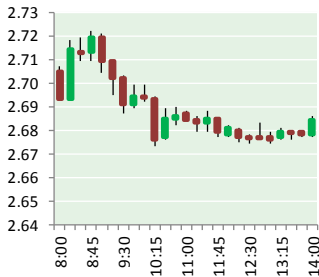


NATURAL GAS



APRIL 3, 2019

Prior Day's NYMEX MAY-19 Contract (CT)



NYMEX NG Futures

Month	Close	Change
May-19	2.684	(0.024)
Jun-19	2.722	(0.027)
Jul-19	2.775	(0.027)
Aug-19	2.801	(0.022)
Sep-19	2.798	(0.016)
Oct-19	2.818	(0.012)
Nov-19	2.873	(0.005)
Dec-19	3.015	0.006
Jan-20	3.103	0.009
Feb-20	3.045	0.011
Mar-20	2.924	0.007
Apr-20	2.625	0.010
May-20	2.585	0.010
Jun-20	2.610	0.011
Jul-20	2.638	0.012
Aug-20	2.640	0.010
Sep-20	2.623	0.011
Oct-20	2.646	0.013
Nov-20	2.692	0.013
Dec-20	2.843	0.011
Jan-21	2.956	0.011
Feb-21	2.906	0.011
Mar-21	2.781	0.014
Apr-21	2.523	0.011
1YR Strip	2.849	(0.008)
2019	2.811	(0.016)
5YR Strip	2.741	0.006

IN THE NEWS

Natural gas pipeline in Germany holds "green" methane; Austria has similar plans— ARS Technica reported: A Düsseldorf, Germany-based energy company called Uniper announced last week that it sent methane made from renewable hydrogen into the local natural gas pipeline. The methanation plant in Falkenhagen that made the synthetic methane opened in May 2018 (PDF), and

- Natural gas pipeline in Germany holds "green" methane; Austria has similar plans
- US Gain brings a new RNG project online, sends fuel to California

the plant's operators began testing the process to combine renewable hydrogen with carbon dioxide from a nearby bioethanol plant. The synthetic methane is sent into the local natural gas pipeline, where it's used along with traditional natural gas. "Today, the plant produces up to 1,400 cubic meters of synthetic methane (SNG) per day, which corresponds to approximately 14,500 kWh [kilowatt hours] of energy," a Uniper press release noted. The methanation plant receives renewable hydrogen (H2) from a nearby plant that has harnessed excess wind and solar power for electrolysis-based hydrogen synthesis since 2013. For more on this story visit [arstechnica.com](https://bit.ly/2WPb19p) or click <https://bit.ly/2WPb19p>

US Gain brings a new RNG project online, sends fuel to California— Biomass Magazine reported: U.S. Gain is pleased to announce a new renewable natural gas (RNG) development project located in Springfield, Nebraska, which is producing much-needed clean fuel for the transportation industry, as well as a RNG supply contract for Southern California Gas Company's (SoCalGas) natural gas fueling station network. Both projects will be impactful in the development and supply of RNG across the country. As a vertically-integrated RNG provider, U.S. Gain is diligently working with producers and developers on a multitude of landfill, agricultural and wastewater treatment RNG development projects—converting their waste to financially-rewarding, clean fuel. One of the most recent projects that U.S. Gain was involved in is the Sarpy County Landfill located in Springfield, Nebraska. For more on this story visit [biomassmagazine.com](https://bit.ly/2K4S6FO) or click <https://bit.ly/2K4S6FO>

12 MONTH CANDLESTICK (WEEKLY)



Prompt Natural Gas (NG) Daily Sentiment

BEARISH



RESISTANCE
2.71 & 2.74
SUPPORT
2.66 & 2.64

Trading Summary

NATURAL GAS

Futures	Close	Change
NG	2.684	(0.024)
Volume	313,433	(274,458)
Open Int.	1,173,542	4,351

CRUDE AND GASOLINE

Futures	Close	Change
Crude	62.58	0.99
RBOB	1.9285	0.0296
Crude/NG	23.32	0.57

METALS

Futures	Close	Change
Gold	1,290.00	(1.50)

EQUITIES

Exchange	Close	Change
DOW	26,179.13	(79.29)
S&P 500	-2,246.37	0.05

CURRENCY

Currency	Close	Change
EUR/USD	1.1233	0.0029
USD/CND	1.2405	(0.0014)

Contact Us



Mansfield Energy Corp
1025 Airport Pkwy
Gainesville, GA 30501

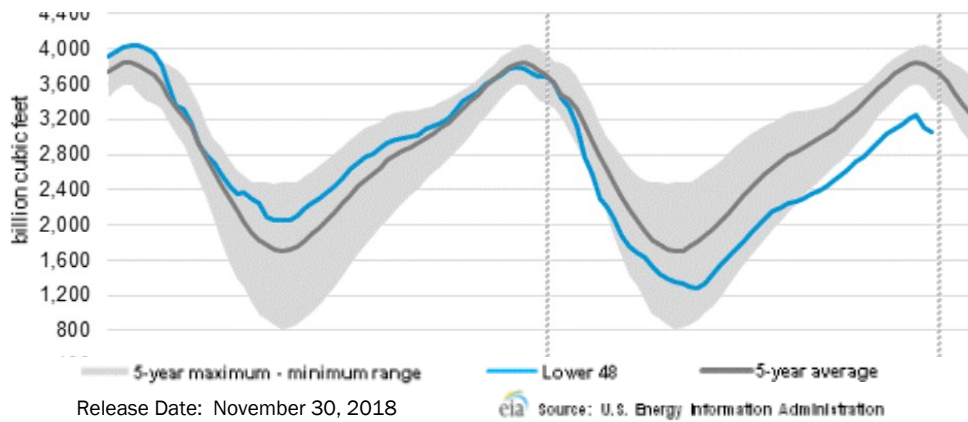
www.mansfield.energy
info@mansfieldoil.com

Phone: (800) 695-6626



NATURAL GAS NEWS

WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



Rig Count

Report Date: March 22, 2019

	Total	Change
US -	1,016	(22)
CN -	105	(106)

EIA Weekly NG Storage

Actual and Surveys for

March 29, 2019

Released March 28, 2019

Range — +15 to +50

PIRA— (34)

PointLogic — (39)

Citi Futures — (49)

EIA ACTUAL — (47)

Total Working Gas In Storage

1,107 BCF

(36) BCF (LAST WEEK)

(285) BCF (LAST YEAR)

(551) BCF (5-YR AVG)

U.S. Natural Gas Supply Gas Week 3/21 – 3/27

Average daily values (BCF/D):

Last Year (BCF/d)

Dry Production — +79.4

Total Supply — +86.5

Last Week (BCF/d)

Dry Production — +88.2

Total Supply — +93.4

[NEXT REPORT ON Apr 5]

U.S. Natural Gas Demand Gas Week 3/21 – 3/27

Average daily values (BCF/D):

Last Year (BCF/d)

Power — +23.8

Total Demand — +92.8

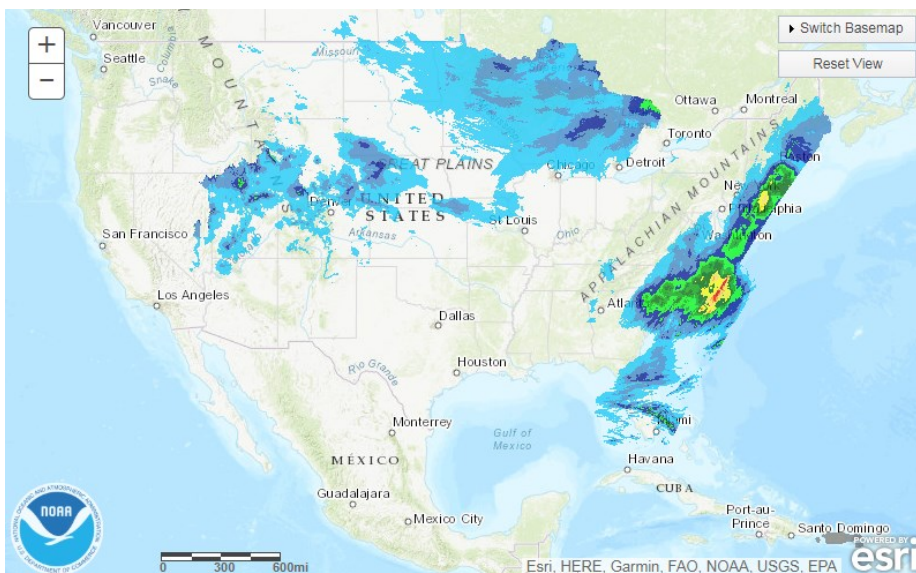
Last Week (BCF/d)

Power — +22.4

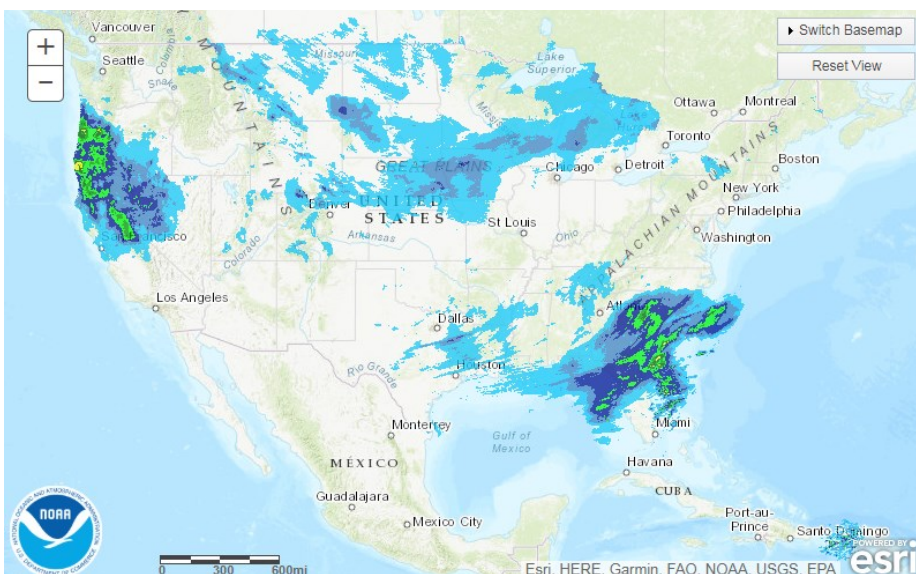
Total Demand — +91.2

[NEXT REPORT ON Apr 5]

TODAY'S PRECIPITATION



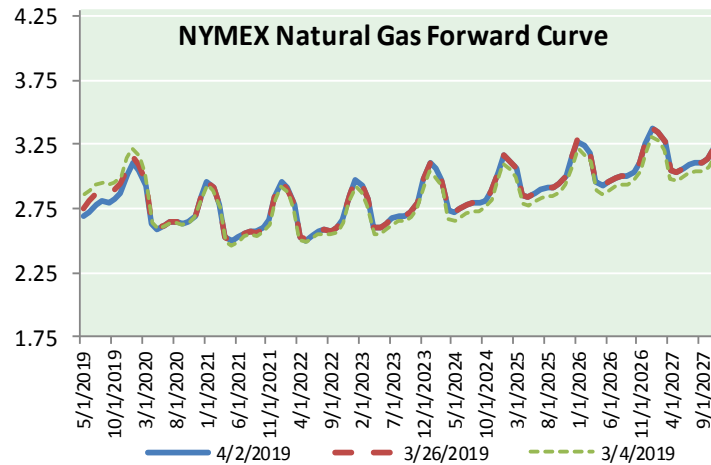
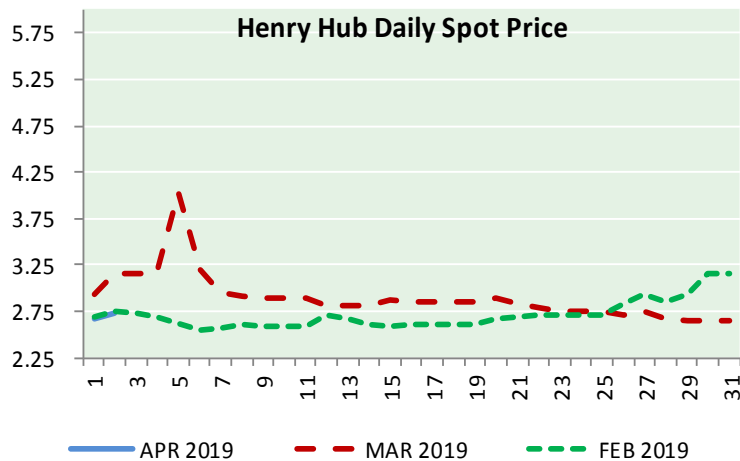
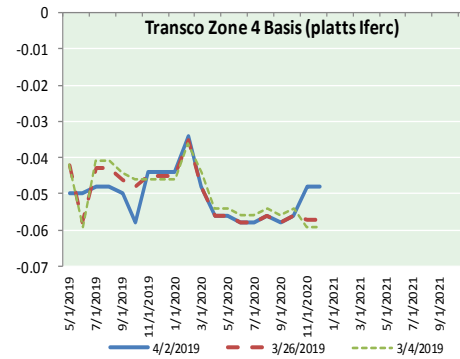
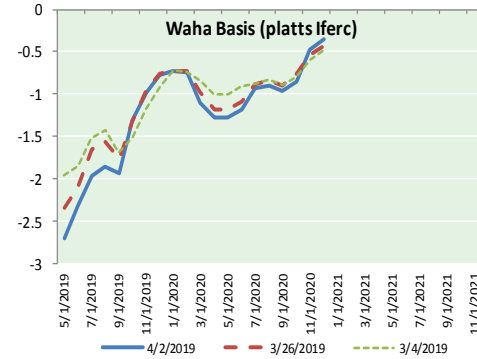
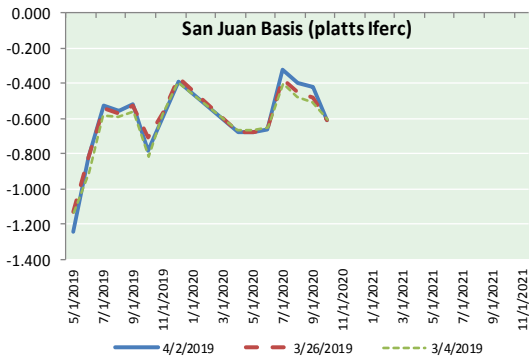
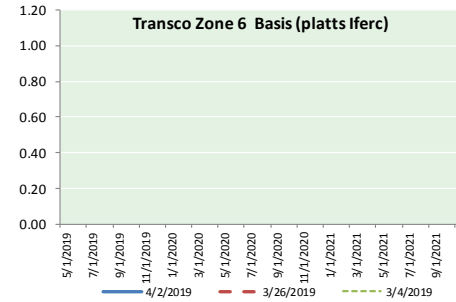
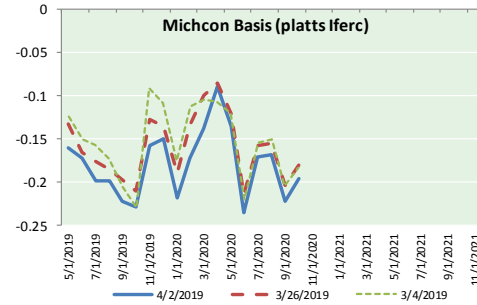
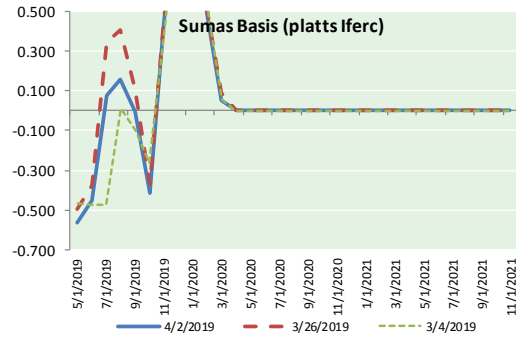
24 HOUR PRECIPITATION





NATURAL GAS NEWS

NATURAL GAS BASIS FUTURES, HENRY HUB SPOT PRICES, AND FORWARD CURVE



NYMEX WTI Delivery Month Average (\$/bbl) (Excluding Weekends and Holidays)

Month: April 2019

Day	Price	Day	Price
1	61.59	16	
2	62.58	17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	

Average (Apr) 62.0850
(through 04/02/2019)

Average (Mar) 58.1681

Average (Feb) 55.0360

CME NG Option Prices

ATM Call

Month	Strike	Close	Imp Vol
Jun-19			
Jul-19	2.700	0.102	22.5
Aug-19			
Sep-19			
Oct-19			

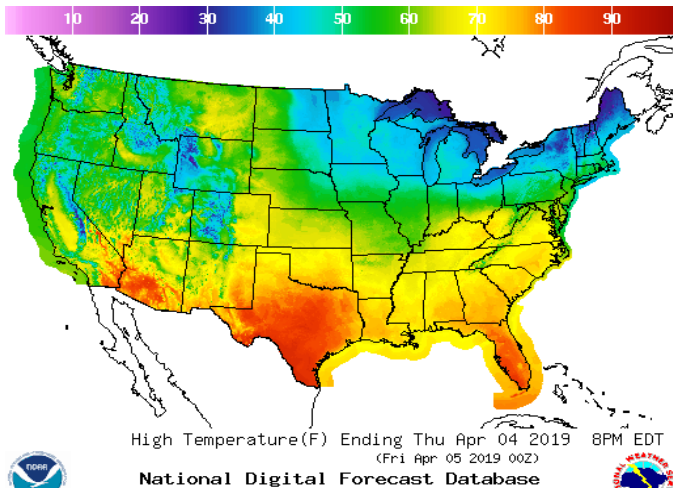
CME NG Option Prices

ATM Put

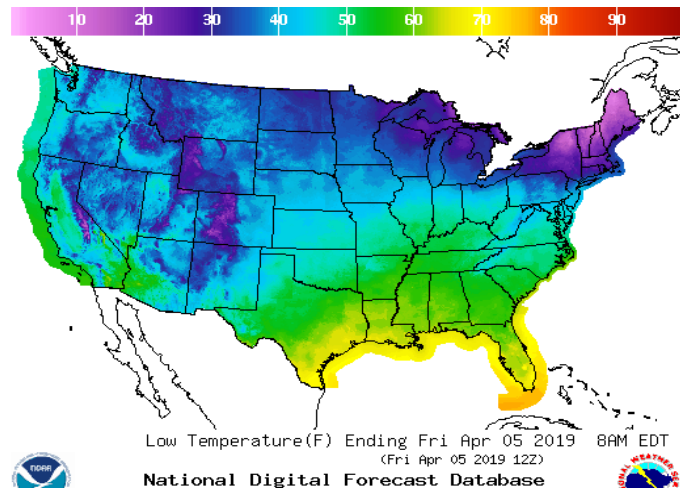
Jun-19			
Jul-19	2.700	0.081	20.6
Aug-19			
Sep-19			
Oct-19			

WEATHER – HIGH / LOW TEMPERATURE TOMORROW

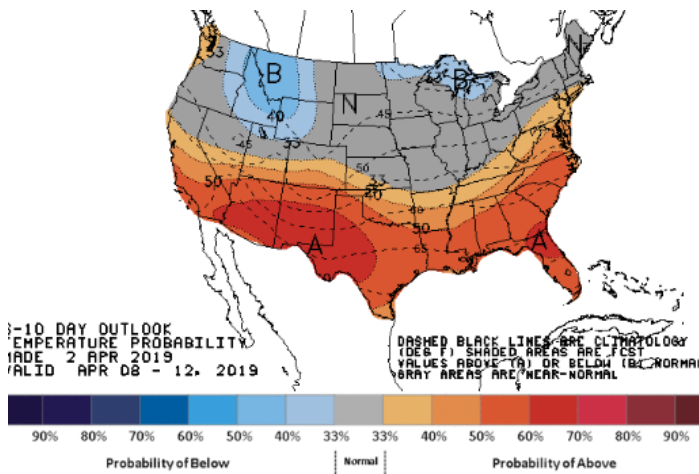
HIGH Temperature



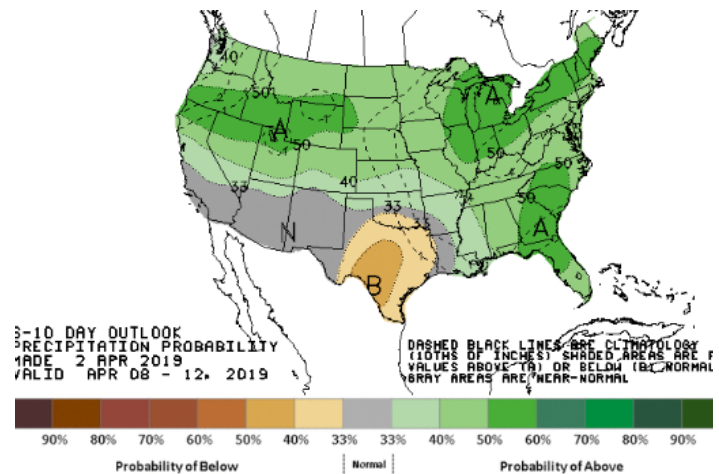
LOW Temperature



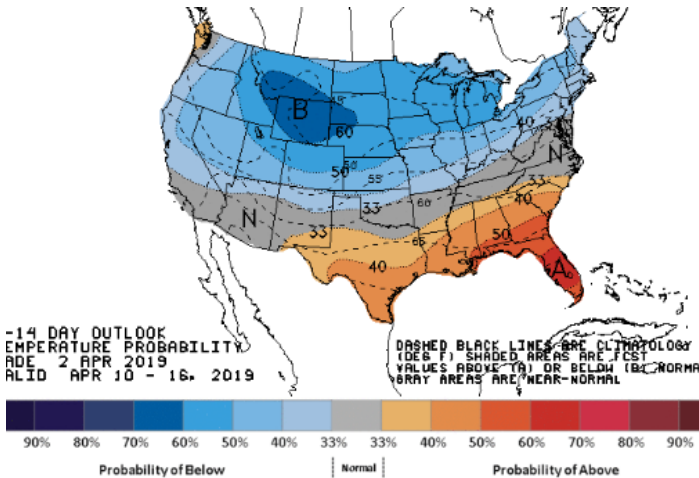
WEATHER – 6 TO 10 DAY OUTLOOK – NOAA
Temperature



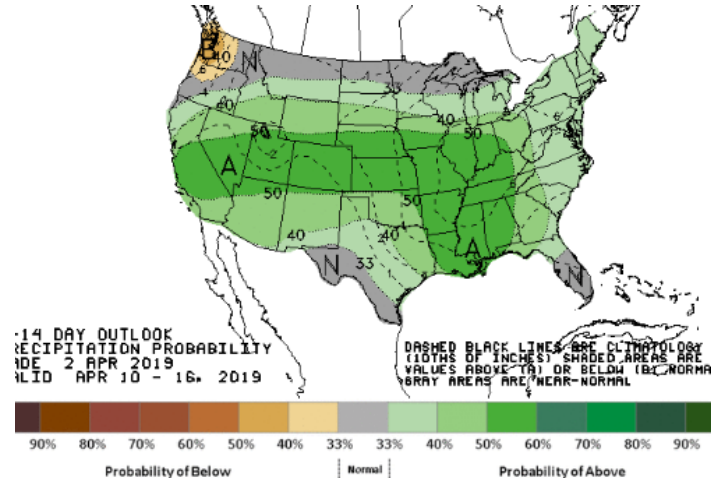
Precipitation



WEATHER – 8 TO 14 DAY OUTLOOK – NOAA
Temperature



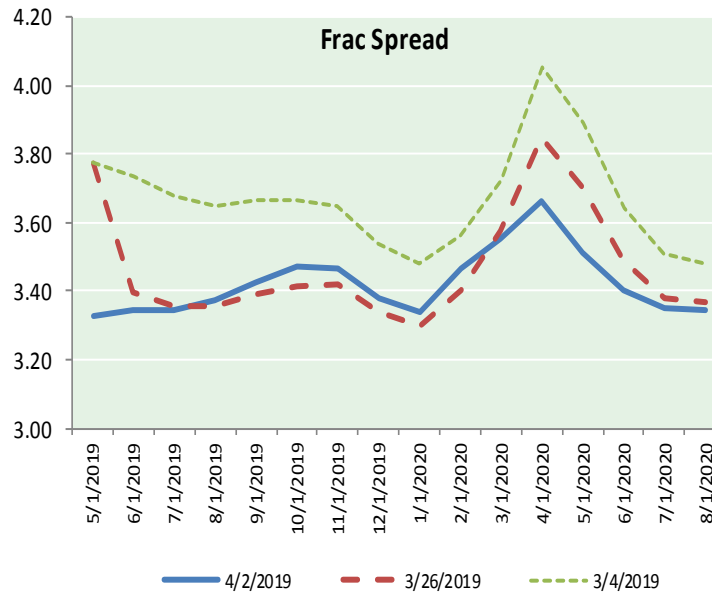
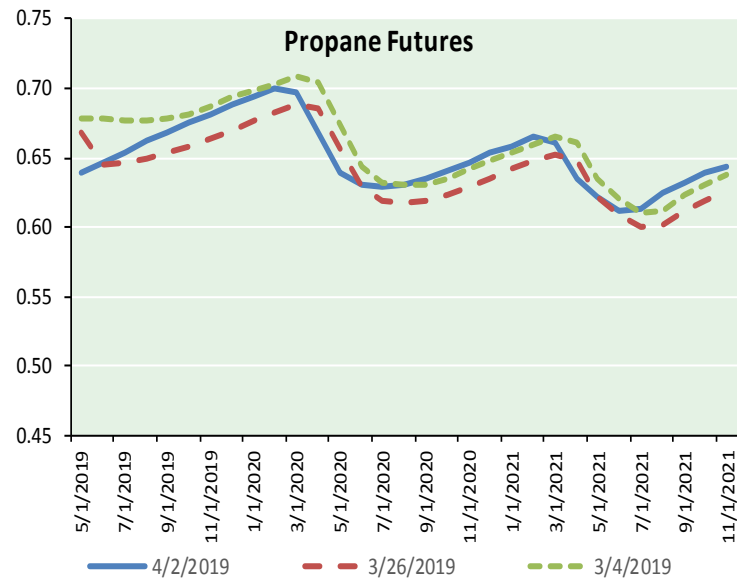
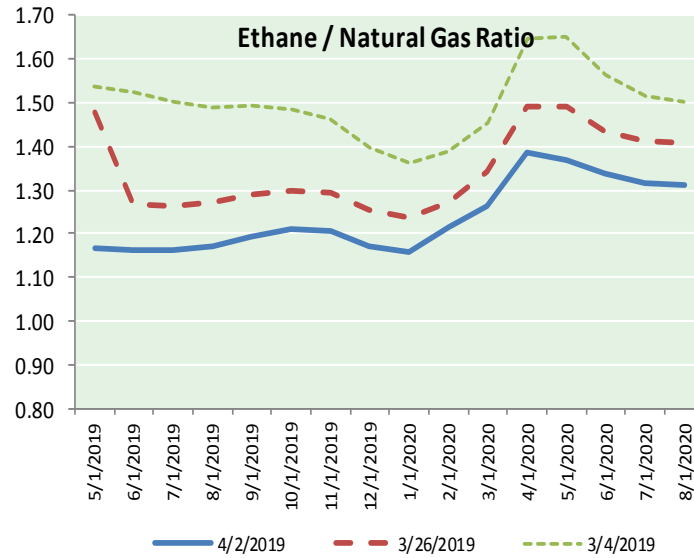
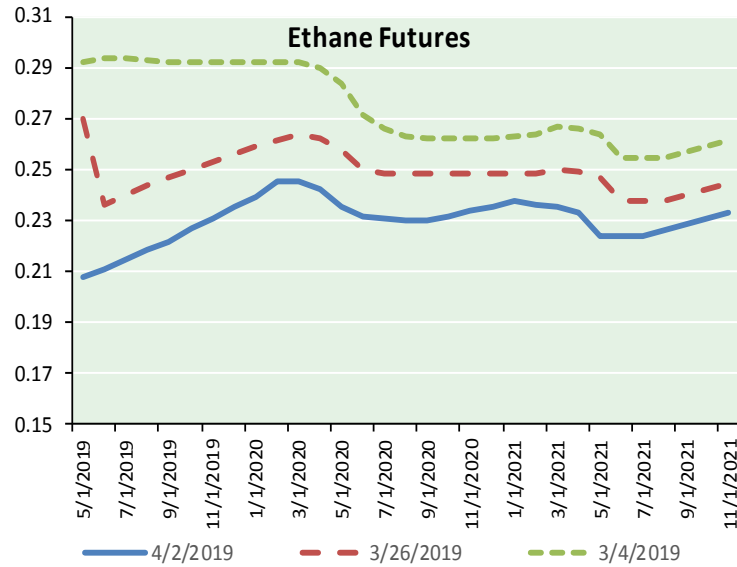
Precipitation



NATURAL GAS NEWS



ETHANE FUTURES, NG/ETHANE RATIO, PROPANE FUTURES, AND THE FRAC SPREAD



CME Future Prices

Month	Close	Change
May-19	0.208	(0.012)
Jun-19	0.211	(0.013)
Jul-19	0.214	(0.013)
Aug-19	0.218	(0.012)
Sep-19	0.222	(0.012)
Oct-19	0.227	(0.011)
Nov-19	0.231	(0.011)
Dec-19	0.235	(0.009)
Jan-20	0.239	(0.007)
Feb-20	0.246	(0.005)
Mar-20	0.246	(0.004)
Apr-20	0.242	(0.005)
1YR Strip	0.228	(0.009)

CME Future Prices

**Propane (C3)
Non-LDH— Mont Belvieu**

Month	Close	Change
May-19	0.639	(0.009)
Jun-19	0.647	(0.008)
Jul-19	0.654	(0.007)
Aug-19	0.662	(0.005)
Sep-19	0.669	(0.004)
Oct-19	0.676	(0.004)
Nov-19	0.682	(0.004)
Dec-19	0.688	(0.004)
Jan-20	0.694	(0.004)
Feb-20	0.700	(0.004)
Mar-20	0.697	(0.004)
Apr-20	0.668	(0.003)
1YR Strip	0.673	(0.005)

NATURAL GAS NEWS



Prompt WTI (CL) Crude
Daily Sentiment

BULLISH



RESISTANCE
63.02 & 63.46
SUPPORT
61.87 & 61.16

FOLLOW US ON TWITTER:



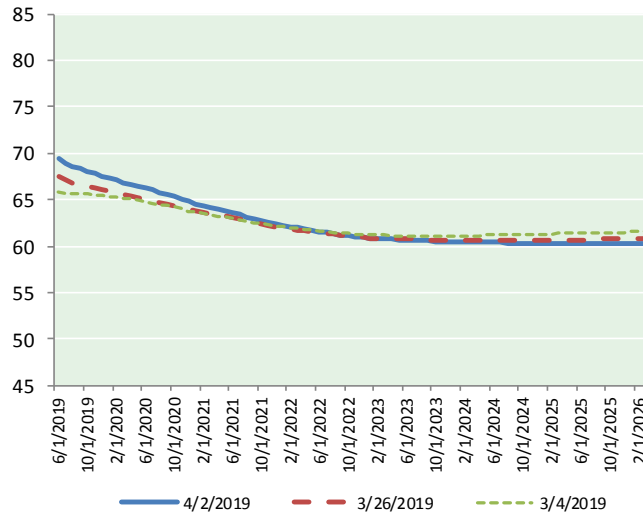
@MPG_NatGasNews

NYMEX Brent (BZ)

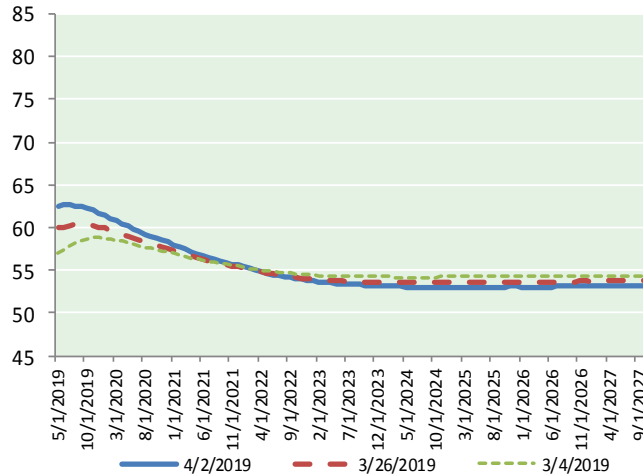
Futures

Month	Close	Change
May-19	62.58	0.99
Jun-19	62.61	0.90
Jul-19	62.60	0.80
Aug-19	62.55	0.72
Sep-19	62.45	0.67
Oct-19	62.27	0.62
Nov-19	62.04	0.56
Dec-19	61.76	0.49
Jan-20	61.45	0.42
Feb-20	61.12	0.36
Mar-20	60.78	0.31
Apr-20	60.46	0.27
May-20	60.15	0.24
Jun-20	59.88	0.23
Jul-20	59.56	0.20
Aug-20	59.27	0.17
Sep-20	59.00	0.15
Oct-20	58.74	0.12
Nov-20	58.52	0.09
Dec-20	58.32	0.06
Jan-21	58.05	0.04
Feb-21	57.76	0.01
Mar-21	57.48	(0.03)
Apr-21	57.22	(0.05)
1YR Strip	61.89	0.59
2019	62.36	0.72
5YR Strip	56.64	(0.01)

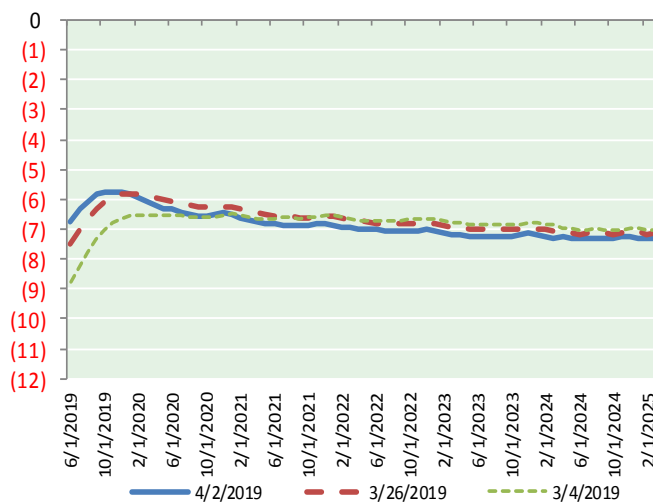
BRENT CRUDE FORWARD CURVE



WTI CRUDE FORWARD CURVE



WTI-BRENT SPREAD



FRAC Spread

Specifications

Ethane : 42% 66,500 btu/g
Propane: 28% 90,830 btu/g
Butane: 11% 102,916 btu/g
Iso-Butane: 6% 98,935 btu/g
Natural Gasoline: 13%
115,021 btu/g

Prompt NGL Futures

	May-19	Close	Change
Butane	0.763	(0.002)	
Iso-Butane	0.783	(0.017)	
Nat Gasoline	1.275	(0.003)	

NYMEX WTI (CL) Futures

Month	Close	Change
Jun-19	69.37	0.36
Jul-19	68.93	0.34
Aug-19	68.60	0.33
Sep-19	68.30	0.30
Oct-19	68.02	0.27
Nov-19	67.78	0.25
Dec-19	67.52	0.22
Jan-20	67.28	0.19
Feb-20	67.06	0.17
Mar-20	66.86	0.16
Apr-20	66.65	0.14
May-20	66.44	0.12
Jun-20	66.21	0.11
Jul-20	66.00	0.08
Aug-20	65.78	0.07
Sep-20	65.54	0.05
Oct-20	65.30	0.02
Nov-20	65.03	0.00
Dec-20	64.77	(0.02)
Jan-21	64.56	(0.04)
Feb-21	64.36	(0.06)
Mar-21	64.16	(0.08)
Apr-21	63.97	(0.09)
May-21	63.77	(0.11)
1YR Strip	67.73	0.24
2019	68.36	0.30
5YR Strip	63.25	(0.10)