

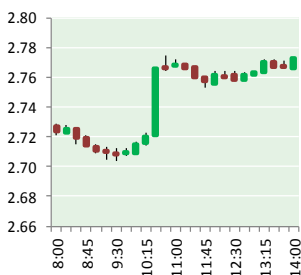
# NATURAL GAS



JULY 20, 2018

## Prior Day's NYMEX

### Aug-18 Contract (CT)



## NYMEX NG Futures

Month	Close	Change
Aug-18	2.769	0.048
Sep-18	2.736	0.047
Oct-18	2.751	0.046
Nov-18	2.797	0.042
Dec-18	2.908	0.038
Jan-19	2.992	0.038
Feb-19	2.962	0.037
Mar-19	2.872	0.036
Apr-19	2.596	0.018
May-19	2.569	0.015
Jun-19	2.601	0.014
Jul-19	2.633	0.014
Aug-19	2.640	0.015
Sep-19	2.621	0.015
Oct-19	2.637	0.014
Nov-19	2.689	0.013
Dec-19	2.818	0.014
Jan-20	2.914	0.013
Feb-20	2.878	0.012
Mar-20	2.785	0.011
Apr-20	2.495	(0.011)
May-20	2.460	(0.014)
Jun-20	2.489	(0.015)
Jul-20	2.520	(0.016)
1YR Strip	2.766	0.033
2018	2.792	0.044
5YR Strip	2.634	0.005

## IN THE NEWS

### Permian Oil And Natural Gas Production Continues To Grow —

Forbes reported: With the latest Drilling Productivity Report released from the EIA on July 16, the numbers in Texas' Permian basin - our largest oil field and our second largest natural gas field - continue to grow, 3.33 million b/d of oil and 10.7 Bcf/d of gas produced this month - with even more expected in

- Permian Oil And Natural Gas Production Continues To Grow
- Contractor who struck gas line in Sun Prairie not registered to do business in Wisconsin

August. Natural gas in the Permian comes as a byproduct of crude oil production ("associated gas"). In fact, despite accounting for 12-15% of total U.S. gas production, from May 2016 to May 2018, the Permian did not have a single gas-directed rig. Investments in the Permian have represented "\$2 of every \$10 spent on oilfield services and equipment worldwide." The wave of supply is coming at the right time for a state that gets half of its electricity from natural gas: "Texas sets new records for July electricity usage." For more on this story visit [forbes.com](http://forbes.com) or click <https://bit.ly/2JE6Juv>

### Contractor who struck gas line in Sun Prairie not registered to do business in Wisconsin—

Milwaukee Journal Sentinel reported: The contractor that cut into a 4-inch pipe carrying natural gas underneath downtown Sun Prairie on July 10 just before an explosion leveled a city block and killed a firefighter was not registered to do business in Wisconsin, according to state records. The Journal Sentinel confirmed Thursday that Michigan-based VC Tech, Inc. was hired by Kansas-based Bear Communications to help install new fiber optic cable lines in the Madison suburb of 30,000. The job was supposed to deploy a drilling process known as directional boring, which lays new cable lines underground without digging trenches, according to a city work permit obtained by Bear Communications. The company owned by Valentin Cociuba of Ypsilanti, however, is not registered to do business in Wisconsin, according to the Wisconsin Department of Financial Institutions. For more on this story visit [jsonline.com](http://jsonline.com). or click <https://bit.ly/2uCzV0a>

## 12 MONTH CANDLESTICK (WEEKLY)



## Prompt Natural Gas (NG) Daily Sentiment

BEARISH



RESISTANCE

2.80 & 2.82

SUPPORT

2.72 & 2.68

## Trading Summary

### NATURAL GAS

Futures	Close	Change
NG	2.769	0.048
Volume	363,323	52,962
Open Int.	1,525,799	13,575

### CRUDE AND GASOLINE

Futures	Close	Change
Crude	69.46	0.70
RBOB	2.0435	(0.0009)
Crude/NG	25.08	(0.19)

### METALS

Futures	Close	Change
Gold	1,222.40	

### EQUITIES

Exchange	Close	Change
DOW	24,064.50	(134.79)
S&P 500	-131.74	(11.13)

### CURRENCY

Currency	Close	Change
EUR/USD	1.1706	0.0064
USD/CND	1.2405	(0.0130)

## Contact Us



**Mansfield Energy Corp**  
 1025 Airport Pkwy  
 Gainesville, GA 30501  
  
[www.mansfield.energy](http://www.mansfield.energy)  
  
[info@mansfieldoil.com](mailto:info@mansfieldoil.com)

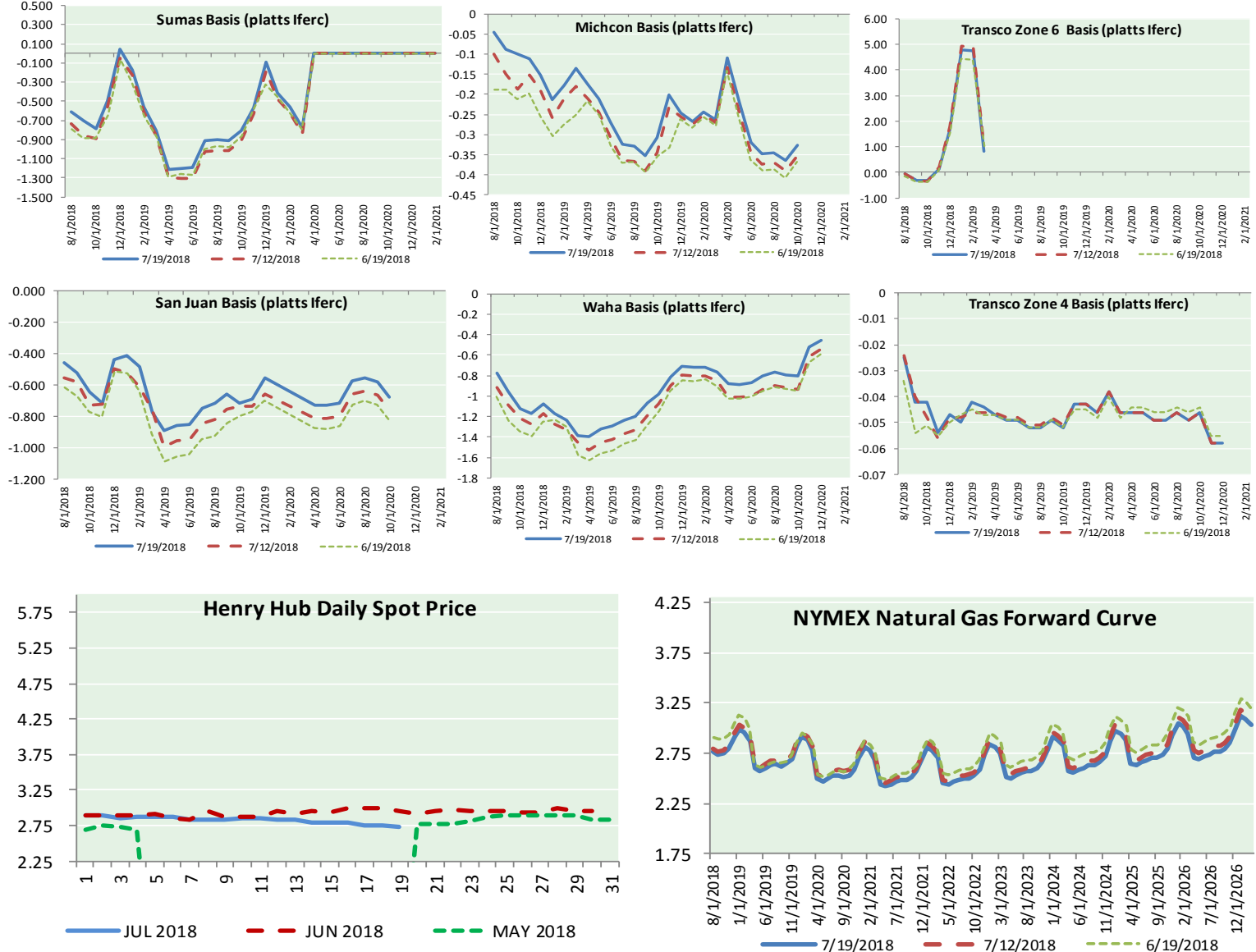
Phone: (800) 695-6626





**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: July 2018

Day	Price	Day	Price
1		16	68.06
2	73.94	17	68.08
3	74.14	18	68.76
4		19	69.46
5	72.94	20	
6	73.80	21	
7		22	
8		23	
9	73.85	24	
10	74.11	25	
11	70.38	26	
12	70.33	27	
13	71.01	28	
14		29	
15		30	
		31	

**Average (Jul)** 71.4508  
(through 07/19/2018)

**Average (Jun)** 67.3229

**Average (May)** 69.9832

**CME NG Option Prices**

**ATM Call**

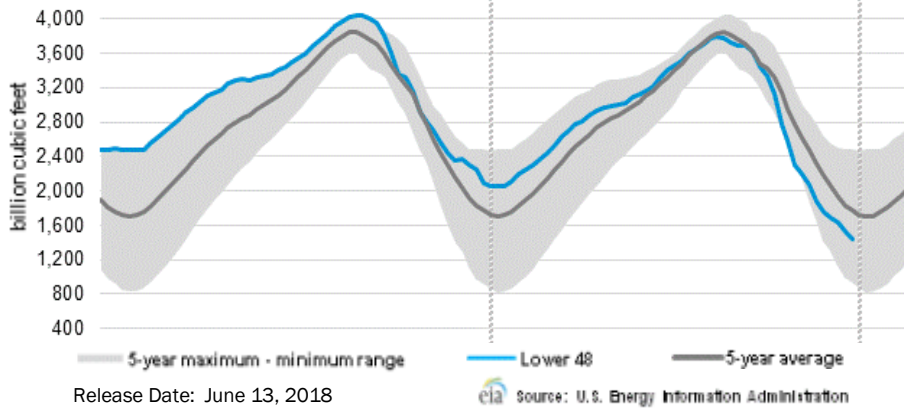
Month	Strike	Close	Imp	Vol
Sep-18				
Oct-18	2.750	0.065		20.6
Nov-18				
Dec-18				
Jan-19				

**CME NG Option Prices**

**ATM Put**

Month	Strike	Close	Imp	Vol
Sep-18				
Oct-18	2.750	0.078		18.7
Nov-18				
Dec-18				
Jan-19				

WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



Rig Count

Report Date: July 13, 2018

	Total	Change
US -	1054	+2
CN -	197	+15

EIA Weekly NG Storage Actual and Surveys for July 20, 2018

Released July 19, 2018

Range (41) to (70)

PIRA – (54)

Citi Futures – (57)

Reuters – (54)

EIA ACTUAL – 46

Total Working Gas In Storage

2,249 BCF

46 BCF (LAST WEEK)

(710) BCF (LAST YEAR)

(535) BCF (5-YR AVG)

U.S. Natural Gas Supply Gas Week 7/12 – 7/18

Average daily values (BCF/D):

Last Year (BCF/d)

Dry Production – +72.4

Total Supply – +78.5

Last Week (BCF/d)

Dry Production – +81.0

Total Supply – +87.1

[NEXT REPORT ON Jul 27]

U.S. Natural Gas Demand Gas Week 7/12 – /18

Average daily values (BCF/D):

Last Year (BCF/d)

Power – +35.0

Total Demand – +73.6

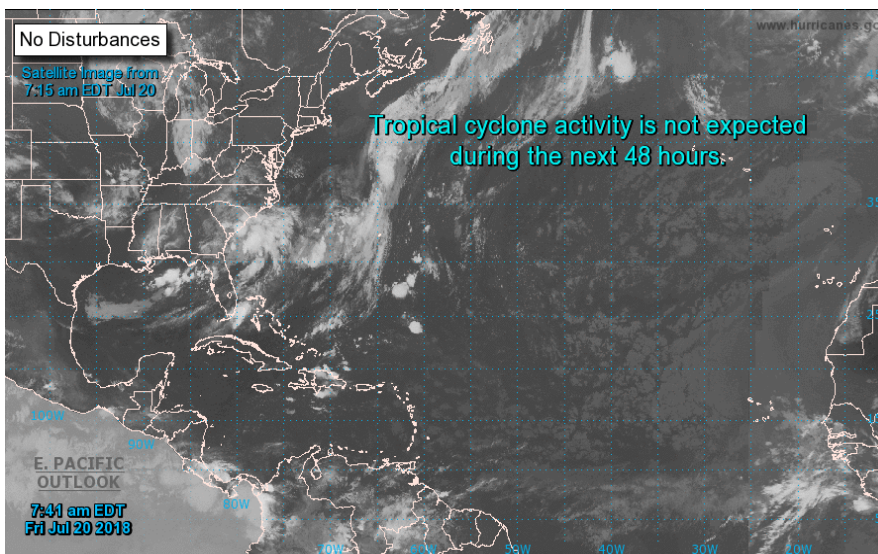
Last Week (BCF/d)

Power – +35.7

Total Demand – +77.1

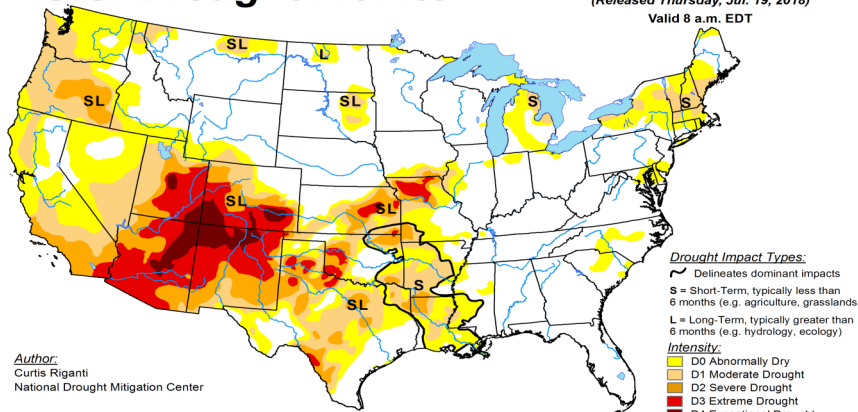
[NEXT REPORT ON Jul 27]

TROPICAL STORM ACTIVITY– ATLANTIC

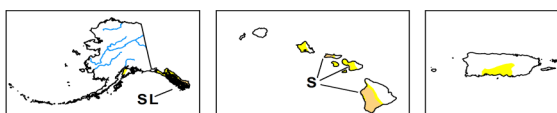


U.S. Drought Monitor

July 17, 2018  
(Released Thursday, Jul. 19, 2018)  
Valid 8 a.m. EDT



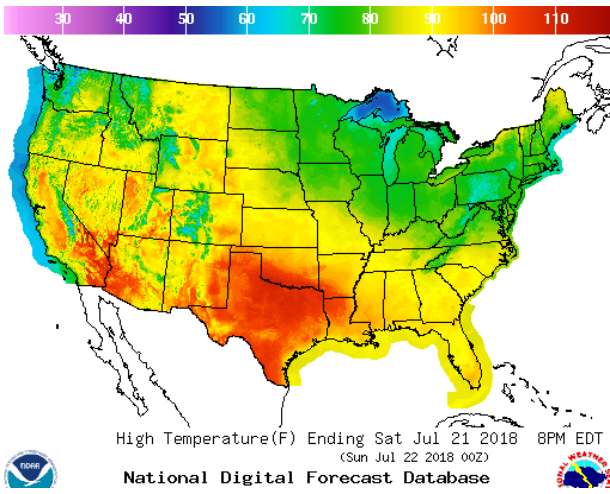
Author:  
Curtis Riganti  
National Drought Mitigation Center



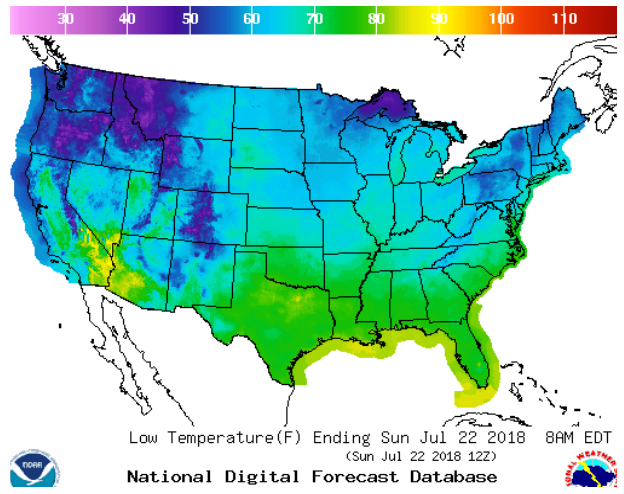
USDA, NDMC, NOAA logos  
<http://droughtmonitor.unl.edu/>

WEATHER – HIGH / LOW TEMPERATURE SATURDAY

HIGH Temperature

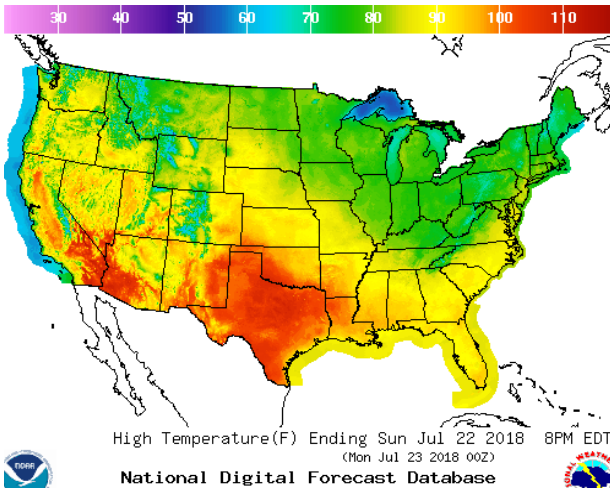


LOW Temperature

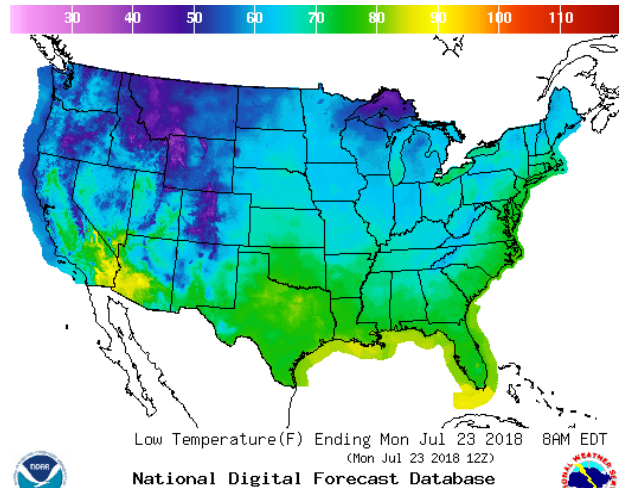


WEATHER – HIGH / LOW TEMPERATURE SUNDAY

HIGH Temperature

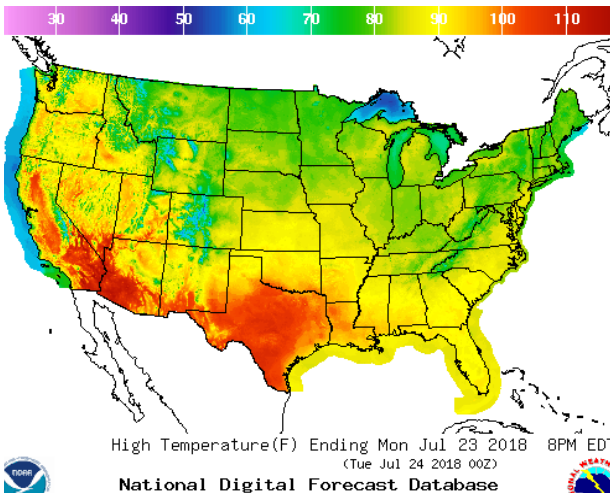


LOW Temperature

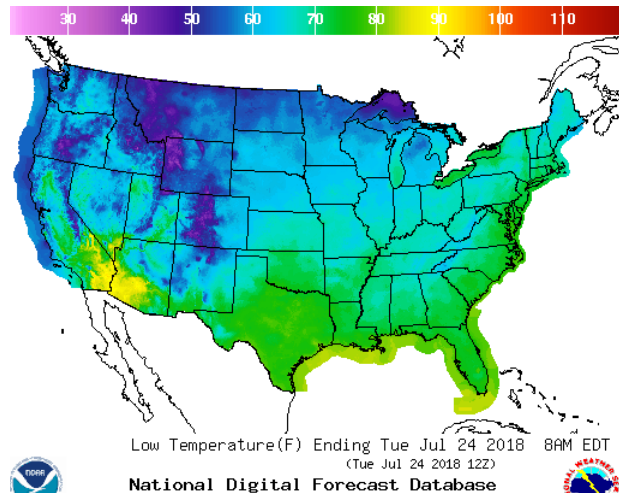


WEATHER – HIGH / LOW TEMPERATURE MONDAY

HIGH Temperature

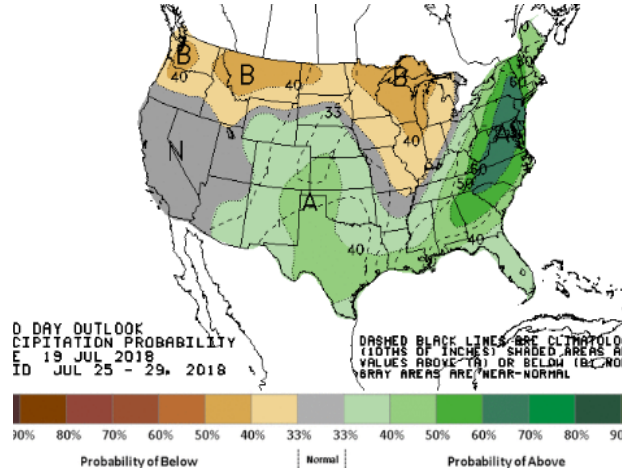
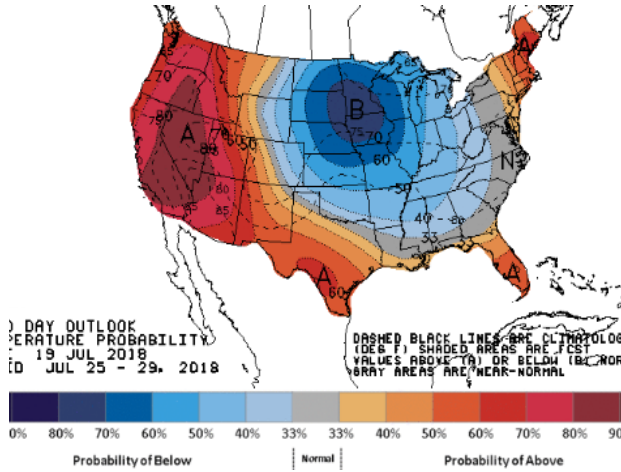


LOW Temperature



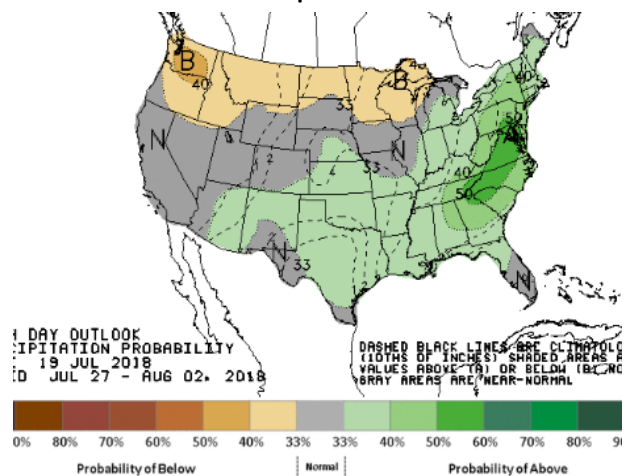
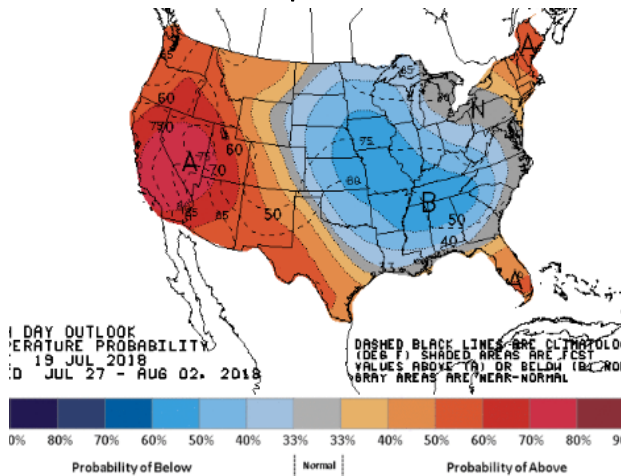
WEATHER — 6 TO 10 DAY OUTLOOK — NOAA  
Temperature

Precipitation



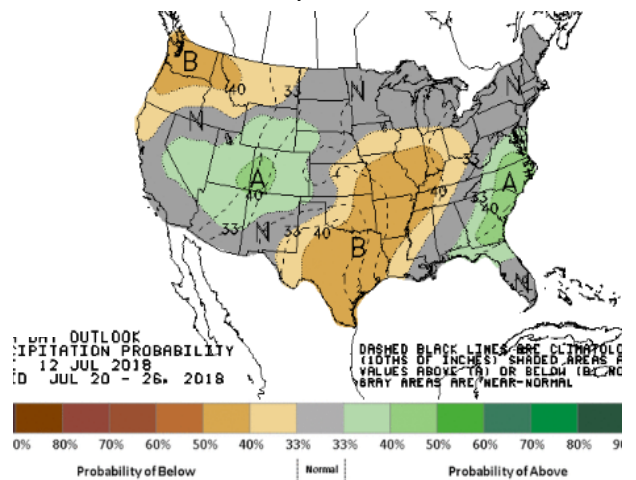
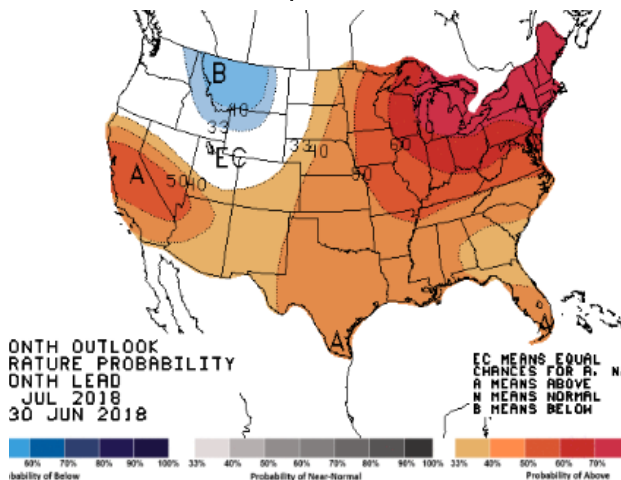
WEATHER — 8 TO 14 DAY OUTLOOK — NOAA  
Temperature

Precipitation



WEATHER — 30 DAY OUTLOOK — NOAA  
Temperature

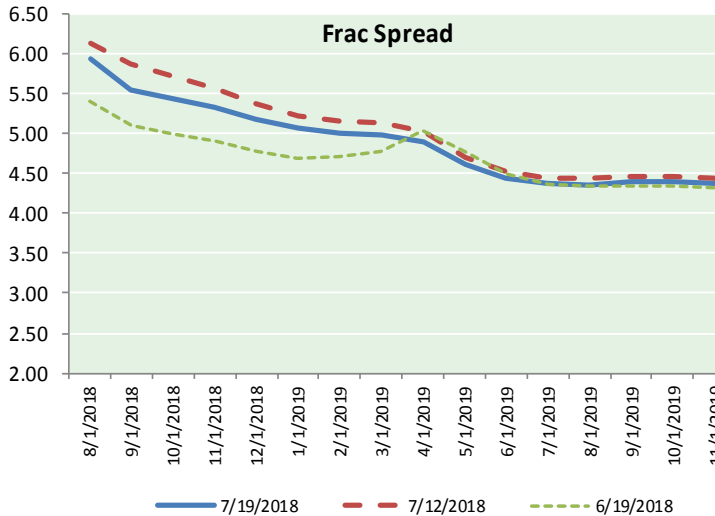
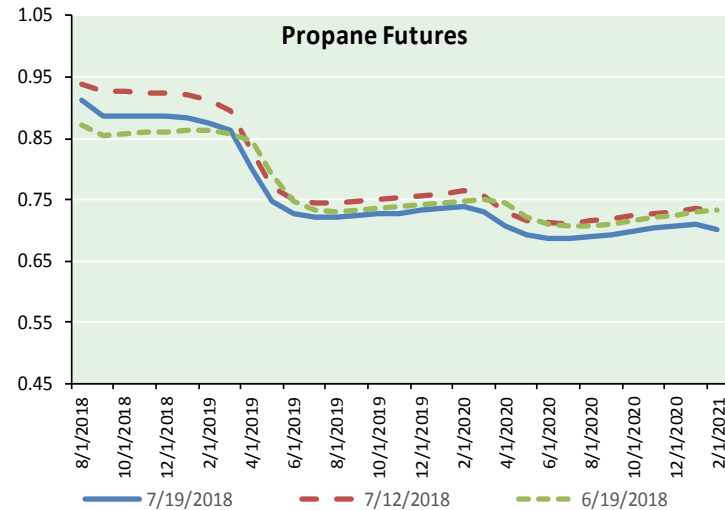
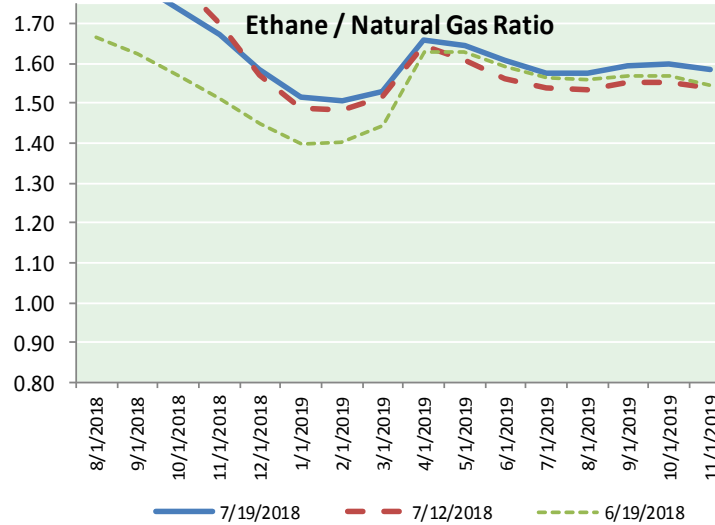
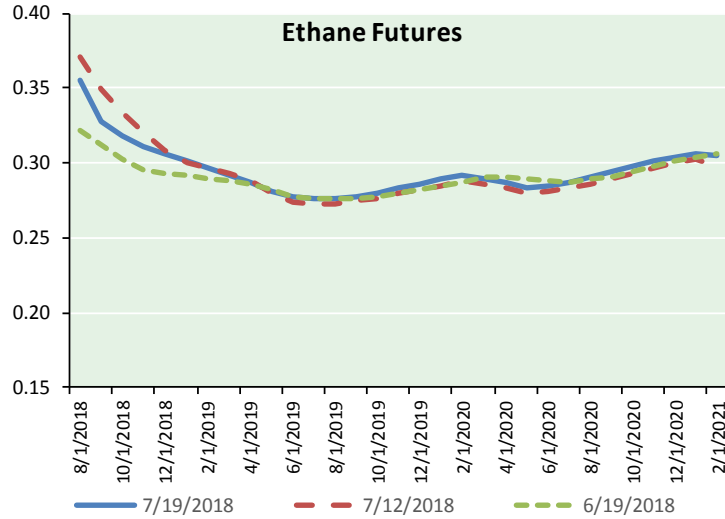
Precipitation



**NATURAL GAS NEWS**



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



**CME Future Prices**

**Ethane (C2)**

**Non-LDH— Mont Belvieu**

Month	Close	Change
Aug-18	0.356	(0.011)
Sep-18	0.328	(0.015)
Oct-18	0.318	(0.013)
Nov-18	0.311	(0.009)
Dec-18	0.306	(0.007)
Jan-19	0.302	(0.004)
Feb-19	0.297	(0.004)
Mar-19	0.292	(0.005)
Apr-19	0.287	(0.004)
May-19	0.281	(0.004)
Jun-19	0.278	(0.004)
Jul-19	0.276	(0.005)

1YR Strip 0.303 (0.007)

**CME Future Prices**

**Propane (C3)**

**Non-LDH— Mont Belvieu**

Month	Close	Change
Aug-18	0.913	(0.001)
Sep-18	0.888	0.000
Oct-18	0.886	0.000
Nov-18	0.886	(0.001)
Dec-18	0.885	(0.001)
Jan-19	0.884	0.000
Feb-19	0.875	(0.002)
Mar-19	0.862	0.000
Apr-19	0.800	0.000
May-19	0.747	0.000
Jun-19	0.728	0.000
Jul-19	0.721	(0.001)

1YR Strip 0.840 (0.000)

**NATURAL GAS NEWS**



**Prompt WTI (CL) Crude  
Daily Sentiment**

**BULLISH**



RESISTANCE  
70.49 & 71.51  
SUPPORT  
68.12 & 66.77

**FOLLOW US ON TWITTER:**



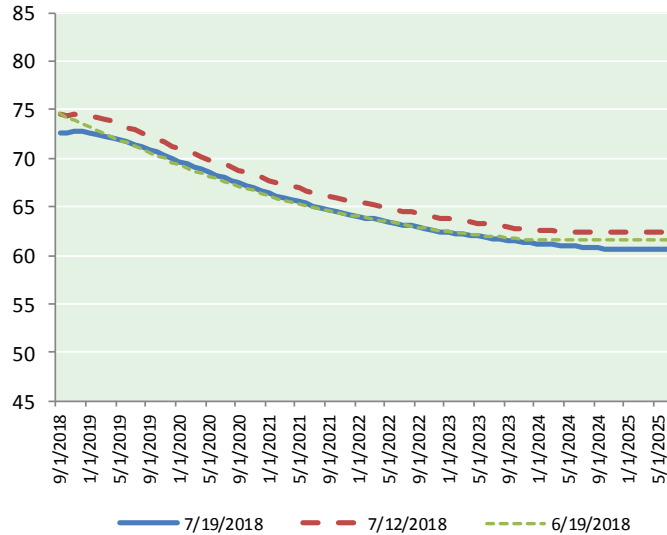
@MPG\_NatGasNews

**NYMEX Brent (BZ)**

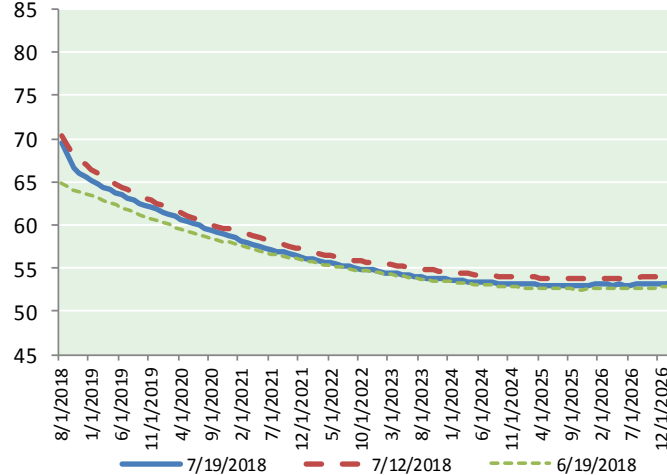
**Futures**

Month	Close	Change
Sep-18	72.58	(0.32)
Oct-18	72.67	(0.32)
Nov-18	72.74	(0.27)
Dec-18	72.73	(0.24)
Jan-19	72.65	(0.21)
Feb-19	72.50	(0.18)
Mar-19	72.32	(0.16)
Apr-19	72.13	(0.15)
May-19	71.90	(0.14)
Jun-19	71.64	(0.13)
Jul-19	71.40	(0.13)
Aug-19	71.15	(0.12)
Sep-19	70.88	(0.11)
Oct-19	70.58	(0.11)
Nov-19	70.31	(0.11)
Dec-19	69.99	(0.11)
Jan-20	69.69	(0.12)
Feb-20	69.42	(0.12)
Mar-20	69.12	(0.12)
Apr-20	68.82	(0.13)
May-20	68.55	(0.13)
Jun-20	68.28	(0.13)
Jul-20	68.00	(0.13)
Aug-20	67.72	(0.13)
1YR Strip	72.20	(0.20)
2018	72.68	(0.29)
5YR Strip	66.63	(0.15)

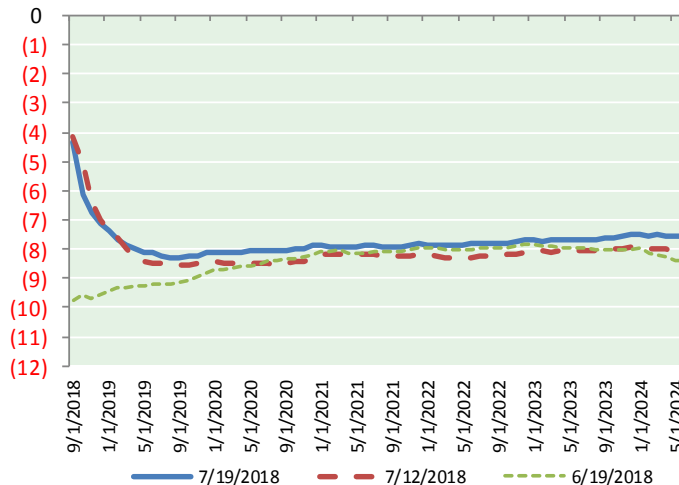
**BRENT CRUDE FORWARD CURVE**



**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**

**(\$/gallon)**

Aug-18	Close	Change
Butane	1.160	0.001
Iso-Butane	1.174	0.001
Nat Gasoline	1.494	(0.001)

**NYMEX WTI (CL) Futures**

Month	Close	Change
Aug-18	69.46	0.70
Sep-18	68.24	0.49
Oct-18	66.53	0.15
Nov-18	65.99	0.10
Dec-18	65.60	0.07
Jan-19	65.26	0.07
Feb-19	64.84	0.08
Mar-19	64.44	0.08
Apr-19	64.11	0.08
May-19	63.80	0.09
Jun-19	63.50	0.08
Jul-19	63.17	0.09
Aug-19	62.87	0.10
Sep-19	62.59	0.10
Oct-19	62.33	0.11
Nov-19	62.07	0.11
Dec-19	61.87	0.11
Jan-20	61.56	0.12
Feb-20	61.28	0.13
Mar-20	60.99	0.12
Apr-20	60.72	0.12
May-20	60.47	0.12
Jun-20	60.22	0.13
Jul-20	59.93	0.13
1YR Strip	65.41	0.17
2018	67.16	0.30
5YR Strip	59.01	0.10