

OE ENERGY MARKET SNAPSHOT

Northeast States Version – November 2010 Data

- **Special Report**
- **Natural Gas and Fuel Markets**
- **Electricity Markets**

Office of Enforcement
Federal Energy Regulatory Commission
December 2010



Special Report:

- **2010 Report on Enforcement**



2010 REPORT ON ENFORCEMENT

Docket No. AD07-13-003

Released November 18, 2010

Report: <http://www.ferc.gov/legal/staff-reports/11-18-10-enforcement.pdf>

Presentation: <http://capitolconnection.net/capcon/ferc/111810/ferc111810.htm>

Office of Enforcement Priorities

Enforcement will continue to focus on matters involving:

- **Fraud and market manipulation;**
- **Serious violations of the reliability standards;**
- **Anticompetitive conduct; and**
- **Conduct that threatens the transparency of regulated markets.**

FERC Acts to Promote Transparency and Fairness

- **Penalty Guidelines**

- The Commission's issuance of the Penalty Guidelines provides for more uniform penalties, bringing more certainty and promoting fairness by ensuring similar penalties for similar violations.

- **Disclosure of Exculpatory Materials**

- The Commission's issuance of the Policy Statement on Disclosure of Exculpatory Materials in December 2009 formalizes Enforcement staff's practice relating to exculpatory materials and adopting the requirements of *Brady v. Maryland*.

- **Notices of Violation**

- The Commission's December 17, 2009 Order provides that a notice will be issued after Enforcement staff preliminarily concludes that a violation has occurred and after the subject of the investigation has had the opportunity to respond to the allegation. Commission has not yet ruled on petitions for rehearing.

Division of Investigations

Self-Reports, Investigations and Settlements

- **During fiscal year 2010, Investigations staff received 93 self-reports of violations, of which 54 were closed.**
- **Investigations staff opened 15 investigations and closed 16 investigations.**
- **The Commission approved six settlement agreements for a total of \$31 million in civil penalties and an additional \$280,000, plus interest, in disgorgement of unjust profits.**
- **Investigations staff assisted in a proceeding that resulted in a \$25,000,000 disbursement from a disgorgement fund resulting from the settlement of a manipulation claim against Energy Transfer Partners in fiscal year 2009.**

Reliability

- **Notices of Penalty**

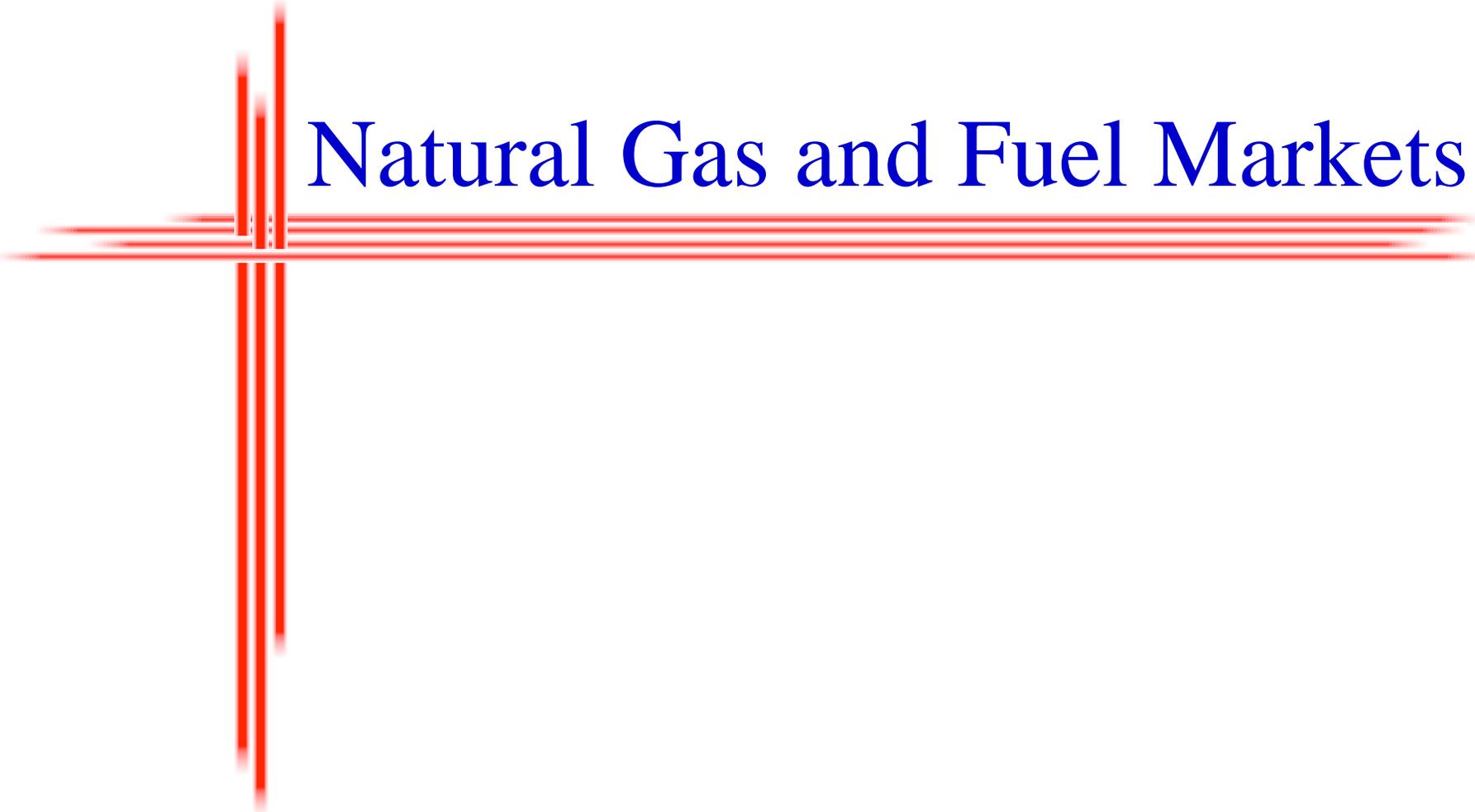
- Investigations staff reviewed approximately 1,300 violations in 190 Notices of Penalty filed by NERC pursuant to the Electric Reliability Organization's Compliance Monitoring and Enforcement Program.
- Two "Omnibus" filings with a total of 626 violations.

Division of Audits

- **Audits staff completed 52 audits of public utilities and natural gas pipeline and storage companies last year.**
- **These audits generated 210 recommendations for corrective action and included \$4.1 million in monetary recoveries.**
- **Audits staff addressed several significant accounting issues including the International Financial Reporting Standards and the Capitalization of Interest During Construction.**

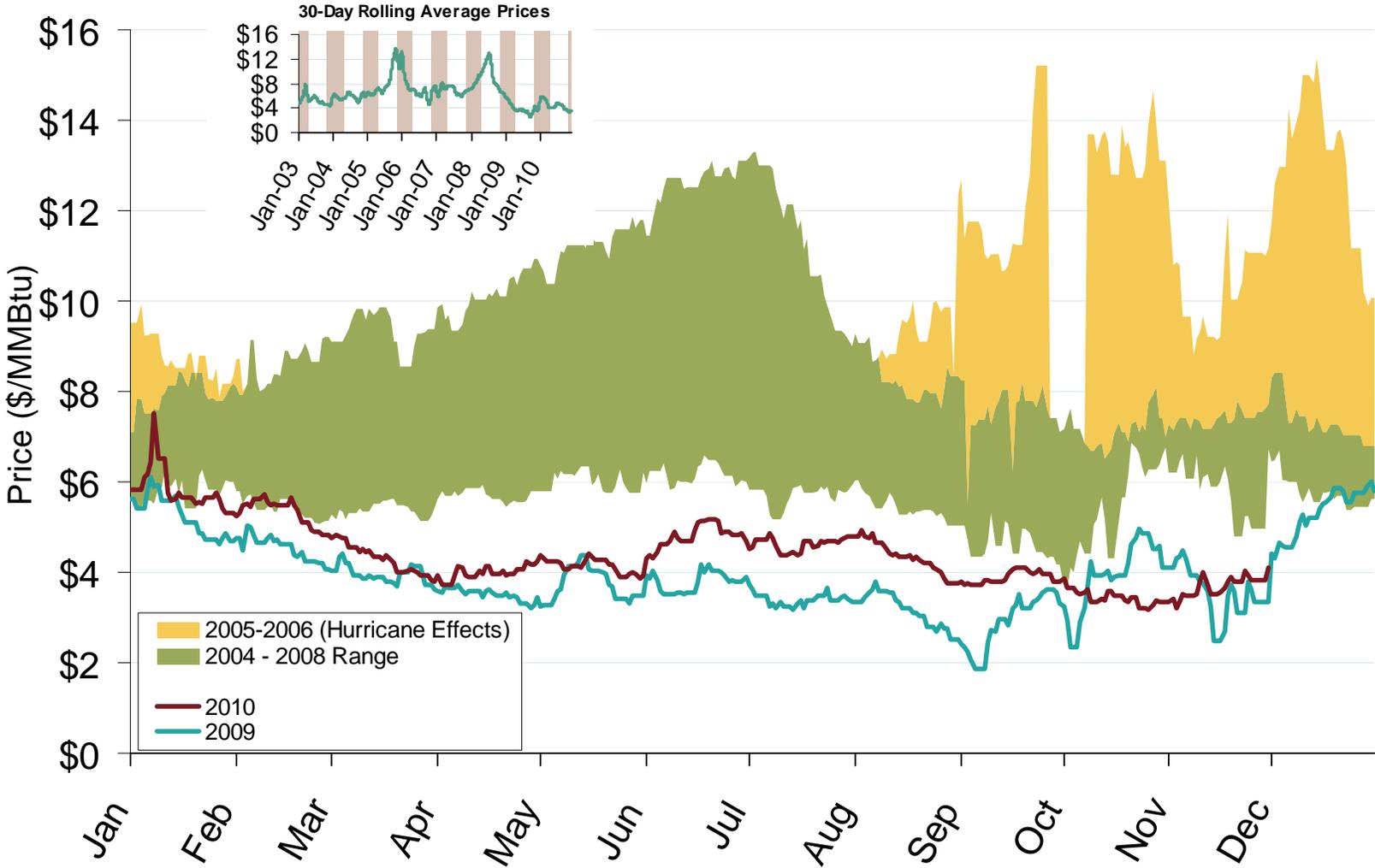
Market Oversight

- **Market Monitoring**
 - Annual and Seasonal Reports
 - Capacity Reassignment Report
 - Pipeline Capacity Release Review – Upcoming
- **Technical Analysis**
- **Outreach**
- **Forms Compliance**
 - Review of over 3,000 respondents submissions on 15 different forms
- **Transparency Orders**
 - Order No. 704-C Clarification Regarding Form No. 552
 - Order No. 720 Clarifications on Non-Interstate Pipeline Posting Requirements
 - Electric Transparency Notice of Inquiry



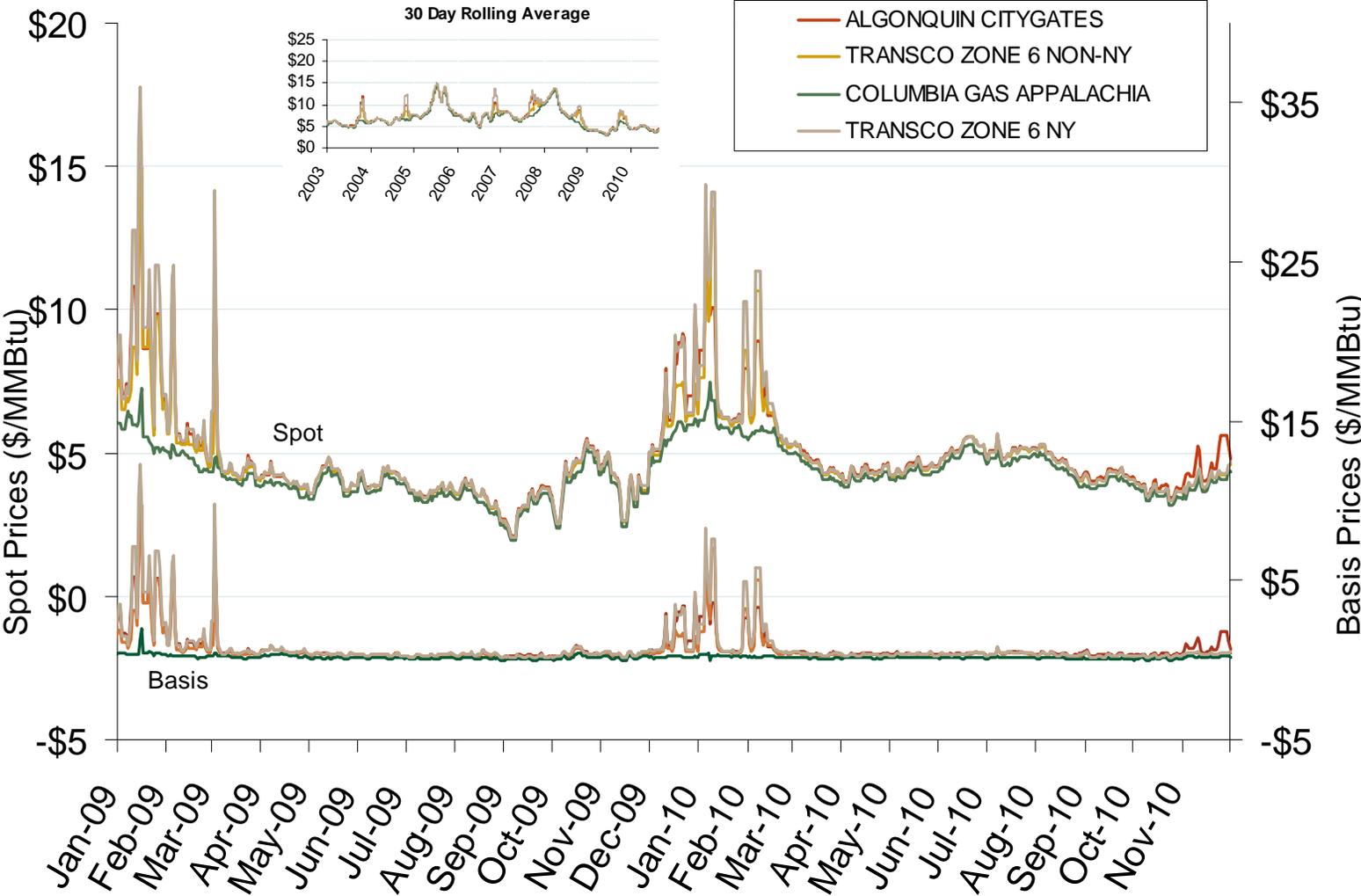
Natural Gas and Fuel Markets

Henry Hub Natural Gas Daily Spot Prices



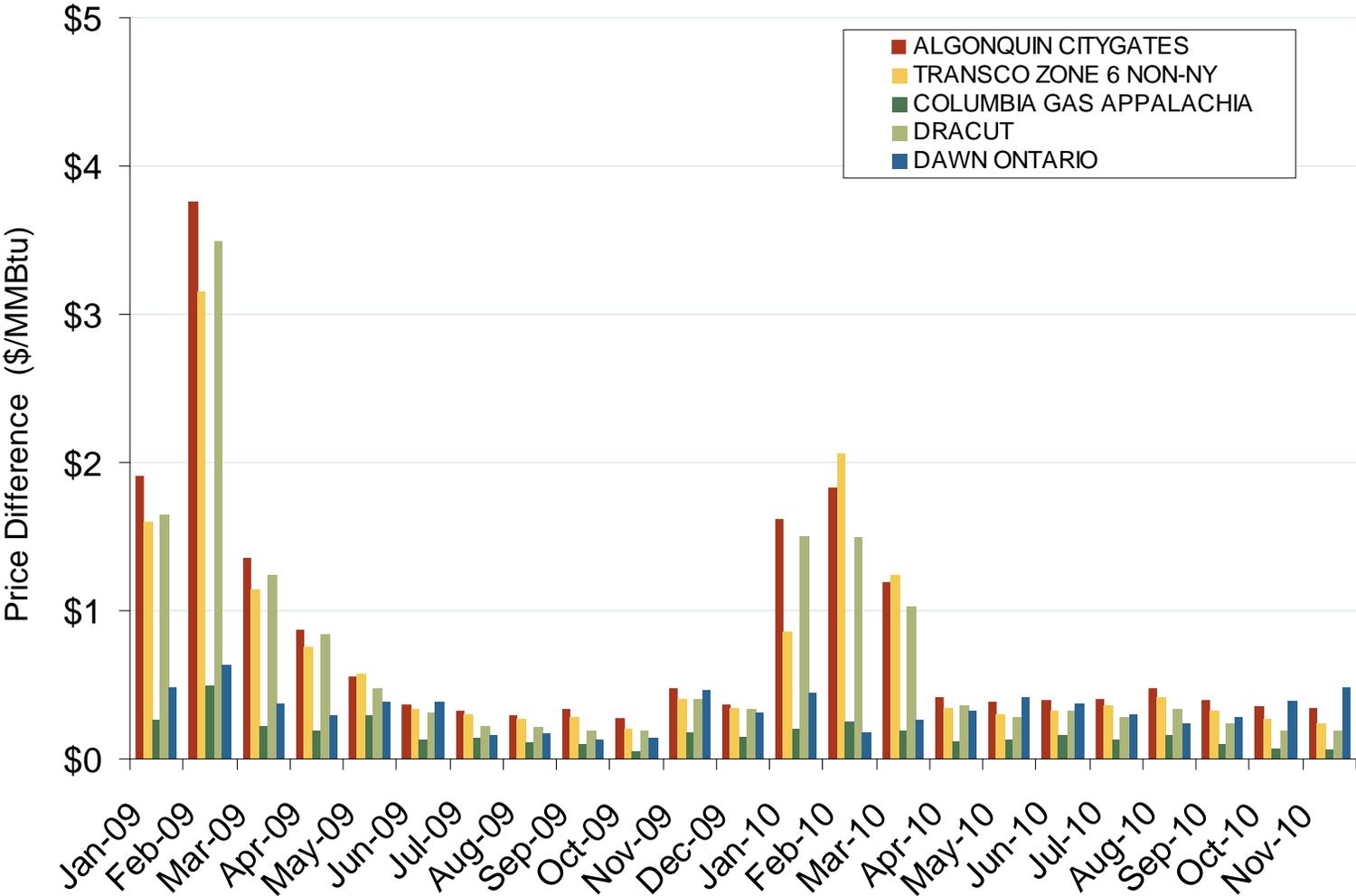
Source: Derived from *Platts* data.
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Northeastern Spot Prices and Basis



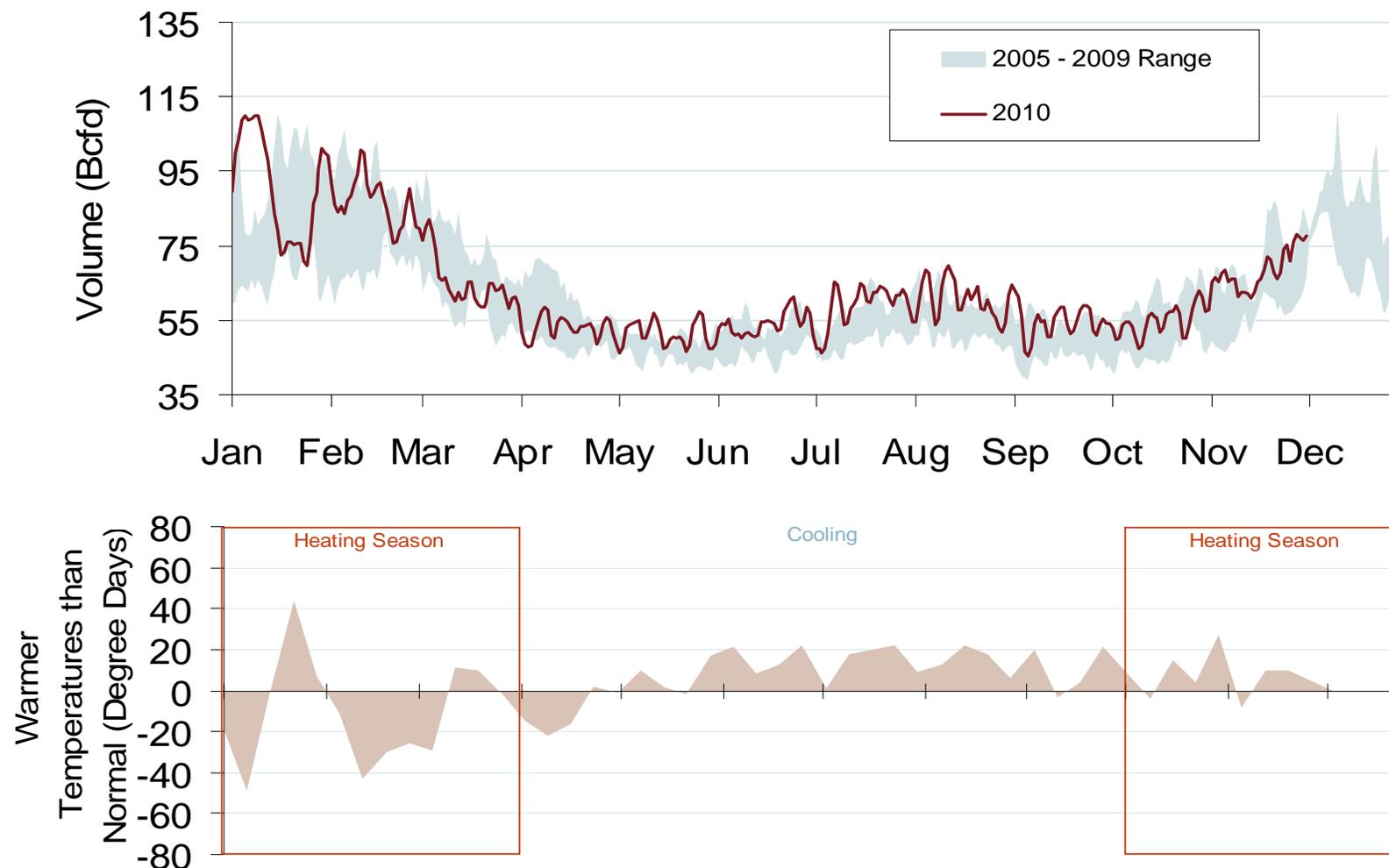
Source: Derived from *Platts* data.
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Northeastern Monthly Average Basis Value to Henry Hub

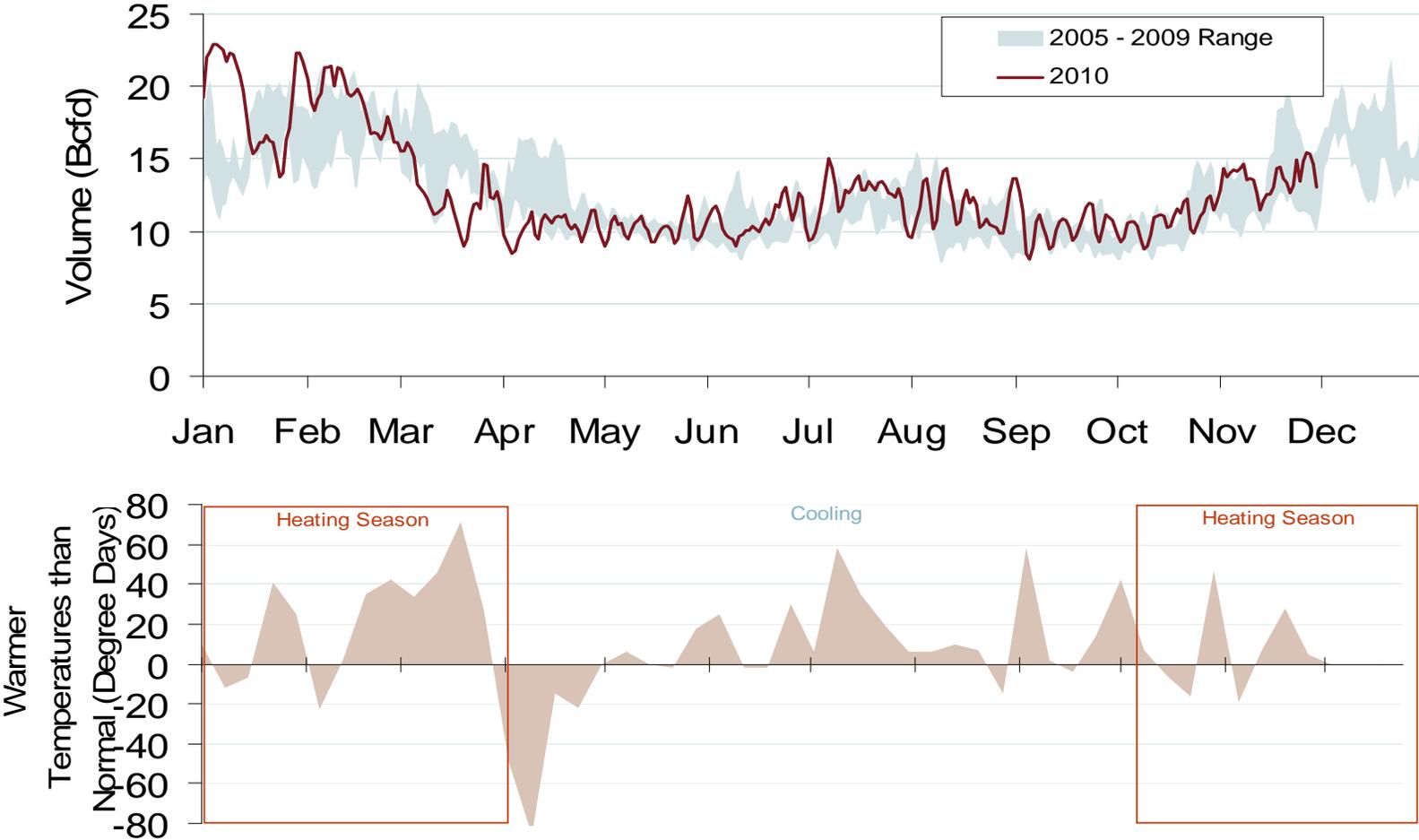


Source: Derived from *Platts* data.
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Total U.S. Natural Gas Demand (All Sectors) and Temperatures

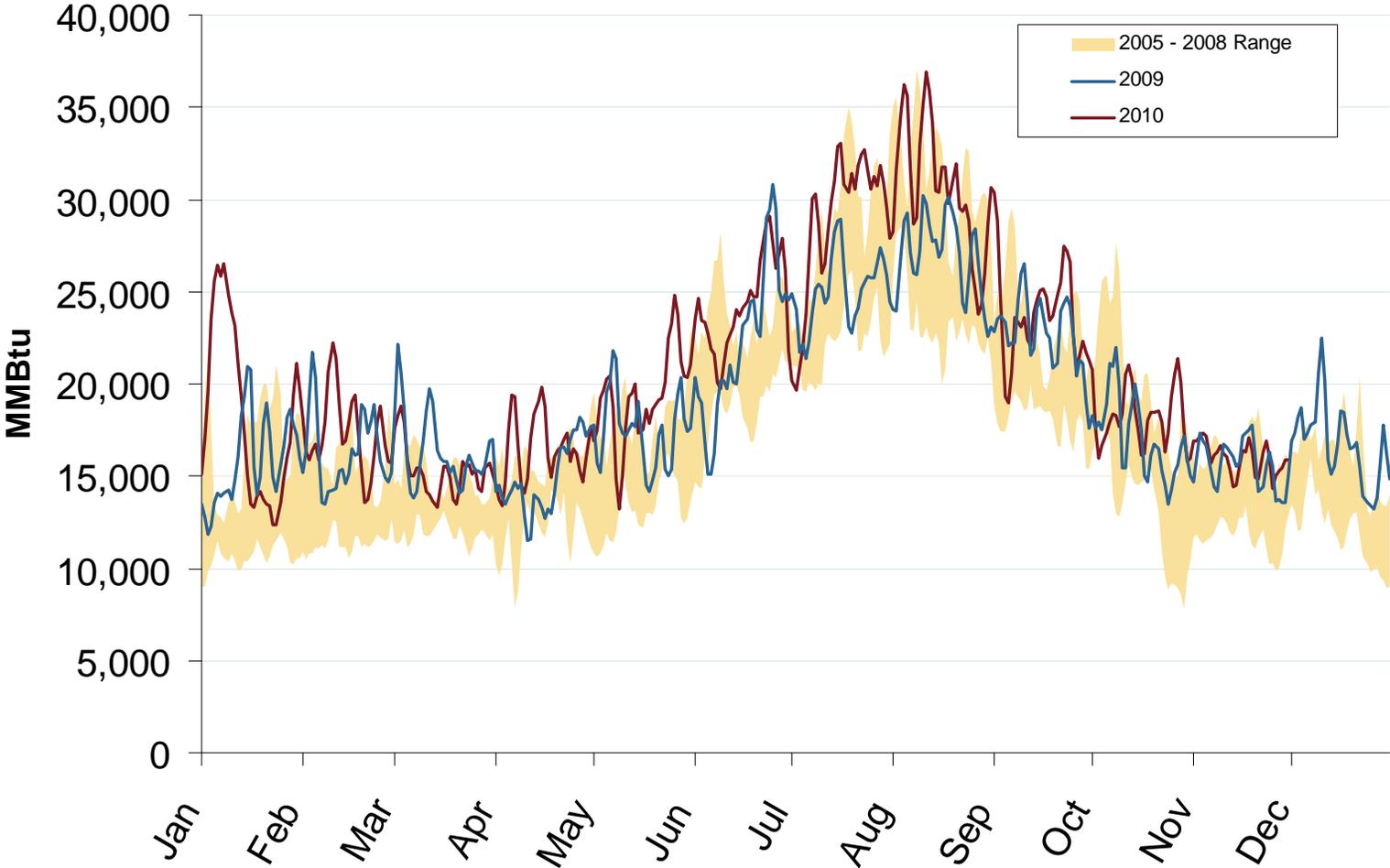


Daily Northeast Natural Gas Demand All Sectors



Source: Derived from Bentek Energy and Weekly NOAA data.
December 2010 Northeast Snapshot Report

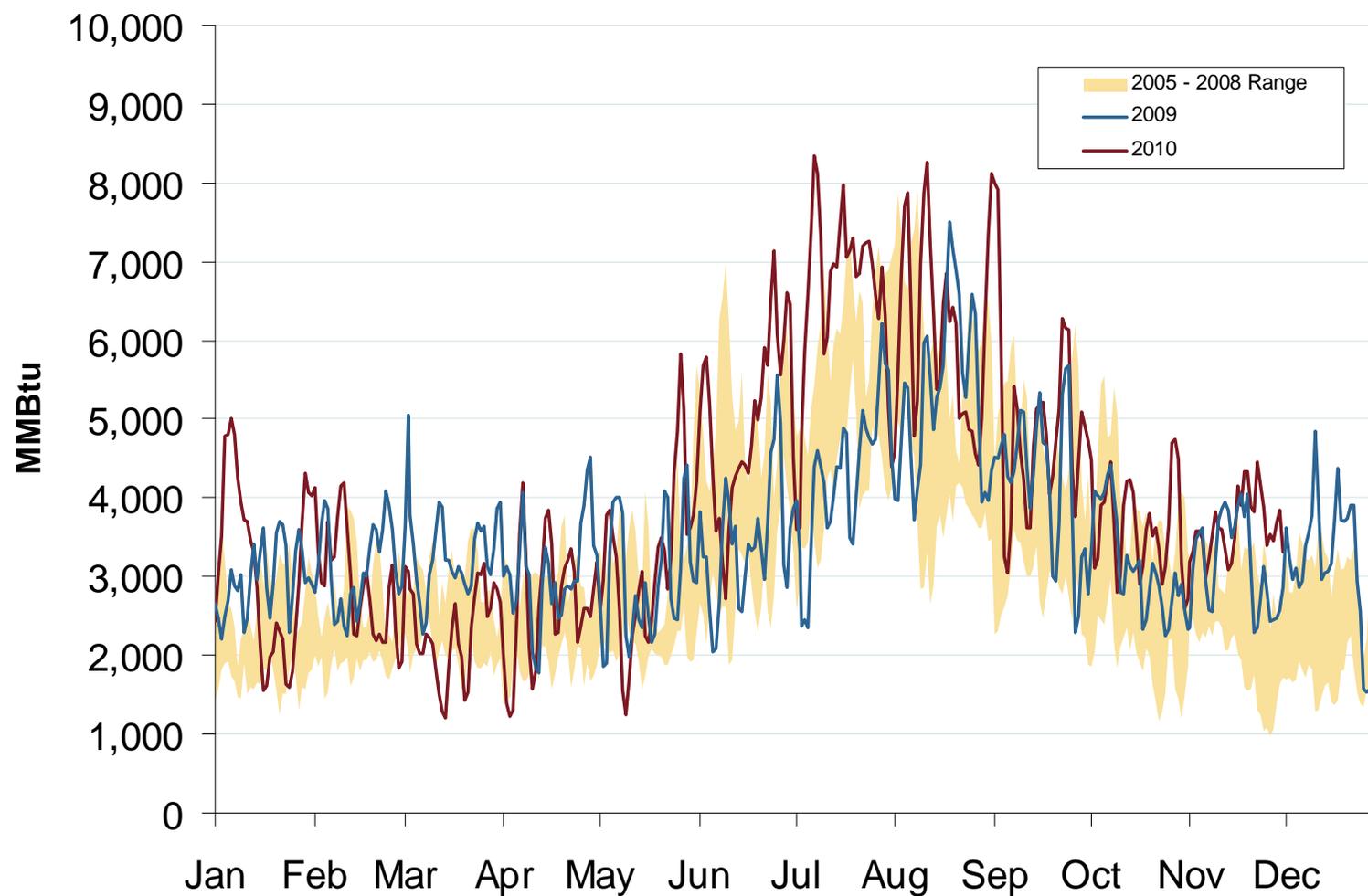
U.S. Natural Gas Consumption for Power Generation



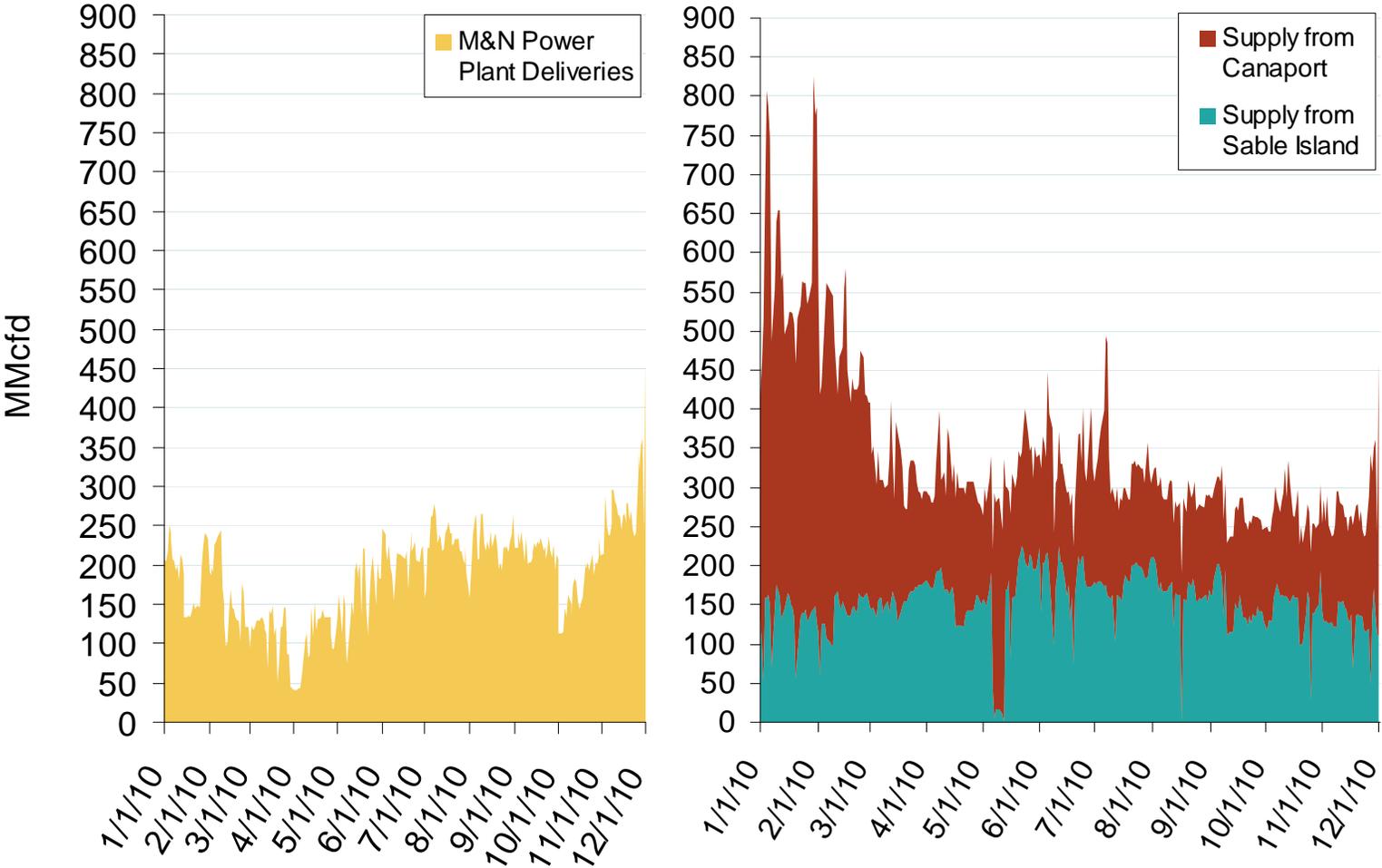
Northeast Natural Gas Market: NG Consumption for Power Generation

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Northeast Natural Gas Consumption for Power Generation

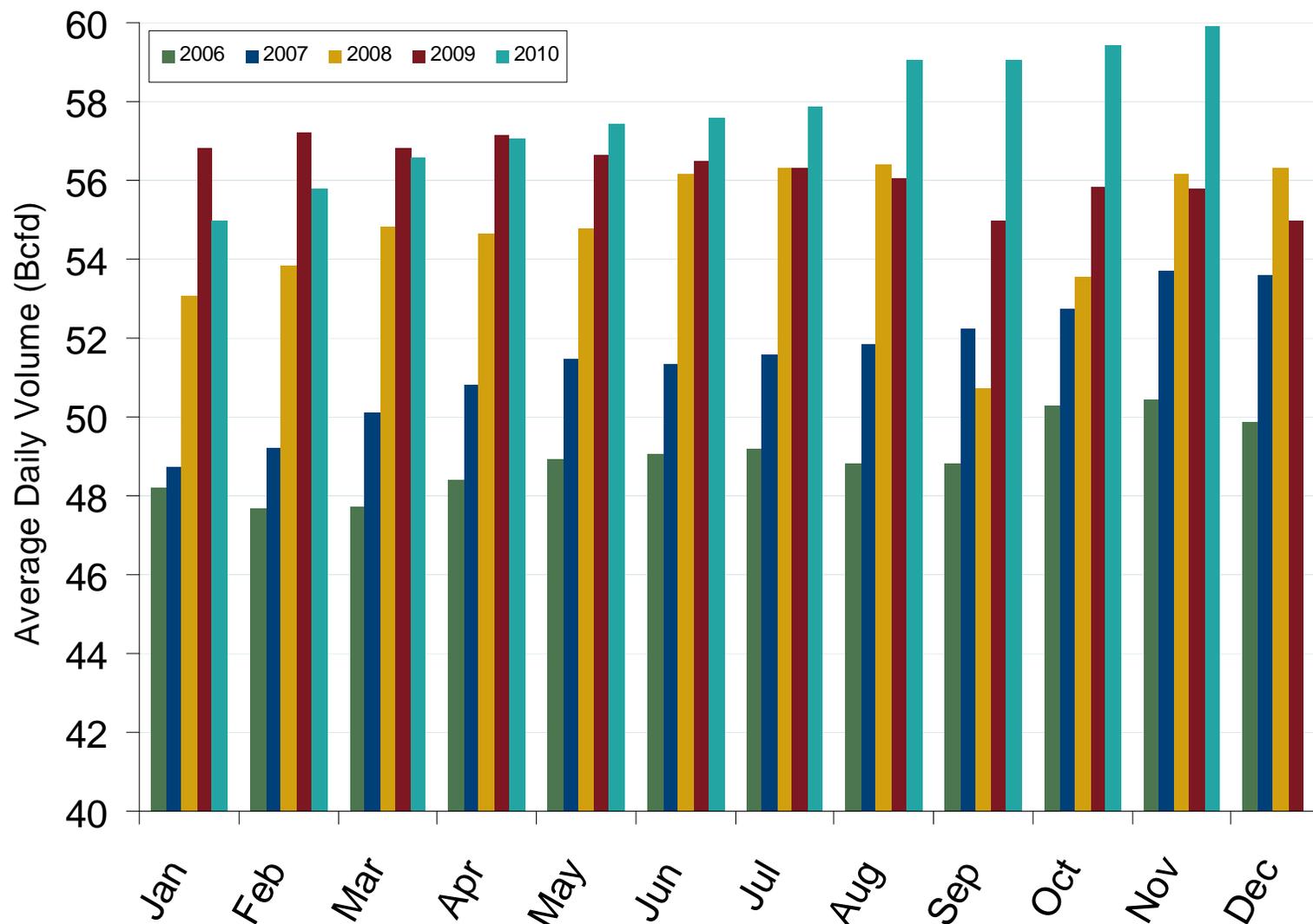


Maritimes Pipeline Flows



Source: Derived from *Bentek* data.
December 2010 Northeast Snapshot Report

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

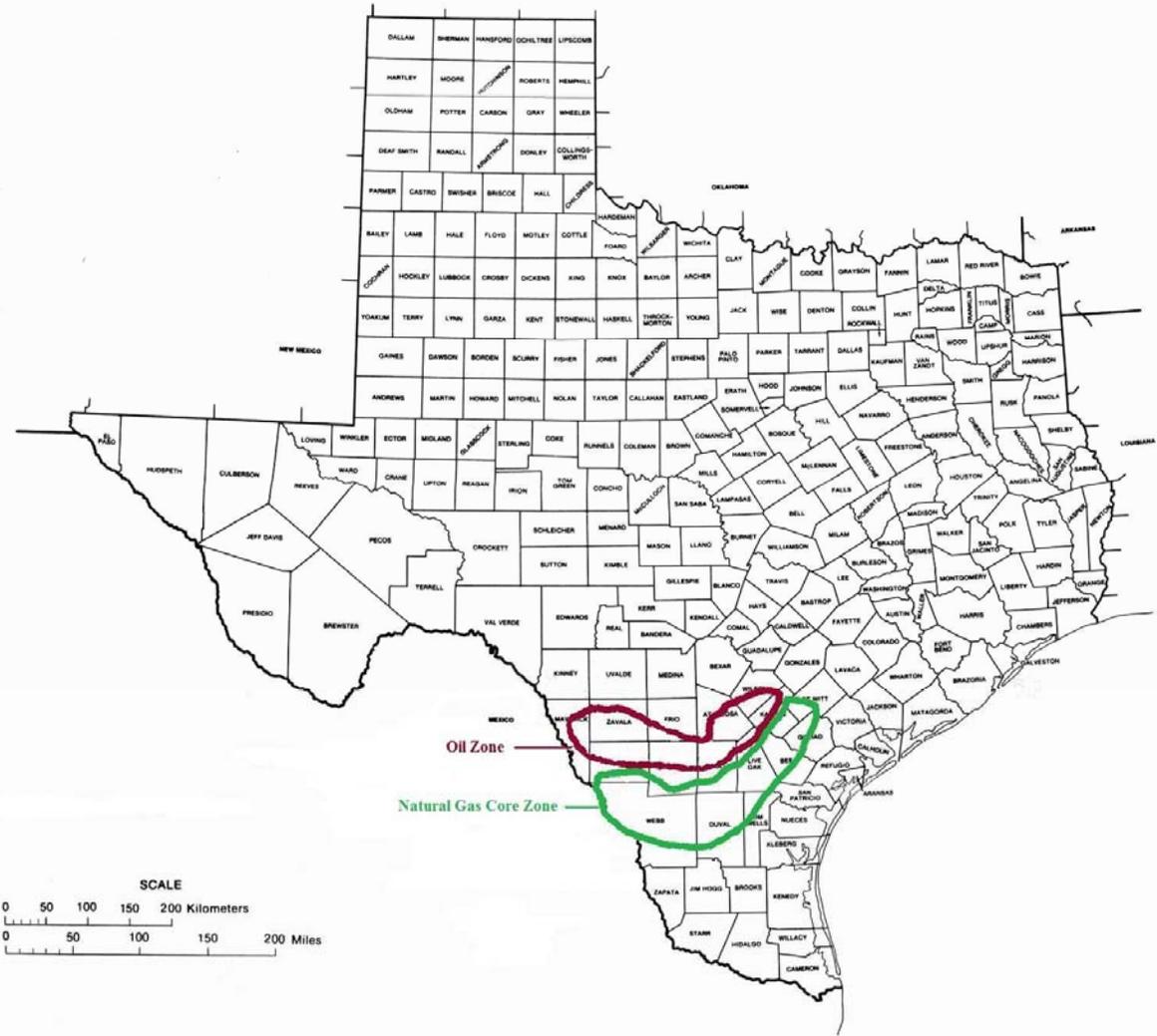


Source: Derived from *Bentek* data.

Note: Prior to July 2010, chart was derived from a combination of EIA and Bentek data
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Updated December 8, 2010 20021

Eagle Ford Shale, Texas



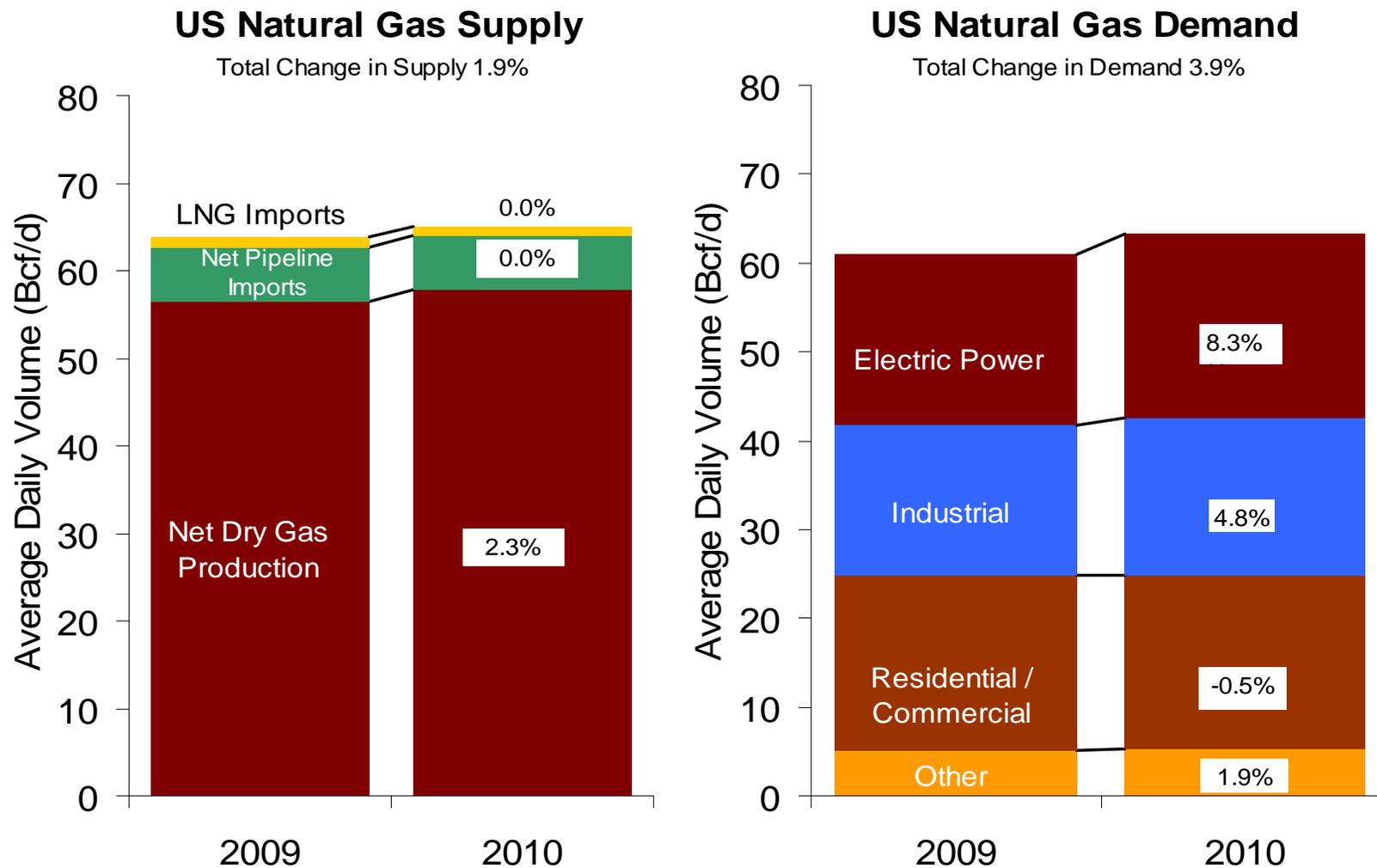
Source: Derived from oilshalegas.com
December 2010 Northeast Snapshot Report

Updated November 30, 2010

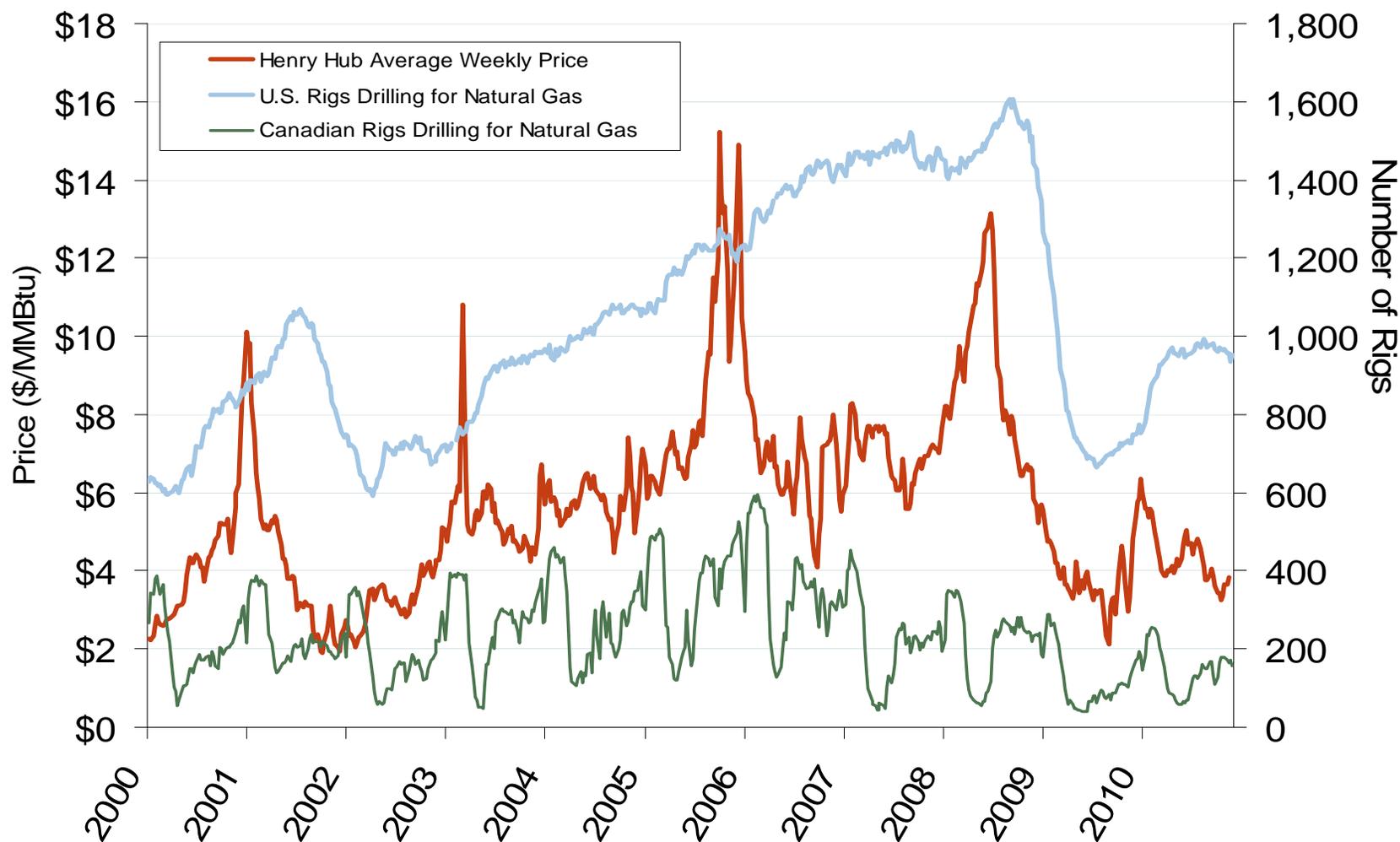
Eagle Ford Shale Boosts South Texas Production

- **South Texas production exceeds 5 Bcfd, up 250 MMcfd from July.**
- **Rig count as of November 26 stand at 231, up 83 since recent low in May 2009.**
- **Eagle Ford well starts reached 150 during October, compared to less than 80 in January.**
- **The top 4 operators are EOG Resources, ConocoPhillips, Anadarko, and Chesapeake.**
- **The 6th largest operator, Petrohawk, is rumored to be pulling out of the Haynesville Shale to concentrate its efforts in the Eagle Ford.**
- **Increased interest in Eagle Ford due in part to the higher content of valuable natural gas liquids in the production stream.**

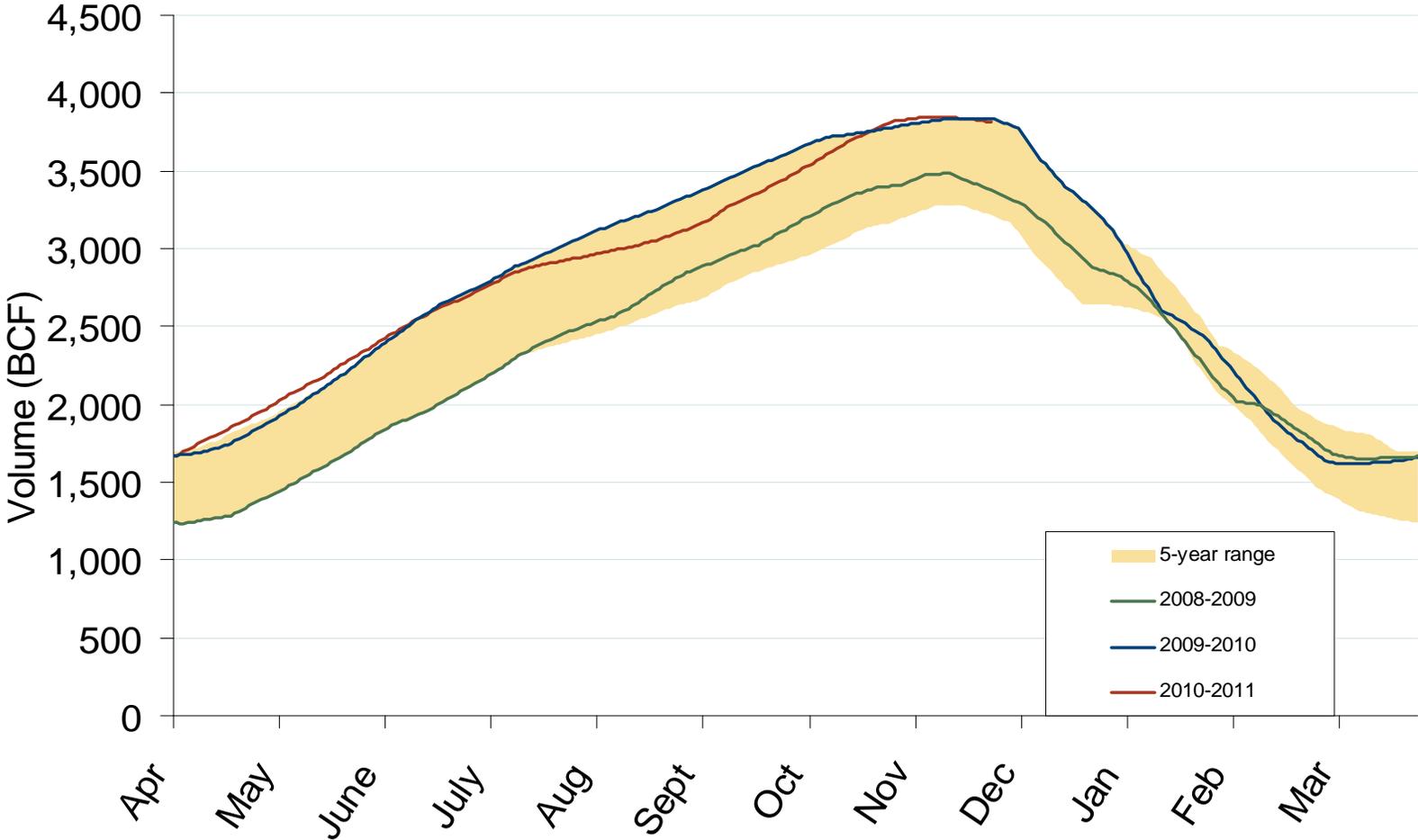
U.S. Natural Gas Supply and Demand 2009 vs. 2010: January - October



U.S. and Canadian Natural Gas Drilling Rig Count and Daily Spot Prices



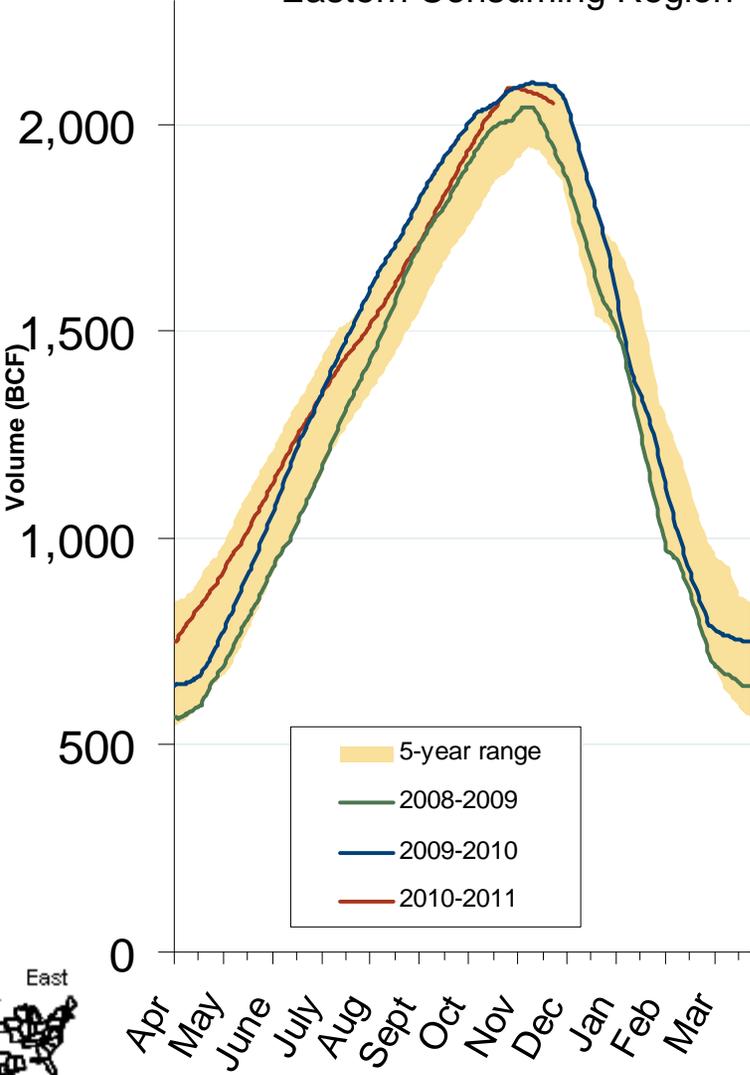
Total U.S. Working Gas in Storage



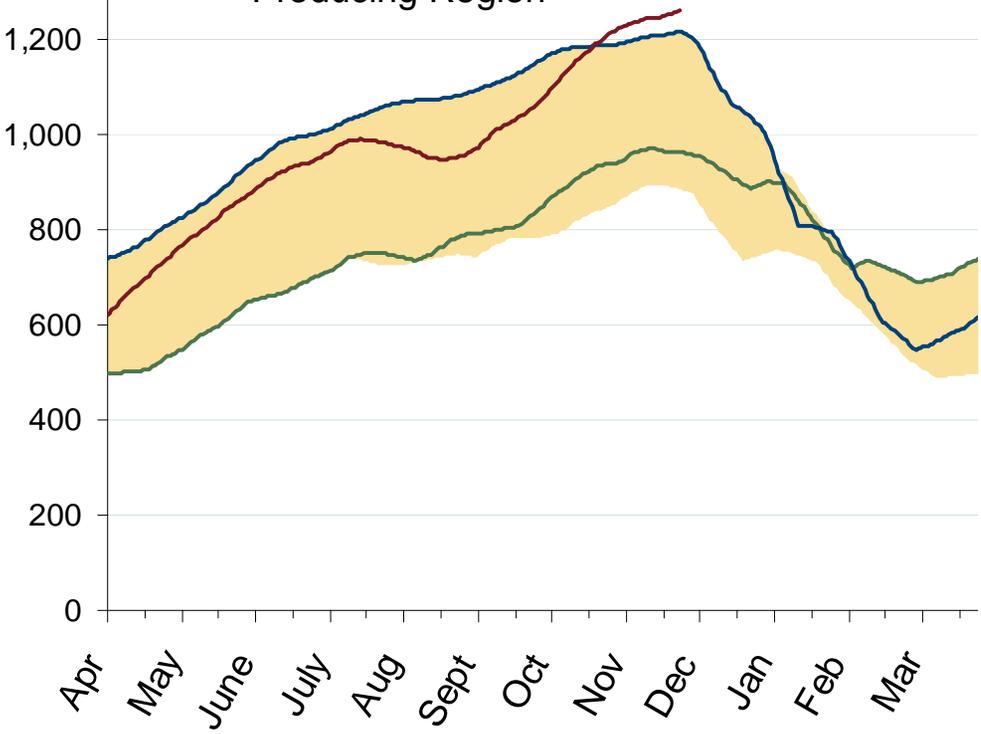
Source: Derived from EIA data.
December 2010 Northeast Snapshot Report

Regional Totals of Working Gas in Storage

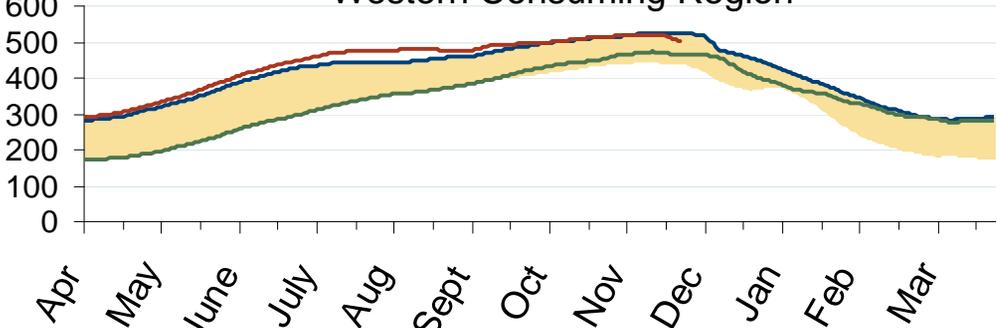
Eastern Consuming Region



Producing Region



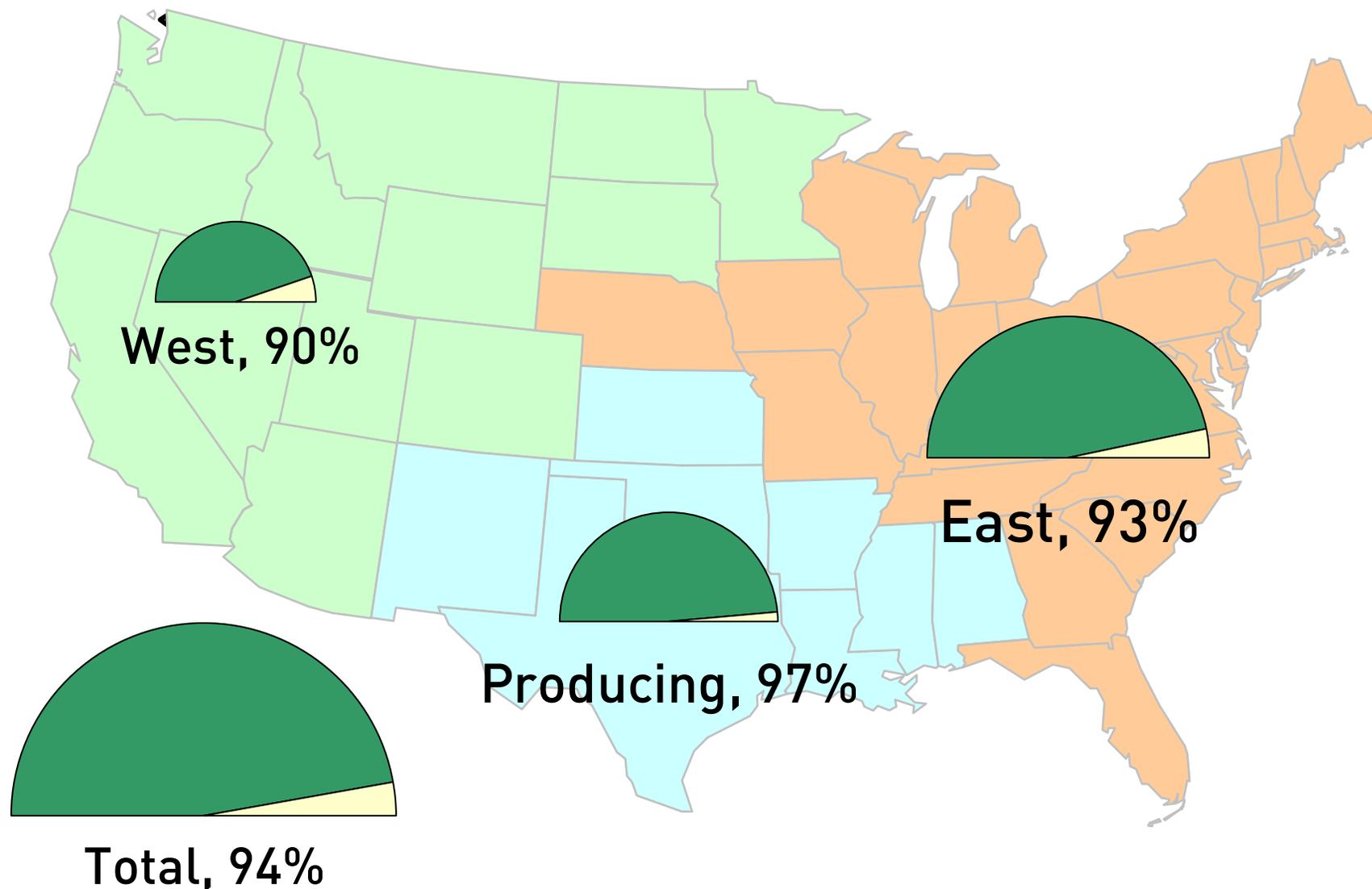
Western Consuming Region



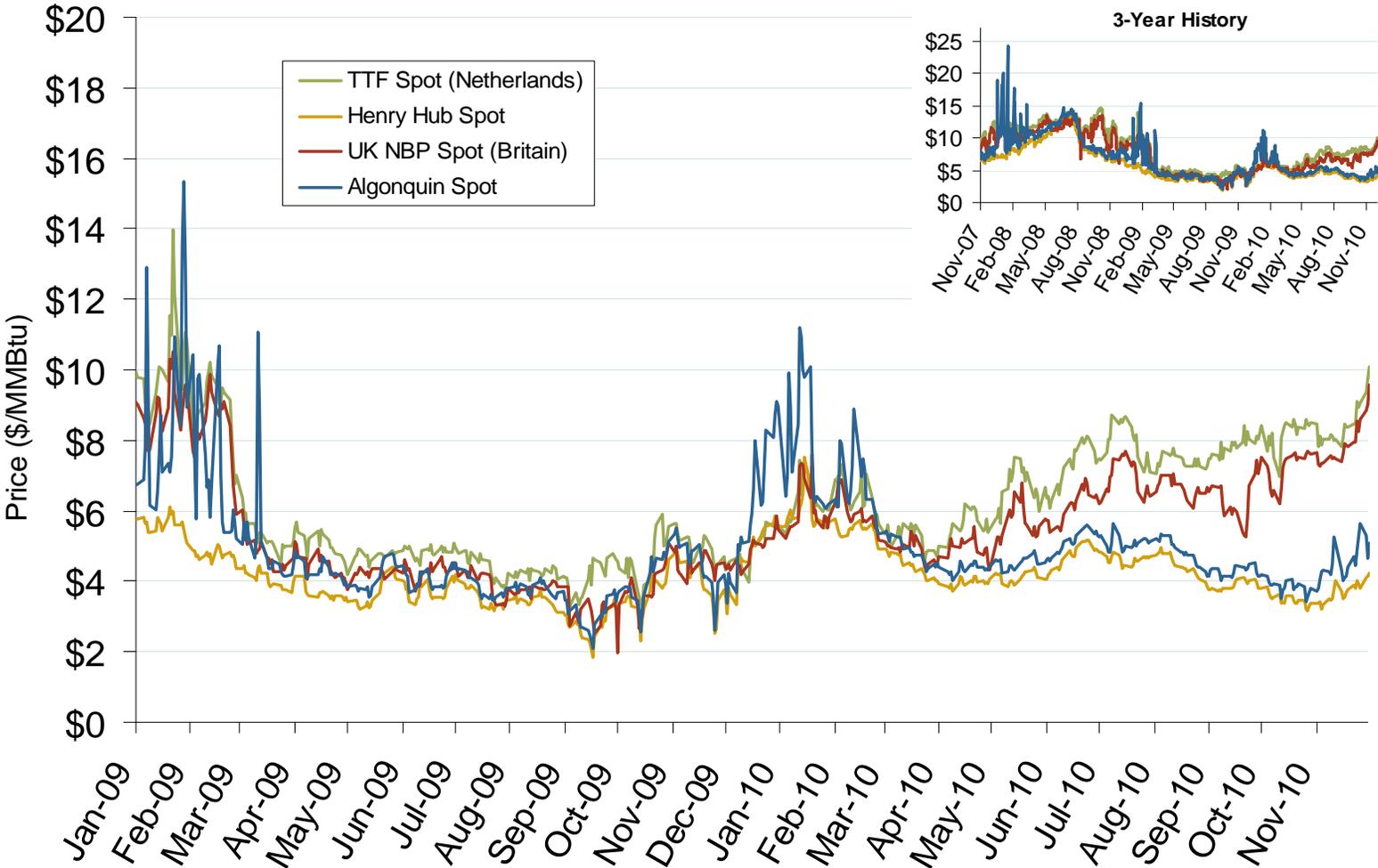
Source: Derived from EIA data. December 2010 Northeast Snapshot Report

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Natural Gas Storage Inventories – % full as of November 26, 2010



Atlantic Basin European and US Spot Natural Gas Prices

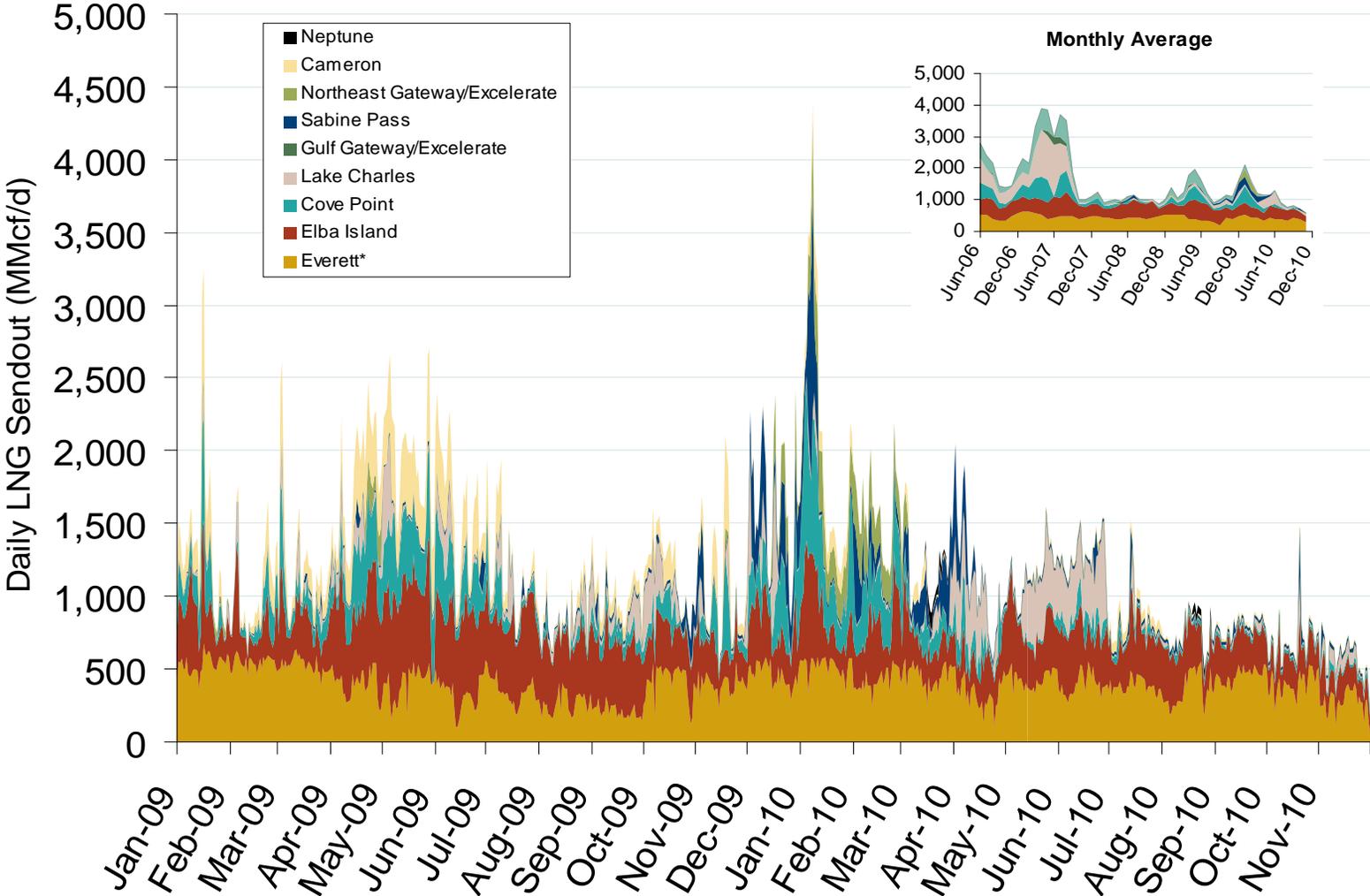


Source: Derived from *Bloomberg* and *ICE* data.
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World LNG Estimated December 2010 Landed Prices



Daily Gas Sendout from Existing U.S. LNG Facilities

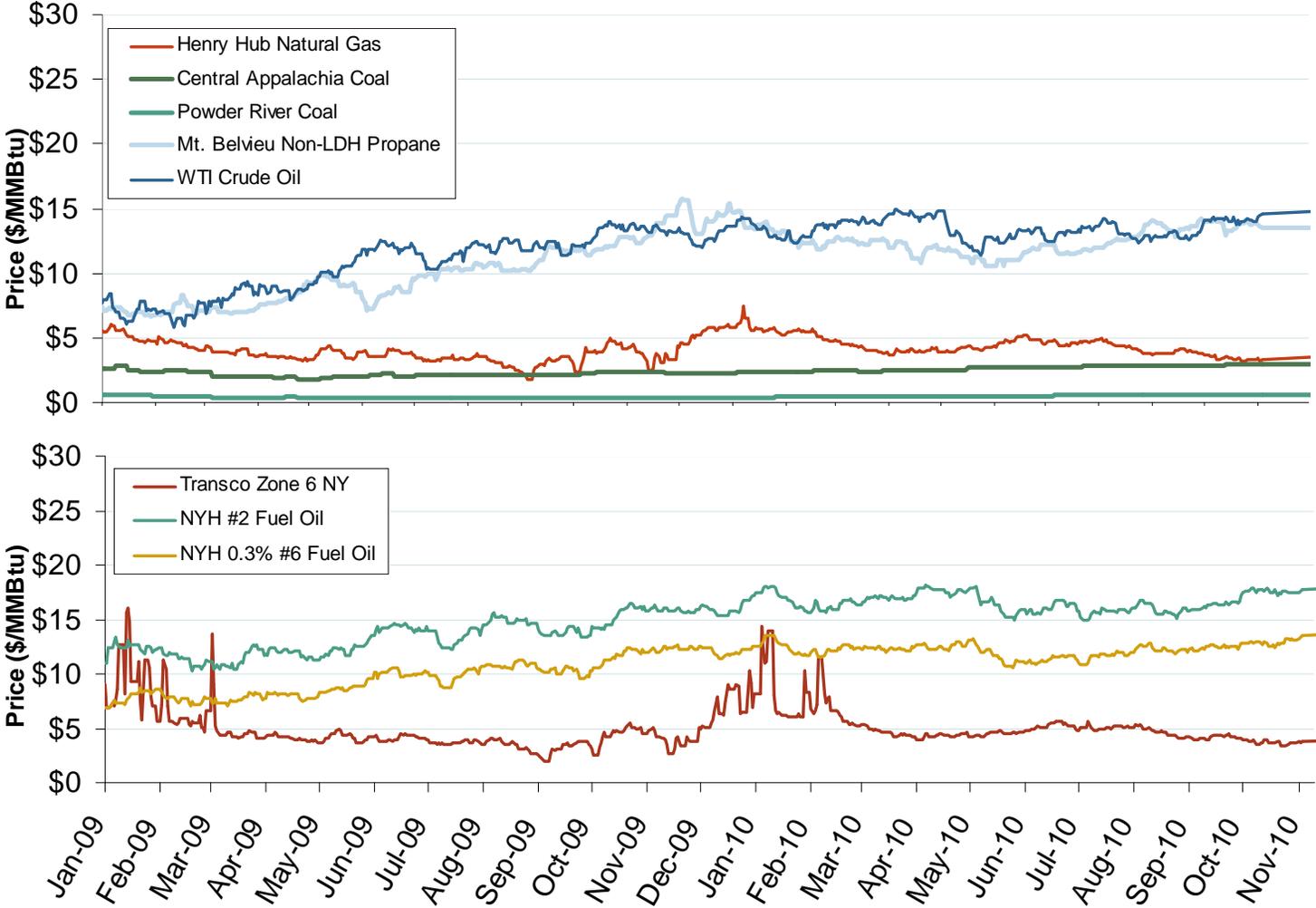


Source: Derived from *Bentek* data.

* 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.

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Oil, Coal, Natural Gas and Propane Daily Spot Prices

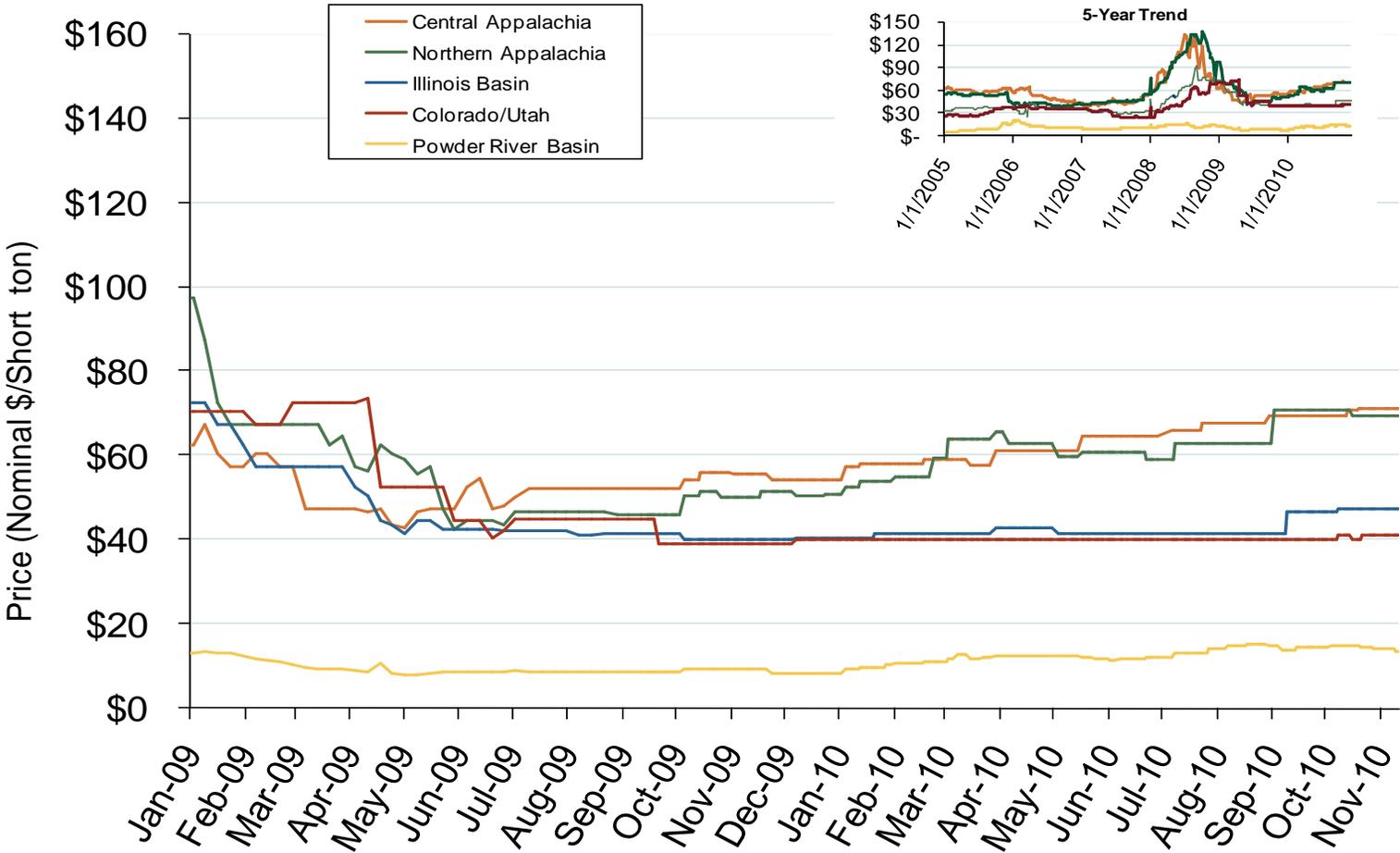


Source: Derived from ICE and Bloomberg data.

Note: 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.

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Regional Coal Spot Prices

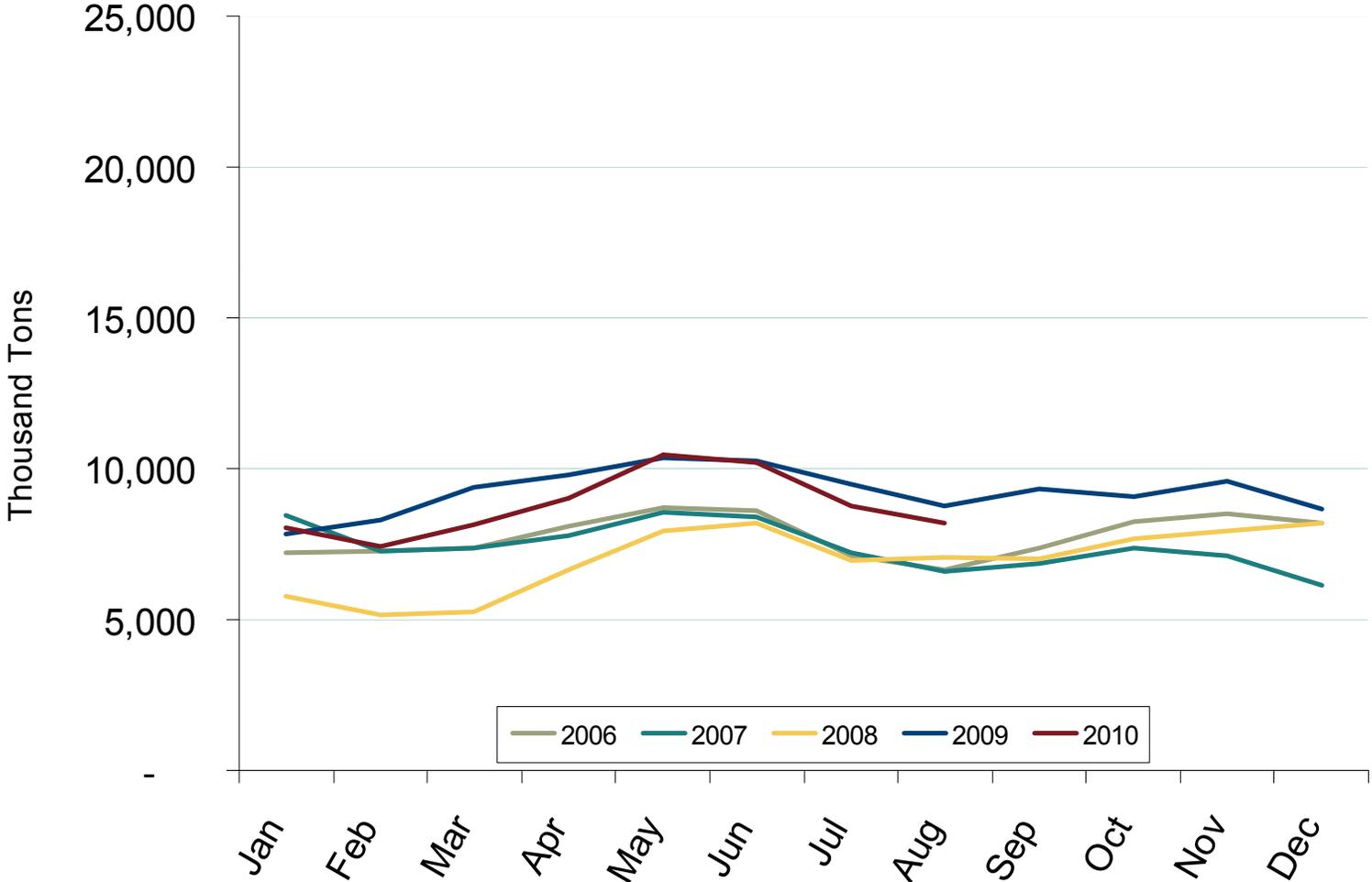


Note: the Central Appalachian (CAPP) coal is priced at Big Sandy. All others are mine mouth prices. Prices do not include transportation costs to a plant, as those can vary widely by contract specifications. Prices exclude incremental cost of emissions allowances.

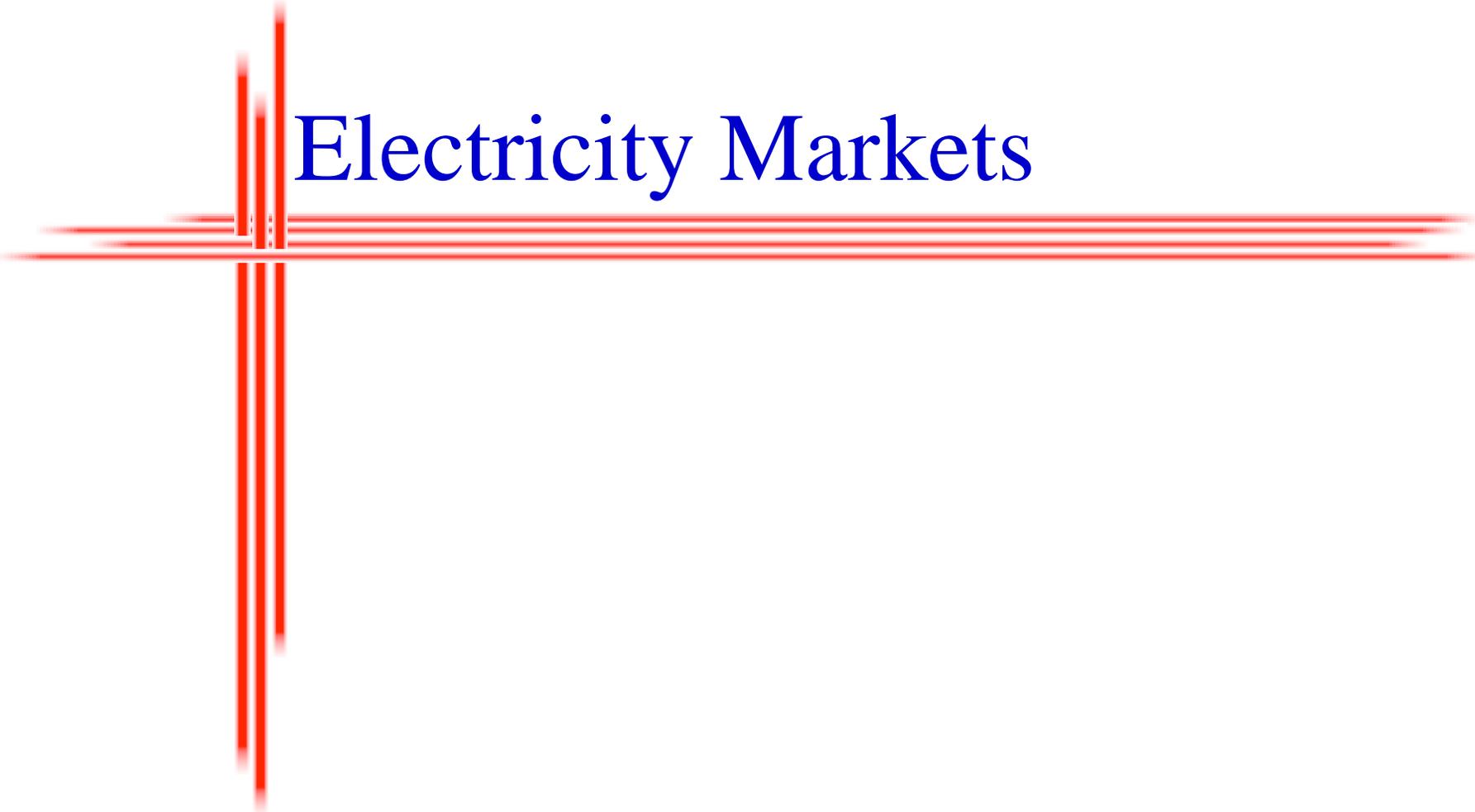
Source: Derived from *Bloomberg* data.
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Northeast Coal Stockpiles at Electric Power Generating Facilities

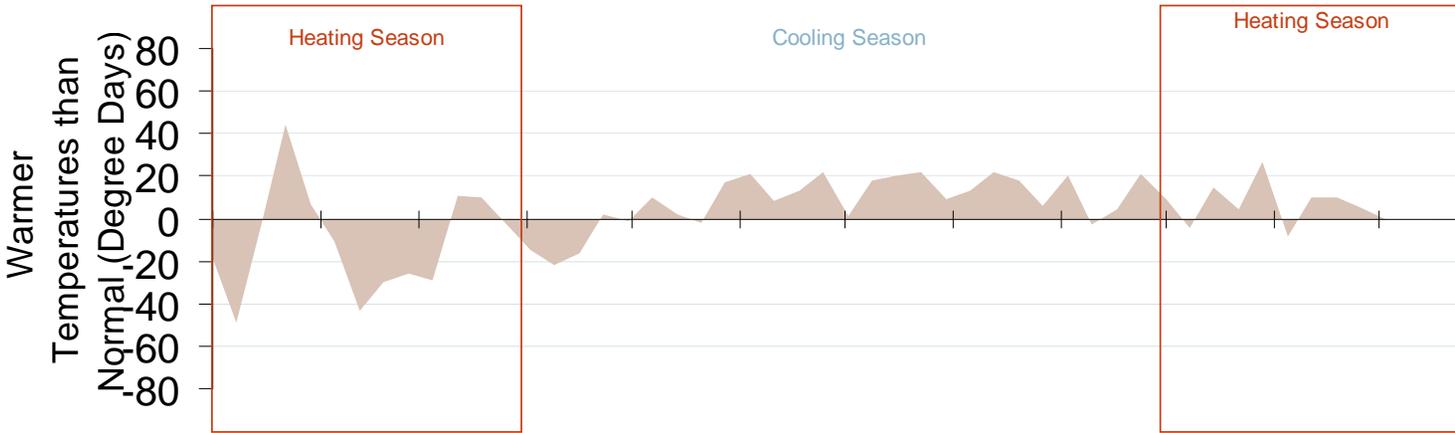
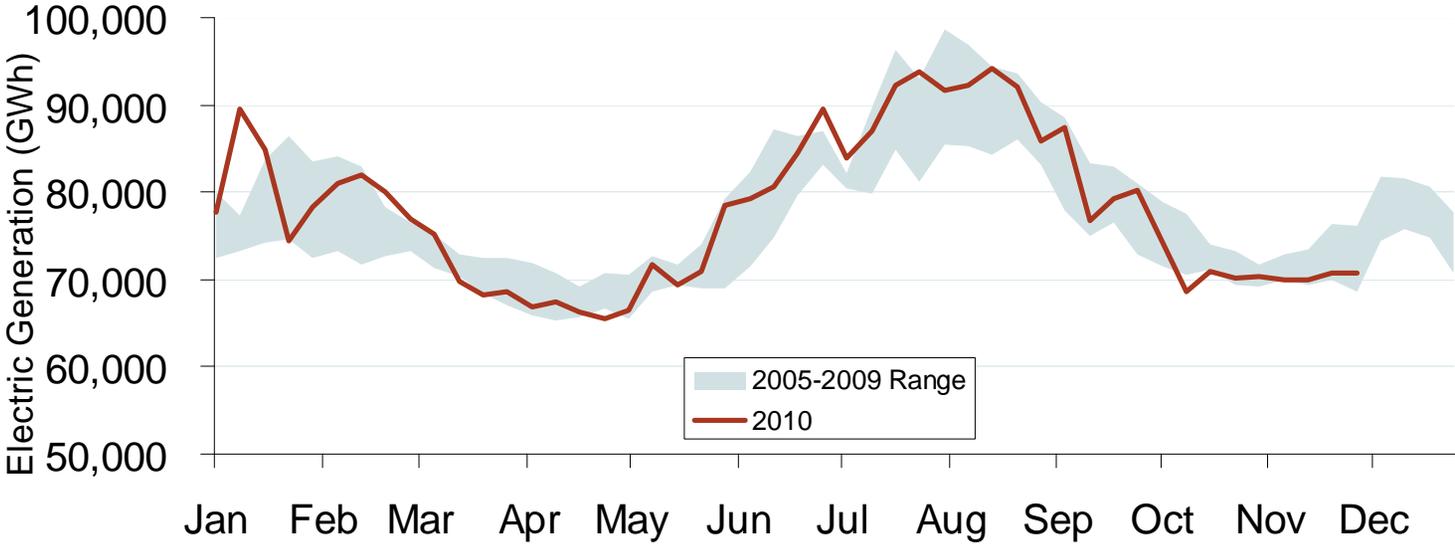


Source: Energy Information Administration. Excludes Industrial and Commercial Plants.
December 2010 Northeast Snapshot Report



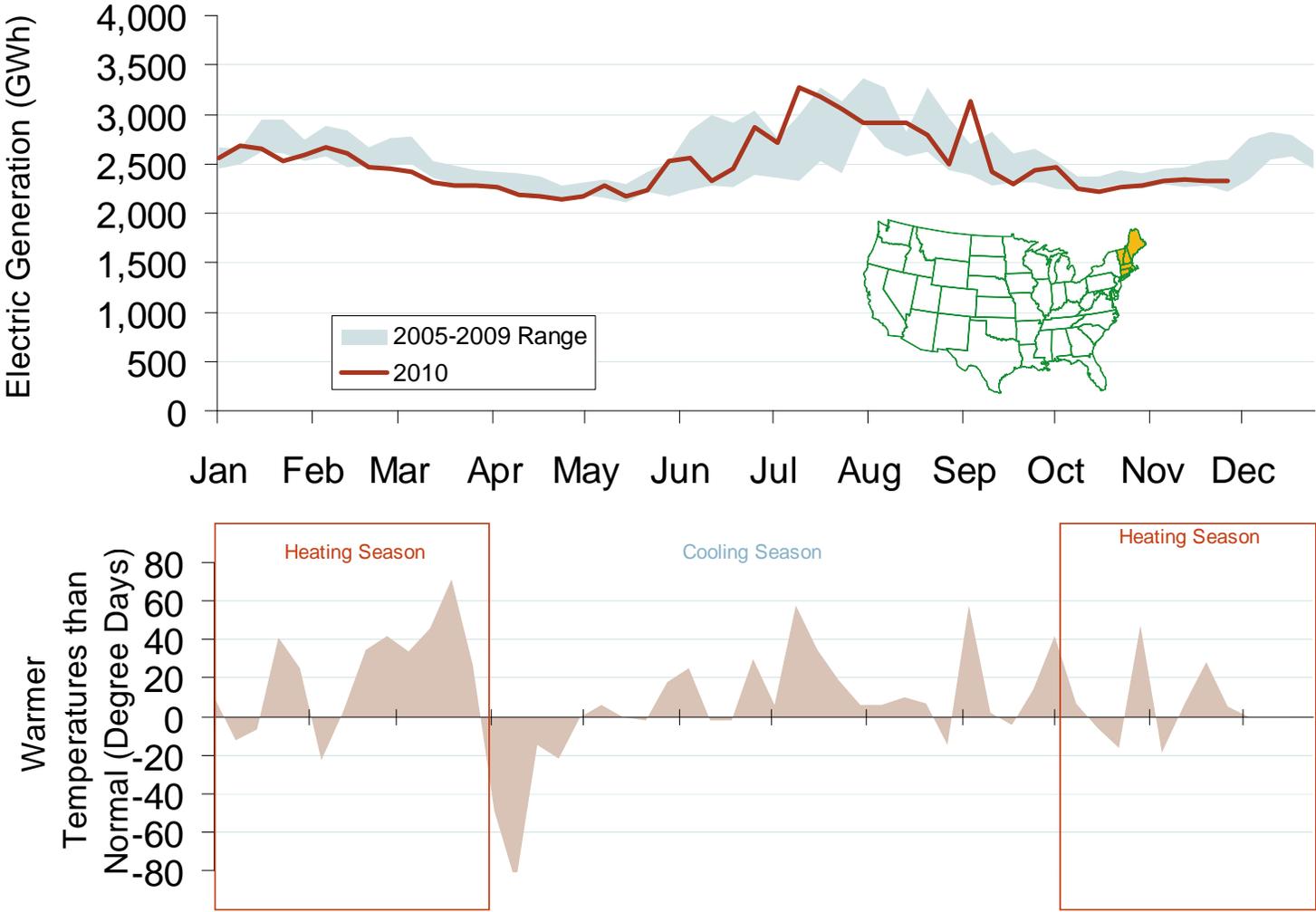
Electricity Markets

Weekly U.S. Electric Generation Output and Temperatures



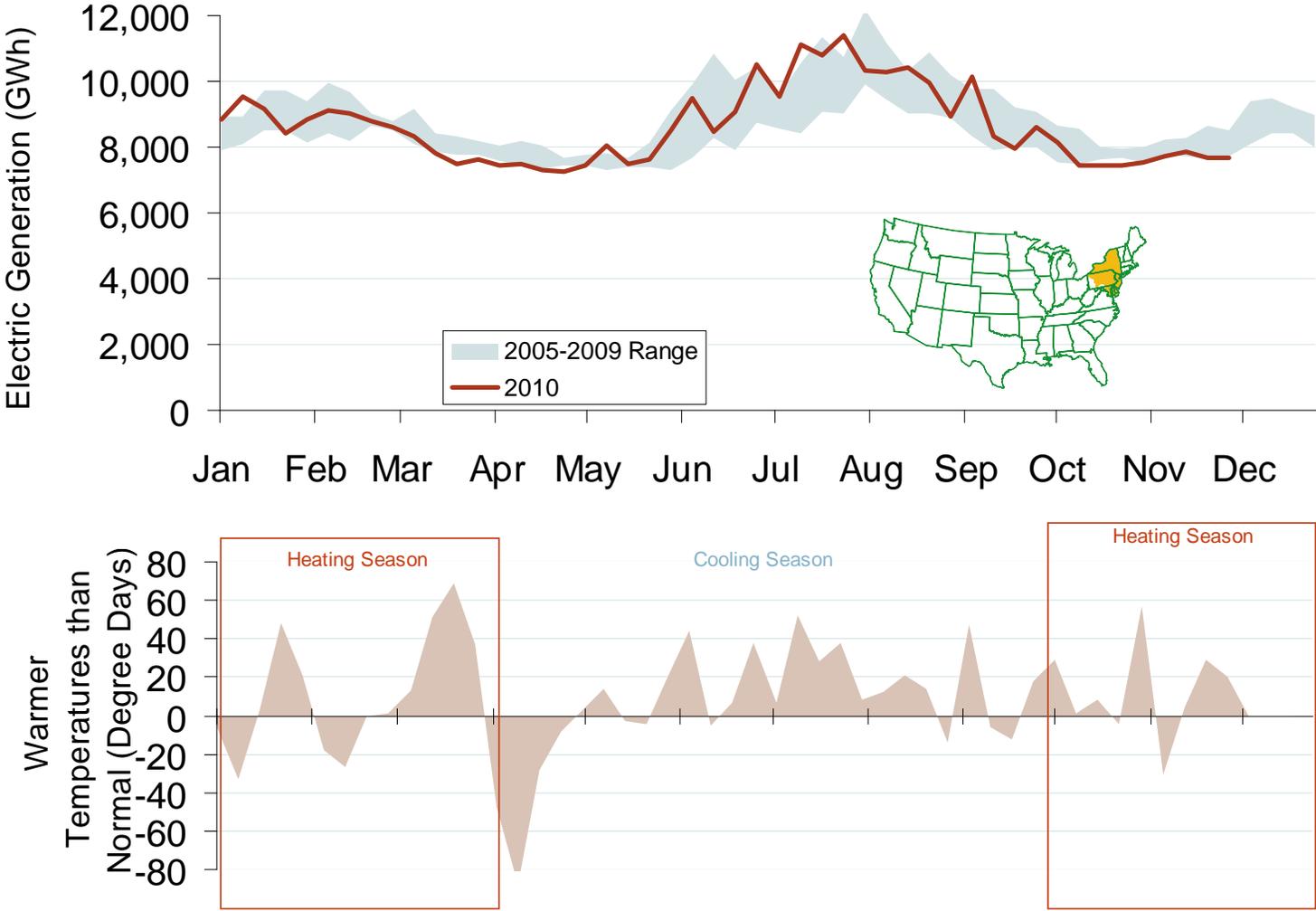
Source: Derived from *EI* and *NOAA* data.
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Weekly Electric Generation Output and Temperatures New England



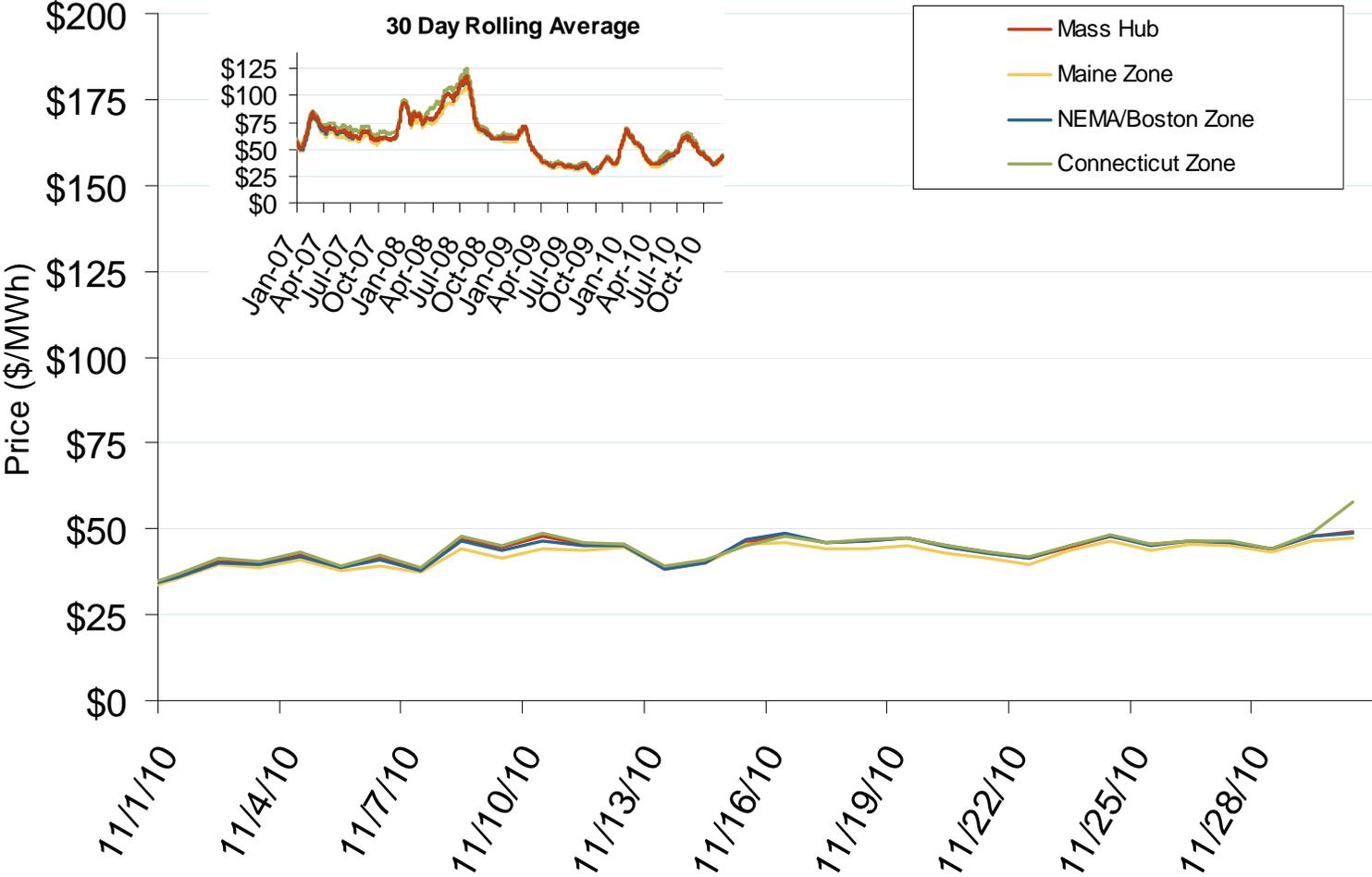
Source: Derived from *EI* and *NOAA* data.
December 2010 Northeast Snapshot Report

Weekly Electric Generation Output and Temperatures Mid Atlantic Region



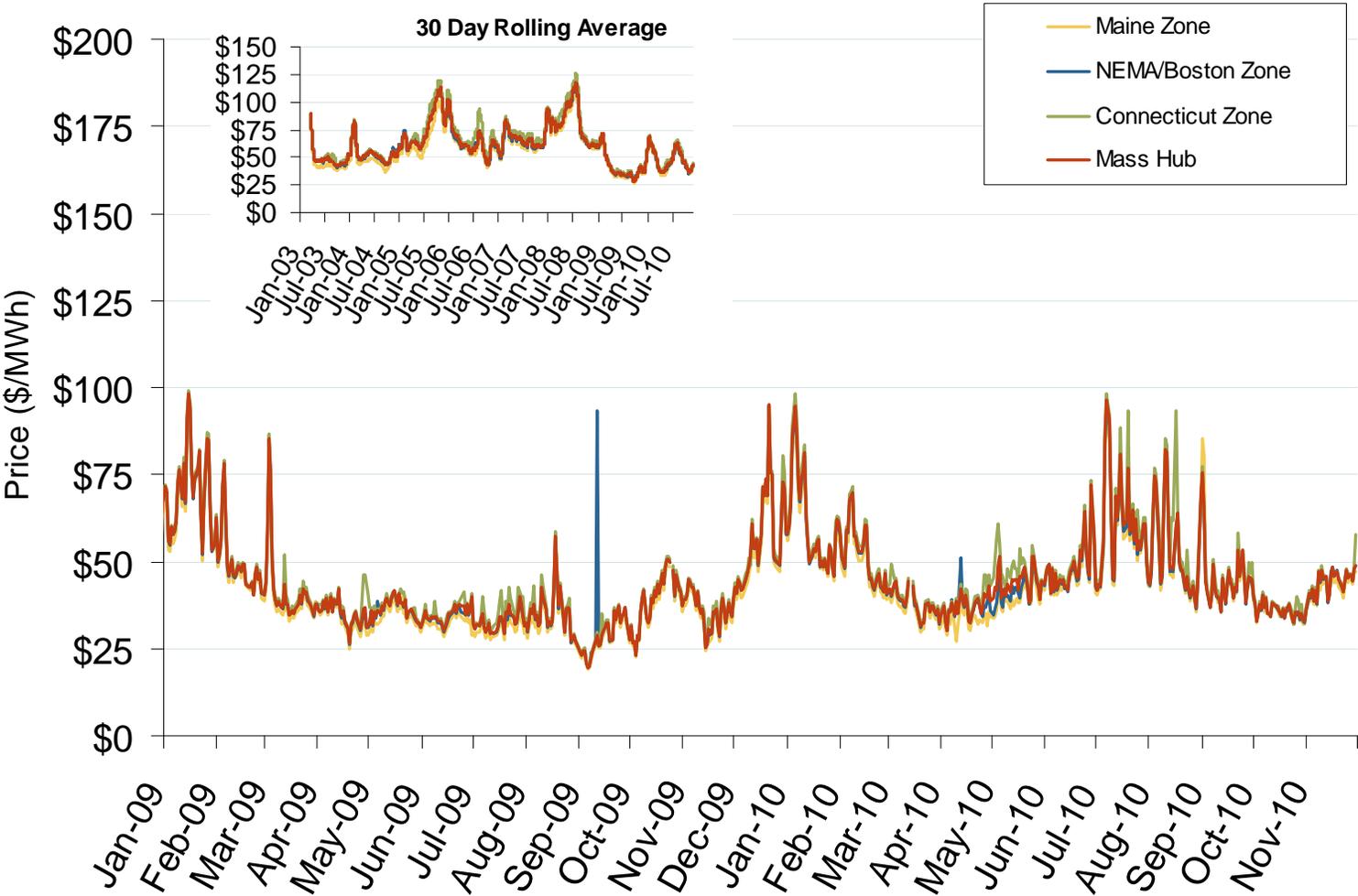
Source: Derived from *EI* and *NOAA* data.
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Daily Average of ISO-NE Day-Ahead Prices - All Hours



Source: Derived by Bloomberg from ISO-NE data as reported by Bloomberg.
December 2010 Northeast Snapshot Report

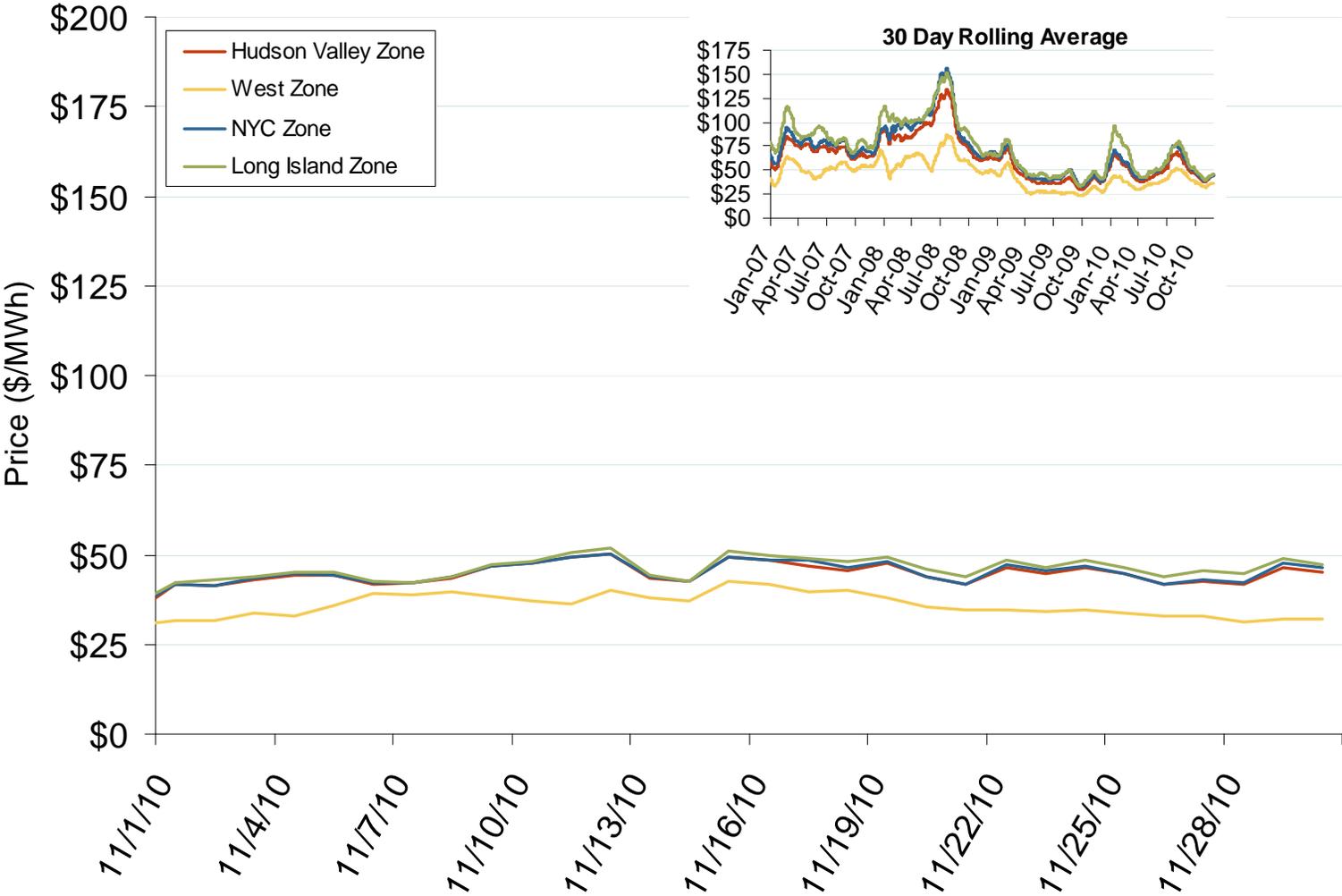
Daily Average of ISO-NE Day-Ahead Prices - All Hours



Source: Derived by Bloomberg from ISO-NE data as reported by Bloomberg.
December 2010 Northeast Snapshot Report

Updated December 8, 2010

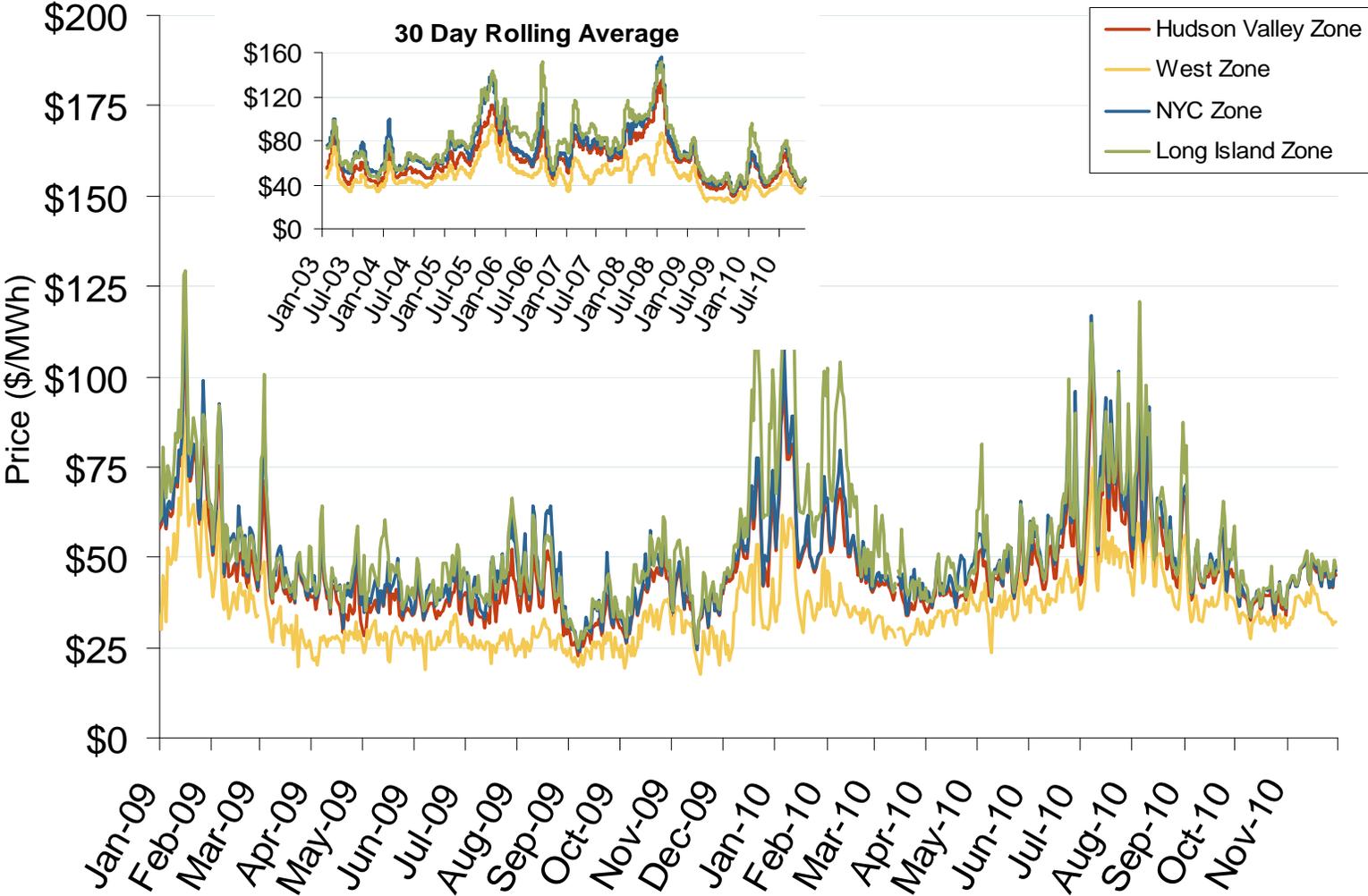
Daily Average of NYISO Day-Ahead Prices - All Hours



Source: Derived by Bloomberg from NYISO data as reported by Bloomberg.
December 2010 Northeast Snapshot Report

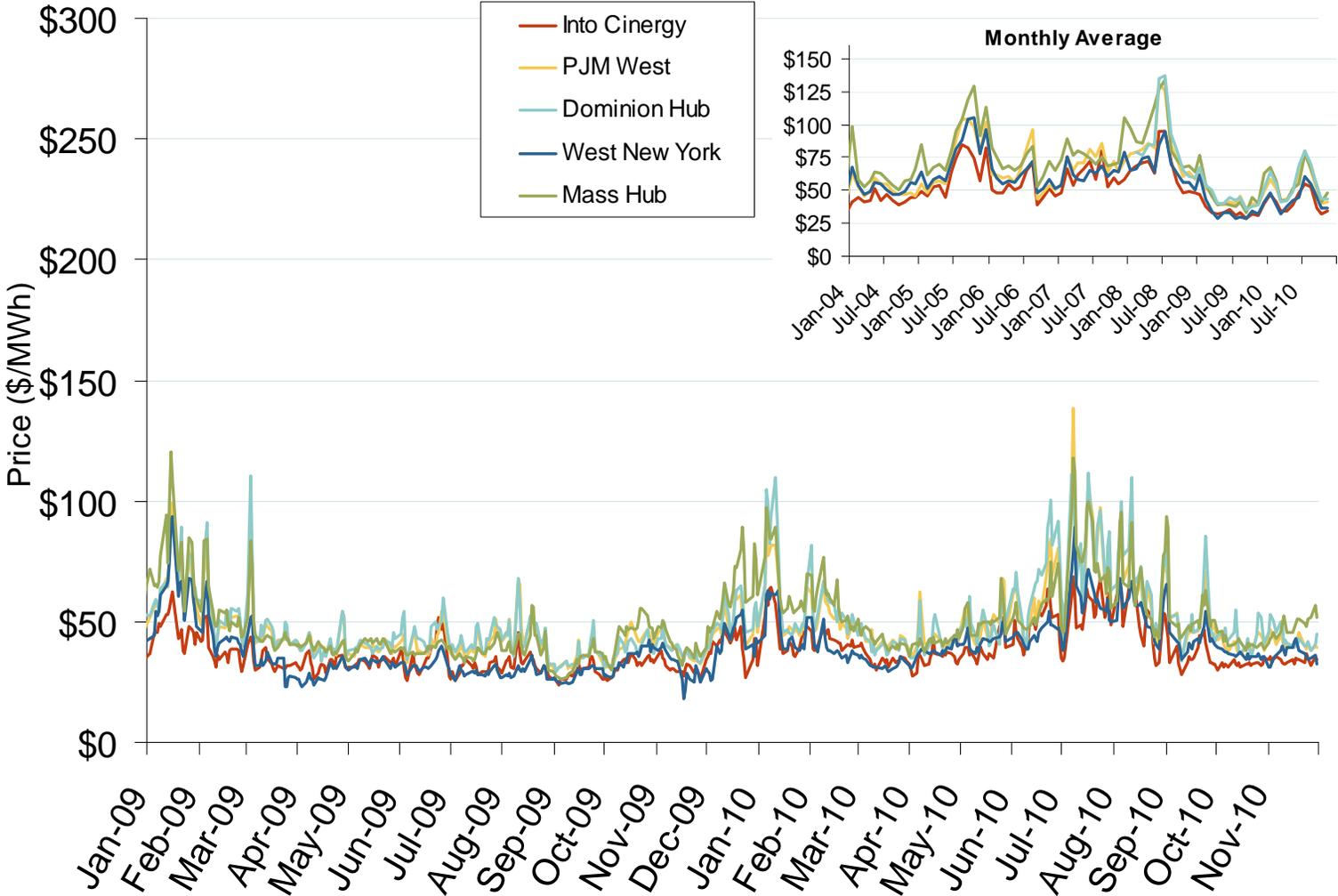
Updated December 8, 2010

Daily Average of NYISO Day-Ahead Prices - All Hours



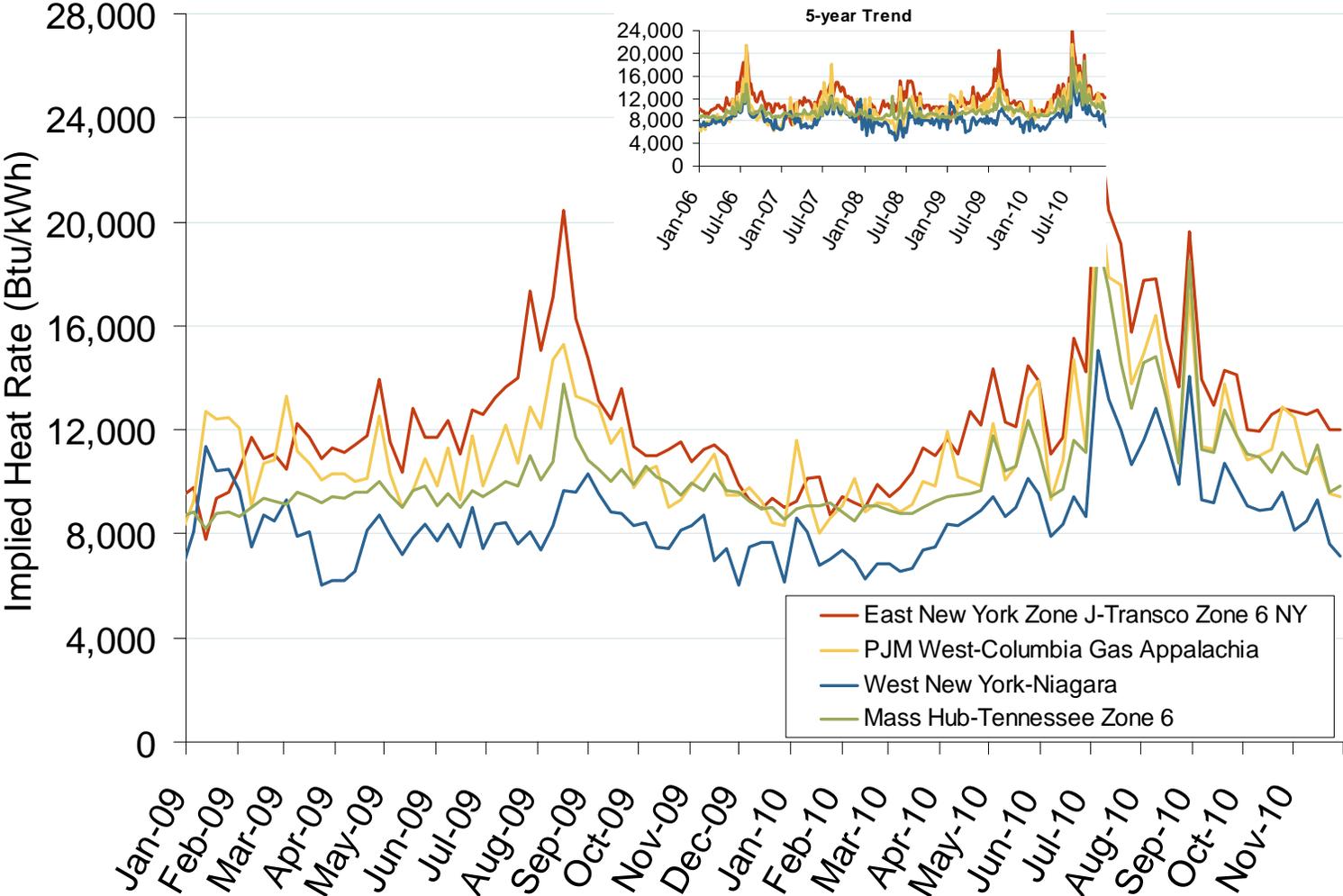
Source: Derived by Bloomberg from NYISO data as reported by Bloomberg.
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Eastern Daily Bilateral Day-Ahead On-Peak Prices



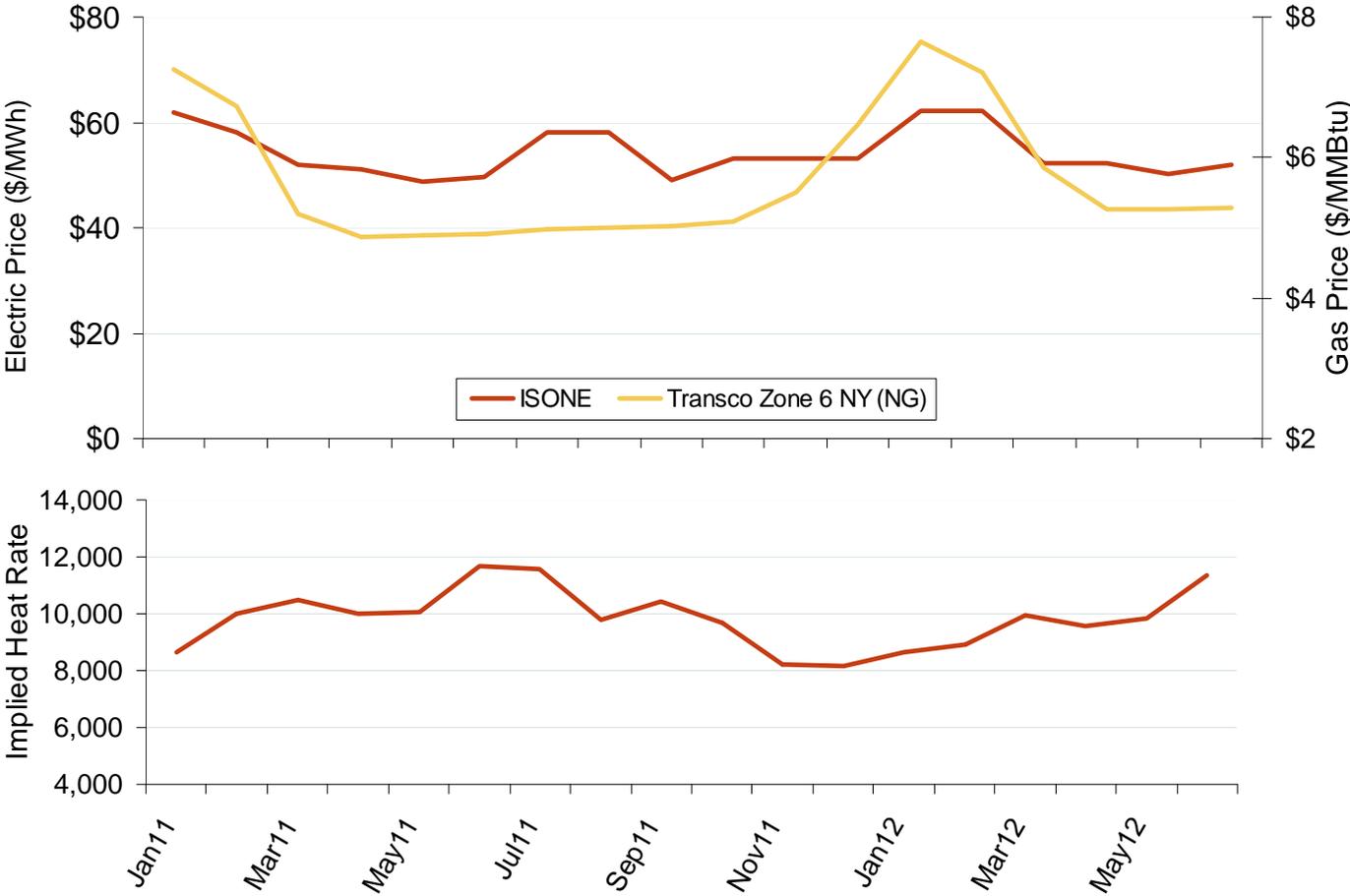
Source: Derived from *Platts* data.
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Implied Heat Rates at Eastern Trading Points Weekly Averages



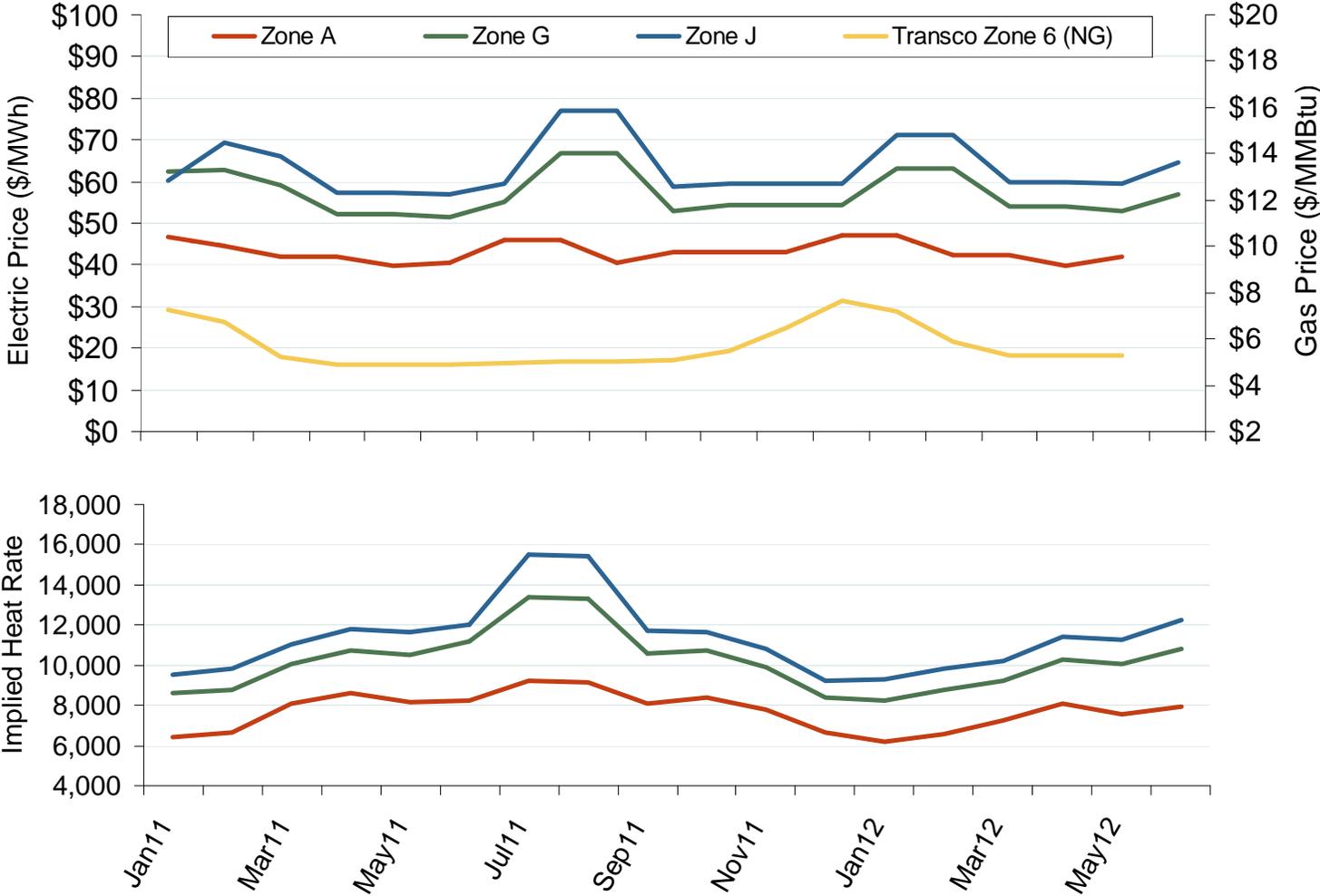
Source: Derived from *Platts* on-peak electric and natural gas price data.
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New England Electric Forward Price Curve and Implied Heat Rate



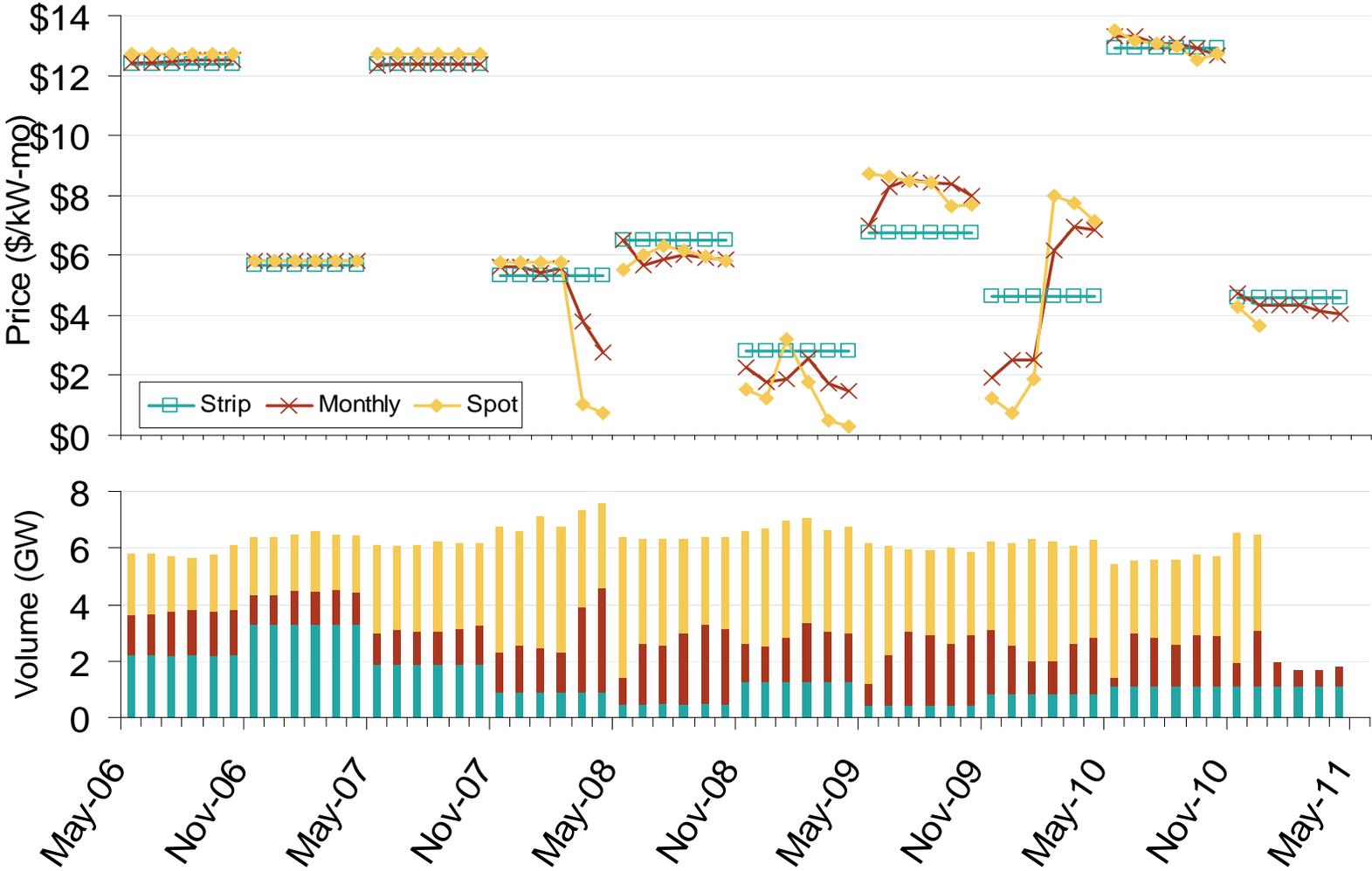
Source: Derived from Nymex data.
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New York Electric Forward Price Curves and Implied Heat Rates



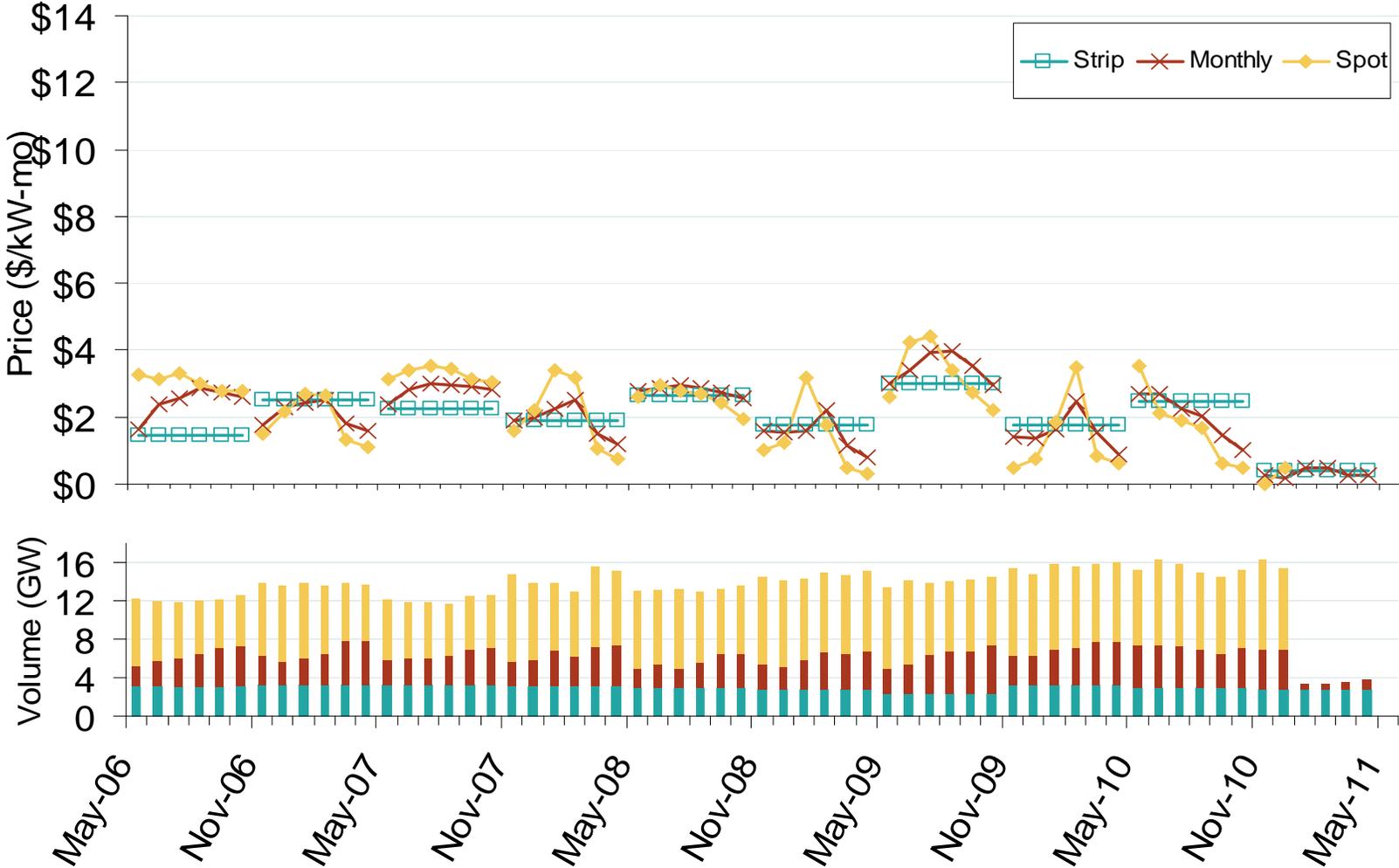
Source: Derived from Nymex data.
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Weighted Average ICAP Clearing Prices and Volumes: New York City



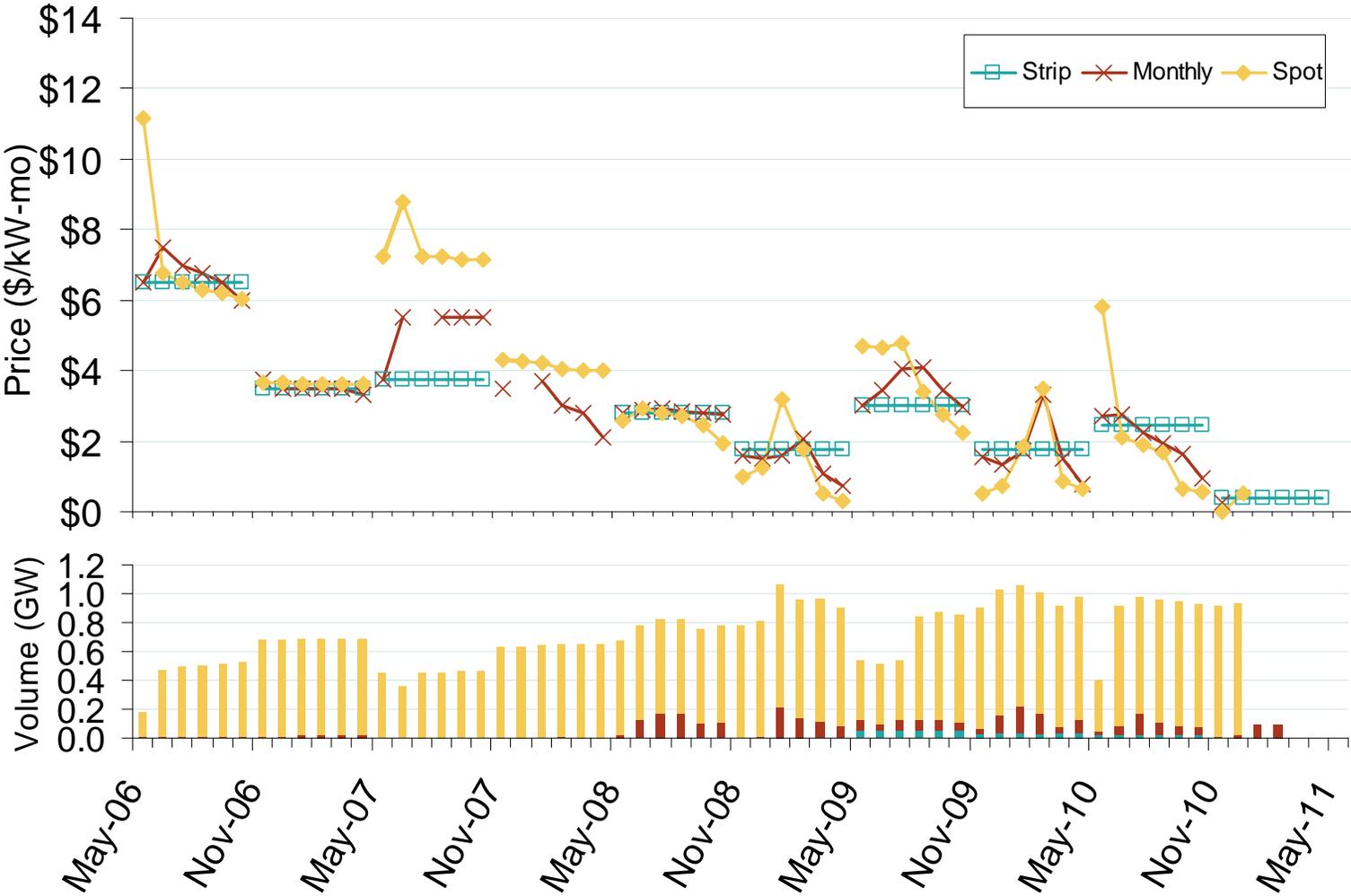
Source: Derived from NYISO data.
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Weighted Average ICAP Clearing Prices and Volumes: Rest of New York State



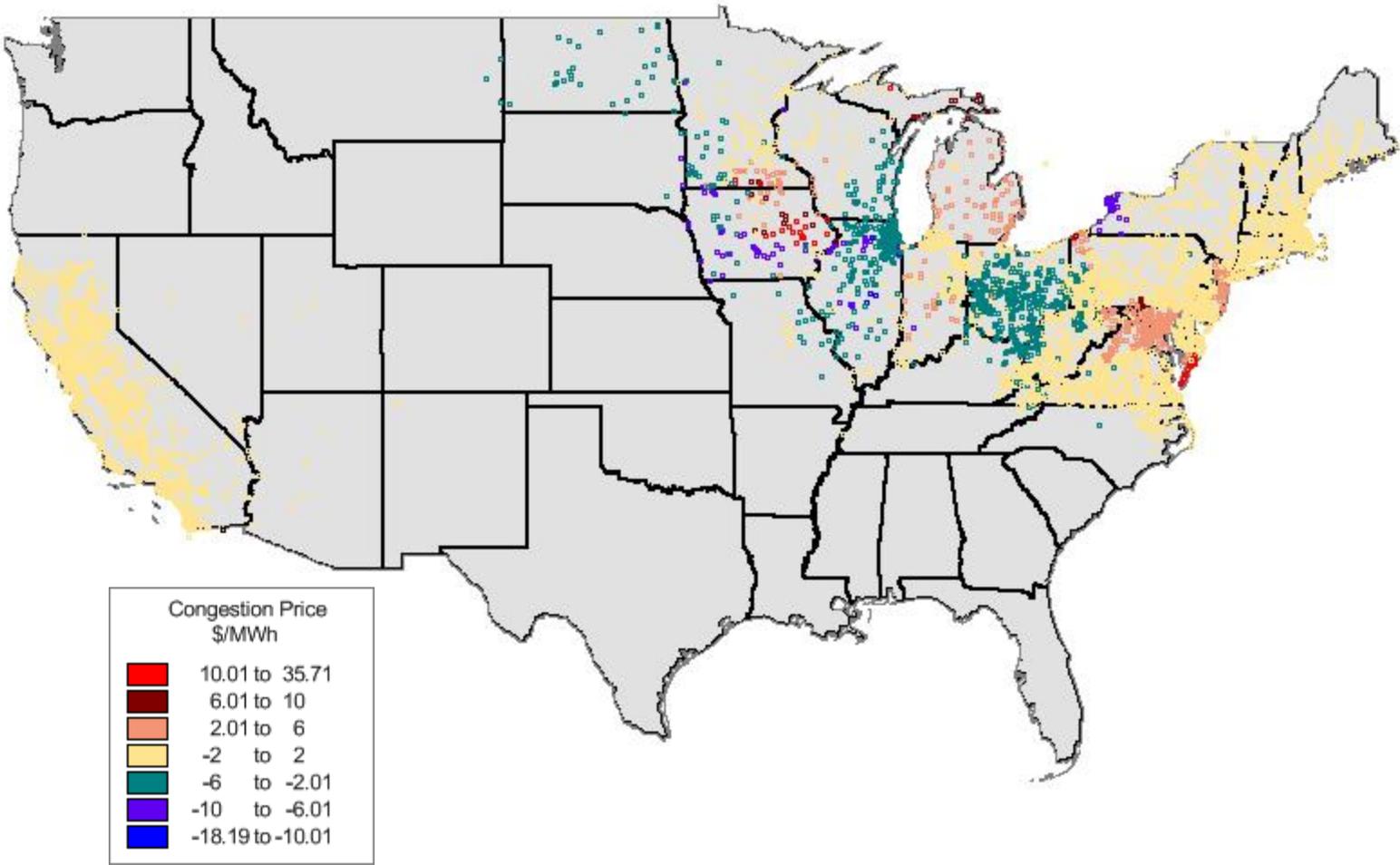
Source: Derived from NYISO data.
December 2010 Northeast Snapshot Report

Weighted Average ICAP Clearing Prices and Volumes: Long Island

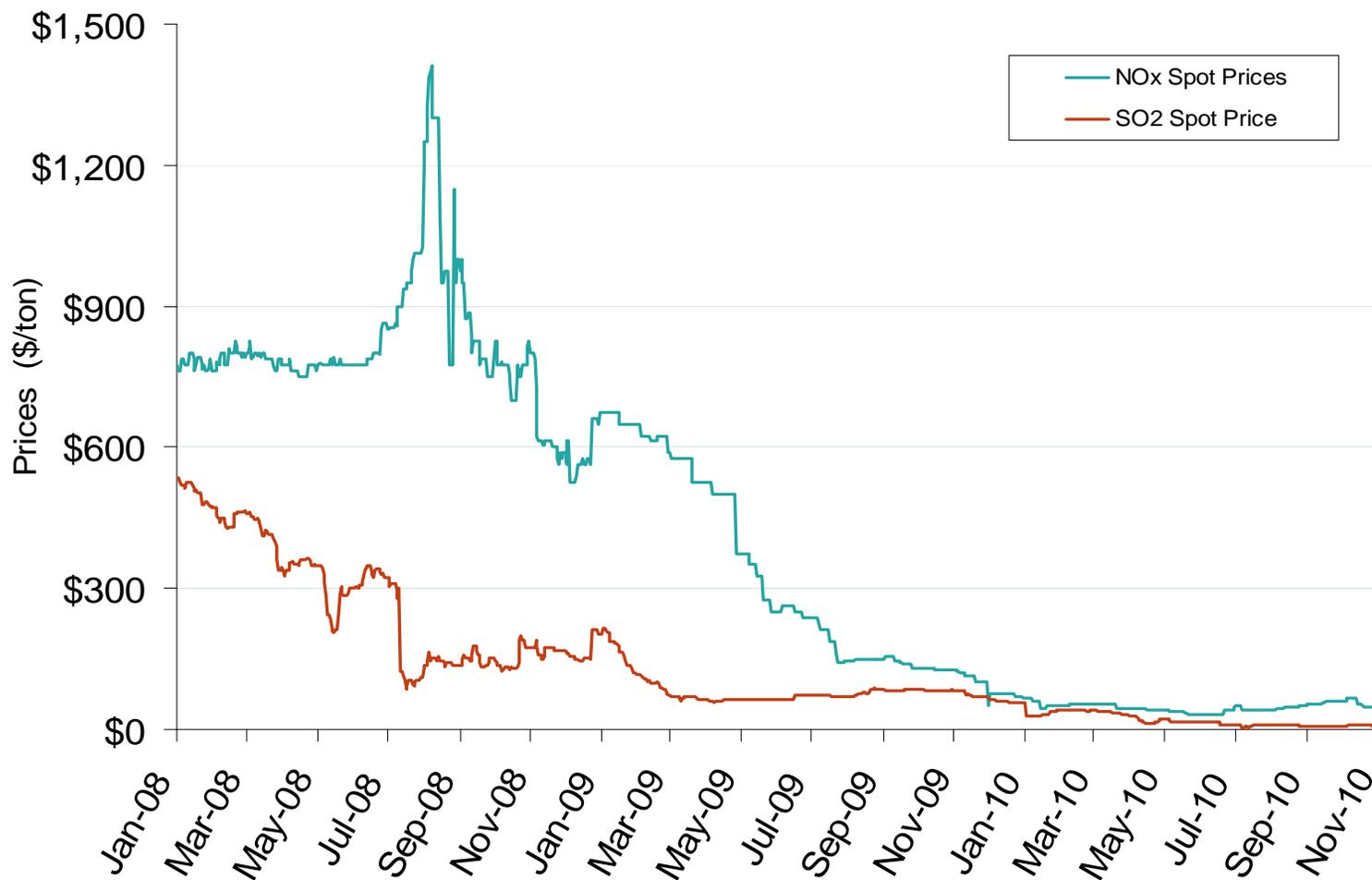


Source: Derived from NYISO data.
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Day Ahead On-Peak Congestion Average Monthly Prices November 2010



SO₂ Allowance Spot Prices and NOx Seasonal Allowance Spot Prices



Chicago Climate Exchange CO2 Index

