

# **OE ENERGY MARKET SNAPSHOT**

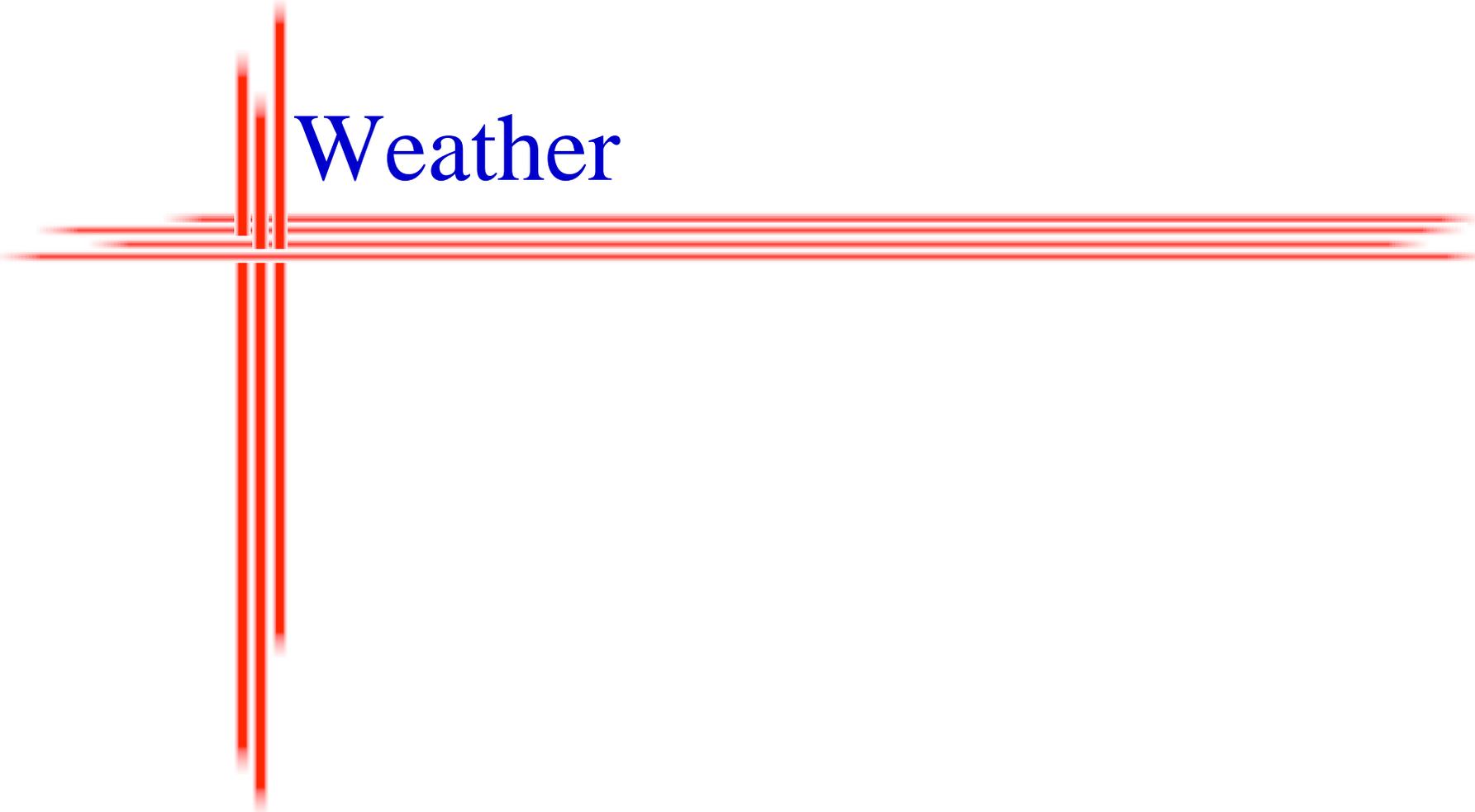
## **Midwest States Version – June 2012 Data**

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Office of Enforcement  
Federal Energy Regulatory Commission  
July 2012

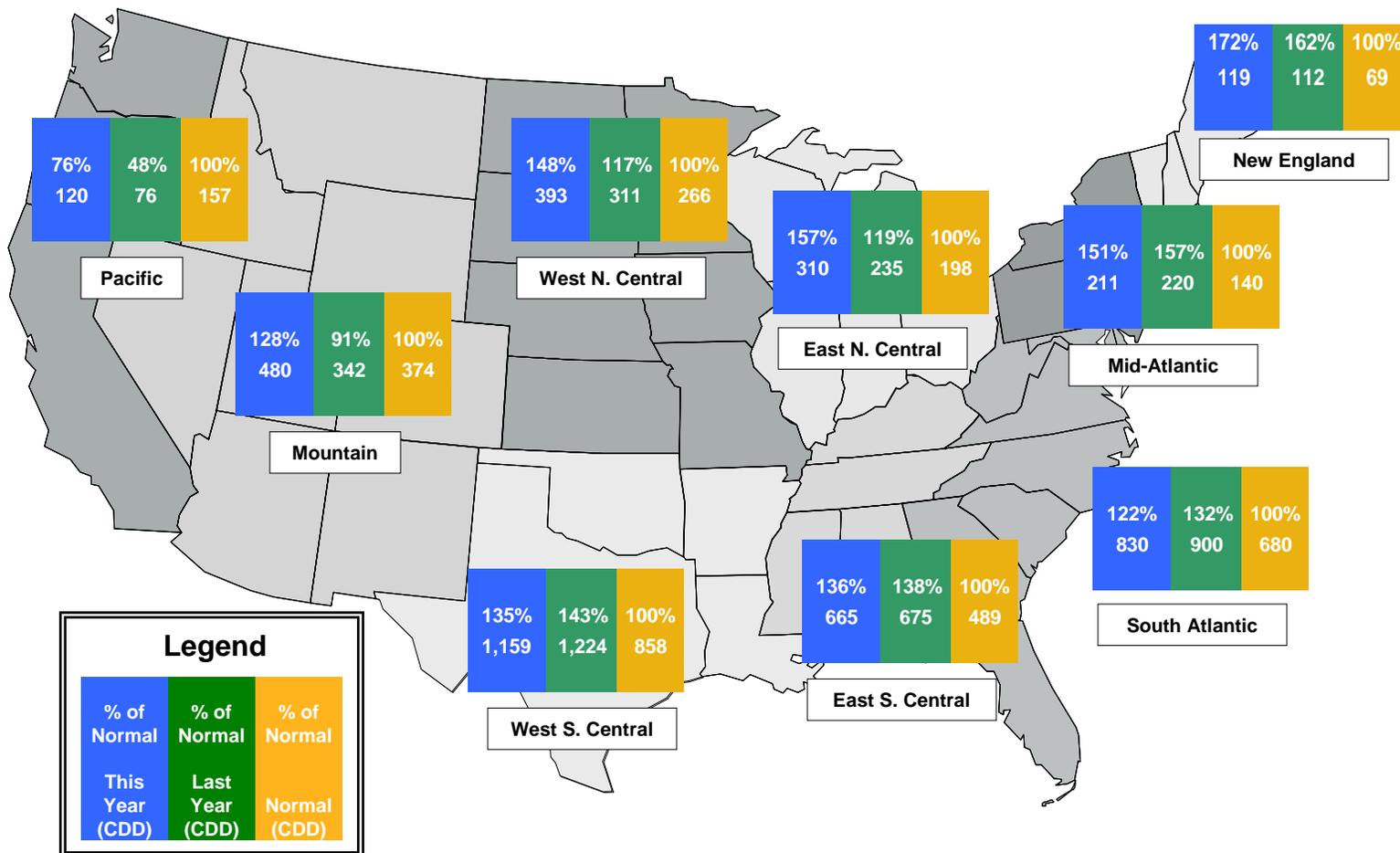
# Infrastructure Report

## May Infrastructure Report



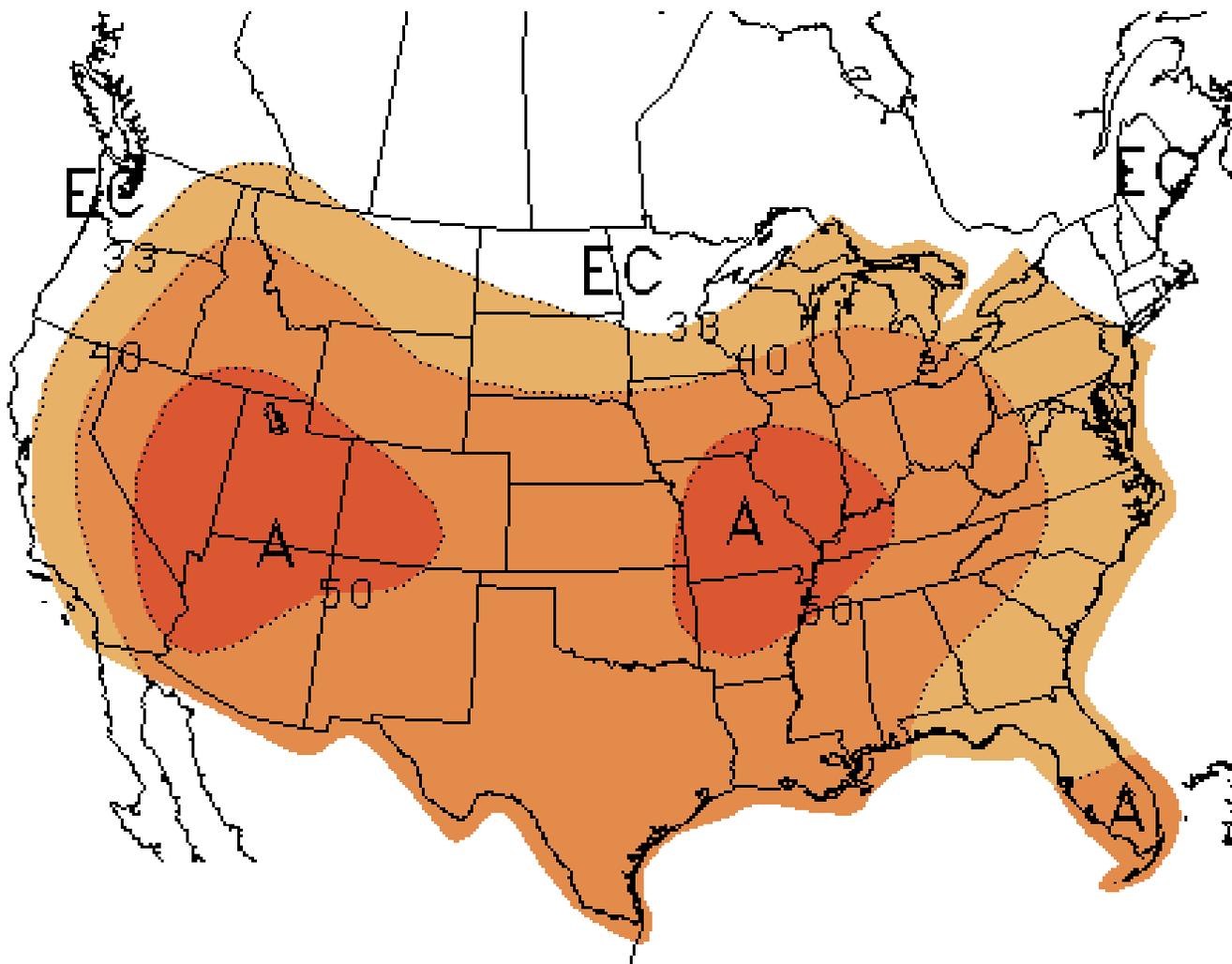
# Weather

## Regional Cooling Degree Days – January to June 2012



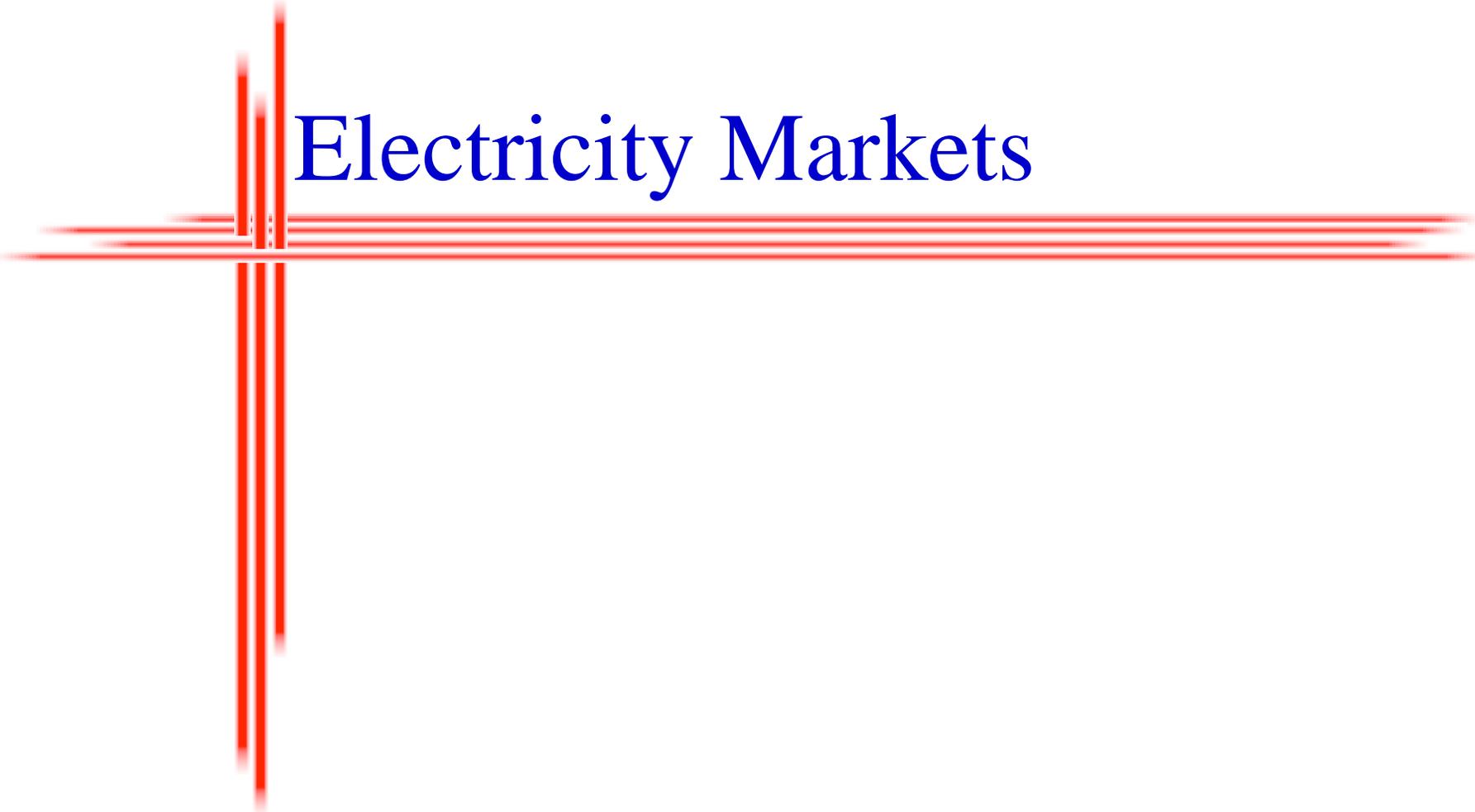
Source: Derived from NOAA data. Normal is based on a 30-year average of cooling degree day data.  
 July 2012 Midwest Snapshot Report

## NOAA's 3 Month Temperature Forecast Made June 19, 2012, Valid for July 2012 – August 2012



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: June 23, 2012

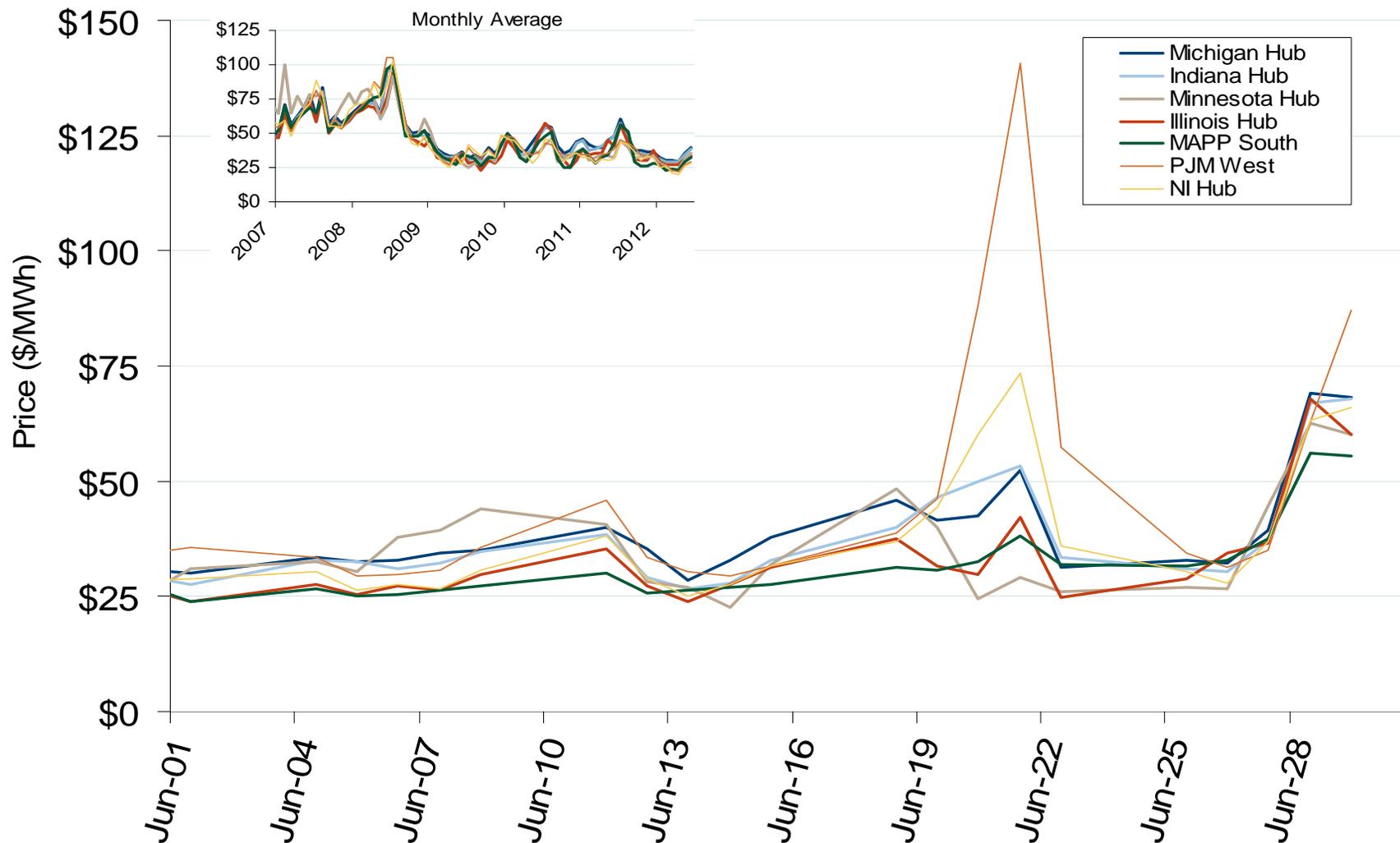


# Electricity Markets

Midwest Electric Market: Last Month's MISO/PJM Index Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

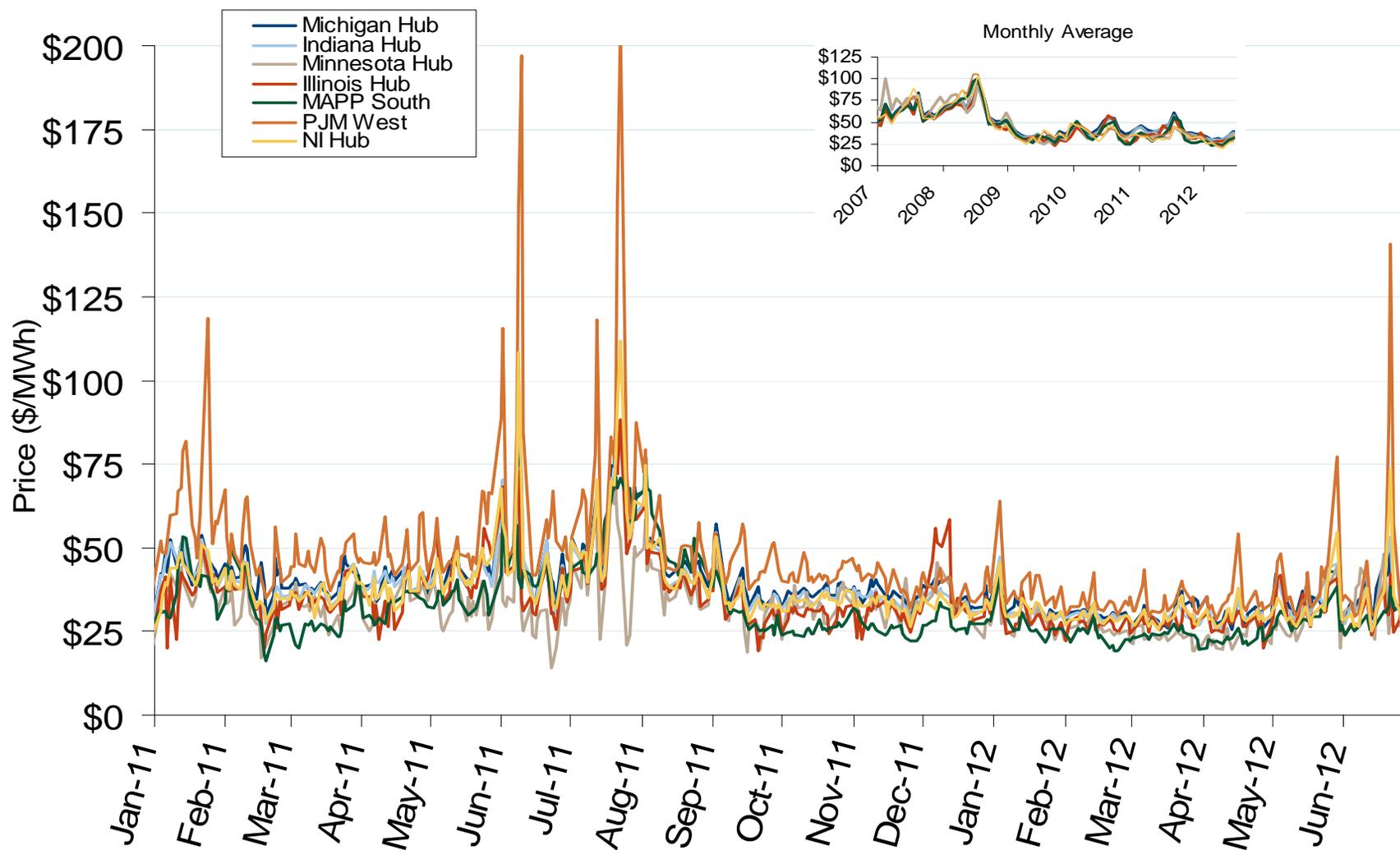
## MISO/PJM Index Day-Ahead On-Peak Prices



Midwest Electric Market: MISO/PJM Index Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

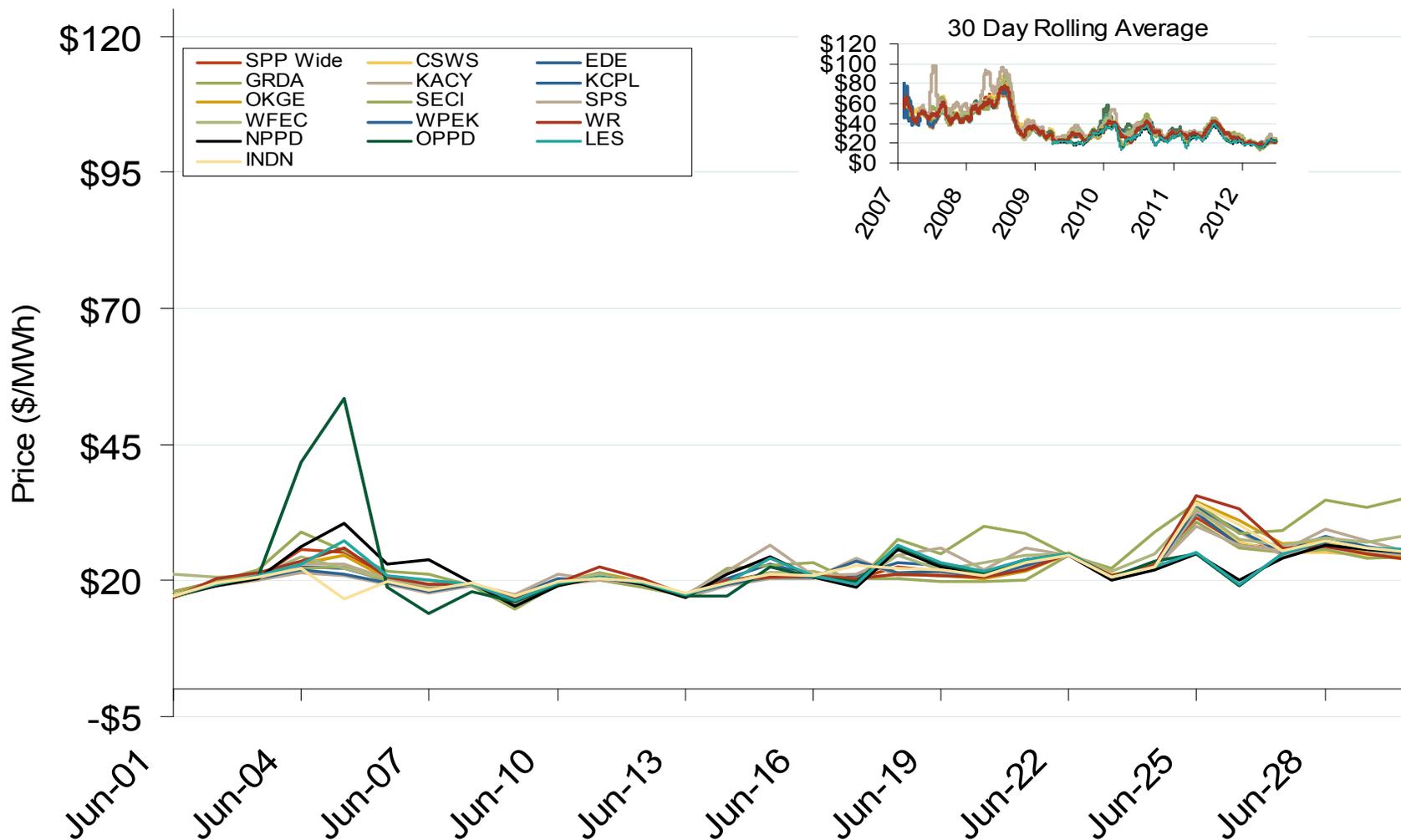
## MISO/PJM Index Day-Ahead On-Peak Prices



Southwest Power Pool Electric Market: Last Month's RTO Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

## Daily Average of SPP Real Time Prices - All Hours



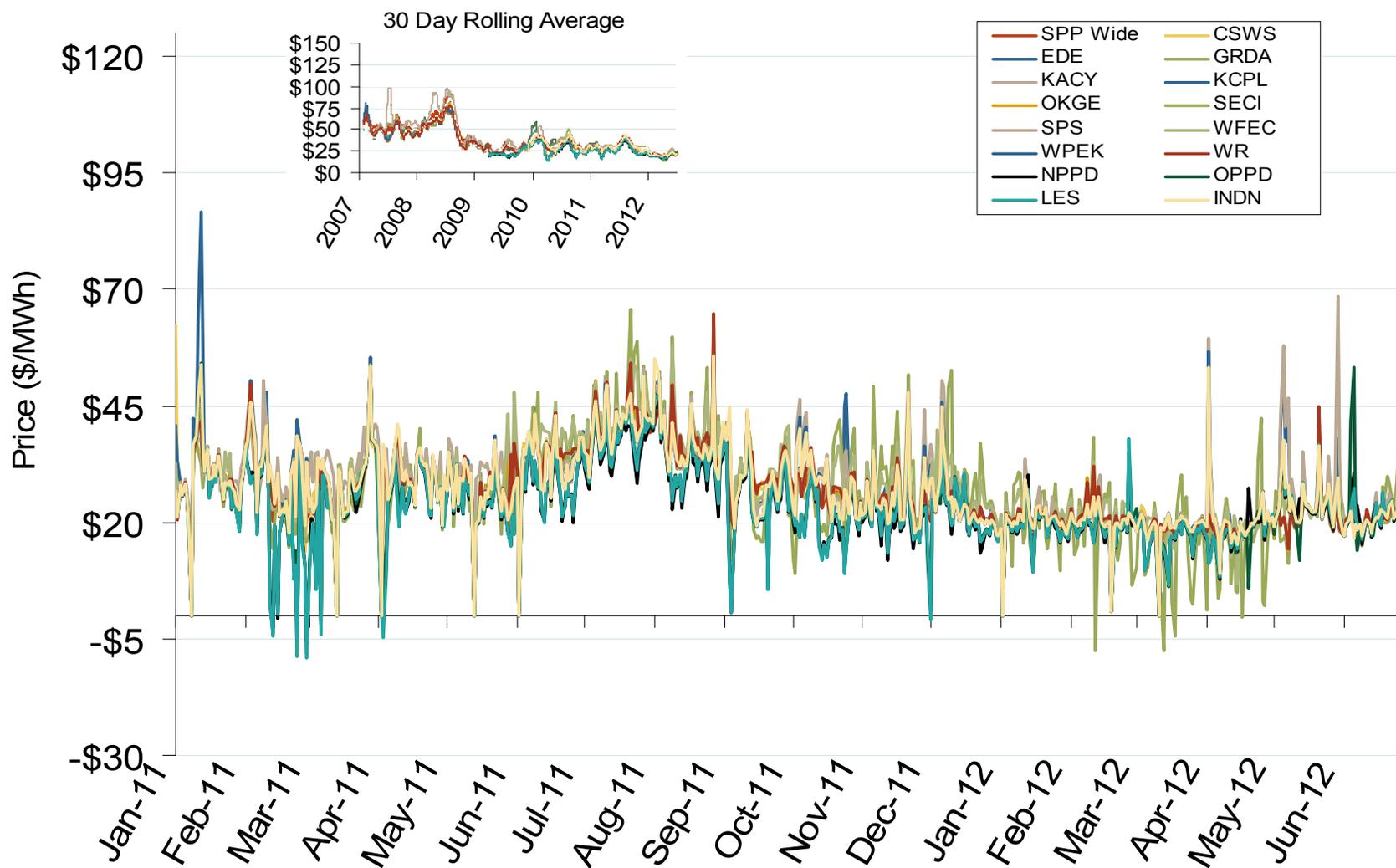
Note: ICE on-peak forward (physical) volumes are for Entergy, Southern and TVA and include monthly, dual monthly, quarterly, and calendar year contracts traded for each month.

Source: Derived from SPP data

Southwest Power Pool Electric Market: RTO Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

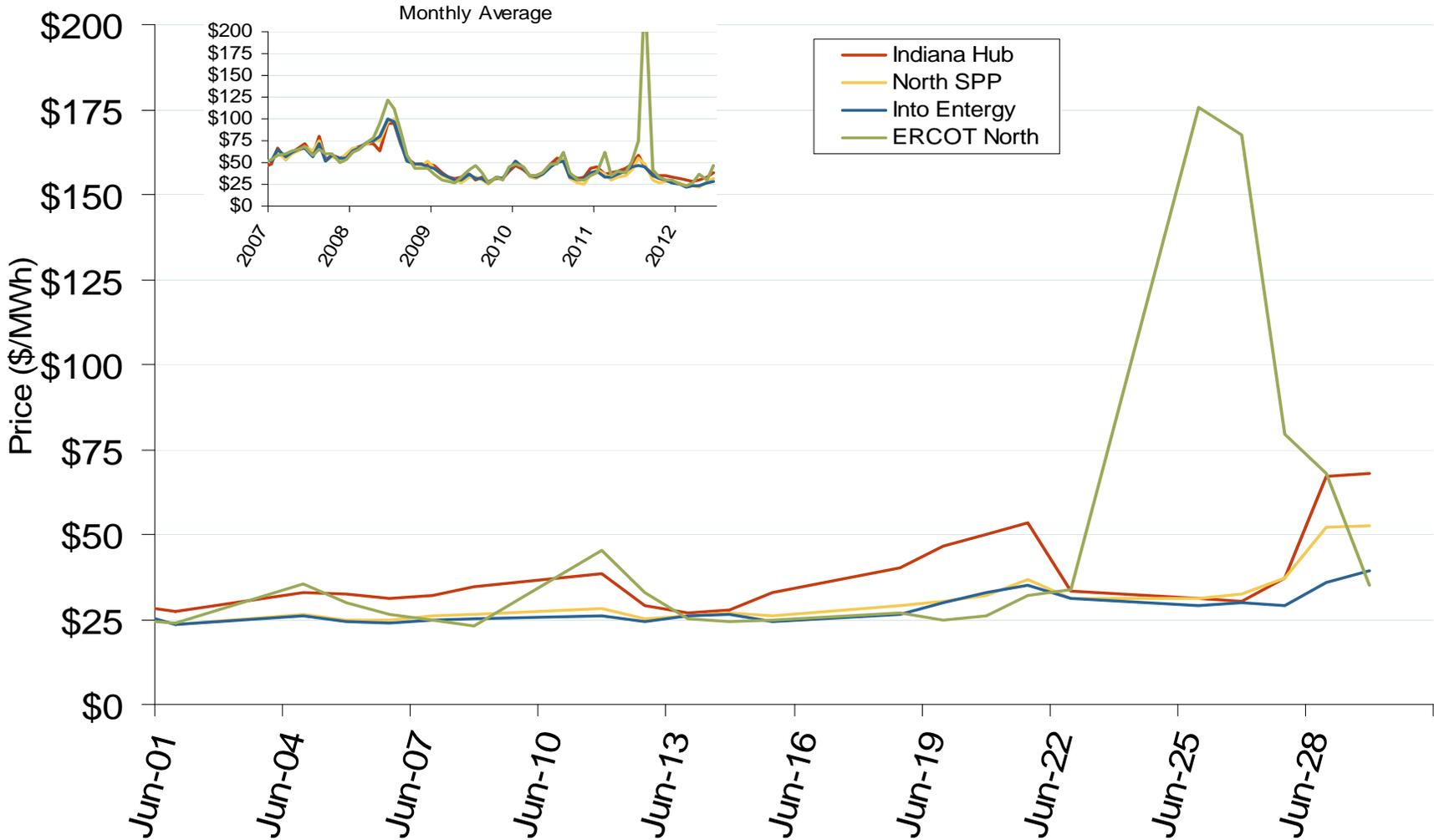
## Daily Average of SPP Real Time Prices - All Hours



Midwest Electric Market: Last Month's Midwestern Index Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

**Midwestern Daily Index Day-Ahead On-Peak Prices**



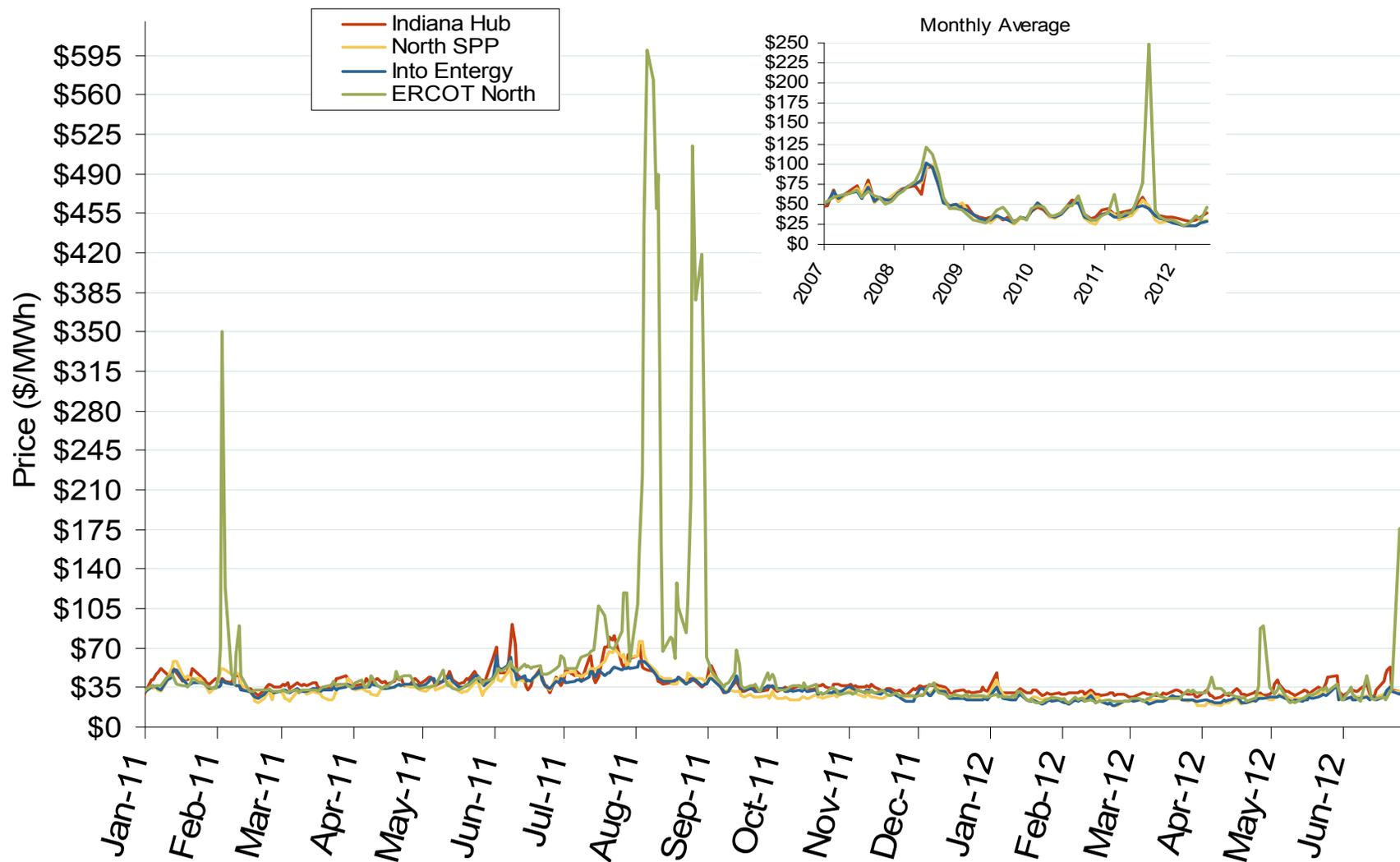
Source: Derived from Platts data  
July 2012 Midwest Snapshot Report

Updated: July 10, 2012

Southeast Electric Market: Midwestern Index Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

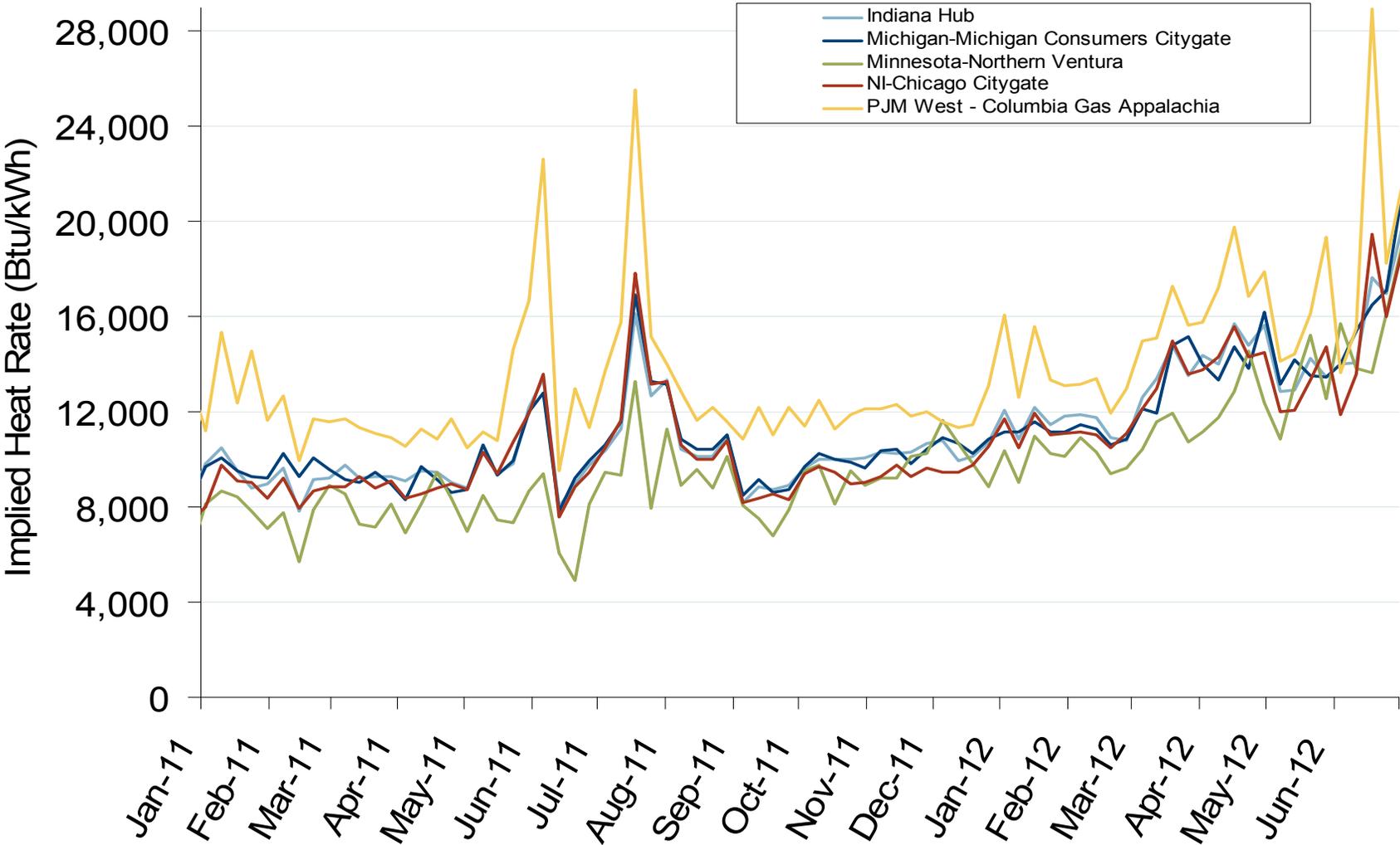
## Midwestern Daily Index Day-Ahead On-Peak Prices



Midwest Electric Market: MISO/PJM Implied Heat Rates

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

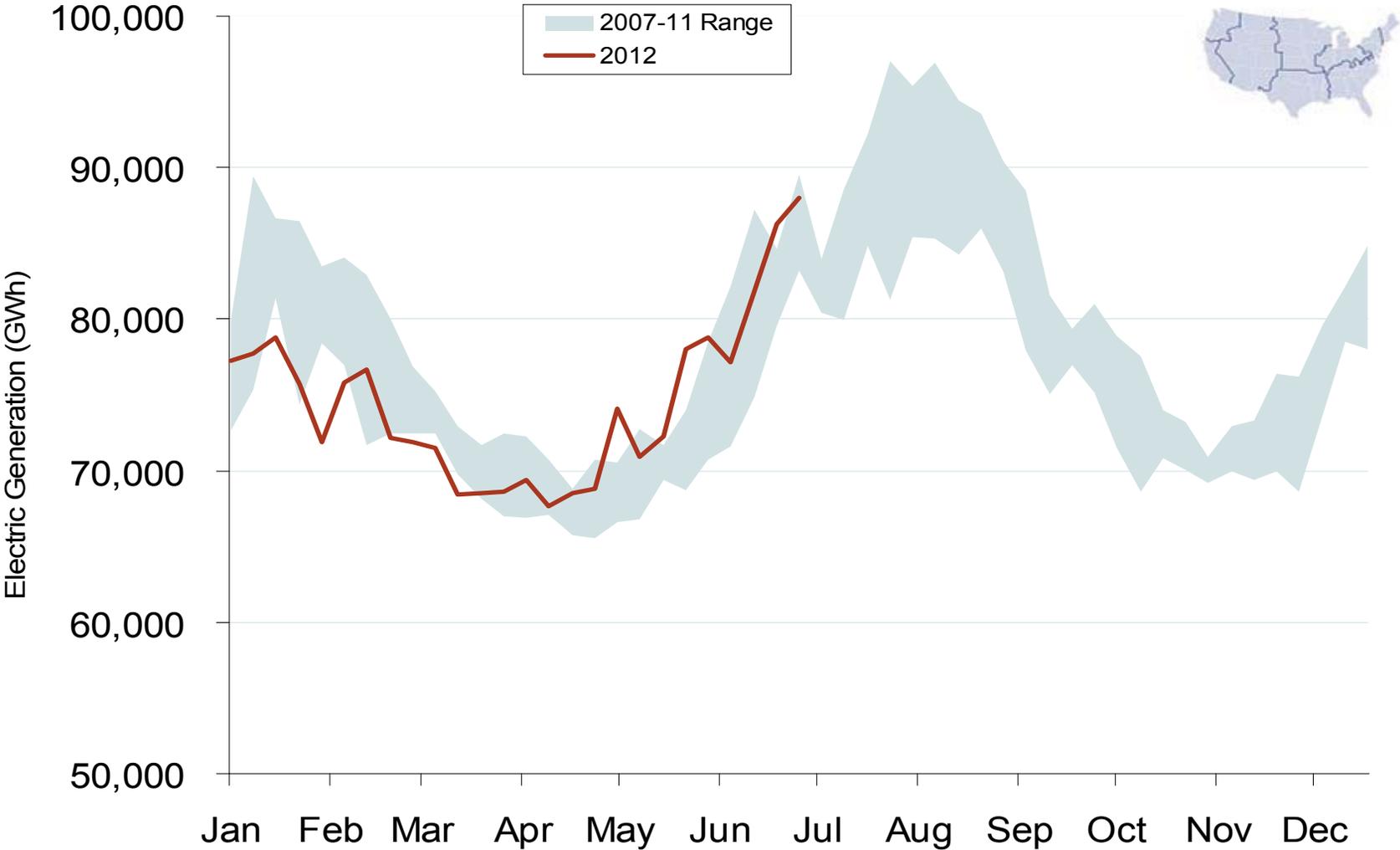
# Implied Heat Rates at MISO and PJM Hubs - Weekly Averages



Source: Derived from *Platts* on-peak electric and natural gas price data  
July 2012 Midwest Snapshot Report

Updated: July 10, 2012

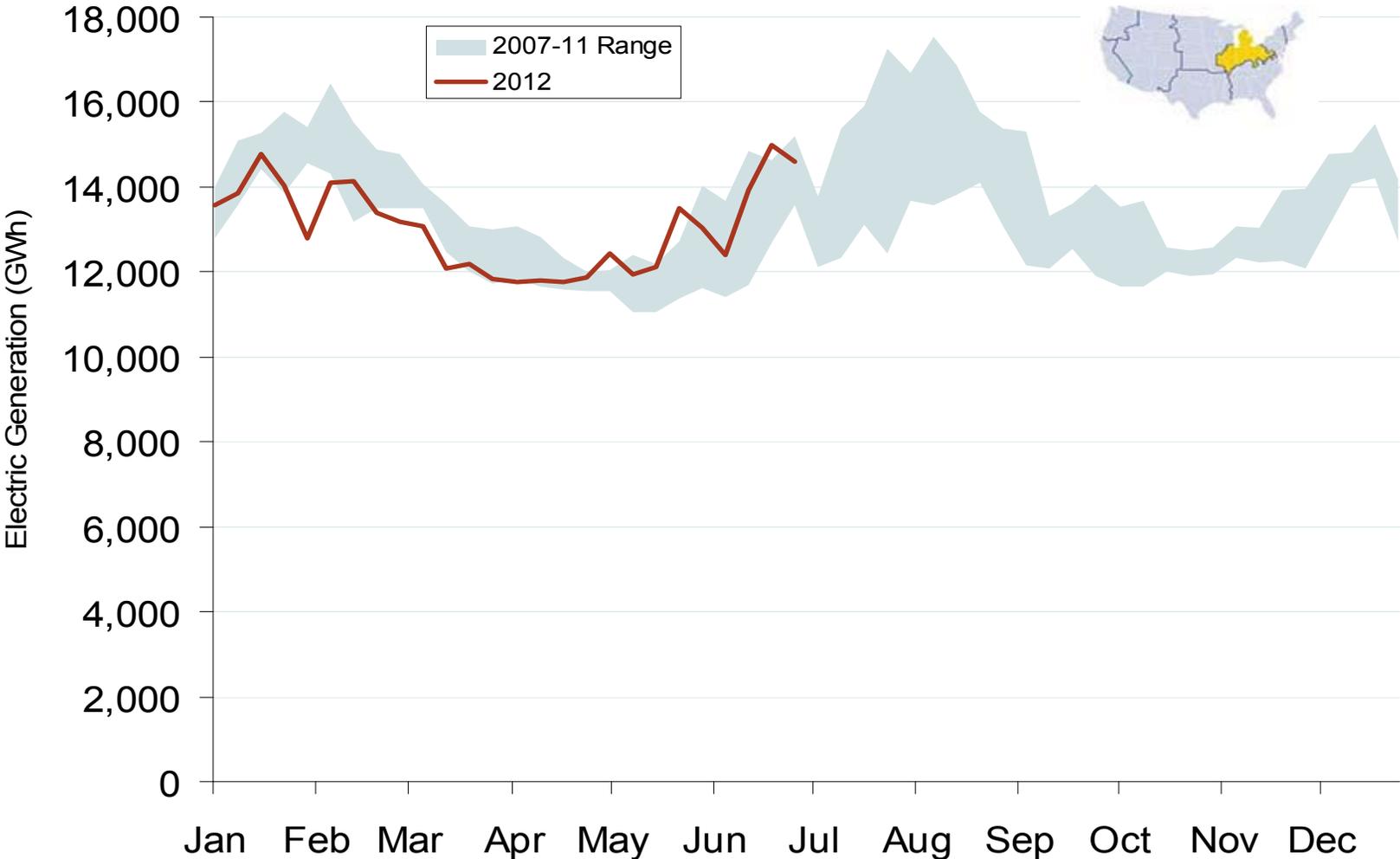
# Weekly U.S. Electric Generation Output



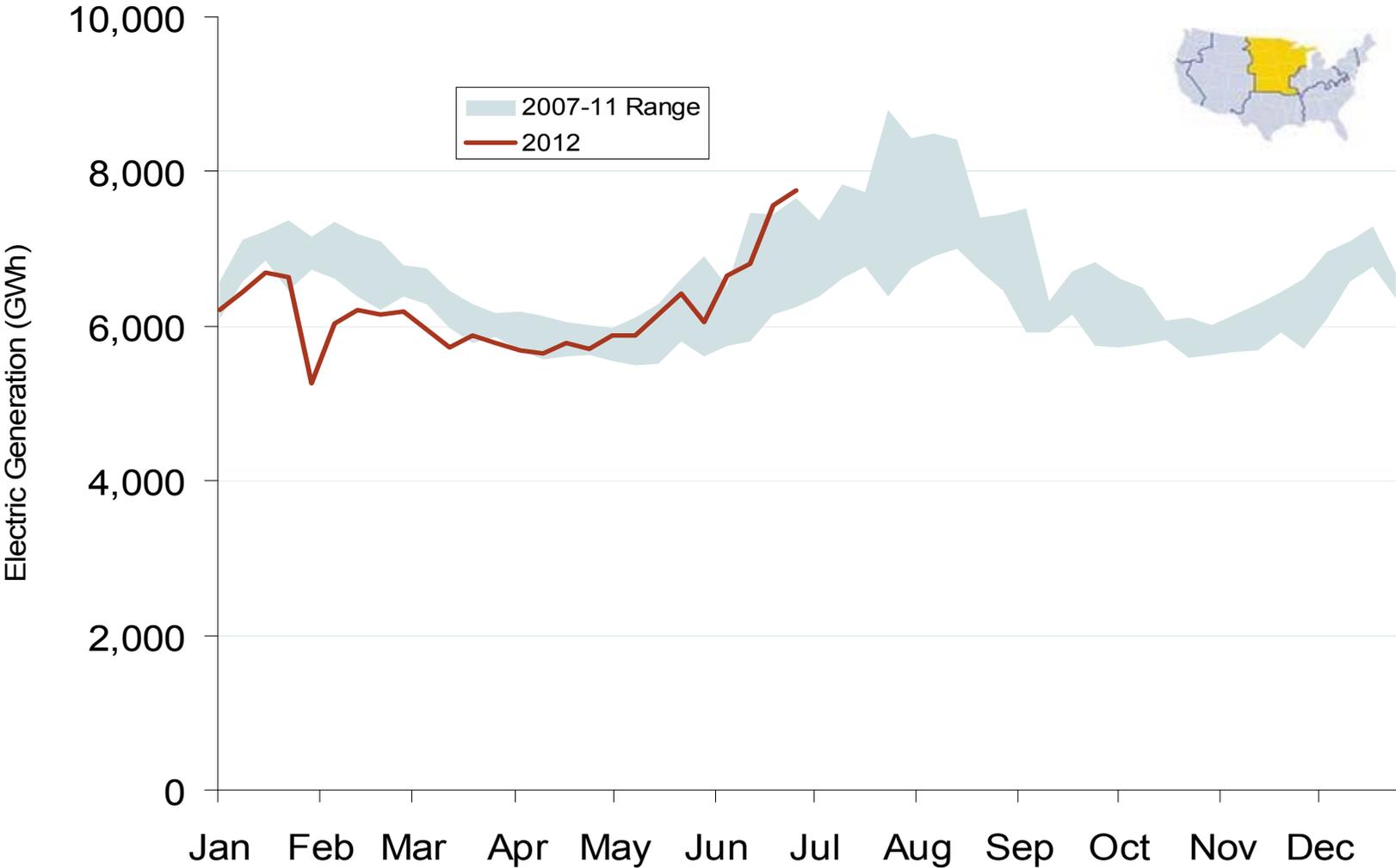
Source: Derived from *EEI* data  
July 2012 Midwest Snapshot Report

Updated: July 11, 2012

# Weekly Generation Output - Central Industrial Region



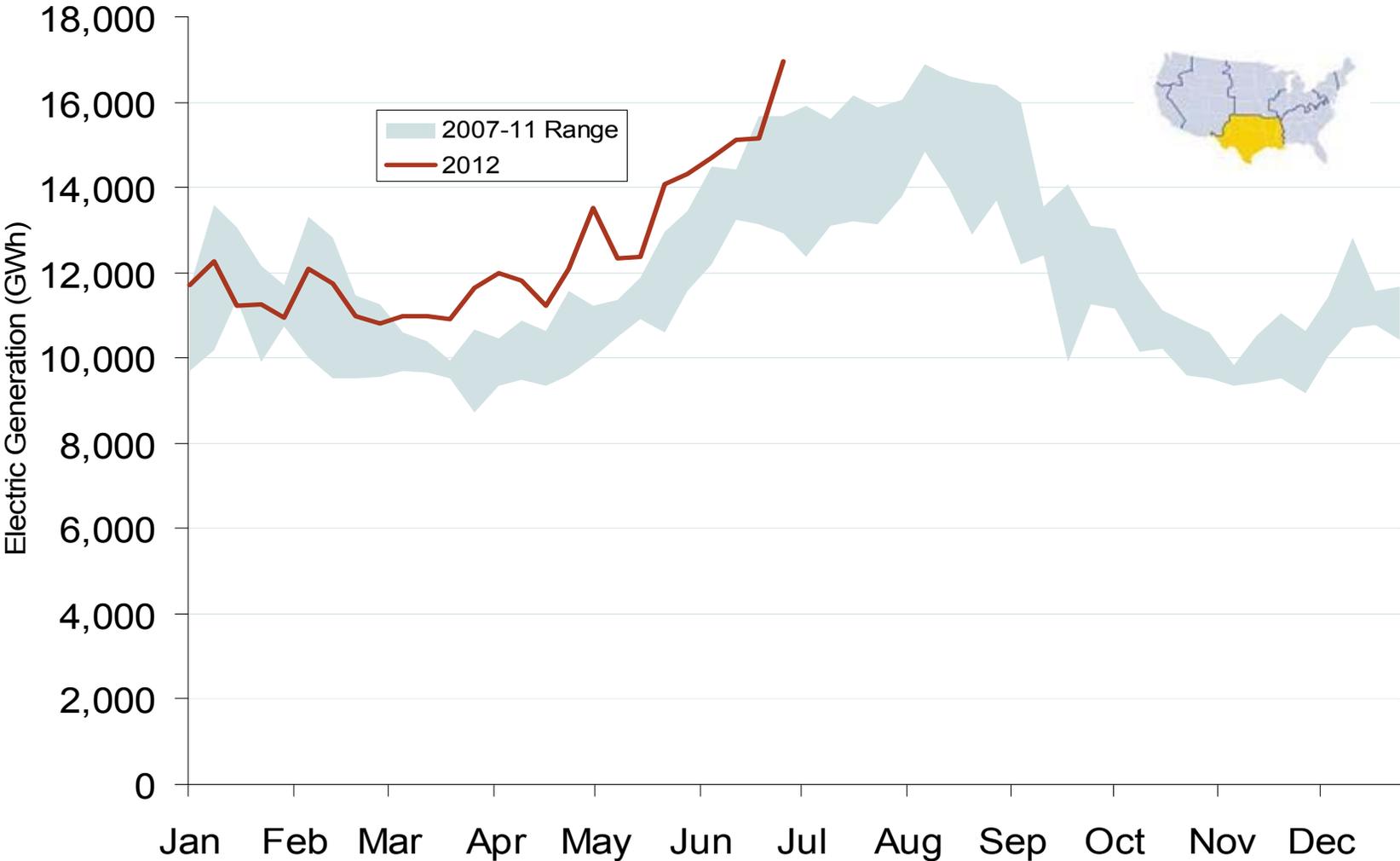
# Weekly Generation Output - West Central



Source: Derived from *EEI* data  
July 2012 Midwest Snapshot Report

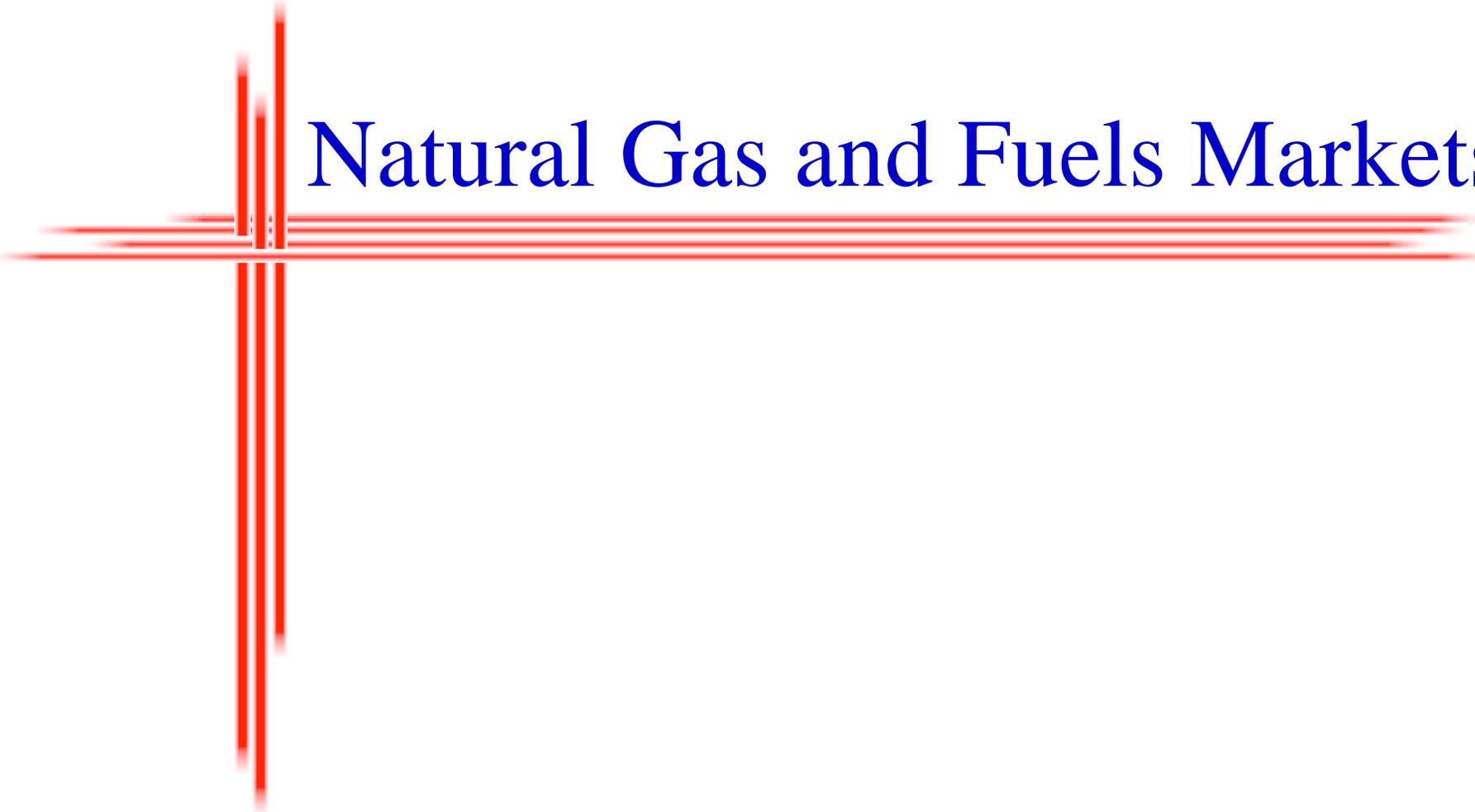
Updated: July 11, 2012

### Weekly Generation Output - South Central



Source: Derived from EEI data  
July 2012 Midwest Snapshot Report

Updated: July 11, 2012

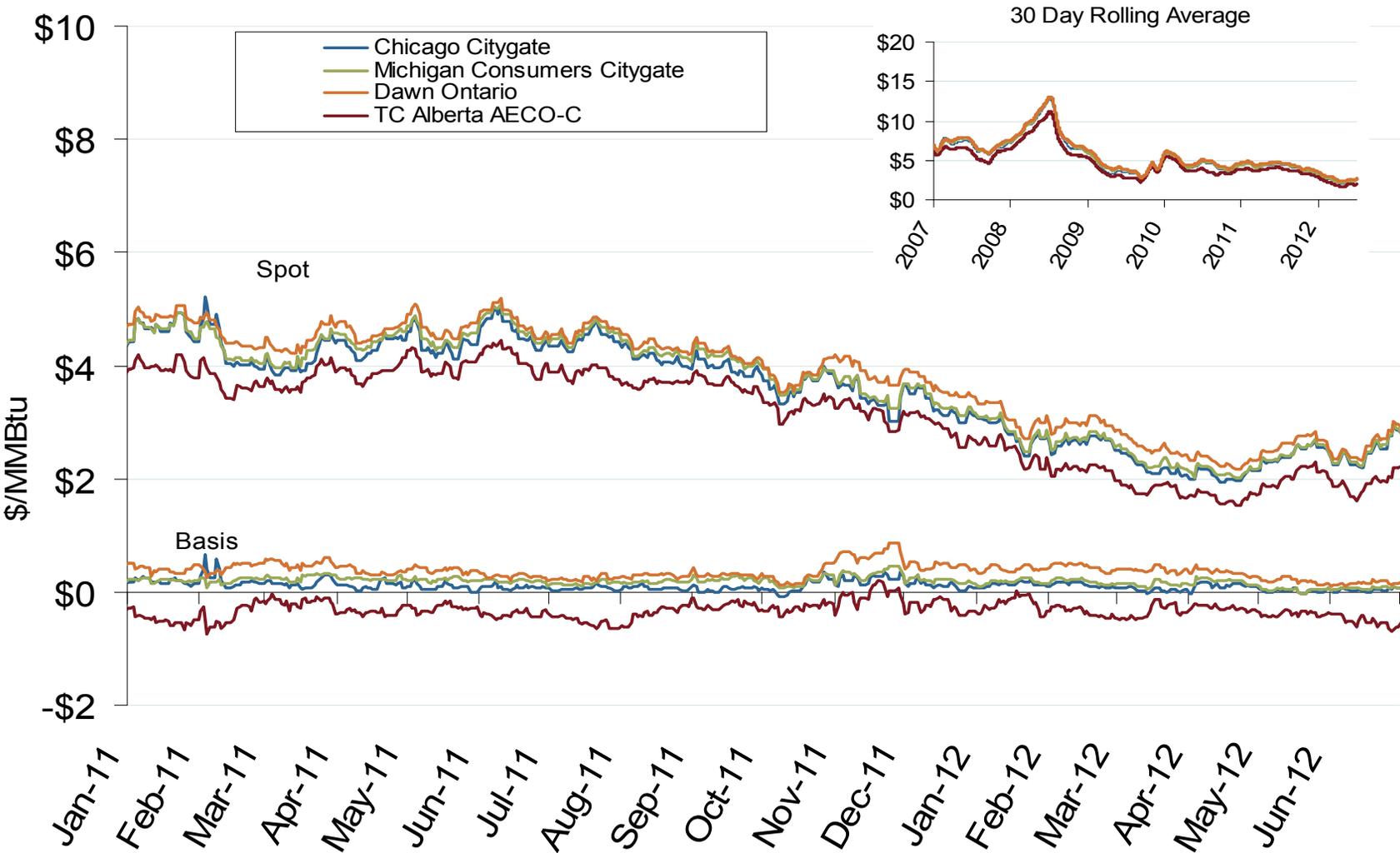


# Natural Gas and Fuels Markets

Midwest Natural Gas Market: Spot Prices and Basis

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

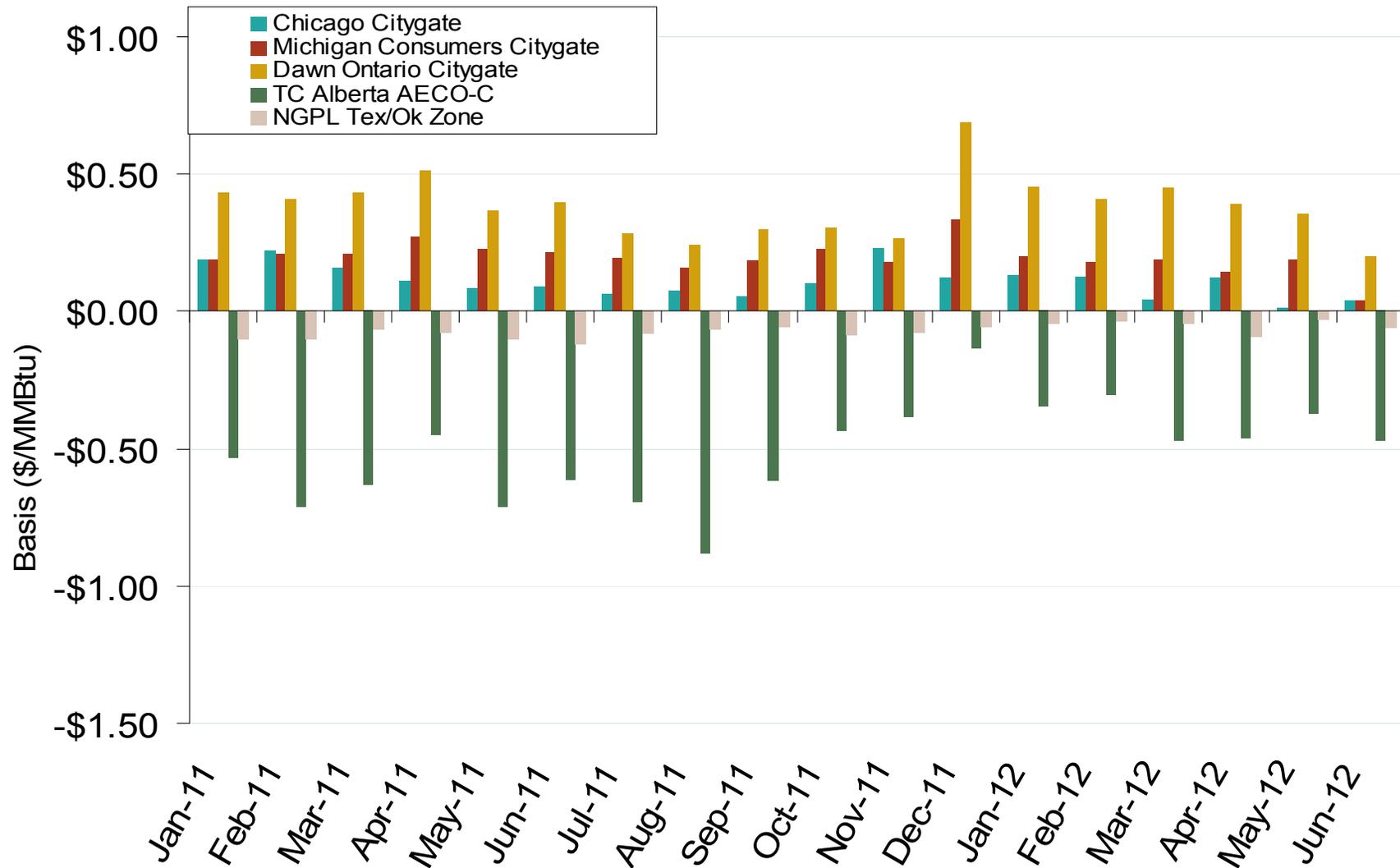
# Midwestern Day-Ahead Hub Spot Prices and Basis



Source: Derived from Platts data  
July 2012 Midwest Snapshot Report

Updated: July 06, 2012

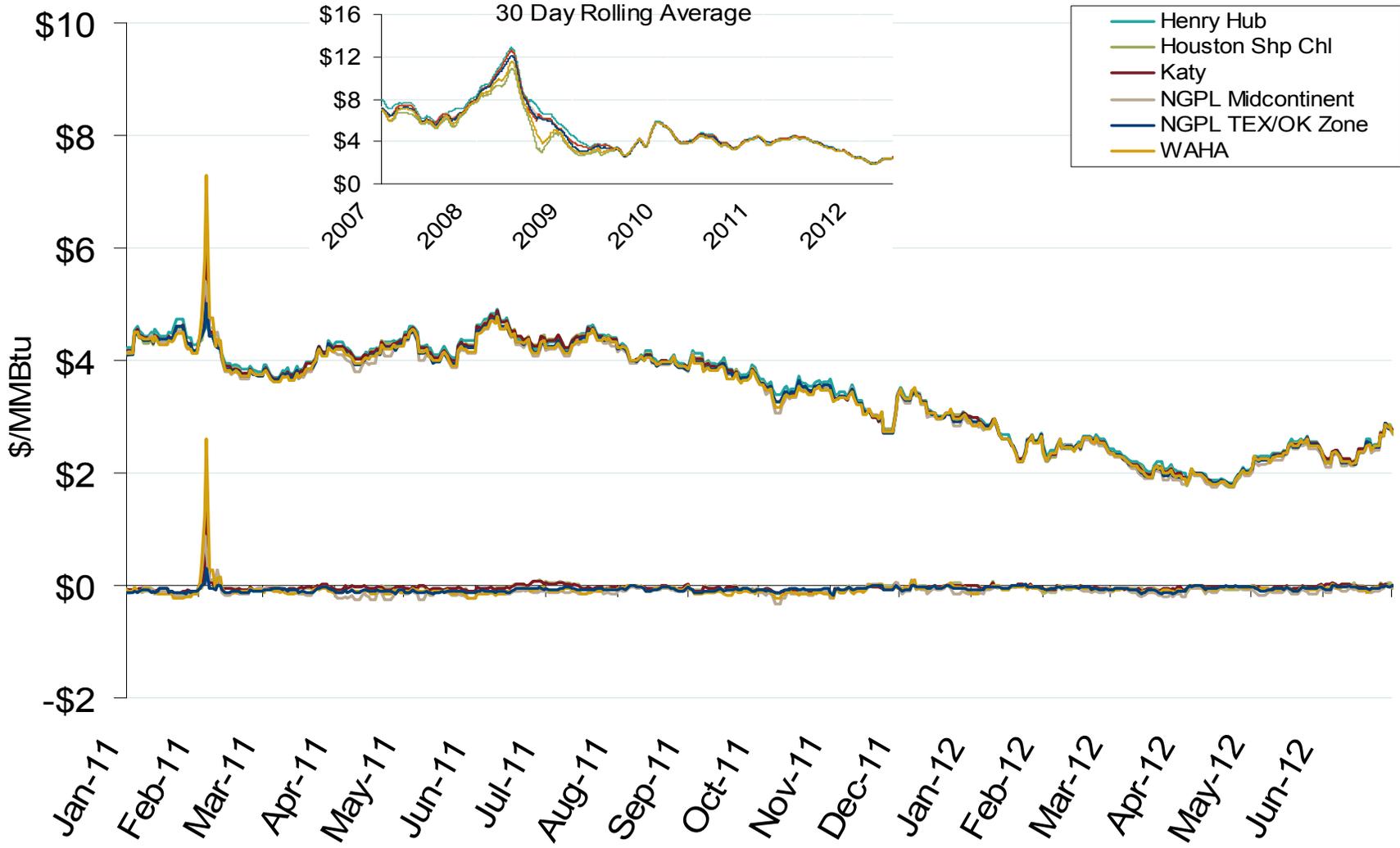
## Midwest Natural Gas Market: Average Basis to Henry Hub

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Midwestern Monthly Average Basis Value to Henry Hub**

South Central Natural Gas Market: Spot Prices and Basis

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

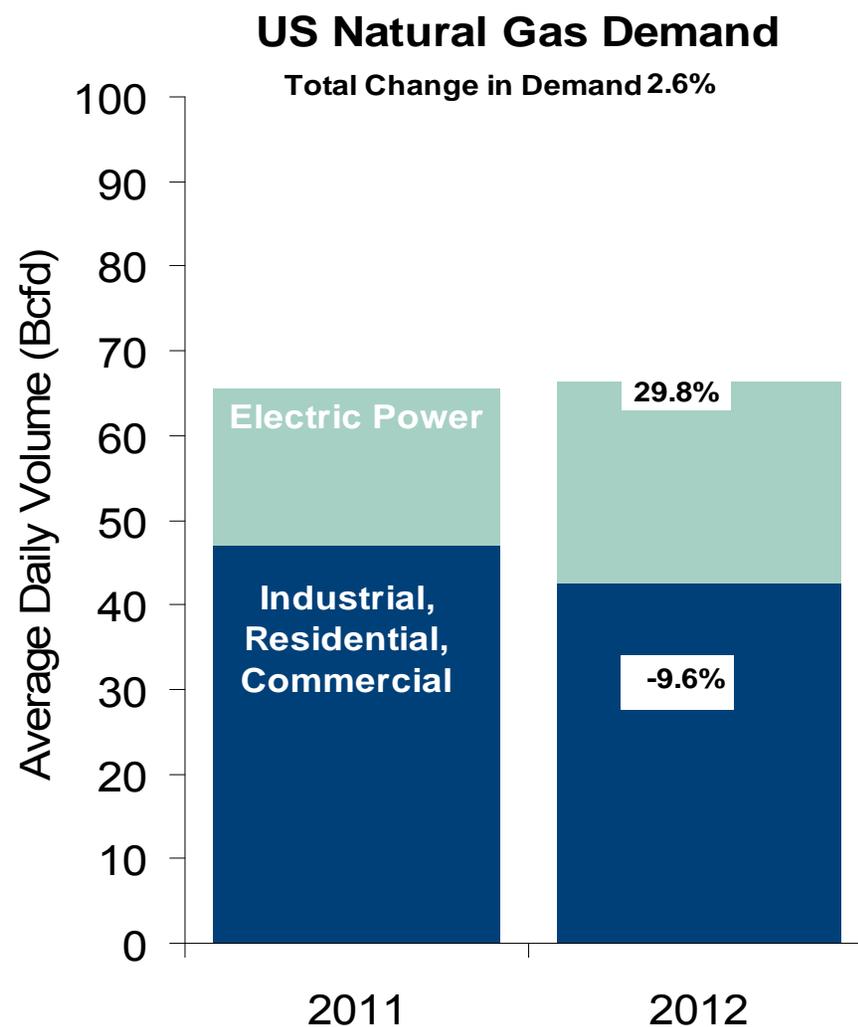
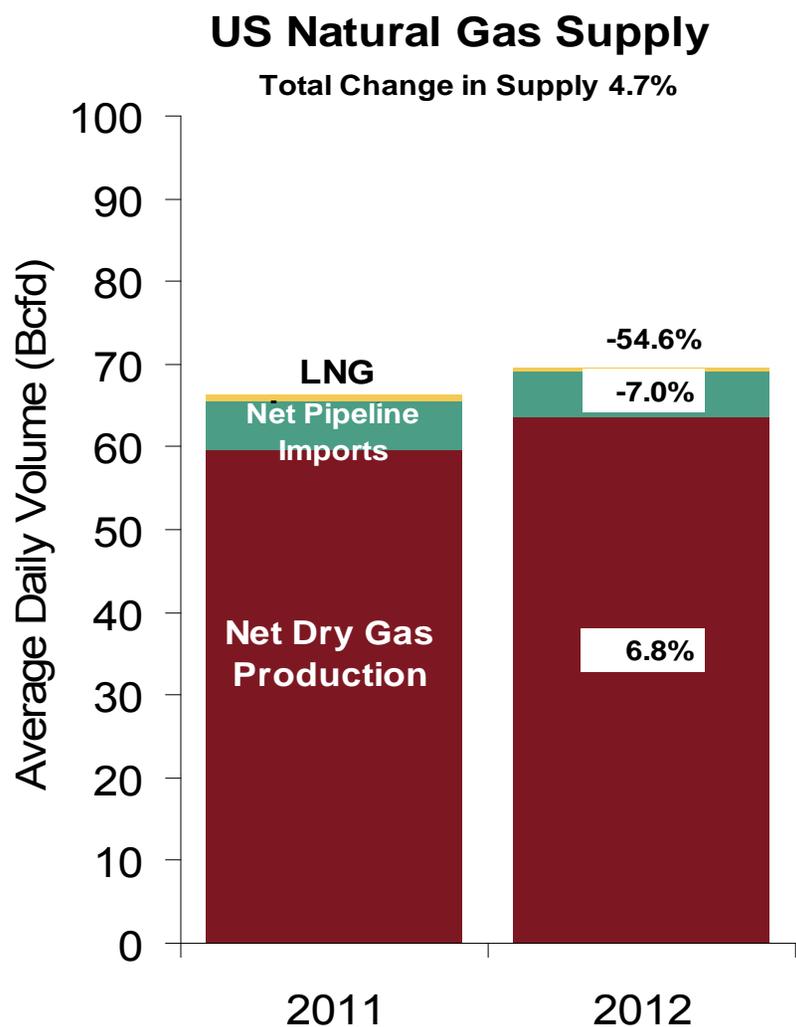
### Gulf Day-Ahead Hub Spot Prices and Basis



Source: Derived from Platts data  
July 2012 Midwest Snapshot Report

Updated: July 06, 2012

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



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

Source: Derived from *Bentek Energy* data

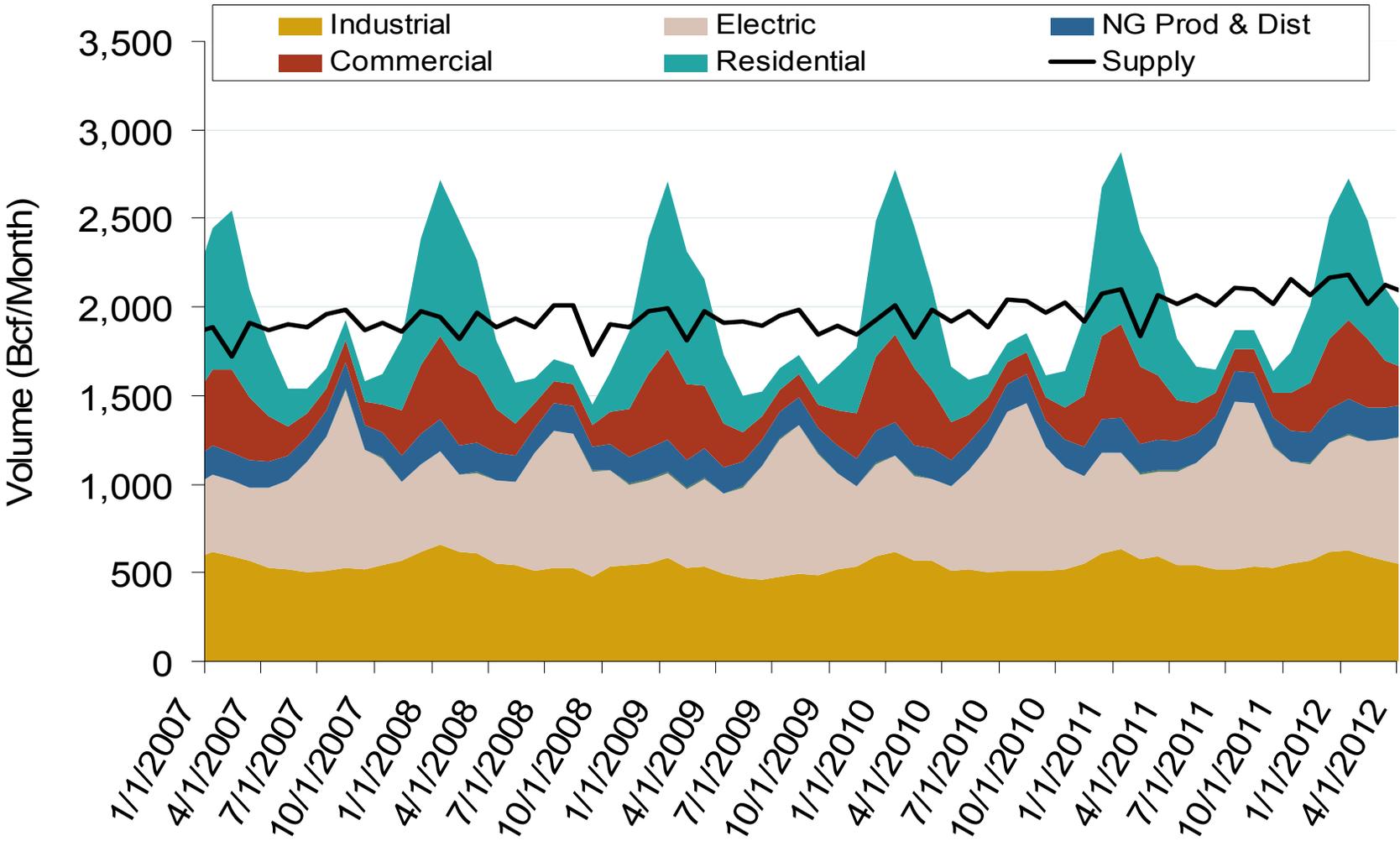
July 2012 Midwest Snapshot Report

Updated: July 11, 2012

Natural Gas market Overview: Consumption by Sector

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

### 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

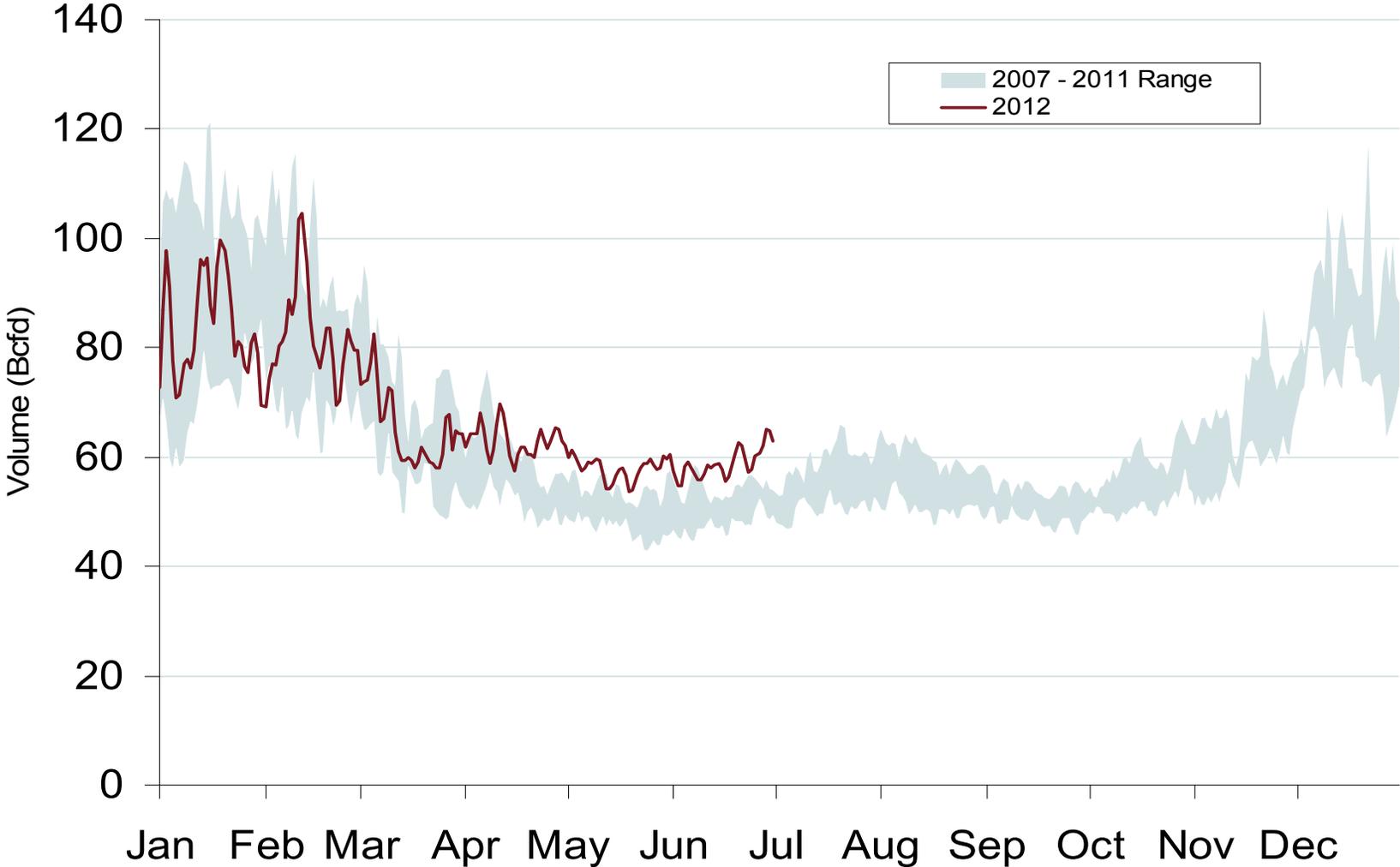
July 2012 Midwest Snapshot Report

Updated: July 12, 2012

Natural Gas Market Overview: Total US Gas Demand

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

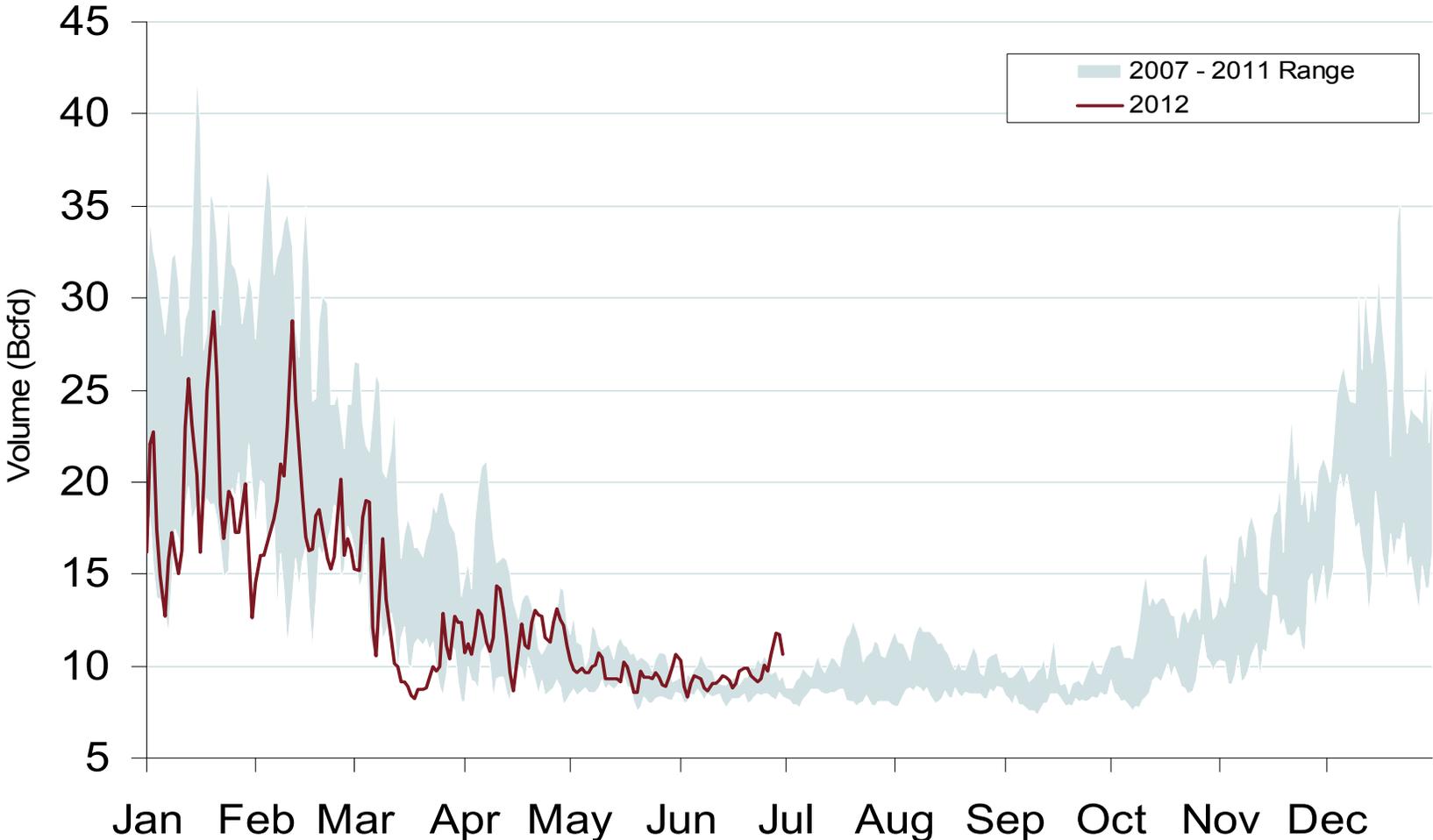
### Total U.S. Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data  
July 2012 Midwest Snapshot Report

Updated: July 17, 2012

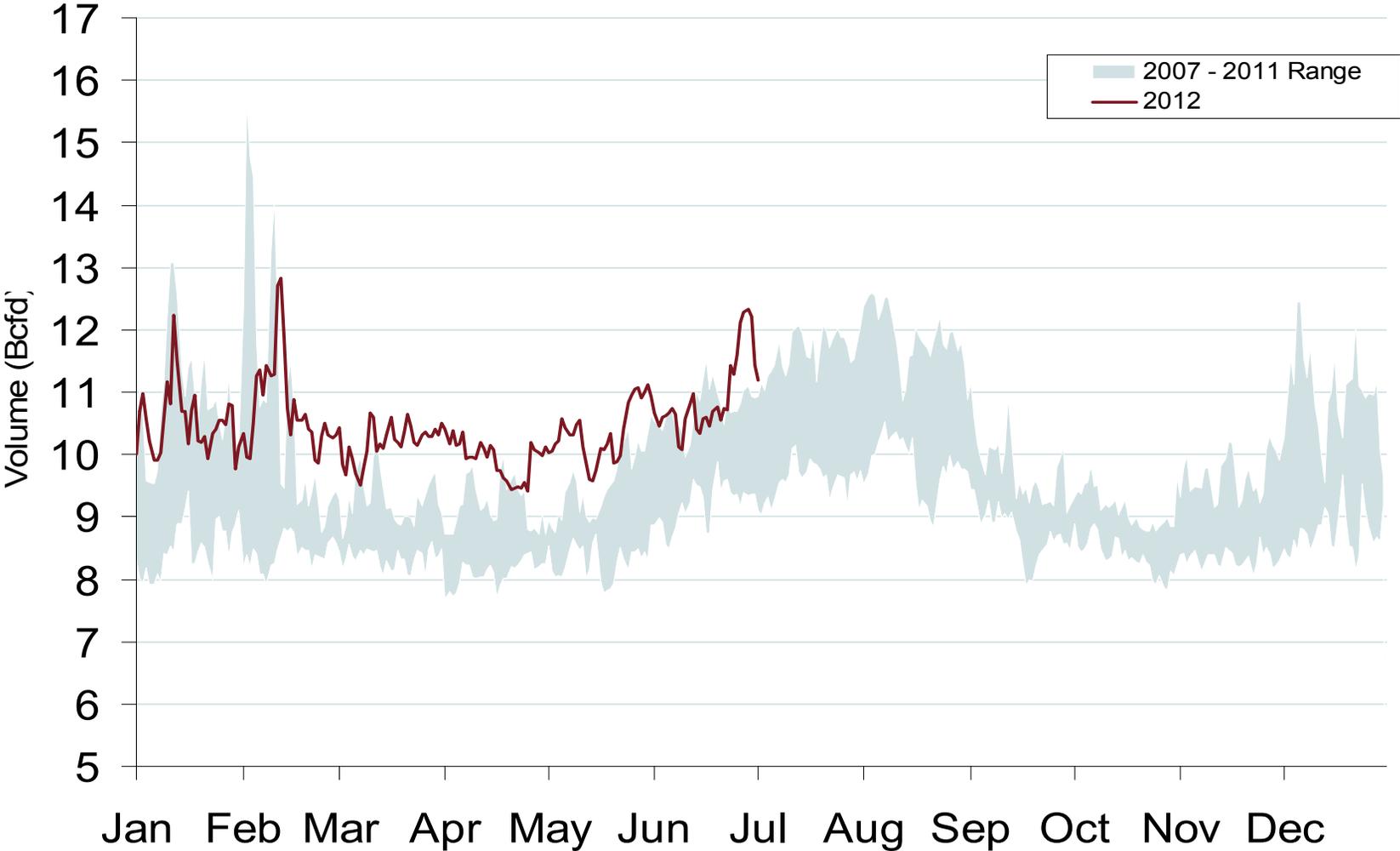
### Daily Midwest Natural Gas Demand All Sectors



Source: Derived from *Bentek Energy* data  
July 2012 Midwest Snapshot Report

Updated: July 17, 2012

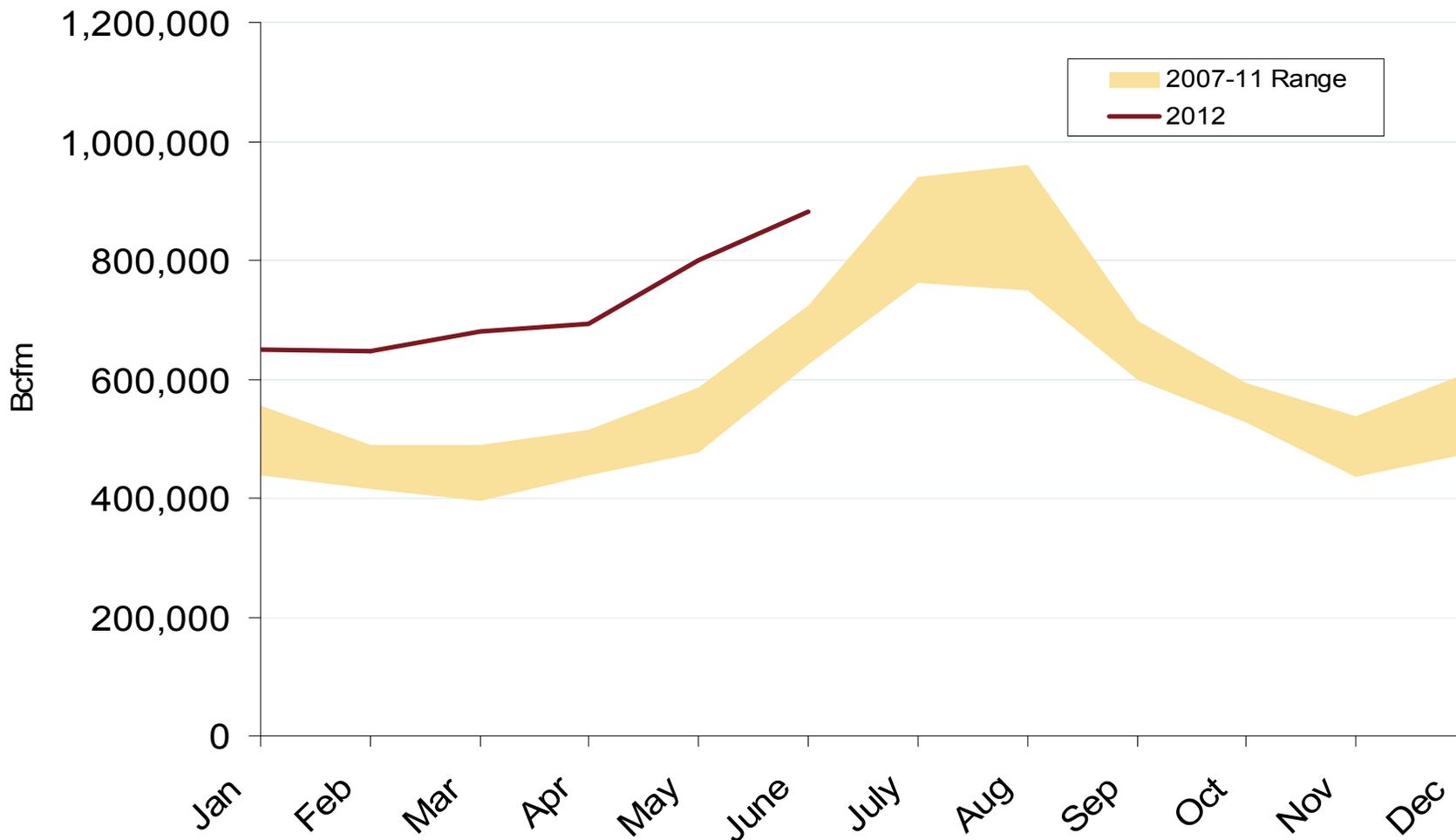
### Daily Gulf Natural Gas Demand All Sectors



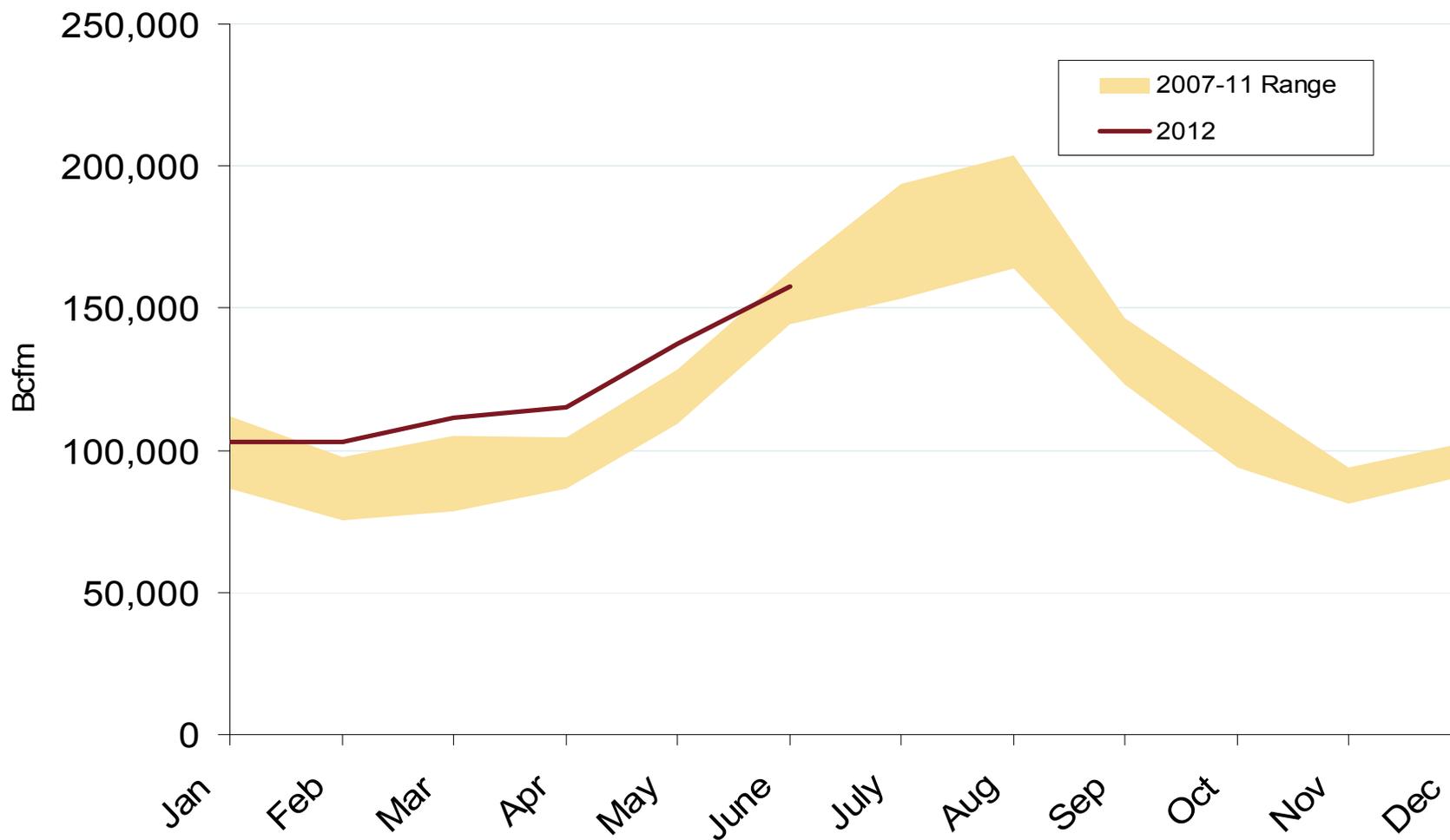
Natural Gas Market Overview: NG Consumption for Power Generation

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

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



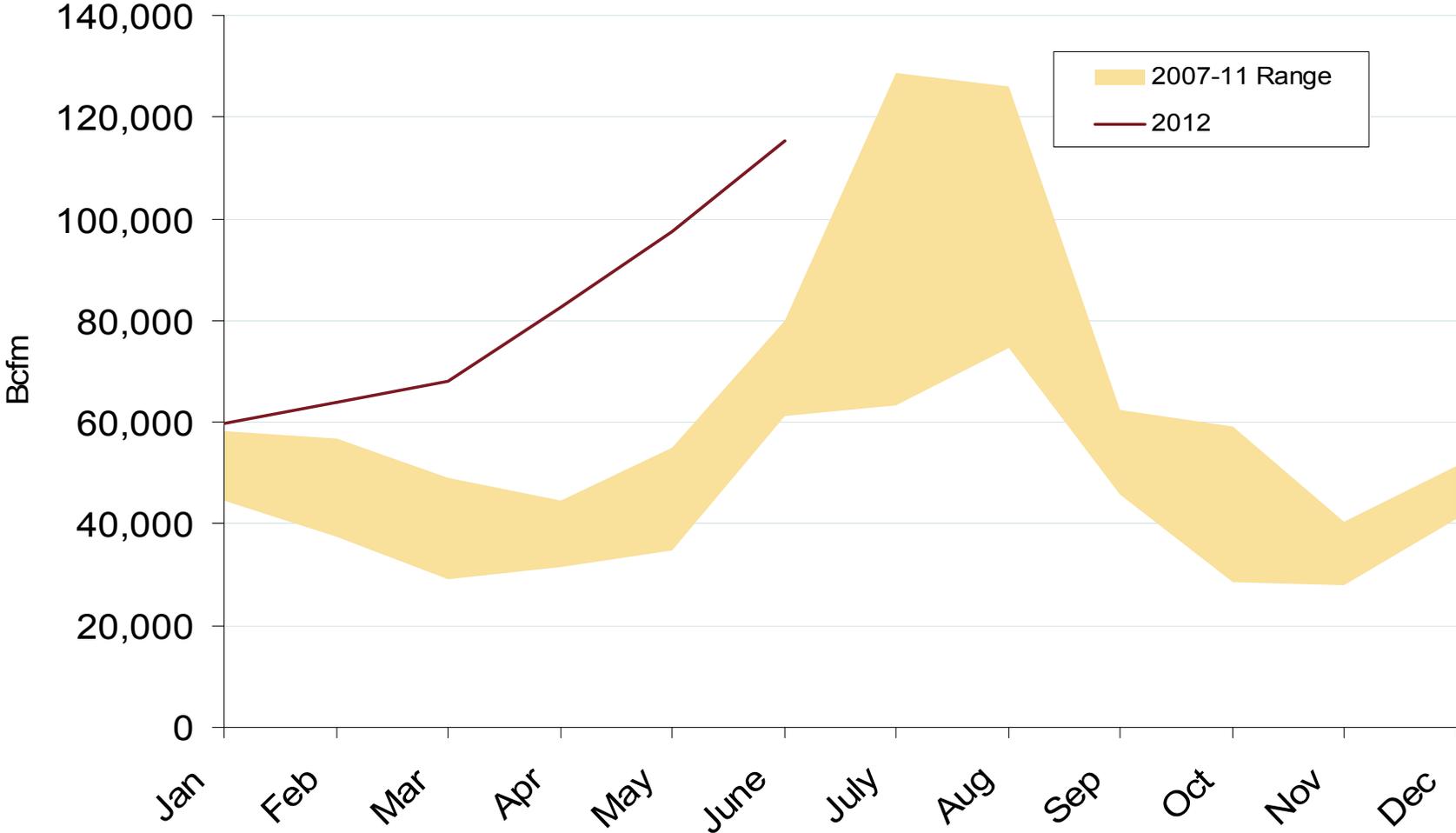
## Gulf Natural Gas Consumption for Power Generation



Midwest Natural Gas Market: NG Consumption for Power Generation

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

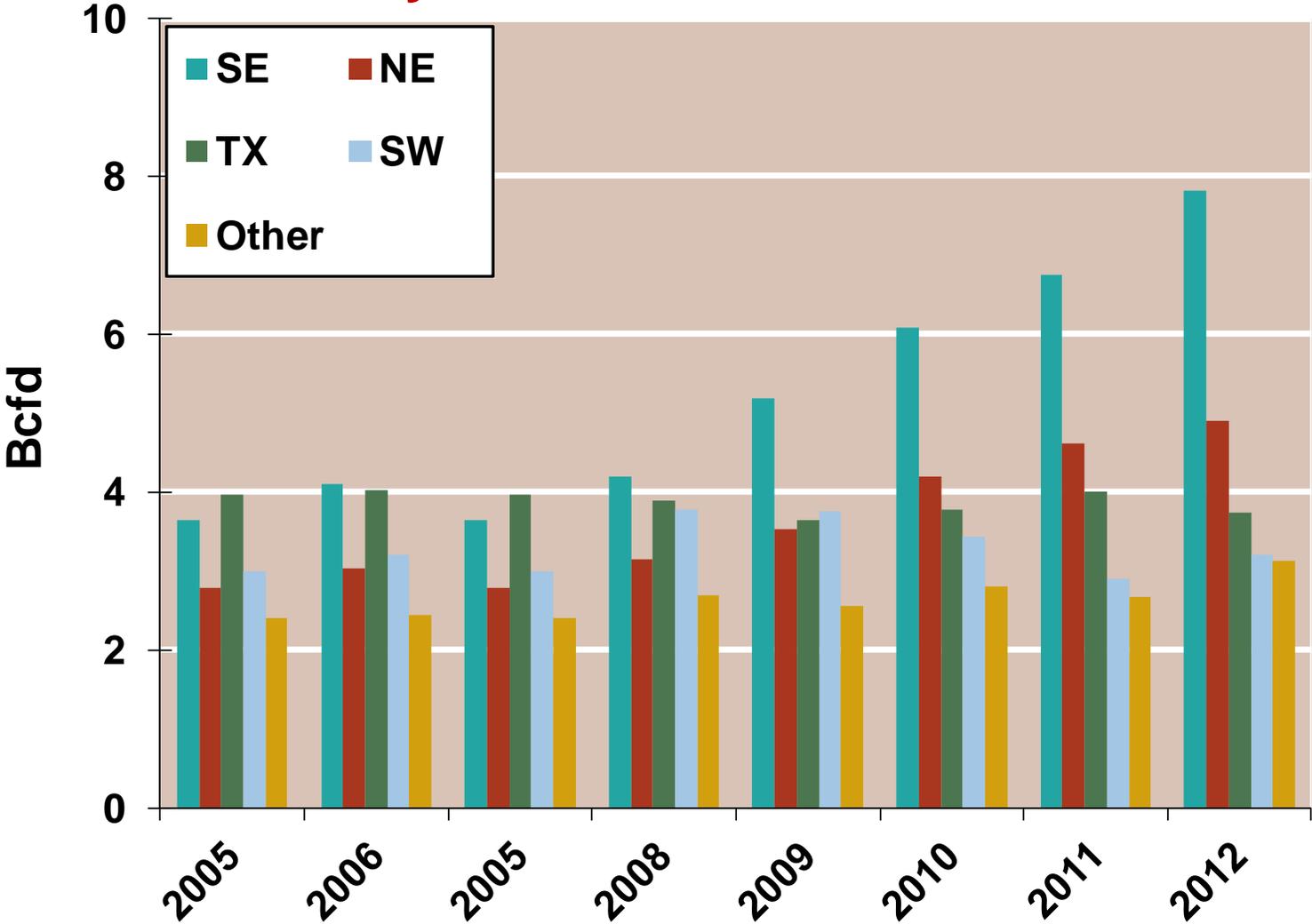
# Midwest Natural Gas Consumption for Power Generation



Source: Derived from *Bentek Energy* data  
July 2012 Midwest Snapshot Report

Updated: July 11, 2012

# The Southeast Drives Gas Power Burn by U.S. Power Generators



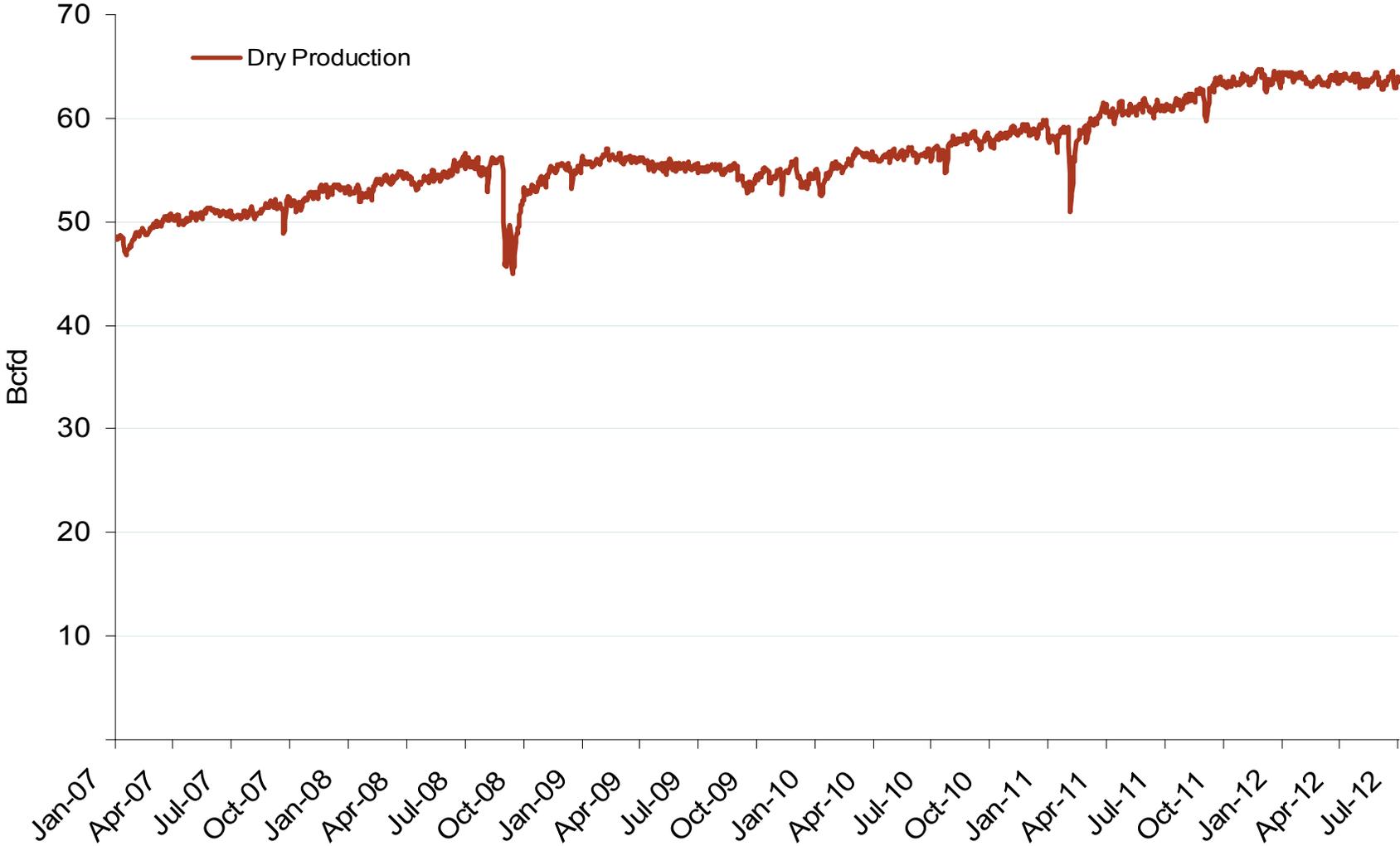
Source: Derived from Bentek Energy data.

Updated June 2012

Natural Gas Markets: Monthly U.S. Dry Gas Production

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

# 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

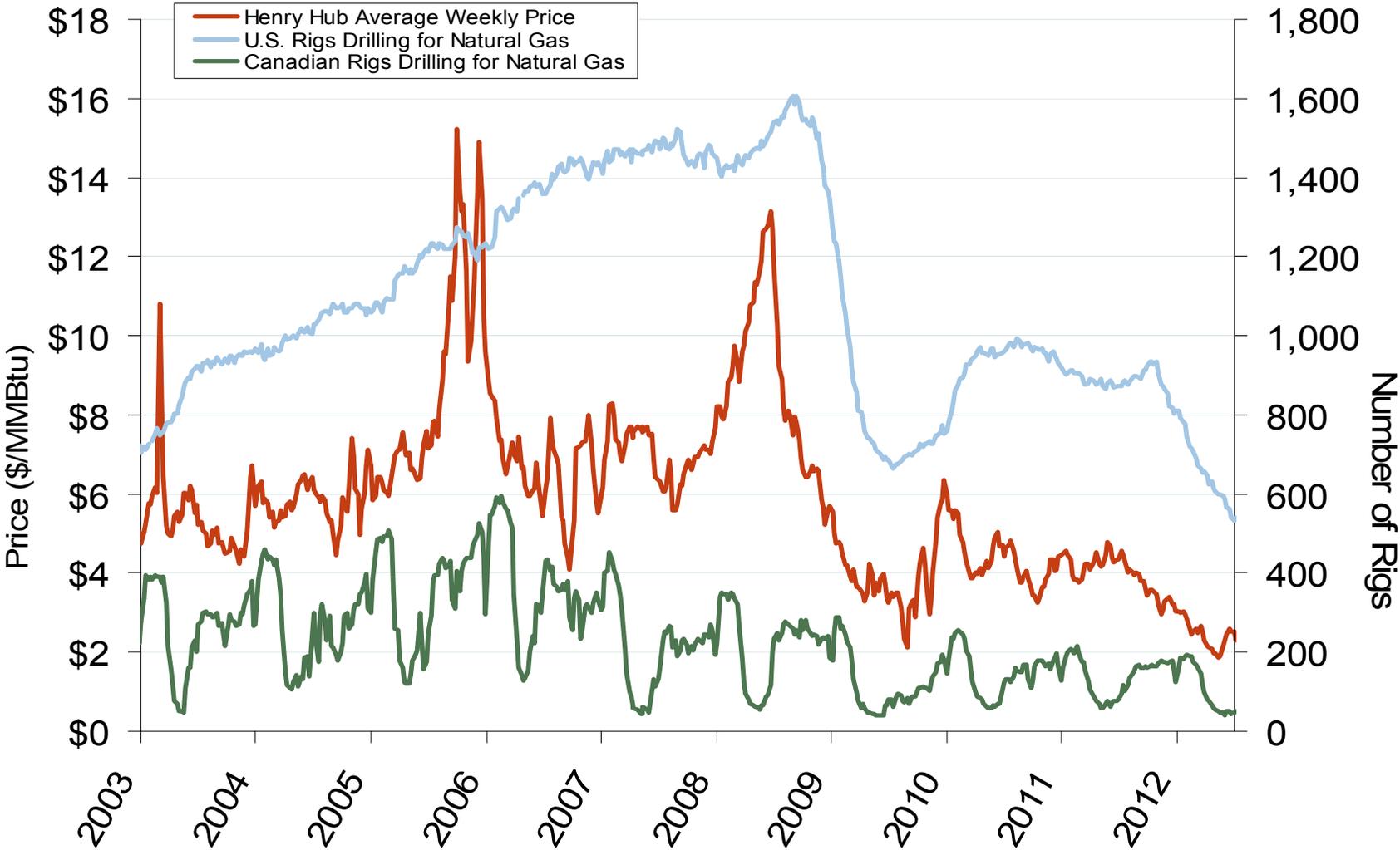
July 2012 Midwest Snapshot Report

Updated: July 11, 2012

Natural Gas Market Overview: Drilling Rig Count

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

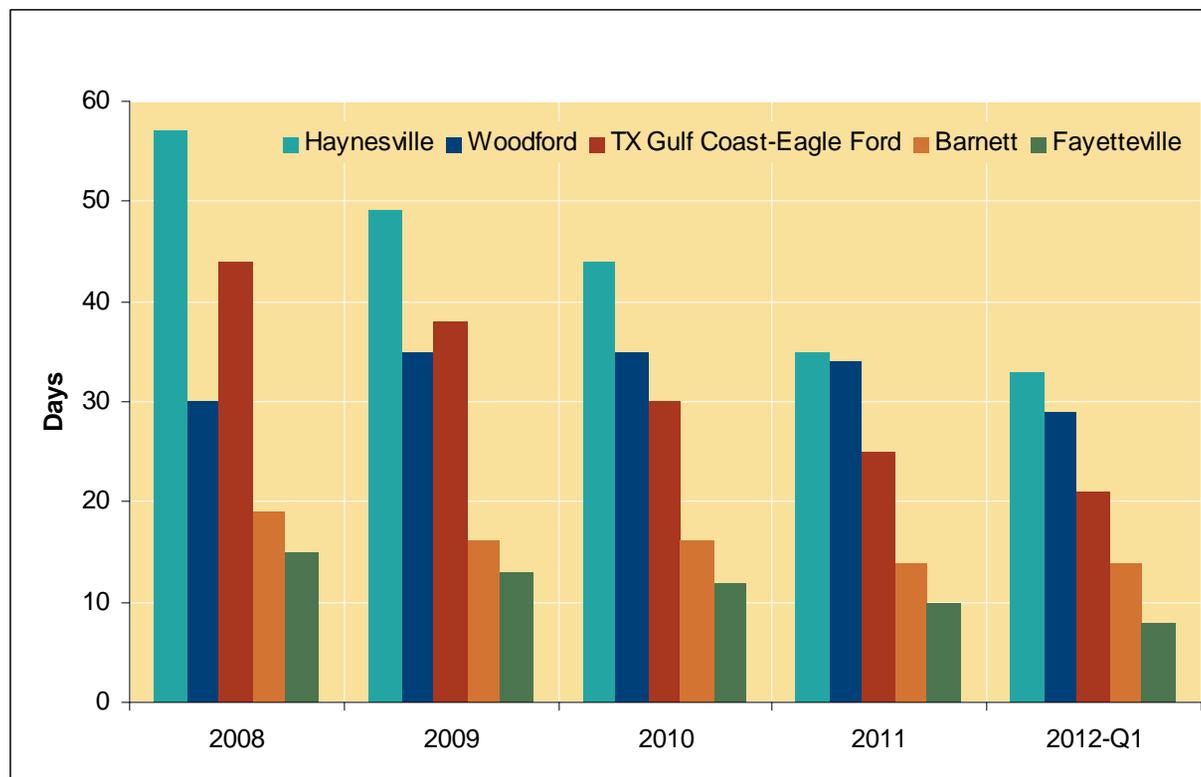
# U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data  
July 2012 Midwest Snapshot Report

Updated: July 17, 2012

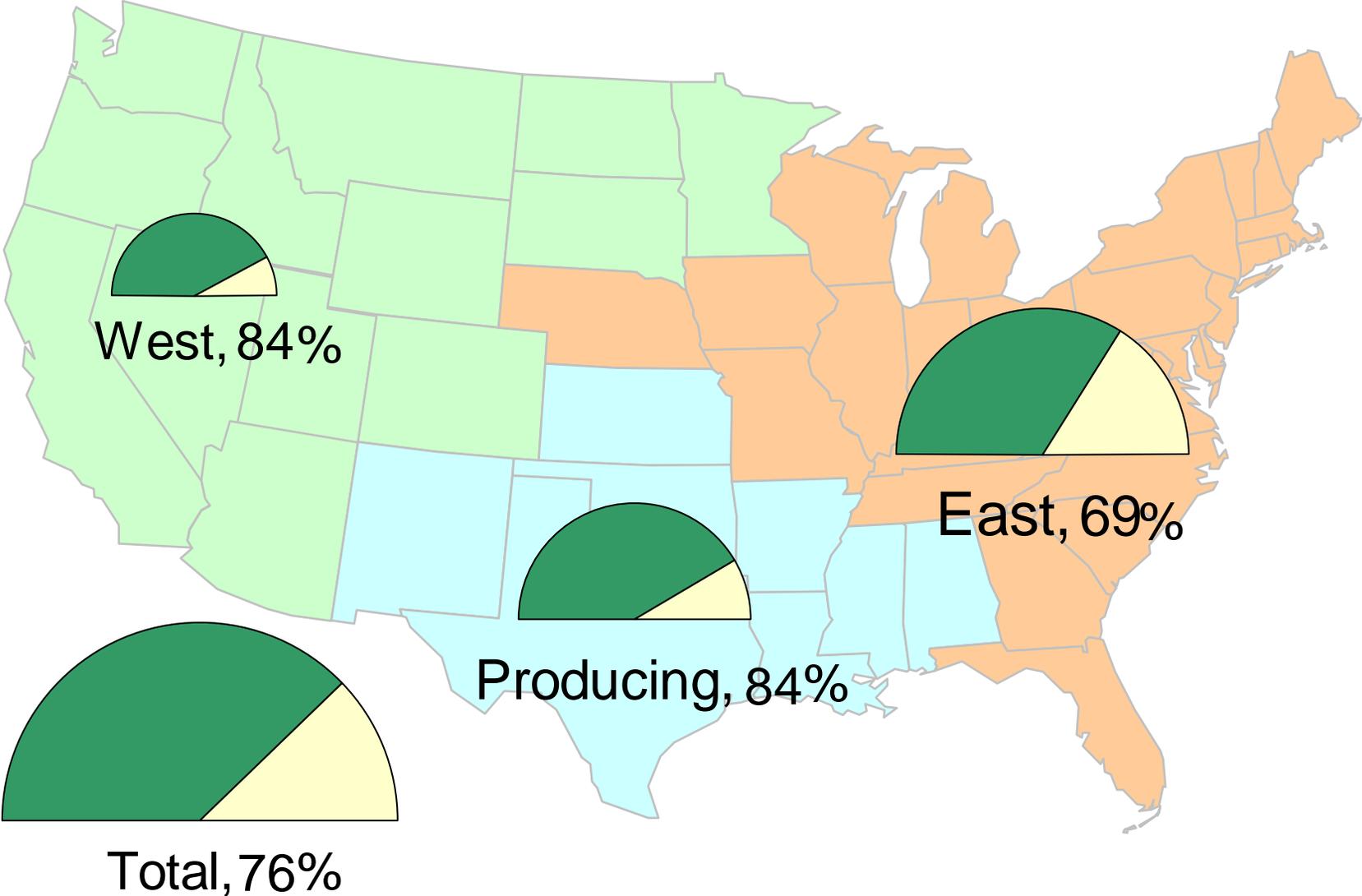
## Well Drill Times Continue to Decline



Source: Derived from Bentek Southeast/Gulf Production Monitor

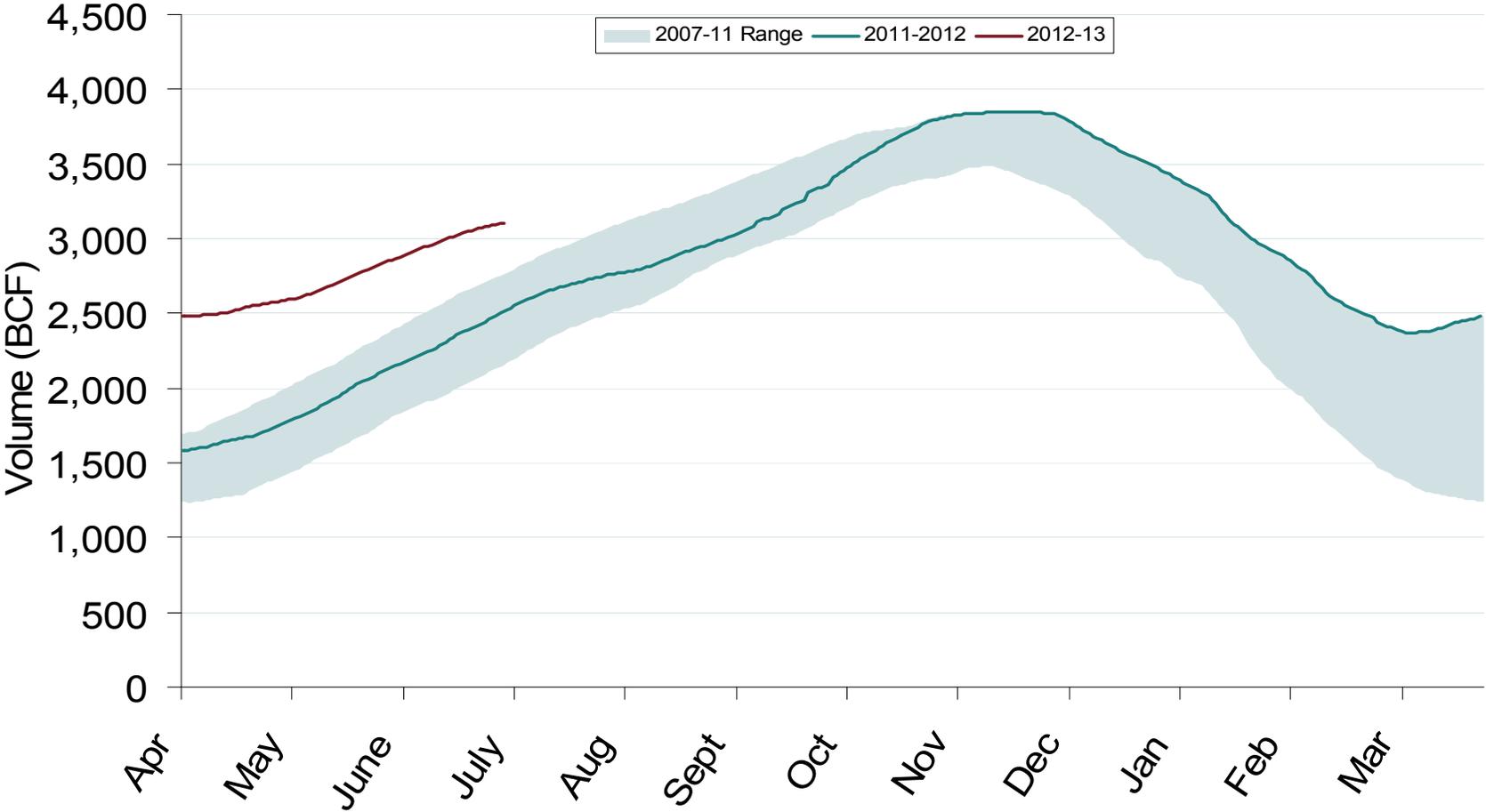
Updated March 5, 2010

# Natural Gas Storage Inventories – July 6, 2012



Source: Derived from EIA Storage and Estimated Working Gas Capacity data  
July 2012 Midwest Snapshot Report

### Total U.S. Working Gas in Storage



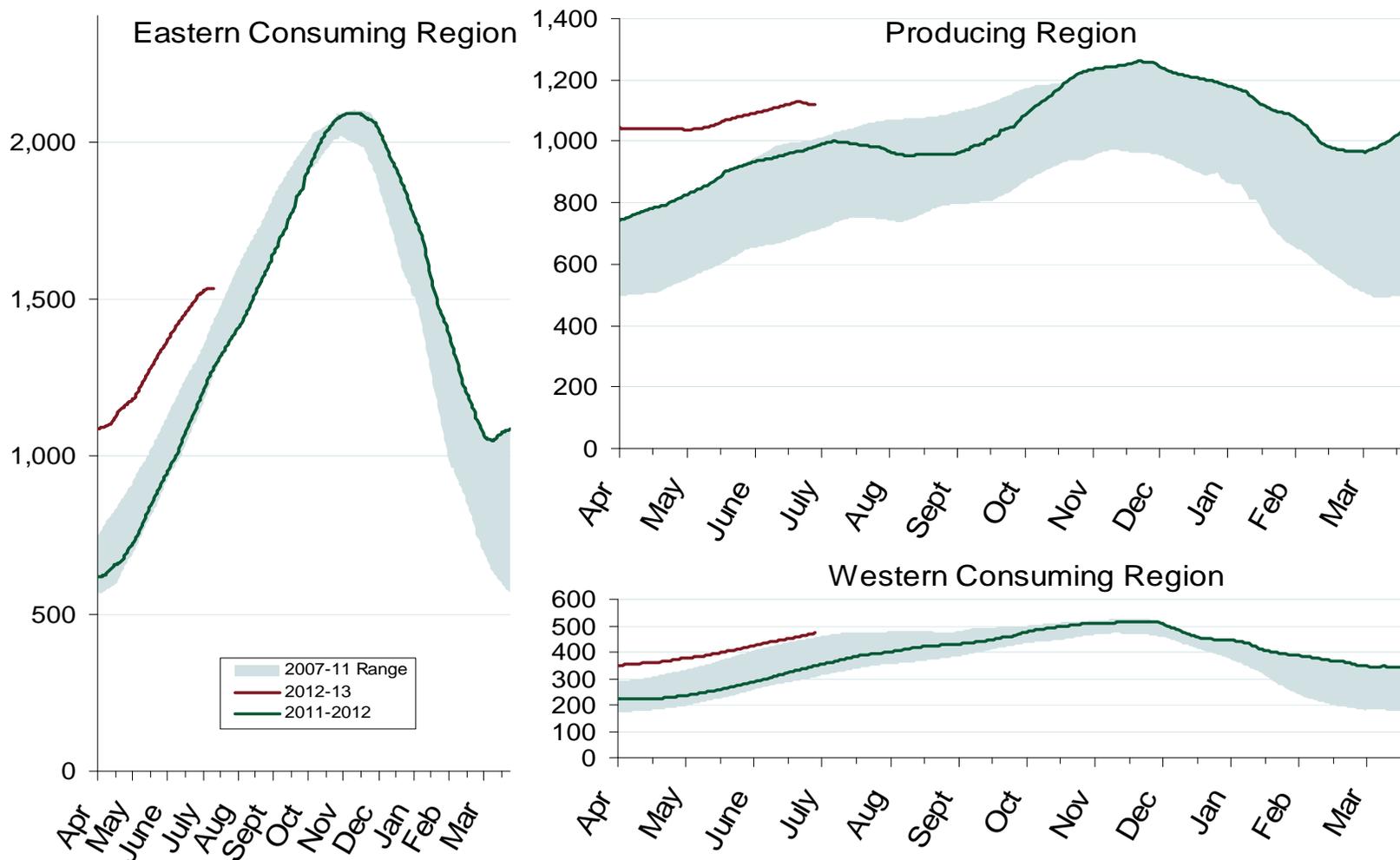
Source: Derived from EIA data  
July 2012 Midwest Snapshot Report

Updated: July 12, 2012

Natural Gas Market Overview: Regional Storage

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

## Regional Totals of Working Gas in Storage



## Natural Gas Overview: World LNG Prices

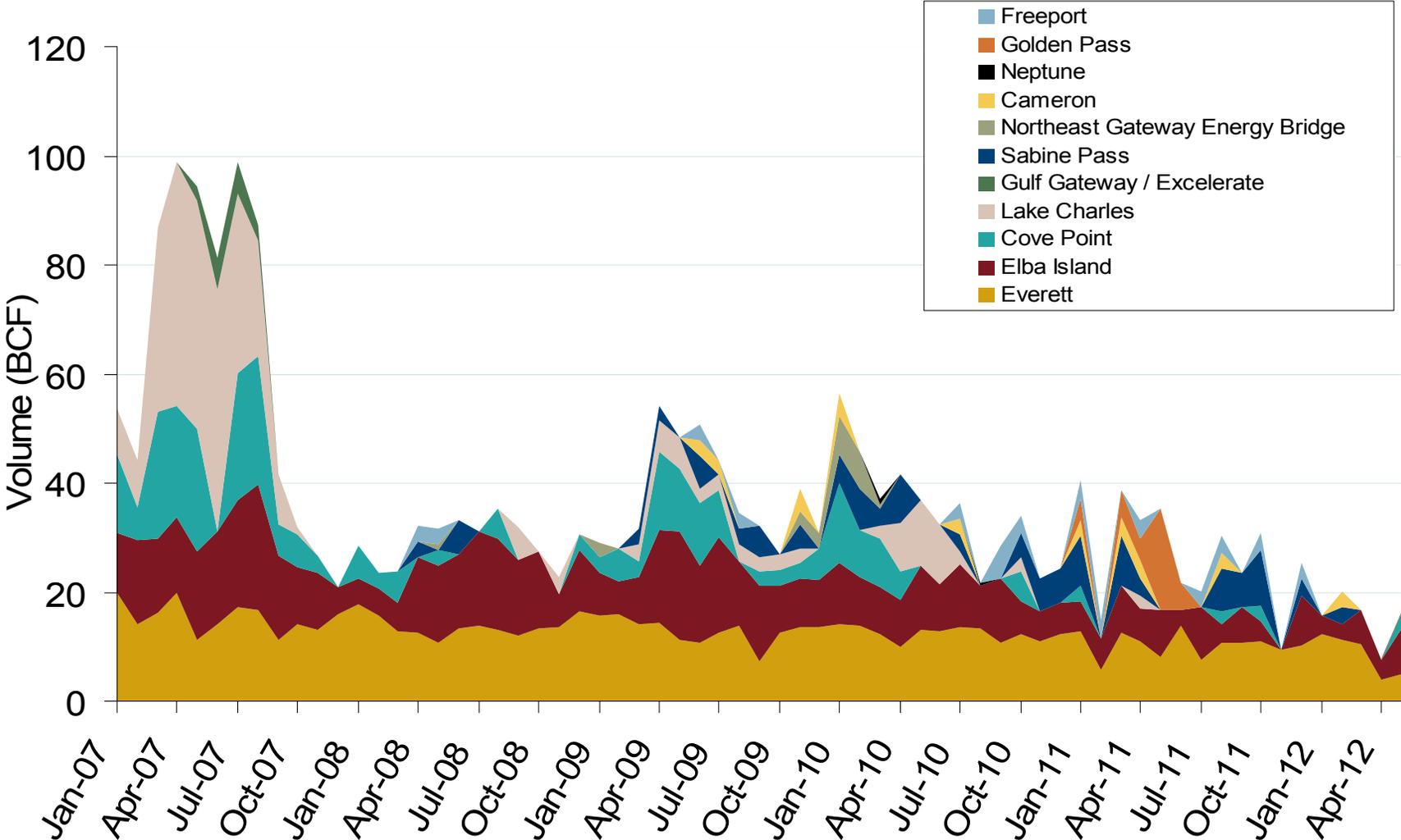
Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**World LNG Estimated August 2012 Landed Prices**

Source: Waterborne Energy, Inc. Data in \$US/MMBtu

July 2012 Midwest Snapshot Report

Updated: July 11, 2012

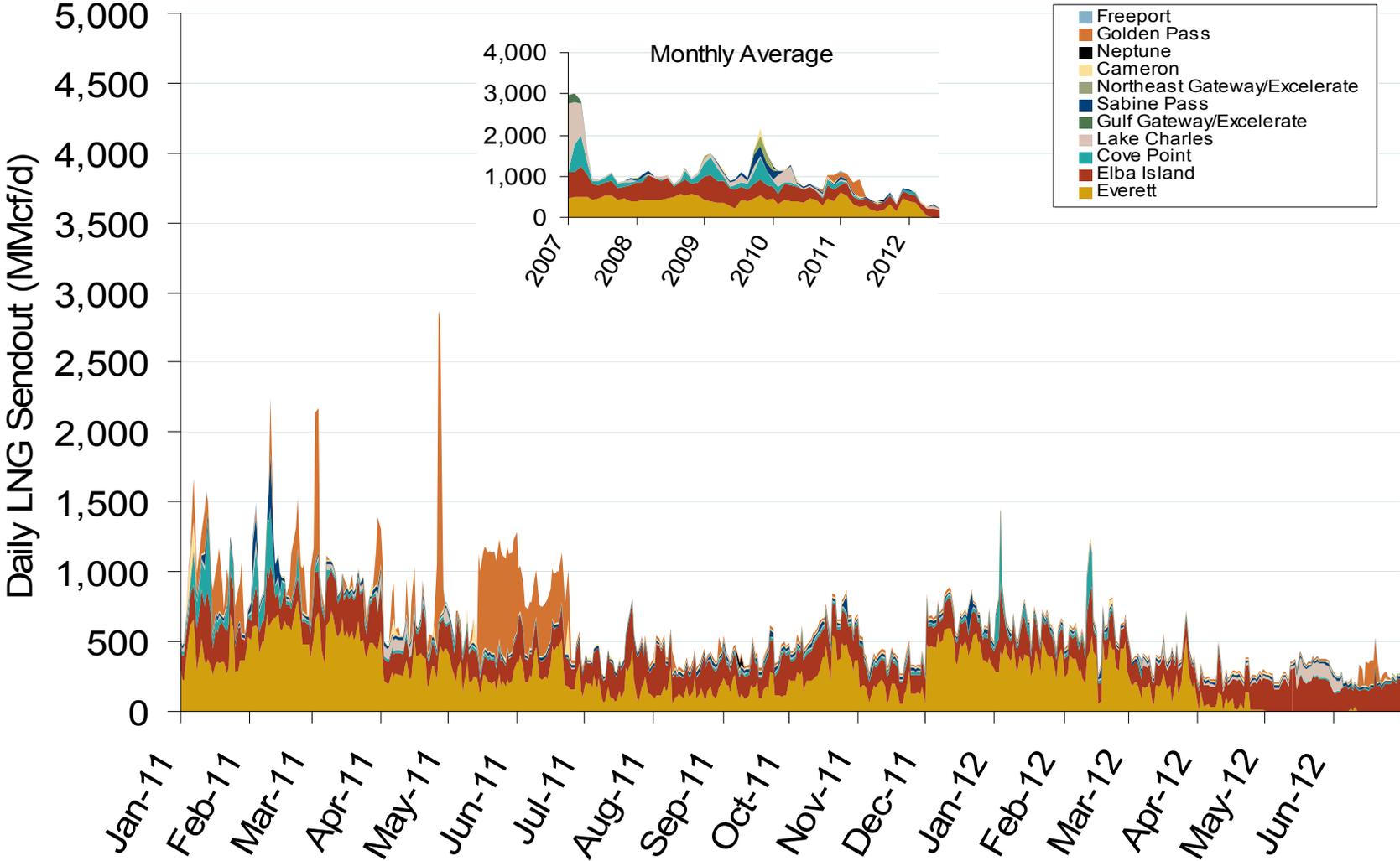
# Monthly Gas Imports at Existing U.S. LNG Facilities



Source: Derived from DOE Office of Fossil Energy data  
July 2012 Midwest Snapshot Report

Updated: July 12, 2012

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



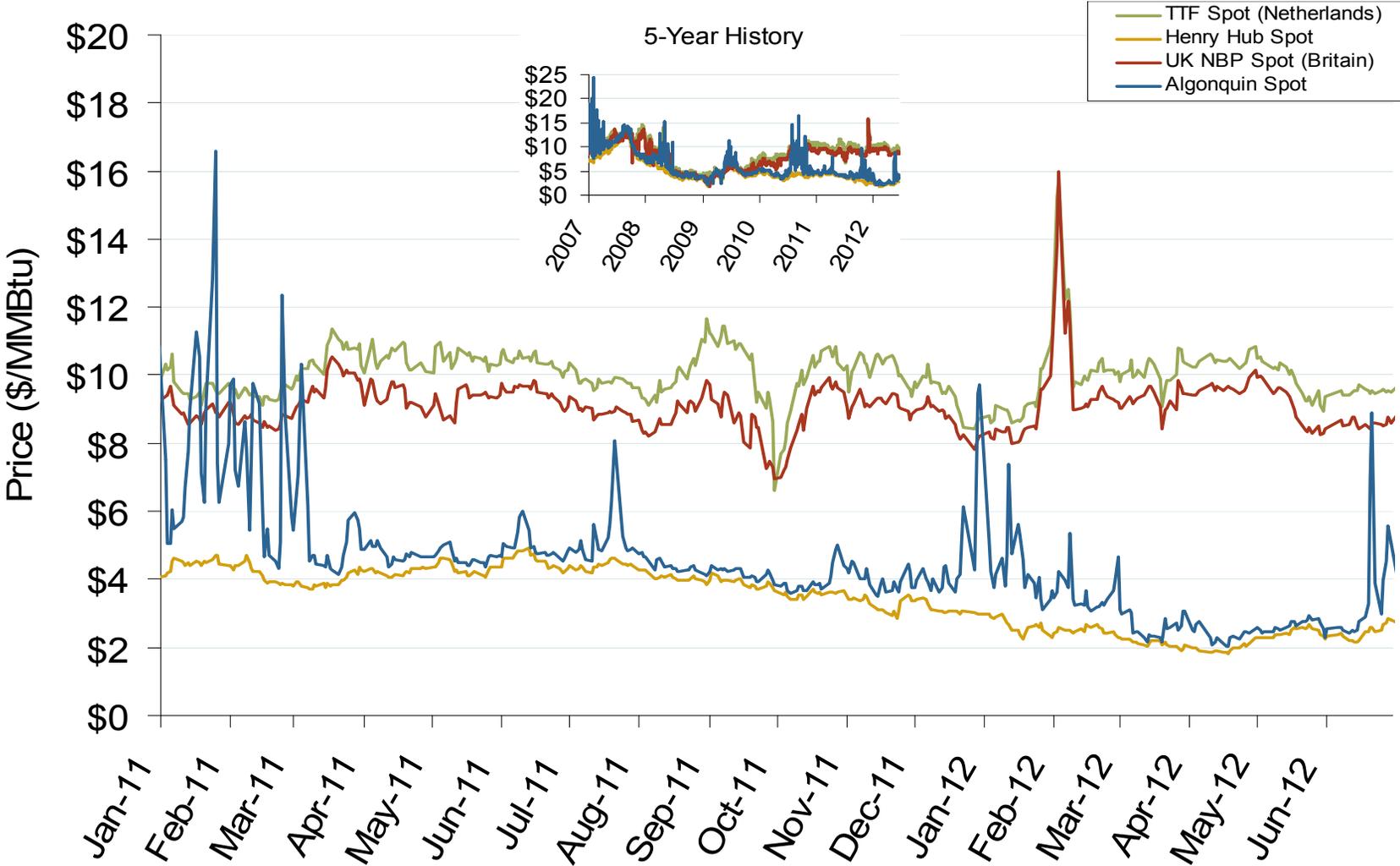
Notes: Everett data includes flows onto the AGT and TGP interstate lines, plus estimates of flows to the Mystic 7 power plant, Keyspan Boston Gas, and LNG trucked out of the terminal. Excludes Freeport LNG which flows via intrastate pipelines

Source: Derived from Bentek Energy data

July 2012 Midwest Snapshot Report

Updated: July 11, 2012

# Atlantic Basin European and US Spot Natural Gas Prices



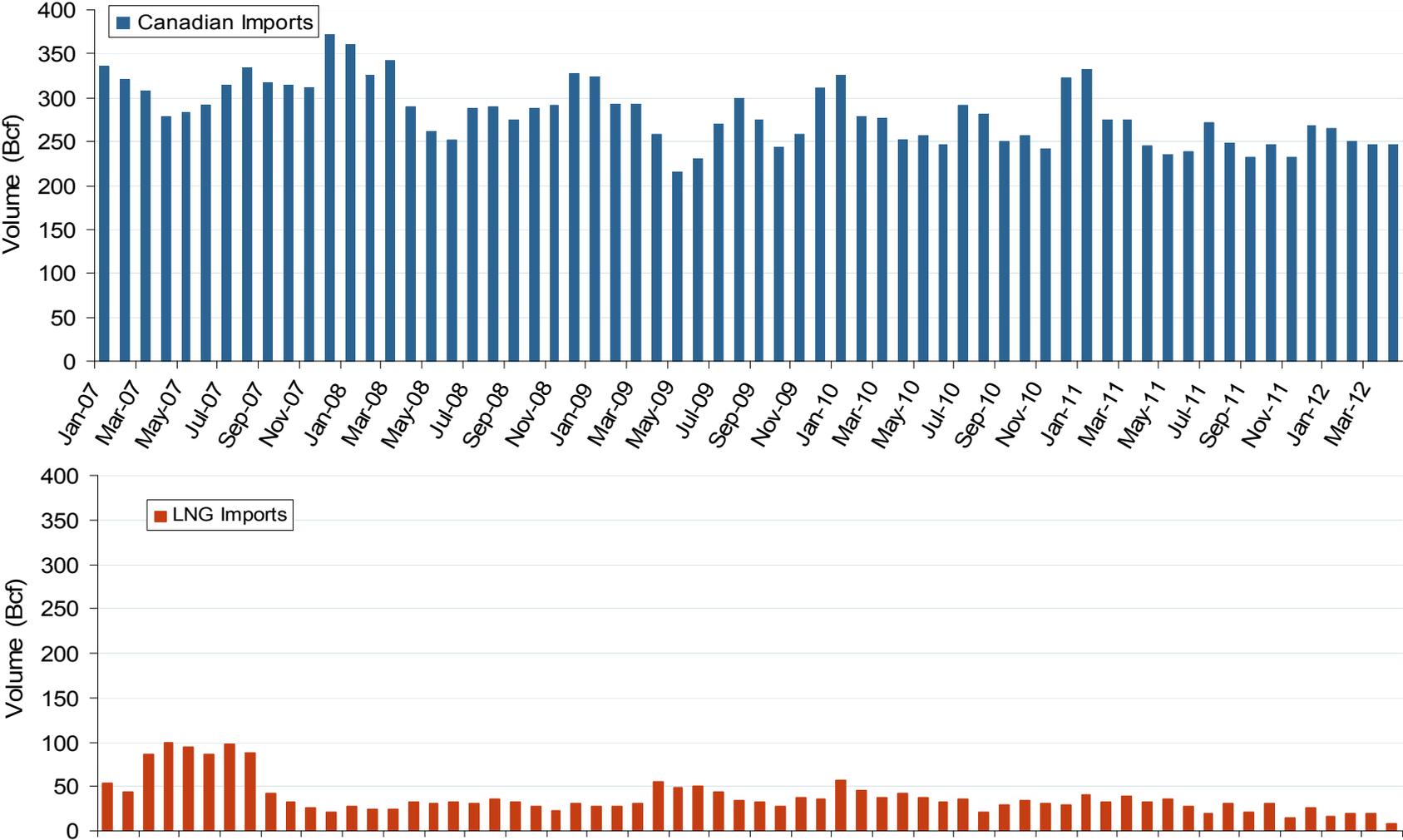
Source: Derived from Bloomberg and ICE data  
July 2012 Midwest Snapshot Report

Updated: July 13, 2012

Natural Gas Overview: Natural Gas Imports

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

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



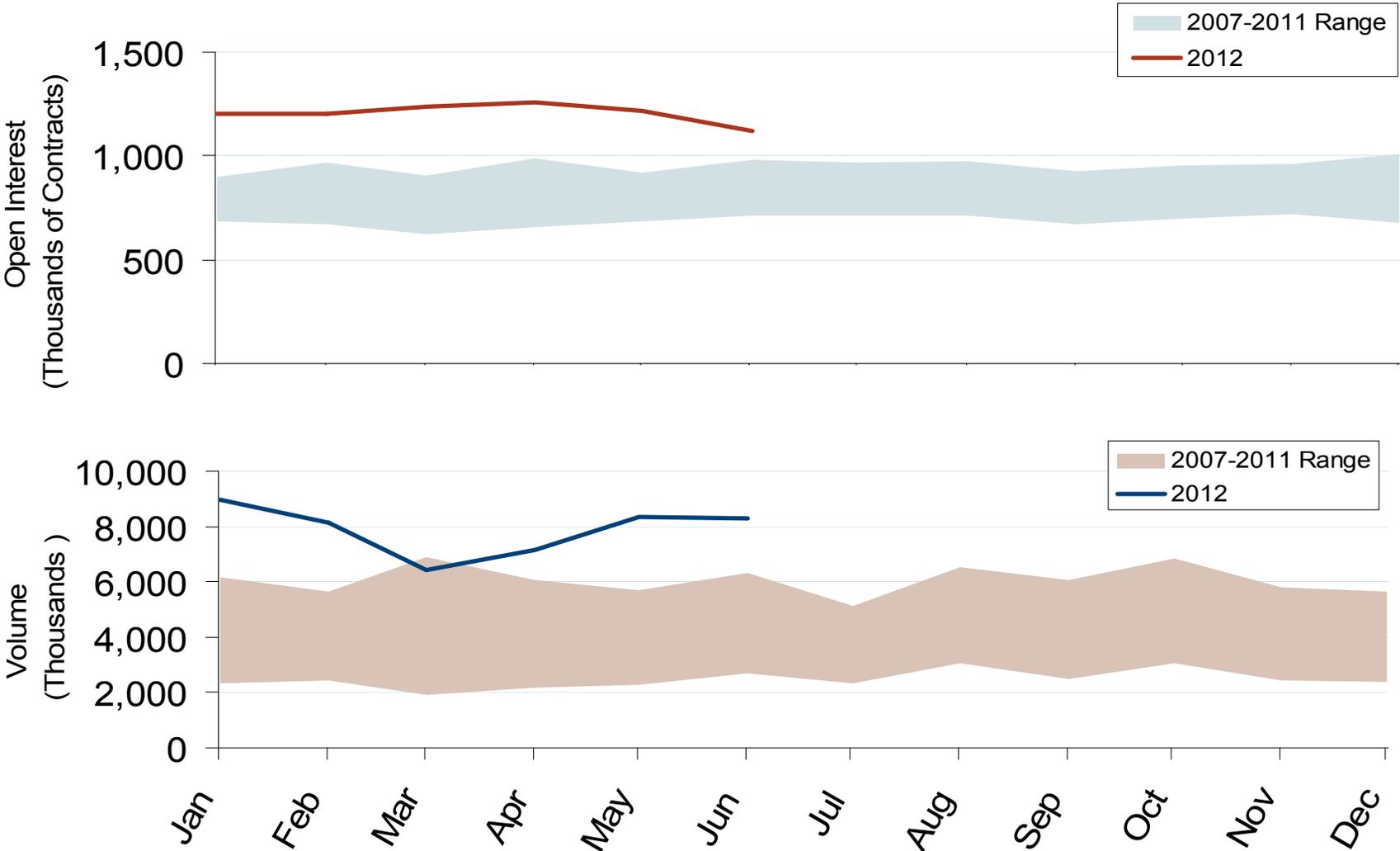
Source: EIA Natural Gas Monthly  
July 2012 Midwest Snapshot Report

Updated: July 12, 2012

Natural Gas Trading: Futures Open Interest and Volume

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

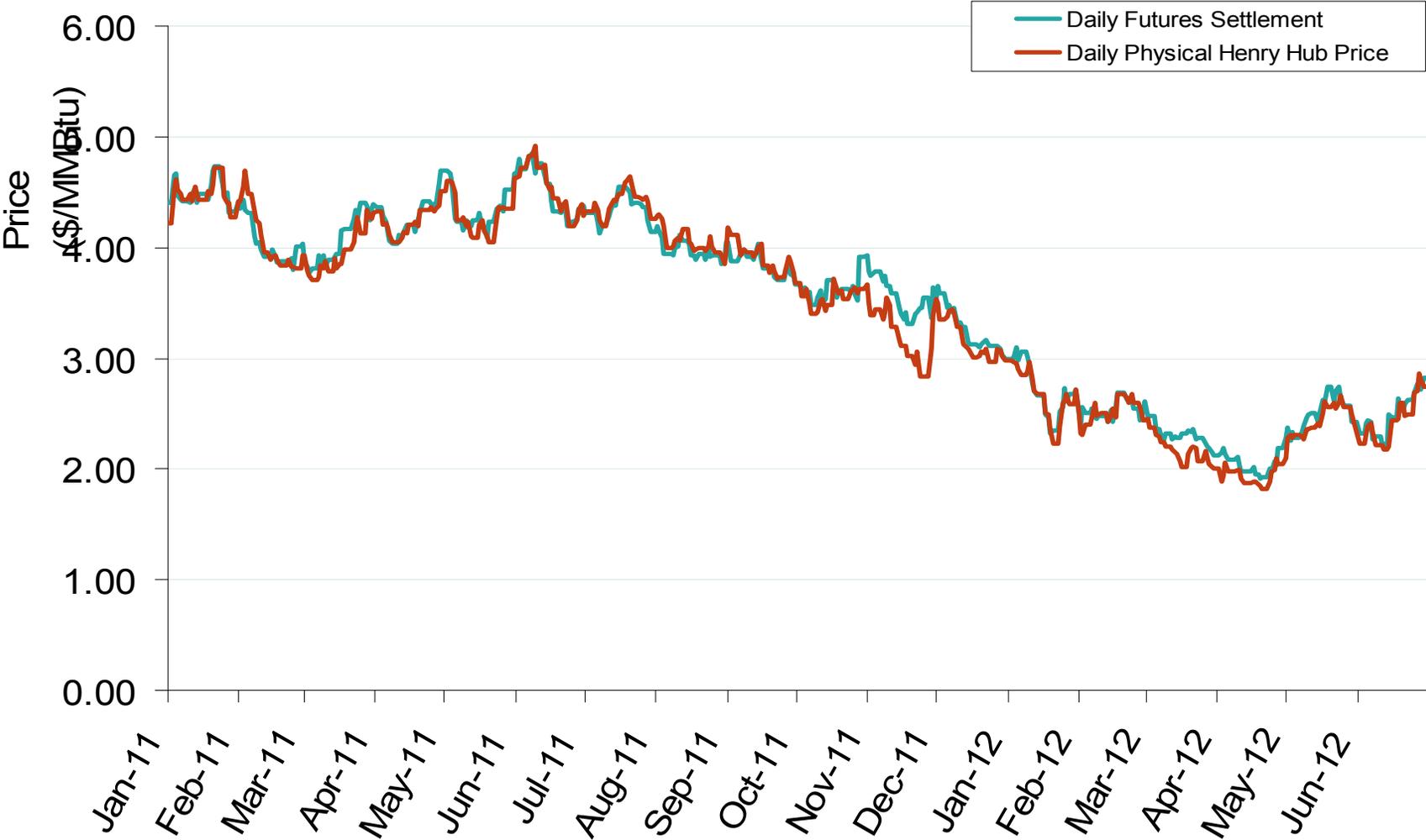
# Nymex NG Futures Month-End Open Interest and Monthly Volume



Source: Derived from Nymex data  
July 2012 Midwest Snapshot Report

Updated: July 16, 2012

### Daily Physical Index Price & Daily Futures Settlement Price



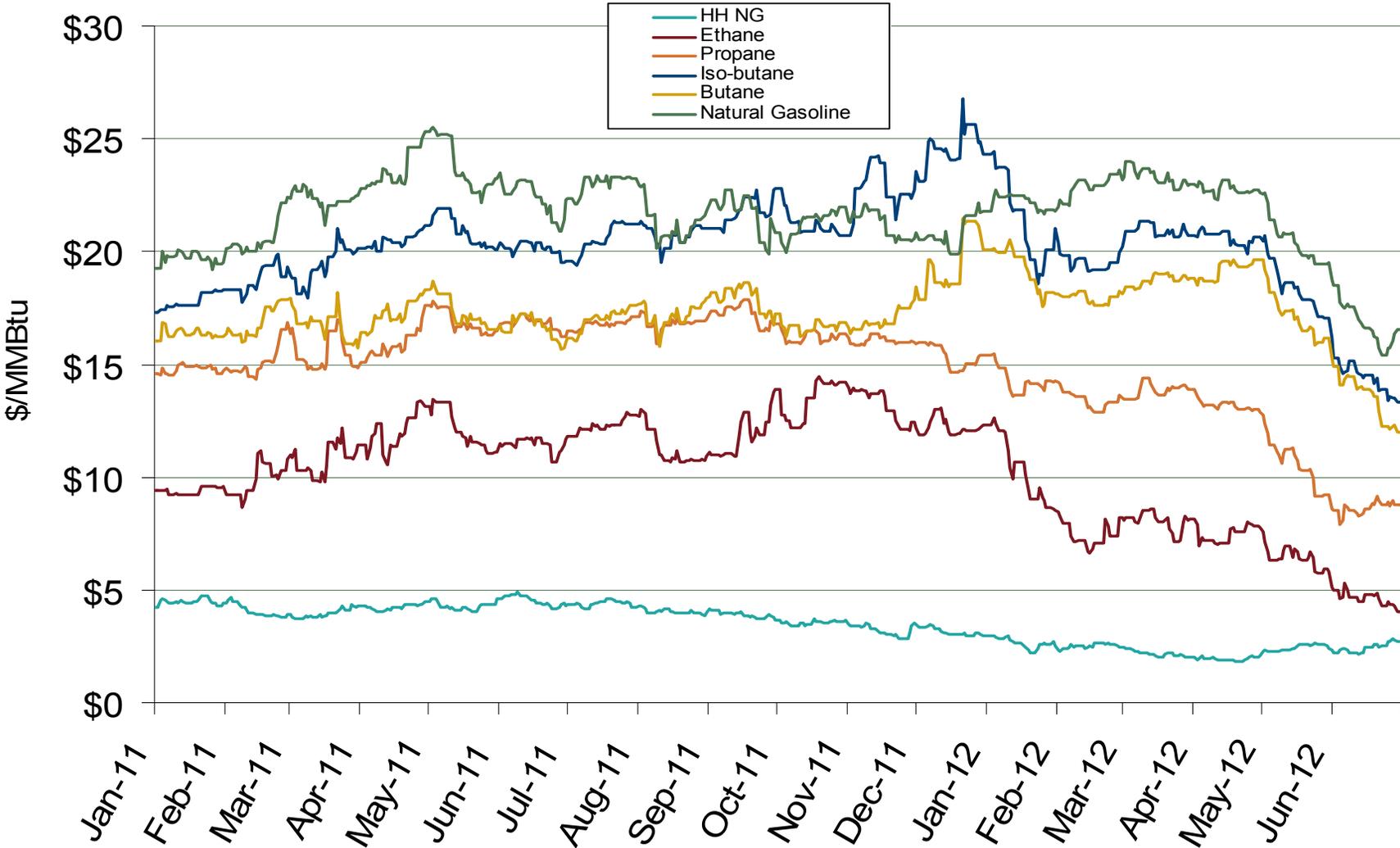
Source: Derived from *Bloomberg* data  
July 2012 Midwest Snapshot Report

Updated: July 13, 2012

Natural Gas Market Overview: NGL Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

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



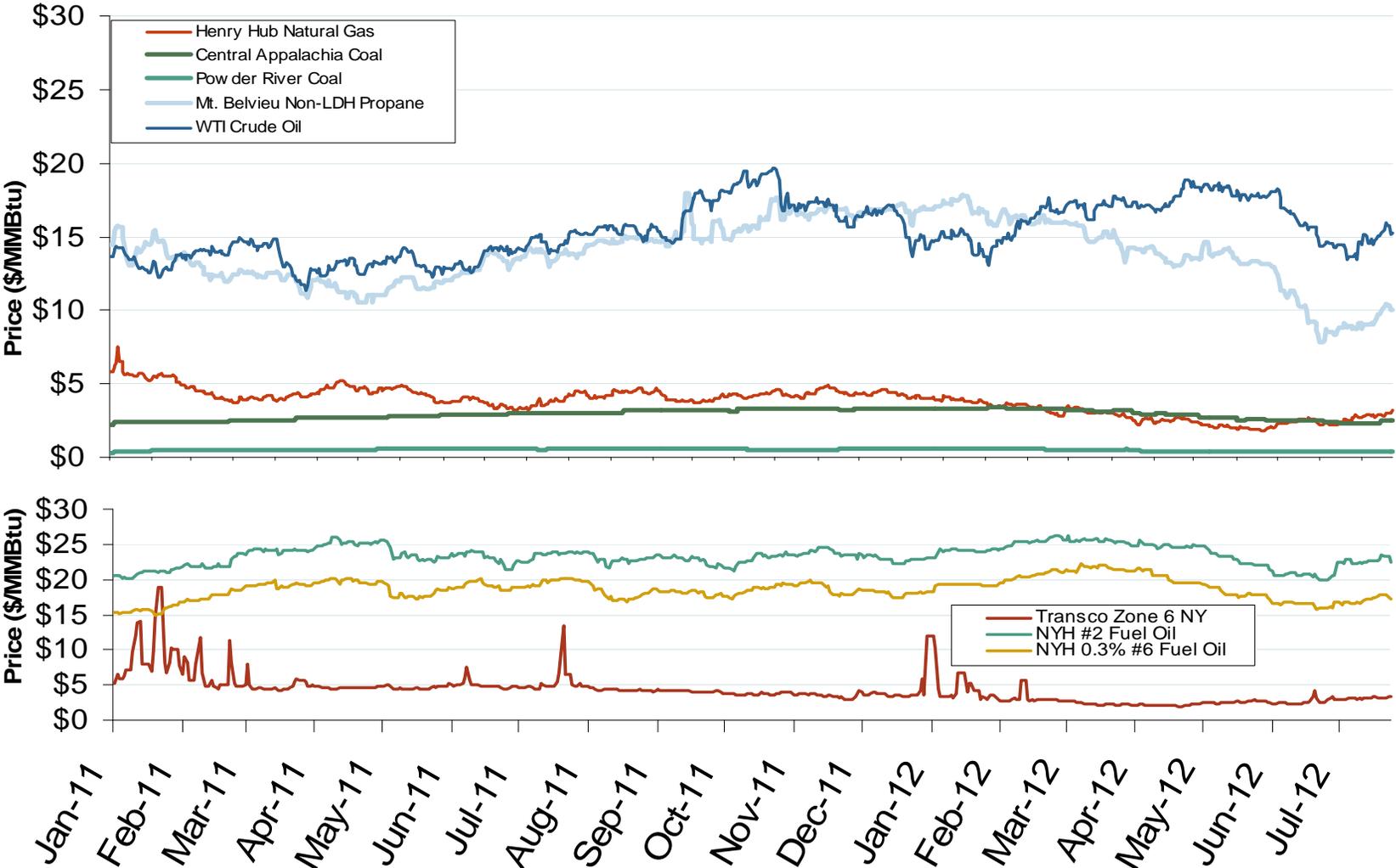
Source: Derived from Bloomberg Data  
July 2012 Midwest Snapshot Report

Updated: July 13, 2012

Other Fuels Market: Fossil Fuel Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)

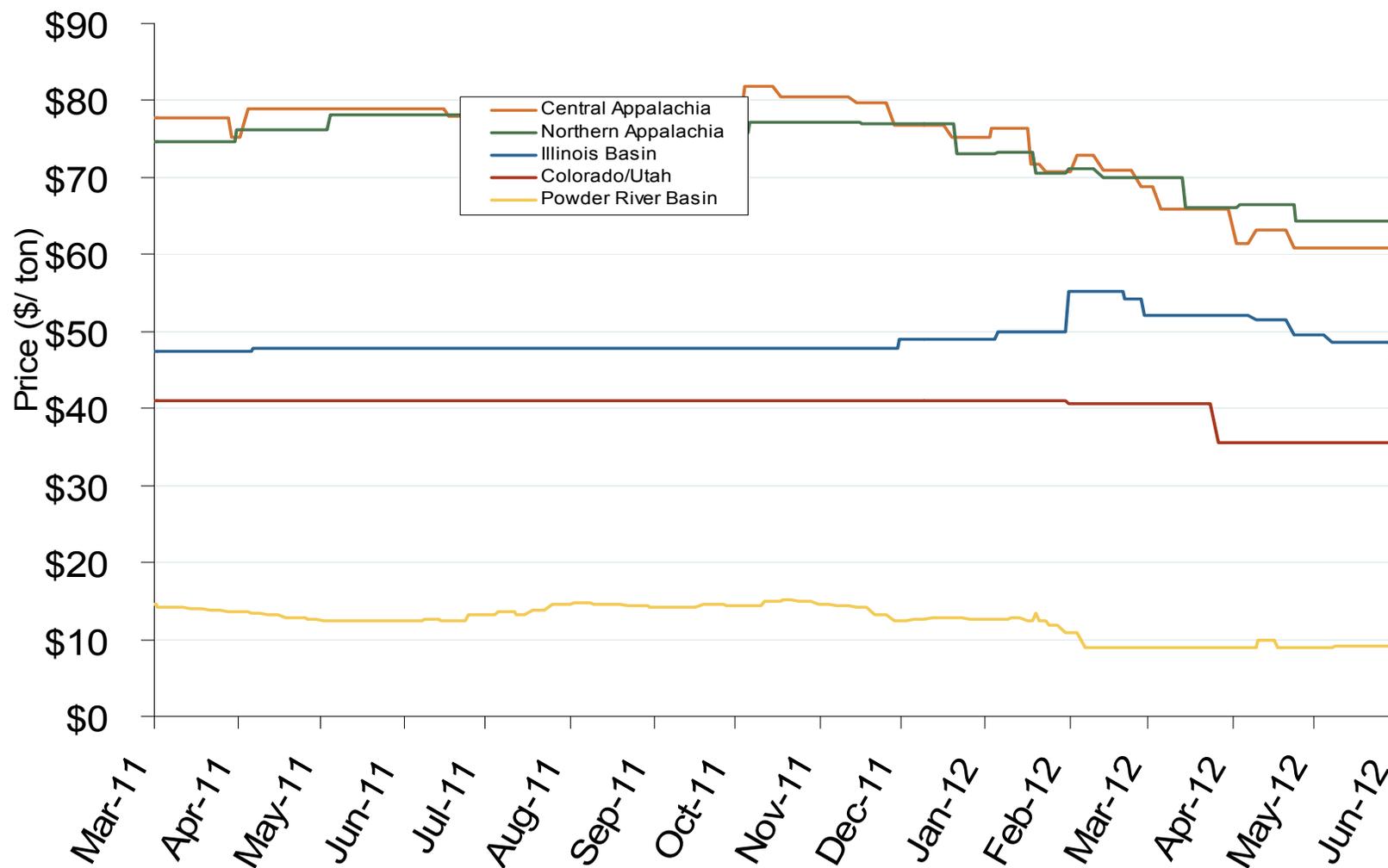
# Oil, Coal, Natural Gas and Propane Daily Spot Prices



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

## National Electric Market Overview: Coal Prices

Federal Energy Regulatory Commission • Market Oversight • [www.ferc.gov/oversight](http://www.ferc.gov/oversight)**Central Appalachian and Powder River Basin Coal Prices**

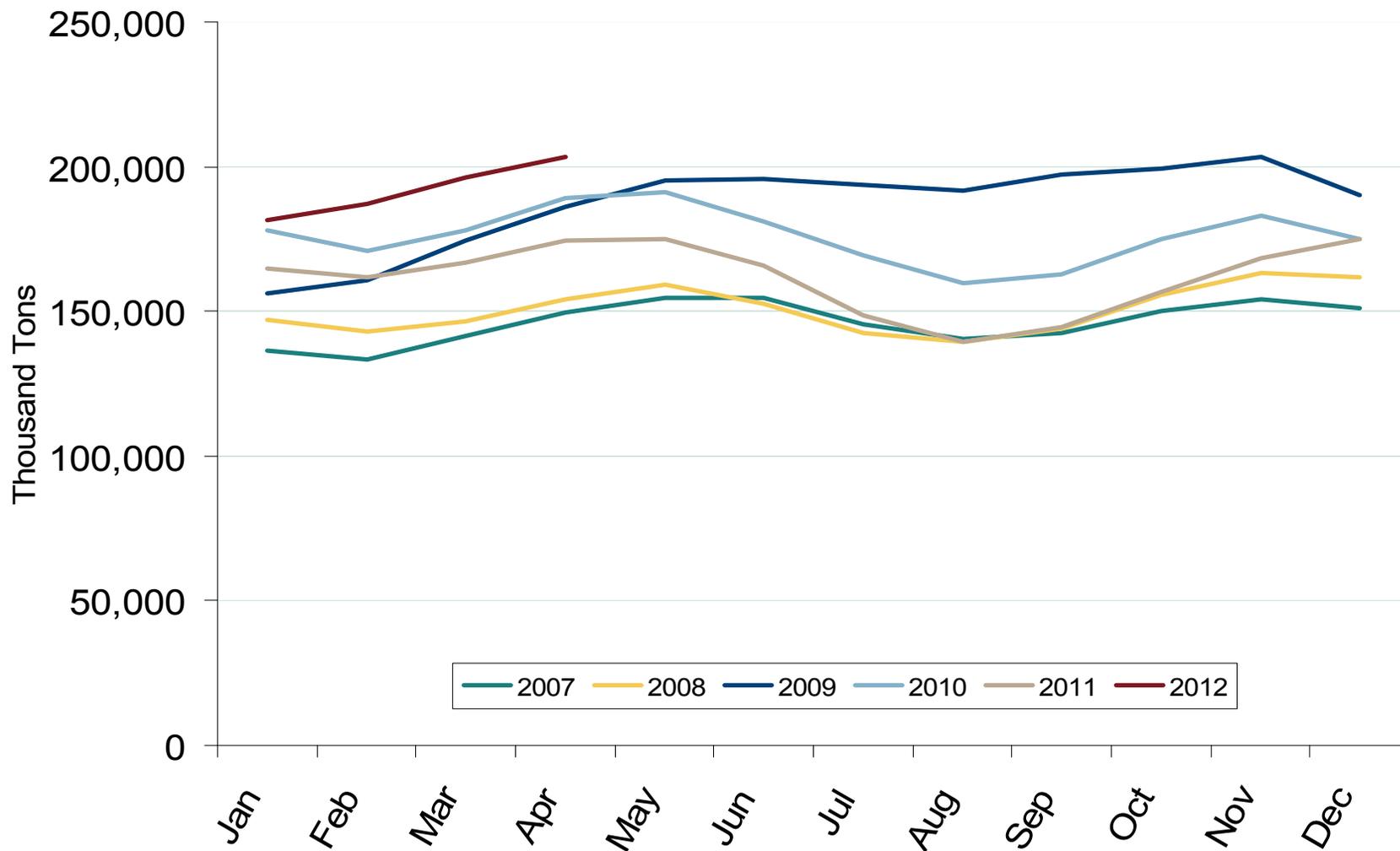
Notes: The Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances

Source: Derived from *Bloomberg* data

Updated: July 13, 2012

July 2012 Midwest Snapshot Report

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



Source: Derived from EIA data. Excludes Industrial and Commercial Plants  
 July 2012 Midwest Snapshot Report

Updated: July 12, 2012