



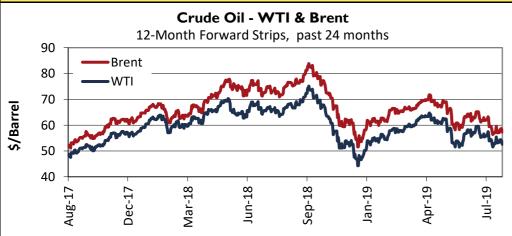
Competitive Energy Services Weekly Market Summary

August 19 - 23, 2019

Synopsis of Last Week's Energy Markets

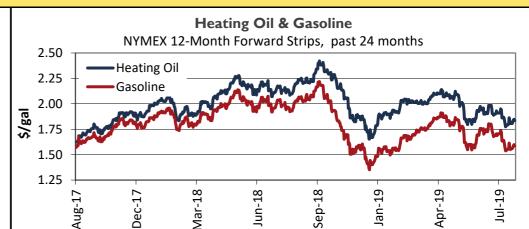
Crude prices fell 1 % last week as trade war developments and economic concerns continue to exert pressure on markets. Natural gas prices slumped 2% last week as heat faded, production soared, and trade tensions rose. Inventories remain 4% below average levels but are expected to fill quickly as summer comes to a close.

Oil Market



		_			
NYMEX WTI	last close	previous week	24-month high	24-month low	
12 month strip, \$/bbl	\$52.80	\$53.33	\$75.39	\$44.20	
date	8/23/19	8/16/19	10/3/18	12/24/18	
change from last close		-1.0%	-30.0%	19%	

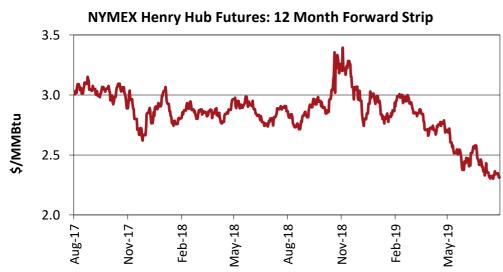
US STORAGE (in million	crude oil	
domestic stocks as of	8/16/19	438
gain / loss from previous	-2.7	
comparison to historic r	ango	within



NYMEX Heating Oil	last close	previous week	24-month high	24-month low	
12 month strip, \$/gal	\$1.81	\$1.81	\$2.43	\$1.62	
date	8/23/19	8/16/19	10/3/18	8/28/17	
change from last close		0.2%	-25%	12%	

US STORAGE (in million bbls)	distillate	propane	gasoline
domestic stocks as of 8/16/19	138	90	234
gain / loss from previous week	2.6	4.0	0.3
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	\$2.31	\$2.34	\$3.43	\$2.30	
date	8/23/19	8/16/19	11/14/18	8/12/19	
change from last close		-1.4%	-33%	1%	

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CE	S SCOI	RE	'
12 m	nonth	97	C
18 m	nonth	98	i
24 m	nonth	98	٧
36 m	nonth	97	C

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.

3.5 3.0 2.5 2.0 Apr-22-0ct-20 Jan-23-0ct-23 Apr-23-0ct-23 A

FORWARDS strip (\$/MMBTu)	12 month	18 month	24 month	36 month	
strip (\$/MMBTu)	\$2.31	\$2.37	\$2.36	\$2.39	

Forwards Contract

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.

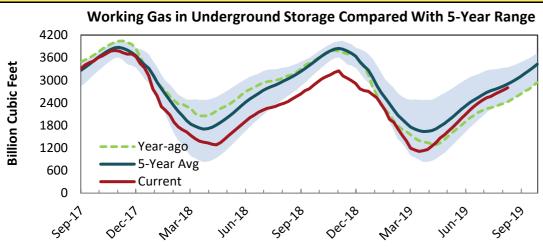


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Natural Gas Storage



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.

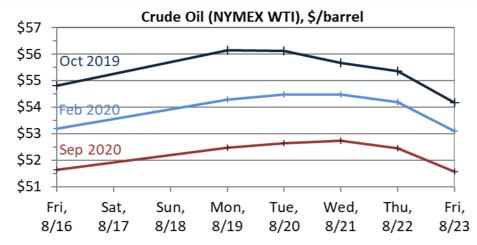
EIA Storage Data	date	Bcf	+/ -
Previous Stock Level	8/9/19	2,738	
Most Recent Stock Level	8/16/19	2,797	
Year-ago Stock Level		2,428	15.2%
5-Year Average Stock Level		2,900	-3.6%
Most Recent Net Change	8/16/19	59	
Year-Ago Net Change		47	
5-Year Average Net Change		51	

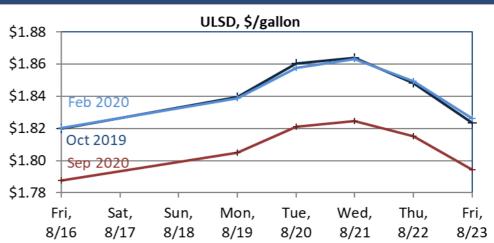
Data Source: EIA http://tonto.eia.doe.gov/oog/info/ngs/ngs.html

Market Assessment

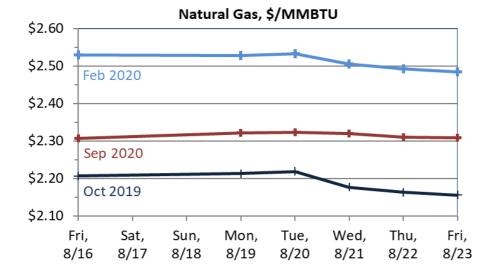
	NYMEX Futures Summary Statistics										
	Last Expired Prompt Most Expensive Least Expensive Next Winter Avg										Next Winter Avg
	Contract Exp. Date Price Month Price Next 12 Months Price Next 12 Months Price						(Nov19-Mar20)				
Crud	le oil	Sep-19	8/20/19	\$56.34	Oct-19	\$54.17	Oct-19	\$54.17	Aug-20	\$51.75	\$53.42
Heati	ng oil	Aug-19	7/31/19	\$1.96	Sep-19	\$1.82	Jan-20	\$1.83	Jun-20	\$1.79	\$1.83
Natur	al gas	Aug-19	7/29/19	\$2.14	Sep-19	\$2.15	Jan-20	\$2.51	Sep-19	\$2.15	\$2.40

NYMEX End-of-Day Settlements





Crude prices fell 1% last week. China announced Friday the implementation of tariffs on \$75 billion worth of US goods to start in September. These tariffs come as a retaliation to new tariffs announced by the US earlier this month, scheduled to take effect in December after pushback over the effects of the original September start date on consumers. Traders were disappointed after remarks from Fed chair Jay Powell, who indicated he was watching the global markets for further US impacts but did not give any signs of an interest rate cut, which had been anticipated. Domestic crude stockpiles declined last week, but gasoline and diesel inventories both increased, adding to sentiments of decreased demand.



Natural gas prices slumped last week as heat faded, production soared, and trade tensions looked to be escalating with new tariffs proposed by both China and the U.S. Inventories are 4% below 5-year average levels after the EIA reported a large storage build, and forecasts pointed to fading summer heat and a corresponding increase in fall injections. August contracts ended the week at \$2.15/MMBtu, a 2% decline from the previous close, but received a boost on Monday morning after President Trump's announcement that trade negotiations with China would resume. China is seen as a major source of LNG demand growth and trade tensions have cut off U.S. access to that market.

The National Weather Service near-term forecast calls for below average temperatures for much of the Central U.S. and above average temperatures along the Eastern seaboard and Western U.S. The CES Market Score on page 1 increased from the previous week. Clients with electricity or natural gas contracts expiring in 2019 should consult with a CES representative for customized guidance.

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National Weather Service Forecast

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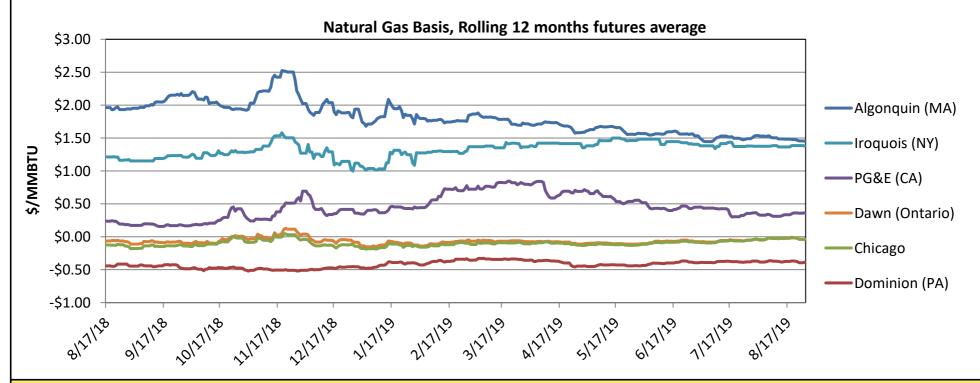
6 - 10 Day Forecast for Aug 31 - Sep 4

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.

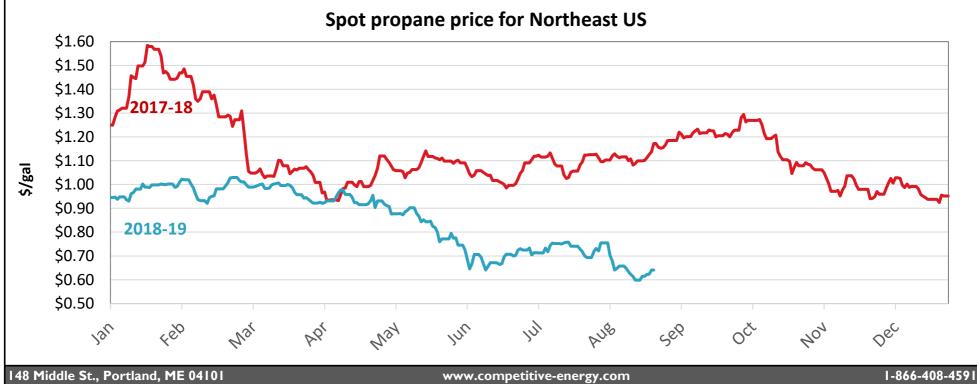
Source: Chart from the National Weather Service Climate Prediction

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



August 19 - 23, 2019

Spot Prices

				ot Pric	<u> </u>				
	New England ISO Real Time P		_	-	0/22/10	0/22/10	0/24/10	8/25/19	Δνα
	Maine RT On Pk	8/19/19	8/20/19	8/21/19	8/22/19	8/23/19	8/24/19	8/25/19	Avg
		32	24	27	33	19	4.4	42	27
	Maine RT Off Pk NH RT On Pk	27 32	18 24	18 27	20 33	22 19	11	13	18 27
							4.4	42	
	NH RT Off Pk Vermont RT On Pk	27	18	18	20	22	11	13	19 27
		31	24	27	32	19	4.4	42	
	Vermont RT Off Pk	26	18	18	20	22	11	13	18 27
	Connecticut RT On Pk	31	24	27	32	19	4.4	4.2	
	Connecticut RT Off Pk	26	18	18	19	22	11	13	18
	Rhode Island RT On Pk	31	24	27	33	19	4.4	10	27
	Rhode Island RT Off Pk	27	18	18	20	22	11	13	18
	NE Mass RT On Pk	32	24	27	33	19		10	27
	NE Mass RT Off Pk	27	19	18	20	23	11	13	19
	SE Mass RT On Pk	32	24	27	33	19		10	27
	SE Mass RT Off Pk	27	19	18	20	22	11	13	19
	WC Mass RT On Pk	31	24	27	33	19	4.4	10	27
	WC Mass RT Off Pk	27	18	18	20	22	11	13	19
	New York ISO Real Time Pow								Avg
	Capital RT On Pk	24	22	33	29	17	42	42	25
(ر	Capital RT Off Pk	16	14	20	18	21	12	12	16
(\$/MWh	Central RT On Pk	22	21	31	27	16	4.4	42	23
≥	Central RT Off Pk	13	13	18	17	19	11	12	15
	Hudson RT On Pk	26	23	34	29	18	42	42	26
Power	Hudson RT Off Pk	15	14	20	19	21	12	12	16
Po	Mohawk RT On Pk	22	22	31	27	17	42	42	24
	Mohawk RT Off Pk	13	13	18	18	19	12	12	15
	Milwood RT On Pk	27	23	36	29	18	12	12	27
	Milwood RT Off Pk	15	14	20	19	21	12	12	16
	NYC RT On Pk NYC RT Off Pk	30 15	24 14	40	42 20	18 22	12	13	31 17
				21	20	22	12	13	
	PJM Real Time Power Pricing Eastern Hub On Pk	29	25	28	57	13			Avg 30
	Eastern Hub Off Pk	15	17	18	17	17	11	11	15
	Western Hub On Pk	28	26	28	29	18			26
	Western Hub Off Pk	16	17	17	18	18	15	14	16
	PPL Zone On Pk	28	24	27	26	15			24
	PPL Zone Off Pk	15	17	17	16	17	13	12	15
	AEP RT On Pk	35	26	27	25	21			27
	AEP RT Off Pk	17	18	17	18	19	16	15	17
	Chicago RT On Pk	29	22	25	23	21			24
	Chicago RT Off Pk	17	17	16	17	6	16	14	15
	New Jersey Hub On Pk	29	24	27	26	14			24
	New Jersey Hub Off Pk	15	17	17	17	17	12	12	15
	California ISO Real Time Power			17	17	17	12	12	
	SoCal Edison RT On Pk		30	35	23	37			Avg 31
		29					22	45	
	SoCal Edison RT Off Pk	26	28	25	27	34	33	45	31
3	Henry Hub, LA	8/19/19 2.26	8/20/19 2.35	8/21/19 2.31	8/22/19 2.28	8/23/19 2.15	8/24/19	8/25/19	Avg 2.27
1Bt									
\$/MMBtu	TZ6, MA	2.34	2.24	2.16	1.85	1.81			2.08
1/\$	Algonquin, MA	2.43	2.34	2.23	1.90	1.90			2.16
jas	Chicago Hub, IL	2.08	2.14	2.11	1.97	1.87			2.03
ale	New York, NY	2.04	2.00	1.85	1.65	1.42			1.79
Vatural Gas	Dominion South, PA	1.93	1.89	1.80	1.65	1.38			1.73
Na	Opal Hub, WY	1.86	1.81	1.84	1.84	1.84			1.84
ططام 3	PG&E Citygate, CA	2.64	2.82	2.67	2.61	2.56			2.66