



Competitive Energy Services Weekly Market Summary

March 4 - 8, 2019

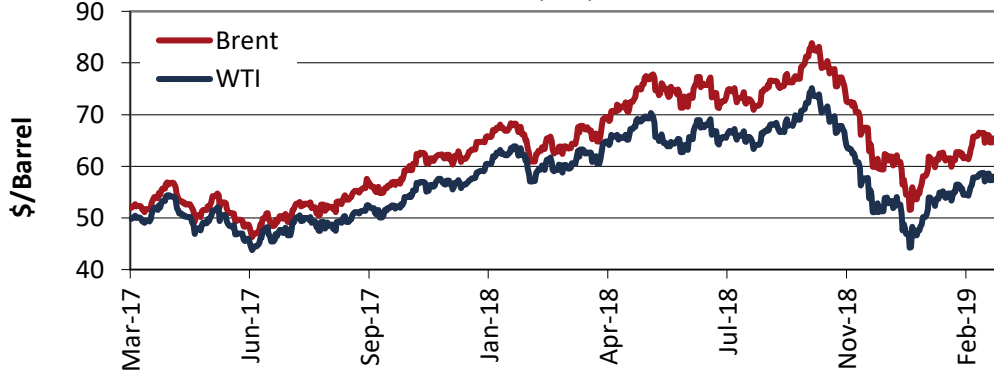
Synopsis of Last Week's Energy Markets

Crude oil rose 0.5% last week as concerns over key economic indicators clashed with signs of growing demand for refined products. Traders have been playing a waiting game as resolution to the US-China trade war may come by the end of the month. Natural gas prices were also relatively flat week-over-week following three consecutive weekly gains. Despite a widening storage deficit, the recent market rally stalled as demand recedes ahead of the shoulder season.

Oil Market

Crude Oil - WTI & Brent

12-Month Forward Strips, past 24 months

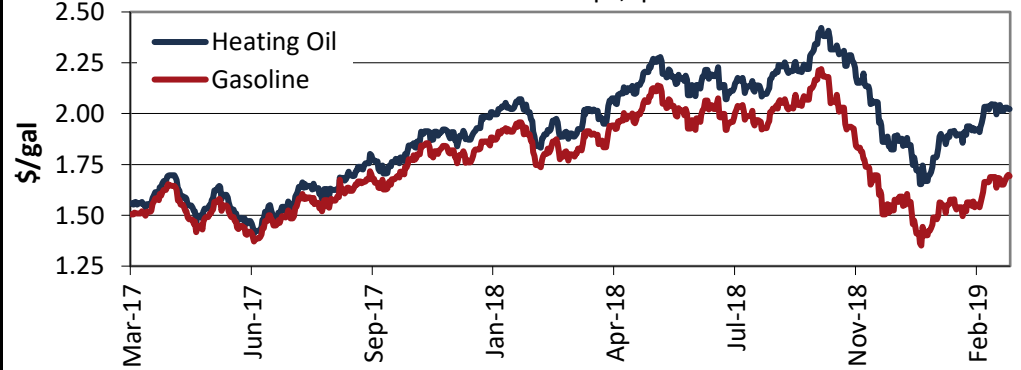


NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$57.60	\$57.30	\$75.39	\$43.82
date	3/8/19	3/1/19	10/3/18	6/21/17
change from last close		0.5%	-23.6%	31%

US STORAGE (in million bbls)		crude oil
domestic stocks as of	3/1/19	453
gain / loss from previous week		7.1
comparison to historic range		within

Heating Oil & Gasoline

NYMEX 12-Month Forward Strips, past 24 months

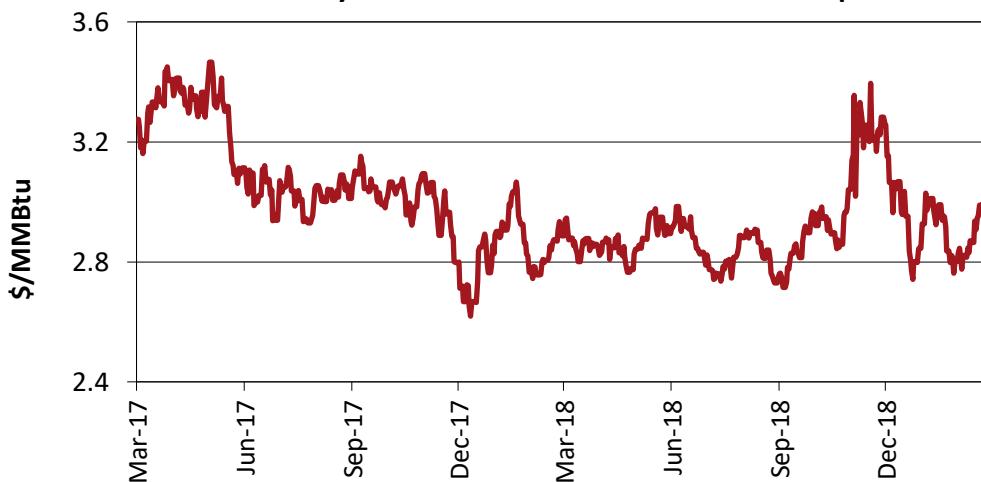


NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$2.02	\$2.01	\$2.43	\$1.41
date	3/8/19	3/1/19	10/3/18	6/21/17
change from last close		0.1%	-17%	43%

US STORAGE (in million bbls)		distillate	propane	gasoline
domestic stocks as of	3/1/19	136	51	251
gain / loss from previous week		-2.4	-2.0	-4.2
comparison to historic range		within	within	above

Natural Gas Market

NYMEX Henry Hub Futures: 12 Month Forward Strip



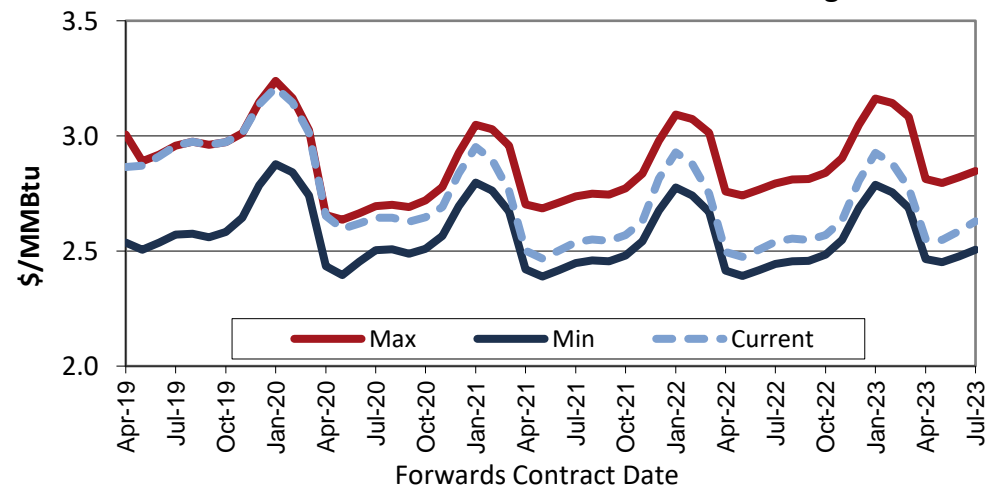
NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBtu	\$3.00	\$2.99	\$3.48	\$2.61
date	3/8/19	3/1/19	4/6/17	12/21/17
change from last close		0.5%	-14%	15%

CES SCORE

12 month	5
18 month	10
24 month	19
36 month	35

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



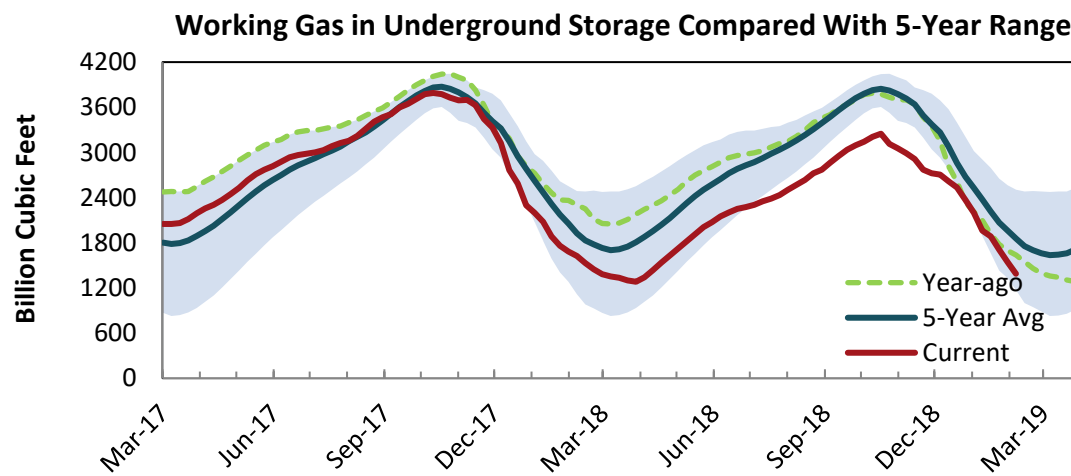
FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBtu)	\$3.00	\$2.88	\$2.86	\$2.79

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	2/22/19	1,539	
Most Recent Stock Level	3/1/19	1,390	
Year-ago Stock Level		1,633	-14.9%
5-Year Average Stock Level		1,854	-25.0%
Most Recent Net Change	3/1/19	-149	
Year-Ago Net Change		-60	
5-Year Average Net Change		-109	

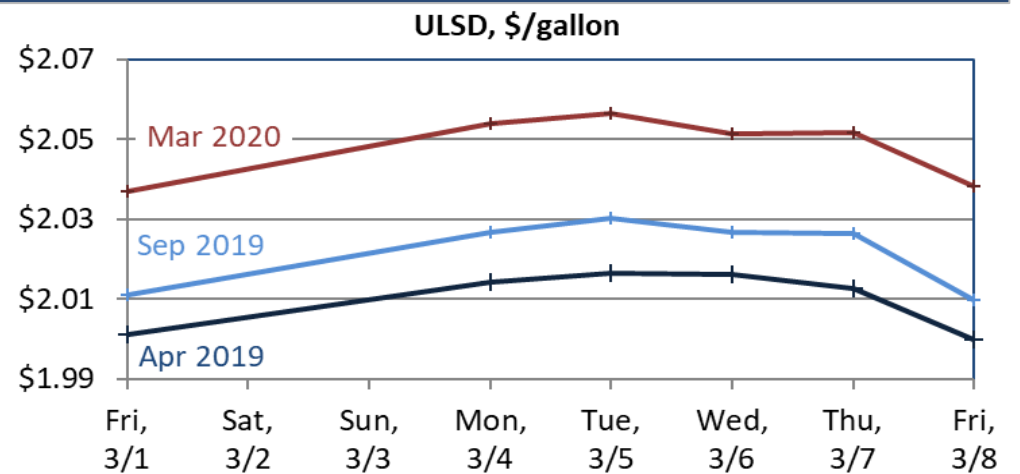
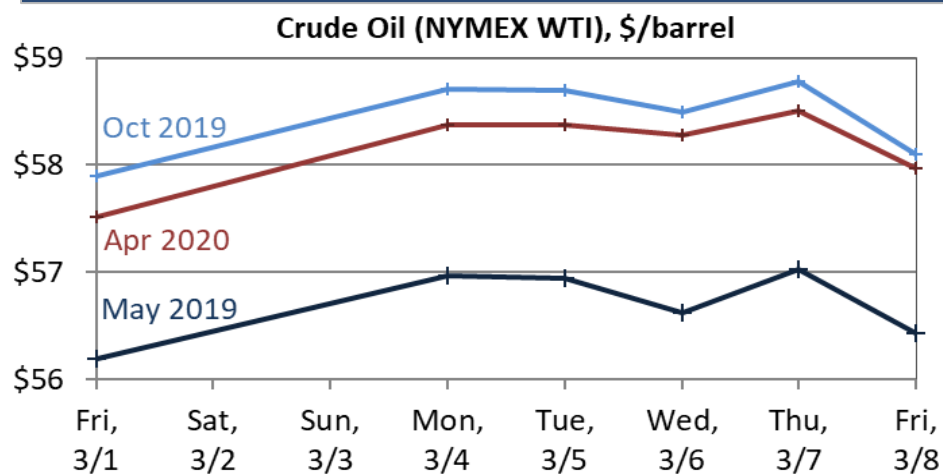
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

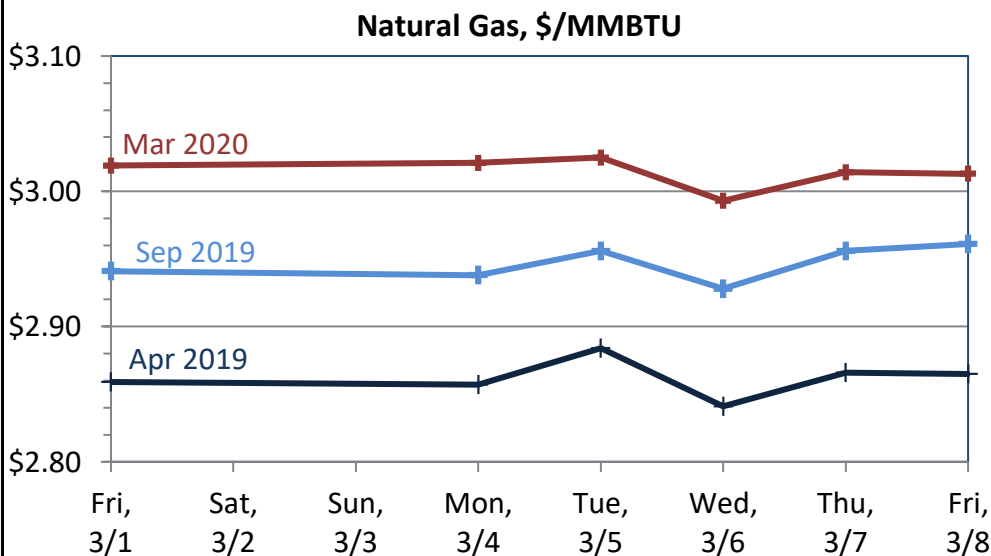
NYMEX Futures Summary Statistics

	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	Mar-19	2/20/19	\$56.92	Apr-19	\$56.07	Dec-19	\$58.22	Apr-19	\$56.07	\$58.16
Heating oil	Mar-19	2/28/19	\$2.02	Apr-19	\$2.00	Feb-20	\$2.04	Jun-19	\$1.99	\$2.04
Natural gas	Mar-19	2/26/18	\$2.86	Apr-19	\$2.87	Jan-20	\$3.21	Apr-19	\$2.87	\$3.10

NYMEX End-of-Day Settlements



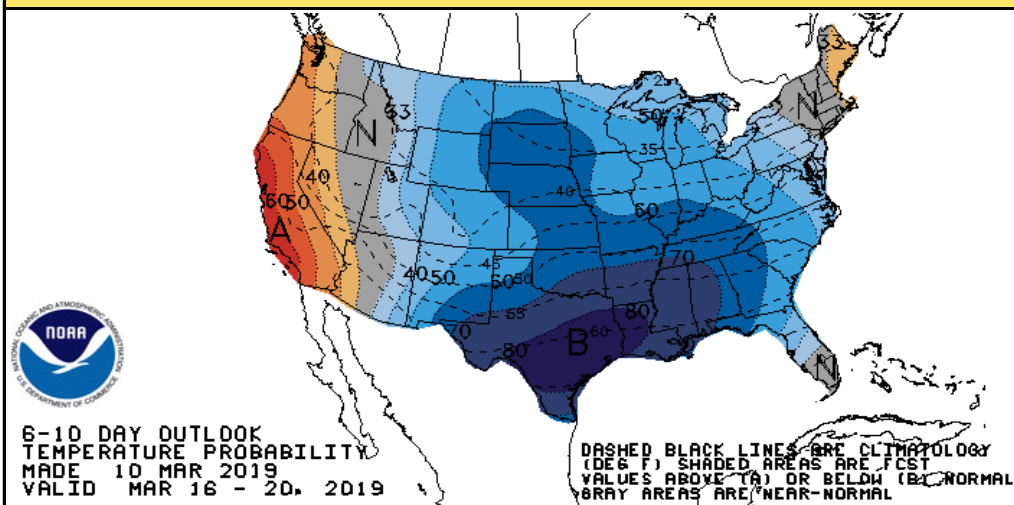
Crude oil rose just 0.5% last week, moving little as a number of factors canceled each other out. Depressed forecasts from the OECD, European Central Bank as well as low reported February numbers in Chinese exports and US job growth stoked fears of a global economic slowdown, offsetting the anticipation that a deal between the US and China on tariffs may come as early as the next two weeks. Sentiment among traders is that the market is in a holding pattern until more news emerges from negotiations. The EIA reported a gain of 7 million barrels in crude stocks, well above expected gains, though dropping product stocks may signal increasing demand. Baker Hughes reported the US oil rig count fell for the third straight week; however, production remains unchanged at all-time highs.



Natural gas rose just a fraction of a cent last week as April contracts settled at \$2.86/MMBtu on Friday afternoon. Cold weather and a widening storage deficit fueled a rally through February. According to the EIA, gas inventories are now 25% below the 5-year average following several larger-than-normal withdrawals. That deficit is expected to widen even further due to March's cold start, but temperatures are forecasted to ease across the Eastern in the coming weeks. Declines in demand herald the approaching shoulder season, which has reined in bullish sentiment and halted price gains. Markets turned down early in the week with April falling nearly ten cents lower in

The National Weather Service near-term forecast calls for colder-than-normal temperatures for a vast majority of the central US. The CES Market Score on page 1 decreased slightly 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 Mar 16 - 20

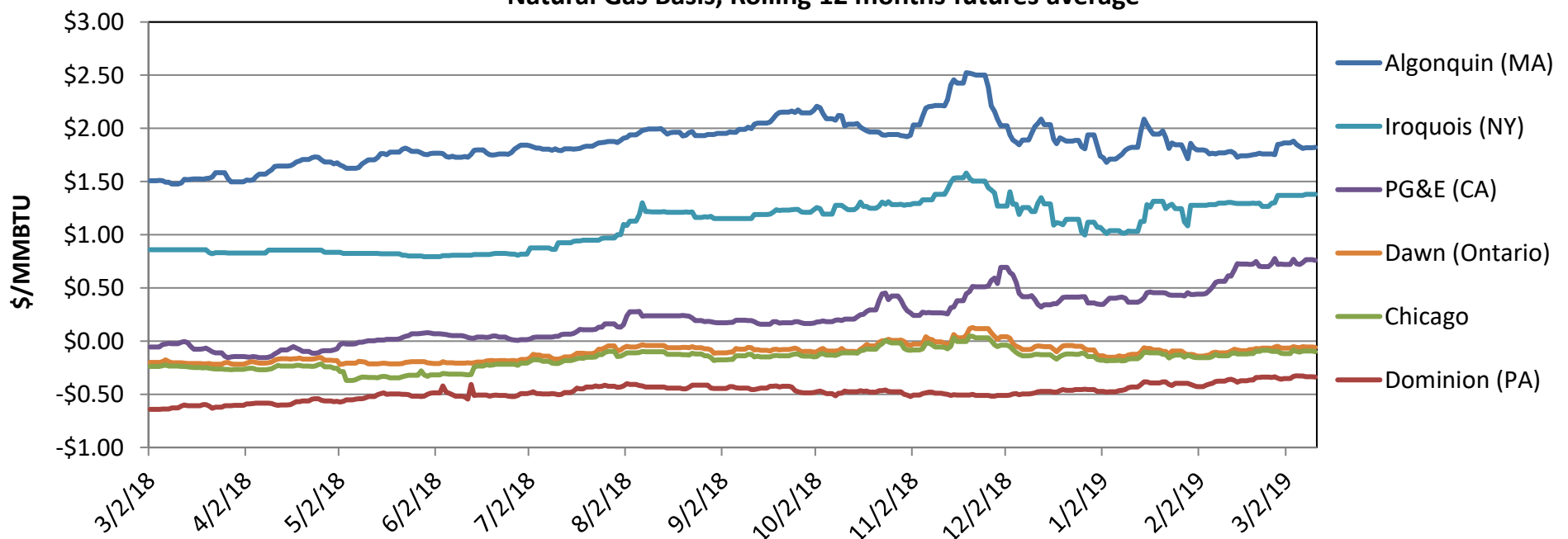
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase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

Source: Chart from the National Weather Service Climate Prediction

Natural Gas Basis Futures

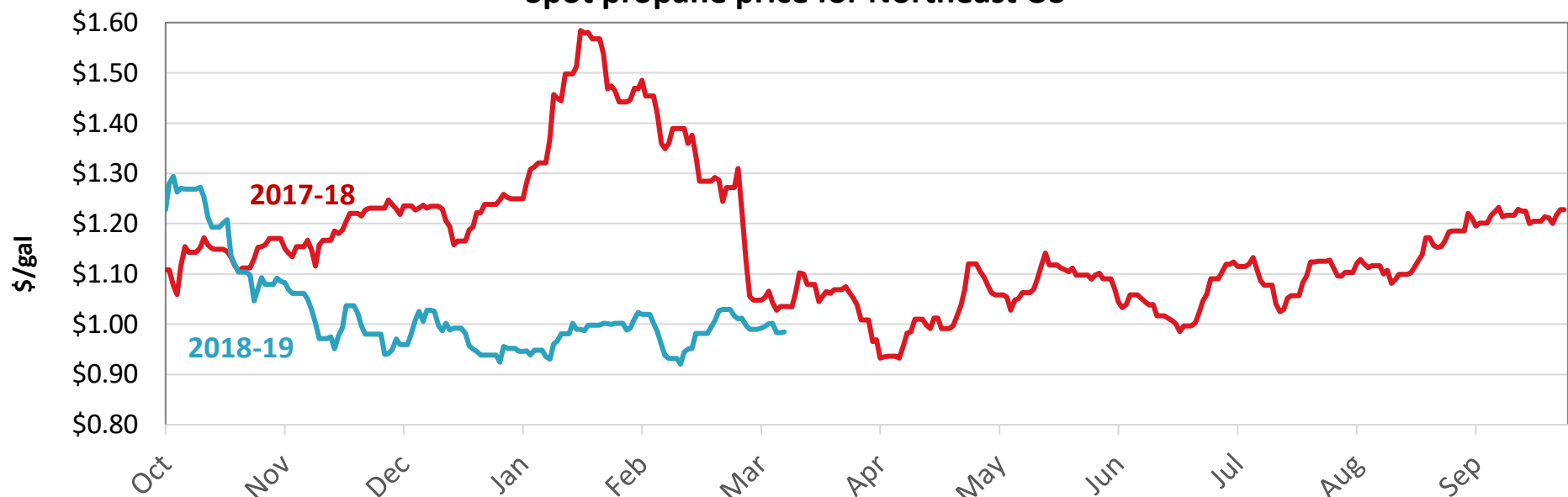
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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.

Natural Gas Basis, Rolling 12 months futures average



Propane

Spot propane price for Northeast US



Spot Prices

		New England ISO Real Time Power Pricing By Zone (\$/MWh)							Avg	
		3/4/19	3/5/19	3/6/19	3/7/19	3/8/19	3/9/19	3/10/19		
Power (\$/MWh)	Maine RT On Pk	60	61	55	48	48			54	
	Maine RT Off Pk	53	46	87	50	46	37	43	52	
	NH RT On Pk	61	63	56	49	49			55	
	NH RT Off Pk	54	48	87	51	46	38	44	52	
	Vermont RT On Pk	60	62	55	48	48			55	
	Vermont RT Off Pk	53	47	86	51	46	37	44	52	
	Connecticut RT On Pk	62	63	57	50	49			56	
	Connecticut RT Off Pk	53	48	86	51	47	37	44	53	
	Rhode Island RT On Pk	61	63	57	50	49			56	
	Rhode Island RT Off Pk	53	49	88	52	46	37	44	53	
	NE Mass RT On Pk	61	63	57	49	49			56	
	NE Mass RT Off Pk	54	48	87	51	46	38	44	53	
	SE Mass RT On Pk	61	63	57	49	49			56	
	SE Mass RT Off Pk	53	48	88	52	46	37	44	53	
	WC Mass RT On Pk	62	63	57	49	49			56	
	WC Mass RT Off Pk	54	48	87	52	47	38	44	53	
		New York ISO Real Time Power Pricing By Zone (\$/MWh)							Avg	
	Capital RT On Pk	38	41	43	42	36			40	
	Capital RT Off Pk	32	35	39	39	37	26	36	35	
	Central RT On Pk	31	33	33	34	33			33	
	Central RT Off Pk	30	33	35	34	35	24	22	30	
	Hudson RT On Pk	37	40	41	40	36			39	
	Hudson RT Off Pk	31	35	39	38	37	26	32	34	
	Mohawk RT On Pk	32	34	34	34	34			34	
	Mohawk RT Off Pk	30	34	36	35	36	24	23	31	
	Milwood RT On Pk	37	40	41	40	36			39	
	Milwood RT Off Pk	31	35	39	38	37	26	32	34	
	NYC RT On Pk	38	55	49	48	37			46	
	NYC RT Off Pk	32	35	39	38	38	26	32	34	
			PJM Real Time Power Pricing By Zone (\$/MWh)							Avg
		Eastern Hub On Pk	35	36	51	36	36			39
Eastern Hub Off Pk		29	29	37	38	38	38	38	35	
Western Hub On Pk		37	37	44	40	40			40	
Western Hub Off Pk		29	32	38	33	33	33	33	33	
PPL Zone On Pk		34	36	51	41	41			40	
PPL Zone Off Pk		28	29	36	44	44	44	44	39	
AEP RT On Pk		42	39	46	44	44			43	
AEP RT Off Pk		31	35	41	35	35	35	35	35	
Chicago RT On Pk		37	41	40	44	44			41	
Chicago RT Off Pk		28	27	33	29	29	29	29	29	
New Jersey Hub On Pk		35	36	51	37	37			39	
New Jersey Hub Off Pk		28	29	37	38	38	38	38	35	
		California ISO Real Time Power Pricing (\$/MWh)							Avg	
		SoCal Edison RT On Pk	58	48	41	52	27			45
	SoCal Edison RT Off Pk	52	55	38	37	38	41	40	43	
		3/4/19	3/5/19	3/6/19	3/7/19	3/8/19	3/9/19	3/10/19	Avg	
Natural Gas \$/MMBtu	Henry Hub, LA	4.25	3.18	2.98	2.92				3.33	
	TZ6, MA	8.61	9.30	6.36	3.93	3.29			6.30	
	Algonquin, MA	10.00	9.52	7.50	4.30	3.26			6.92	
	Chicago Hub, IL	4.50	3.09	2.97	2.83	2.81			3.24	
	New York, NY	5.10	4.38	3.03	2.86	2.78			3.63	
	Dominion South, PA	4.13	3.02	2.87	2.74	2.73			3.10	
	Opal Hub, WY	4.93	3.25	3.59	3.54	3.48			3.76	
	PG&E Citygate, CA	5.80	4.28	4.25	3.90	3.74			4.39	