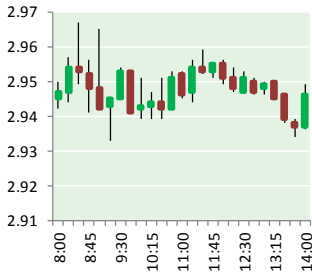


# NATURAL GAS



AUGUST 16, 2017

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



## NYMEX NG Futures

Month	Close	Change
Sep-17	2.935	(0.024)
Oct-17	2.965	(0.024)
Nov-17	3.040	(0.019)
Dec-17	3.179	(0.018)
Jan-18	3.278	(0.020)
Feb-18	3.270	(0.019)
Mar-18	3.221	(0.019)
Apr-18	2.892	(0.014)
May-18	2.859	(0.013)
Jun-18	2.884	(0.013)
Jul-18	2.909	(0.014)
Aug-18	2.914	(0.013)
Sep-18	2.890	(0.013)
Oct-18	2.909	(0.013)
Nov-18	2.958	(0.013)
Dec-18	3.087	(0.013)
Jan-19	3.172	(0.013)
Feb-19	3.148	(0.012)
Mar-19	3.080	(0.011)
Apr-19	2.712	(0.014)
May-19	2.682	(0.014)
Jun-19	2.705	(0.013)
Jul-19	2.728	(0.012)
Aug-19	2.736	(0.012)
1YR Strip	3.029	(0.018)
2017	3.030	(0.021)
5YR Strip	2.864	(0.012)

## IN THE NEWS

Oil holds at 3-week low as traders brace for U.S. supply data — MarketWatch reports: Oil pared much of their earlier losses on Tuesday, with U.S. prices finishing just a few cents lower and holding ground at their lowest level in three weeks. Concerns over growing U.S. shale-oil production weighed on the market,

- Oil holds at 3-week low as traders brace for U.S. supply data
- How Elon Musk and cheap oil doomed the push for a different kind of fuel

but prices found some support from the latest forecasts calling for a decline in weekly U.S. crude supplies. Oil prices were already on the decline Monday, then worsened after the U.S. Energy Information Administration said it expects to see a climb in crude output from key U.S. shale regions of 117,000 barrels a day in September to 6.149 million barrels a day. For more on this story visit [marketwatch.com](http://on.mktw.net/2uGnqmm) or click <http://on.mktw.net/2uGnqmm>

How Elon Musk and Cheap Oil Doomed the Push for a Different Kind of Fuel - Fortune reports: Back in 2008, the proposal by energy magnate T. Boone Pickens had some appeal. U.S. oil production was plunging, and the world's biggest fuel-consuming country was becoming ever more dependent on foreign crude. Oil jumped to a record near \$150 a barrel, while natural gas was comparatively cheap. Pickens co-founded Clean Energy Fuels Corp. to profit from the switch. The maker of natural gas filling stations was once valued at about \$1.8 billion. By 2011, U.S. oil output began to surge with the shale boom. Three years later, prices for crude, diesel and gasoline were tumbling. While natural gas has become a staple for domestic power plants, supplanting coal, the prospect for cheaper alternatives made it less attractive as a vehicle fuel. For more on this story visit [fortune.com](http://for.tn/2uZCoz2) or click the following link <http://for.tn/2uZCoz2>

## 12 MONTH CANDLESTICK (WEEKLY)



## Prompt Natural Gas (NG) Daily Sentiment

**NEUTRAL**



RESISTANCE  
2.97 & 3.00  
SUPPORT  
2.91 & 2.88

## Trading Summary

### NATURAL GAS

Futures	Close	Change
NG	2.935	(0.024)
Volume	339,128	(68,736)
Open Int.	1,340,316	(6,677)

### CRUDE AND GASOLINE

Futures	Close	Change
Crude	47.55	(0.04)
RBOB	1.5795	0.0028
Crude/NG	16.20	0.12

### METALS

Futures	Close	Change
Gold	1,273.70	(4.30)

### EQUITIES

Exchange	Close	Change
DOW	21,998.99	5.28
S&P 500	2,294.62	(171.22)

### CURRENCY

Currency	Close	Change
EUR/USD	1.1755	(0.0051)
USD/CND	1.2732	(0.0022)

## Contact Us



**Mansfield Energy Corp**  
1025 Airport Pkwy  
Gainesville, GA 30501  
  
www.mansfield.energy  
info@mansfieldoil.com

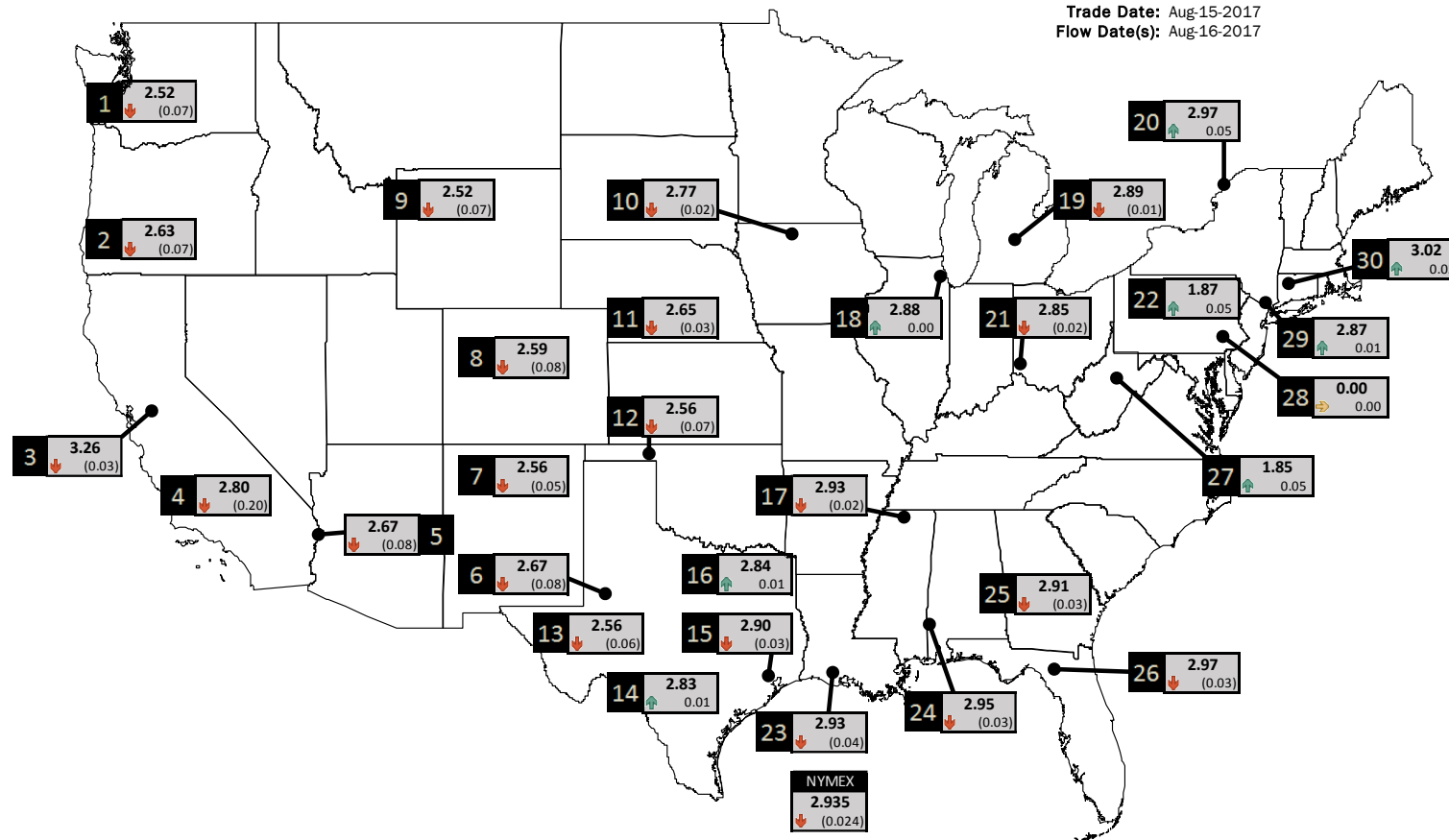
Phone: (800) 695-6626





NATURAL GAS NEWS

PHYSICAL SPOT NATURAL GAS PRICE MAP



ID	DAILY INDEX	PRICE	CHANGE
1	Stanfield	2.52	(0.07)
2	Malin	2.63	(0.07)
3	PG&E - Citygate	3.26	(0.03)
4	SoCal-Citygate	2.80	(0.20)
5	SoCal Border	2.67	(0.08)
6	Waha	2.67	(0.08)
7	EPSJ Blanco Pool	2.56	(0.05)
8	Opal Plant Tailgate	2.59	(0.08)
9	NWP-Wyoming	2.52	(0.07)
10	Ventura	2.77	(0.02)

ID	DAILY INDEX	PRICE	CHANGE
11	NGPL-Midcont Pool	2.65	(0.03)
12	Panhandle	2.56	(0.07)
13	EP-Permian	2.56	(0.06)
14	TGP-ZO	2.83	0.01
15	Houston Ship Channel	2.90	(0.03)
16	NGPL-TXOK	2.84	0.01
17	TETCO-M1 30	2.93	(0.02)
18	Chicago Citygates	2.88	0.00
19	Michcon	2.89	(0.01)
20	Iroquois (into)	2.97	0.05

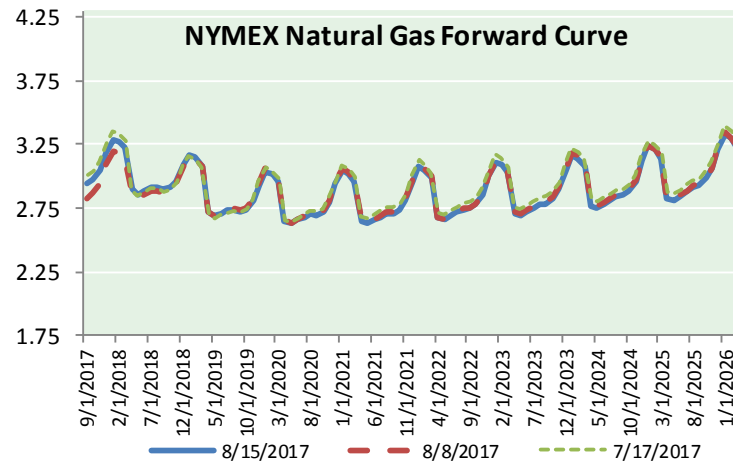
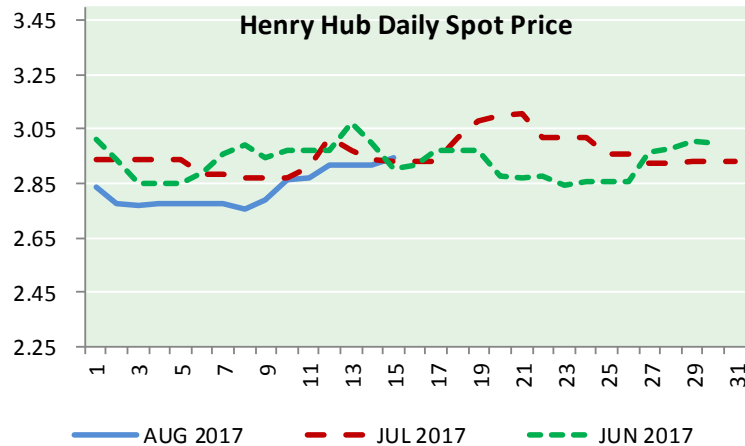
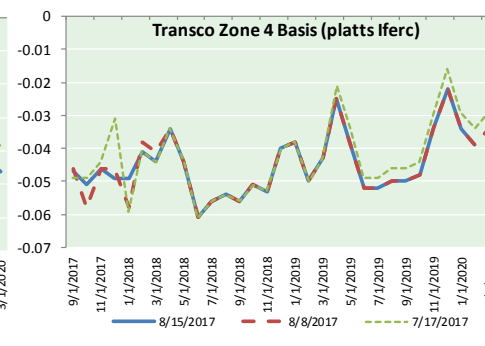
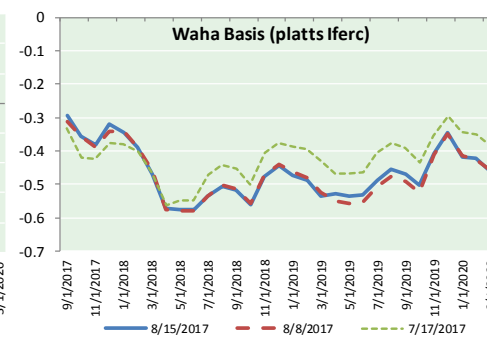
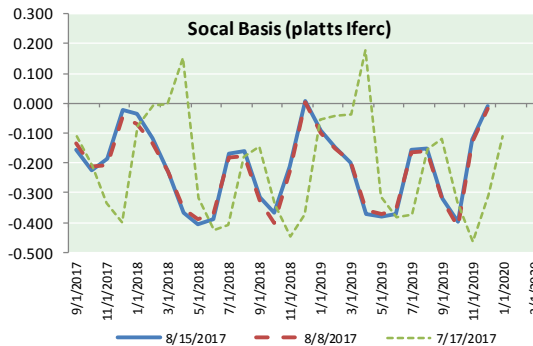
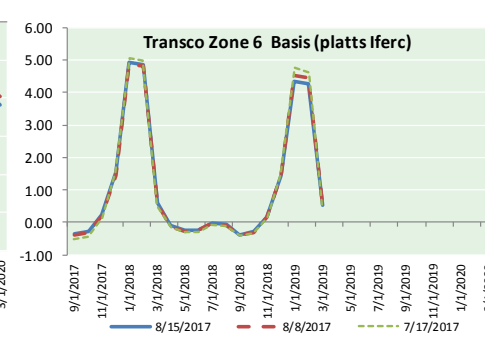
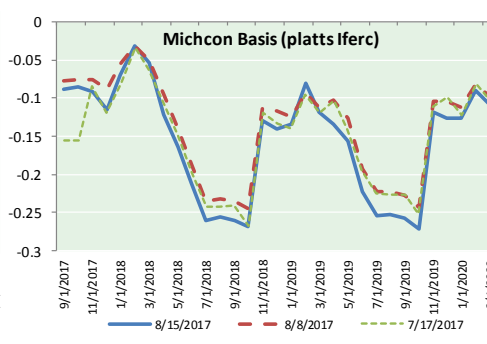
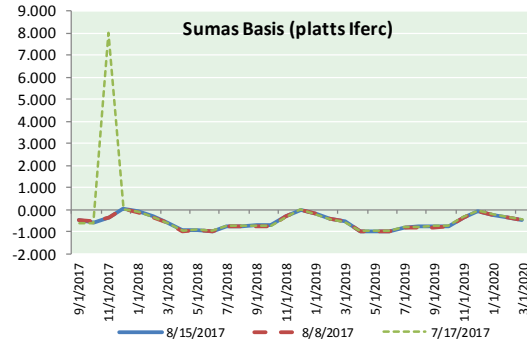
ID	DAILY INDEX	PRICE	CHANGE
21	REX E-ANR	2.85	(0.02)
22	Leidy-Transco	1.87	0.05
23	Henry	2.93	(0.04)
24	Transco-85	2.95	(0.03)
25	Sonat-ZO South	2.91	(0.03)
26	FGT-Z3	2.97	(0.03)
27	Dominion-South	1.85	0.05
28	Transco-Z6 (non-NY)	0.00	0.00
29	Transco-Z6 (NY)	2.87	0.01
30	Iroquois-Z2	3.02	0.05

DISCLAIMER: The content herein is privileged and confidential. Content is presented for informational purposes and is a reflection of the market opinions of its authors subject to change without notice. Content is derived from sources believed to be accurate at the time of release but carries no guarantee of accuracy or completeness. Mansfield Energy Corp and its clients may or may not take positions similar or opposite those discussed herein. The reader should realize that the trading of commodities involves risk, and the reader assumes all responsibility for the risk of financial losses.





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



CME NG Option Prices

ATM Call

Month	Strike	Close	Imp Vol
Sep-17	2.900	0.080	33.7
Oct-17	2.950	0.125	31.9
Nov-17	3.000	0.191	33.7
Dec-17	3.150	0.234	33.7
Jan-18	3.250	0.301	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			

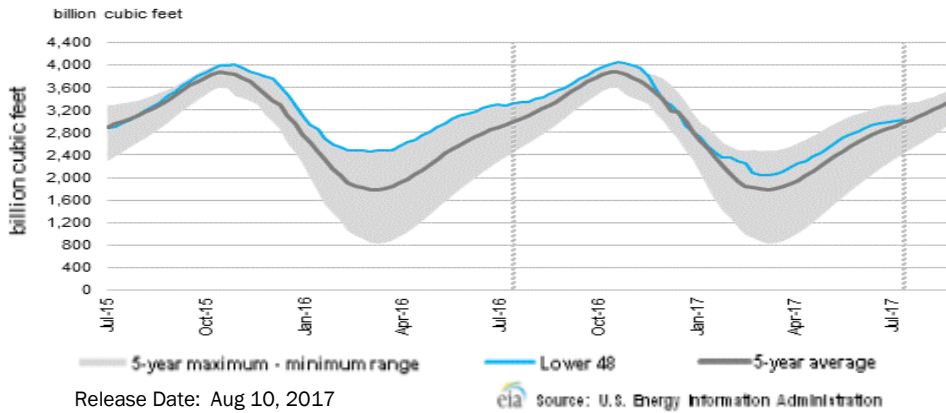
CME NG Option Prices

ATM Put

Month	Strike	Close	Imp Vol
Sep-17	2.900	0.056	30.0
Oct-17	2.950	0.106	26.2
Nov-17	3.000	0.144	29.0
Dec-17	3.150	0.208	31.9
Jan-18	3.250	0.274	35.6
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			
Jan-19			

# NATURAL GAS NEWS

## WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



## Rig Count

Report Date: August 11, 2017

	Total	Change
US -	949	(5)
CN -	220	+3

## EIA Storage History for 33rd Week of Year

(Due to Report Aug 17)

Year	Week Ending	BCF
2013	Aug 16, 2013	+56
2014	Aug 15, 2014	+88
2015	Aug 14, 2015	+52
2016	Aug 12, 2016	+22

ESTIMATE — +48

## Total Working Gas In Storage

**3,038 BCF**

- +28 BCF (LAST WEEK)
- (275) BCF (LAST YEAR)
- +33 BCF (5-YR AVG)

## U.S. Natural Gas Supply Gas Week 8/3 - 8/9

Average daily values (BCF/D):

Last Year (BCF/d)

Dry Production — +71.9

Total Supply — +79.0

Last Week (BCF/d)

Dry Production — +72.7

Total Supply — +78.8

[NEXT REPORT ON AUG 17]

## U.S. Natural Gas Demand Gas Week 8/3 - 8/9

Average daily values (BCF/D):

Last Year (BCF/d)

Power — +37.8

Total Demand — +76.2

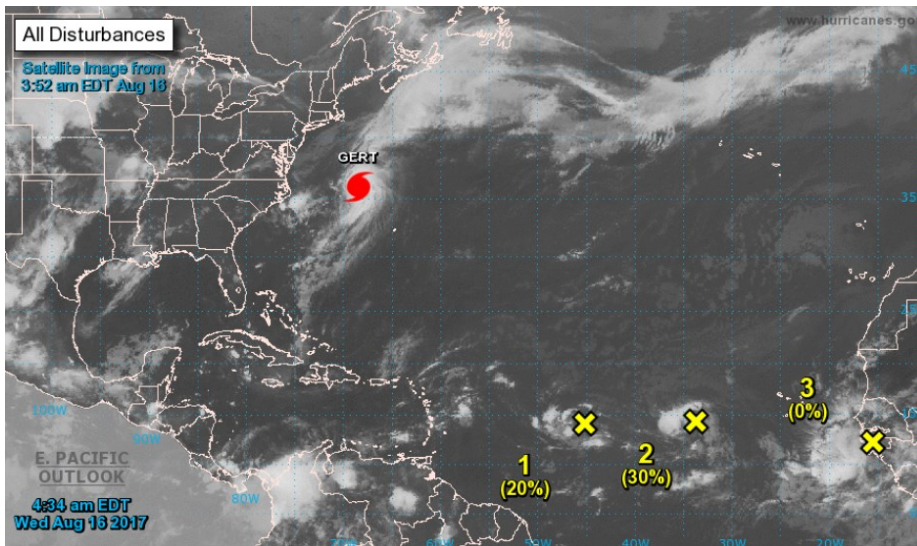
Last Week (BCF/d)

Power — +37.6

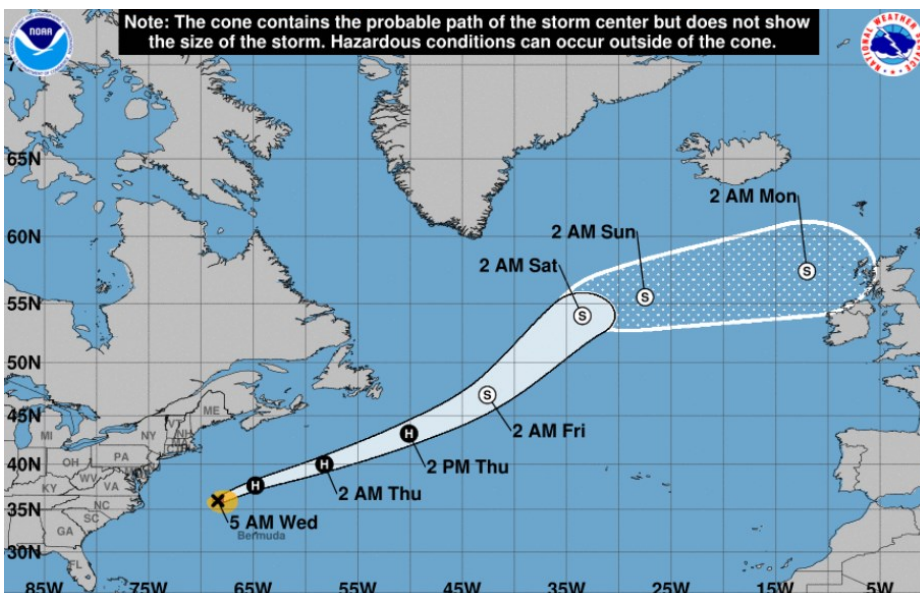
Total Demand — +74.6

[NEXT REPORT ON AUG 17]

## TROPICAL STORM ACTIVITY— ATLANTIC

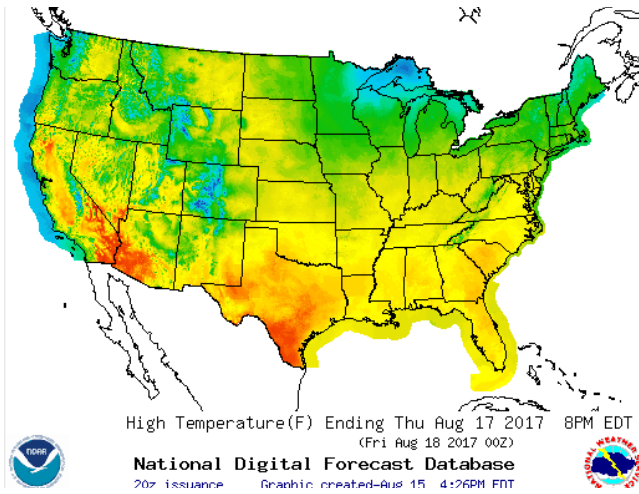


GERT

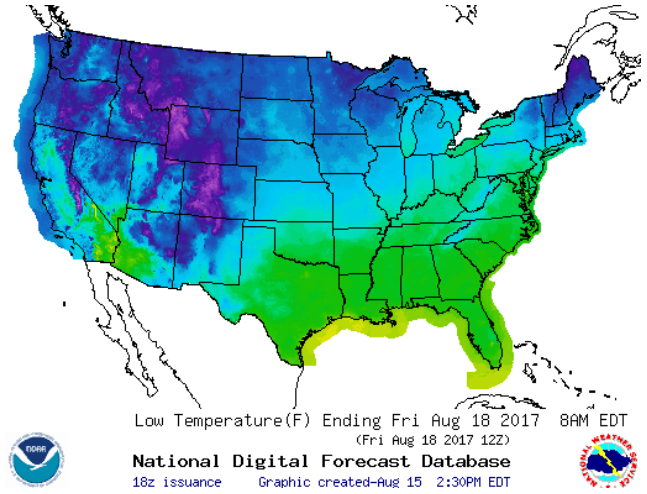


WEATHER – HIGH / LOW TEMPERATURE TOMORROW

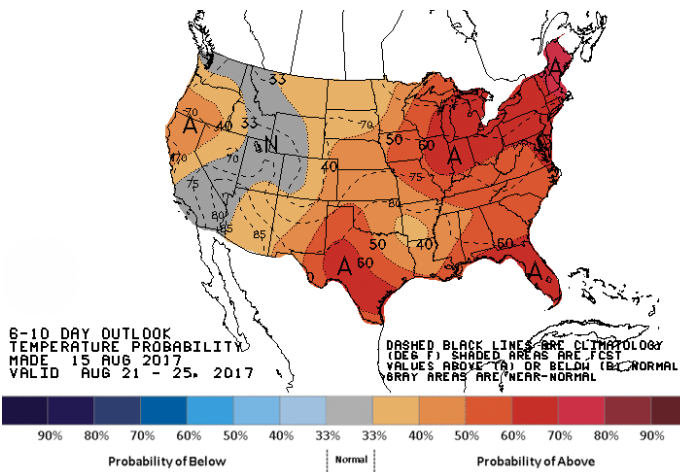
HIGH Temperature



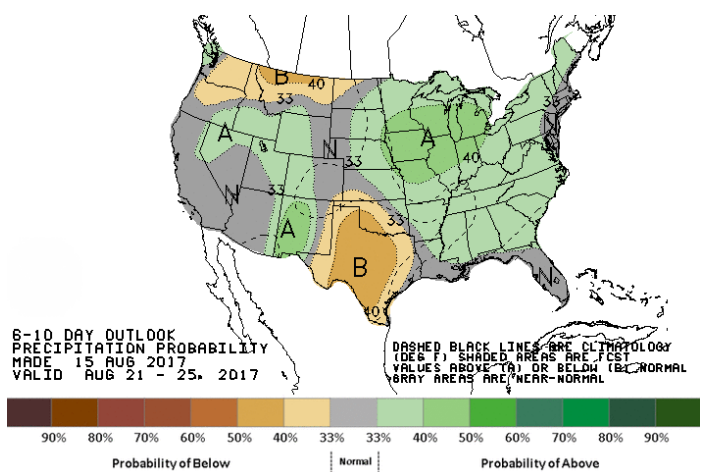
LOW Temperature



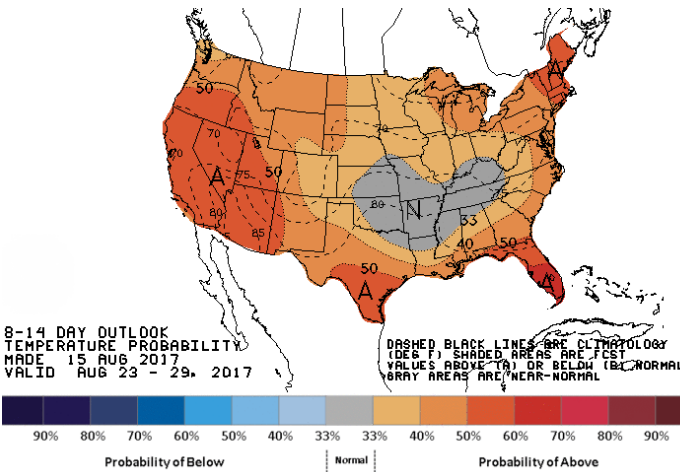
WEATHER – 6 TO 10 DAY OUTLOOK – NOAA  
Temperature



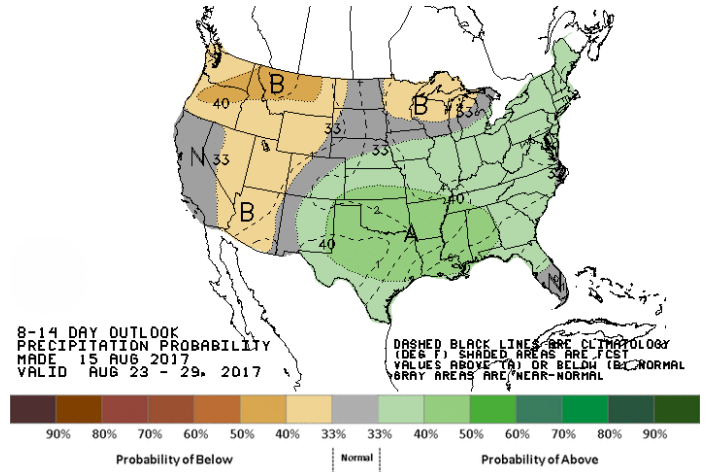
Precipitation



WEATHER – 8 TO 14 DAY OUTLOOK – NOAA  
Temperature



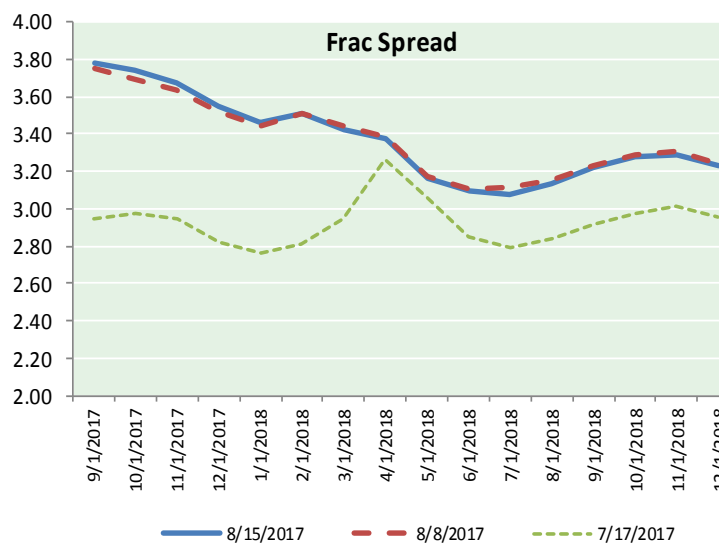
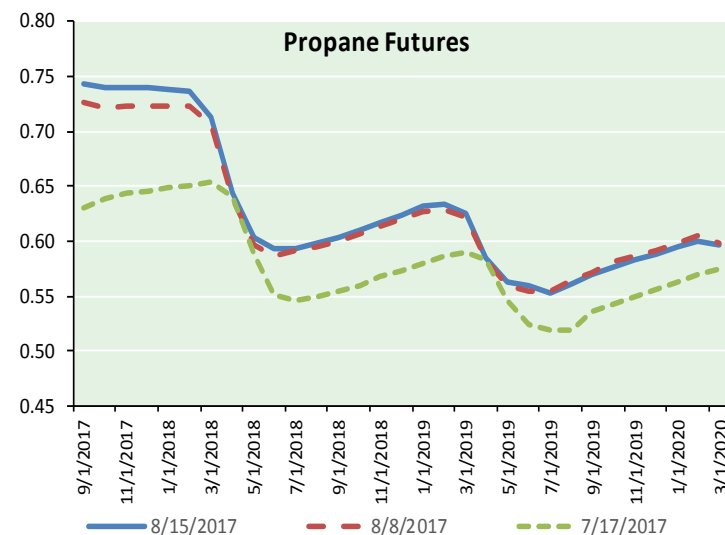
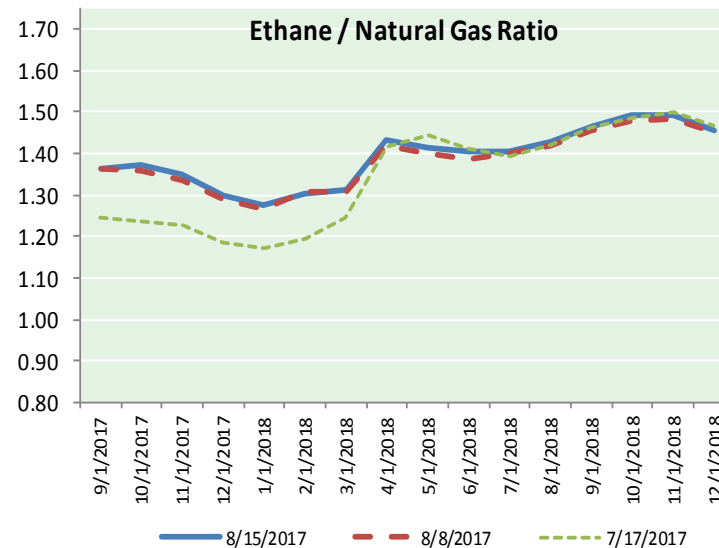
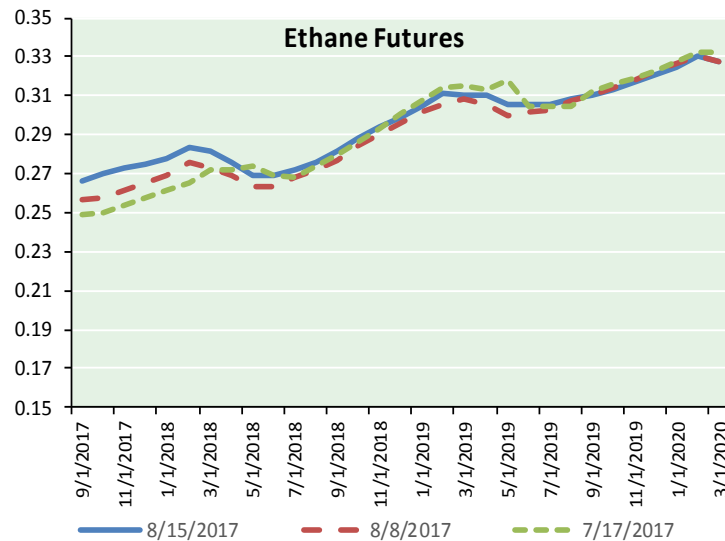
Precipitation



# NATURAL GAS NEWS



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



### CME Future Prices

#### Ethane (C2)

##### Non-LDH— Mont Belvieu

	(cents/gallon)	
Month	Close	Change
Sep-17	0.266	0.000
Oct-17	0.270	0.000
Nov-17	0.273	(0.000)
Dec-17	0.275	(0.001)
Jan-18	0.278	(0.001)
Feb-18	0.284	(0.001)
Mar-18	0.281	(0.001)
Apr-18	0.276	(0.001)
May-18	0.269	0.001
Jun-18	0.269	0.001
Jul-18	0.272	(0.001)
Aug-18	0.276	(0.001)

1YR Strip 0.274 (0.001)

### CME Future Prices

#### Propane (C3)

##### Non-LDH— Mont Belvieu

	(cents/gallon)	
Month	Close	Change
Sep-17	0.744	(0.007)
Oct-17	0.741	(0.012)
Nov-17	0.741	(0.010)
Dec-17	0.740	(0.010)
Jan-18	0.738	(0.010)
Feb-18	0.736	(0.010)
Mar-18	0.714	(0.009)
Apr-18	0.644	(0.005)
May-18	0.603	(0.001)
Jun-18	0.593	(0.002)
Jul-18	0.593	(0.003)
Aug-18	0.598	(0.002)

1YR Strip 0.682 (0.007)

# NATURAL GAS NEWS



## Prompt WTI (CL) Crude

### Daily Sentiment

**NEUTRAL**



RESISTANCE

47.96 & 48.37

SUPPORT

47.08 & 46.61

### FOLLOW US ON TWITTER:



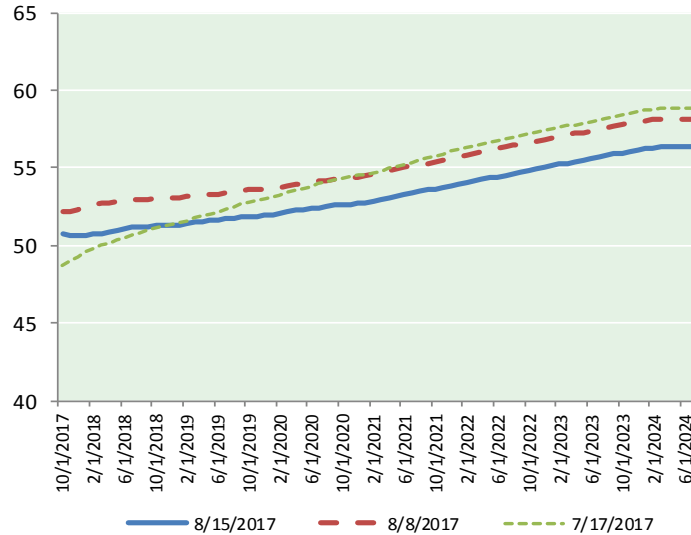
@MPG\_NatGasNews

## NYMEX Brent (BZ)

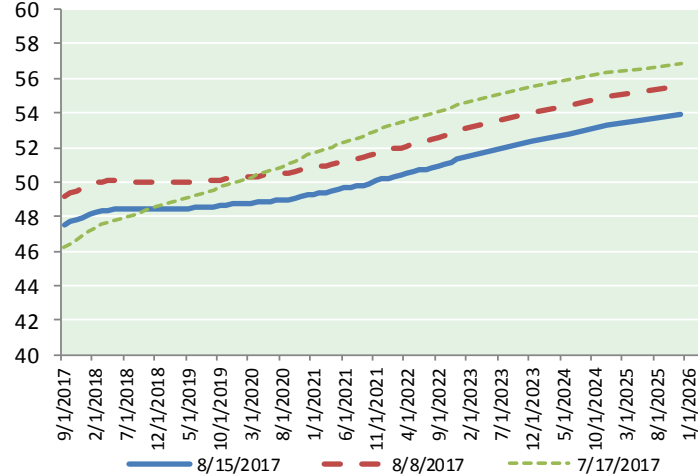
### Futures

Month	Close	Change
Oct-17	50.80	0.07
Nov-17	50.63	0.00
Dec-17	50.62	(0.03)
Jan-18	50.66	(0.08)
Feb-18	50.73	(0.11)
Mar-18	50.80	(0.12)
Apr-18	50.89	(0.11)
May-18	50.98	(0.10)
Jun-18	51.06	(0.09)
Jul-18	51.15	(0.08)
Aug-18	51.21	(0.07)
Sep-18	51.24	(0.05)
Oct-18	51.27	(0.03)
Nov-18	51.28	(0.03)
Dec-18	51.30	(0.02)
Jan-19	51.34	(0.02)
Feb-19	51.41	(0.01)
Mar-19	51.47	0.00
Apr-19	51.56	0.00
May-19	51.60	0.00
Jun-19	51.62	0.01
Jul-19	51.71	0.02
Aug-19	51.77	0.03
Sep-19	51.83	0.03
1YR Strip	50.90	(0.06)
2017	50.68	0.01
5YR Strip	52.40	0.04

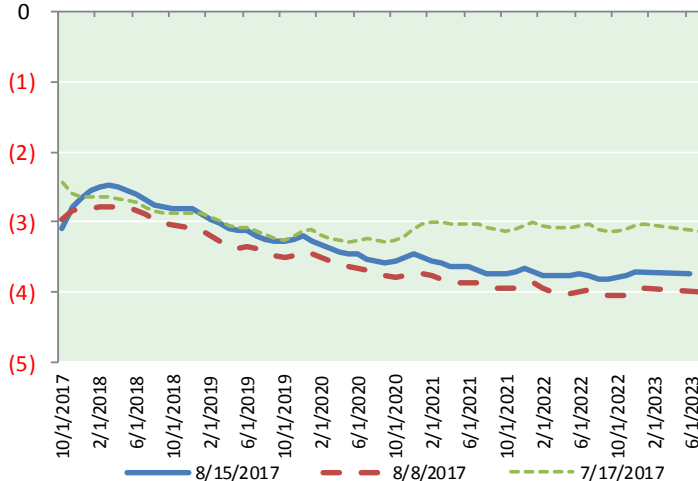
## BRENT CRUDE FORWARD CURVE



## 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)

	Sep-17	Close	Change
Butane	0.889	0.889	(0.003)
Iso-Butane	0.921	0.921	0.001
Nat Gasoline	1.092	1.092	0.000

## NYMEX WTI (CL) Futures

Month	Close	Change
Sep-17	47.55	(0.04)
Oct-17	47.70	(0.03)
Nov-17	47.84	(0.04)
Dec-17	47.96	(0.07)
Jan-18	48.11	(0.09)
Feb-18	48.23	(0.10)
Mar-18	48.32	(0.11)
Apr-18	48.38	(0.12)
May-18	48.43	(0.11)
Jun-18	48.46	(0.10)
Jul-18	48.47	(0.09)
Aug-18	48.46	(0.08)
Sep-18	48.46	(0.07)
Oct-18	48.46	(0.06)
Nov-18	48.46	(0.05)
Dec-18	48.48	(0.04)
Jan-19	48.46	(0.03)
Feb-19	48.45	(0.02)
Mar-19	48.45	(0.01)
Apr-19	48.46	(0.01)
May-19	48.47	0.00
Jun-19	48.50	0.00
Jul-19	48.51	0.01
Aug-19	48.53	0.02
1YR Strip	48.16	(0.08)
2017	47.76	(0.05)
5YR Strip	49.05	0.03