

# NATURAL GAS



NEWS

JUNE 30, 2017

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



## NYMEX NG Futures

Month	Close	Change
Aug-17	3.042	(0.052)
Sep-17	3.037	(0.050)
Oct-17	3.065	(0.050)
Nov-17	3.125	(0.050)
Dec-17	3.272	(0.051)
Jan-18	3.357	(0.053)
Feb-18	3.338	(0.050)
Mar-18	3.270	(0.044)
Apr-18	2.857	(0.019)
May-18	2.816	(0.018)
Jun-18	2.841	(0.018)
Jul-18	2.867	(0.018)
Aug-18	2.873	(0.017)
Sep-18	2.849	(0.016)
Oct-18	2.867	(0.015)
Nov-18	2.914	(0.015)
Dec-18	3.044	(0.014)
Jan-19	3.131	(0.011)
Feb-19	3.104	(0.011)
Mar-19	3.037	(0.011)
Apr-19	2.702	0.002
May-19	2.677	0.004
Jun-19	2.706	0.004
Jul-19	2.736	0.004
1YR Strip	3.074	(0.039)
2017	3.108	(0.051)
5YR Strip	2.904	(0.007)

## IN THE NEWS

API study finds natural gas benefits on an expansion path — Observer-Reporter reports: The abundant output of natural gas in the United States over the past decade, particularly from the

- API study finds natural gas benefits on an expansion path
- U.S. natural gas futures rise to 4-week high after weekly storage data

Marcellus and Utica shale strata, are providing economic benefits across the country, according to a study released Tuesday by the American Petroleum Institute. The study, conducted for the institute by ICF International, examined the economic benefits and opportunities from the entire natural gas value chain, including the production of natural gas, its transportation and end uses such as power generation and manufacturing. And despite the current and projected savings for U.S. consumers of natural gas for heating, one of the biggest growth areas is expected to be in domestic manufacturing of petrochemicals. The ICF study found there were 4.1 million jobs in the United States related to natural gas in 2015, with the top three sectors being support activities for oil and gas operations, chemical manufacturing and oil and gas pipeline construction. For more visit [observer-reporter.com](http://observer-reporter.com) or click the following link <http://bit.ly/2rZTJGB>

U.S. natural gas futures rise to 4-week high after weekly storage data – Investing.com reports: U.S. natural gas futures rose to a four-week high Thursday, extending gains into a fifth session after data showed domestic supplies in storage rose less than anticipated. U.S. natural gas for August delivery was at \$3.117 per million British thermal units. Natural gas edged higher on Tuesday to notch its fourth winning session in a row on Wednesday. Meanwhile, updated weather forecasting models point to increased summer demand in the weeks ahead. For more on this story visit [investing.com](http://investing.com) or click the following link <http://bit.ly/2uoF89f>

## 12 MONTH CANDLESTICK (WEEKLY)



## Prompt Natural Gas (NG) Daily Sentiment

NEUTRAL



RESISTANCE  
3.10 & 3.16  
SUPPORT  
3.01 & 2.98

## Trading Summary

### NATURAL GAS

Futures	Close	Change
NG	3.042	(0.052)
Volume	300,070	3,289
Open Int.	1,232,601	19,568

### CRUDE AND GASOLINE

Futures	Close	Change
Crude	44.93	0.19
RBOB	1.4856	0.0023
Crude/NG	14.77	0.31

### METALS

Futures	Close	Change
Gold	1,245.80	(2.30)

### EQUITIES

Exchange	Close	Change
DOW	21,287.03	(167.58)
S&P 500	2,294.62	(146.07)

### CURRENCY

Currency	Close	Change
EUR/USD	1.1480	0.0050
USD/CND	1.2960	(0.0043)

## Contact Us



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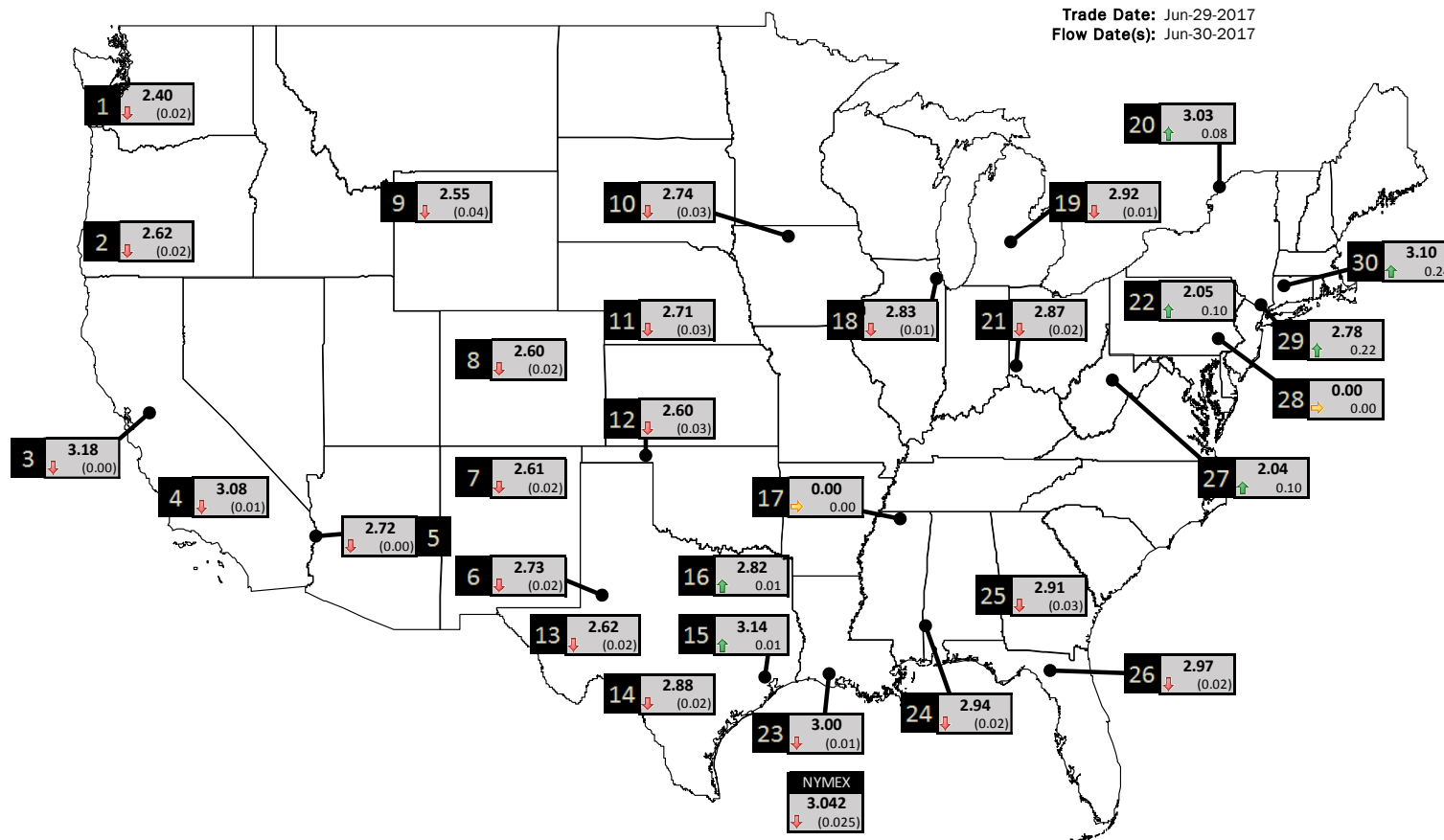
[info@mansfieldoil.com](mailto:info@mansfieldoil.com)

Phone: (800) 695-6626



# NATURAL GAS NEWS

## PHYSICAL SPOT NATURAL GAS PRICE MAP



ID	DAILY INDEX	PRICE	CHANGE
1	Stanfield	2.40	(0.02)
2	Malin	2.62	(0.02)
3	PG&E - Citygate	3.18	(0.00)
4	SoCal-Citygate	3.08	(0.01)
5	SoCal Border	2.72	(0.00)
6	Waha	2.73	(0.02)
7	EP-SJ Blanco Pool	2.61	(0.02)
8	Opal Plant Tailgate	2.60	(0.02)
9	NWP-Wyoming	2.55	(0.04)
10	Ventura	2.74	(0.03)

ID	DAILY INDEX	PRICE	CHANGE
11	NGPL-Midcont Pool	2.71	(0.03)
12	Panhandle	2.60	(0.03)
13	EP-Permian	2.62	(0.02)
14	TGP-ZO	2.88	(0.02)
15	Houston Ship Channel	3.14	0.01
16	NGPL-TXOK	2.82	0.01
17	TETCO-M1 30	0.00	0.00
18	Chicago Citygates	2.83	(0.01)
19	Michcon	2.92	(0.01)
20	Iroquois (into)	3.03	0.08

ID	DAILY INDEX	PRICE	CHANGE
21	REX E-ANR	2.87	(0.02)
22	Leidy-Transco	2.05	0.10
23	Henry	3.00	(0.01)
24	Transco-85	2.94	(0.02)
25	Sonat-ZO South	2.91	(0.03)
26	FGT-Z3	2.97	(0.02)
27	Dominion-South	2.04	0.10
28	Transco-Z6 (non-NY)	0.00	0.00
29	Transco-Z6 (NY)	2.78	0.22
30	Iroquois-Z2	3.10	0.24

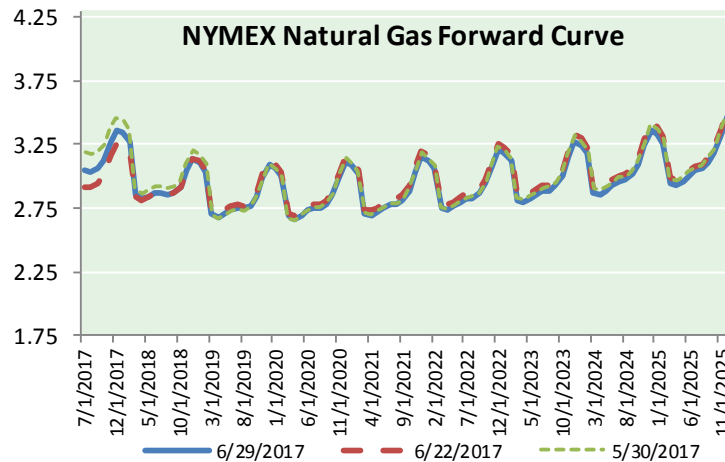
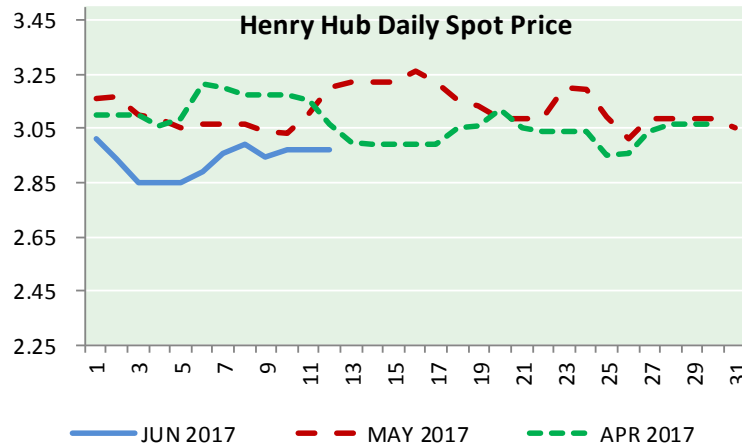
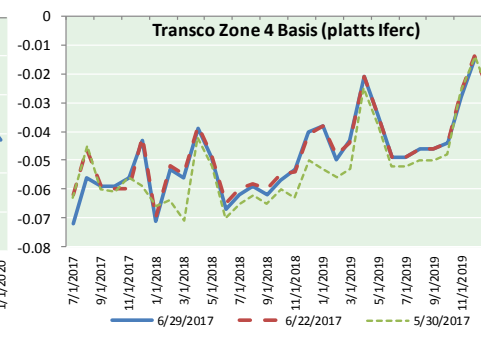
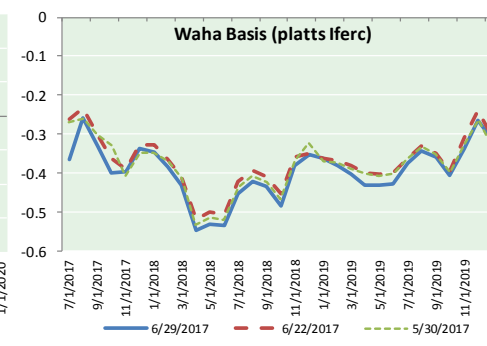
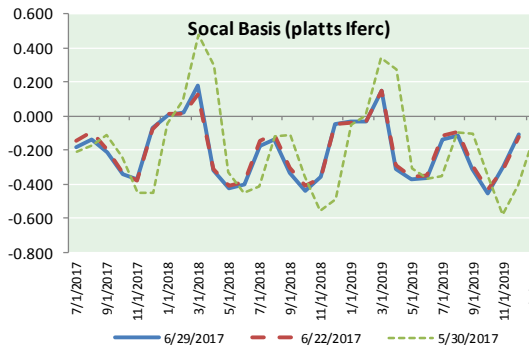
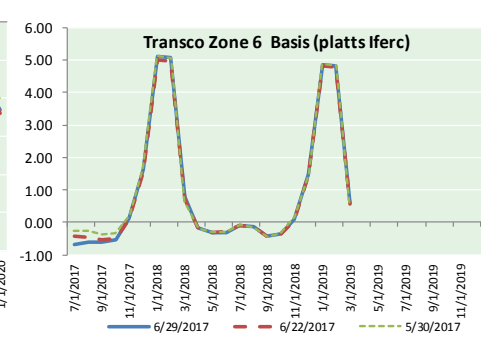
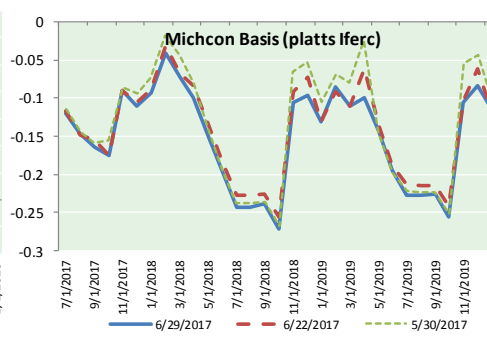
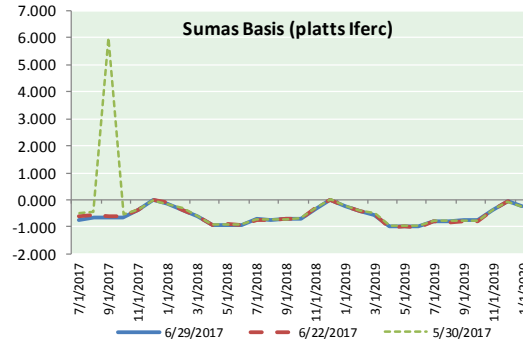


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# NATURAL GAS NEWS

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



### CME NG Option Prices

#### ATM Call

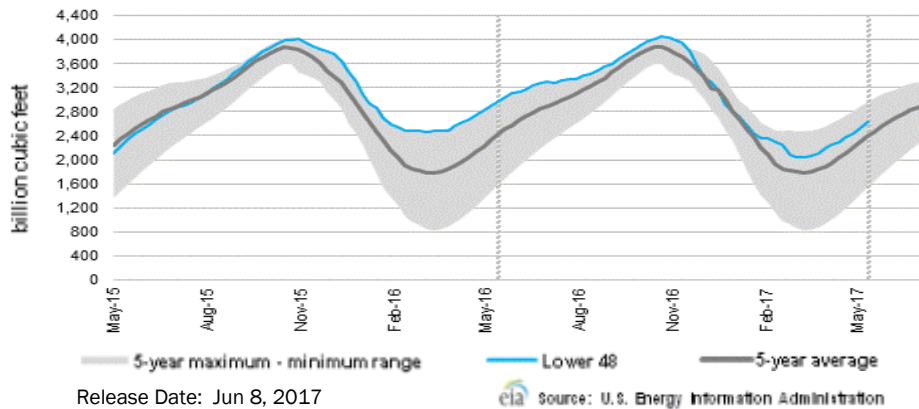
Month	Strike	Close	Imp Vol
Aug-17	3.050	0.110	37.5
Sep-17	3.000	0.183	35.6
Oct-17	3.050	0.213	35.6
Nov-17	3.100	0.250	34.7
Dec-17		3.050	0.1
Jan-18			
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			

### CME NG Option Prices

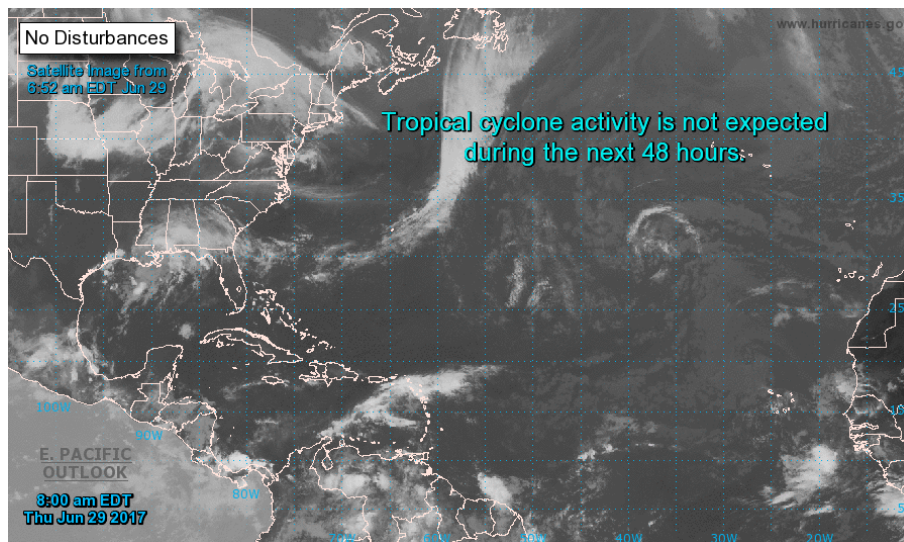
#### ATM Put

Month	Strike	Close	Imp Vol
Aug-17	3.050	0.117	31.9
Sep-17	3.000	0.145	31.9
Oct-17	3.050	0.193	31.9
Nov-17	3.100		
Dec-17			
Jan-18			
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			

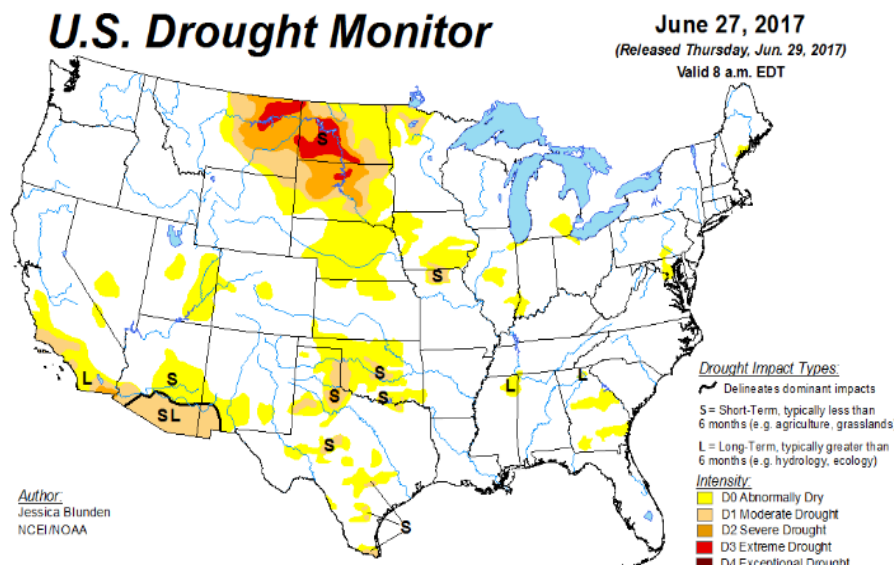
WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



TROPICAL STORM ACTIVITY- ATLANTIC



U.S. DROUGHT MONITOR



Rig Count

Report Date: June 23, 2017

	Total	Change
US -	941	+8
CN -	170	+11

EIA Weekly NG Storage Actual and Surveys for June 23, 2017

Released June 29, 2017

- Citi — +54
- ARM — +44
- Reuters — +49

EIA ACTUAL — +61

Total Working Gas In Storage

**2,816 BCF**

- +46 BCF (LAST WEEK)
- (319) BCF (LAST YEAR)
- +181 BCF (5-YR AVG)

U.S. Natural Gas Supply Gas Week 6/22 - 6/28

Average daily values (BCF/D):  
 Last Year (BCF/d)  
 Dry Production — +71.3  
 Total Supply — +77.5  
 Last Week (BCF/d)  
 Dry Production — +71.6  
 Total Supply — +77.2

[NEXT REPORT ON JUL 6]

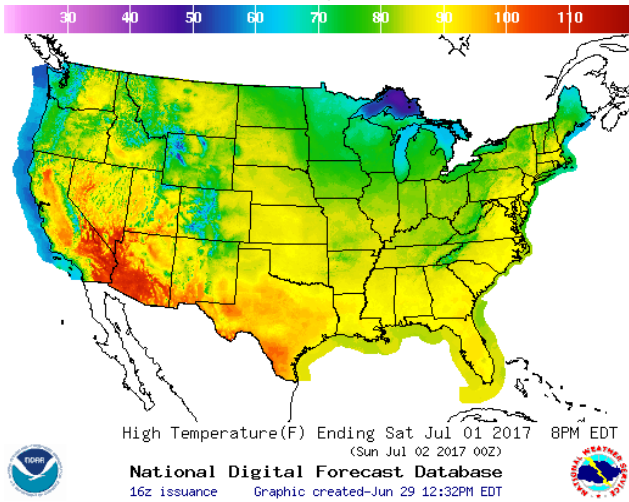
U.S. Natural Gas Demand Gas Week 6/22 - 6/28

Average daily values (BCF/D):  
 Last Year (BCF/d)  
 Power — +34.6  
 Total Demand — +72.3  
 Last Week (BCF/d)  
 Power — +29.4  
 Total Demand — +68.8

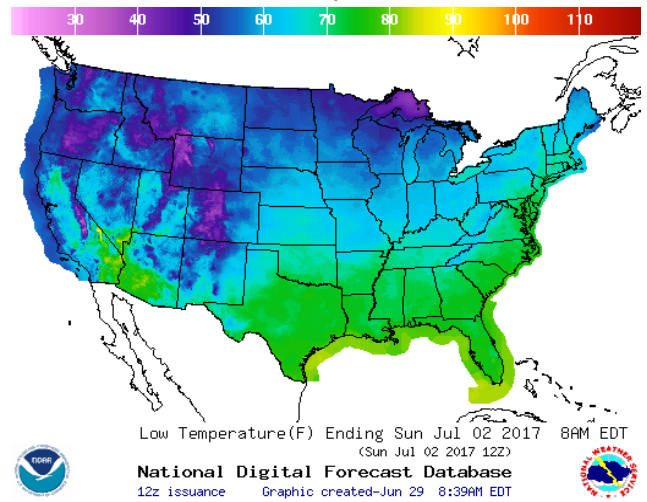
[NEXT REPORT ON JUN 29]

WEATHER – HIGH / LOW TEMPERATURE SATURDAY

HIGH Temperature

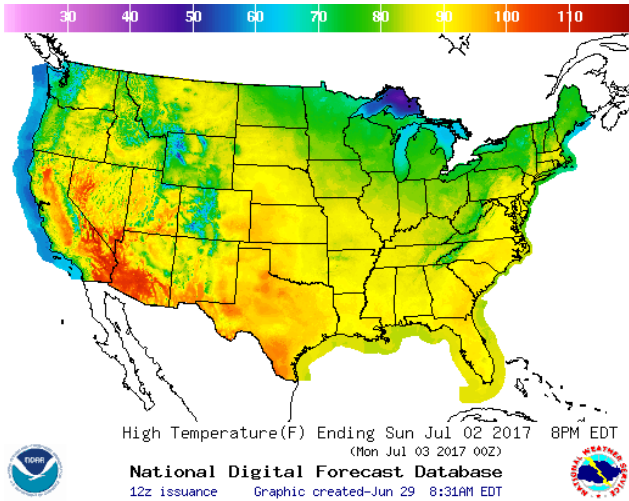


LOW Temperature

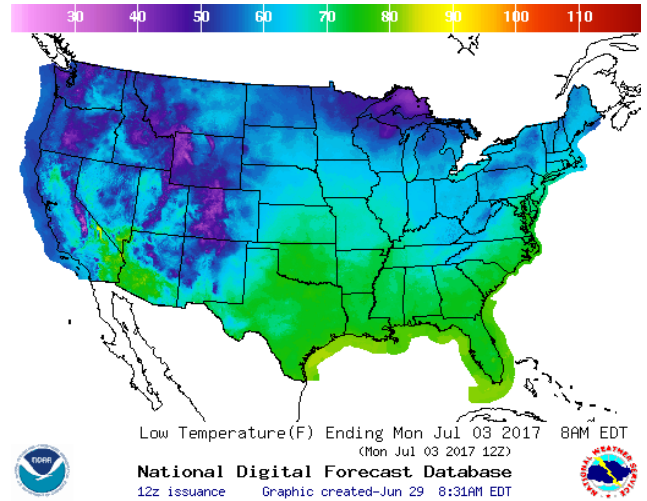


WEATHER – HIGH / LOW TEMPERATURE SUNDAY

HIGH Temperature

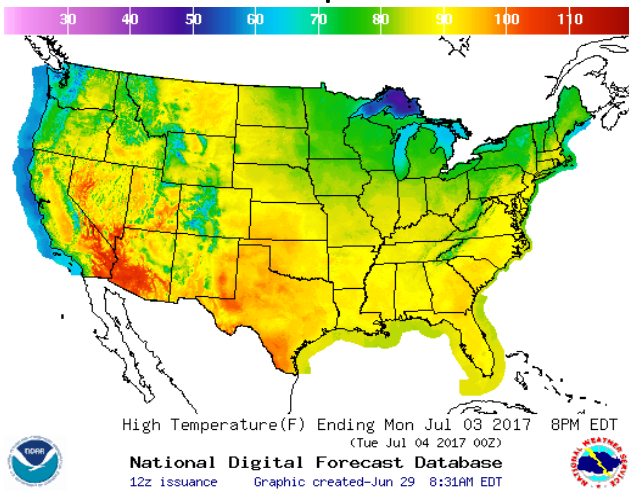


LOW Temperature

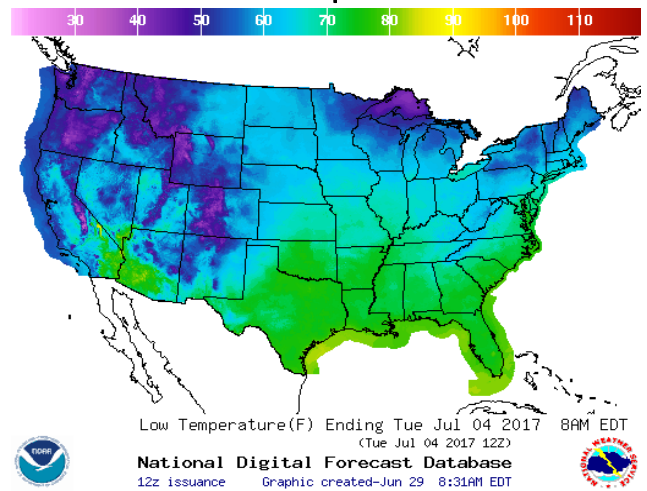


WEATHER – HIGH / LOW TEMPERATURE MONDAY

HIGH Temperature

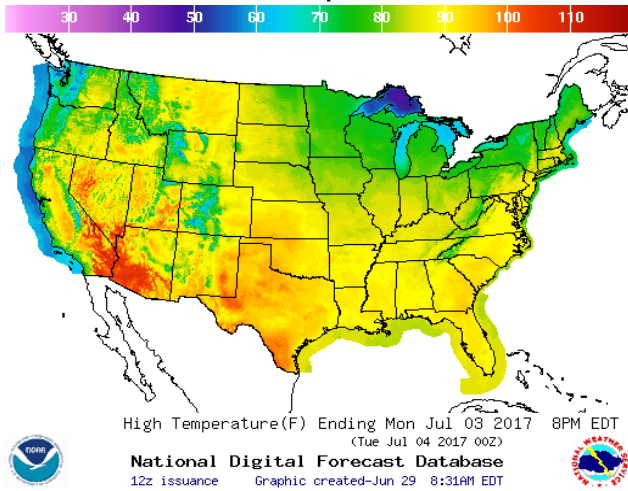


LOW Temperature

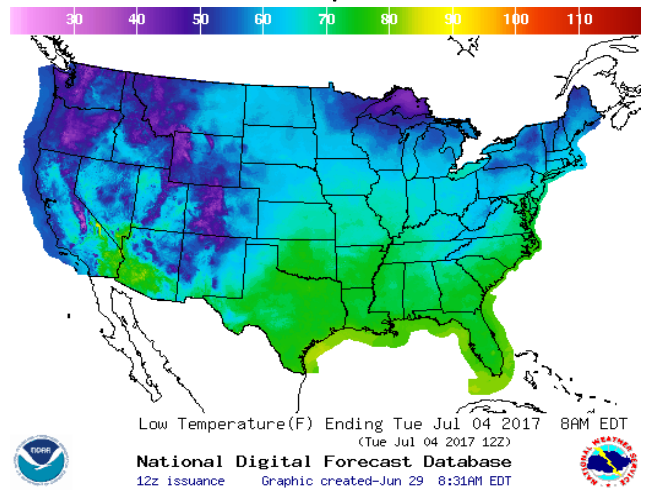


WEATHER — HIGH / LOW TEMPERATURE TUESDAY

HIGH Temperature

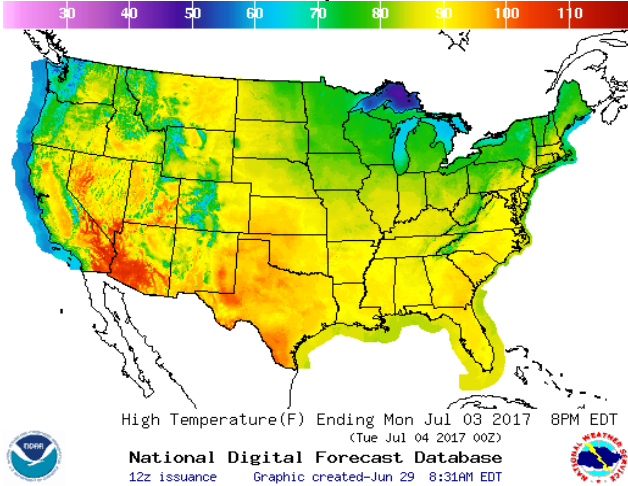


LOW Temperature

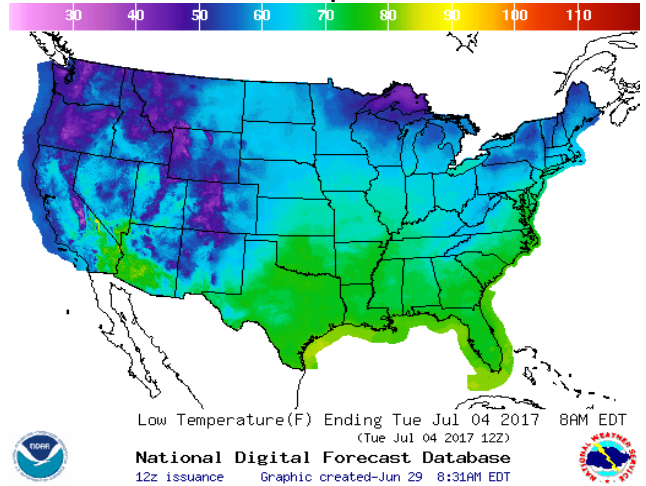


WEATHER — HIGH / LOW TEMPERATURE WEDNESDAY

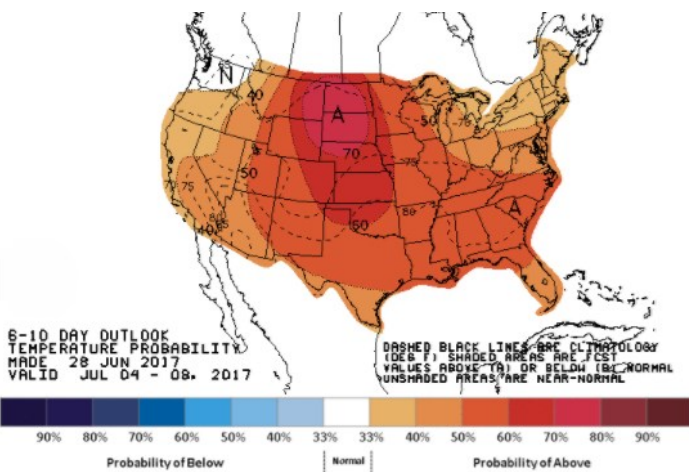
HIGH Temperature



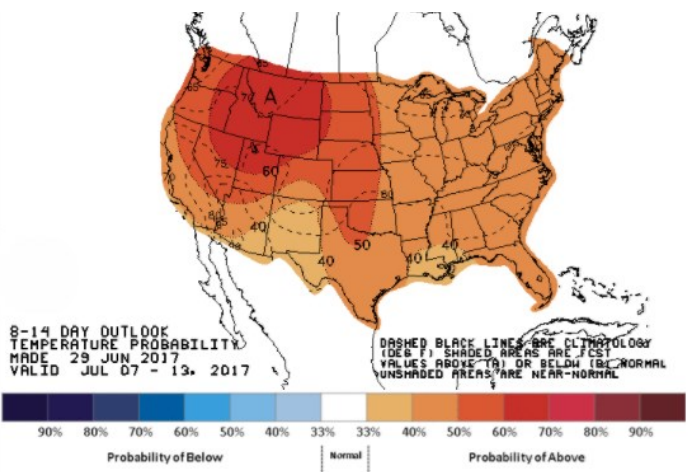
LOW Temperature



WEATHER — 6 TO 10 DAY OUTLOOK — NOAA  
Temperature



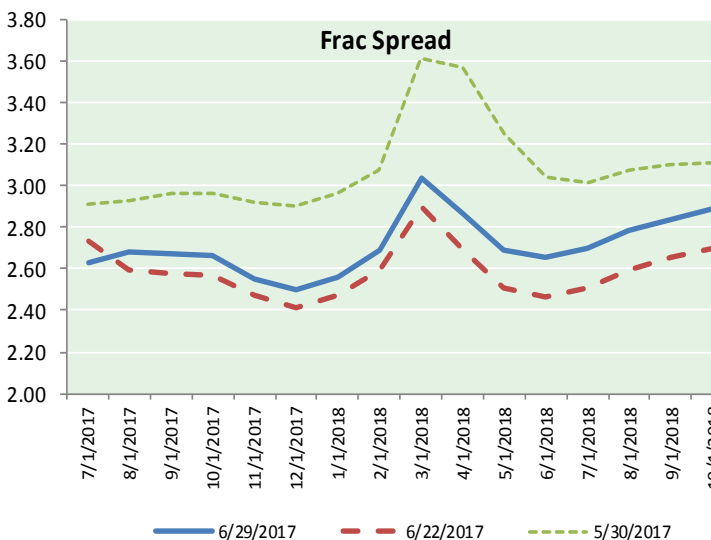
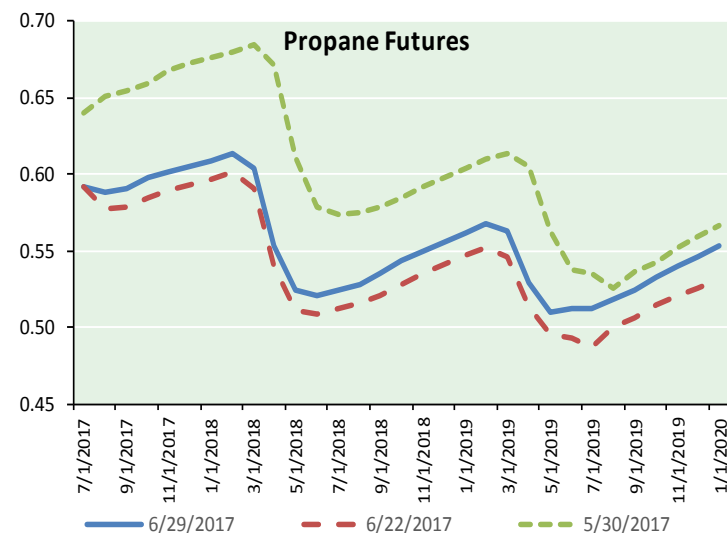
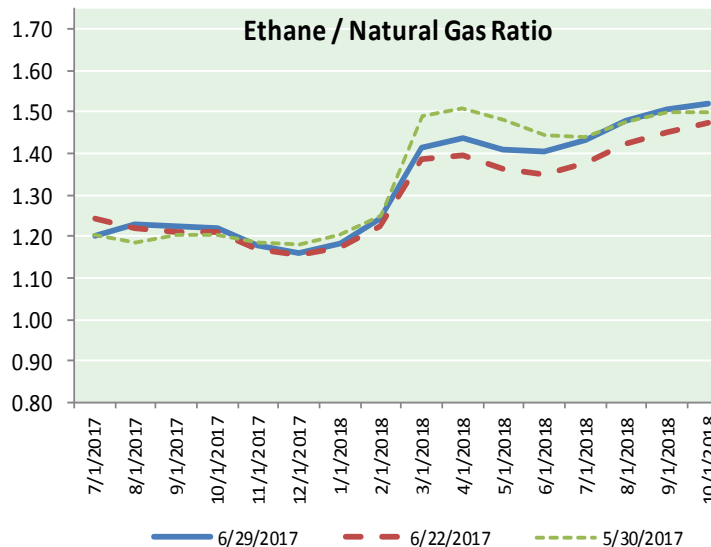
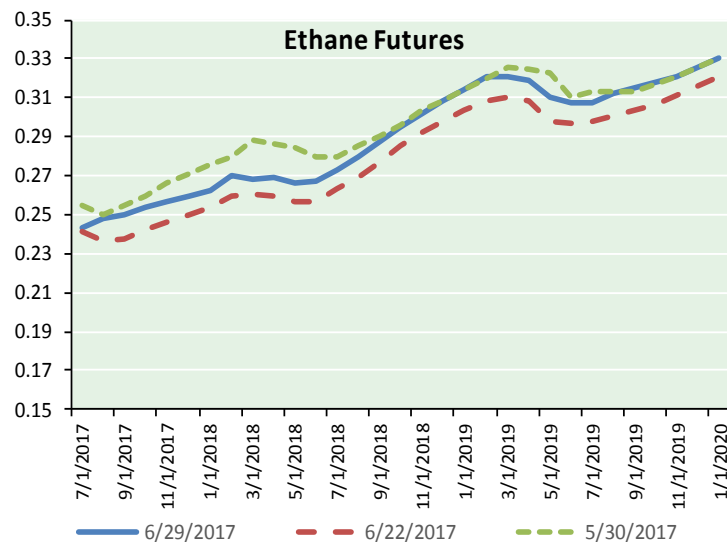
WEATHER — 8 TO 14 DAY OUTLOOK — NOAA  
Temperature



# 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
Jul-17	0.243	0.000
Aug-17	0.248	0.001
Sep-17	0.250	0.002
Oct-17	0.254	0.002
Nov-17	0.256	0.002
Dec-17	0.259	0.002
Jan-18	0.262	0.002
Feb-18	0.270	0.002
Mar-18	0.268	(0.001)
Apr-18	0.269	0.002
May-18	0.266	0.002
Jun-18	0.268	0.001

1YR Strip 0.259 0.001

### CME Future Prices

#### Propane (C3)

##### Non-LDH— Mont Belvieu

Month	Close	Change
Jul-17	0.592	0.001
Aug-17	0.589	0.011
Sep-17	0.591	0.010
Oct-17	0.598	0.010
Nov-17	0.602	0.010
Dec-17	0.606	0.010
Jan-18	0.609	0.010
Feb-18	0.614	0.011
Mar-18	0.604	0.010
Apr-18	0.554	0.007
May-18	0.524	0.006
Jun-18	0.521	0.006

1YR Strip 0.584 0.009

# NATURAL GAS NEWS



## Prompt WTI (CL) Crude

### Daily Sentiment

**NEUTRAL**



RESISTANCE

45.37 & 45.81

SUPPORT

44.57 & 44.21

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## NYMEX Brent (BZ)

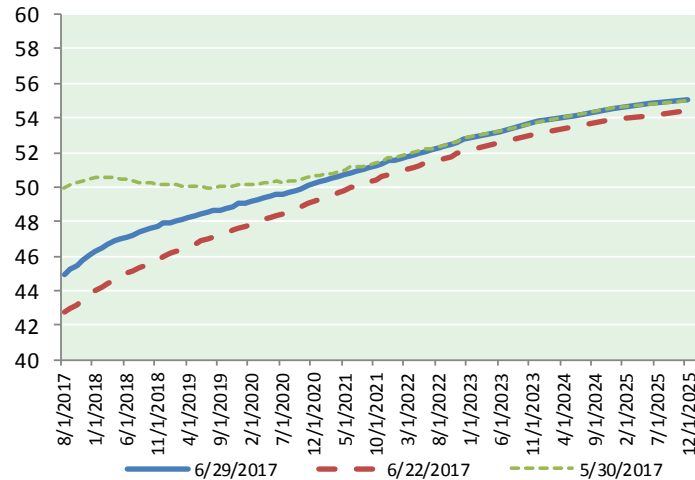
### Futures

Month	Close	Change
Aug-17	47.42	0.11
Sep-17	47.63	0.09
Oct-17	47.93	0.12
Nov-17	48.23	0.14
Dec-17	48.50	0.15
Jan-18	48.77	0.16
Feb-18	49.00	0.17
Mar-18	49.22	0.19
Apr-18	49.43	0.21
May-18	49.61	0.22
Jun-18	49.77	0.23
Jul-18	49.95	0.24
Aug-18	50.12	0.25
Sep-18	50.25	0.27
Oct-18	50.36	0.28
Nov-18	50.47	0.29
Dec-18	50.57	0.29
Jan-19	50.69	0.29
Feb-19	50.81	0.29
Mar-19	50.96	0.30
Apr-19	51.13	0.31
May-19	51.25	0.32
Jun-19	51.33	0.32
Jul-19	51.47	0.32
1YR Strip 2017	48.79	0.17
5YR Strip	52.03	0.30

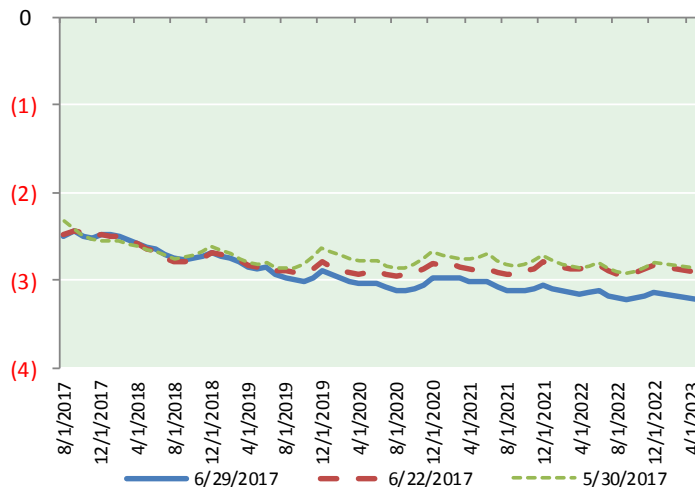
## BRENT CRUDE FORWARD CURVE



## 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)

	Jul-17	Close	Change
Butane	0.706	0.001	
Iso-Butane	0.705	0.001	
Nat Gasoline	0.999	0.000	

## NYMEX WTI (CL) Futures

Month	Close	Change
Aug-17	44.93	0.19
Sep-17	45.20	0.21
Oct-17	45.44	0.21
Nov-17	45.72	0.21
Dec-17	46.02	0.21
Jan-18	46.29	0.21
Feb-18	46.51	0.22
Mar-18	46.69	0.22
Apr-18	46.85	0.23
May-18	46.99	0.23
Jun-18	47.13	0.24
Jul-18	47.24	0.24
Aug-18	47.37	0.25
Sep-18	47.49	0.25
Oct-18	47.61	0.25
Nov-18	47.74	0.26
Dec-18	47.88	0.27
Jan-19	47.97	0.27
Feb-19	48.07	0.28
Mar-19	48.17	0.29
Apr-19	48.28	0.30
May-19	48.37	0.30
Jun-19	48.48	0.30
Jul-19	48.54	0.29
1YR Strip 2017	46.25	0.22
5YR Strip	49.13	0.29