



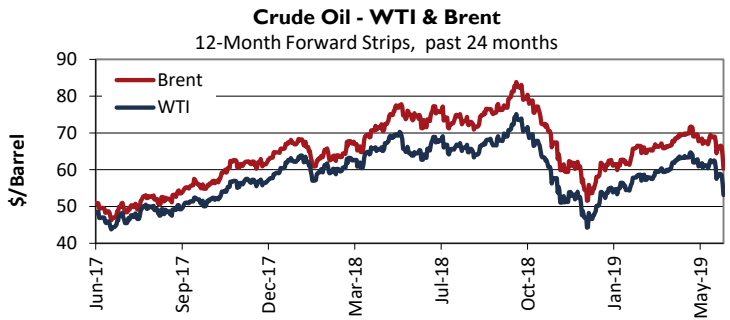
Competitive Energy Services Weekly Market Summary

May 27 - 31, 2019

Synopsis of Last Week's Energy Markets

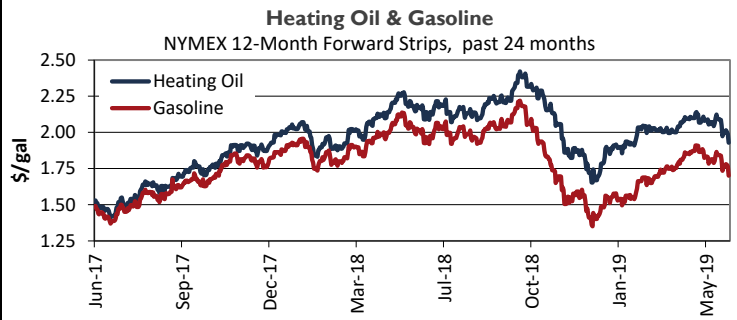
Crude oil fell 9% last week, capping a monthly loss of 16%, as multiple trade conflict concerns and a bearish EIA report overwhelmed tensions in the Middle East. Natural gas prices slipped 6% last week as production continues to outweigh rising exports and seasonal gains in demand. The storage deficit has fallen to 5% vs. the 5-year average and may continue to narrow in the coming weeks.

Oil Market



NYMEX WTI	last close	previous week	24-month high	24-month low
12 month strip, \$/bbl	\$53.31	\$58.42	\$75.39	\$43.82
date	5/31/19	5/24/19	10/3/18	6/21/17
change from last close		-8.7%	-29.3%	22%

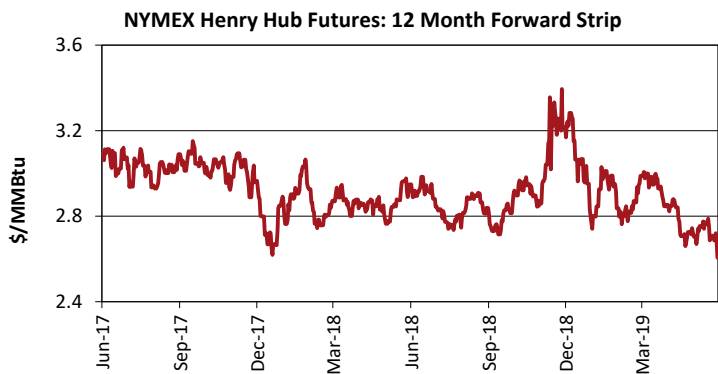
US STORAGE (in million bbls)	crude oil
domestic stocks as of	5/24/19
	476
gain / loss from previous week	-0.3
comparison to historic range	within



NYMEX Heating Oil	last close	previous week	24-month high	24-month low
12 month strip, \$/gal	\$1.86	\$2.00	\$2.43	\$1.41
date	5/31/19	5/24/19	10/3/18	6/21/17
change from last close		-7.1%	-24%	31%

US STORAGE (in million bbls)	distillate	propane	gasoline
domestic stocks as of	5/24/19		
	125	66	231
gain / loss from previous week	-1.6	-0.1	2.2
comparison to historic range	within	within	within

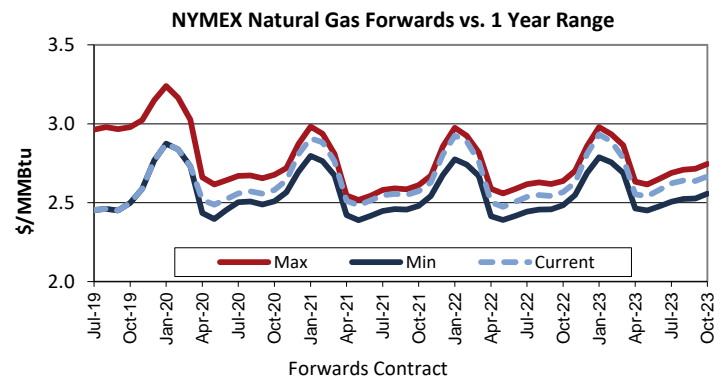
Natural Gas Market



NYMEX PRICING	last close	previous week	24-month high	24-month low
12 mo. strip, \$/MMBtu	\$2.60	\$2.71	\$3.43	\$2.60
date	5/31/19	5/24/19	11/14/18	5/31/19
change from last close		-4.0%	-24%	0%

CES SCORE	
12 month	90
18 month	79
24 month	67
36 month	56

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.



FORWARDS	12 month	18 month	24 month	36 month
strip (\$/MMBtu)	\$2.60	\$2.61	\$2.62	\$2.63

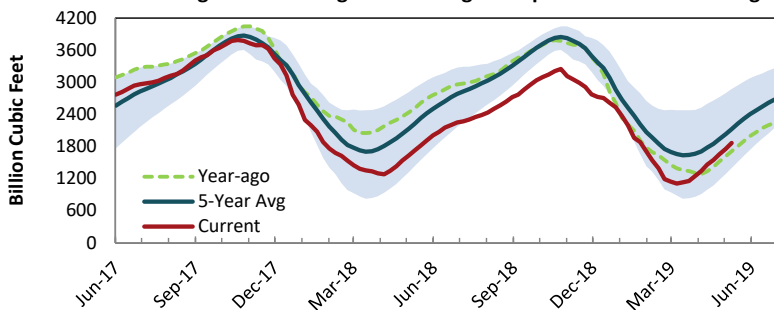
Natural gas futures are useful for both natural gas and electricity consumers because they drive electricity pricing in many U.S. markets. This chart compares the current natural gas price for each forward month on the NYMEX exchange to the highest and lowest prices for the same month over the past 12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



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Natural Gas Storage

Working Gas in Underground Storage Compared With 5-Year Range



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	5/17/19	1,753	
Most Recent Stock Level	5/24/19	1,867	
Year-ago Stock Level		1,711	9.1%
5-Year Average Stock Level		2,124	-12.1%
Most Recent Net Change	5/24/19	114	
Year-Ago Net Change		95	
5-Year Average Net Change		97	

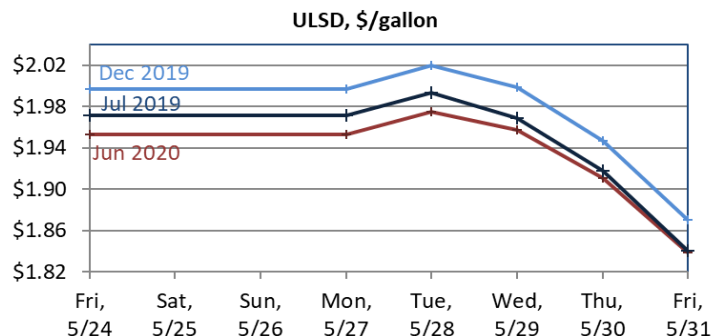
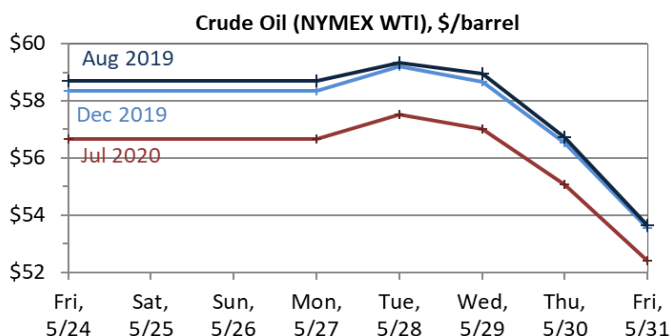
Data Source: EIA <http://tonto.eia.doe.gov/oog/info/ngs/ngs.html>

Market Assessment

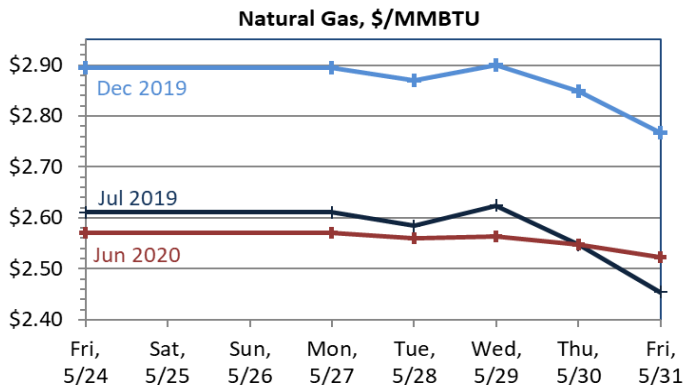
NYMEX Futures Summary Statistics

	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	Jun-19	5/21/19	\$62.99	Jul-19	\$53.50	Sep-19	\$53.73	Jun-20	\$52.41	\$53.24
Heating oil	Jun-19	5/31/19	\$1.84	Jul-19	\$1.84	Jan-20	\$1.87	Jun-20	\$1.84	\$1.87
Natural gas	Jun-19	5/29/19	\$2.63	Jul-19	\$2.45	Jan-20	\$2.87	Sep-19	\$2.45	\$2.75

NYMEX End-of-Day Settlements



Crude oil dropped 9% last week, finishing May down 16% for the month. Concerns over the US-China trade conflict continued to pressure prices, particularly on reports in Chinese state-owned media that critical rare earth exports to the US may be cut. Spurring fears of conflict with another country, the Trump administration on Thursday night released a statement threatening 5% tariffs on all imports from Mexico starting June 10 unless action is taken on illegal immigration. The announcement threatens to derail the ratification of the revised North American Free Trade Agreement. Tensions in the Middle East continue to flare as Saudi Arabia claimed evidence of Iranian involvement in Houthi attacks on Saudi assets. US and Iranian official traded mixed messages on potential resolution. US crude stock draws beat bullish estimates, and gasoline stocks rose despite the start of driving season.



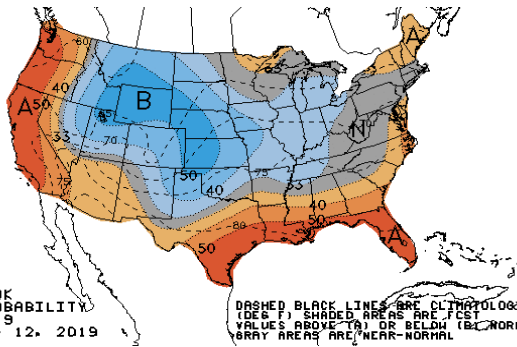
Natural gas prices fell 6% last week following an unexpectedly bearish storage estimate from the EIA on Thursday. Storage has been building faster than usual this spring, but rising demand for electricity generation was expected to moderate injections. The EIA instead reported that mid-May saw an injection of 114 Bcf that eclipsed the typical 97 Bcf injection and surpassed most analysts' expectations. Strong production could continue to outweigh gains in exports and demand in the coming weeks, closing the storage deficit and weighing on futures markets. Front-month futures settled at \$2.45/MMBtu on Friday afternoon and traded below \$2.40/MMBtu on Monday, reaching 3-year lows.

The National Weather Service near-term forecast calls for average to below average temperatures for most of the continental US, with above average temperatures along the West Coast and in the South. The CES Market Score on page 1 improved 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 OUTLOOK
TEMPERATURE PROBABILITY
MADE 2 JUN 2019
VALID JUN 08 - 12, 2019



6 - 10 Day Forecast for Jun 8 - 12

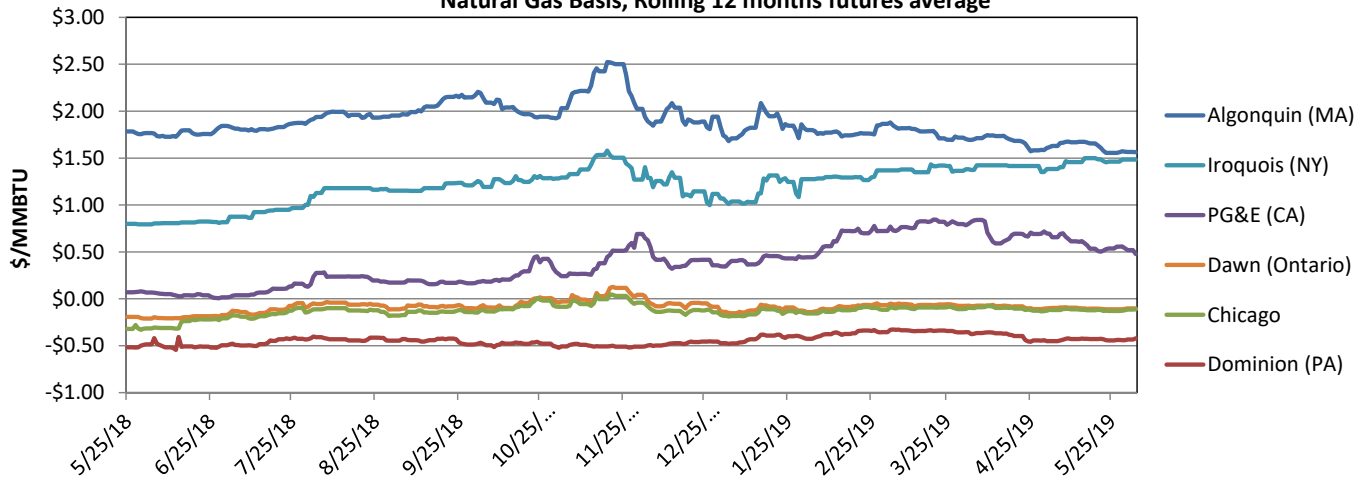
This map depicts forecasted temperatures for next week compared to the long term average. The blue/purple areas are forecast to be colder than normal, white areas are normal, and yellow/orange/red areas are warmer than normal. Abnormally hot weather in the summer and cold weather in the winter can increase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

Source: Chart from the National Weather Service Climate Prediction

Natural Gas Basis Futures

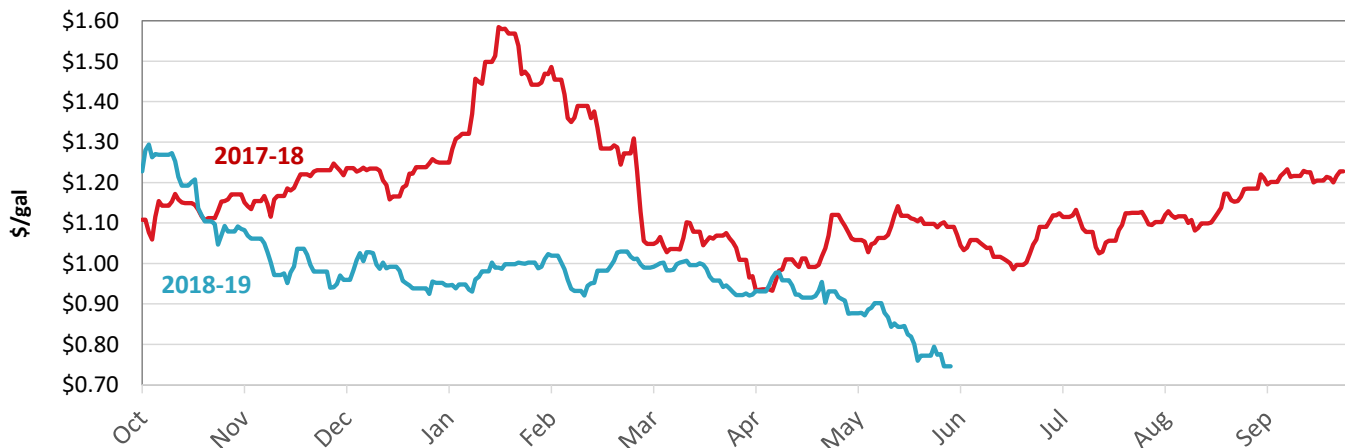
Basis is the price differential between Henry Hub, located in Erath, Louisiana, and the liquidity point closest to the end-user. Because Henry Hub is used as the delivery point for NYMEX natural gas futures contracts, the cost of using natural gas in any geographic region of the country can be approximated 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	
		5/27/19	5/28/19	5/29/19	5/30/19	5/31/19	6/1/19	6/2/19		
Power (\$/MWh)	Maine RT On Pk	21	32	21	17	28			24	
	Maine RT Off Pk	19	22	20	16	6	23	26	19	
	NH RT On Pk	21	31	21	17	28			24	
	NH RT Off Pk	20	22	20	16	6	23	26	19	
	Vermont RT On Pk	20	30	21	16	27			23	
	Vermont RT Off Pk	19	21	20	16	6	22	25	19	
	Connecticut RT On Pk	21	31	21	17	27			23	
	Connecticut RT Off Pk	20	22	20	16	6	23	26	19	
	Rhode Island RT On Pk	21	31	21	17	28			23	
	Rhode Island RT Off Pk	20	22	20	16	6	23	26	19	
	NE Mass RT On Pk	21	32	21	17	28			24	
	NE Mass RT Off Pk	20	22	21	16	6	23	26	19	
	SE Mass RT On Pk	21	32	21	17	28			24	
	SE Mass RT Off Pk	20	22	21	16	6	23	26	19	
	WC Mass RT On Pk	21	31	21	17	28			24	
	WC Mass RT Off Pk	20	22	20	16	6	23	26	19	
			New York ISO Real Time Power Pricing By Zone (\$/MWh)							Avg
	Power (\$/MWh)	Capital RT On Pk	21	30	19	15	25			22
		Capital RT Off Pk	19	22	12	14	16	22	31	20
		Central RT On Pk	20	29	18	15	27			22
Central RT Off Pk		16	17	10	13	16	14	12	14	
Hudson RT On Pk		22	30	17	15	28			23	
Hudson RT Off Pk		19	21	12	14	16	21	25	18	
Mohawk RT On Pk		19	27	18	14	23			20	
Mohawk RT Off Pk		16	17	10	14	15	13	11	14	
Milwood RT On Pk		22	31	19	16	31			24	
Milwood RT Off Pk		19	21	12	15	17	22	27	19	
NYC RT On Pk		22	32	28	16	33			26	
NYC RT Off Pk		19	21	12	15	17	23	29	19	
		PJM Real Time Power Pricing By Zone (\$/MWh)							Avg	
Power (\$/MWh)		Eastern Hub On Pk	23	32	68	19	19			32
	Eastern Hub Off Pk	16	15	19	17	17	17	17	17	
	Western Hub On Pk	22	35	31	20	20			26	
	Western Hub Off Pk	16	15	20	19	19	19	19	18	
	PPL Zone On Pk	22	32	30	19	19			24	
	PPL Zone Off Pk	16	14	18	17	17	17	17	17	
	AEP RT On Pk	21	35	30	28	28			28	
	AEP RT Off Pk	16	15	20	20	20	20	20	19	
	Chicago RT On Pk	10	14	27	27	27			21	
	Chicago RT Off Pk	15	0	19	19	19	19	19	16	
	New Jersey Hub On Pk	22	32	23	20	20			23	
	New Jersey Hub Off Pk	16	14	19	17	17	17	17	17	
			California ISO Real Time Power Pricing (\$/MWh)							Avg
	Power (\$/MWh)	SoCal Edison RT On Pk	(6)	13	29	45	26			21
SoCal Edison RT Off Pk		14	13	17	23	22	27	17	19	
Natural Gas \$/MMBtu			5/27/19	5/28/19	5/29/19	5/30/19	5/31/19	6/1/19	6/2/19	Avg
	Henry Hub, LA			2.60	2.69	2.66	2.54			2.62
	TZ6, MA			2.37	2.38	2.33	2.20			2.32
	Algonquin, MA			2.36	2.35	2.27	2.15			2.28
	Chicago Hub, IL			2.34	2.42	2.33	2.21			2.33
	New York, NY			2.24	2.27	2.20	2.12			2.21
	Dominion South, PA			2.18	2.20	2.19	2.10			2.17
	Opal Hub, WY			1.70	1.73	1.79	1.38			1.65
PG&E Citygate, CA			3.22	3.26	3.21	3.09			3.20	