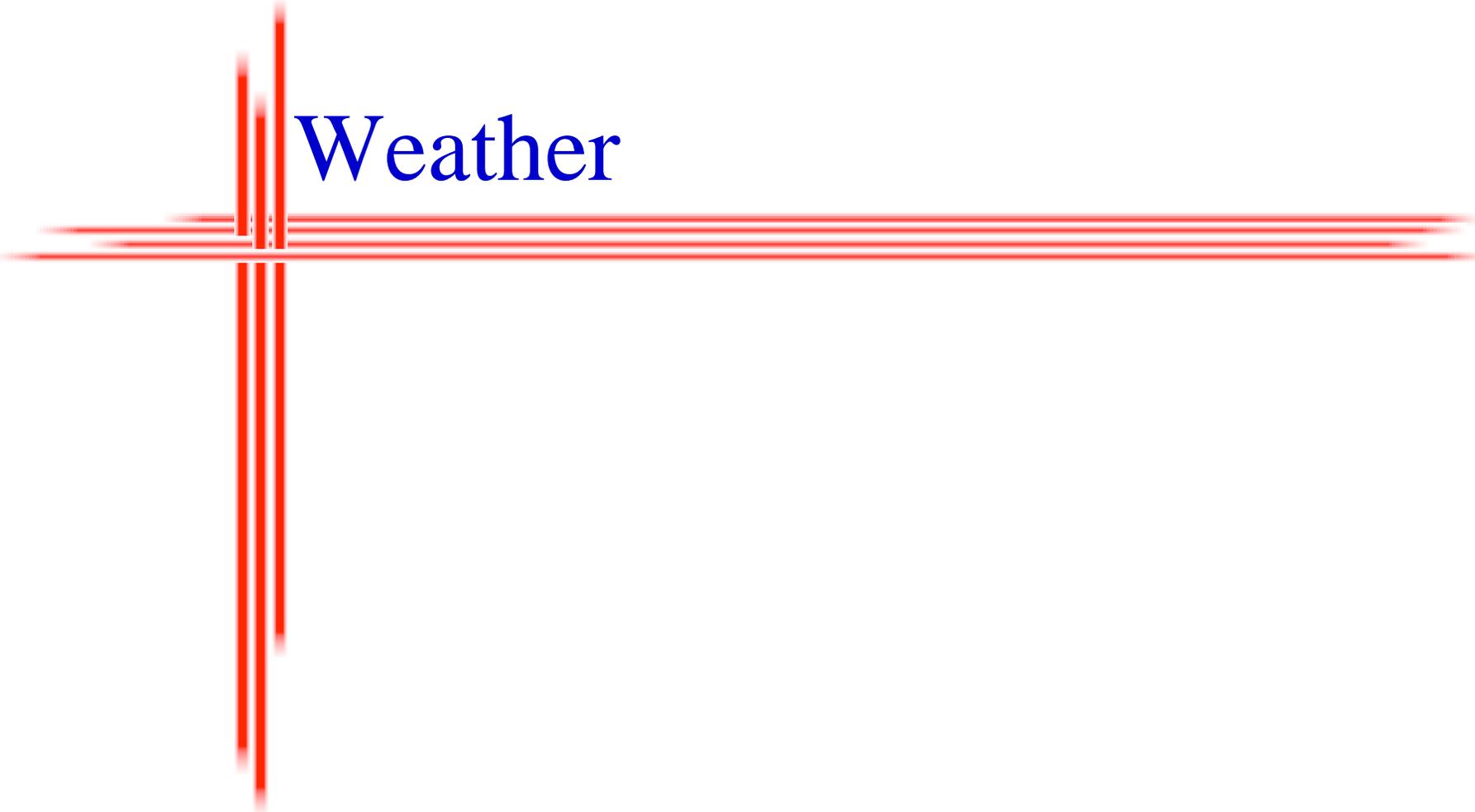


OE ENERGY MARKET SNAPSHOT

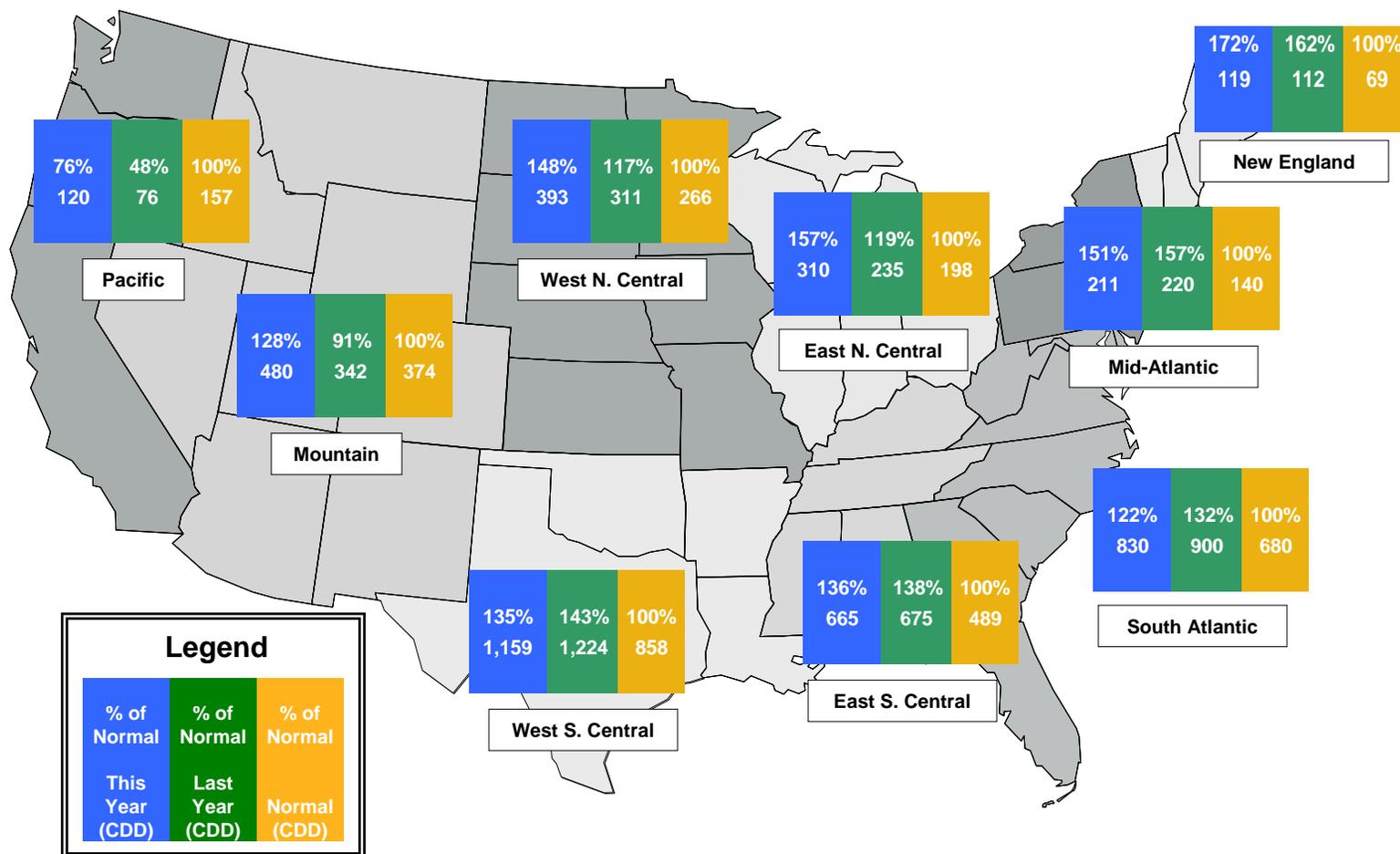
Western States Version – July 2012 Data

Office of Enforcement
Federal Energy Regulatory Commission
August 2012



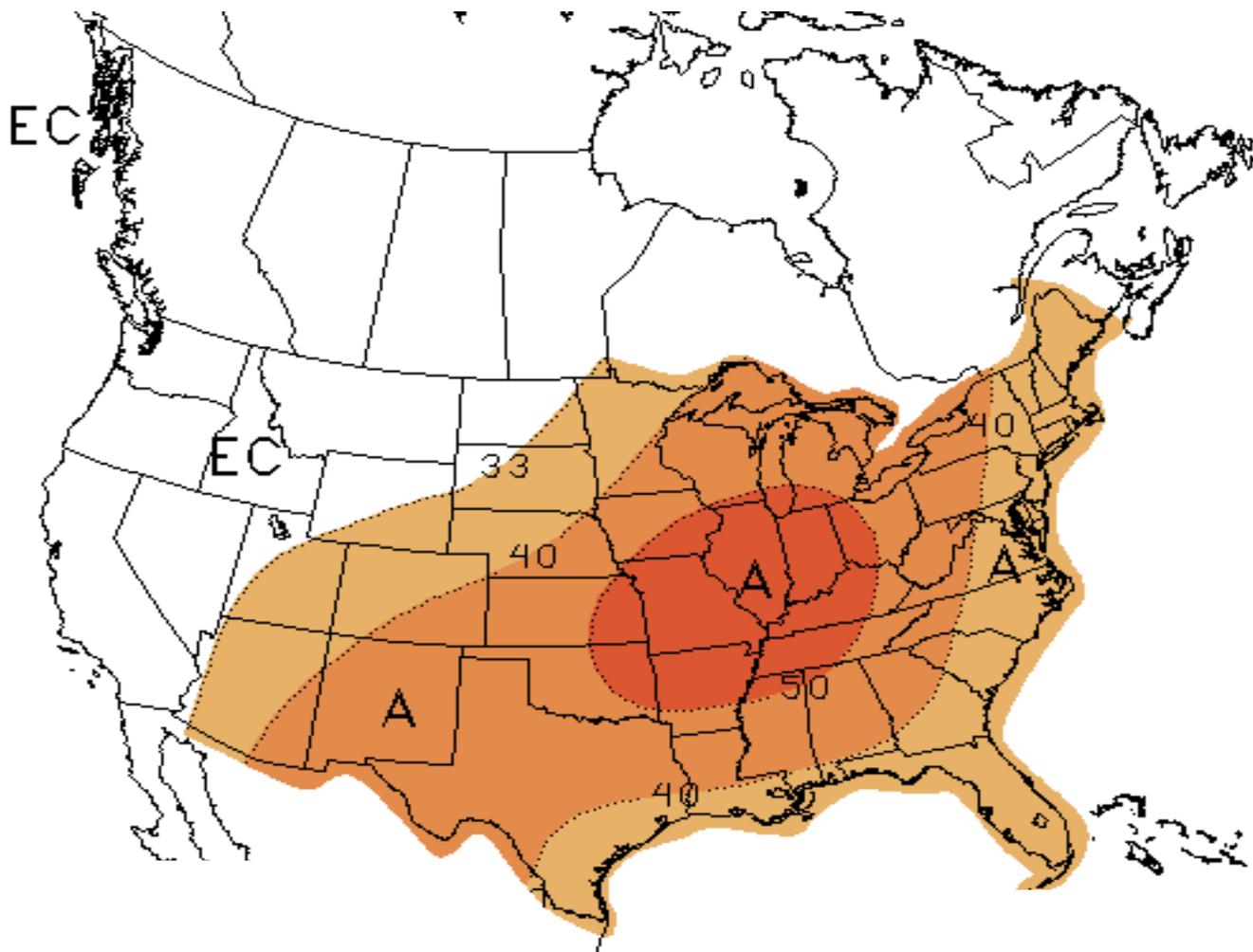
Weather

Regional Cooling Degree Days – January to July 2012



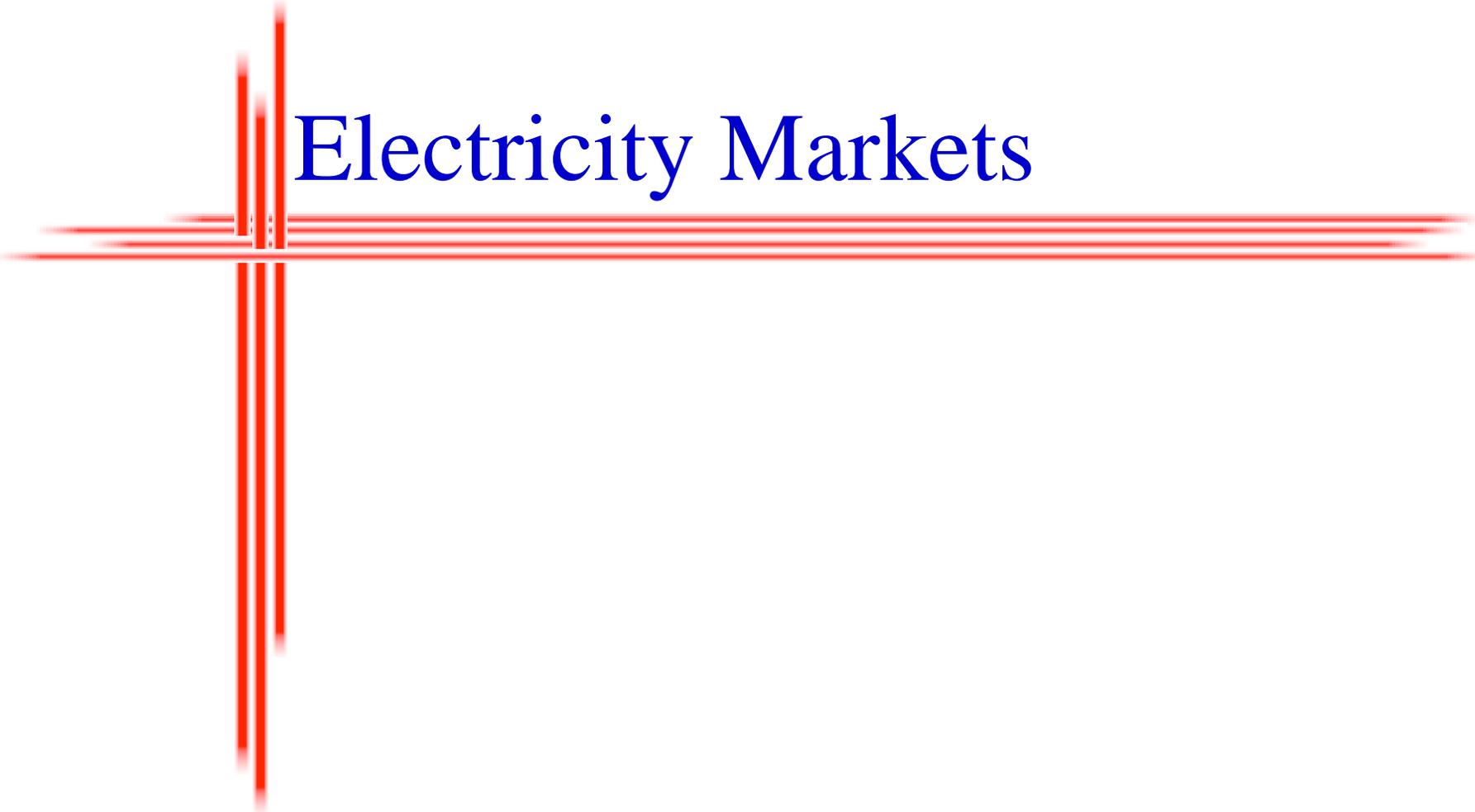
Source: Derived from NOAA data. Normal is based on a 30-year average of cooling degree day data.
 August 2012 Western Snapshot Report

NOAA's 3 Month Temperature Forecast Made July 19, 2012, Valid for August 2012 – October 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: August 6, 2012



Electricity Markets

California Electric Market: Last Month's Western Index Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

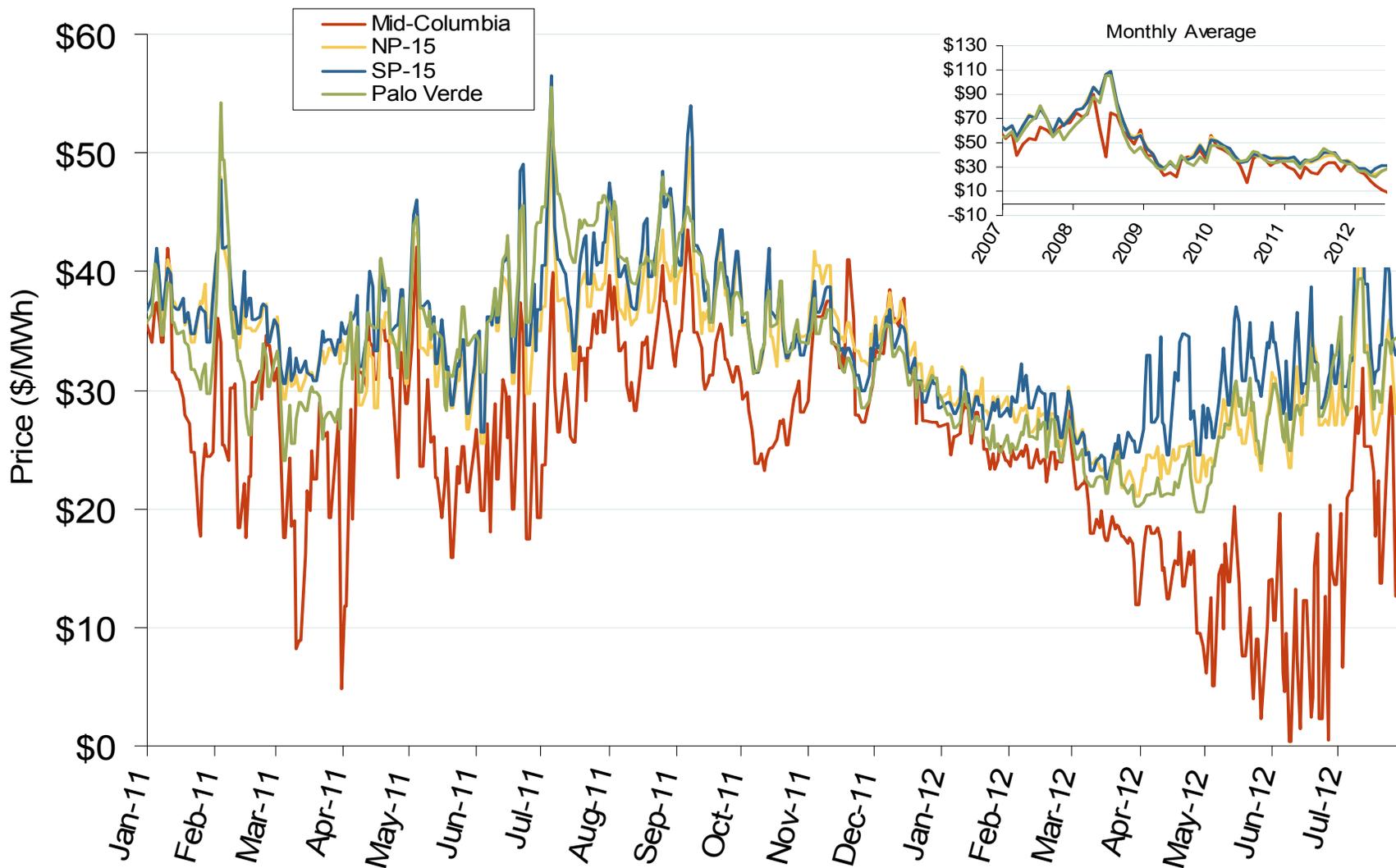
Western Daily Index Day-Ahead On-Peak Prices



California Electric Market: Western Index Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

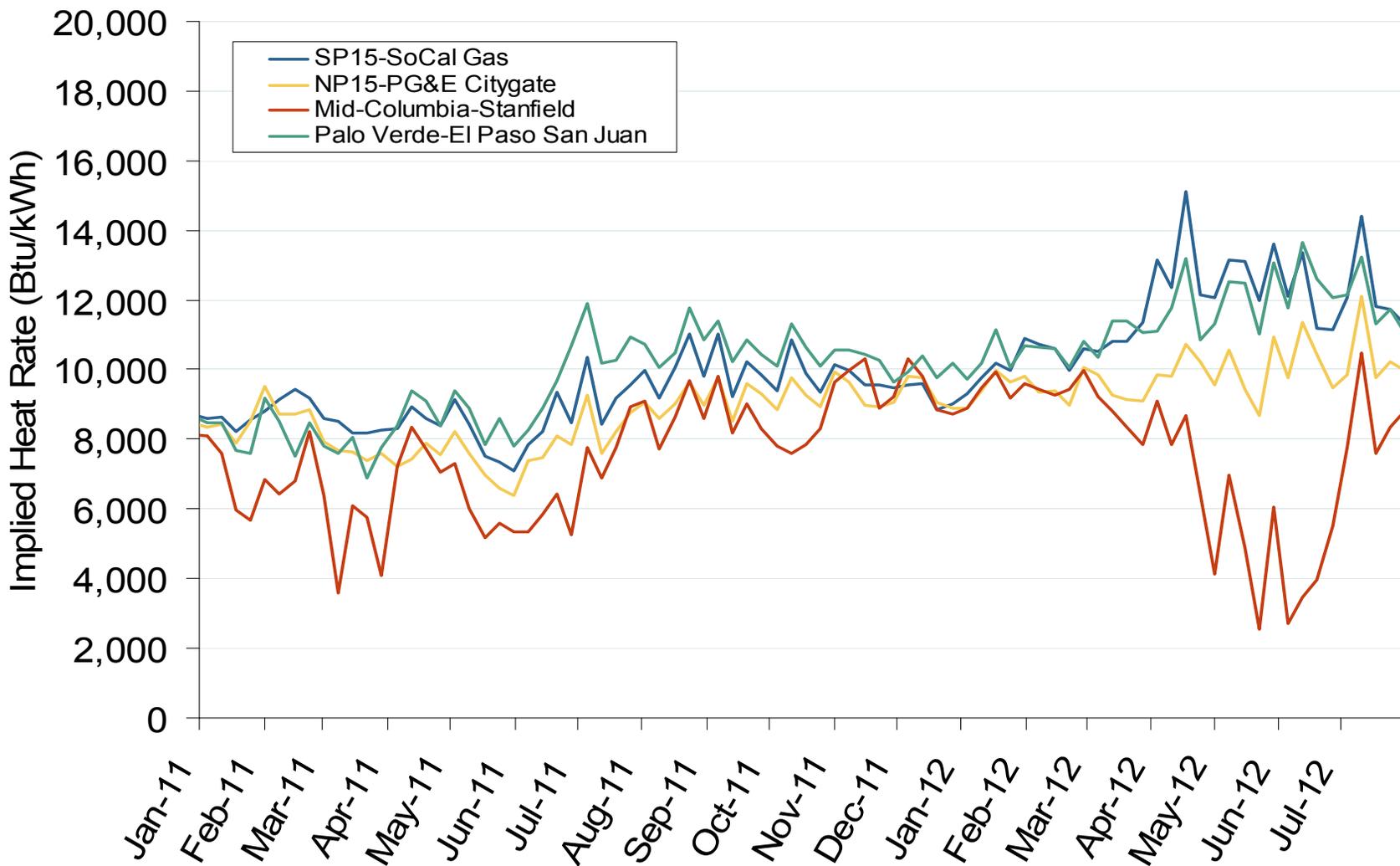
Western Daily Index Day-Ahead On-Peak Prices



Southwest Electric Market: Western Implied Heat Rates

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Implied Heat Rates at Western Trading Points - Weekly Avgs.



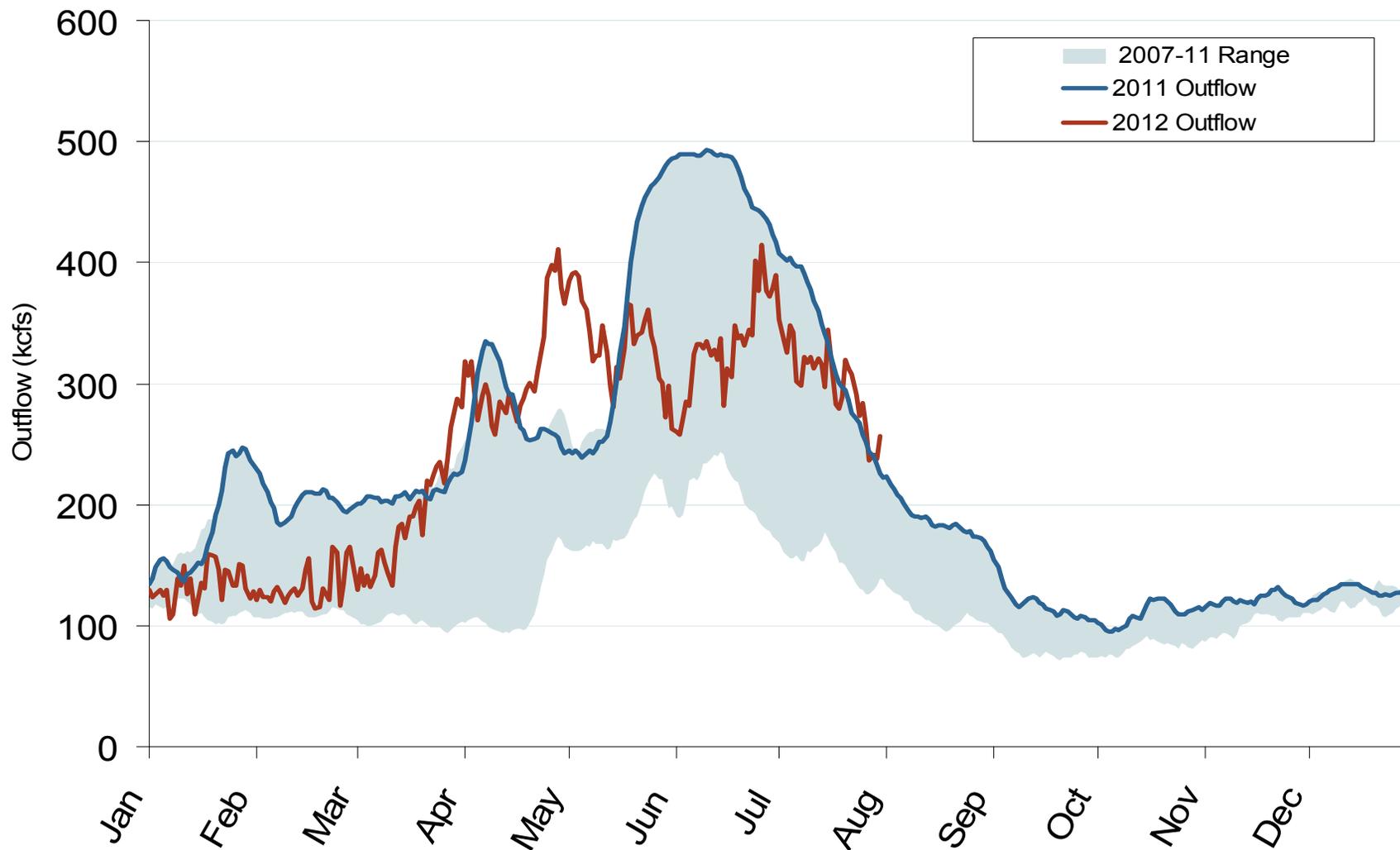
Source: Derived from *Platts* on-peak electric and natural gas price data
 August 2012 Western Snapshot Report

Updated: August 01, 2012

Northwest Electric Market: The Dalles Dam Stream Flow

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Stream Flows at the Dalles Dam



Notes: Trend lines are 7-day moving averages

Source: Derived from USACE data

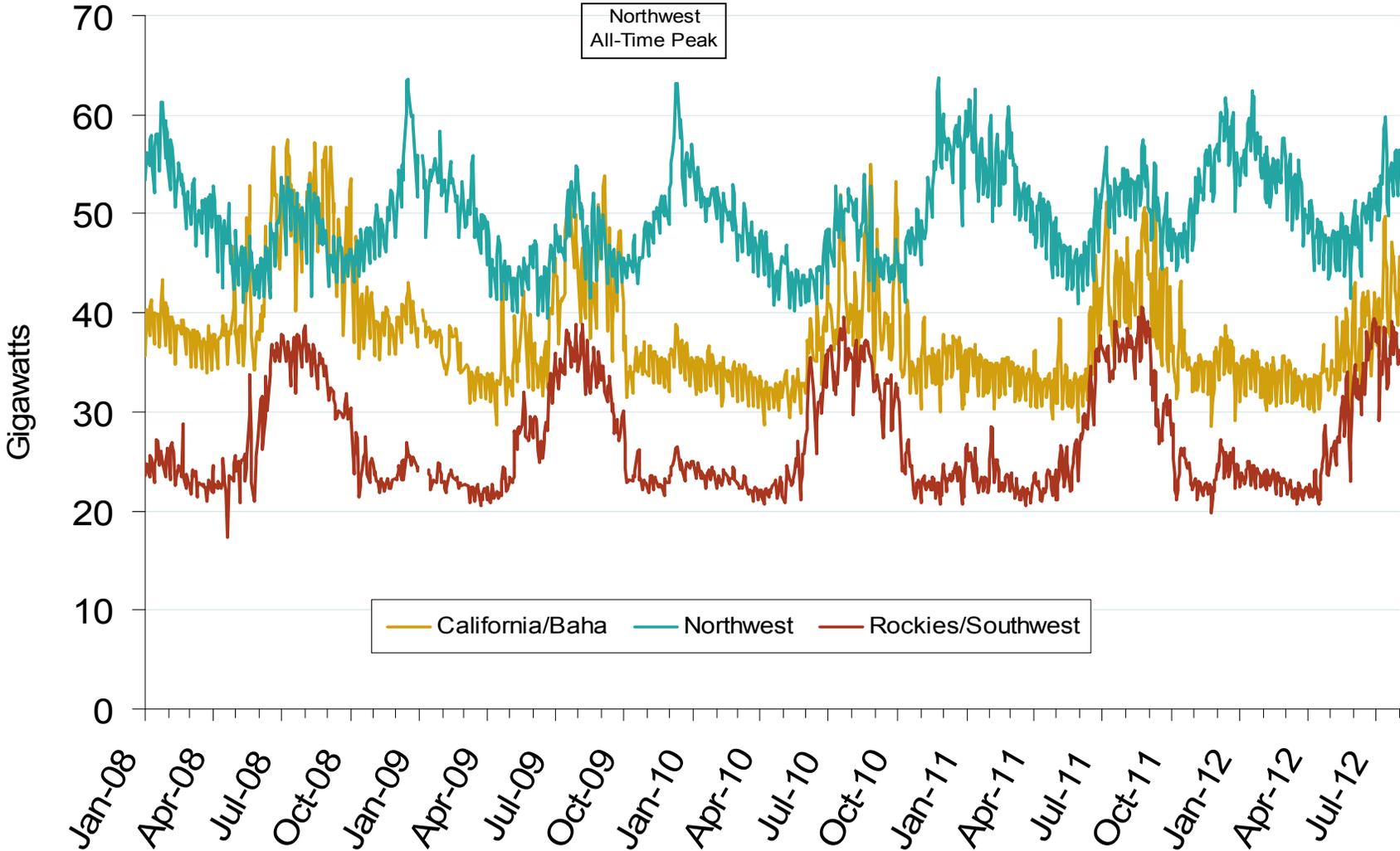
August 2012 Western Snapshot Report

Updated: August 06, 2012

California Electric Market: Daily Peak Demand

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Western Daily Actual Peak Demand

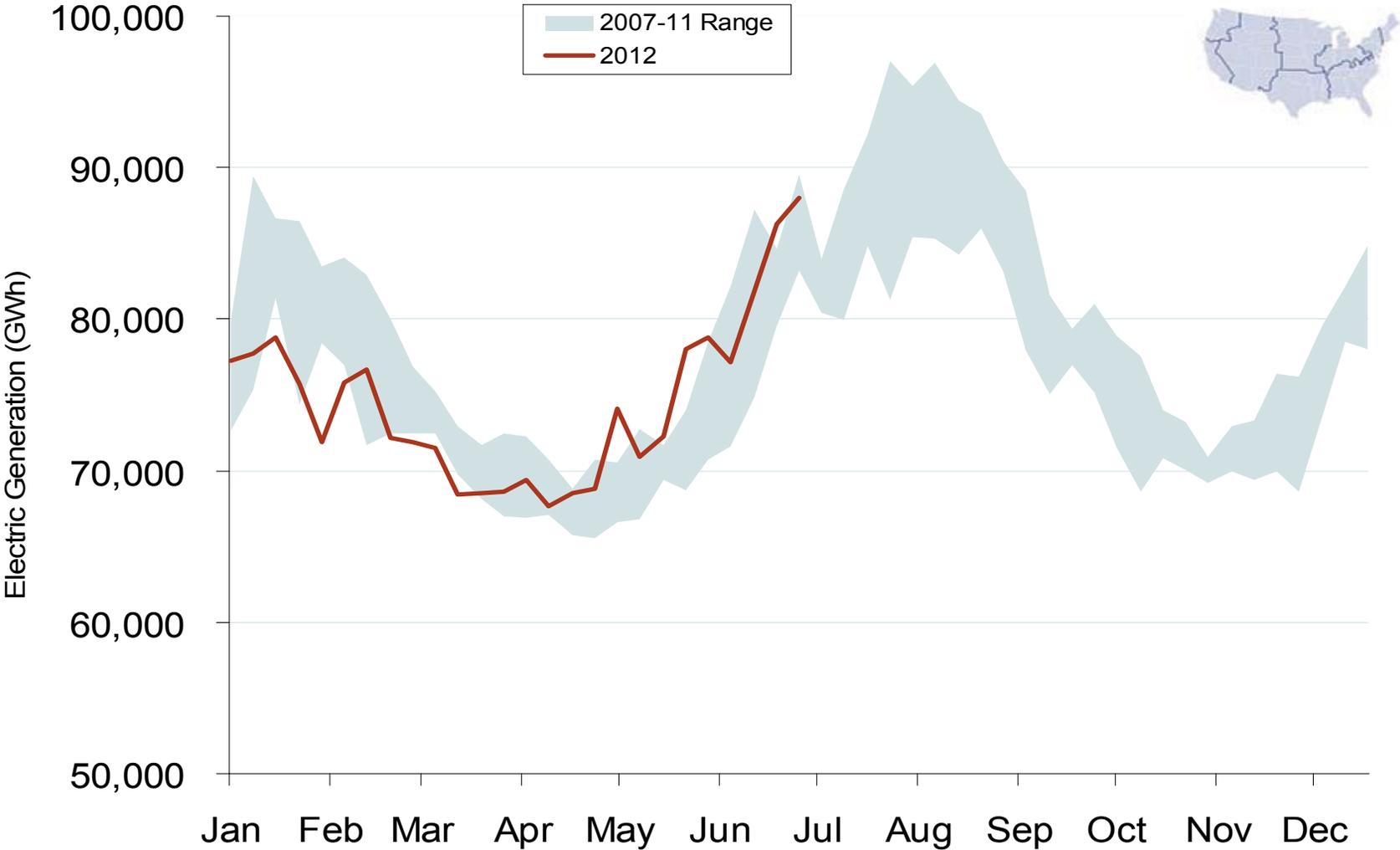


Notes: Data prior to 9/14/2010 does not include weekends and holidays. Some data for 12/31/2008 – 1/9/2009 are not available from WECC

Source: Derived from WECC Daily Report data available at <http://wecc.biz>

Updated: August 02, 2012

Weekly U.S. Electric Generation Output



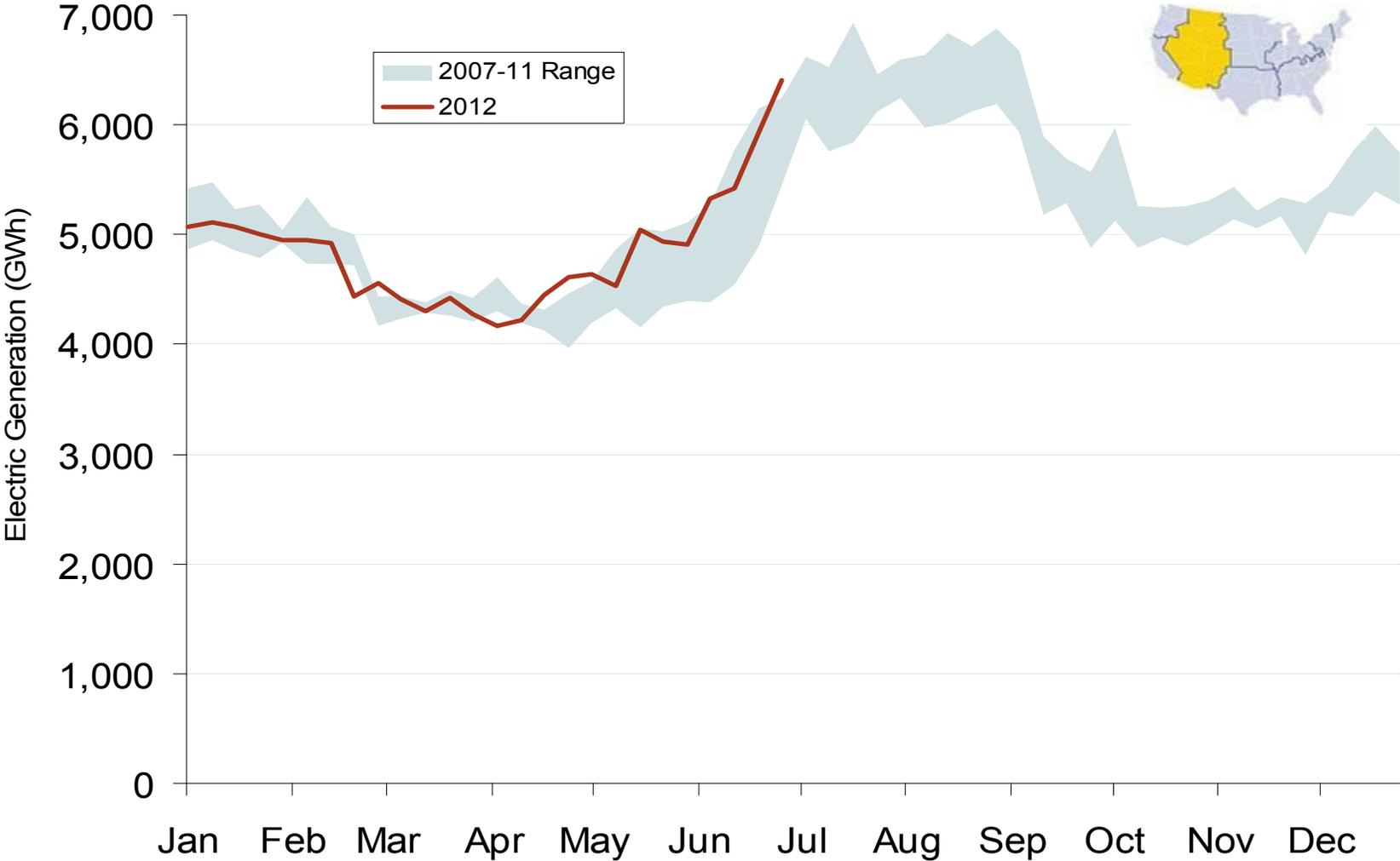
Source: Derived from *EEI* data
August 2012 Western Snapshot Report

Updated: August 02, 2012

Southwest Electric Market: Generation Output

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

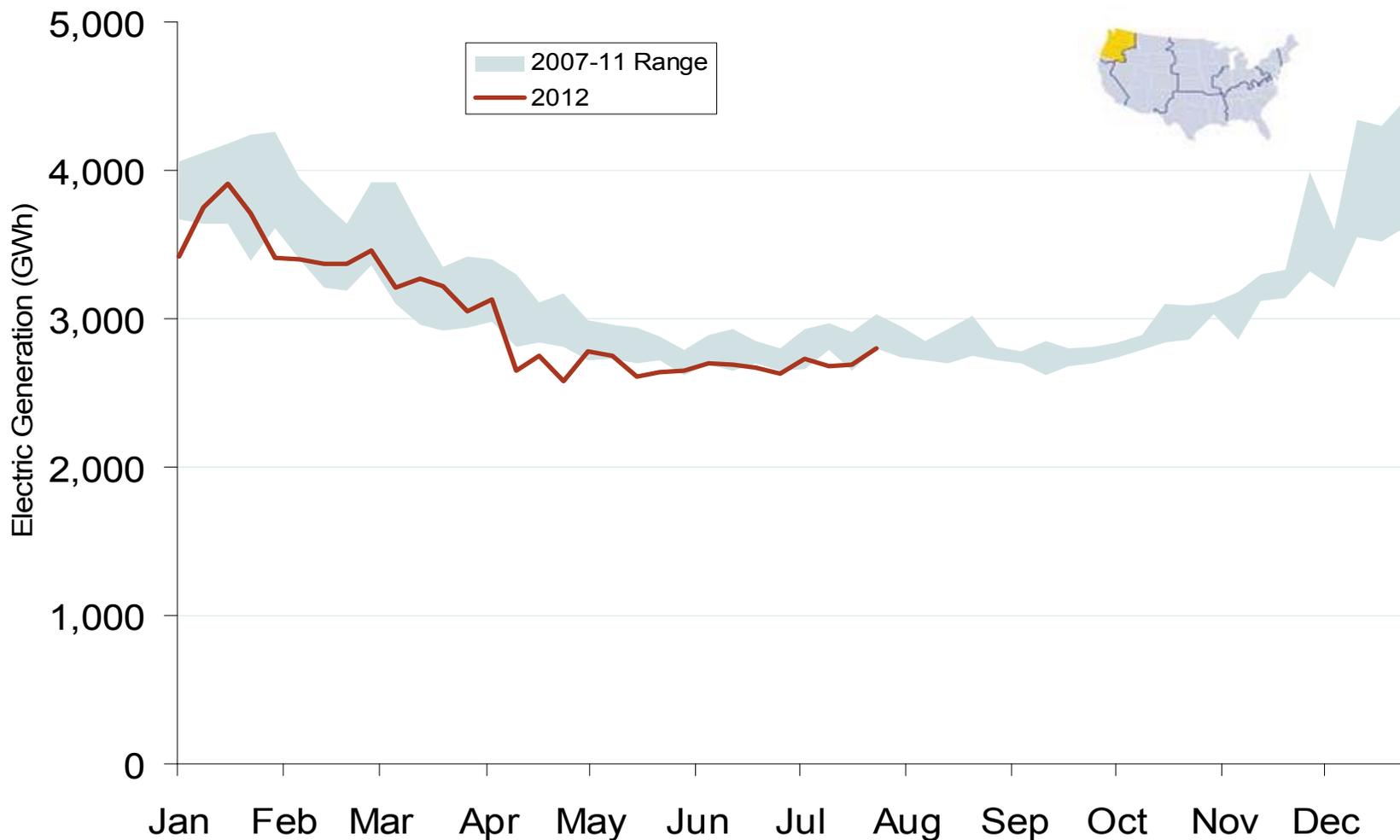
Weekly Generation Output - Rocky Mountains



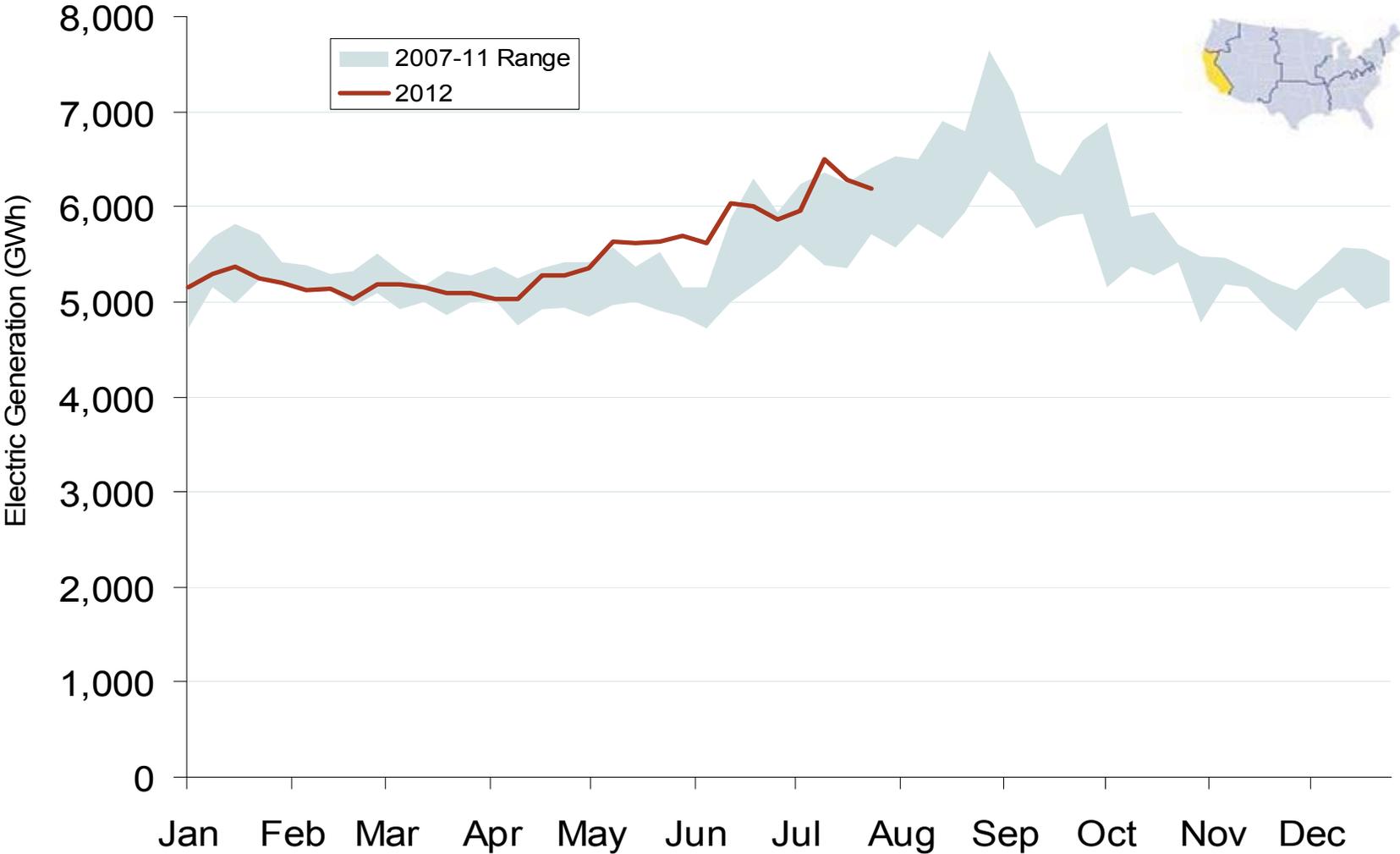
Source: Derived from *EEI* data
August 2012 Western Snapshot Report

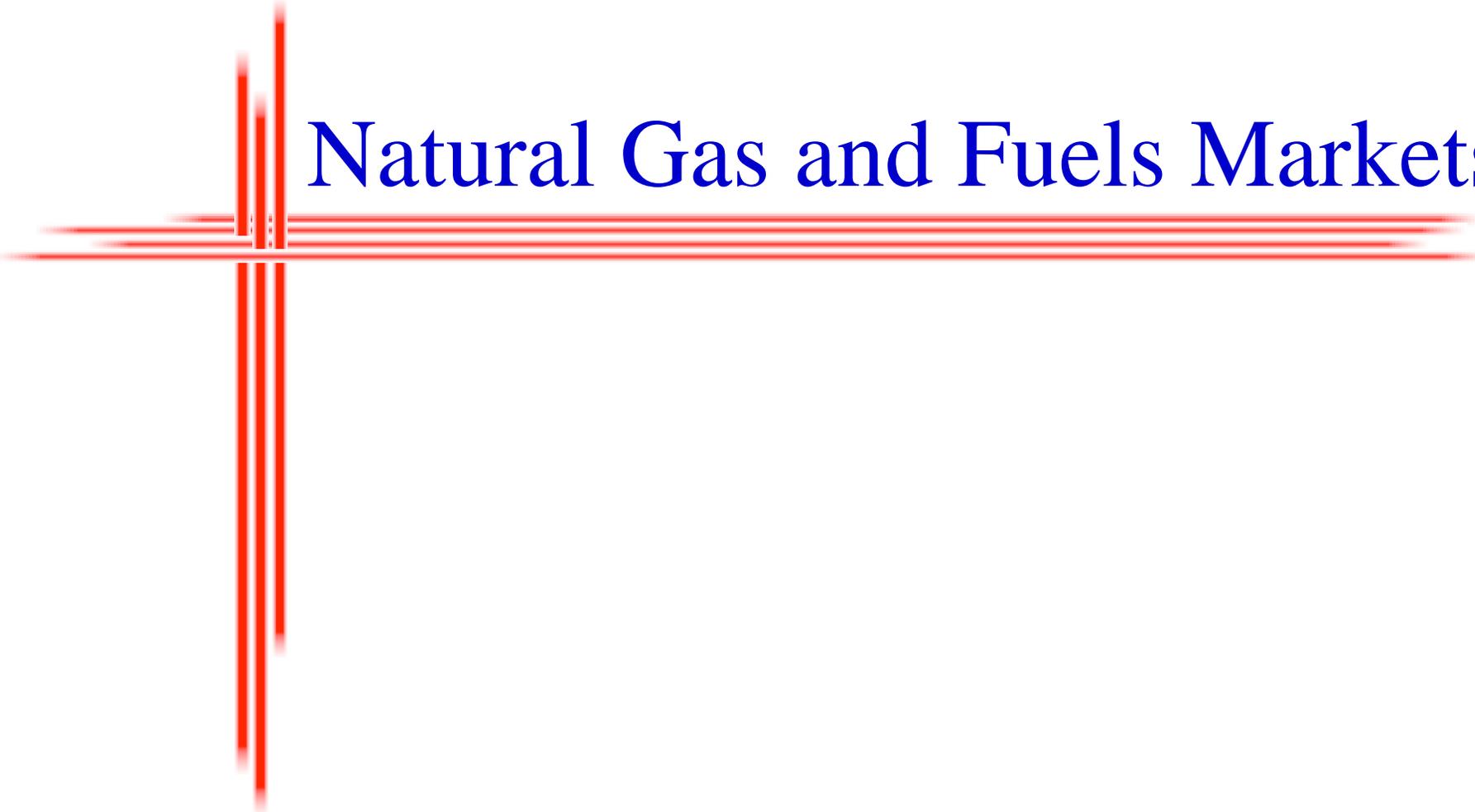
Updated: August 02, 2012

Weekly Generation Output - Pacific Northwest



Weekly Generation Output - California



A decorative graphic consisting of several thick, parallel red lines. Two lines are vertical, intersecting three horizontal lines. The lines have a slight blur or glow effect.

Natural Gas and Fuels Markets

Western Natural Gas Market: Spot Prices and Basis

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Western Day-Ahead Hub Spot Prices and Basis



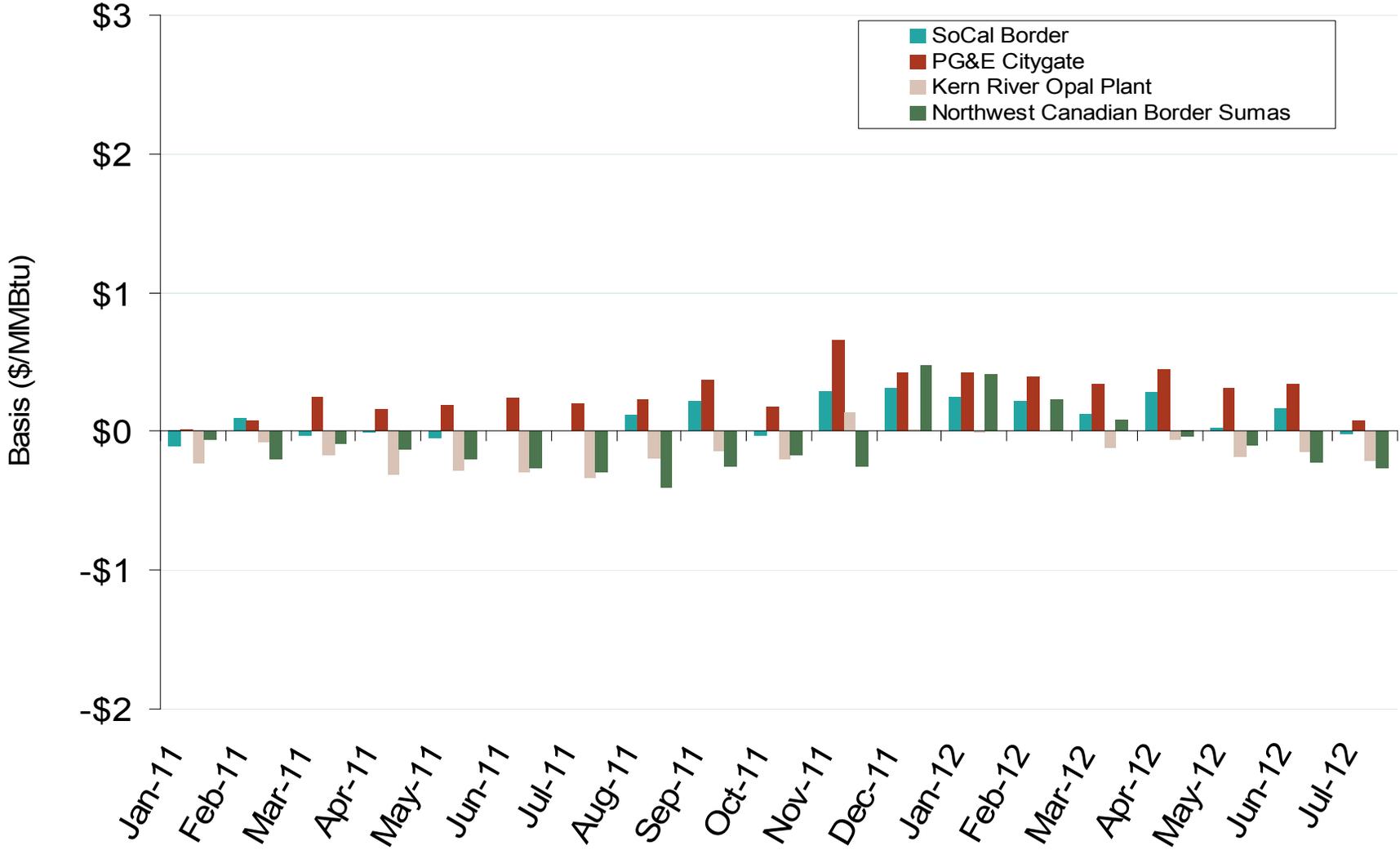
Source: Derived from *Platts* data
August 2012 Western Snapshot Report

Updated: August 01, 2012

Western Natural Gas Market: Average Basis to Henry Hub

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Western Monthly Average Basis Value to Henry Hub

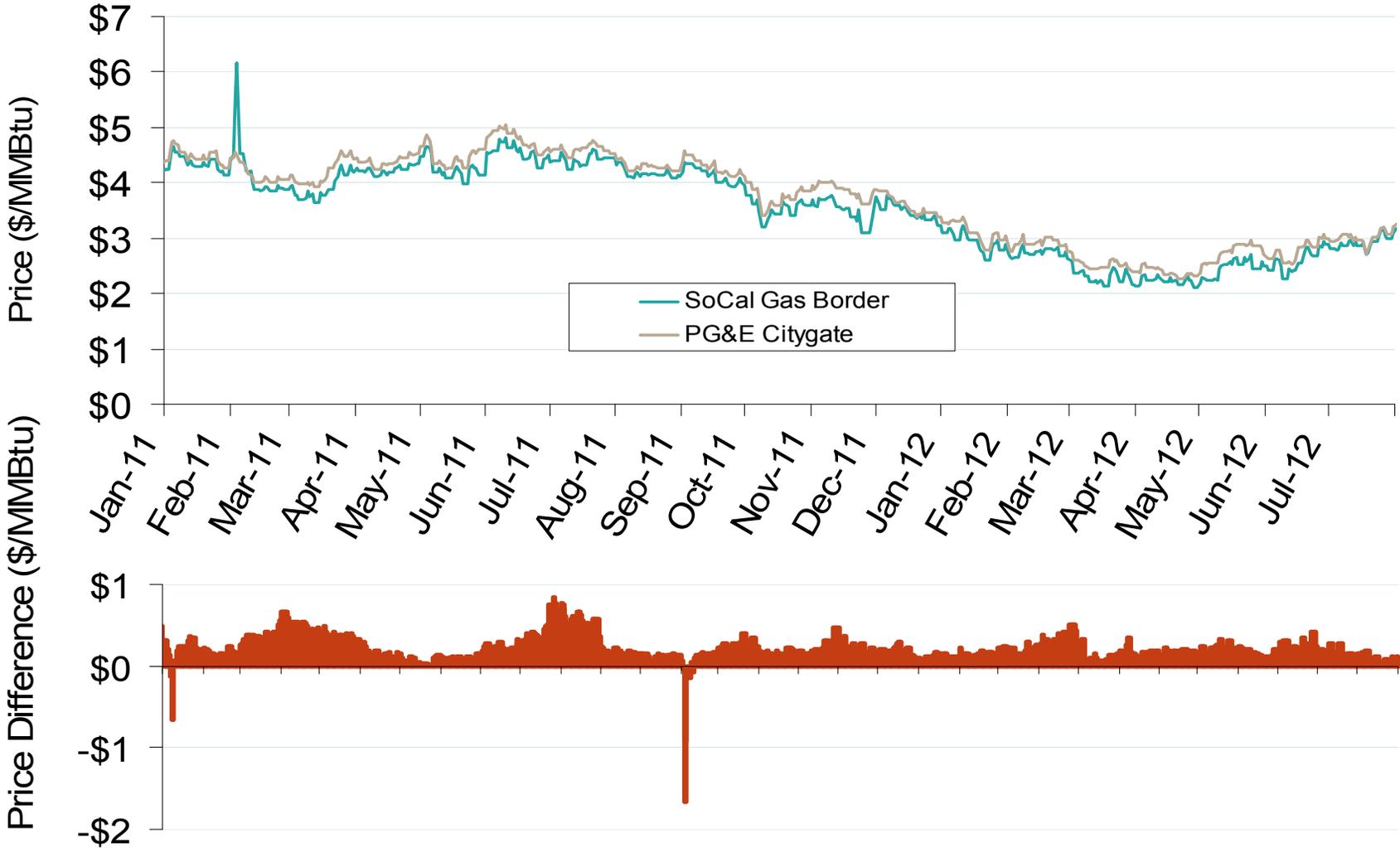


Source: Derived from Platts data
August 2012 Western Snapshot Report

Updated: August 01, 2012

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Difference in Northern and Southern California Daily Spot Prices



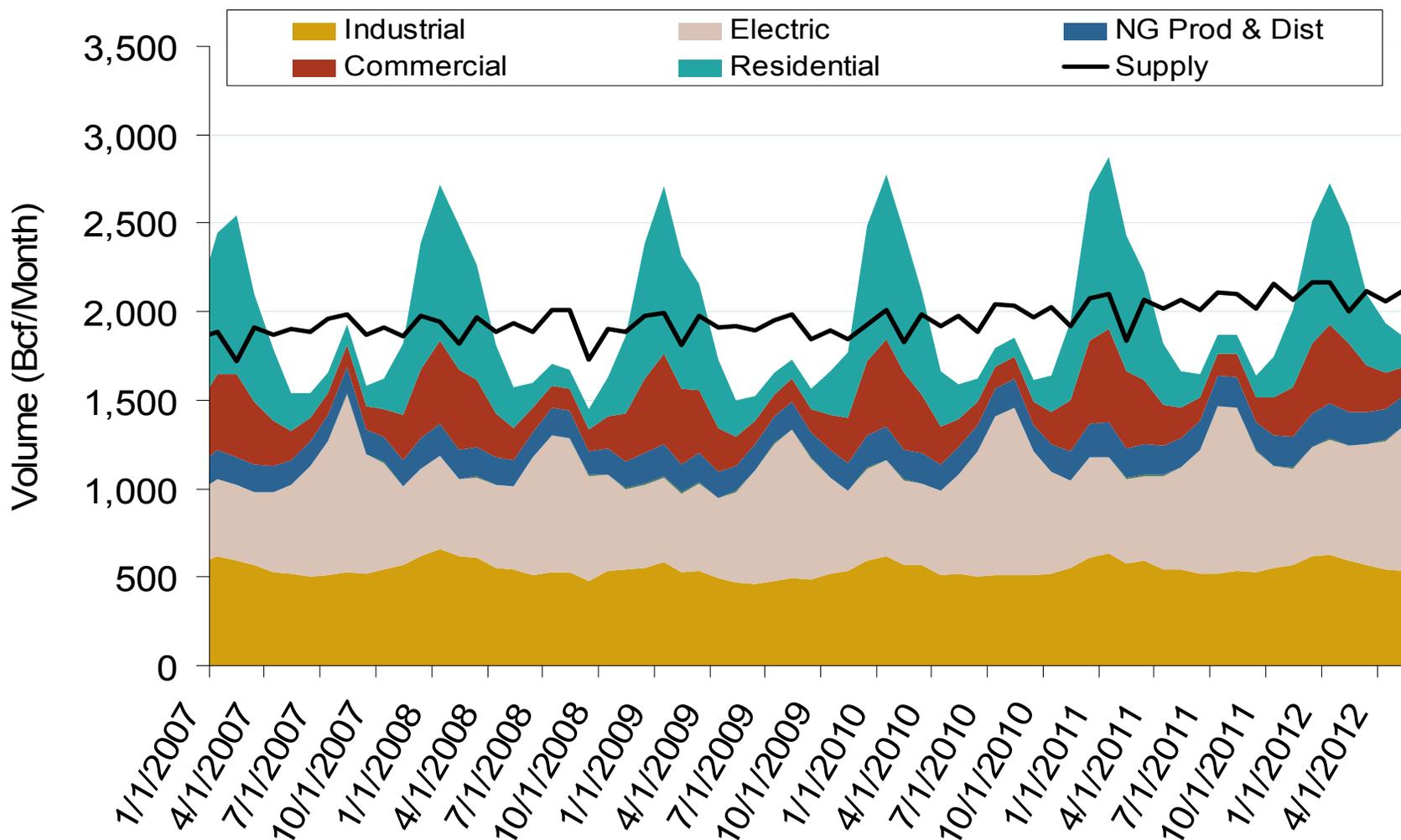
Source: Derived from *Platts* data
August 2012 Western Snapshot Report

Updated: August 01, 2012

Natural Gas market Overview: Consumption by Sector

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Annual U.S. Natural Gas Consumption by Sector



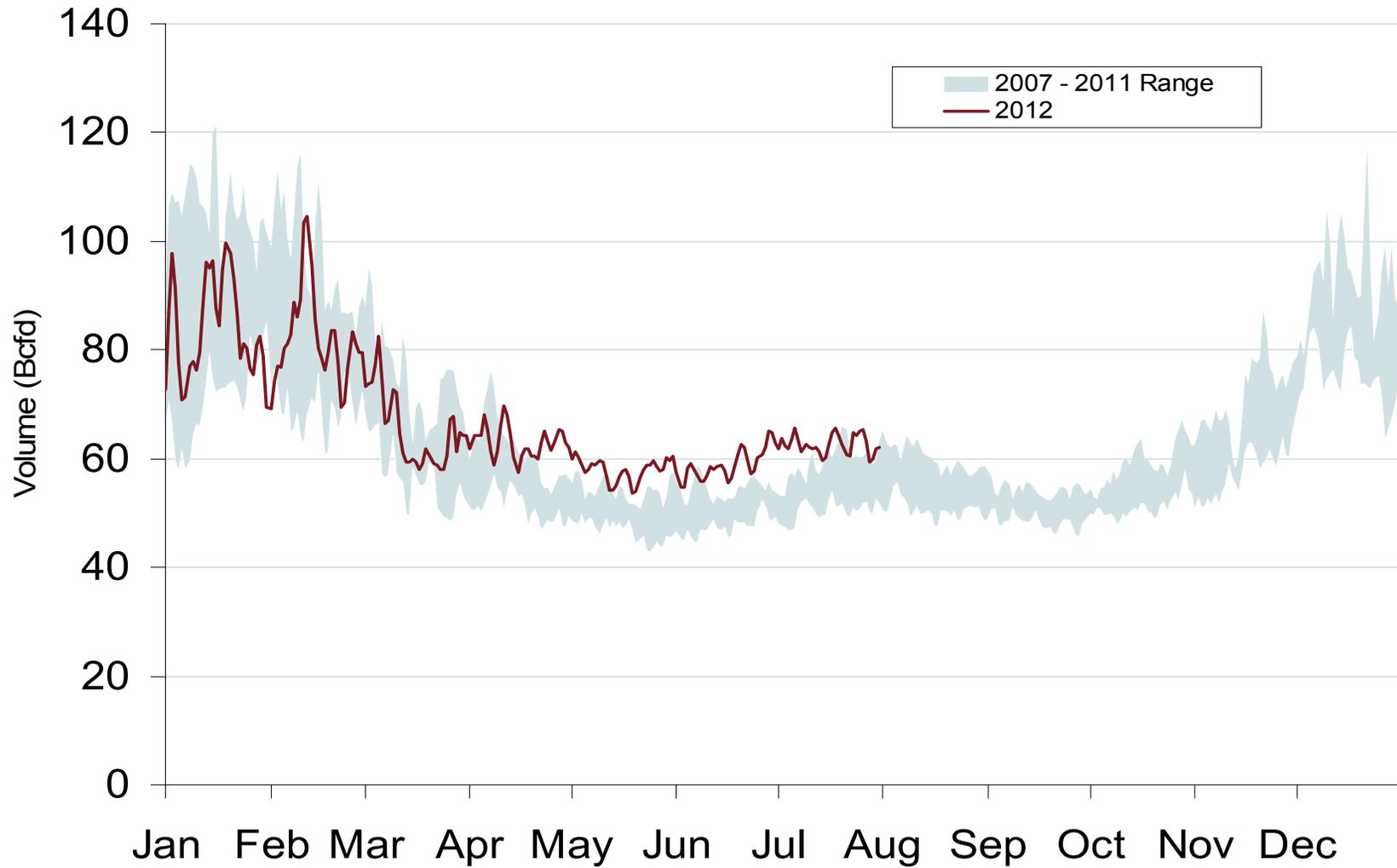
Notes: Supply includes lower 48 state production, net pipeline imports, and LNG imports

Source: Derived from EIA data

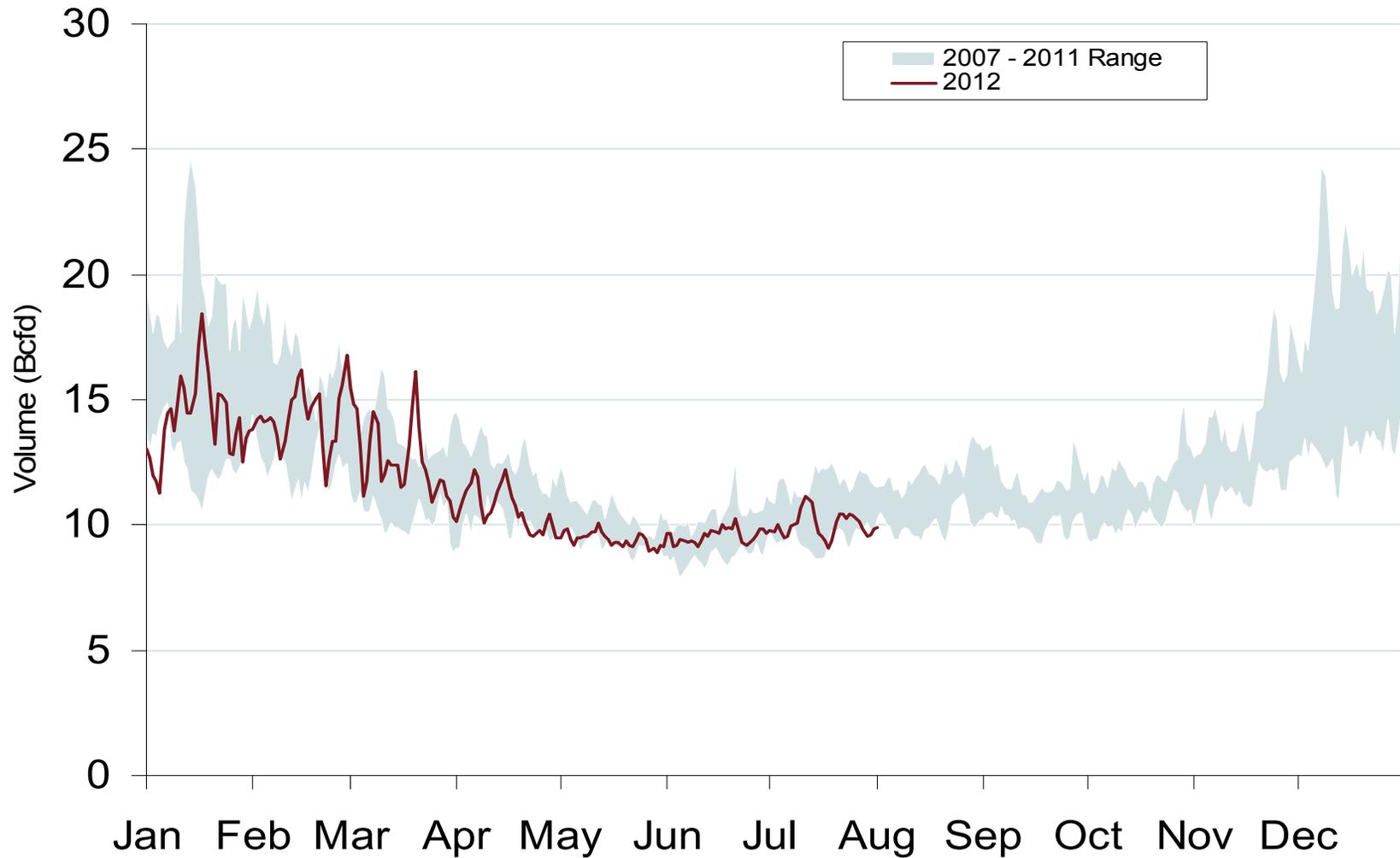
August 2012 Western Snapshot Report

Updated: August 06, 2012

Natural Gas Market Overview: Total US Gas Demand

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight**Total U.S. Natural Gas Demand All Sectors**

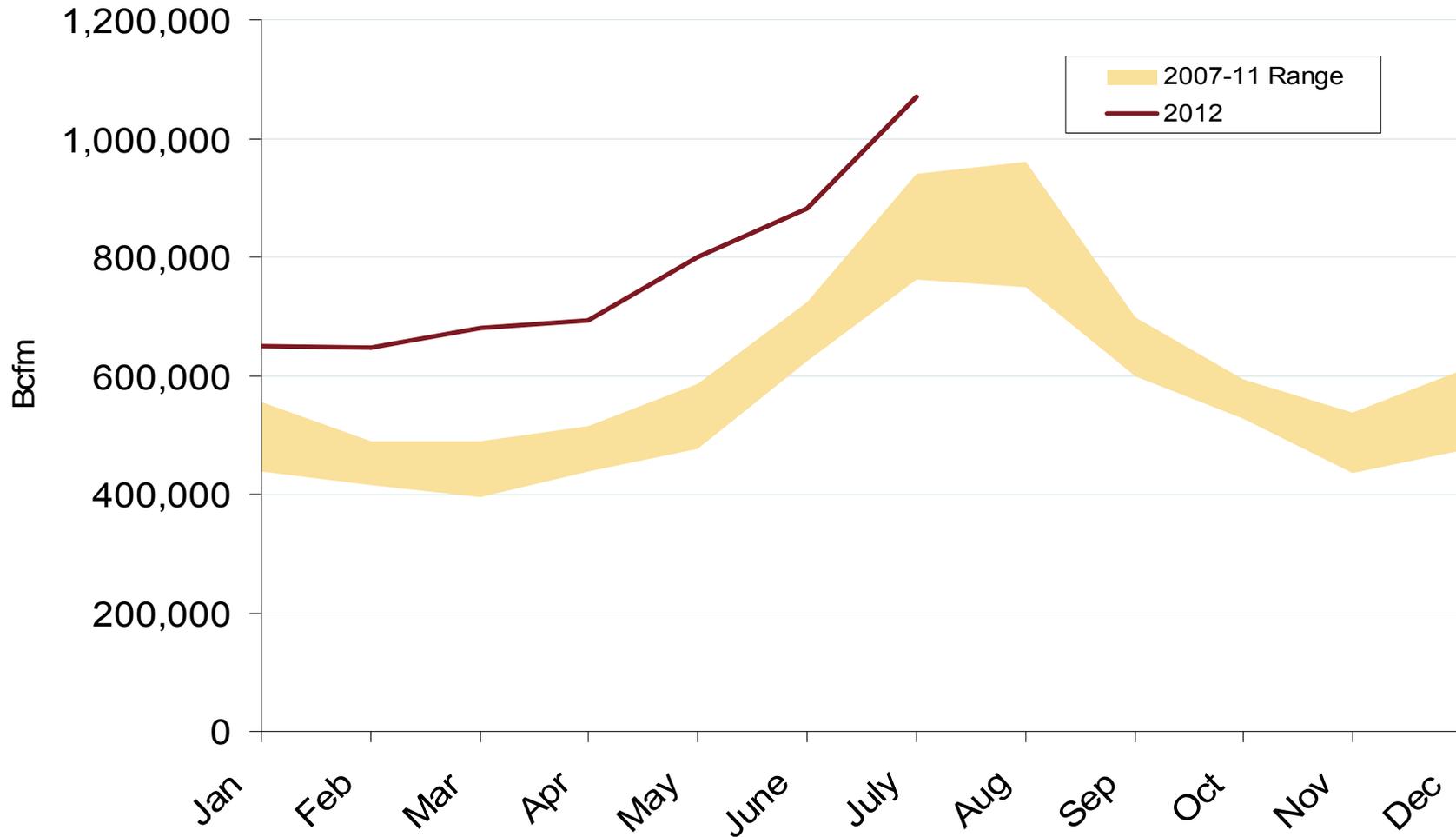
Daily Western Natural Gas Demand All Sectors



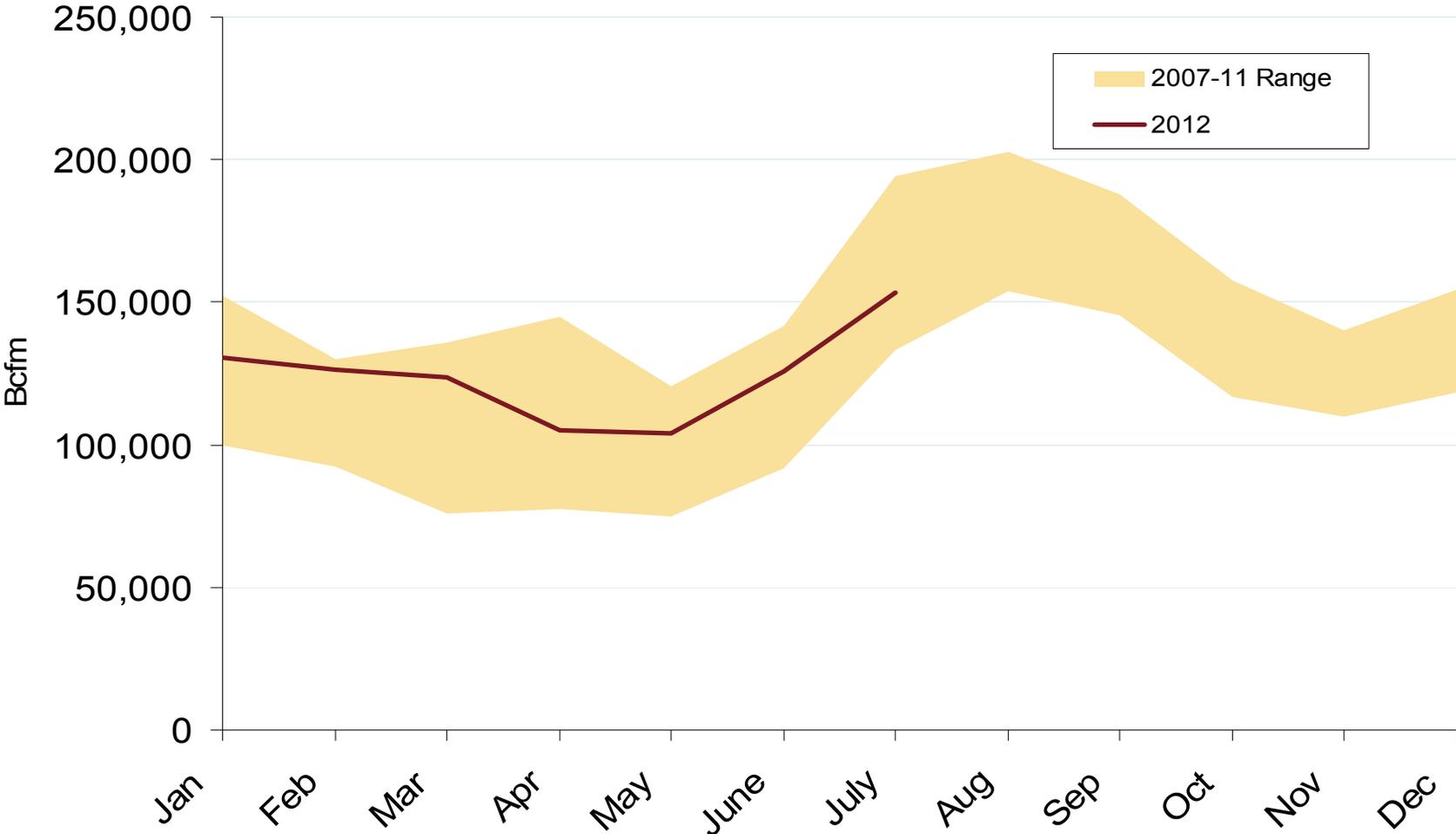
Natural Gas Market Overview: NG Consumption for Power Generation

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

U.S. Natural Gas Consumption for Power Generation



Western Natural Gas Consumption for Power Generation



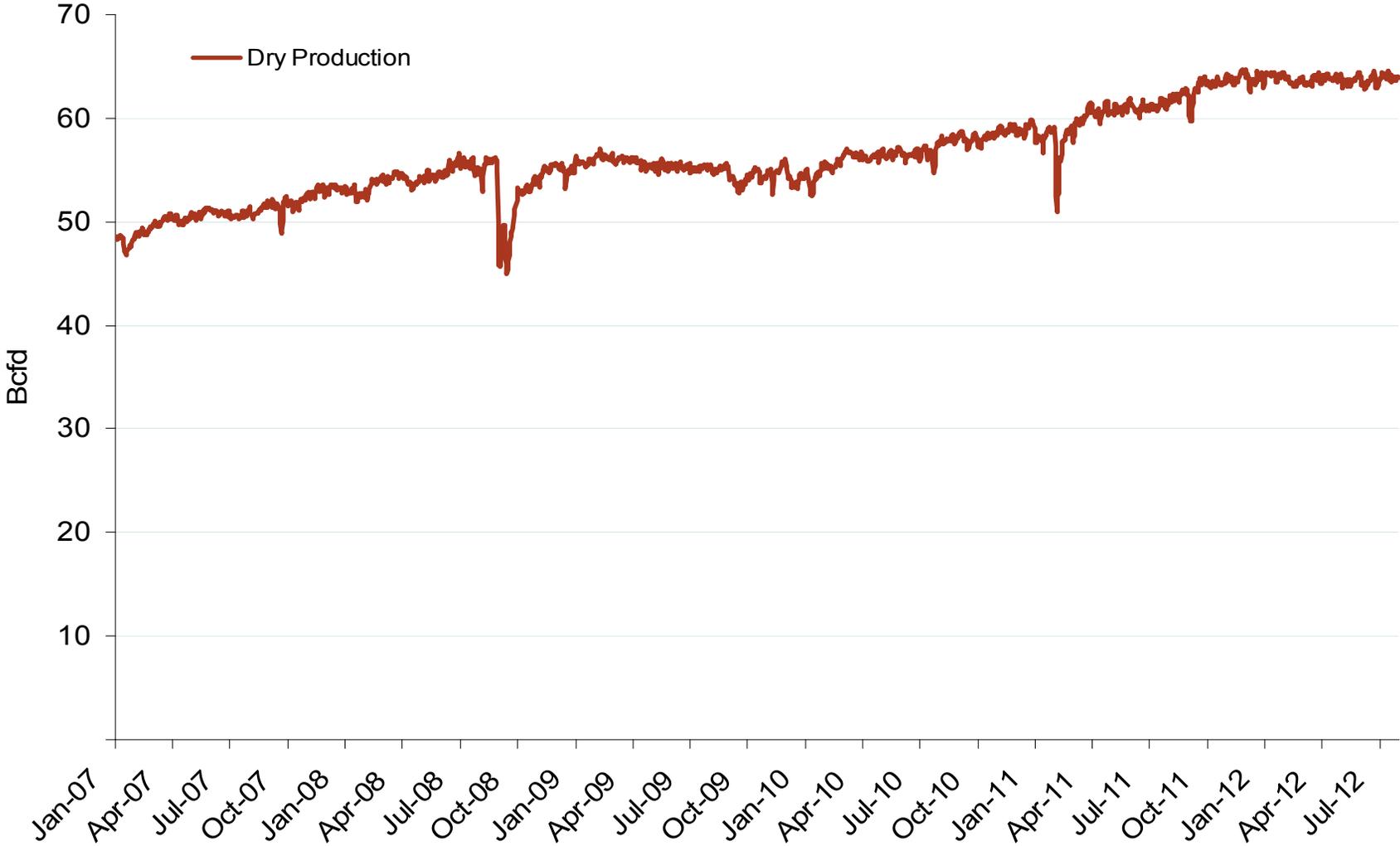
Source: Derived from *Bentek Energy* data
August 2012 Western Snapshot Report

Updated: August 02, 2012

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

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

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

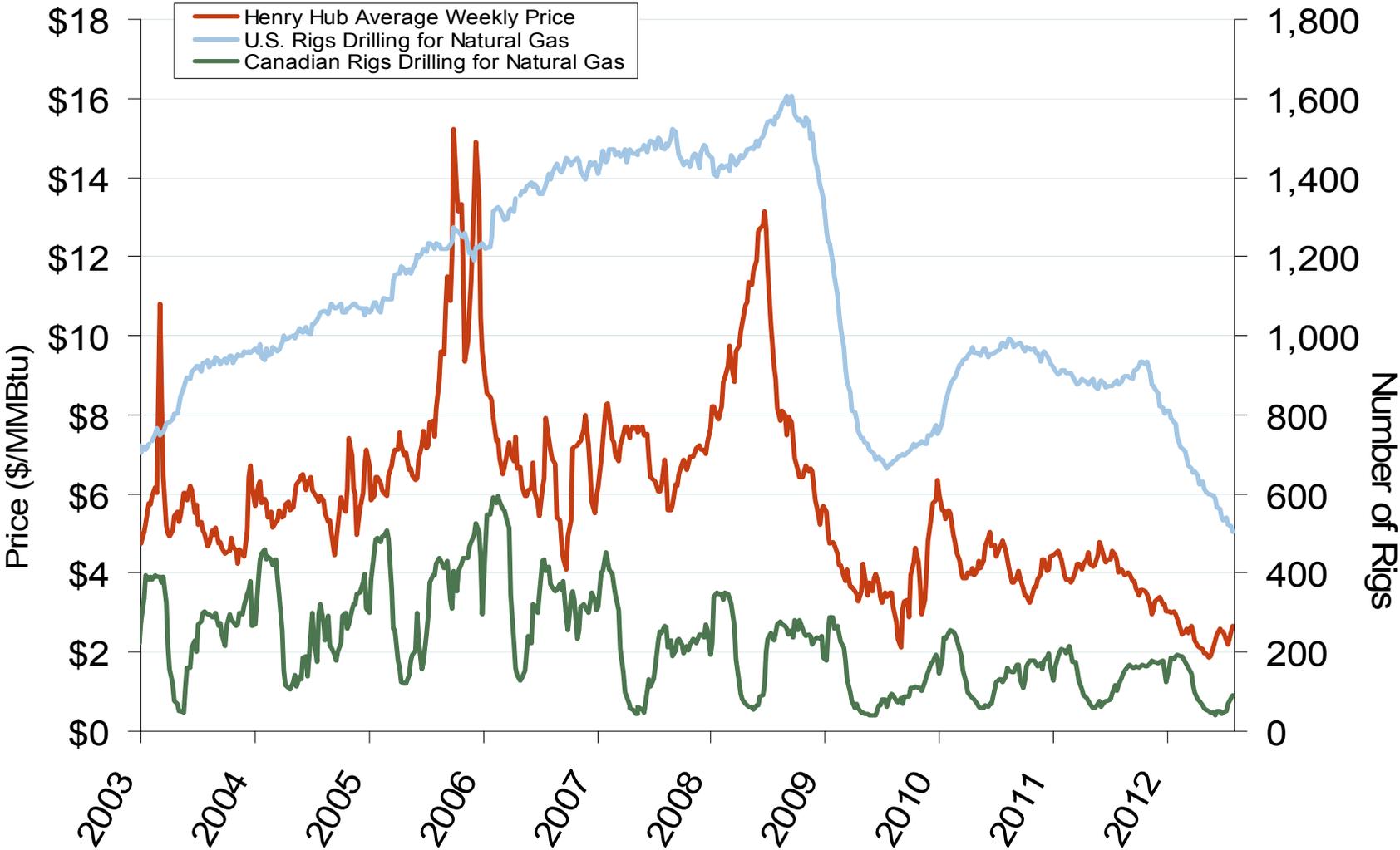


Note: Prior to July 2010, chart was derived from a combination of *EIA* and *Bentek Energy* data
Source: Derived from *Bentek Energy* data
August 2012 Western Snapshot Report

Natural Gas Market Overview: Drilling Rig Count

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

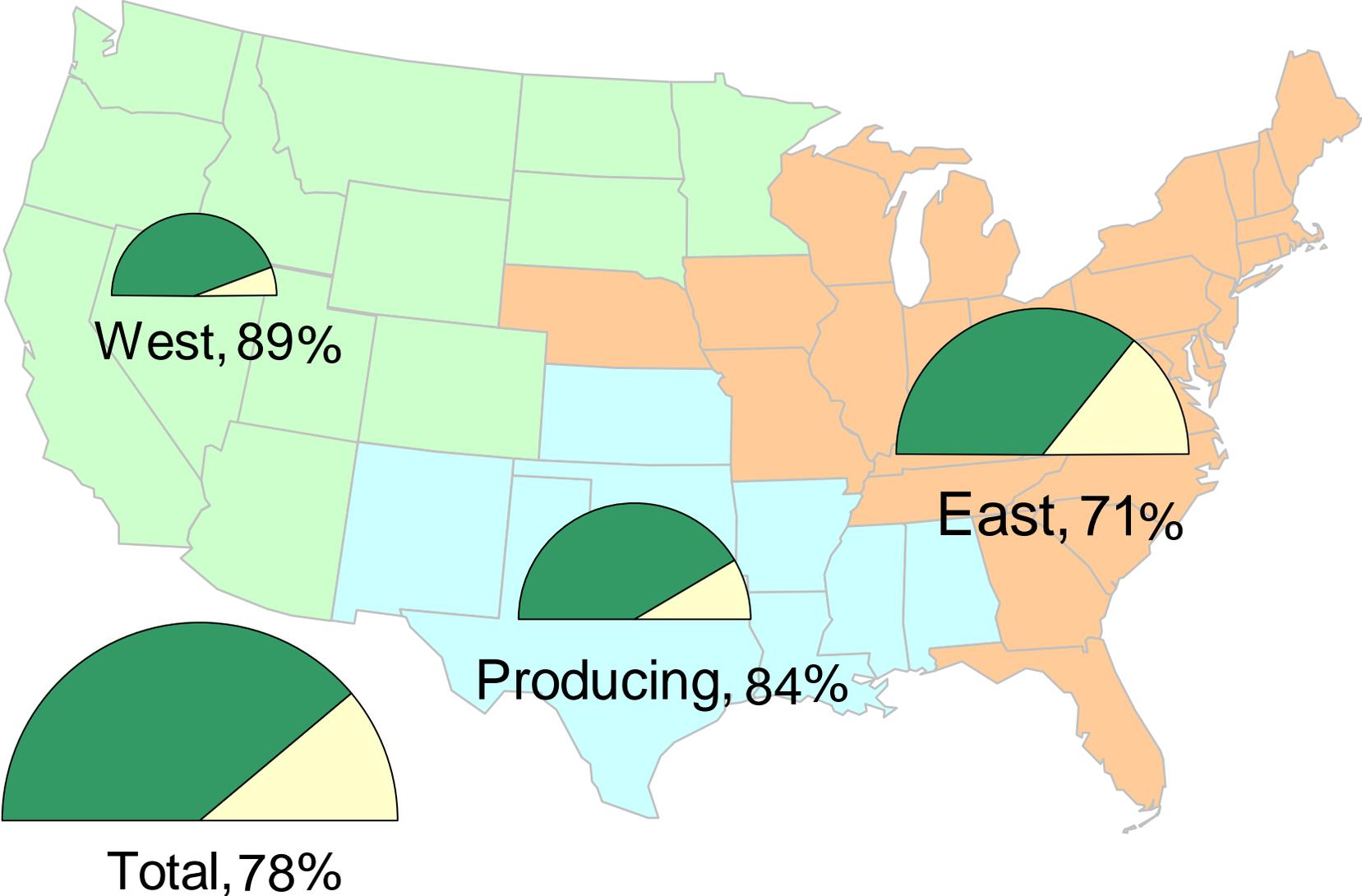
U.S. and Canadian NG Drilling Rig Count and Daily Spot Prices



Source: Derived from *Platts* and *Baker Hughes* data
August 2012 Western Snapshot Report

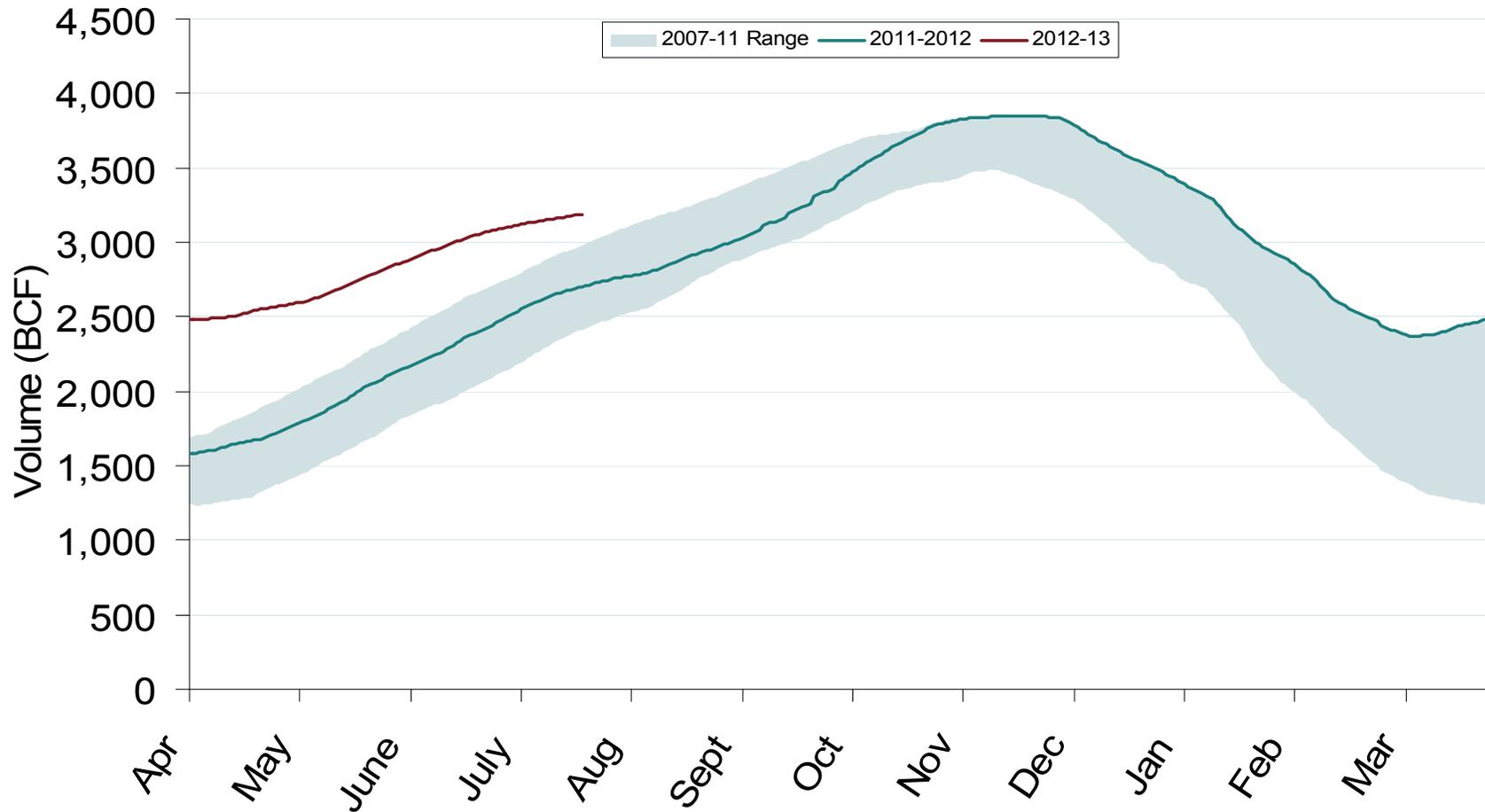
Updated: August 02, 2012

Natural Gas Storage Inventories – July 27, 2012

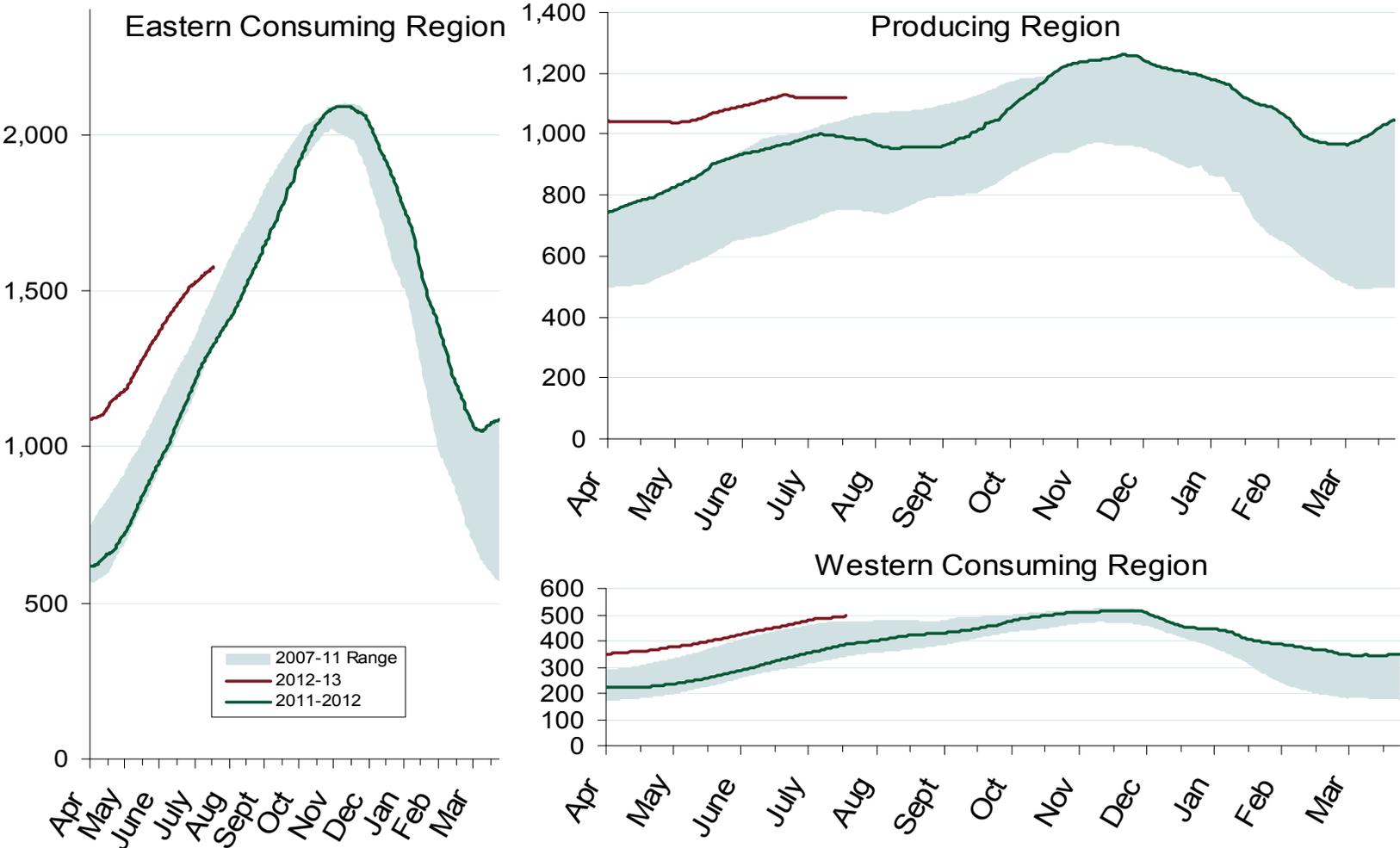


Source: Derived from EIA Storage and Estimated Working Gas Capacity data
August 2012 Western Snapshot Report

Total U.S. Working Gas in Storage



Regional Totals of Working Gas in Storage



Source: Derived from EIA data
August 2012 Western Snapshot Report

Updated: August 06, 2012

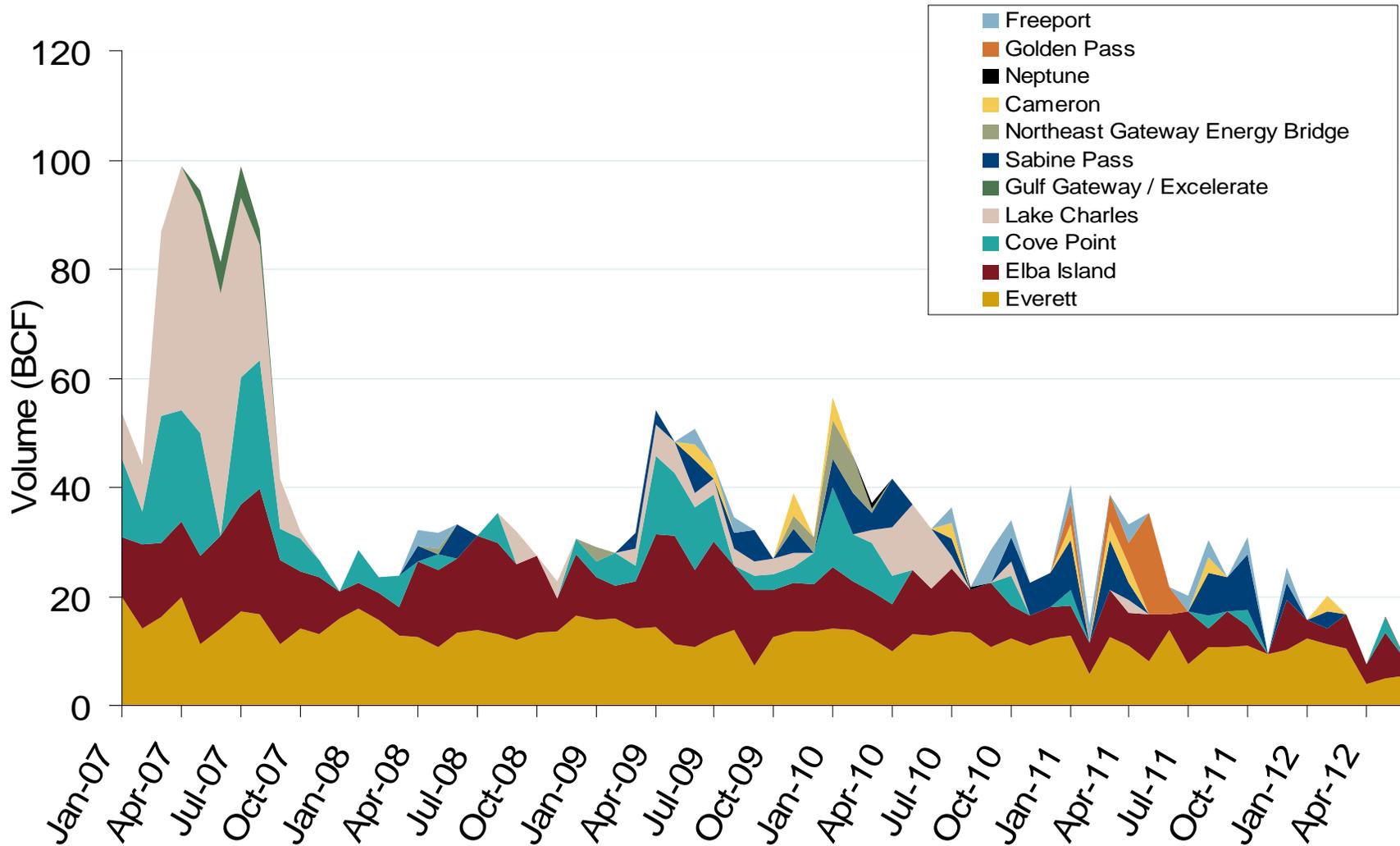
Natural Gas Overview: World LNG Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight**World LNG Estimated September 2012 Landed Prices**Source: *Waterborne Energy, Inc.* Data in \$US/MMBtu

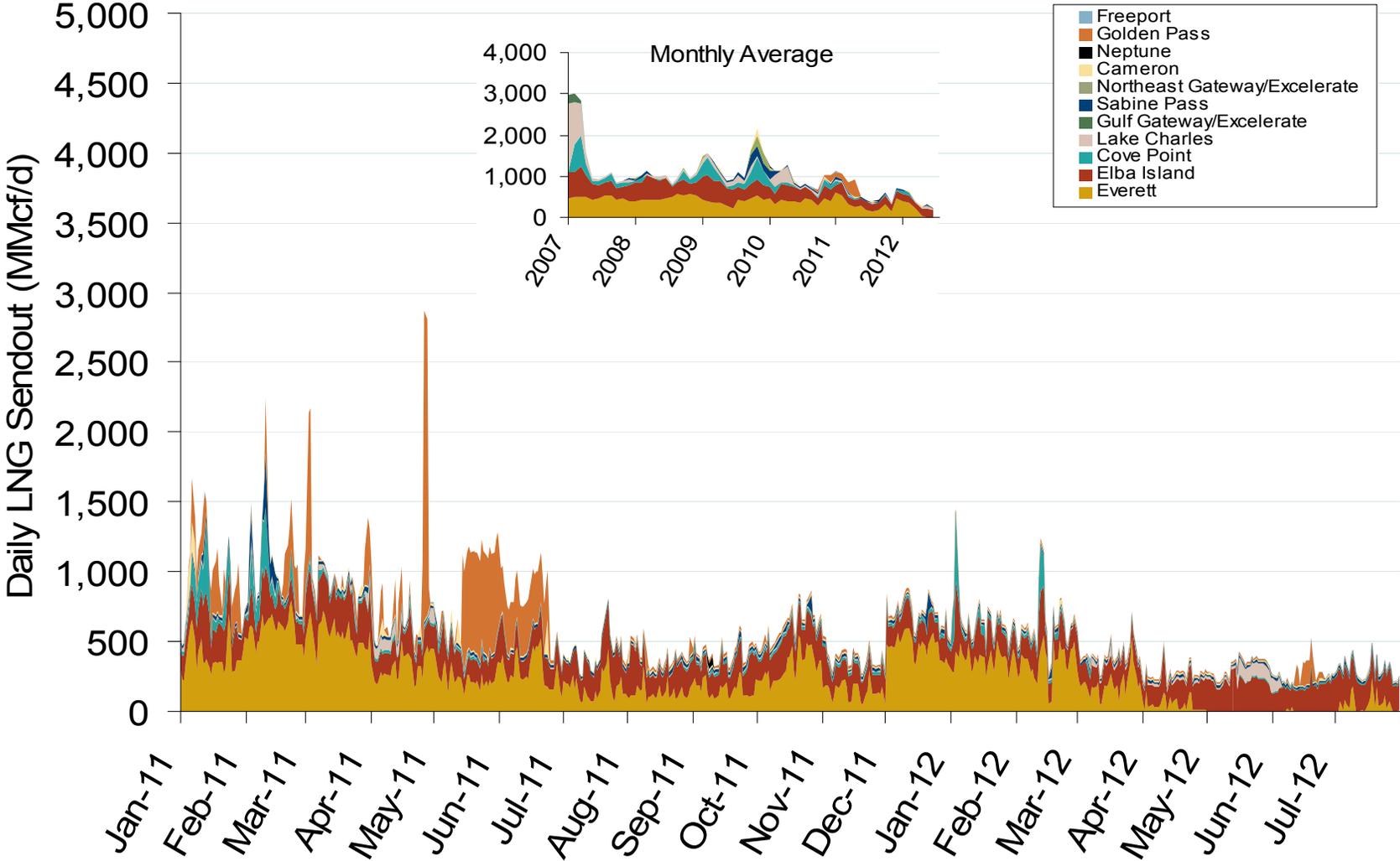
August 2012 Western Snapshot Report

Updated: August 8, 2012 3024

Monthly Gas Imports at Existing U.S. LNG Facilities



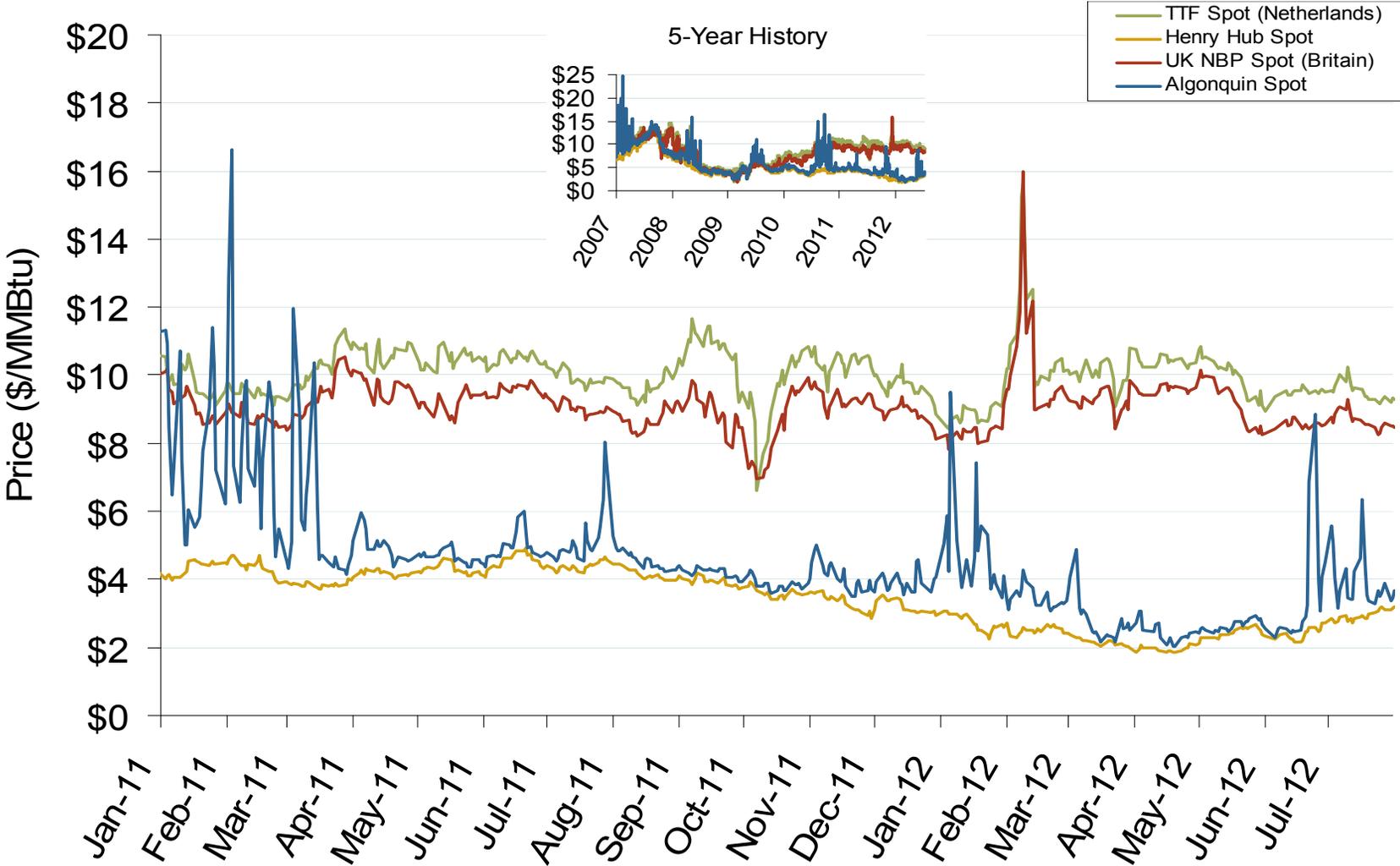
Daily Gas Sendout from Existing U.S. LNG Facilities



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

Atlantic Basin European and US Spot Natural Gas Prices



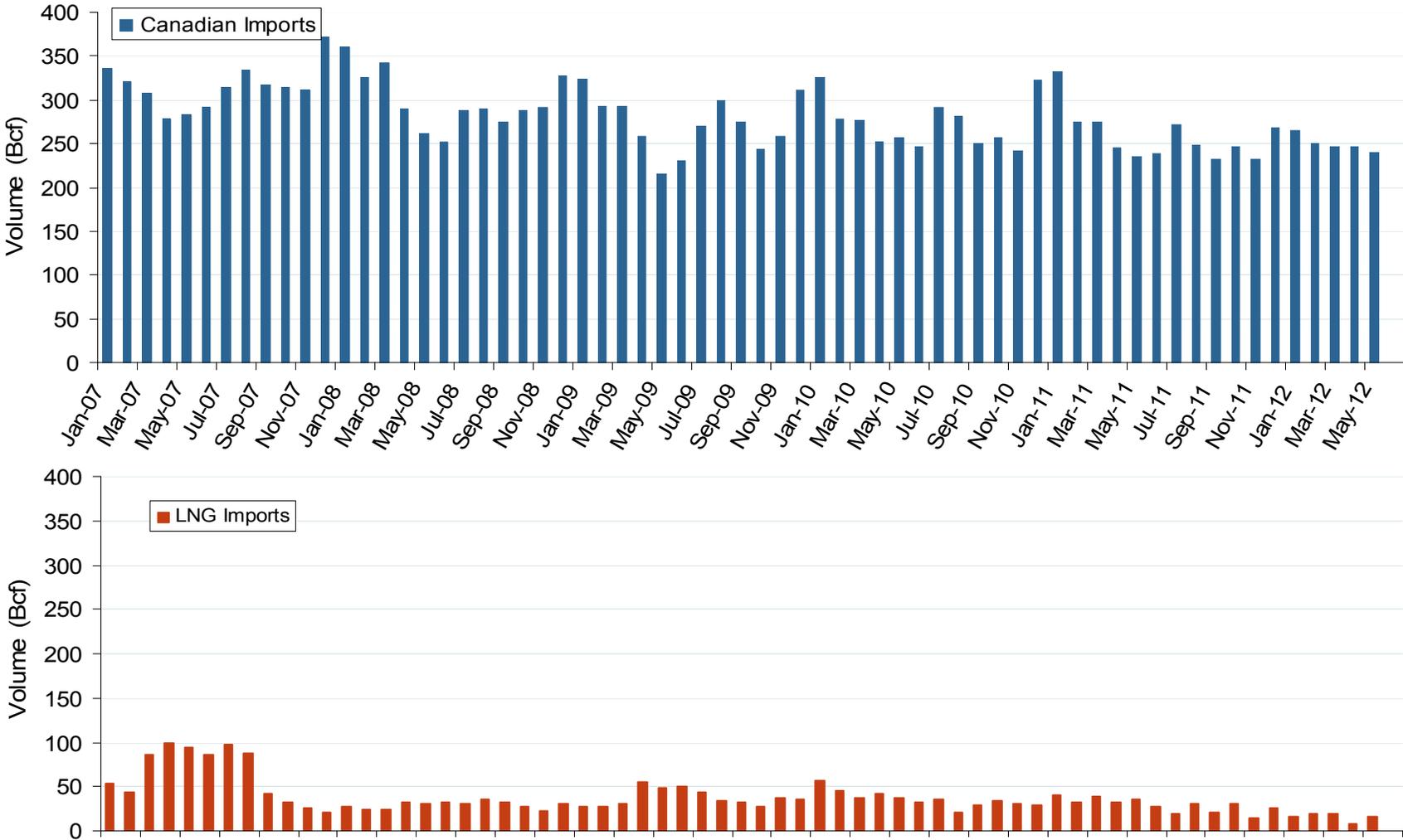
Source: Derived from *Bloomberg* and *ICE* data
August 2012 Western Snapshot Report

Updated: August 06, 2012

Natural Gas Overview: Natural Gas Imports

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

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



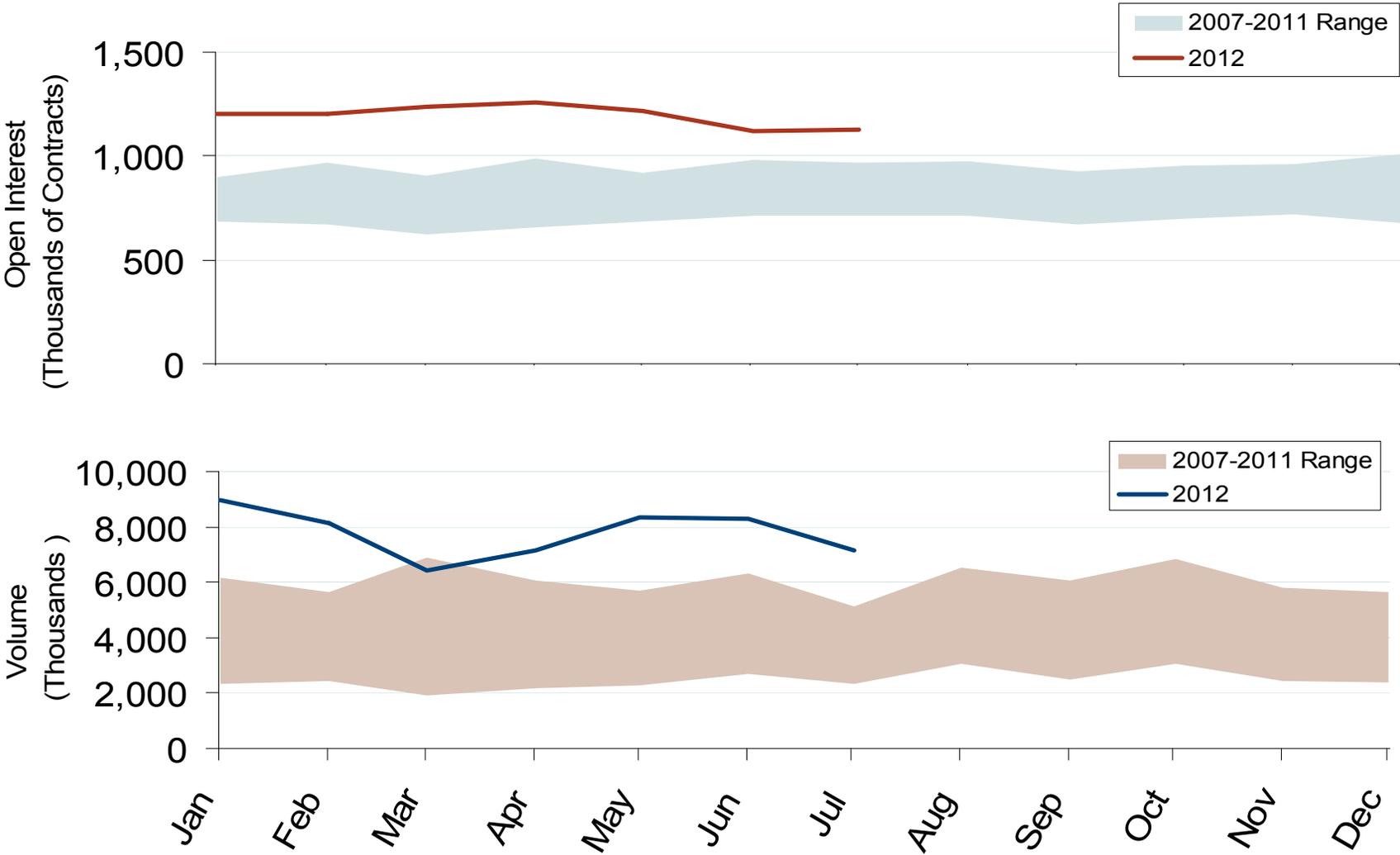
Source: EIA Natural Gas Monthly
August 2012 Western Snapshot Report

Updated: August 06, 2012

Natural Gas Trading: Futures Open Interest and Volume

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

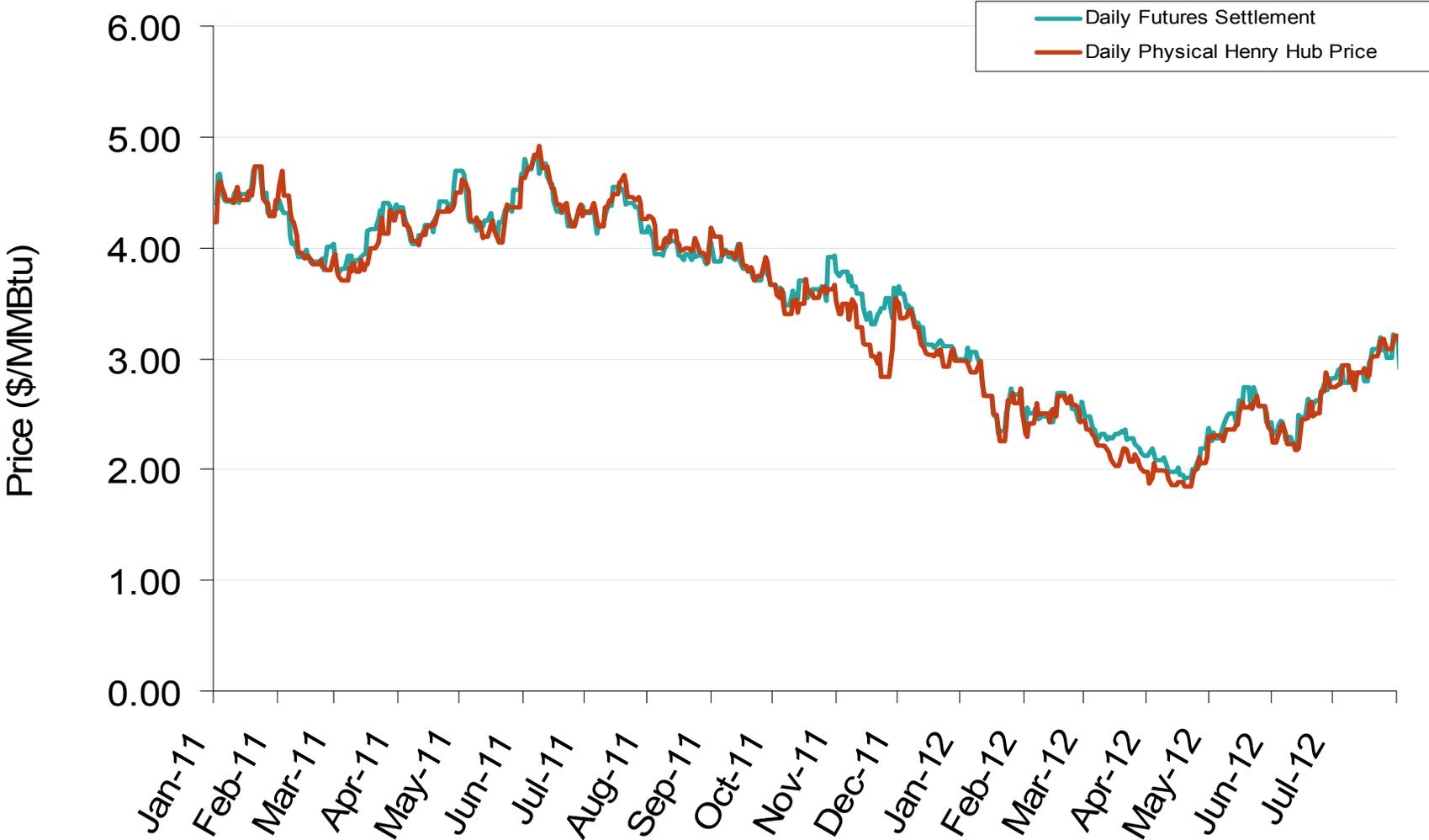
Nymex NG Futures Month-End Open Interest and Monthly Volume



Source: Derived from Nymex data
August 2012 Western Snapshot Report

Updated: August 06, 2012

Daily Physical Index Price & Daily Futures Settlement Price



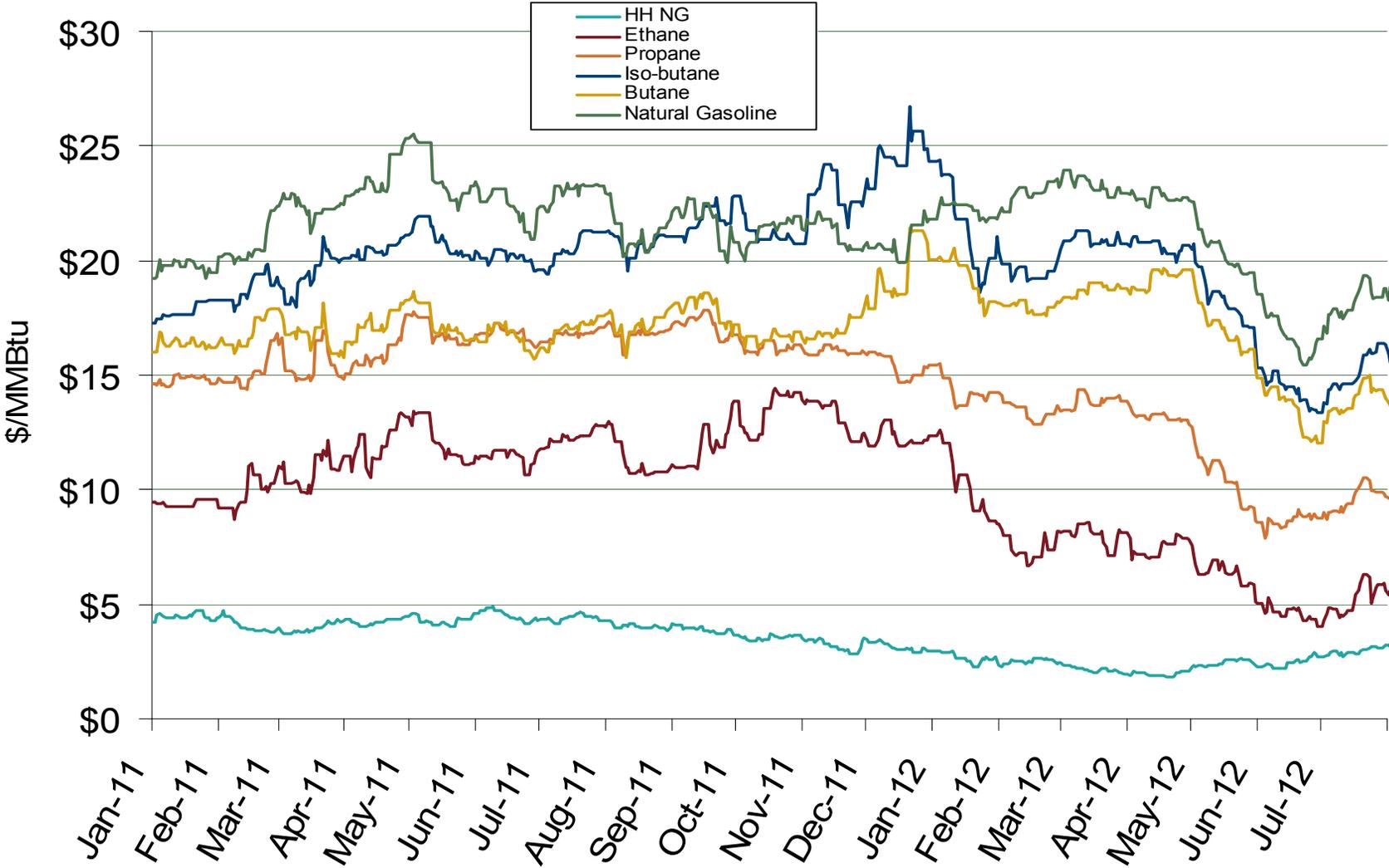
Source: Derived from *Bloomberg* data
August 2012 Western Snapshot Report

Updated: August 06, 2012

Natural Gas Market Overview: NGL Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

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



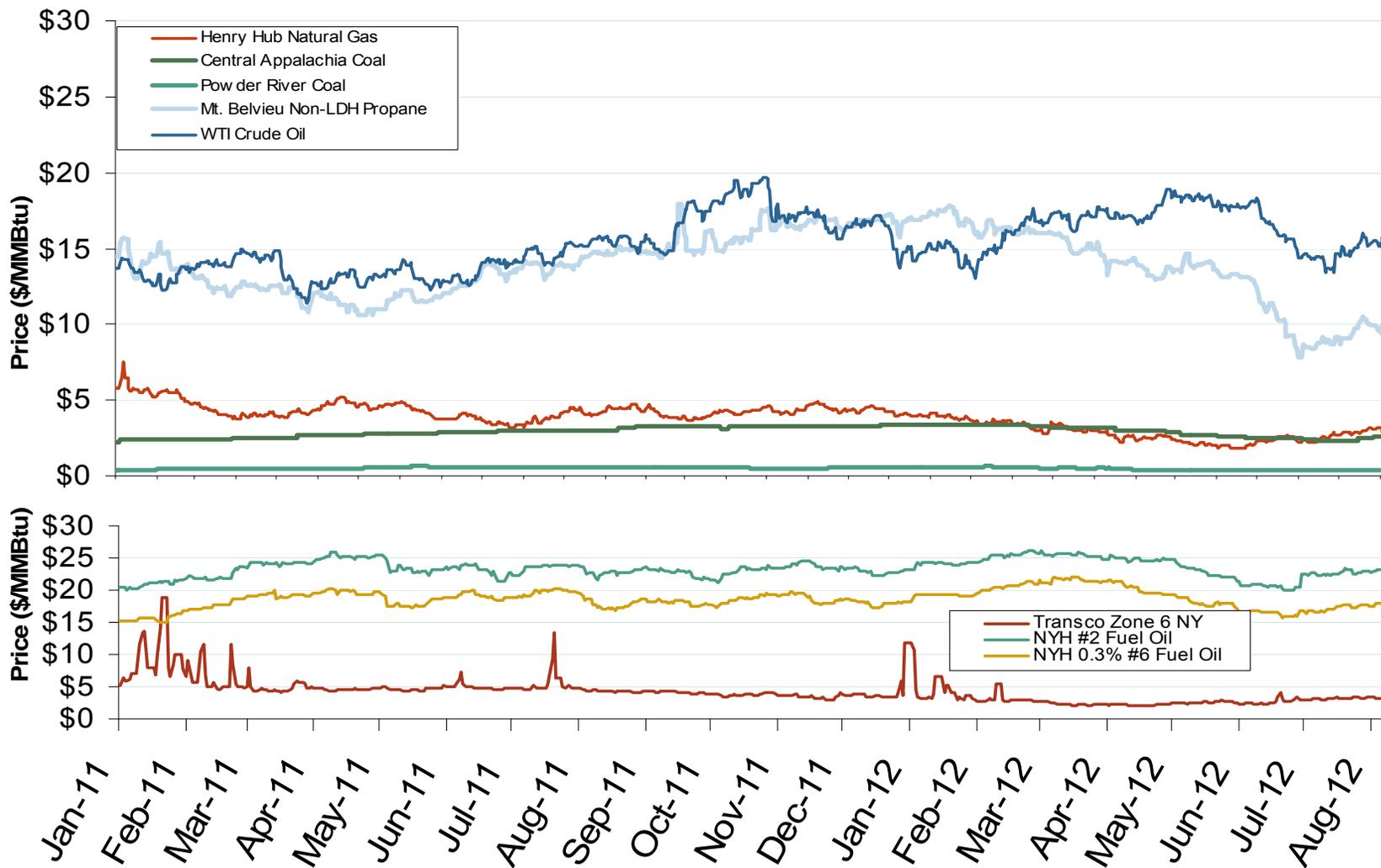
Source: Derived from Bloomberg Data
August 2012 Western Snapshot Report

Updated: August 06, 2012

Other Fuels Market: Fossil Fuel Prices

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight

Oil, Coal, Natural Gas and Propane Daily Spot Prices



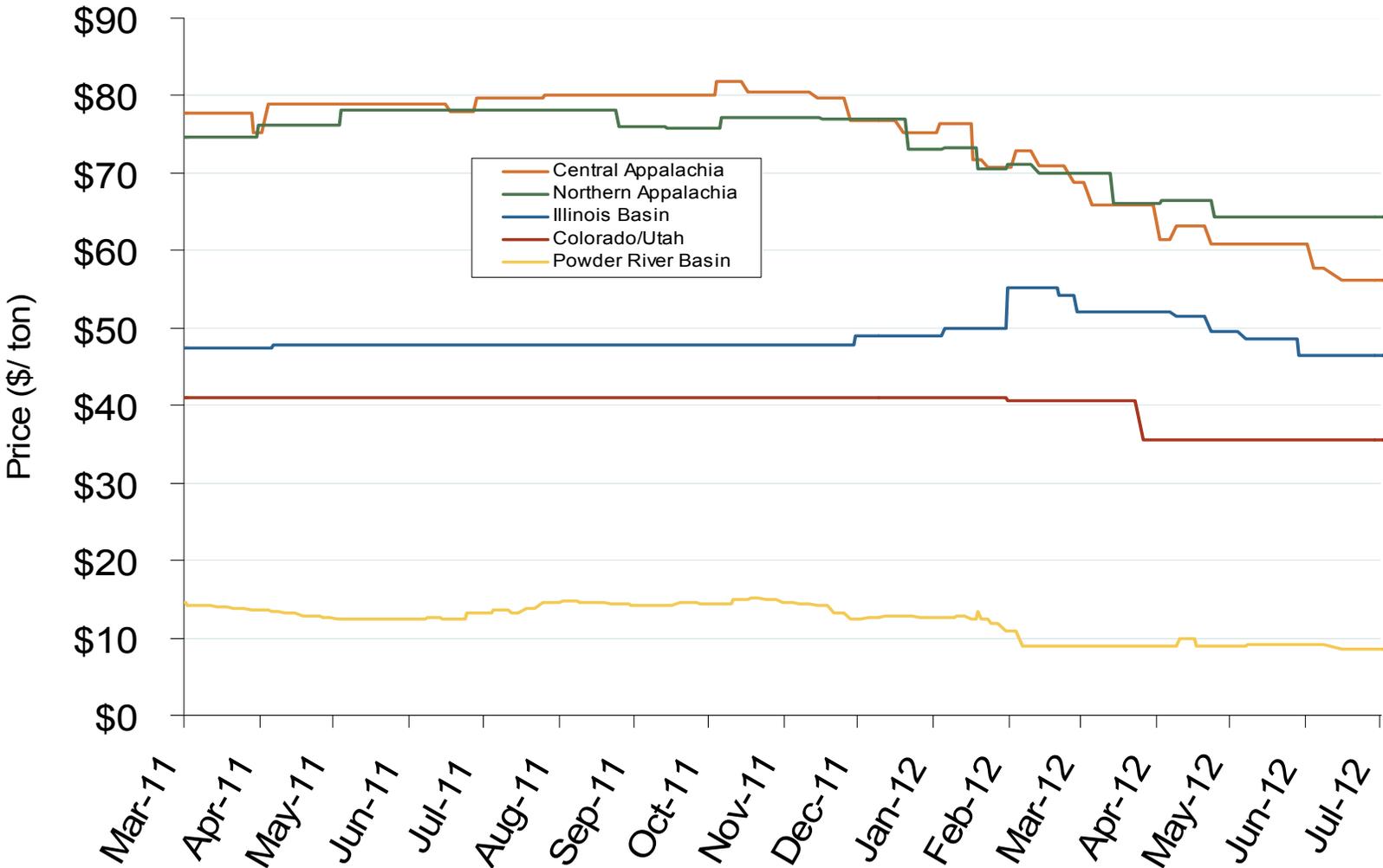
Notes: Coal prices are quoted in \$/ton. Conversion factors to \$/MMBtu are based on contract specifications of 12,000 btus/pound for Central Appalachian coal and 8800 btus/pound for Powder River Basin coal

Source: Derived from ICE and Bloomberg data

August 2012 Western Snapshot Report

Updated: August 06, 2012

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

August 2012 Western Snapshot Report

Updated: August 07, 2012

Other Fuels Market: U.S. Coal Stockpiles

Federal Energy Regulatory Commission • Market Oversight • www.ferc.gov/oversight**U.S. Coal Stockpiles at Electric Power Generating Facilities**