a combination of EIA and Bentek Energy data

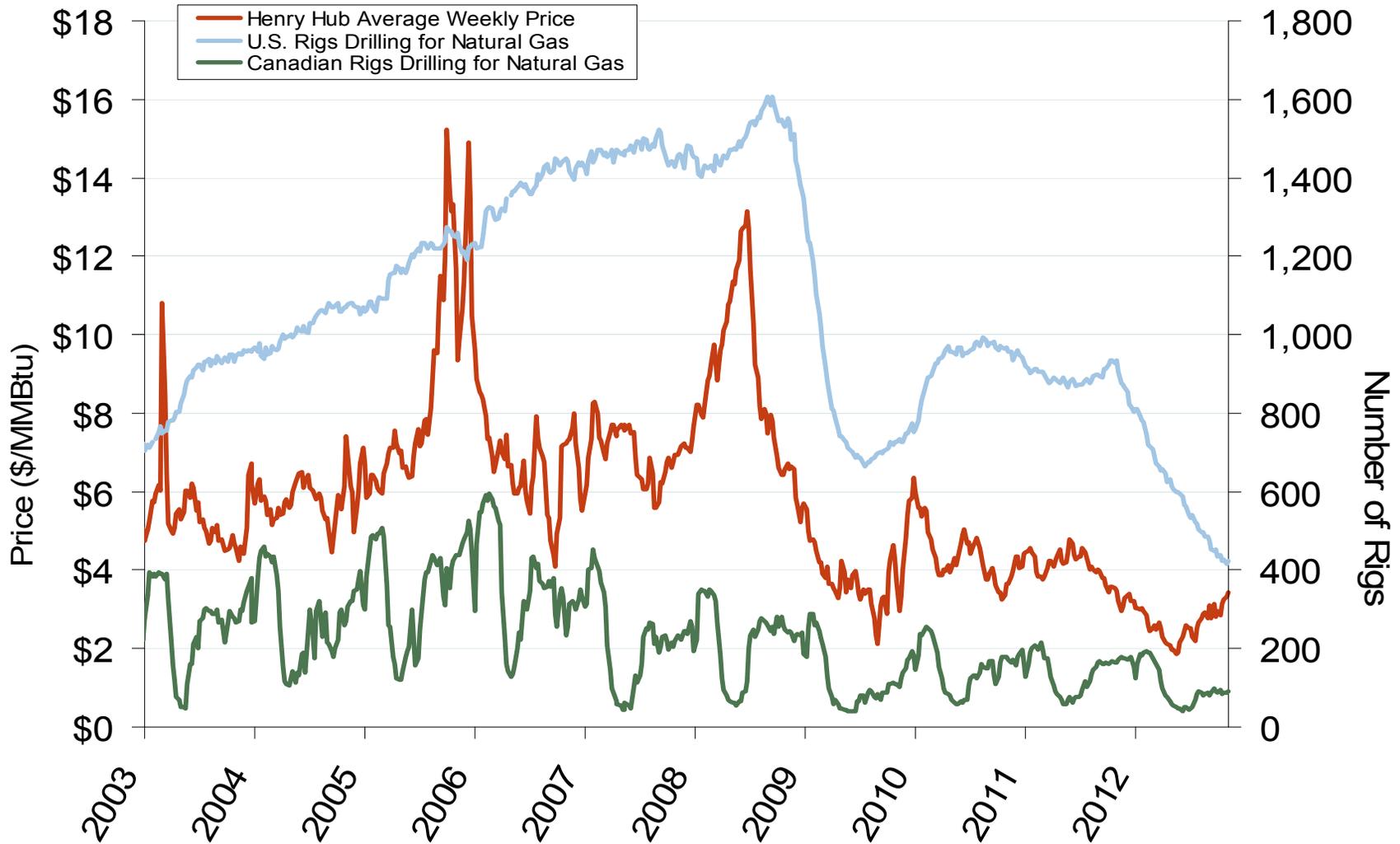
Source: Derived from Bentek Energy data

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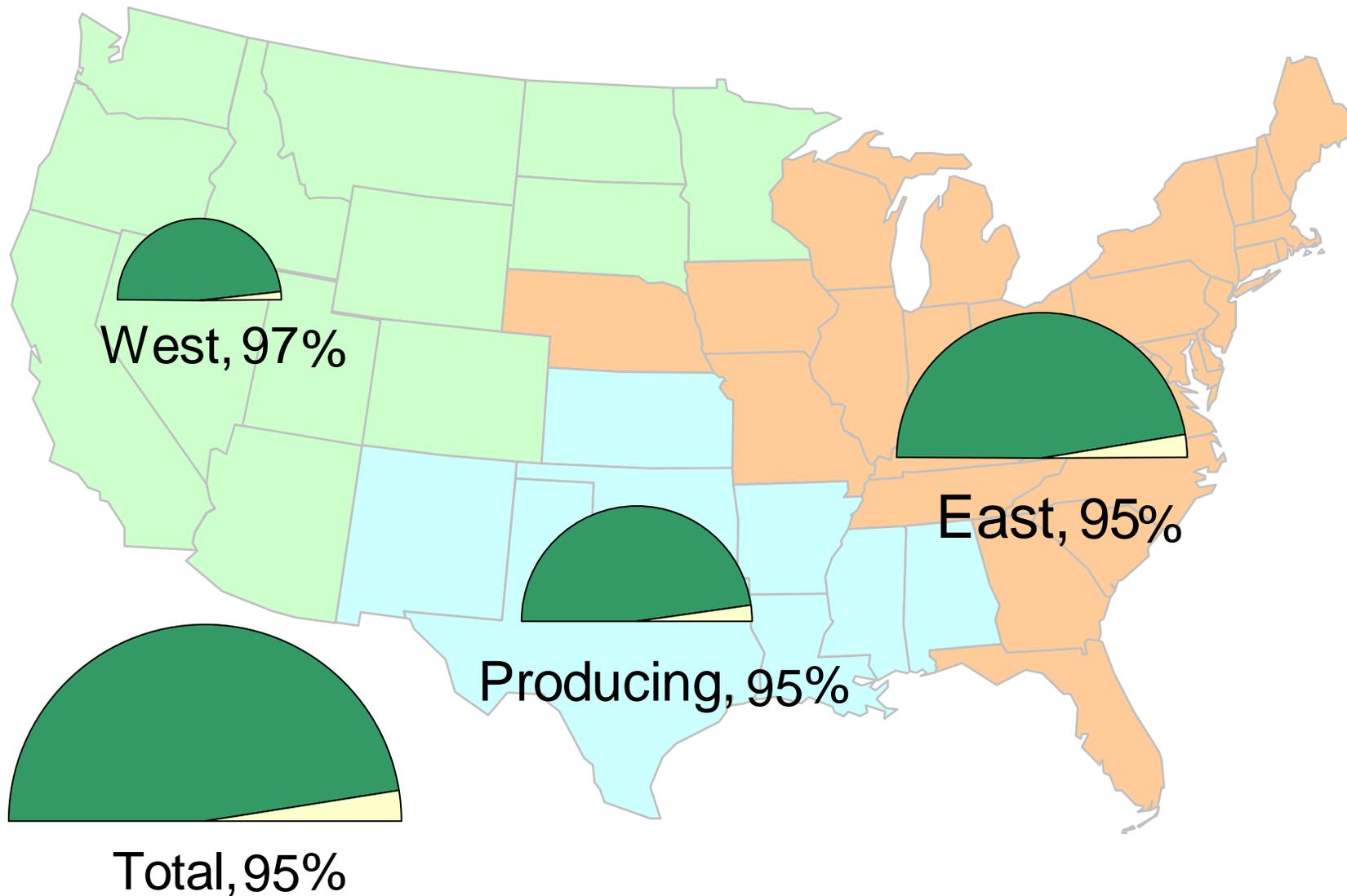
Updated: November 02, 2012

20021

## U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



## Natural Gas Storage Inventories – November 2, 2012

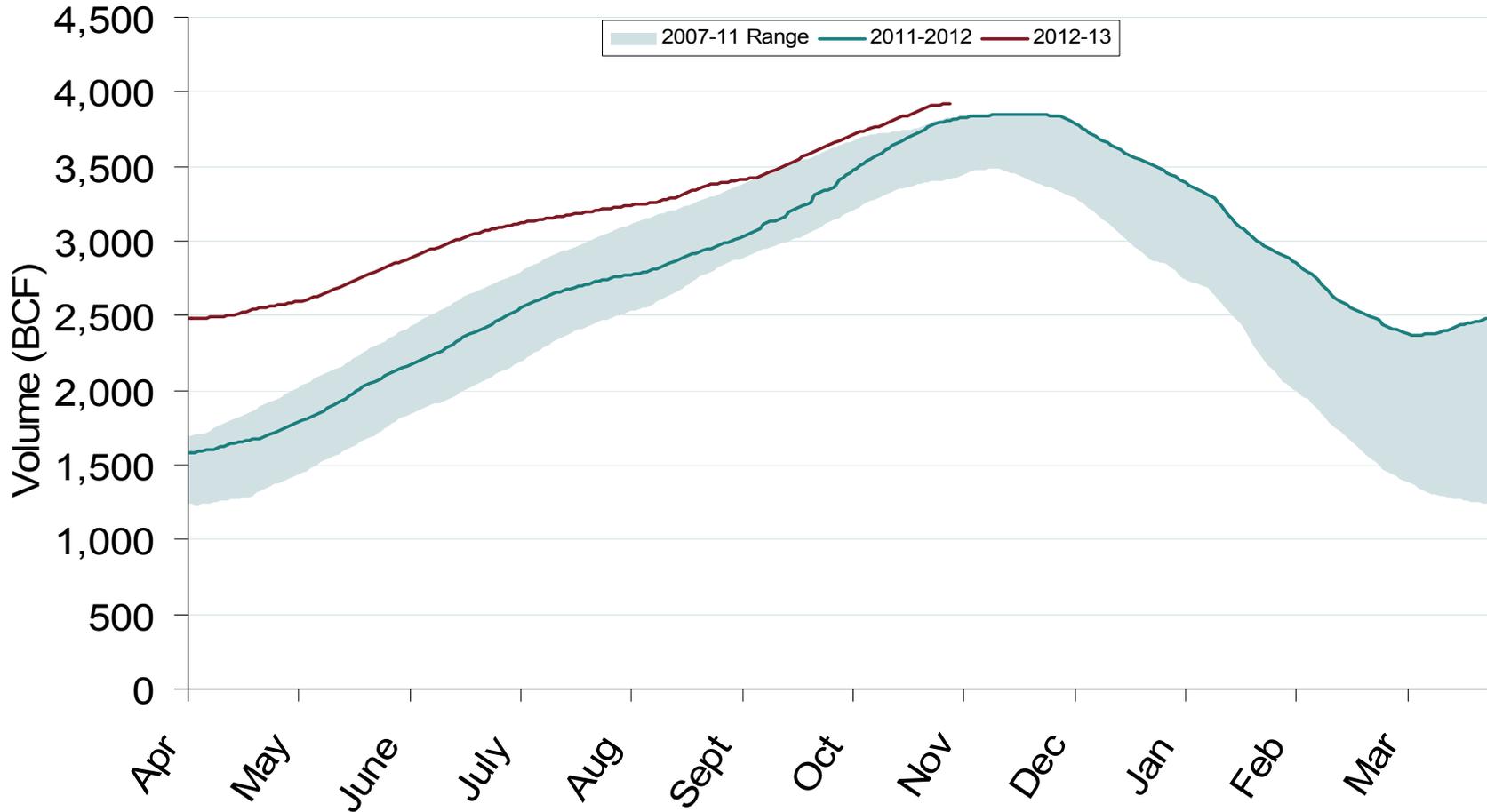


Source: Derived from *EIA Storage* and *Estimated Working Gas Capacity* data

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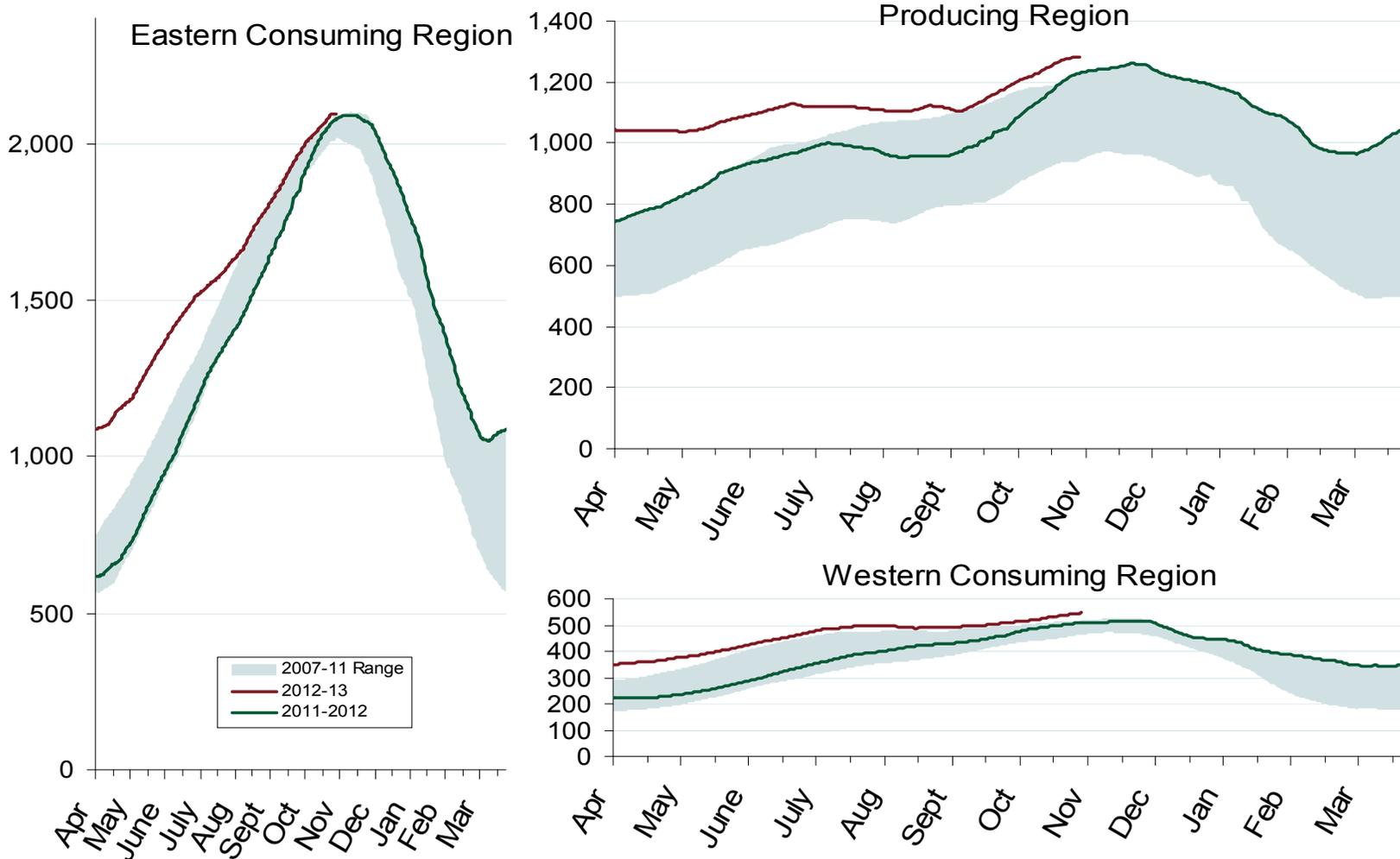
Updated: November 6, 2012<sup>20022</sup>

## Total U.S. Working Gas in Storage



Source: Derived from EIA data

## Regional Totals of Working Gas in Storage



Source: Derived from EIA data

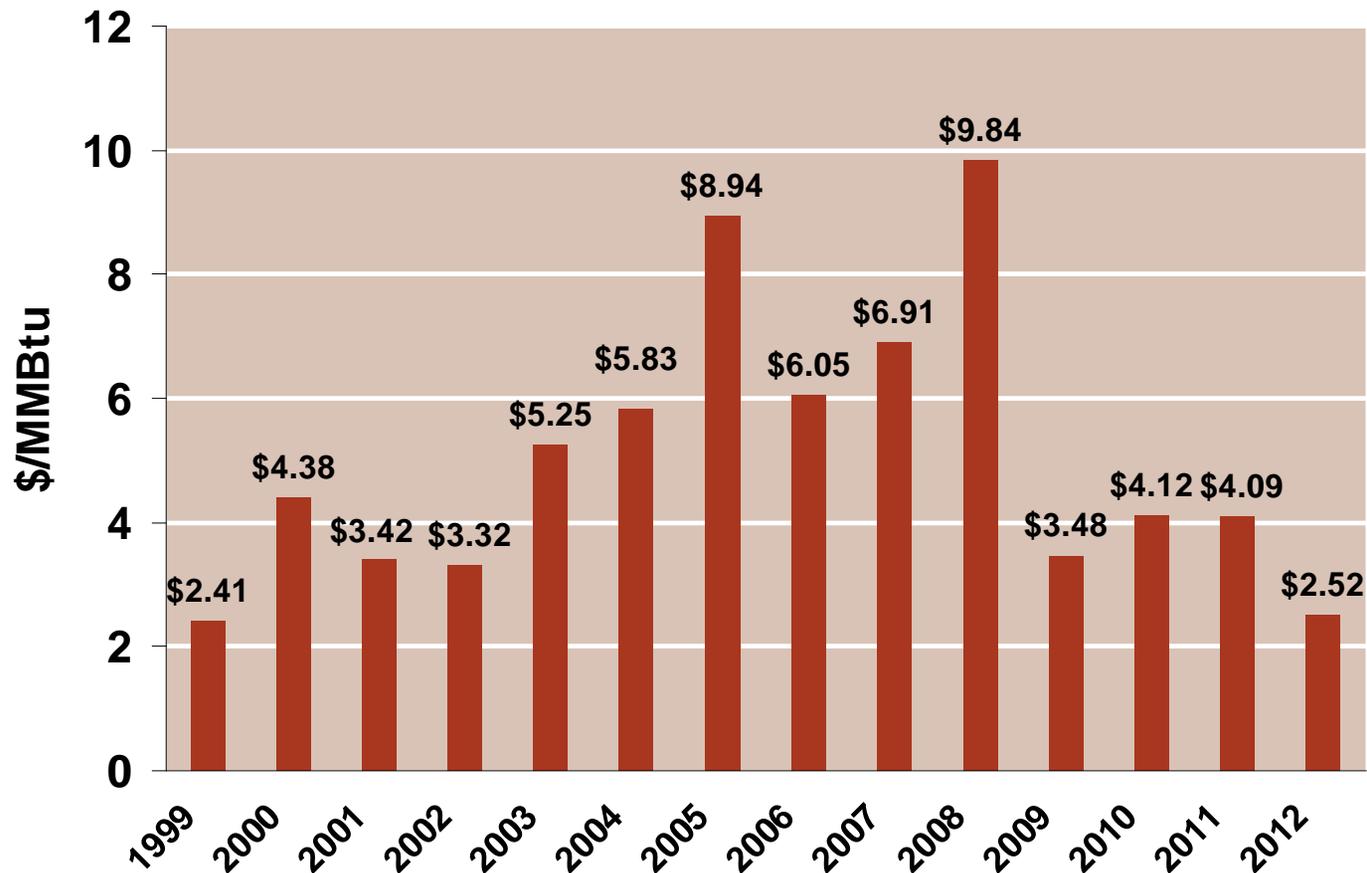
## Prices of Crude Oil and Natural Gas Incent Oil Producers to Increase Rail Shipments to East Coast Refineries While Gas Pipelines Eye Conversion



Source: Derived from Bloomberg data

Updated October 2012

## Average Cost of Injecting Gas into Storage Nears a 13-year Low



Source: Derived from Platts Gas Daily weekly weighted average prices, NGI's Daily Gas Price Index, and EIA Weekly Natural Gas Storage Report

November 2012 Mid-Atlantic Snapshot Report

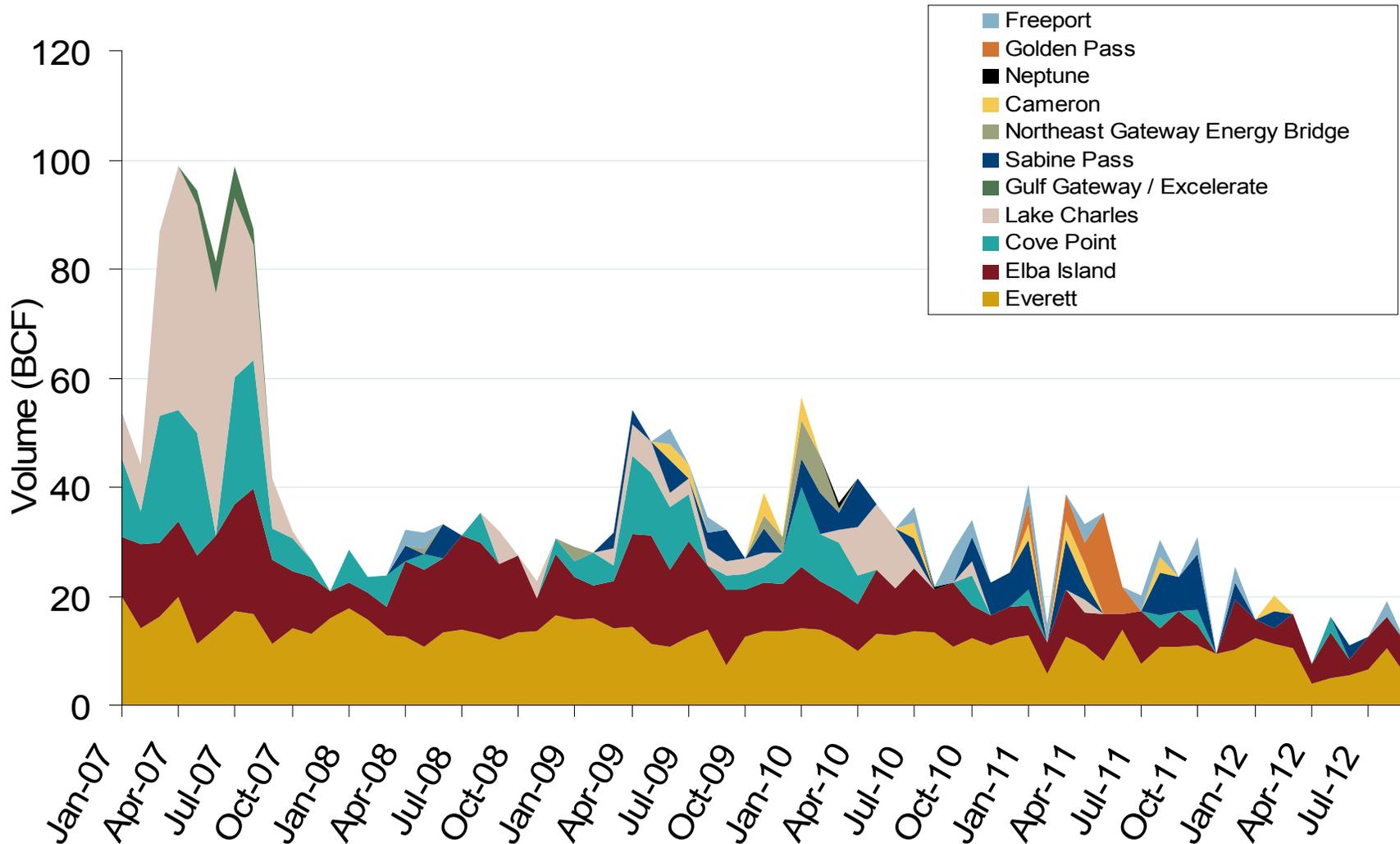
Updated October 2012

## World LNG Estimated December 2012 Landed Prices



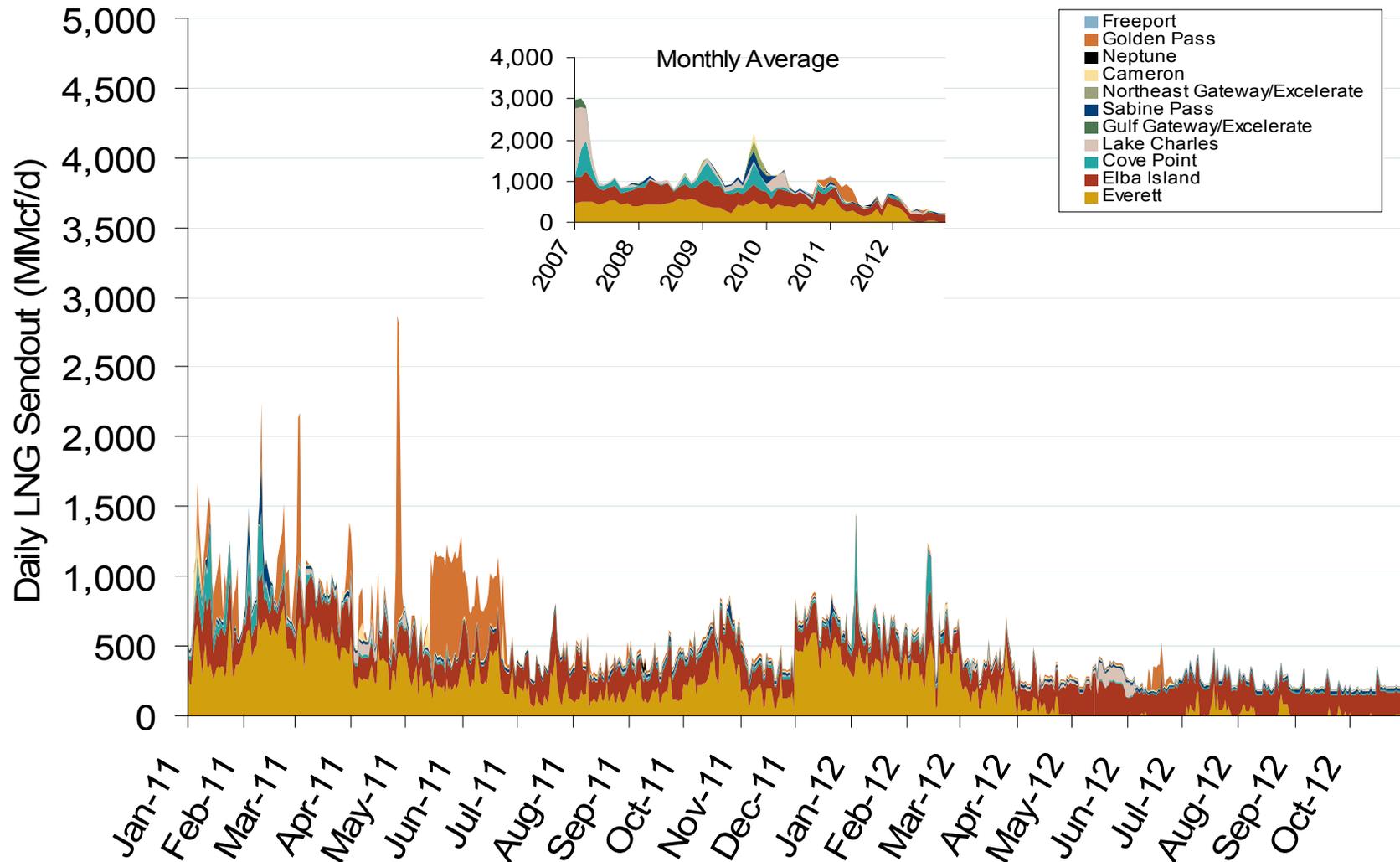
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## Monthly Gas Imports at Existing U.S. LNG Facilities



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## Daily Gas Sendout from Existing U.S. LNG Facilities

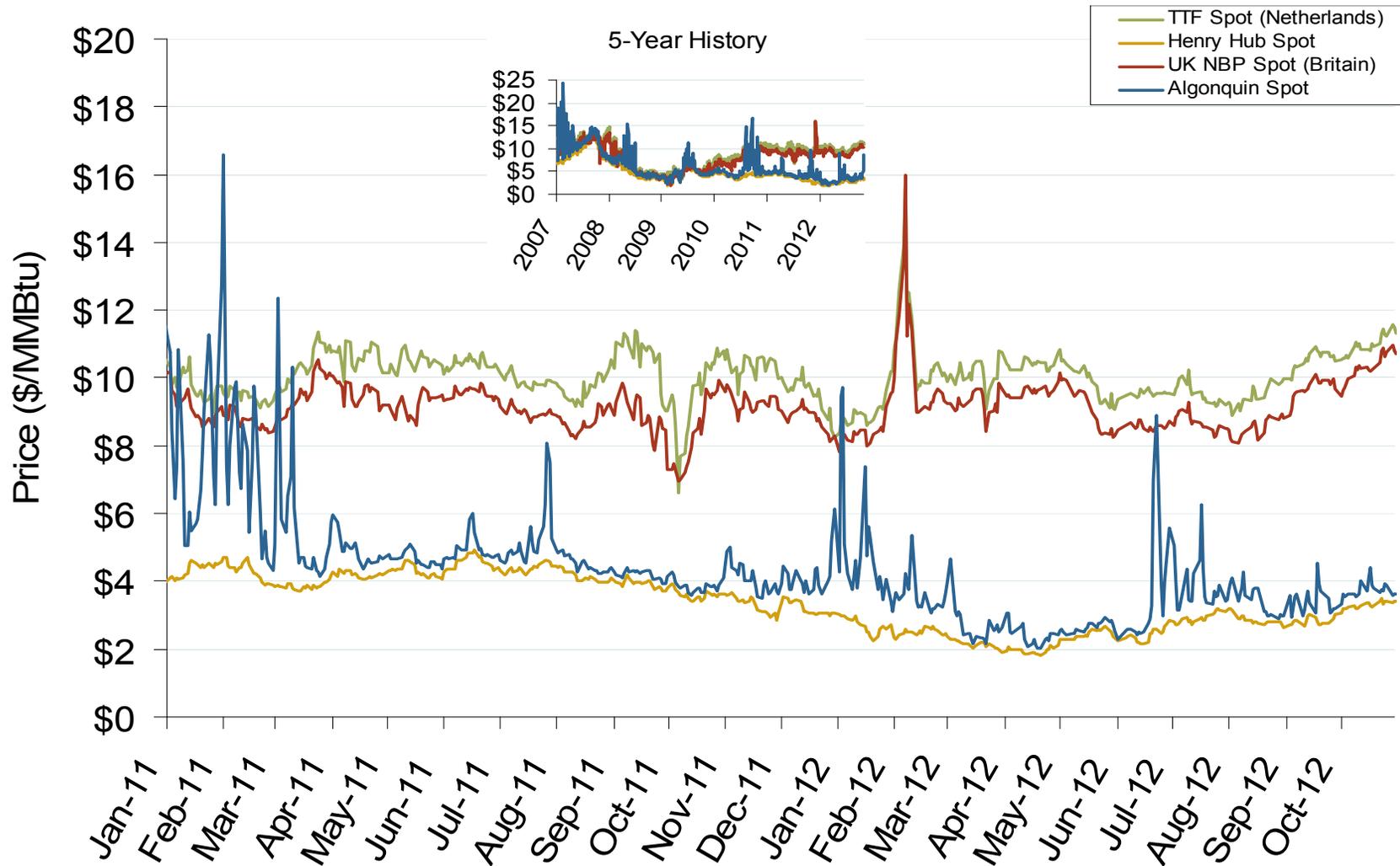


Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes flows to the Freeport LNG which flows via intrastate pipelines and flows to the Mystic 8 and 9 power plants.

Source: Derived from *Bentek Energy* data

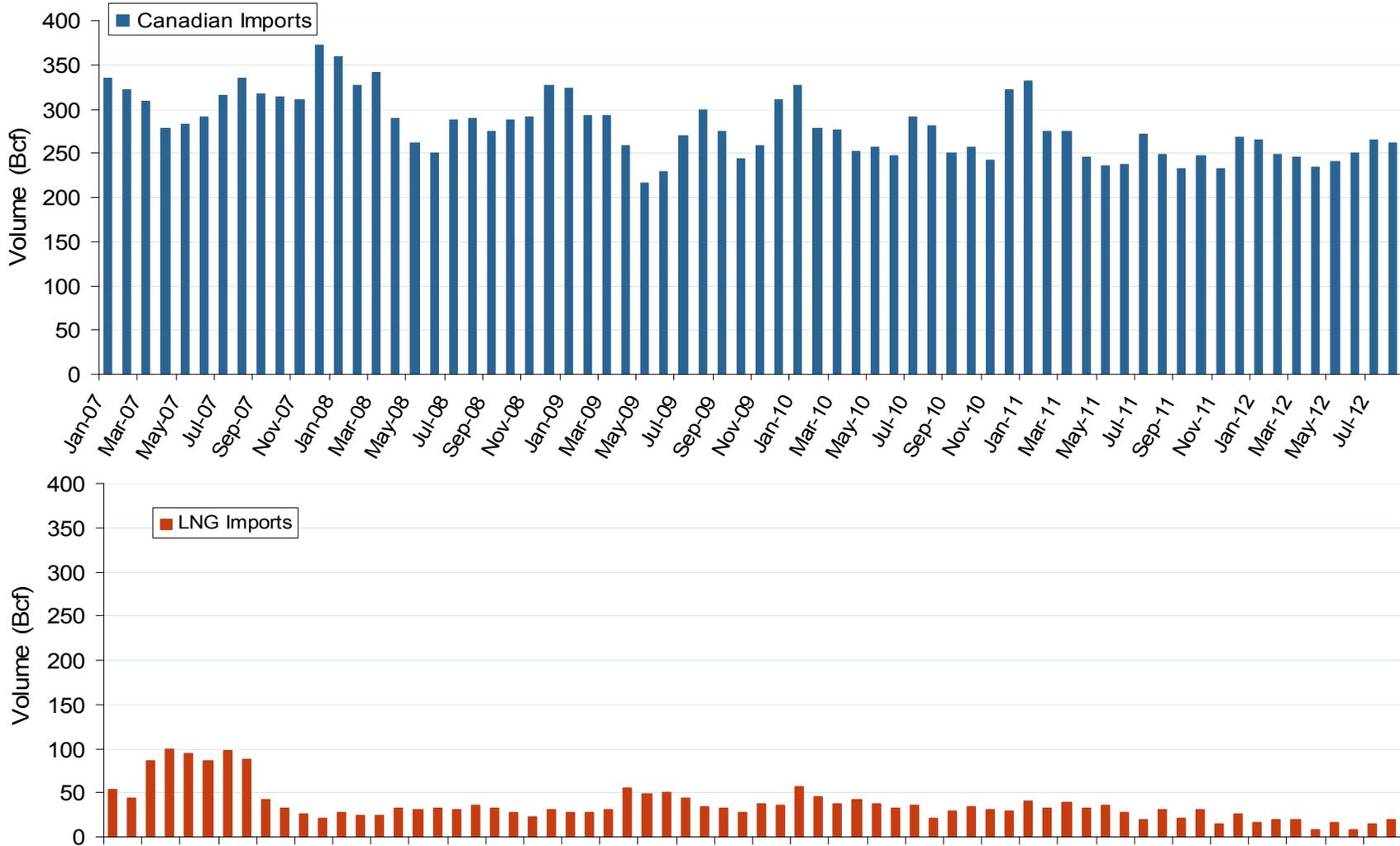
Updated: November 02, 2012

## Atlantic Basin European and US Spot Natural Gas Prices



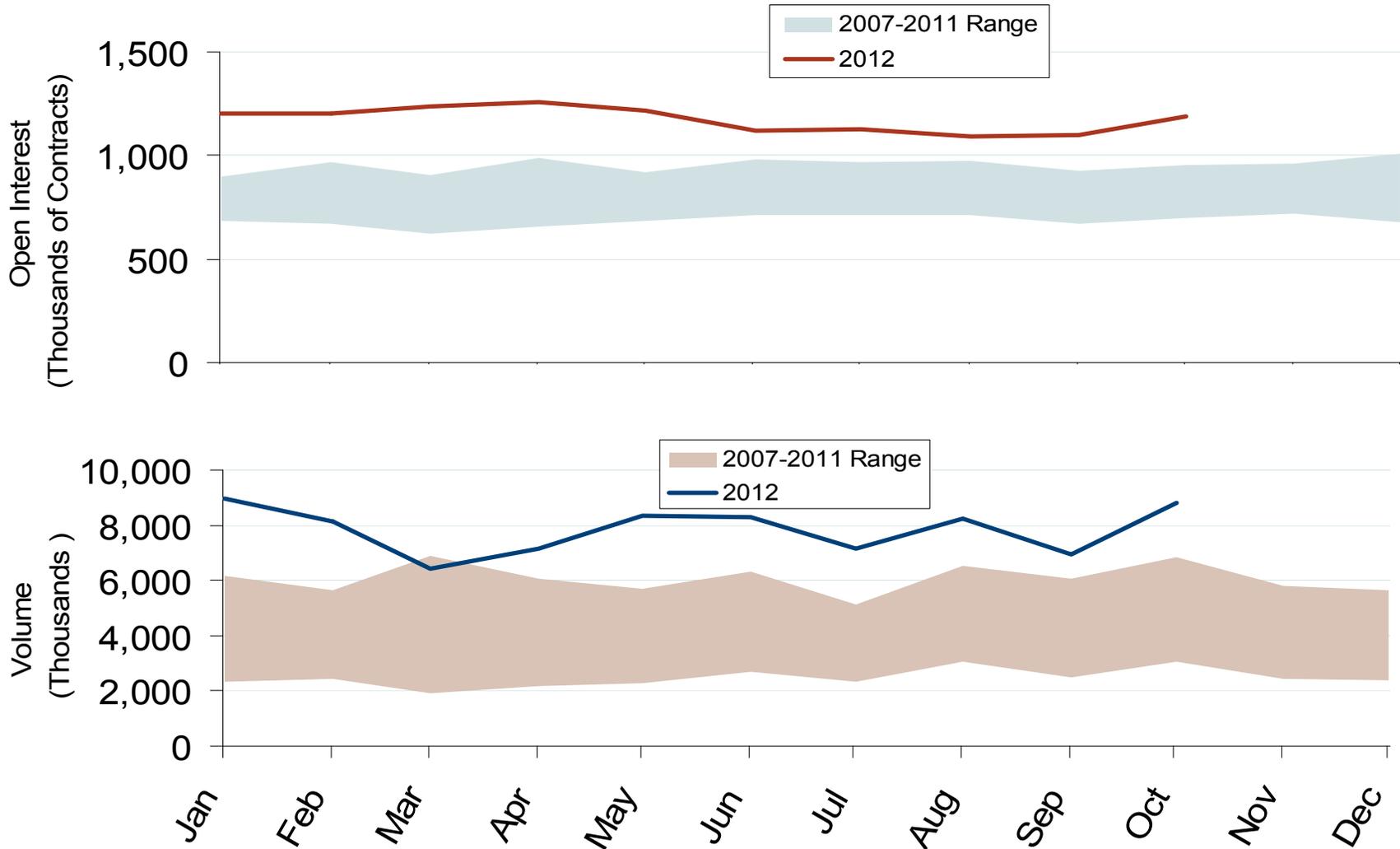
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## Canadian and LNG Natural Gas Imports Into the U.S.



Source: EIA Natural Gas Monthly

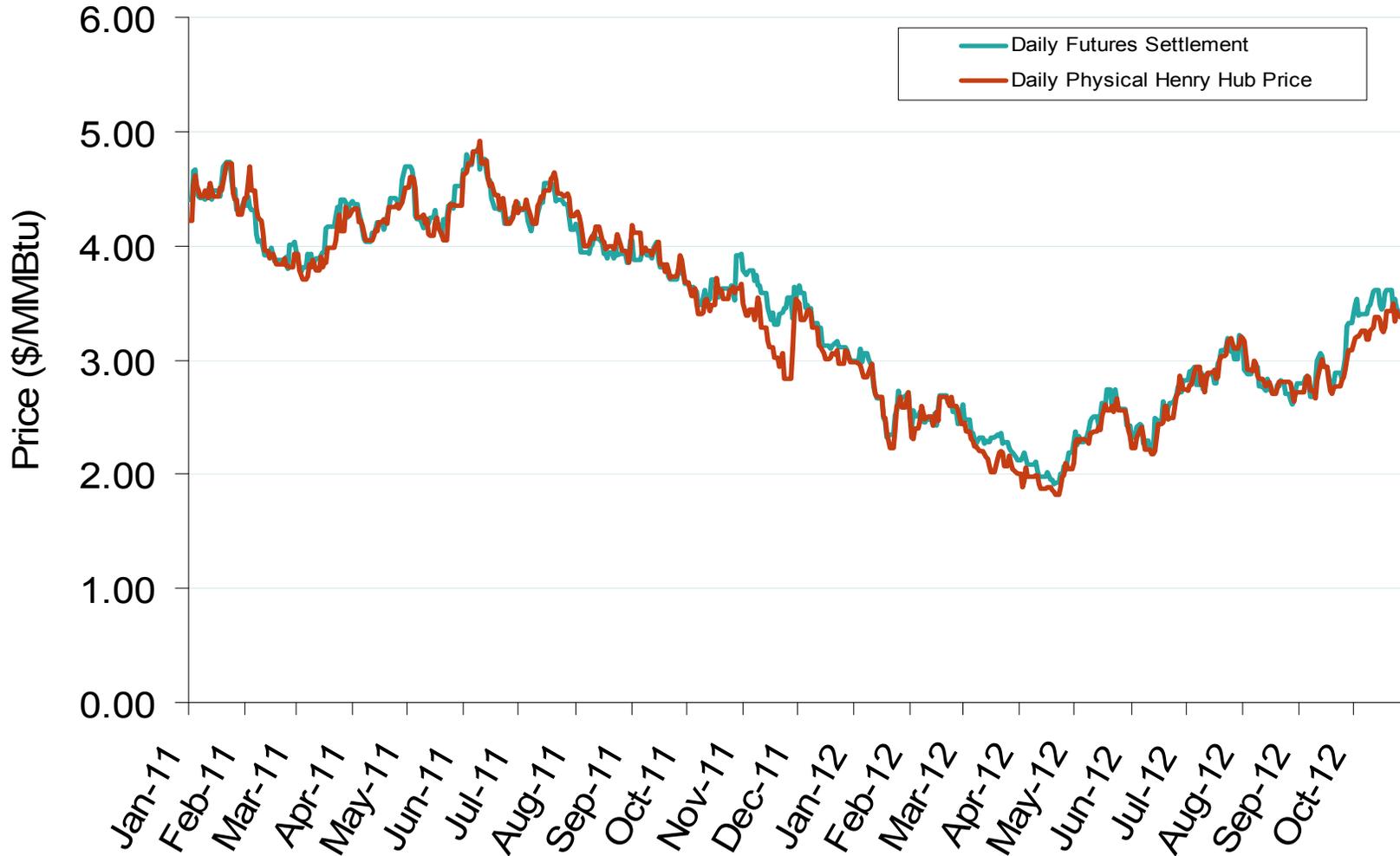
## Nymex NG Futures Month-End Open Interest and Monthly Volume



Source: Derived from Nymex data

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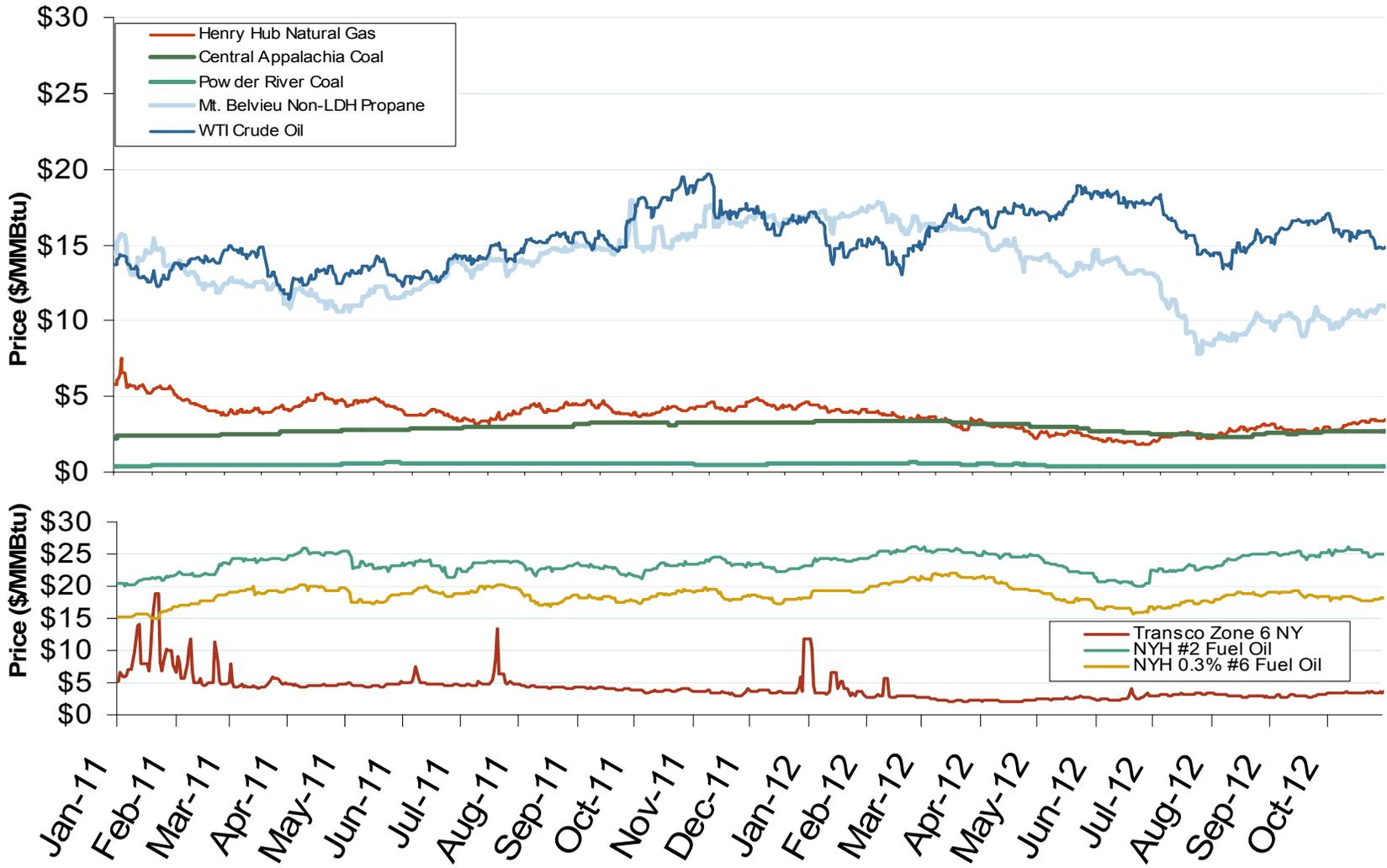
## Daily Physical Index Price & Daily Futures Settlement Price



Source: Derived from *Bloomberg* data

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## Oil, Coal, Natural Gas and Propane Daily Spot Prices



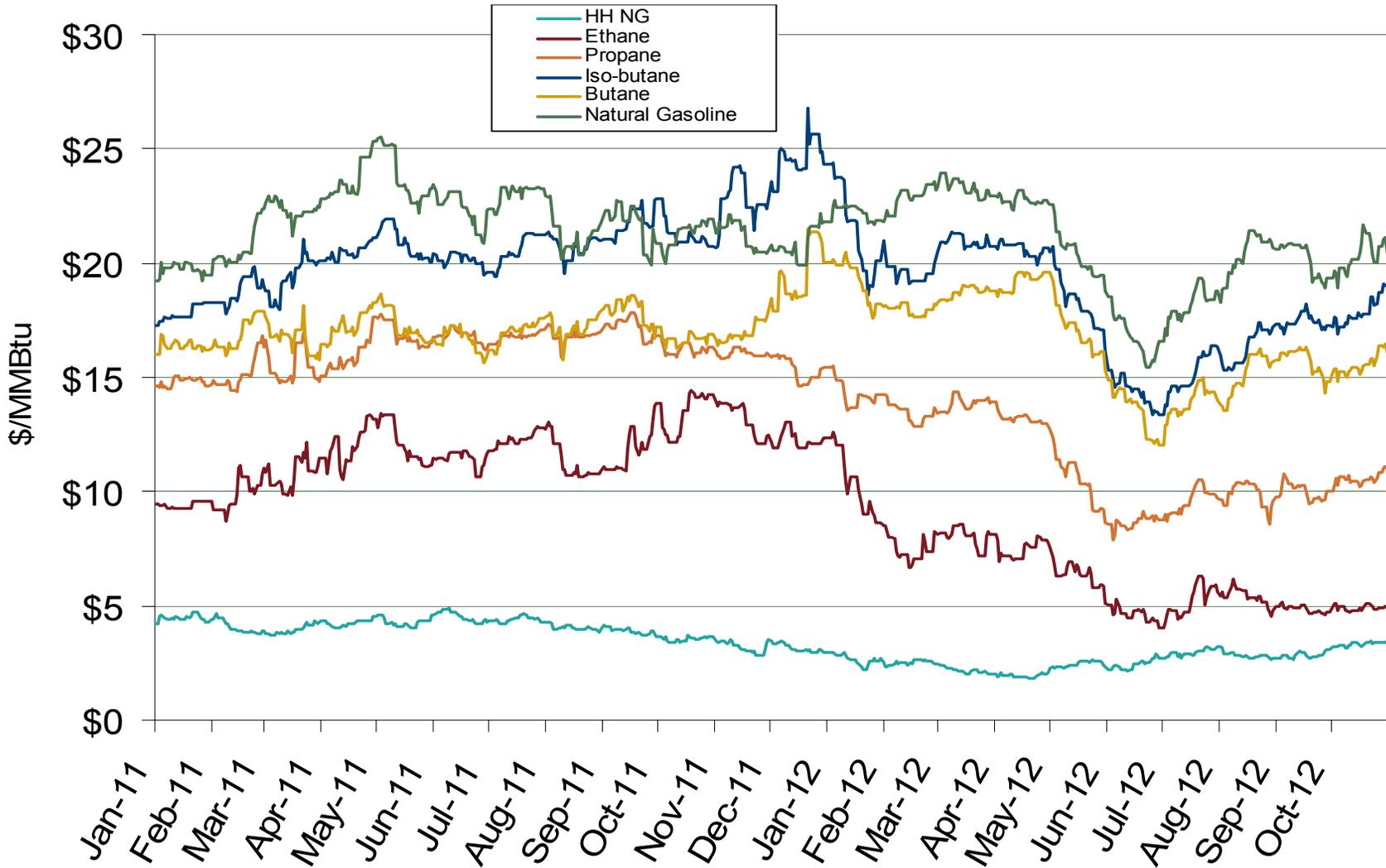
Notes: Coal prices are quoted in \$/ton. Conversion factors to \$/MMBtu are based on contract specifications of 12,000 btus/pound for Central Appalachian coal and 8800 btus/pound for Powder River Basin coal

Source: Derived from ICE and Bloomberg data

Updated: November 09, 2012

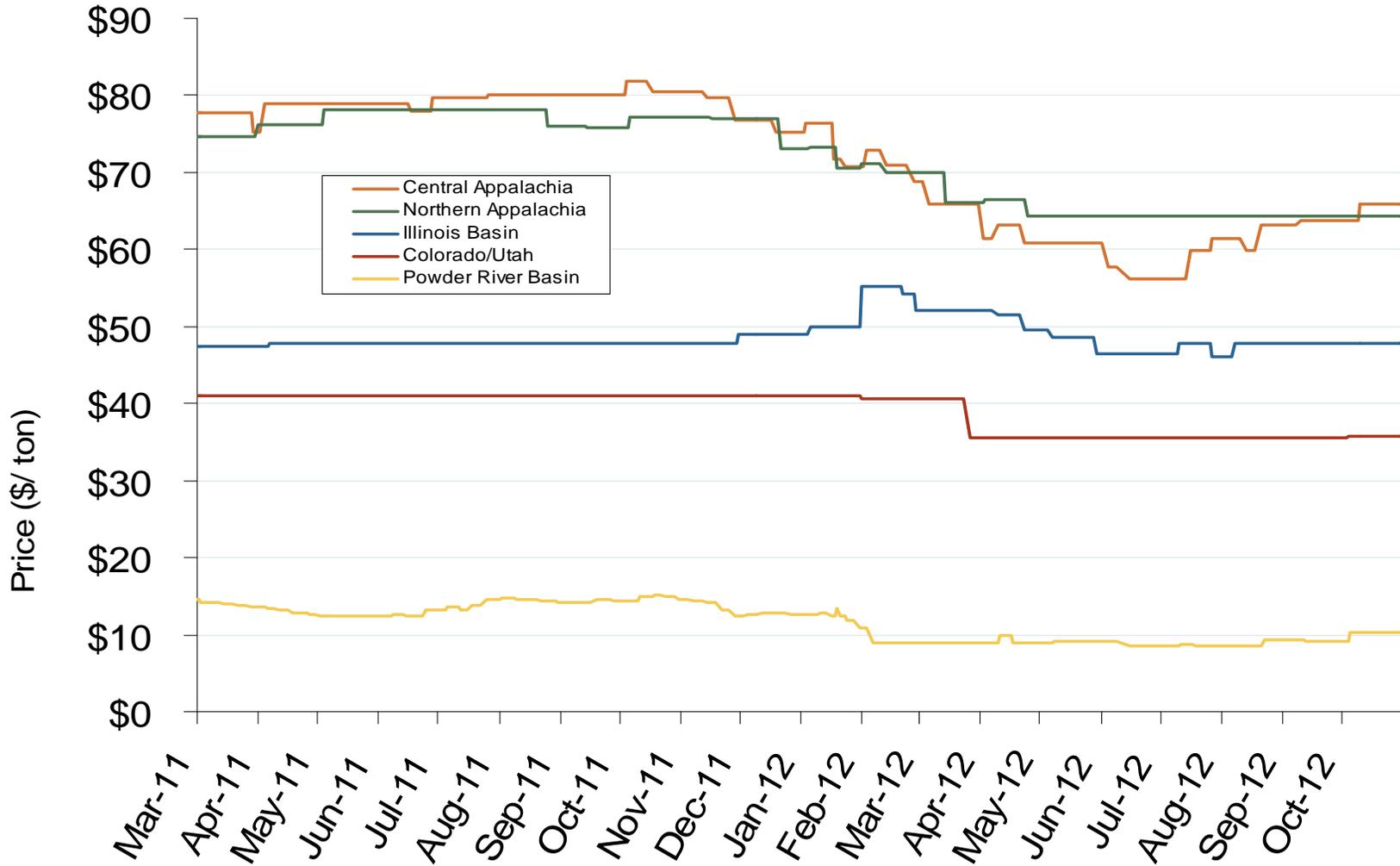
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## U.S. Natural Gas vs. Natural Gas Liquids (NGL) Prices



Source: Derived from Bloomberg Data

## Central Appalachian and Powder River Basin Coal Prices



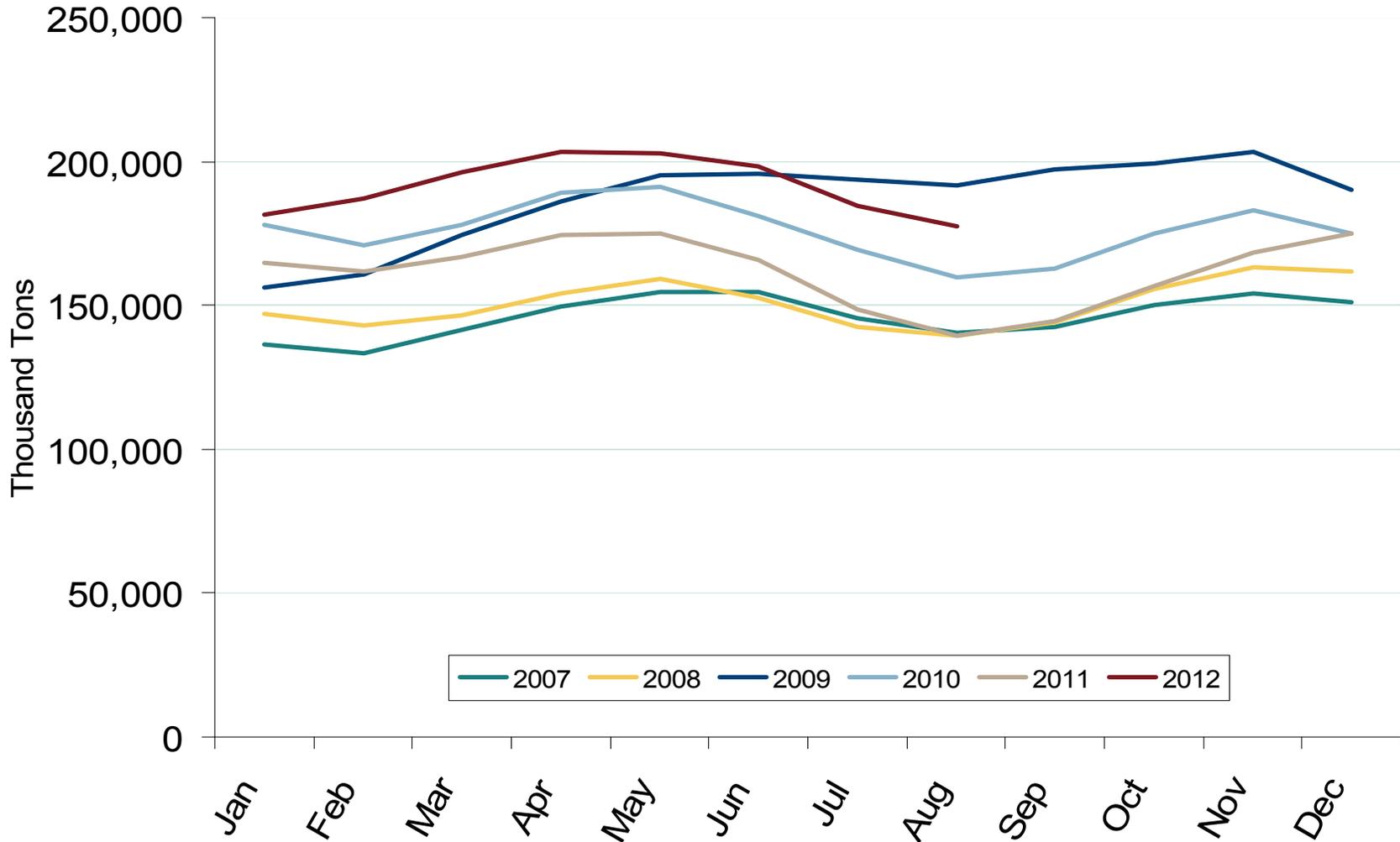
Notes: The Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances

Source: Derived from Bloomberg data

Updated: November 09, 2012

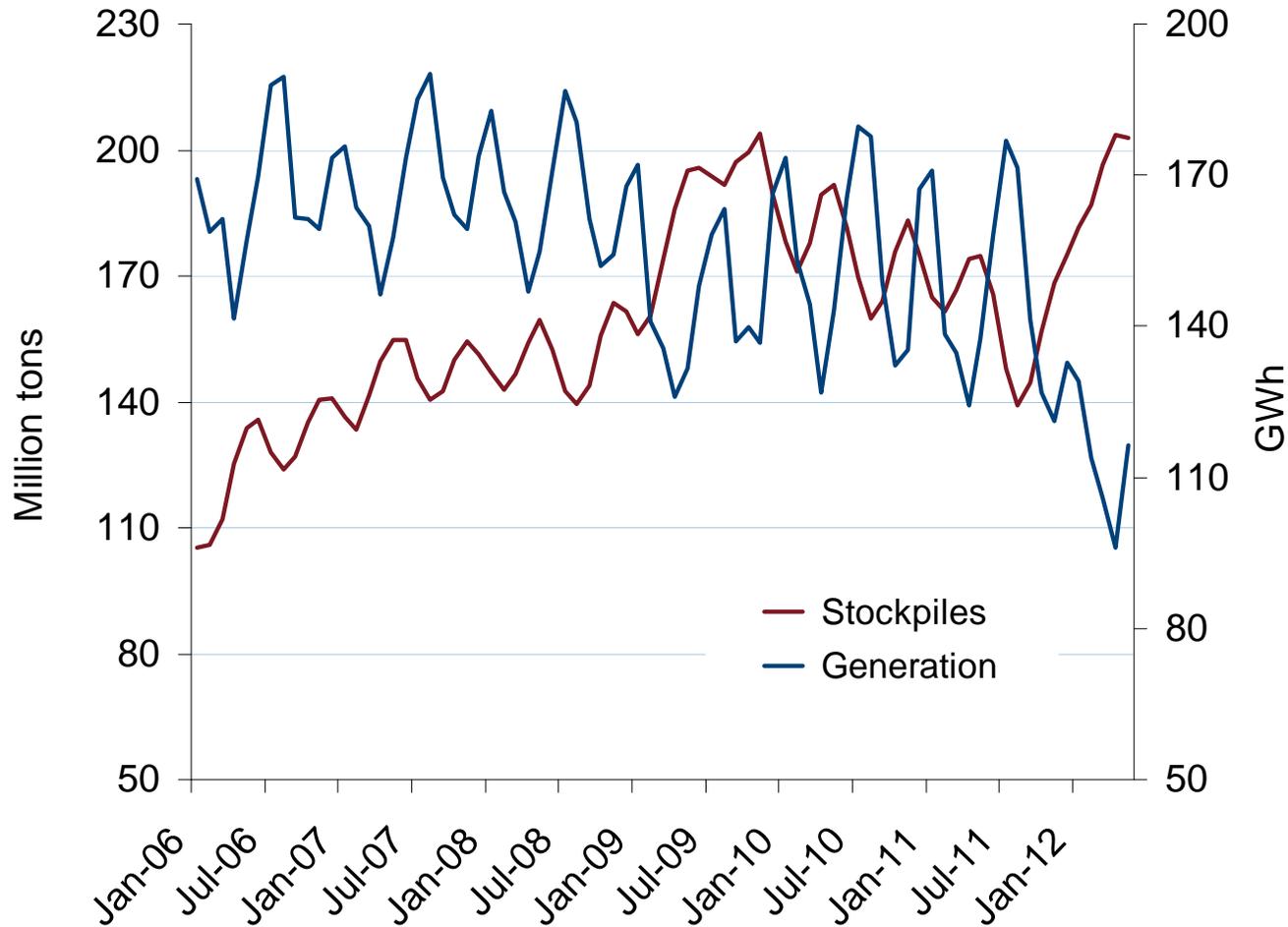
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## U.S. Coal Stockpiles at Electric Power Generating Facilities



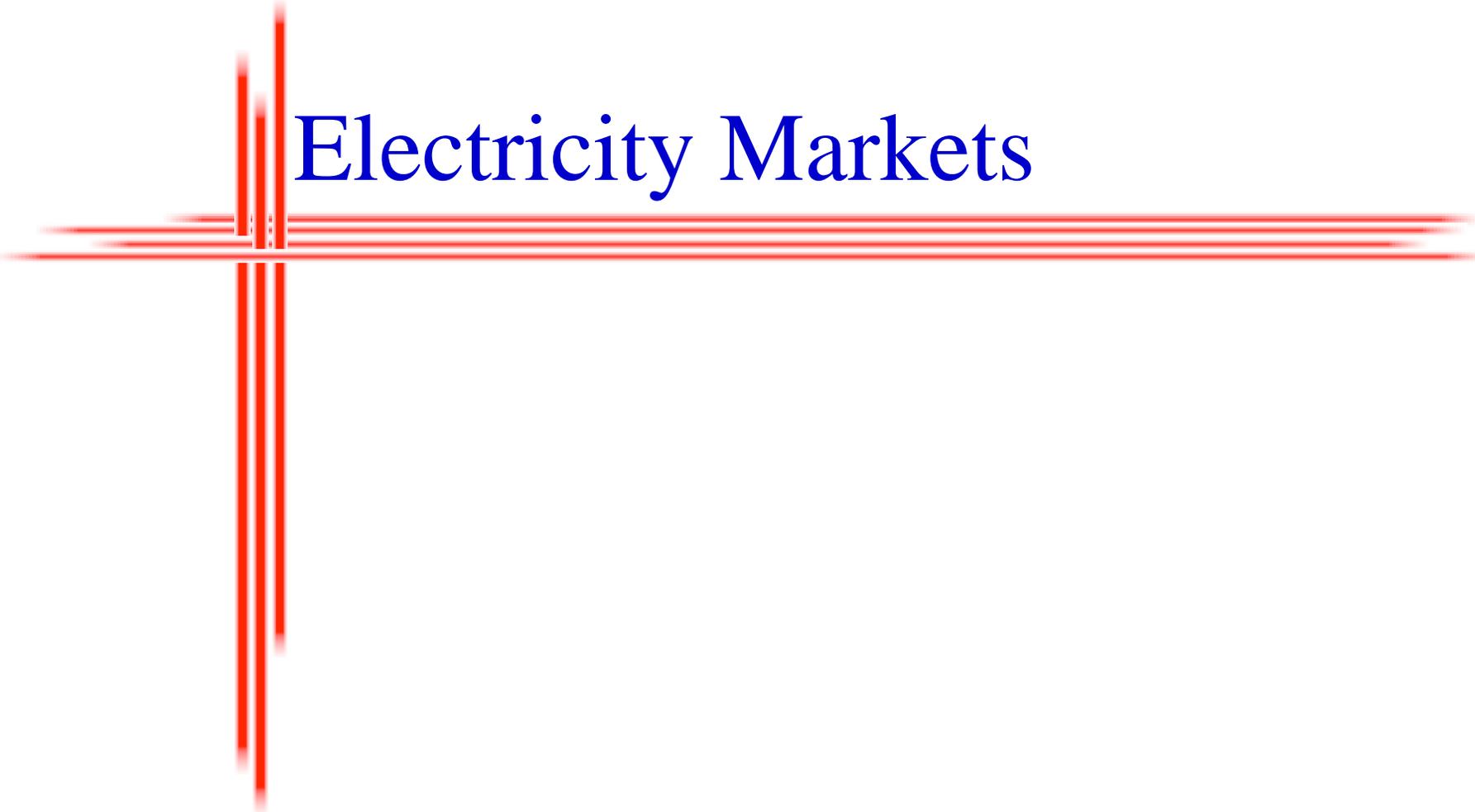
Source: Derived from EIA data. Excludes Industrial and Commercial Plants  
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## U.S. Coal Stockpiles and Generation



Source: Derived from Energy Information Administration data

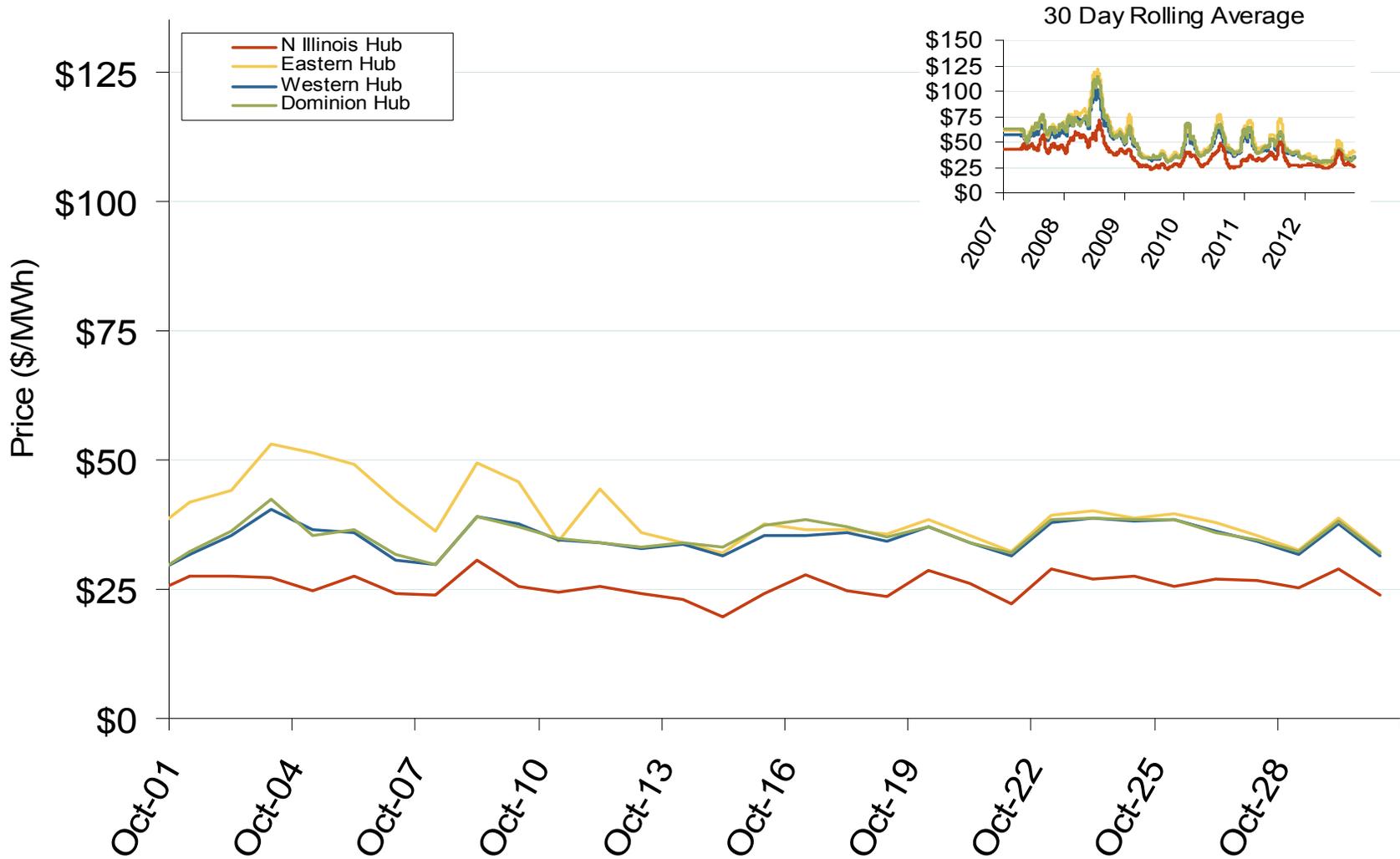
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# Electricity Markets

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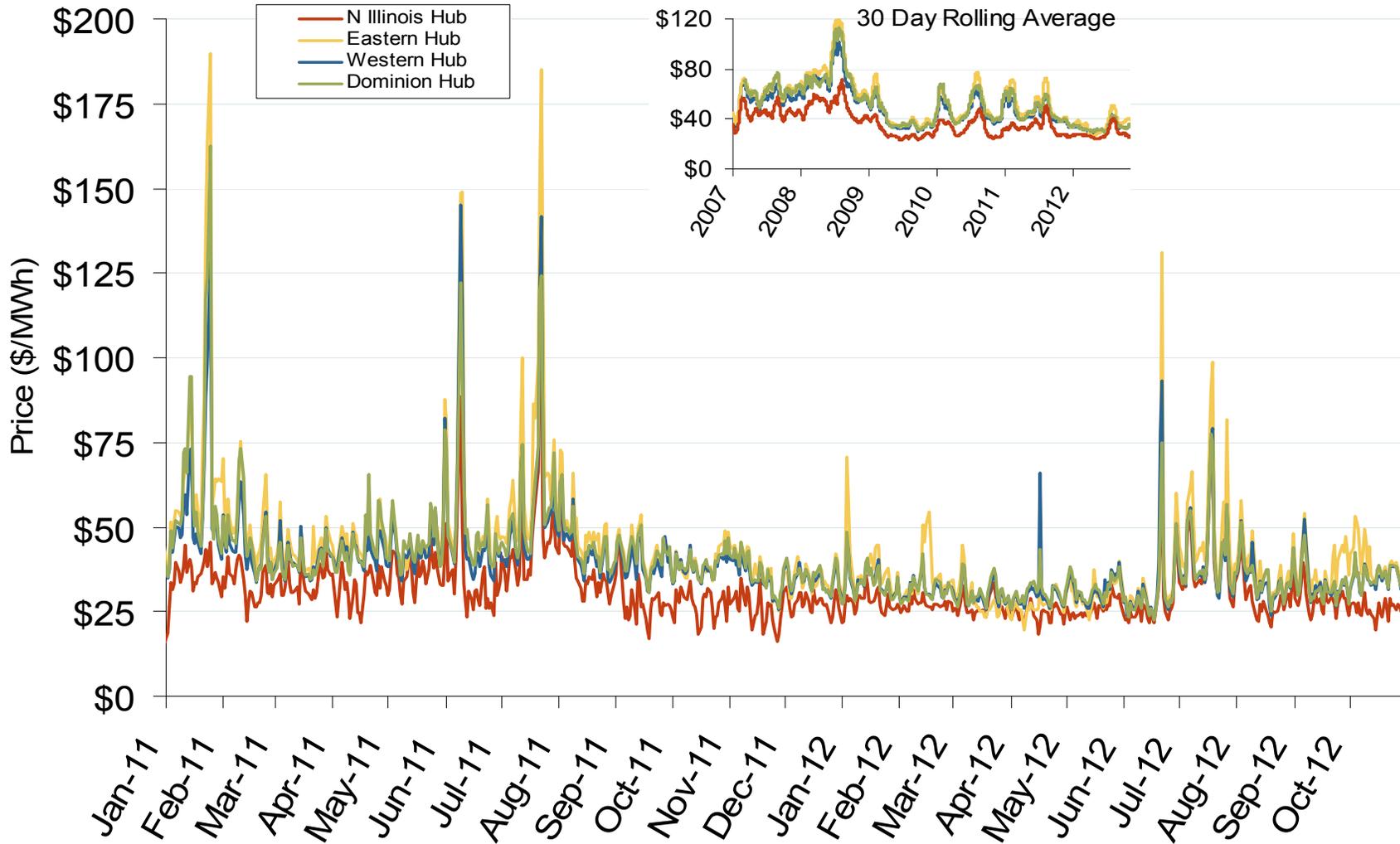
## Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data

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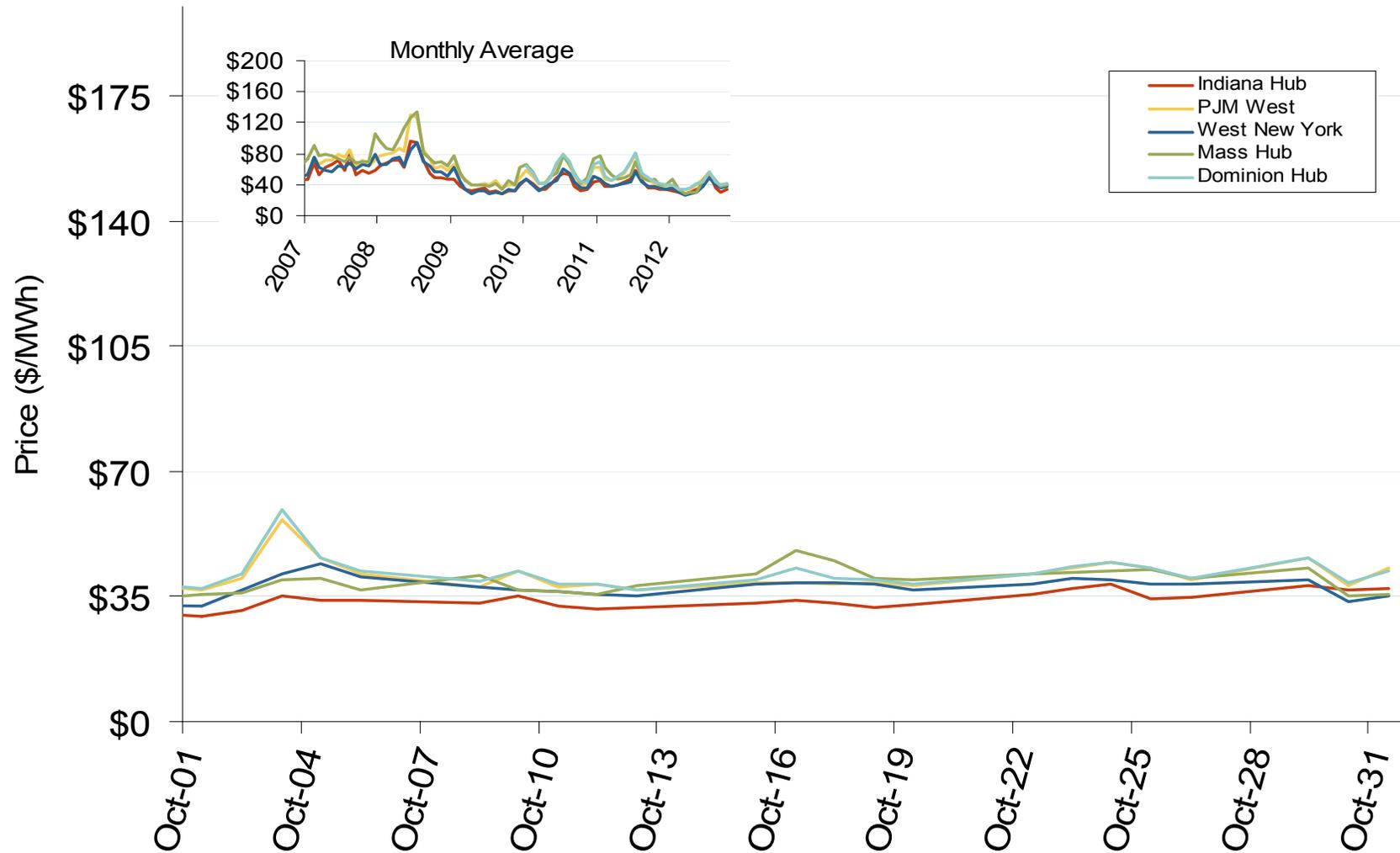
## Daily Average of PJM Day-Ahead Prices - All Hours



Source: Derived from Bloomberg data

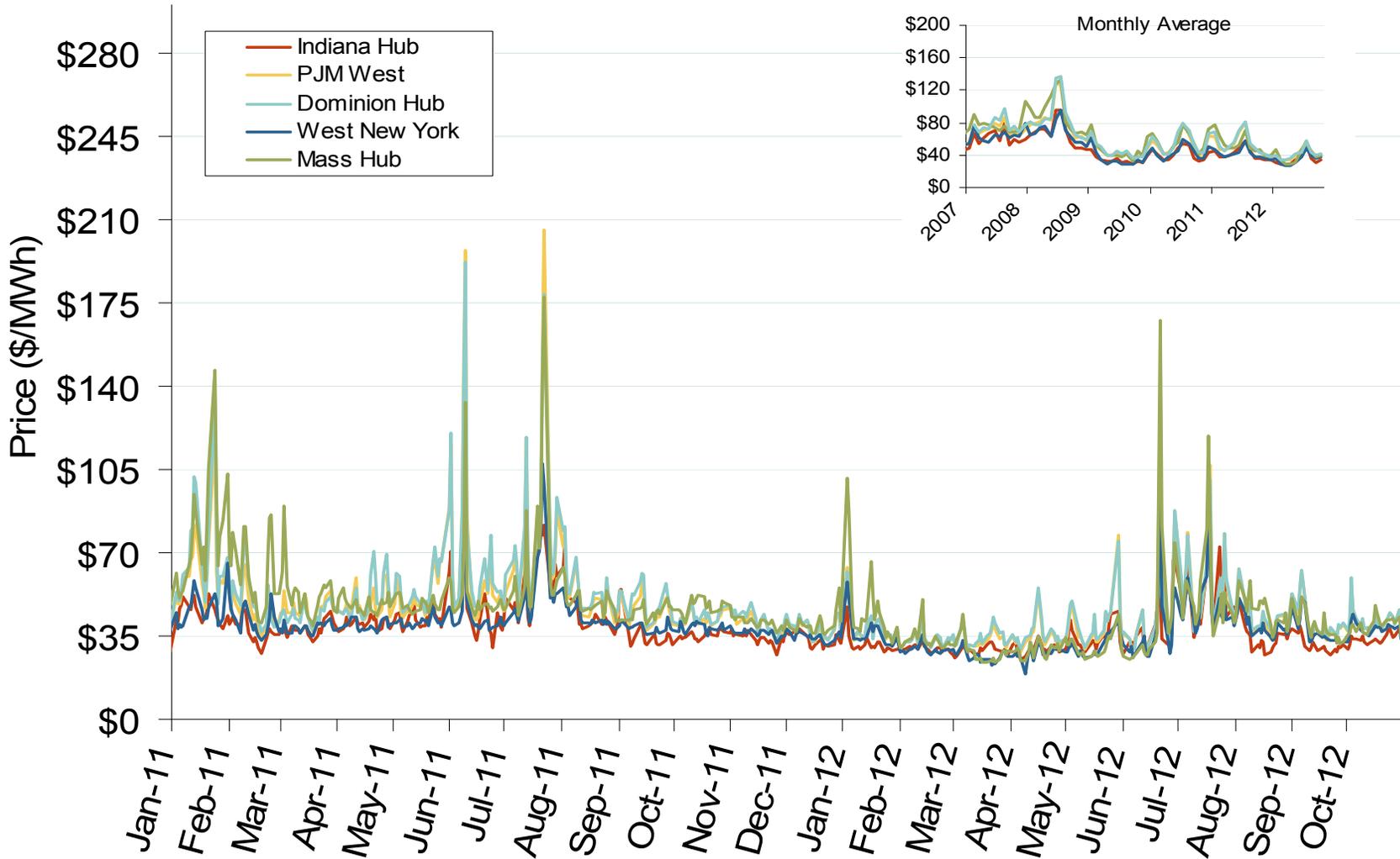
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## Eastern Daily Index Day-Ahead On-Peak Prices



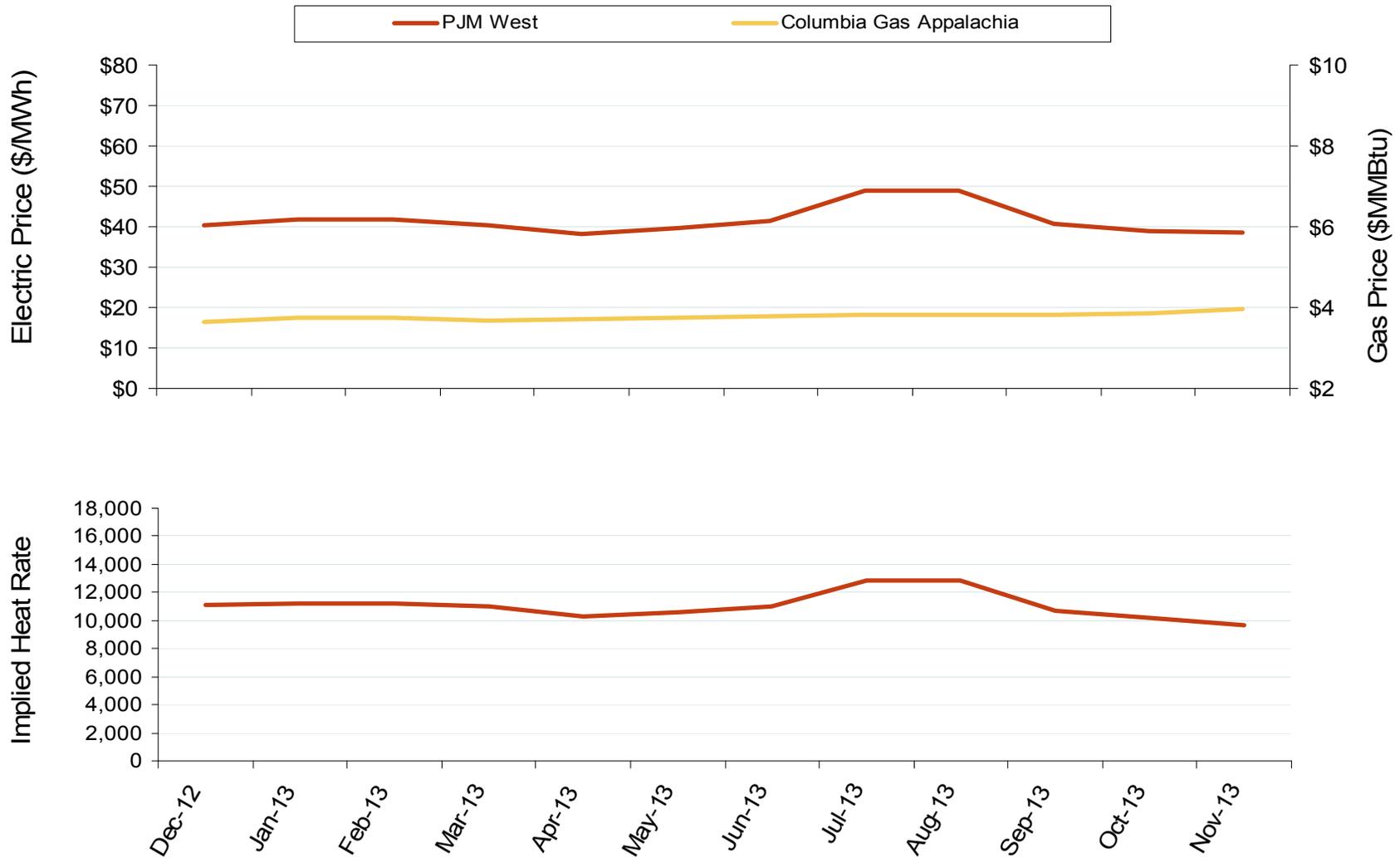
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## Eastern Daily Index Day-Ahead On-Peak Prices



Source: Derived from Platts data

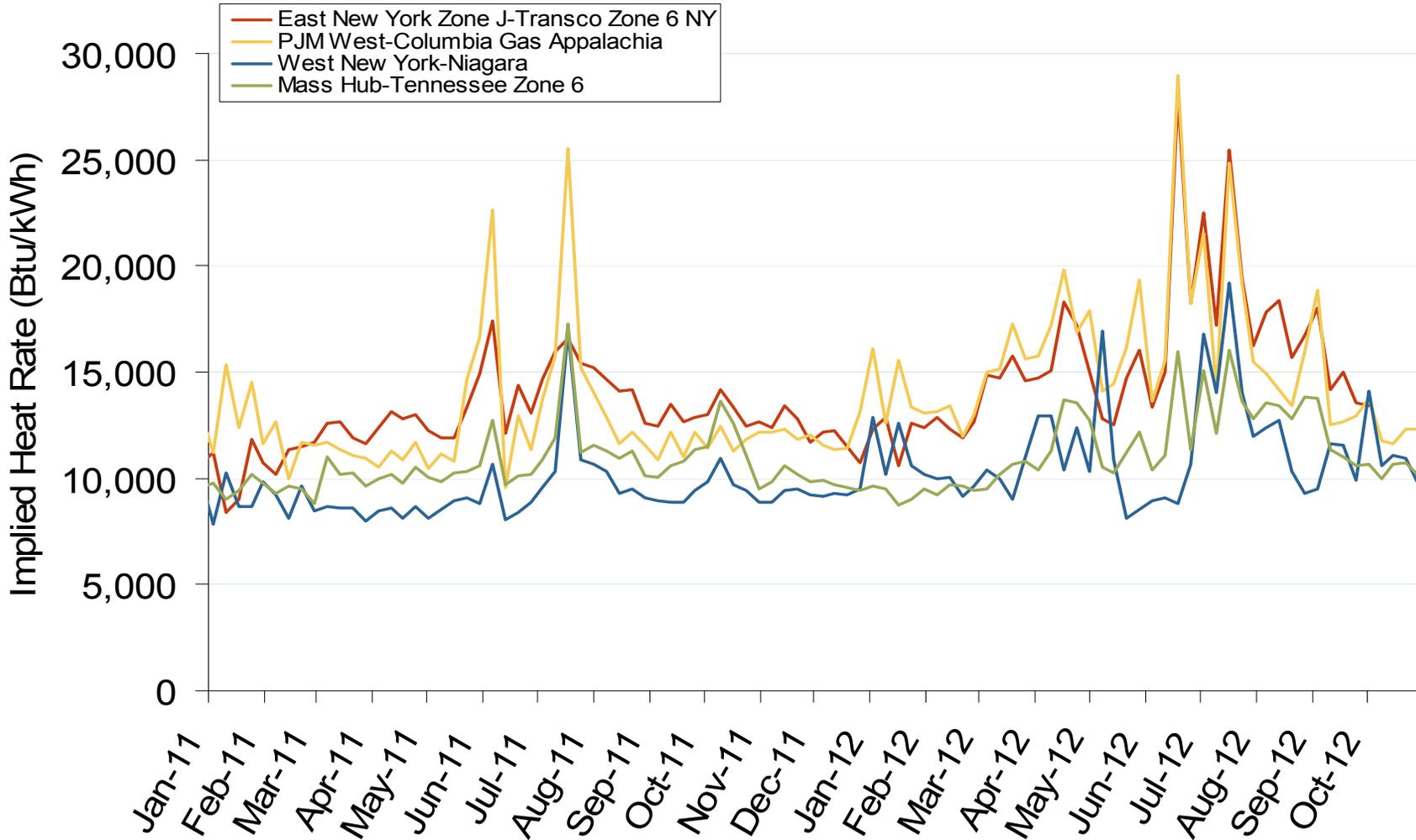
## PJM West Electric Forward Price Curves and Implied Heat Rates



Source: Derived from Nymex data

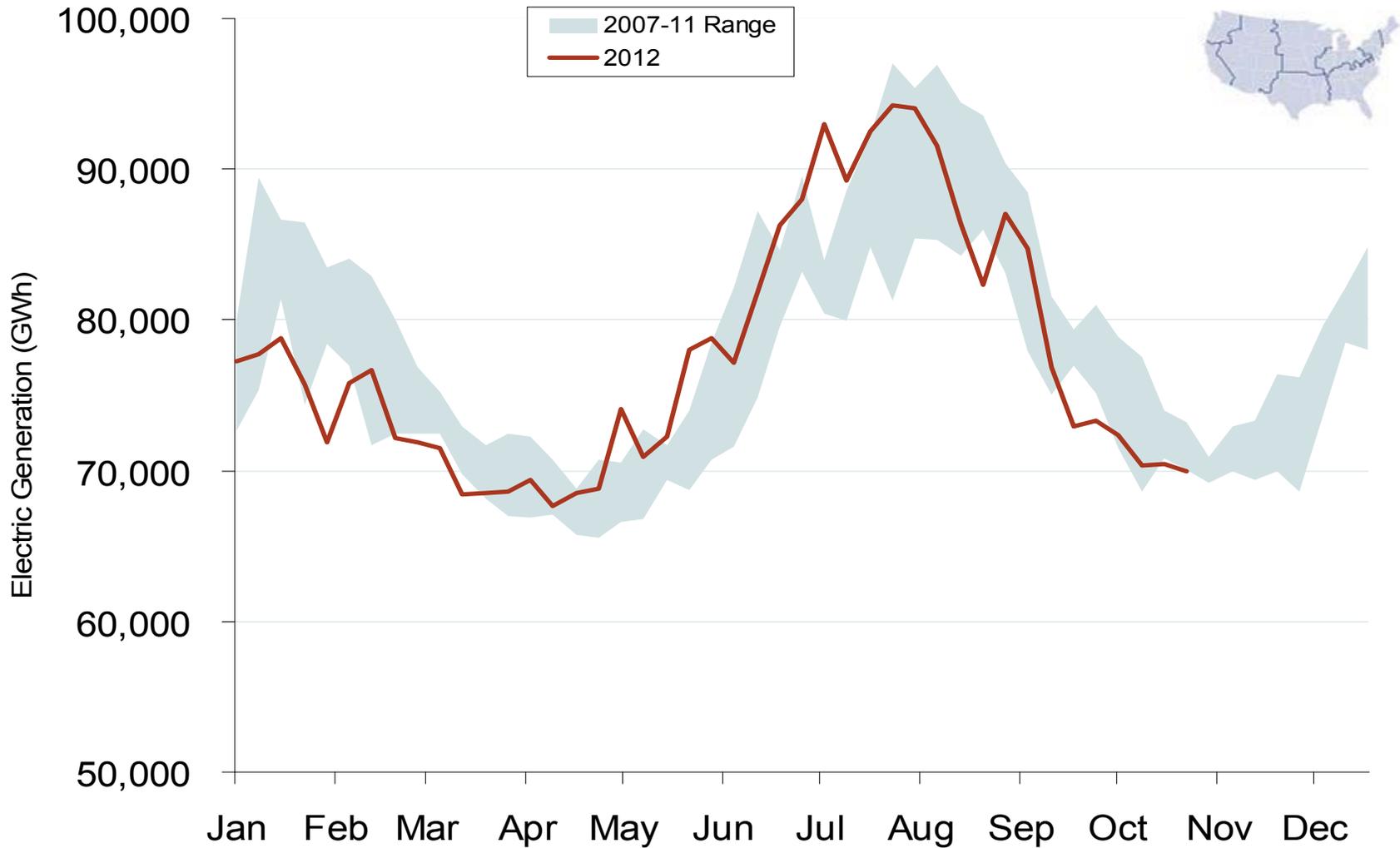
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## Implied Heat Rates at Eastern Trading Points - Weekly Avgs.

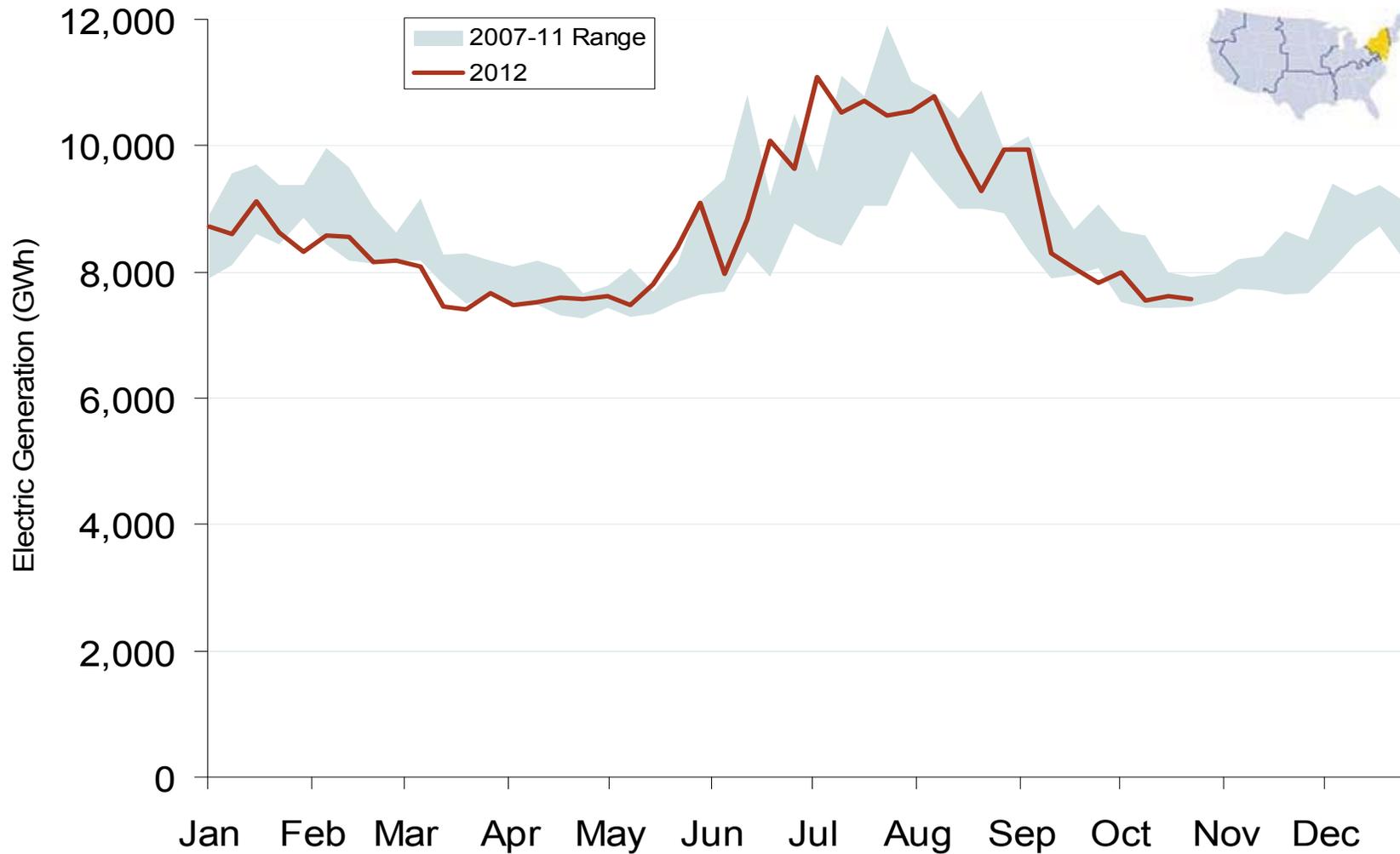


Source: Derived from Platts on-peak electric and natural gas price data  
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## Weekly U.S. Electric Generation Output



## Weekly Generation Output - Mid Atlantic



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## Weekly Generation Output - Central Industrial Region

