

# NATURAL GAS



NEWS

JULY 28, 2017

## Prior Day's NYMEX Sep-17 Contract (CT)



Aug-17 Settlement — \$2.969

### NYMEX NG Futures

Month	Close	Change
Aug-17	2.969	0.045
Sep-17	2.967	0.053
Oct-17	3.003	0.051
Nov-17	3.082	0.050
Dec-17	3.231	0.048
Jan-18	3.320	0.045
Feb-18	3.305	0.043
Mar-18	3.246	0.041
Apr-18	2.857	0.019
May-18	2.819	0.016
Jun-18	2.842	0.015
Jul-18	2.866	0.014
Aug-18	2.871	0.014
Sep-18	2.850	0.014
Oct-18	2.870	0.014
Nov-18	2.918	0.014
Dec-18	3.045	0.010
Jan-19	3.131	0.010
Feb-19	3.103	0.009
Mar-19	3.034	0.008
Apr-19	2.673	0.005
May-19	2.637	0.002
Jun-19	2.656	0.001
Jul-19	2.679	0.000
1YR Strip	3.042	0.037
2017	3.050	0.049
5YR Strip	2.839	0.008

## IN THE NEWS

PSE&G Proposes Five-Year Program to Continue Natural Gas Infrastructure Upgrades — Benzinga reports: Public Service Electric and Gas Company (PSE&G), New Jersey's largest utility, to-

- PSE&G Proposes Five-Year Program to Continue Natural Gas Infrastructure Upgrades
- U.S. natural gas futures spike higher after weekly storage data

day unveiled a proposal for the second phase of its natural gas infrastructure modernization program. If approved by the New Jersey Board of Public Utilities (BPU), the program will enable PSE&G to continue to accelerate the replacement of its aging cast-iron and unprotected steel gas pipes – installing 1,250 miles of new gas mains over a five-year period. The proposed cost is about \$540 million a year, or \$2.7 billion in total. PSE&G has just under 4,000 miles of cast-iron gas pipes, which is more than any other utility in the nation. At the pace proposed today, the utility can replace in 20 years its cast-iron and unprotected steel pipes with new, modern plastic pipes. Benefits of the work include improved safety and reliability of gas service, reduction in methane emissions and creation of jobs. The upgraded lines will operate on elevated pressure to support the expanded use of high-efficiency appliances, improving customer satisfaction, and reducing customer's energy bills and emissions through improved efficiency. For more visit [benzinga.com](http://benzinga.com) or click <http://bit.ly/2uCWpJX>

### U.S. natural gas futures spike higher after weekly storage data

– Investing.com reports: U.S. natural gas futures rose to the highest levels of the session in North American trade on Thursday, after data showed that domestic supplies in storage rose less than anticipated last week. The U.S. Energy Information Administration said in its weekly report that natural gas storage in the U.S. rose by 17 billion cubic feet in the week ended July 21, below forecasts for a build of 24 billion. For more visit [investing.com](http://investing.com) or click the following link <http://bit.ly/2vNhPYf>

## 12 MONTH CANDLESTICK (WEEKLY)



## Prompt Natural Gas (NG) Daily Sentiment BEARISH



RESISTANCE  
3.01 & 3.04  
SUPPORT  
2.91 & 2.86

## Trading Summary

### NATURAL GAS

Futures	Close	Change
NG	2.969	0.045
Volume	218,043	(937)
Open Int.	1,053,330	5,123

### CRUDE AND GASOLINE

Futures	Close	Change
Crude	49.04	0.29
RBOB	1.6446	0.0273
Crude/NG	16.53	(0.20)

### METALS

Futures	Close	Change
Gold	1,260.00	(2.10)

### EQUITIES

Exchange	Close	Change
DOW	21,796.55	85.54
S&P 500	2,294.62	(183.21)

### CURRENCY

Currency	Close	Change
EUR/USD	1.1715	(0.0022)
USD/CND	1.2538	(0.0021)

## Contact Us



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[info@mansfieldoil.com](mailto:info@mansfieldoil.com)

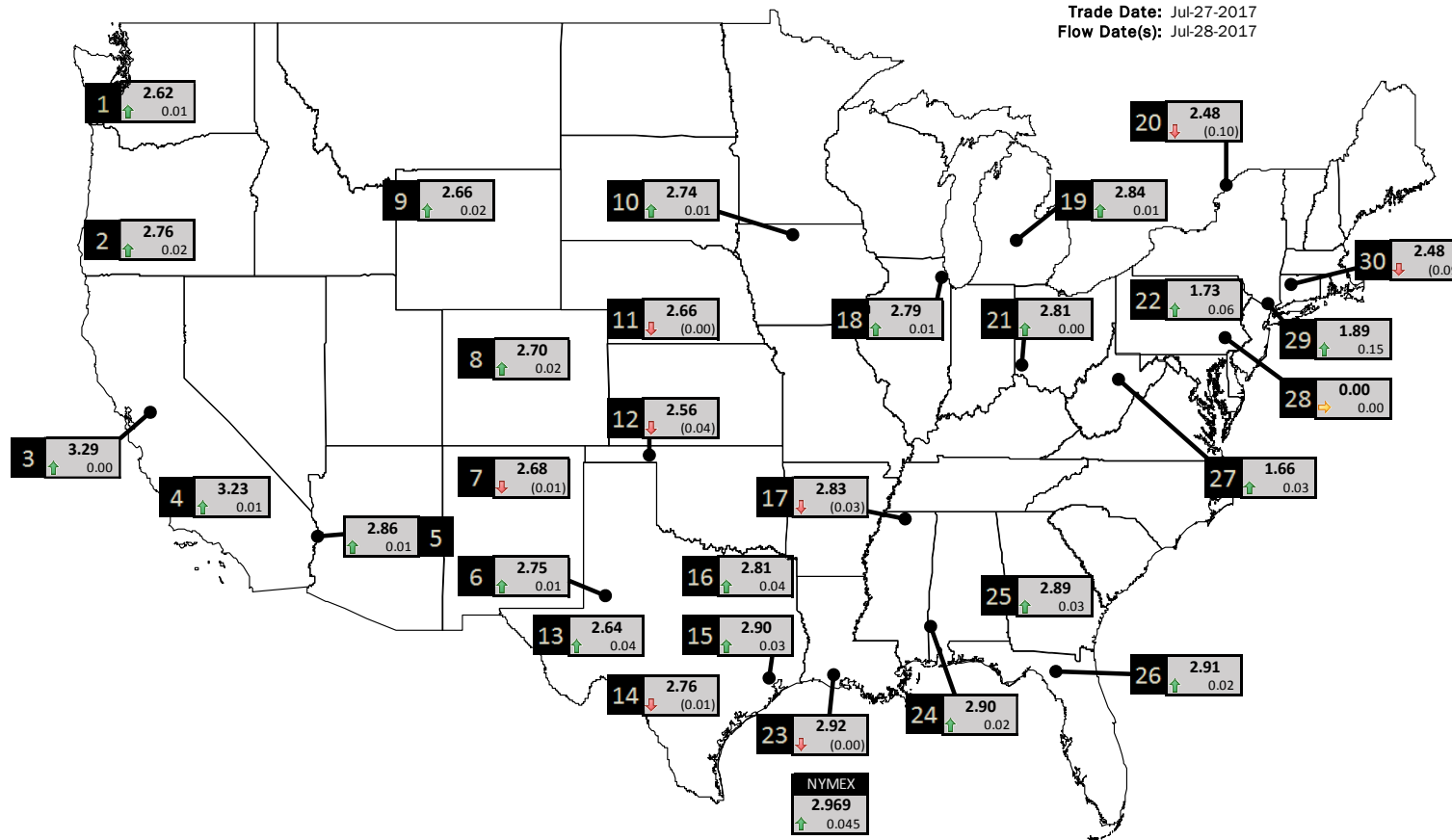
Phone: (800) 695-6626



# NATURAL GAS NEWS

## PHYSICAL SPOT NATURAL GAS PRICE MAP

Trade Date: Jul-27-2017  
Flow Date(s): Jul-28-2017



ID	DAILY INDEX	PRICE	CHANGE
1	Stanfield	2.62	0.01
2	Malin	2.76	0.02
3	PG&E - Citygate	3.29	0.00
4	Socal-Citygate	3.23	0.01
5	SoCal Border	2.86	0.01
6	Waha	2.75	0.01
7	EPSJ Blanco Pool	2.68	(0.01)
8	Opal Plant Tailgate	2.70	0.02
9	NWP-Wyoming	2.66	0.02
10	Ventura	2.74	0.01

ID	DAILY INDEX	PRICE	CHANGE
11	NGPL-Midcont Pool	2.66	(0.00)
12	Panhandle	2.56	(0.04)
13	EP-Permian	2.64	0.04
14	TGP-ZO	2.76	(0.01)
15	Houston Ship Channel	2.90	0.03
16	NGPL-TXOK	2.81	0.04
17	TETCO-M1 30	2.83	(0.03)
18	Chicago Citygates	2.79	0.01
19	Michcon	2.84	0.01
20	Iroquois (into)	2.48	(0.10)

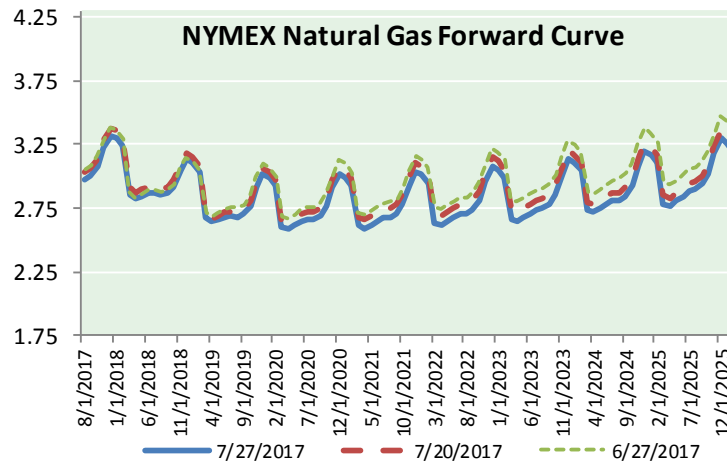
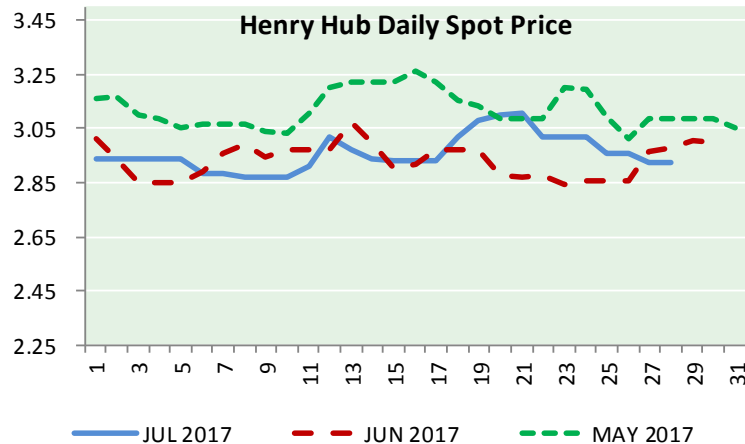
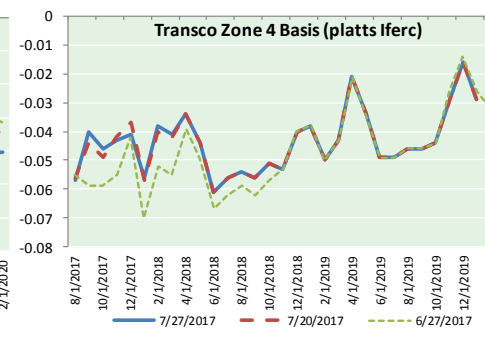
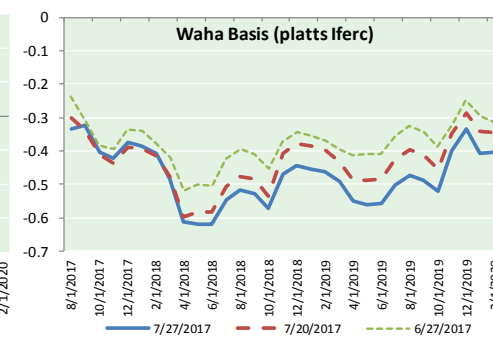
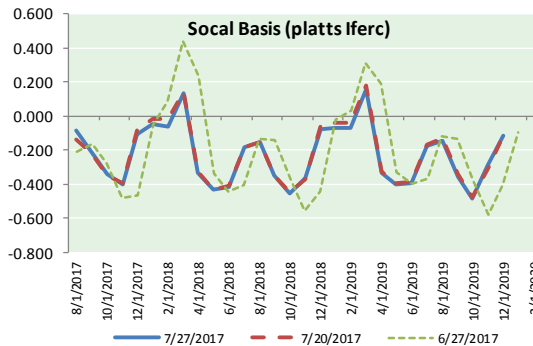
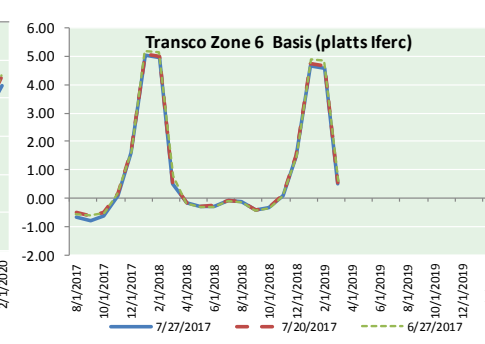
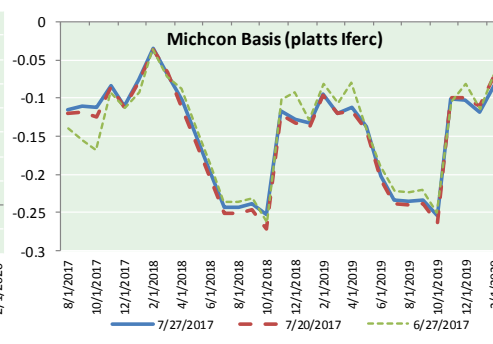
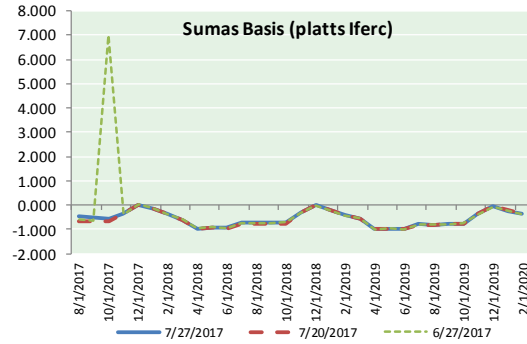
ID	DAILY INDEX	PRICE	CHANGE
21	REX E-ANR	2.81	0.00
22	Leidy-Transco	1.73	0.06
23	Henry	2.92	(0.00)
24	Transco-85	2.90	0.02
25	Sonat-ZO South	2.89	0.03
26	FGT-Z3	2.91	0.02
27	Dominion-South	1.66	0.03
28	Transco-Z6 (non-NY)	0.00	0.00
29	Transco-Z6 (NY)	1.89	0.15
30	Iroquois-Z2	2.48	(0.09)

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



CME NG Option Prices

ATM Call

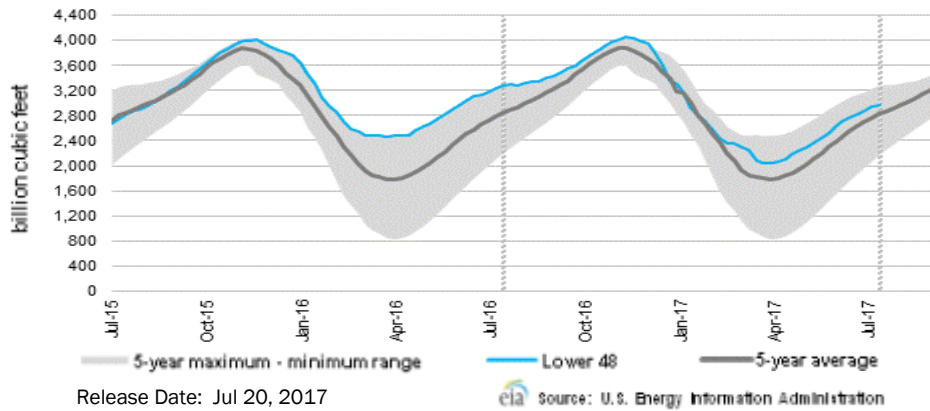
Month	Strike	Close	Imp Vol
Sep-17	2.950	0.112	30.0
Oct-17	3.000	0.158	31.9
Nov-17	3.100	0.188	31.9
Dec-17	3.250	0.243	33.7
Jan-18	3.300	0.338	38.4
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			
Jan-19			

CME NG Option Prices

ATM Put

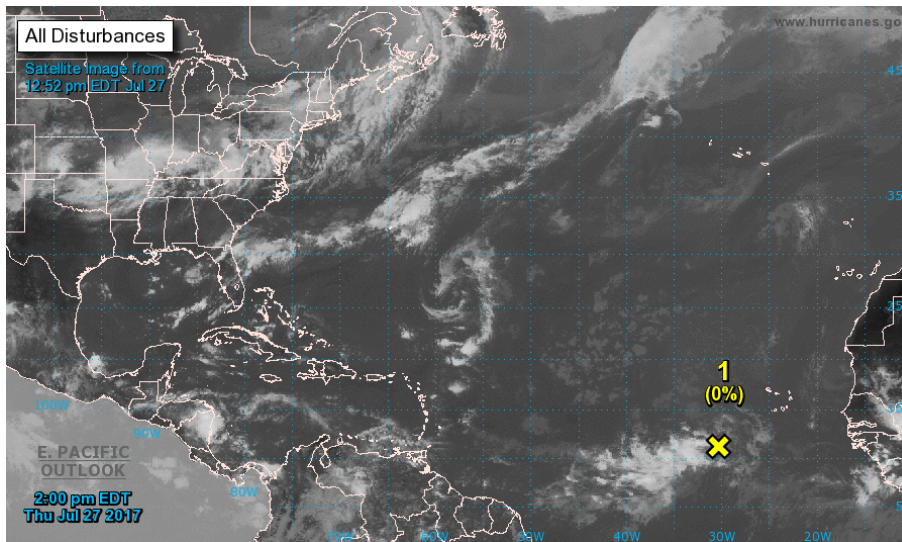
Month	Strike	Close	Imp Vol
Sep-17	2.950	0.096	30.0
Oct-17	3.000	0.154	31.9
Nov-17	3.100		
Dec-17	3.250	0.257	32.8
Jan-18	3.300	0.311	37.5
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			
Jan-19			

WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



Release Date: Jul 20, 2017

TROPICAL STORM ACTIVITY— ATLANTIC



For the North Atlantic...Caribbean Sea and the Gulf of Mexico:

1. Disorganized cloudiness and showers extending from the Cabo Verde Islands southwestward across the Atlantic are primarily associated with a tropical wave. Slow development is possible over the next several days while the system moves westward or west-northwestward at 5 to 10 mph.

\* Formation chance through 48 hours...low...near 0 percent.

\* Formation chance through 5 days...low...30 percent.

Forecaster Avila

Rig Count

Report Date: July 21, 2017

	Total	Change
US -	950	(2)
CN -	206	+15

EIA Weekly NG Storage Actual and Surveys for July 21, 2017

Released July 26, 2017

- PIRA — +21
- Citi — +25
- Reuters — +25

EIA ACTUAL — +24

Total Working Gas In Storage

**2,990 BCF**

- +17 BCF (LAST WEEK)
- (302) BCF (LAST YEAR)
- +111 BCF (5-YR AVG)

U.S. Natural Gas Supply Gas Week 7/20 - 7/26

Average daily values (BCF/D):

Last Year (BCF/d)

Dry Production — +79.3

Total Supply — +78.2

Last Week (BCF/d)

Dry Production — +72.1

Total Supply — +78.3

[NEXT REPORT ON AUG 3]

U.S. Natural Gas Demand Gas Week 7/20 - 7/26

Average daily values (BCF/D):

Last Year (BCF/d)

Power — +40.3

Total Demand — +77.4

Last Week (BCF/d)

Power — +35.7

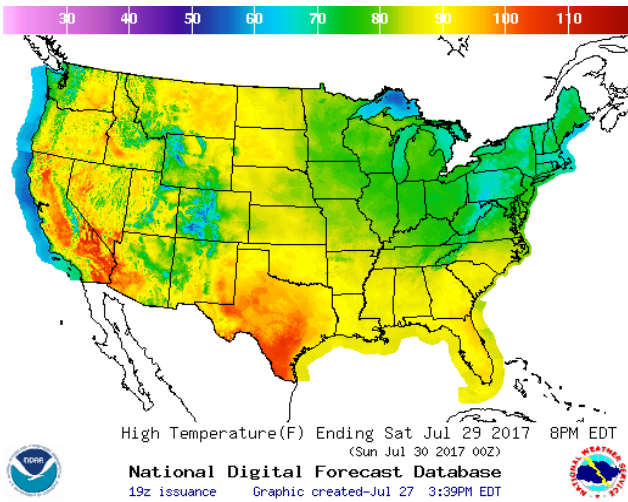
Total Demand — +74.1

[NEXT REPORT ON AUG 3]

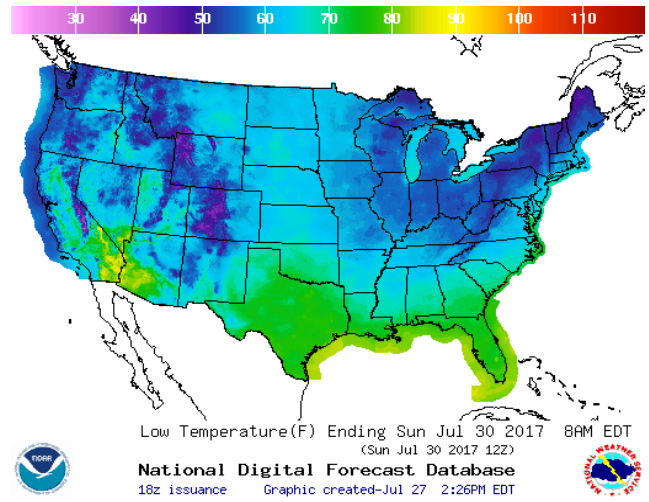


WEATHER – HIGH / LOW TEMPERATURE SATURDAY

HIGH Temperature

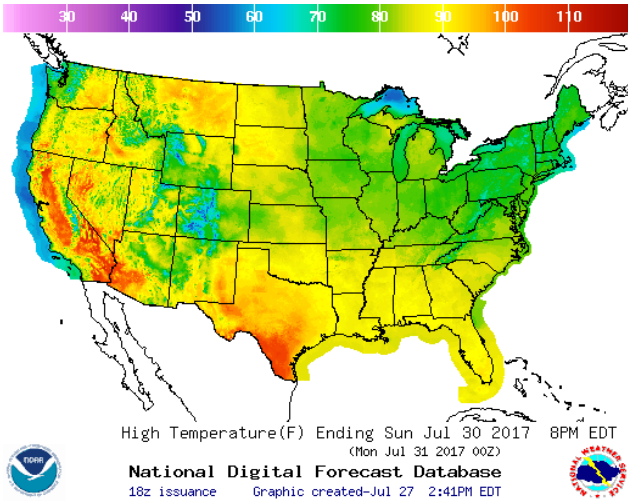


LOW Temperature

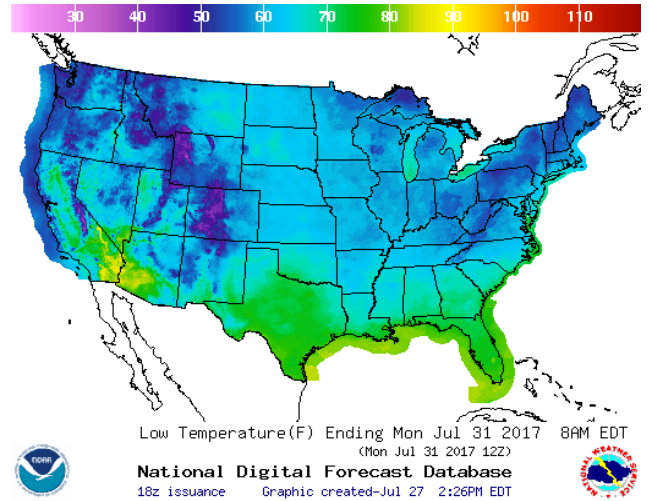


WEATHER – HIGH / LOW TEMPERATURE SUNDAY

HIGH Temperature

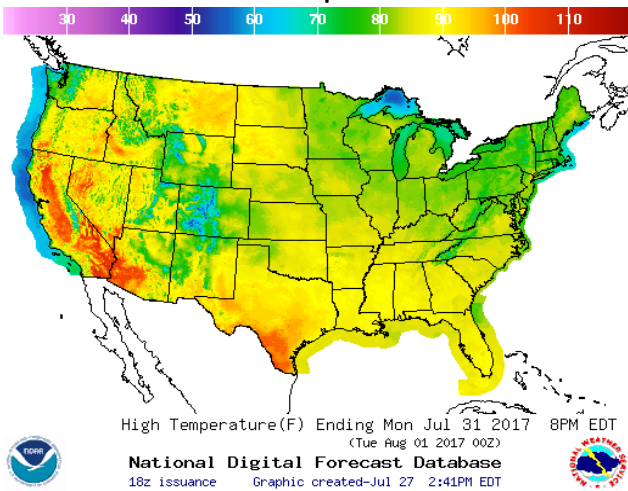


LOW Temperature

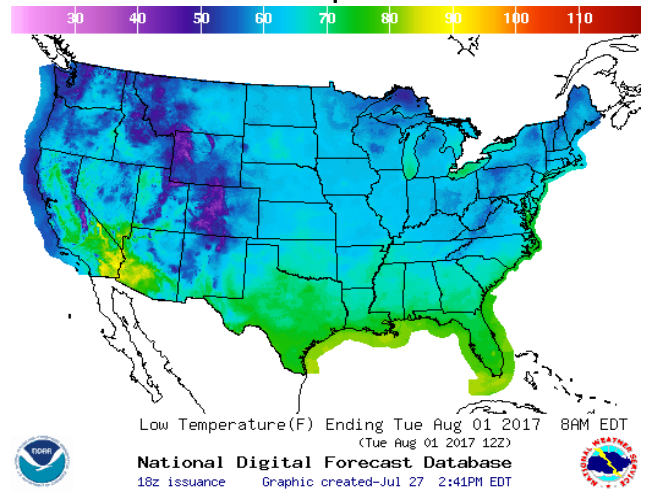


WEATHER – HIGH / LOW TEMPERATURE MONDAY

HIGH Temperature

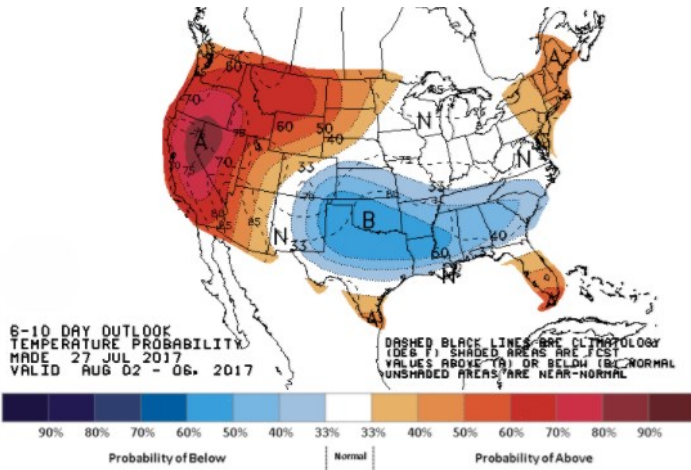


LOW Temperature

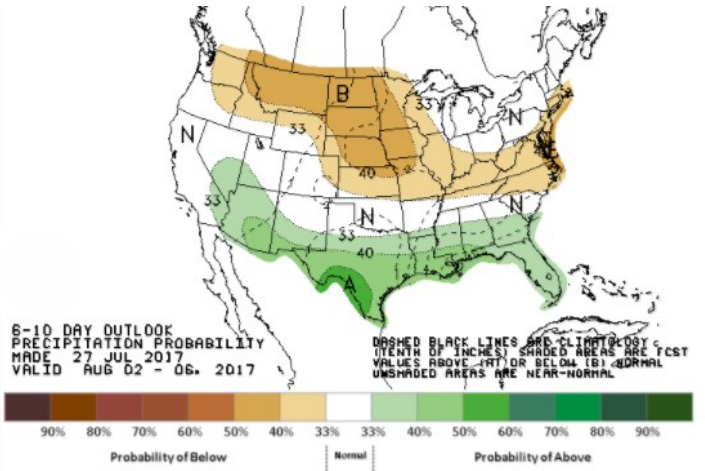


# NATURAL GAS NEWS

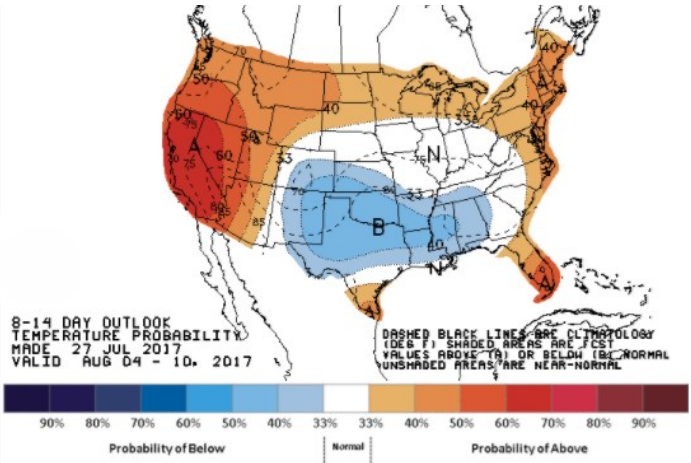
## WEATHER — 6 TO 10 DAY OUTLOOK — NOAA Temperature



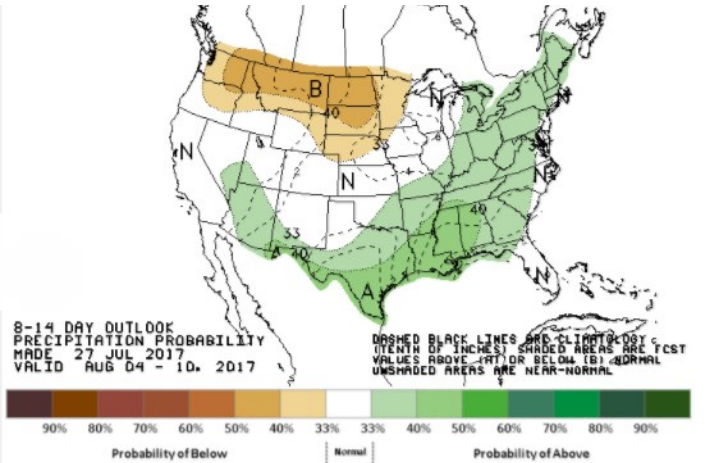
## Precipitation



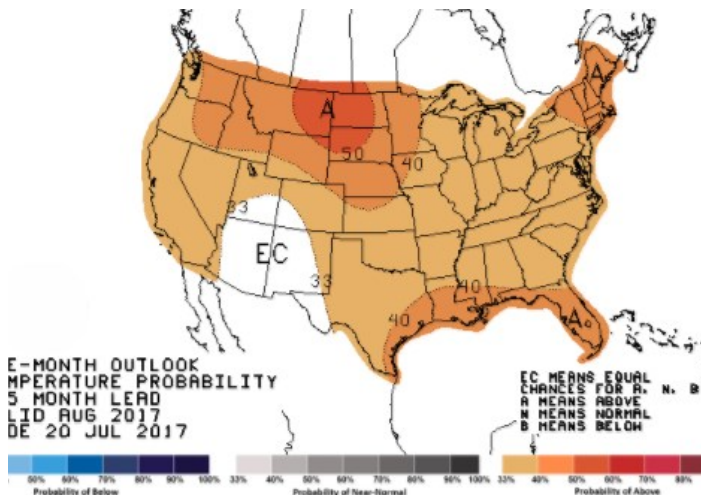
## WEATHER — 8 TO 14 DAY OUTLOOK — NOAA Temperature



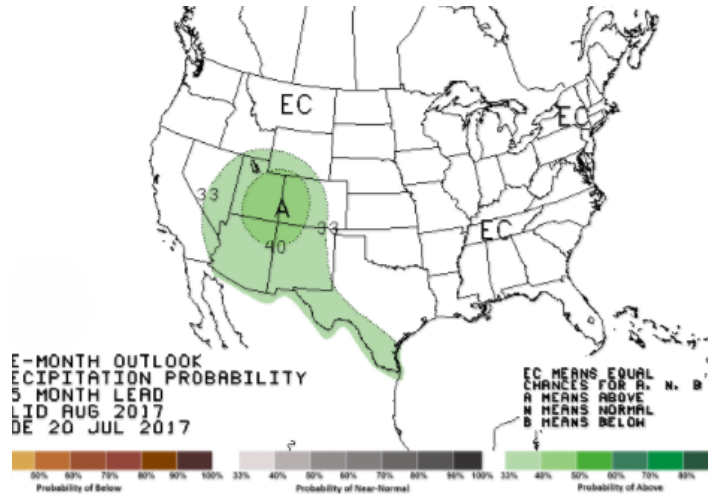
## Precipitation



## WEATHER — 30 DAY OUTLOOK — NOAA Temperature

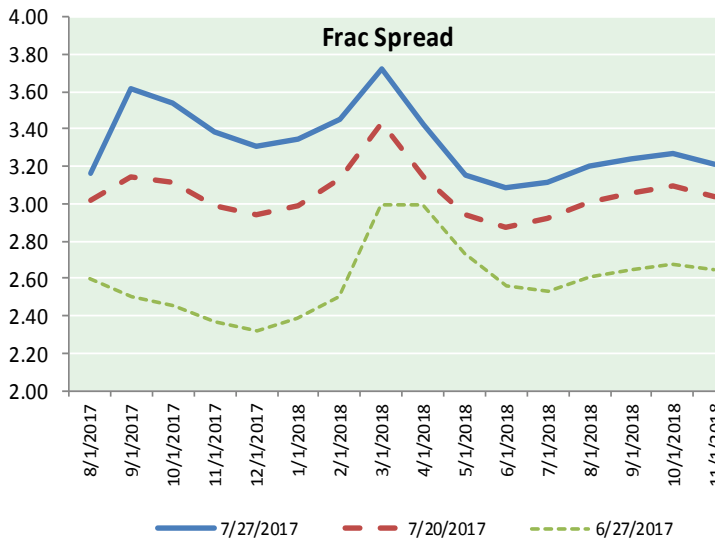
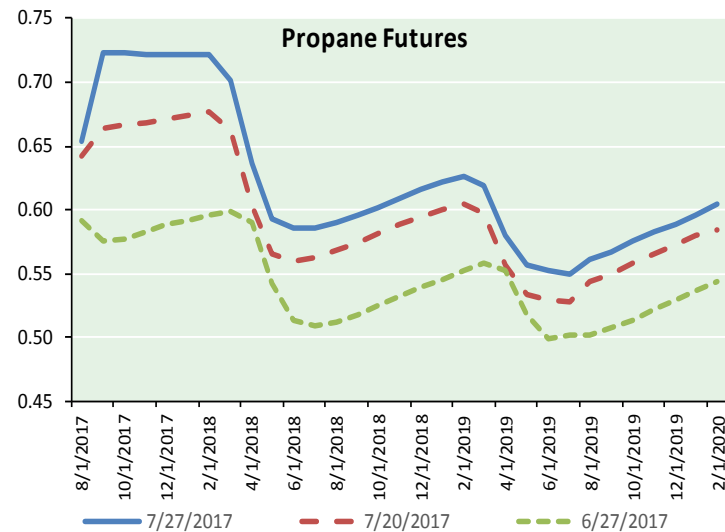
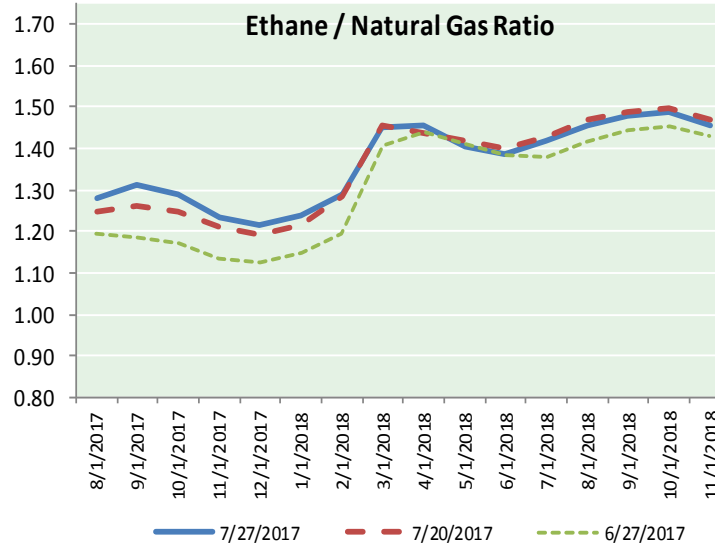
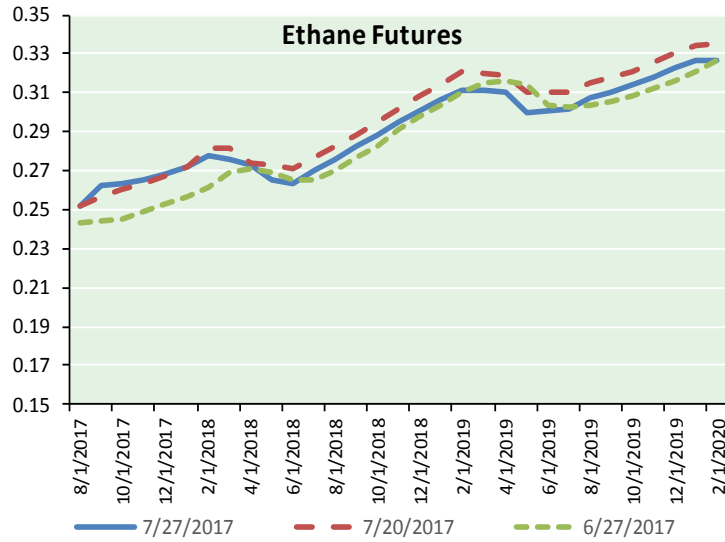


## Precipitation





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



CME Future Prices

Ethane (C2)

Non-LDH— Mont Belvieu

(cents/gallon)		
Month	Close	Change
Aug-17	0.252	0.000
Sep-17	0.262	0.002
Oct-17	0.264	0.002
Nov-17	0.265	0.002
Dec-17	0.268	0.002
Jan-18	0.272	0.002
Feb-18	0.278	(0.001)
Mar-18	0.276	(0.001)
Apr-18	0.273	0.002
May-18	0.266	(0.003)
Jun-18	0.264	(0.003)
Jul-18	0.270	(0.001)

1YR Strip 0.268 0.000

CME Future Prices

Propane (C3)

Non-LDH— Mont Belvieu

(cents/gallon)		
Month	Close	Change
Aug-17	0.654	0.002
Sep-17	0.723	0.015
Oct-17	0.723	0.016
Nov-17	0.722	0.015
Dec-17	0.722	0.014
Jan-18	0.722	0.012
Feb-18	0.722	0.011
Mar-18	0.702	0.008
Apr-18	0.636	0.005
May-18	0.593	0.005
Jun-18	0.586	0.005
Jul-18	0.586	0.003

1YR Strip 0.674 0.009



# NATURAL GAS NEWS



## Prompt WTI (CL) Crude Daily Sentiment

**BULLISH**



RESISTANCE  
49.44 & 49.83  
SUPPORT  
48.45 & 47.85

### FOLLOW US ON TWITTER:



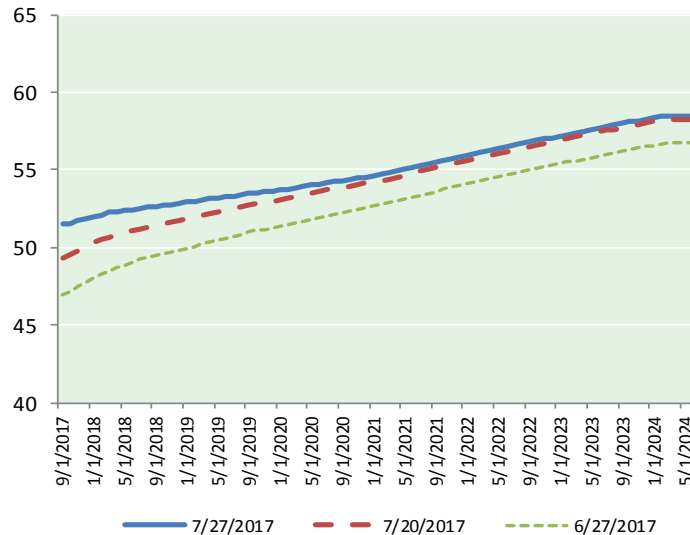
@MPG\_NatGasNews

## NYMEX Brent (BZ)

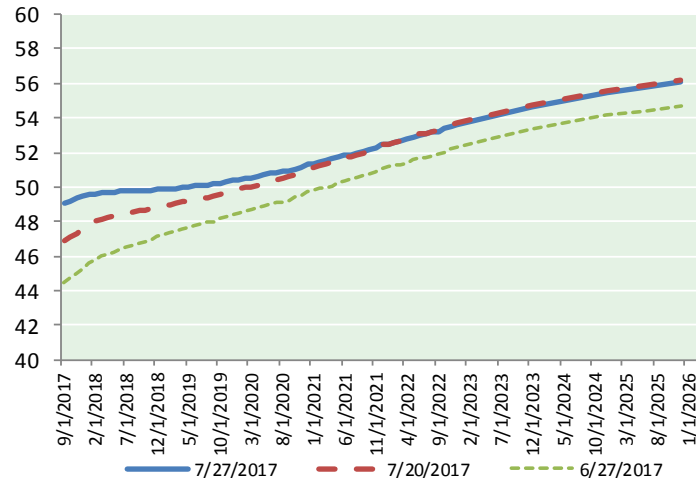
### Futures

Month	Close	Change
Sep-17	51.49	0.52
Oct-17	51.52	0.42
Nov-17	51.69	0.38
Dec-17	51.85	0.35
Jan-18	51.98	0.32
Feb-18	52.12	0.30
Mar-18	52.24	0.29
Apr-18	52.33	0.27
May-18	52.40	0.25
Jun-18	52.46	0.23
Jul-18	52.55	0.21
Aug-18	52.63	0.19
Sep-18	52.67	0.16
Oct-18	52.72	0.14
Nov-18	52.78	0.12
Dec-18	52.85	0.11
Jan-19	52.91	0.09
Feb-19	52.99	0.07
Mar-19	53.06	0.05
Apr-19	53.16	0.03
May-19	53.21	0.01
Jun-19	53.24	(0.01)
Jul-19	53.34	(0.03)
Aug-19	53.41	(0.05)
1YR Strip	52.11	0.31
2017	51.64	0.42
5YR Strip	54.01	(0.09)

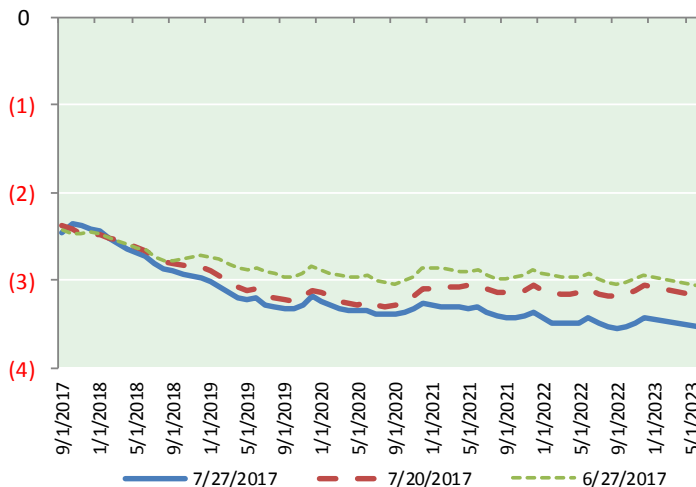
## BRENT CRUDE FORWARD CURVE



## 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-17	Close	Change
Butane	0.798	0.001
Iso-Butane	0.797	0.002
Nat Gasoline	1.046	0.003

## NYMEX WTI (CL) Futures

Month	Close	Change
Sep-17	49.04	0.29
Oct-17	49.17	0.32
Nov-17	49.32	0.33
Dec-17	49.44	0.33
Jan-18	49.54	0.32
Feb-18	49.60	0.30
Mar-18	49.65	0.29
Apr-18	49.69	0.28
May-18	49.71	0.26
Jun-18	49.73	0.24
Jul-18	49.74	0.23
Aug-18	49.75	0.21
Sep-18	49.77	0.19
Oct-18	49.79	0.16
Nov-18	49.83	0.13
Dec-18	49.88	0.10
Jan-19	49.89	0.08
Feb-19	49.91	0.06
Mar-19	49.93	0.04
Apr-19	49.96	0.02
May-19	49.99	0.01
Jun-19	50.04	(0.01)
Jul-19	50.06	(0.02)
Aug-19	50.10	(0.04)
1YR Strip	49.53	0.28
2017	49.24	0.32
5YR Strip	50.85	(0.07)