



Competitive Energy Services Weekly Market Summary

April 15 - 19, 2019

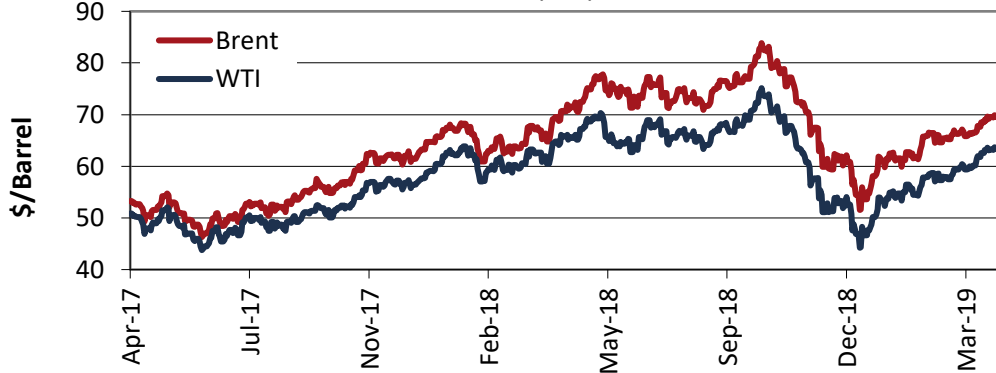
Synopsis of Last Week's Energy Markets

Crude oil rose minimally last week, as bullish domestic and bearish international developments were not substantial enough to upset the holding pattern on a number of issues. Early developments this week affect that stability in the near-future. Natural gas prices plummeted last week as waning demand and a large storage injection signaled that inventories could refill between now and November. Front-month futures reached 3-year lows, falling 6% week-over-week.

Oil Market

Crude Oil - WTI & Brent

12-Month Forward Strips, past 24 months

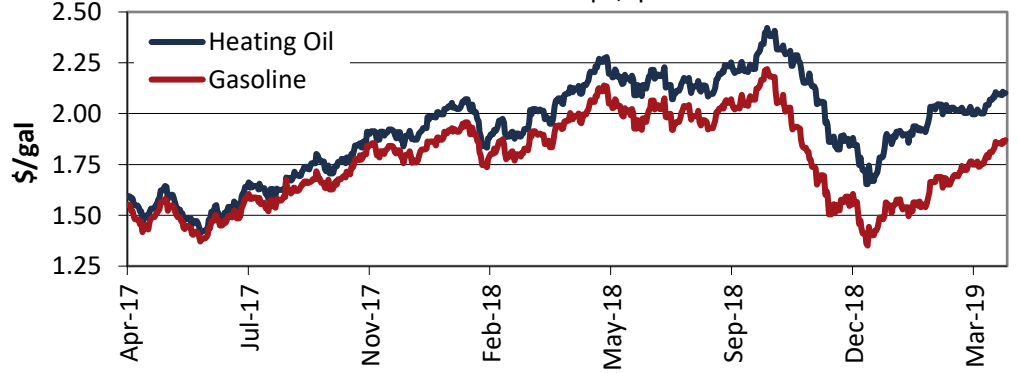


| NYMEX WTI | last close | previous week | 24-month high | 24-month low |
|------------------------|------------|---------------|---------------|--------------|
| 12 month strip, \$/bbl | \$63.37 | \$63.22 | \$75.39 | \$43.82 |
| date | 4/19/19 | 4/12/19 | 10/3/18 | 6/21/17 |
| change from last close | | 0.2% | -15.9% | 45% |

| US STORAGE (in million bbls) | | crude oil |
|--------------------------------|---------|-----------|
| domestic stocks as of | 4/12/19 | 455 |
| gain / loss from previous week | | -1.4 |
| comparison to historic range | | within |

Heating Oil & Gasoline

NYMEX 12-Month Forward Strips, past 24 months

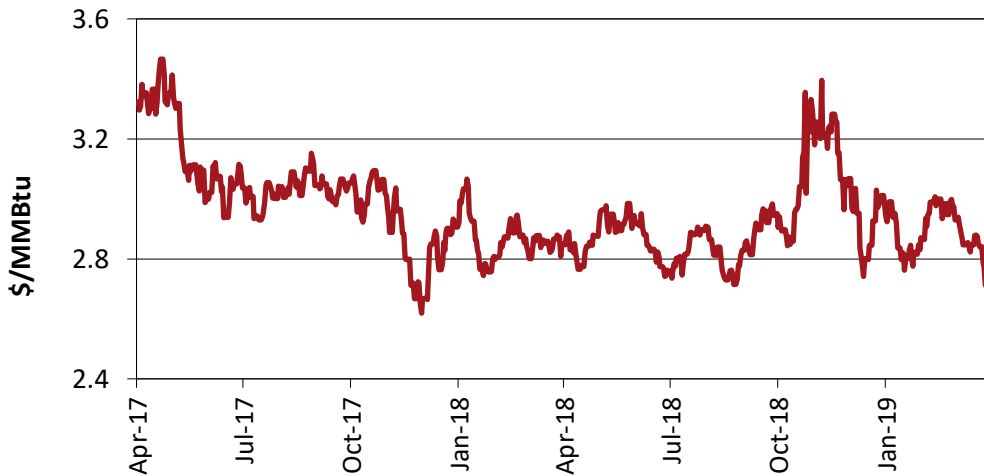


| NYMEX Heating Oil | last close | previous week | 24-month high | 24-month low |
|------------------------|------------|---------------|---------------|--------------|
| 12 month strip, \$/gal | \$2.10 | \$2.09 | \$2.43 | \$1.41 |
| date | 4/19/19 | 4/12/19 | 10/3/18 | 6/21/17 |
| change from last close | | 0.3% | -13% | 49% |

| US STORAGE (in million bbls) | | distillate | propane | gasoline |
|--------------------------------|---------|------------|---------|----------|
| domestic stocks as of | 4/12/19 | 128 | 57 | 228 |
| gain / loss from previous week | | -0.4 | 2.4 | -1.2 |
| comparison to historic range | | within | within | above |

Natural Gas Market

NYMEX Henry Hub Futures: 12 Month Forward Strip

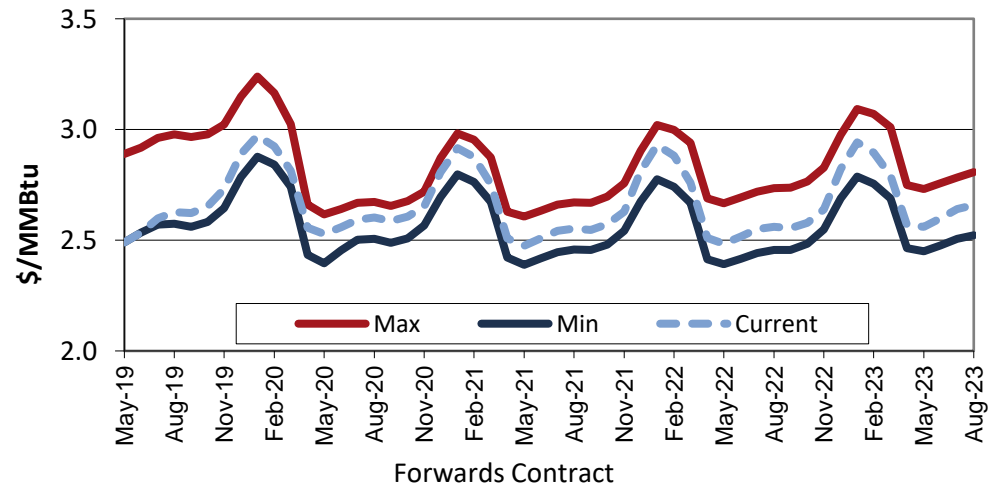


| NYMEX PRICING | last close | previous week | 24-month high | 24-month low |
|------------------------|------------|---------------|---------------|--------------|
| 12 mo. strip, \$/MMBtu | \$2.70 | \$2.84 | \$3.47 | \$2.61 |
| date | 4/19/19 | 4/12/19 | 5/12/17 | 12/21/17 |
| change from last close | | -4.9% | -22% | 3% |

| CES SCORE | |
|-----------|----|
| 12 month | 80 |
| 18 month | 68 |
| 24 month | 62 |
| 36 month | 60 |

The Score provides a measure of how current prices compare to their 52-week range. A score close to 0 indicates that current prices are close to their 52-week highs; a score close to 100 indicates that current prices are close to their 52-week lows.

NYMEX Natural Gas Forwards vs. 1 Year Range



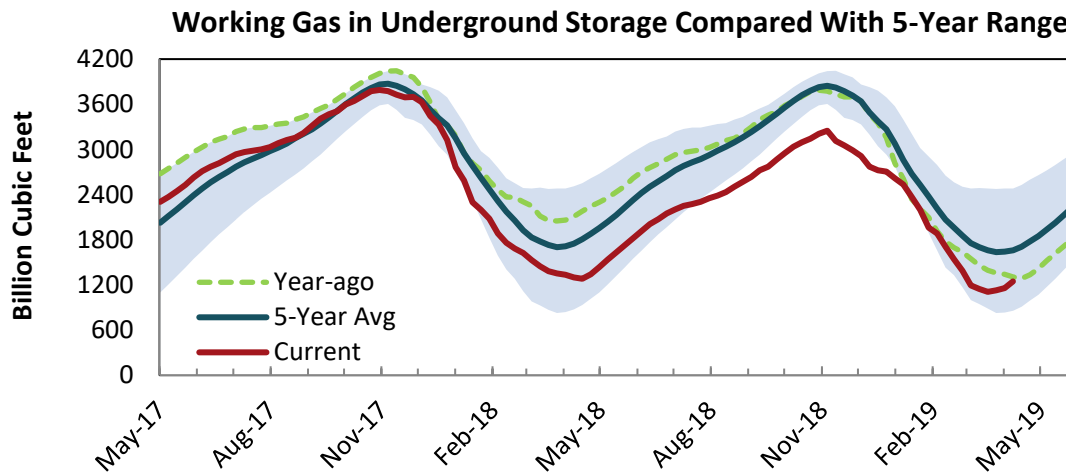
| FORWARDS | 12 month | 18 month | 24 month | 36 month |
|------------------|----------|----------|----------|----------|
| strip (\$/MMBtu) | \$2.70 | \$2.66 | \$2.68 | \$2.67 |

Natural gas futures are useful for both natural gas and electricity consumers because they drive electricity pricing in many U.S. markets. This chart compares the current natural gas price for each forward month on the NYMEX exchange to the highest and lowest prices for the same month over the past 12 months.



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Natural Gas Storage



This chart shows the amount of natural gas in storage at each point in time (red line) compared to the highest, lowest, and average amounts in the past 5 calendar years.

| EIA Storage Data | | date | Bcf | +/- |
|----------------------------|--|---------|-------|--------|
| Previous Stock Level | | 4/5/19 | 1,155 | |
| Most Recent Stock Level | | 4/12/19 | 1,247 | |
| Year-ago Stock Level | | | 1,304 | -4.4% |
| 5-Year Average Stock Level | | | 1,661 | -24.9% |
| Most Recent Net Change | | 4/12/19 | 92 | |
| Year-Ago Net Change | | | -34 | |
| 5-Year Average Net Change | | | 21 | |

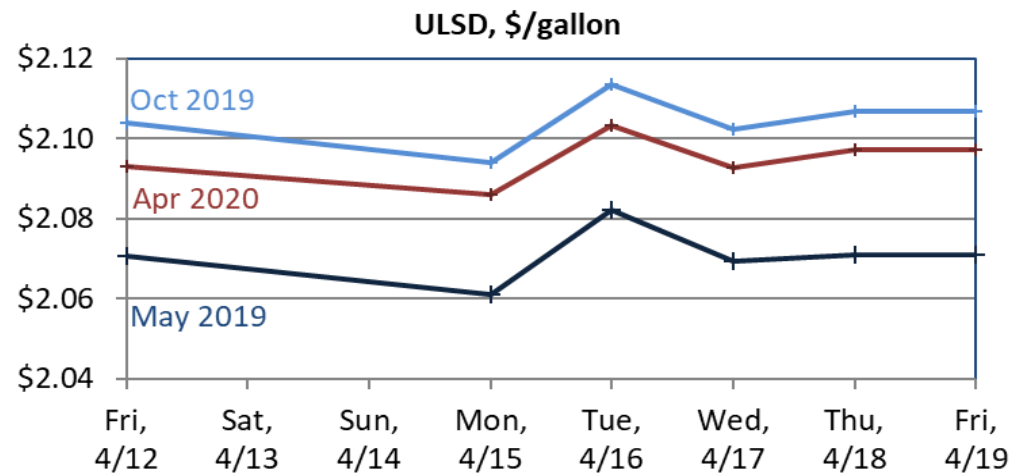
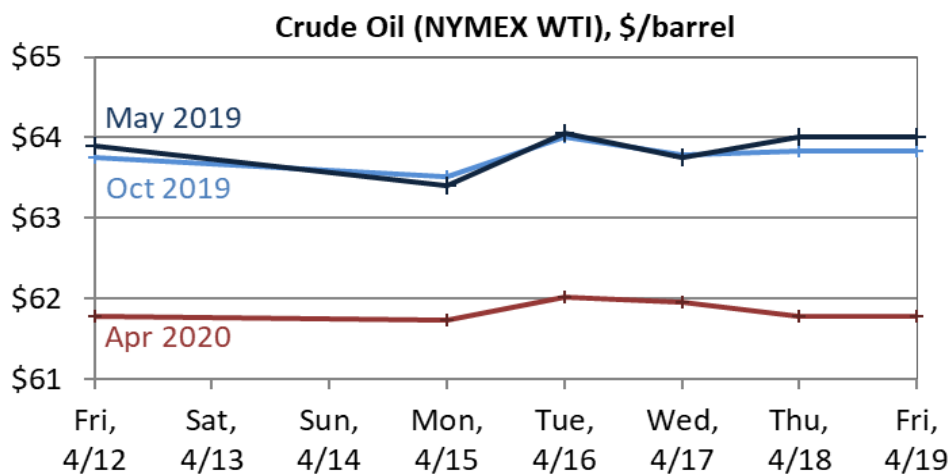
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

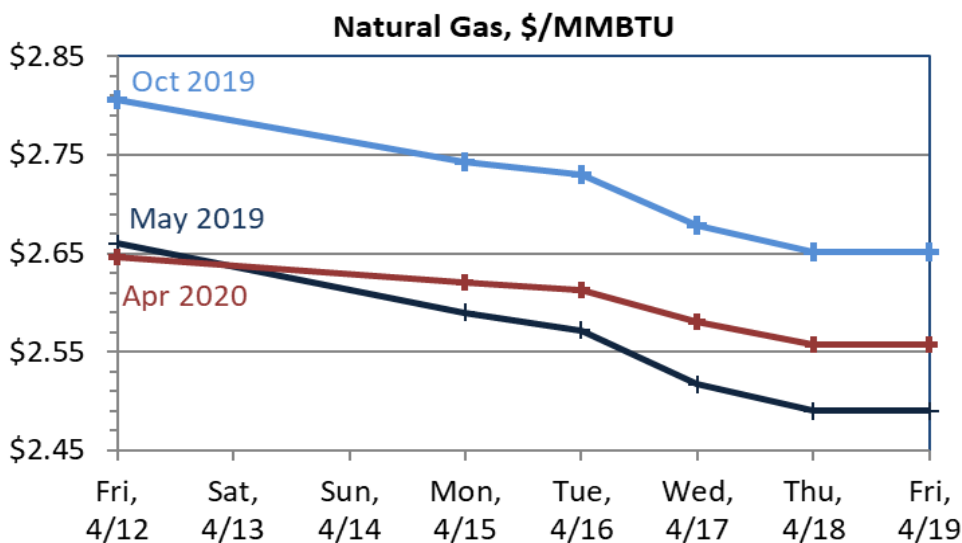
NYMEX Futures Summary Statistics

| | Last Expired Contract | Exp. Date | Price | Prompt Month | Price | Most Expensive Next 12 Months | Price | Least Expensive Next 12 Months | Price | Next Winter Avg (Nov19-Mar20) |
|-------------|-----------------------|-----------|---------|--------------|---------|-------------------------------|---------|--------------------------------|---------|-------------------------------|
| Crude oil | Apr-19 | 3/20/19 | \$59.83 | May-19 | \$64.00 | Jul-19 | \$64.12 | Apr-20 | \$61.78 | \$62.91 |
| Heating oil | Apr-19 | 3/29/19 | \$1.97 | May-19 | \$2.07 | Jan-20 | \$2.12 | May-19 | \$2.07 | \$2.12 |
| Natural gas | Apr-19 | 3/27/19 | \$2.71 | May-19 | \$2.49 | Jan-20 | \$2.97 | Apr-20 | \$2.49 | \$2.87 |

NYMEX End-of-Day Settlements



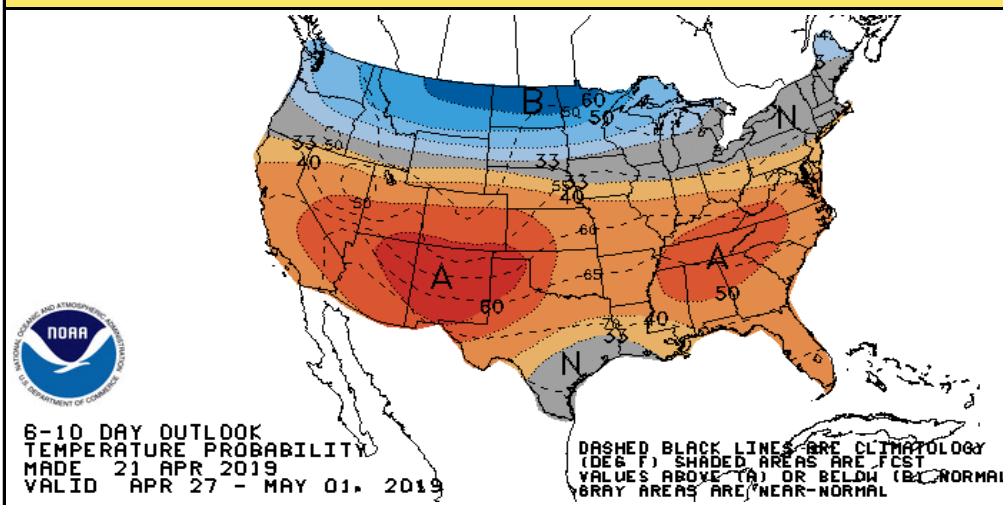
Crude oil gained just over 1% last week, marking a sixth straight week of gains. Conflict escalations in Libya have continued to raise concern over exports. Libya is exempt from OPEC production cuts, and while uneven, exports had been trending to five year highs. On Thursday, long-time Sudanese President Omar al-Bashir was ousted in a coup, clouding plans for a joint expansion of exploration and production with South Sudan. Climbing equities boosted crude towards the end of the week, as the S&P 500 regained levels last seen six months ago. Domestic crude supplies climbed to the highest levels since 2017; however, gasoline stocks continued an extended drop, pushing up gasoline futures and increasing the likelihood of a summer supply crunch.



Natural gas prices fell 6% last week as waning demand and strong production pointed to strong inventory builds in the coming weeks. The EIA reported that domestic inventories ended the winter at lows not seen since 2014 after rising gas generation capacity, booming exports, summer heat, and winter cold snaps sent demand to new highs last year. Stocks remain 25% below the 5-year average, but government data showed that the midmonth storage build was more than four times the normal gain, and the deficit is expected to narrow even further in the coming weeks. May futures slipped 17 cents during the short trading week to \$2.49/MMBtu the lowest front-month settlement since 2016.

The National Weather Service near-term forecast calls for above-normal temperatures for a horizontal swath across the midsection of the continental United States. The CES Market Score on page 1 improved drastically from the previous week. Clients with electricity or natural gas contracts expiring in 2019 should consult with a CES representative for customized guidance.

National Weather Service Forecast



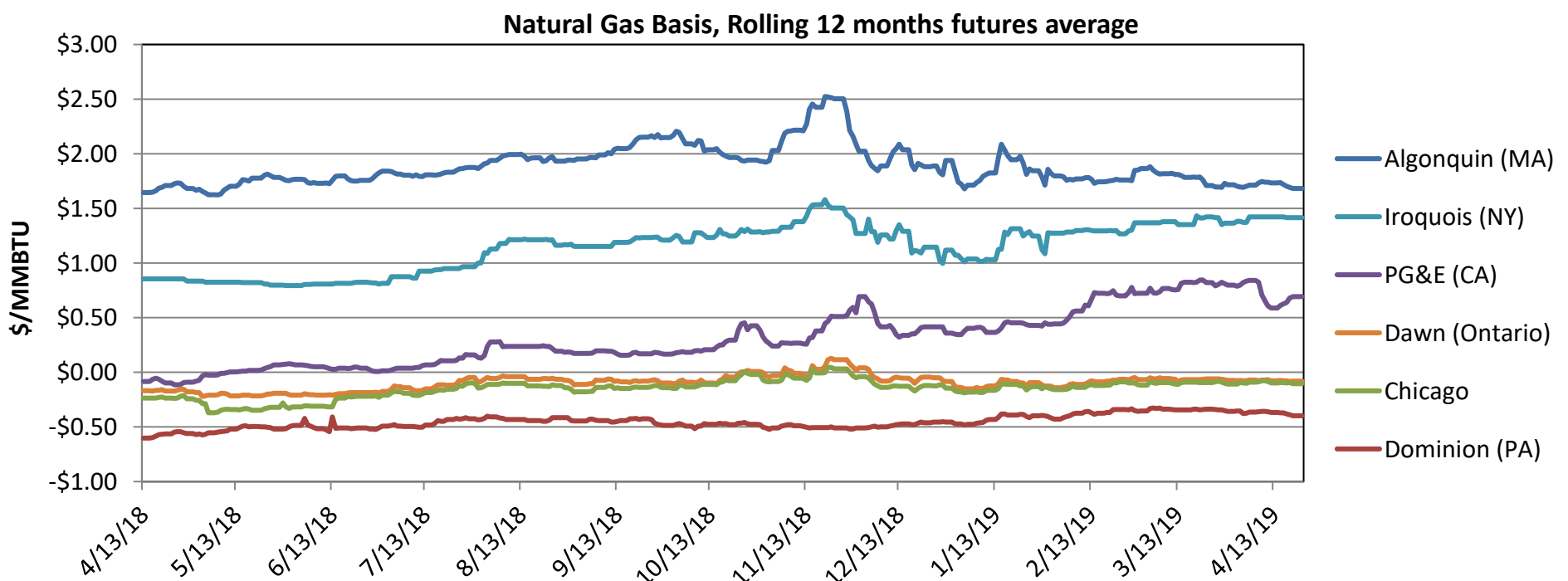
6 - 10 Day Forecast for Apr 27 - May 1

This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase the price for natural gas, oil, and electricity.

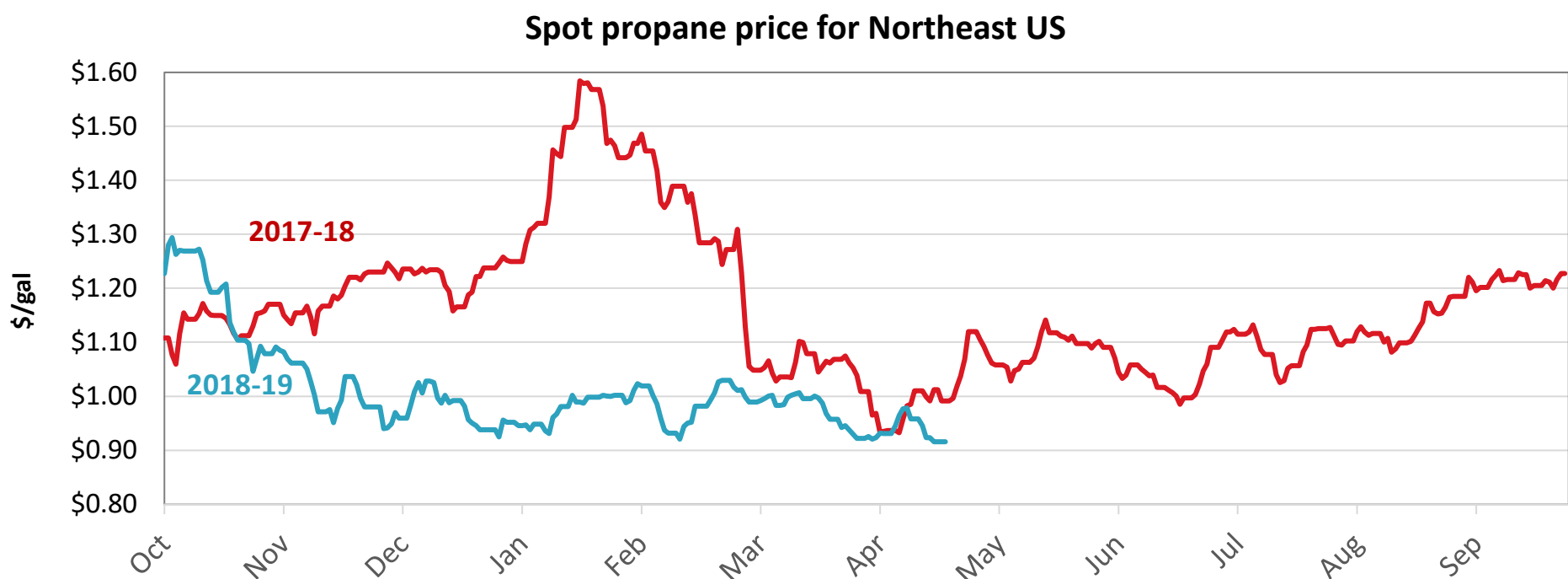
Source: Chart from the National Weather Service Climate Prediction

Natural Gas Basis Futures

Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated by adding the basis price for the appropriate liquidity point to the NYMEX futures contract. Basis prices can be negative (indicating that natural gas at a liquidity point is cheaper than at the Henry Hub) or positive (indicating that natural gas at a different liquidity point is more expensive than at the Henry Hub). Basis prices are a key component of regional electricity and natural gas costs.



Propane



Spot Prices

| | | New England ISO Real Time Power Pricing By Zone (\$/MWh) | | | | | | | Avg | |
|-----------------------------|------------------------|---|---|---------|---------|---------|---------|---------|------------|------------|
| | | 4/15/19 | 4/16/19 | 4/17/19 | 4/18/19 | 4/19/19 | 4/20/19 | 4/21/19 | | |
| Power (\$/MWh) | Maine RT On Pk | 20 | 25 | 28 | 29 | 24 | | | 25 | |
| | Maine RT Off Pk | 16 | 21 | 22 | 24 | 19 | 34 | 23 | 23 | |
| | NH RT On Pk | 22 | 26 | 28 | 30 | 24 | | | 26 | |
| | NH RT Off Pk | 20 | 22 | 23 | 24 | 19 | 34 | 23 | 24 | |
| | Vermont RT On Pk | 22 | 26 | 27 | 29 | 24 | | | 26 | |
| | Vermont RT Off Pk | 20 | 22 | 22 | 23 | 19 | 33 | 22 | 23 | |
| | Connecticut RT On Pk | 22 | 27 | 28 | 31 | 25 | | | 26 | |
| | Connecticut RT Off Pk | 20 | 22 | 23 | 24 | 20 | 34 | 23 | 24 | |
| | Rhode Island RT On Pk | 22 | 27 | 28 | 30 | 24 | | | 26 | |
| | Rhode Island RT Off Pk | 20 | 22 | 23 | 24 | 20 | 34 | 23 | 24 | |
| | NE Mass RT On Pk | 22 | 27 | 28 | 30 | 25 | | | 26 | |
| | NE Mass RT Off Pk | 20 | 22 | 23 | 24 | 20 | 35 | 23 | 24 | |
| | SE Mass RT On Pk | 22 | 27 | 28 | 31 | 25 | | | 26 | |
| | SE Mass RT Off Pk | 20 | 22 | 23 | 24 | 20 | 34 | 23 | 24 | |
| | WC Mass RT On Pk | 22 | 27 | 28 | 31 | 25 | | | 26 | |
| | WC Mass RT Off Pk | 20 | 22 | 23 | 24 | 20 | 34 | 23 | 24 | |
| | | New York ISO Real Time Power Pricing By Zone (\$/MWh) | | | | | | | Avg | |
| | Capital RT On Pk | 40 | 21 | 24 | 33 | 26 | | | 29 | |
| | Capital RT Off Pk | 18 | 16 | 21 | 11 | 14 | 20 | 17 | 17 | |
| | Central RT On Pk | 12 | 20 | 13 | 10 | 17 | | | 14 | |
| | Central RT Off Pk | 17 | 13 | 20 | 10 | 12 | 19 | 16 | 15 | |
| | Hudson RT On Pk | 31 | 21 | 20 | 26 | 24 | | | 24 | |
| | Hudson RT Off Pk | 18 | 15 | 21 | 11 | 14 | 20 | 18 | 17 | |
| | Mohawk RT On Pk | 11 | 20 | 13 | 10 | 17 | | | 14 | |
| | Mohawk RT Off Pk | 17 | 13 | 20 | 10 | 12 | 19 | 16 | 15 | |
| | Milwood RT On Pk | 32 | 21 | 20 | 26 | 24 | | | 24 | |
| | Milwood RT Off Pk | 18 | 15 | 21 | 11 | 14 | 21 | 18 | 17 | |
| | NYC RT On Pk | 58 | 34 | 25 | 26 | 27 | | | 34 | |
| | NYC RT Off Pk | 27 | 25 | 21 | 11 | 14 | 21 | 18 | 19 | |
| | | | PJM Real Time Power Pricing By Zone (\$/MWh) | | | | | | | Avg |
| | | Eastern Hub On Pk | 29 | 25 | 26 | 24 | 24 | | | 25 |
| Eastern Hub Off Pk | | 21 | 21 | 20 | 18 | 18 | 18 | 18 | 19 | |
| Western Hub On Pk | | 29 | 25 | 26 | 23 | 23 | | | 25 | |
| Western Hub Off Pk | | 21 | 20 | 20 | 17 | 17 | 17 | 17 | 19 | |
| PPL Zone On Pk | | 29 | 25 | 26 | 23 | 23 | | | 25 | |
| PPL Zone Off Pk | | 21 | 20 | 19 | 17 | 17 | 17 | 17 | 19 | |
| AEP RT On Pk | | 30 | 25 | 26 | 23 | 23 | | | 26 | |
| AEP RT Off Pk | | 22 | 21 | 20 | 17 | 17 | 17 | 17 | 19 | |
| Chicago RT On Pk | | 29 | 24 | 24 | 22 | 22 | | | 24 | |
| Chicago RT Off Pk | | 21 | 19 | 19 | 17 | 17 | 17 | 17 | 18 | |
| New Jersey Hub On Pk | | 29 | 24 | 26 | 24 | 24 | | | 25 | |
| New Jersey Hub Off Pk | | 21 | 21 | 20 | 18 | 18 | 18 | 18 | 19 | |
| | | California ISO Real Time Power Pricing (\$/MWh) | | | | | | | Avg | |
| | | SoCal Edison RT On Pk | 26 | 27 | 15 | 56 | 34 | | | 32 |
| | SoCal Edison RT Off Pk | 22 | 20 | 26 | 27 | 25 | 16 | 3 | 20 | |
| | | 4/15/19 | 4/16/19 | 4/17/19 | 4/18/19 | 4/19/19 | 4/20/19 | 4/21/19 | Avg | |
| Natural Gas \$/MMBtu | Henry Hub, LA | 2.69 | 2.66 | | 2.54 | | | | 2.63 | |
| | TZ6, MA | 2.75 | 2.65 | 2.46 | 2.20 | | | | 2.52 | |
| | Algonquin, MA | 2.64 | 2.80 | 2.40 | 2.30 | | | | 2.54 | |
| | Chicago Hub, IL | 2.49 | 2.48 | 2.40 | 2.32 | | | | 2.42 | |
| | New York, NY | 2.43 | 2.36 | 2.30 | 2.07 | | | | 2.29 | |
| | Dominion South, PA | 2.42 | 2.30 | 2.26 | 2.05 | | | | 2.26 | |
| | Opal Hub, WY | 1.24 | 1.79 | 1.78 | 1.00 | | | | 1.45 | |
| | PG&E Citygate, CA | 3.18 | 3.34 | 3.25 | 2.83 | | | | 3.15 | |