

NATURAL GAS



OCTOBER 3, 2017

Prior Day's NYMEX

Nov-17 Contract (CT)



NYMEX NG Futures

Month	Close	Change
Nov-17	2.916	(0.091)
Dec-17	3.106	(0.075)
Jan-18	3.234	(0.061)
Feb-18	3.240	(0.059)
Mar-18	3.193	(0.056)
Apr-18	2.910	(0.029)
May-18	2.881	(0.023)
Jun-18	2.910	(0.020)
Jul-18	2.936	(0.018)
Aug-18	2.940	(0.016)
Sep-18	2.919	(0.016)
Oct-18	2.941	(0.017)
Nov-18	2.994	(0.015)
Dec-18	3.130	(0.012)
Jan-19	3.216	(0.011)
Feb-19	3.193	(0.013)
Mar-19	3.122	(0.015)
Apr-19	2.748	0.000
May-19	2.711	(0.001)
Jun-19	2.735	(0.001)
Jul-19	2.759	(0.001)
Aug-19	2.765	(0.001)
Sep-19	2.751	(0.001)
Oct-19	2.775	(0.001)
1YR Strip	3.011	(0.040)
2017	3.011	(0.083)
5YR Strip	2.889	(0.005)

IN THE NEWS

Natural Gas Futures Tumble to 3-Week Lows — Investing.com reports: U.S. natural gas futures started the week on a downbeat note on Monday, with prices sliding to their lowest level in around three weeks, as traders reacted to the reality that higher demand for the commodity was coming to an end. Warm high pressure

- **Natural Gas Futures Tumble to 3-Week Lows**
- **Ontario is about to become a natural gas battleground — and the winners will be consumers**

will quickly strengthen and expand east of the Plains this week with widespread highs of upper 60 to near 80°F across the northern U.S. and 80s to locally near 90°F over the southern U.S. Gas futures often reach a seasonal low in October, when mild weather reduces demand, before recovering in the winter, when heating-fuel use peaks. For more on visit investing.com or click the following link <http://bit.ly/2fkXYG1>

Ontario is about to become a natural gas battleground — and the winners will be consumers — The Financial Post reported: Alberta natural gas producers aim to wrestle back market share from their U.S. counterparts in booming eastern Canada, after TransCanada Corp. slashed its tolls by 58 per cent on its pipeline system that sends gas from Empress, Alta. to southern Ontario. TransCanada agreed to cut its tolls from \$1.86 per gigajoule to 77 cents per GJ with 23 shippers, who in turn, committed to ship 1.4 billion cubic feet of natural gas per day on the system for 10 years. The new contracts were signed in March and approved by the National Energy Board on Sept. 21, which led to an immediate drop in Ontario natural gas prices. TransCanada would consider more deals to ship natural gas from Western Canada to the Dawn, Ont. storage hub given the success of its reduced tolling arrangement, company spokesperson Shawn Howard. The cut in toll should also see Ontarians' winter heating bills fall this year as the country's most populous province becomes a battle ground for natural gas competition. For more visitfinancialpost.com or click the following link <http://bit.ly/2xbEbC7>

12 MONTH CANDLESTICK (WEEKLY)



Prompt Natural Gas (NG) Daily Sentiment

BEARISH



RESISTANCE
3.00 & 3.08
SUPPORT
2.86 & 2.81

Trading Summary

NATURAL GAS

Futures	Close	Change
NG	2.916	(0.091)
Volume	509,220	(487,960)
Open Int.	1,373,742	39,833

CRUDE AND GASOLINE

Futures	Close	Change
Crude	50.58	(1.09)
RBOB	1.5553	(0.0357)
Crude/NG	17.35	0.16

METALS

Futures	Close	Change
Gold	1,272.70	(2.80)

EQUITIES

Exchange	Close	Change
DOW	22,557.60	152.51
S&P 500	2,529.12	9.76

CURRENCY

Currency	Close	Change
EUR/USD	1.1732	(0.0082)
USD/CND	1.2504	(0.0006)

Contact Us



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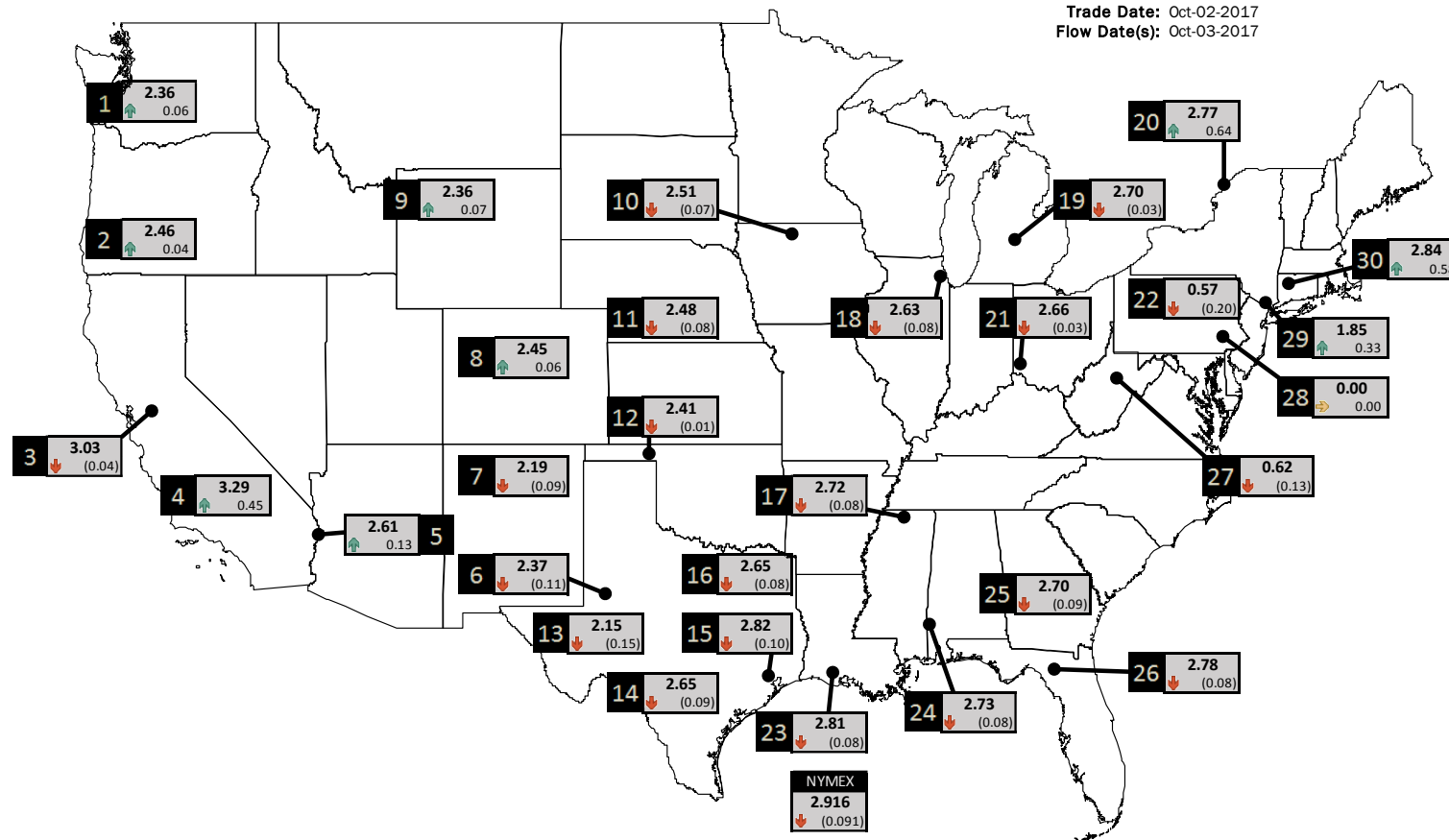
www.mansfield.energy
info@mansfieldoil.com

Phone: (800) 695-6626



NATURAL GAS NEWS

PHYSICAL SPOT NATURAL GAS PRICE MAP



ID	DAILY INDEX	PRICE	CHANGE
1	Stanfield	2.36	0.06
2	Malin	2.46	0.04
3	PG&E - Citygate	3.03	(0.04)
4	SoCal-Citygate	3.29	0.45
5	SoCal Border	2.61	0.13
6	Waha	2.37	(0.11)
7	EPSJ Blanco Pool	2.19	(0.09)
8	Opal Plant Tailgate	2.45	0.06
9	NWP-Wyoming	2.36	0.07
10	Ventura	2.51	(0.07)

ID	DAILY INDEX	PRICE	CHANGE
11	NGPL-Midcont Pool	2.48	(0.08)
12	Panhandle	2.41	(0.01)
13	EP-Permian	2.15	(0.15)
14	TGP-ZO	2.65	(0.09)
15	Houston Ship Channel	2.82	(0.10)
16	NGPL-TXOK	2.65	(0.08)
17	TETCO-M1 30	2.72	(0.08)
18	Chicago Citygates	2.63	(0.08)
19	Michcon	2.70	(0.03)
20	Iroquois (into)	2.77	0.64

ID	DAILY INDEX	PRICE	CHANGE
21	REX E-ANR	2.66	(0.03)
22	Leidy-Transco	0.57	(0.20)
23	Henry	2.81	(0.08)
24	Transco-85	2.73	(0.08)
25	Sonat-ZO South	2.70	(0.09)
26	FGT-Z3	2.78	(0.08)
27	Dominion-South	0.62	(0.13)
28	Transco-Z6 (non-NY)	0.00	0.00
29	Transco-Z6 (NY)	1.85	0.33
30	Iroquois-Z2	2.84	0.58

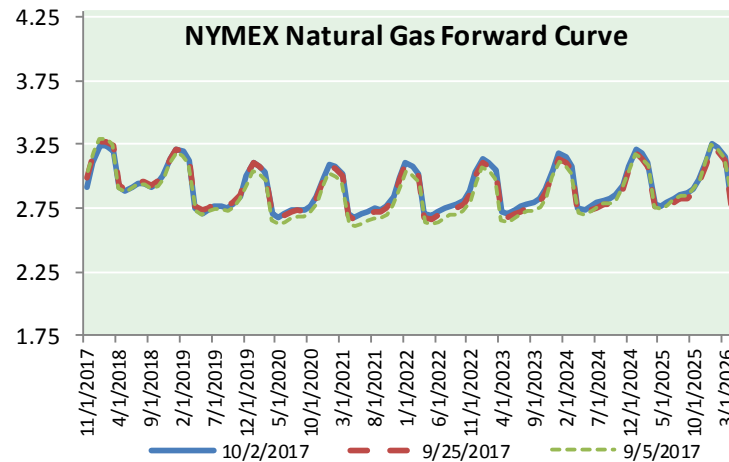
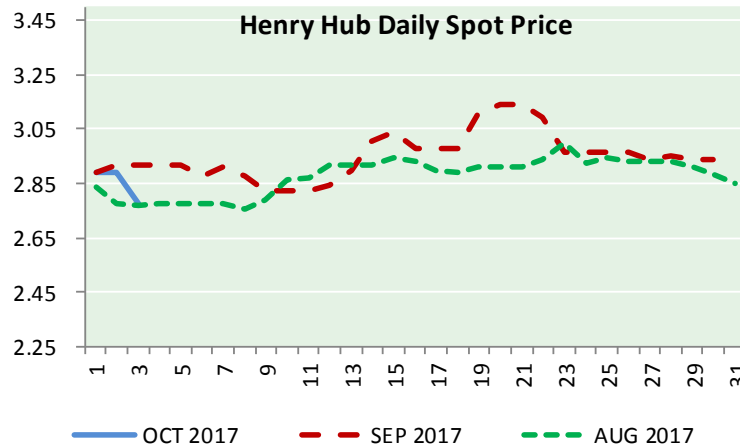
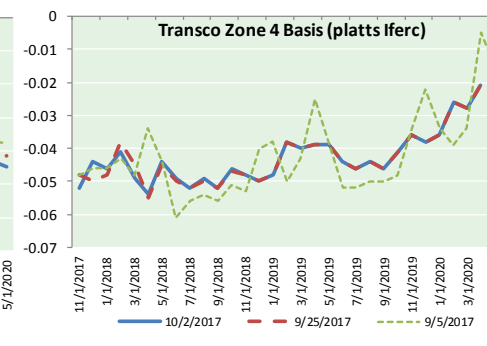
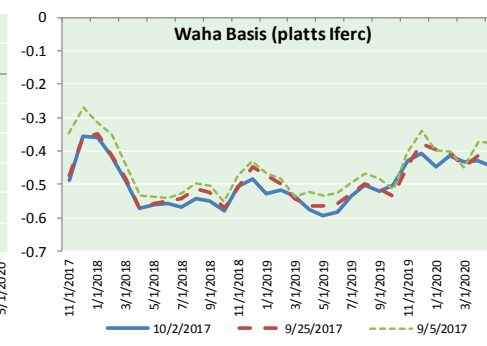
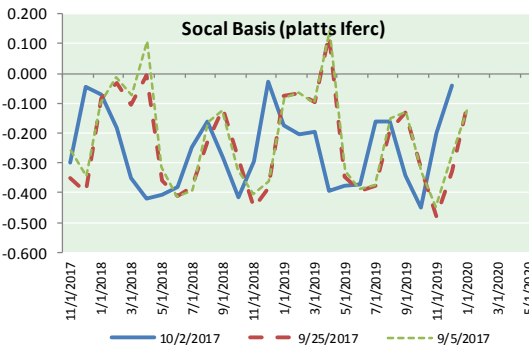
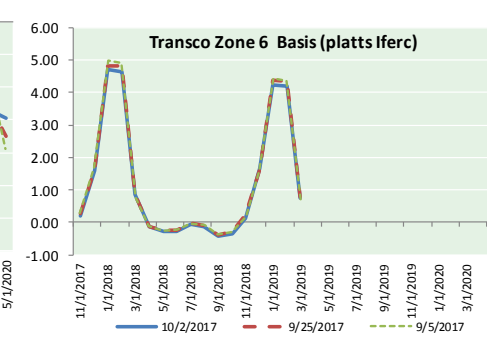
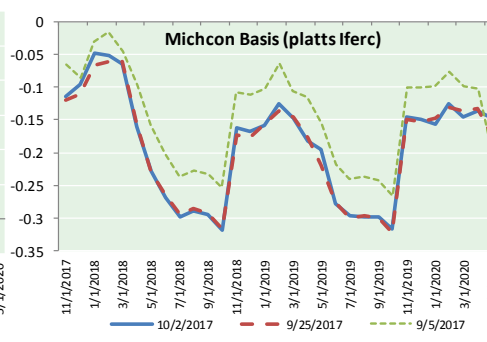
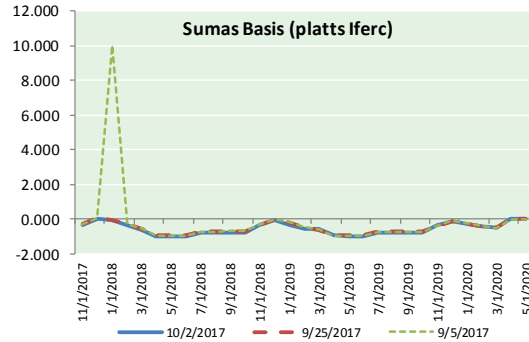


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NATURAL GAS NEWS

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



CME NG Option Prices

ATM Call

Month	Strike	Close	Imp Vol
Nov-17	2.900	0.107	33.7
Dec-17	3.100	0.168	33.7
Jan-18	3.250	0.240	39.4
Feb-18	3.250	0.311	43.1
Mar-18	3.200	0.357	45.0
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			
Jan-19			
Feb-19			
Mar-19			

CME NG Option Prices

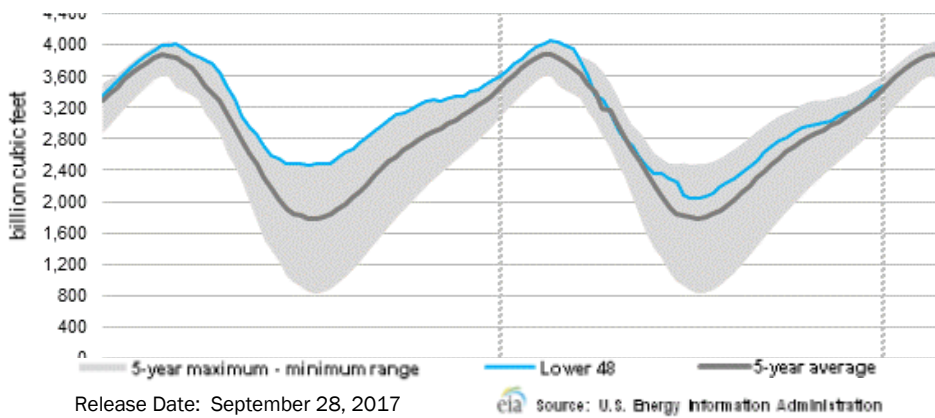
ATM Put

Month	Strike	Close	Imp Vol
Nov-17	2.900	0.091	33.7
Dec-17	3.100	0.168	35.6
Jan-18	3.250	0.253	39.4
Feb-18	3.250	0.320	43.1
Mar-18	3.200	0.364	45.0
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			
Jan-19			
Feb-19			
Mar-19			



NATURAL GAS NEWS

WEEKLY GAS IN UNDERGROUND STORAGE WITH 5-YR RANGE



Rig Count

Report Date: September 29, 2017

	Total	Change
US -	940	+5
CN -	213	(7)

EIA Storage History for 39th Week of Year (Due to Report Oct 5)

Year	Week Ending	BCF
2013	Sep 27, 2013	+102
2014	Sep 26, 2014	+111
2015	Sep 25, 2015	+96
2016	Sep 23, 2016	+49

ESTIMATE - +47

Total Working Gas In Storage

3,466 BCF

+58 BCF (LAST WEEK)
 (127) BCF (LAST YEAR)
 +41 BCF (5-YR AVG)

U.S. Natural Gas Supply Gas Week 9/21 - 9/27

Average daily values (BCF/d):
Last Year (BCF/d)
 Dry Production - +69.9
 Total Supply - +75.9
Last Week (BCF/d)
 Dry Production - +74.5
 Total Supply - +80.2

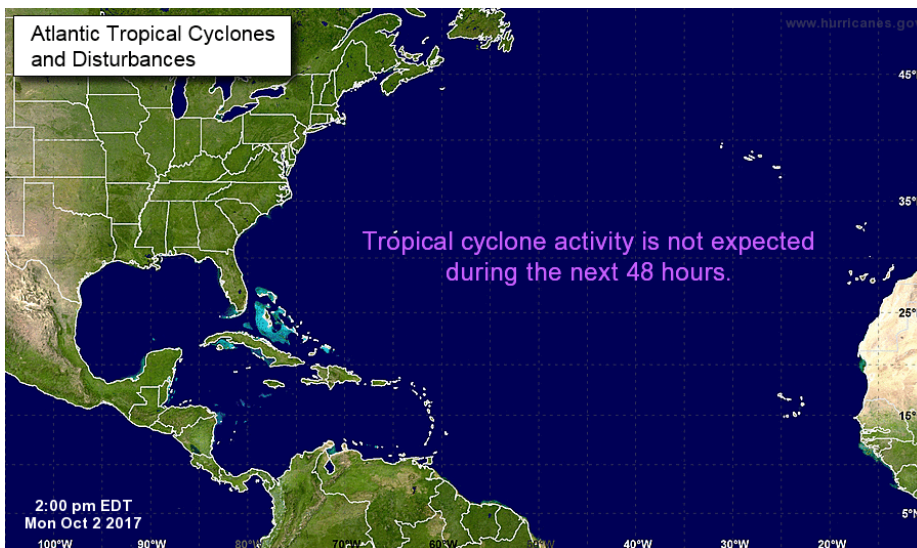
[NEXT REPORT ON OCT 5]

U.S. Natural Gas Demand Gas Week 9/21 - 9/27

Average daily values (BCF/d):
Last Year (BCF/d)
 Power - +30.9
 Total Demand - +66.9
Last Week (BCF/d)
 Power - +31.2
 Total Demand - +71.2

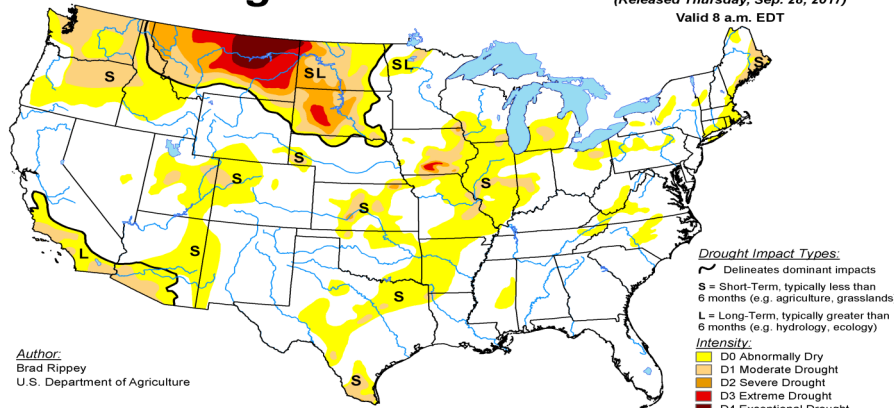
[NEXT REPORT ON OCT 5]

TROPICAL STORM ACTIVITY- ATLANTIC

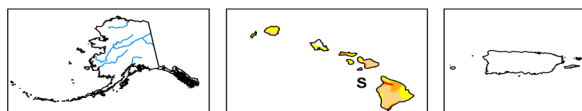


U.S. Drought Monitor

September 26, 2017
 (Released Thursday, Sep. 28, 2017)
 Valid 8 a.m. EDT



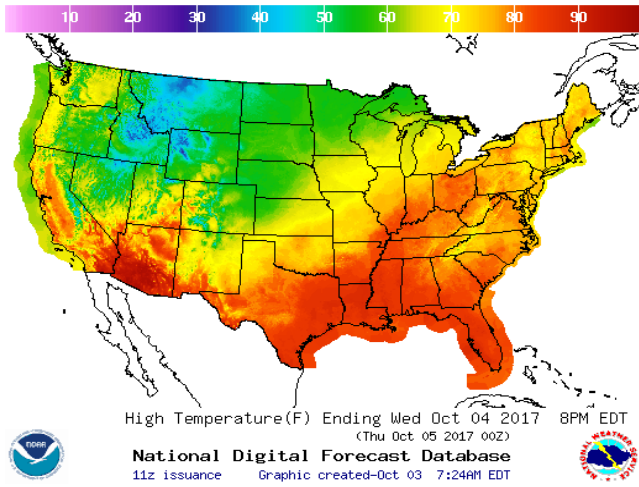
Author:
 Brad Rippey
 U.S. Department of Agriculture



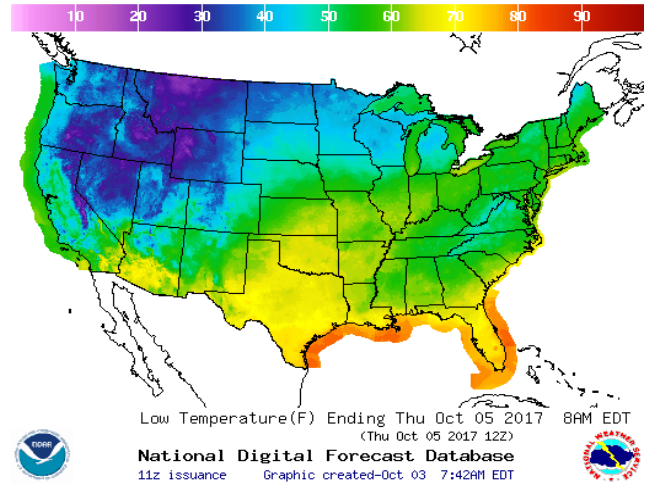
USDA NDMC NOAA
<http://droughtmonitor.unl.edu/>

WEATHER – HIGH / LOW TEMPERATURE TOMORROW

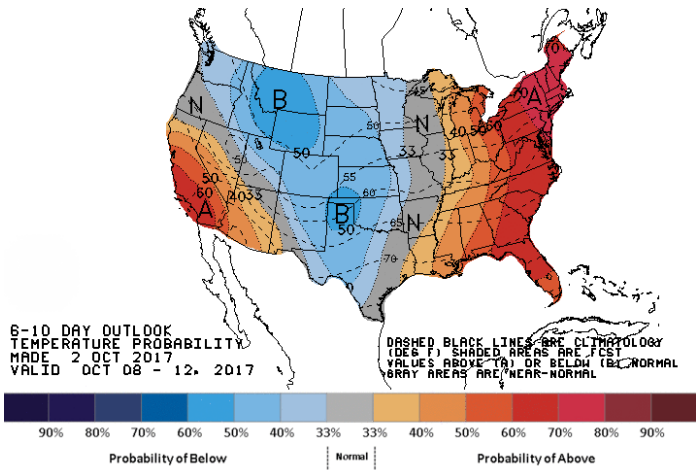
HIGH Temperature



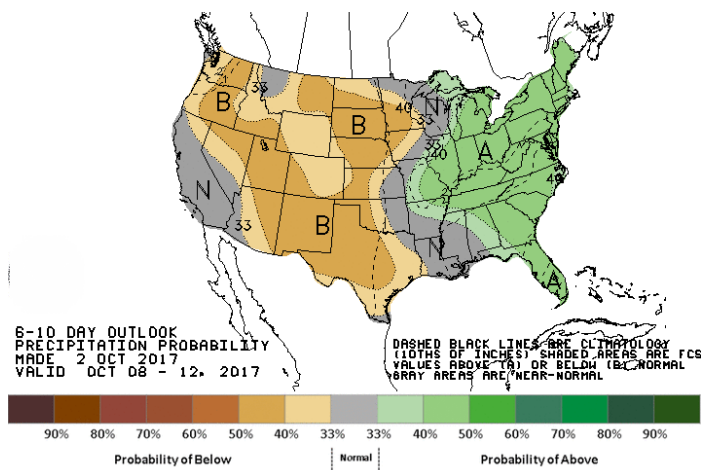
LOW Temperature



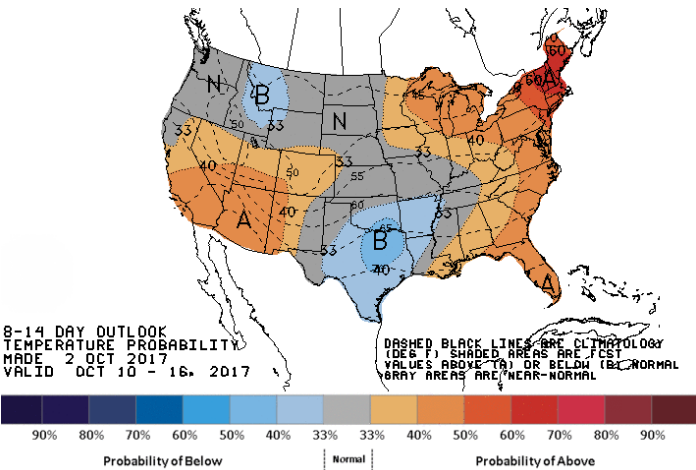
WEATHER – 6 TO 10 DAY OUTLOOK – NOAA
Temperature



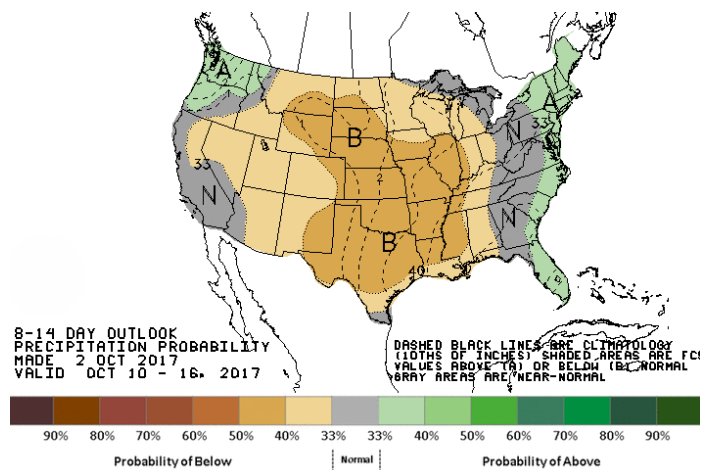
Precipitation



WEATHER – 8 TO 14 DAY OUTLOOK – NOAA
Temperature

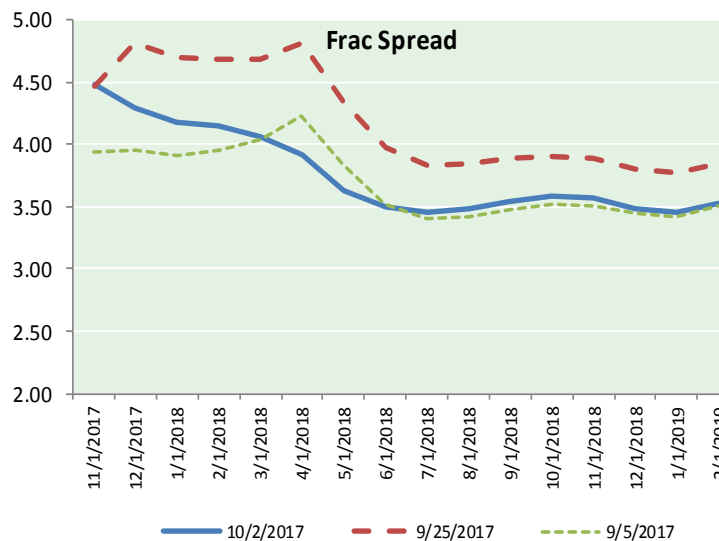
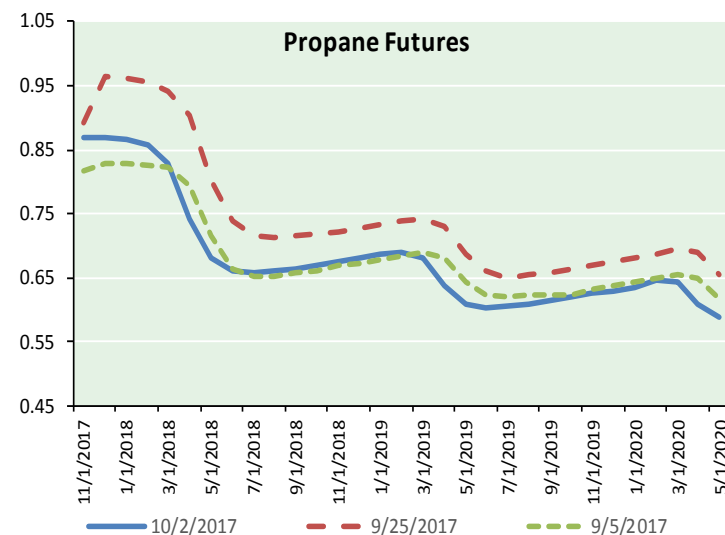
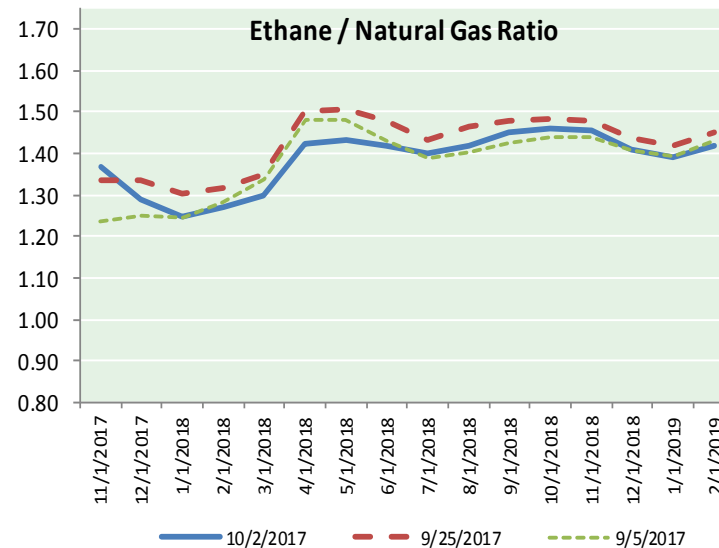
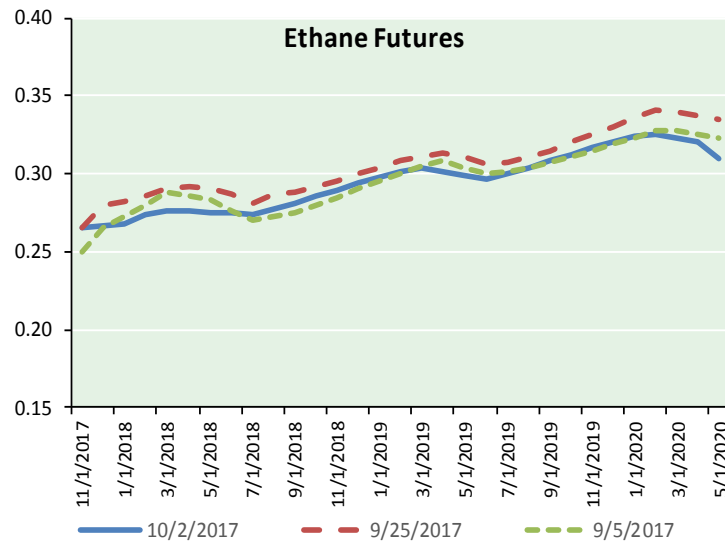


Precipitation





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



CME Future Prices

Ethane (C2)

Non-LDH— Mont Belvieu

Month	Close	Change
Nov-17	0.265	(0.000)
Dec-17	0.266	(0.009)
Jan-18	0.268	(0.008)
Feb-18	0.273	(0.005)
Mar-18	0.276	(0.009)
Apr-18	0.276	(0.011)
May-18	0.274	(0.011)
Jun-18	0.274	(0.007)
Jul-18	0.274	(0.008)
Aug-18	0.277	(0.004)
Sep-18	0.281	(0.003)
Oct-18	0.285	(0.002)

1YR Strip 0.274 (0.006)

CME Future Prices

Propane (C3)

Non-LDH— Mont Belvieu

Month	Close	Change
Nov-17	0.870	(0.017)
Dec-17	0.869	(0.034)
Jan-18	0.868	(0.037)
Feb-18	0.856	(0.045)
Mar-18	0.829	(0.060)
Apr-18	0.743	(0.116)
May-18	0.680	(0.087)
Jun-18	0.662	(0.043)
Jul-18	0.658	(0.028)
Aug-18	0.661	(0.021)
Sep-18	0.665	(0.018)
Oct-18	0.670	(0.017)

1YR Strip 0.753 (0.044)

NATURAL GAS NEWS



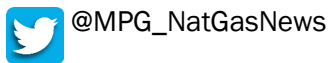
Prompt WTI (CL) Crude Daily Sentiment

BULLISH



RESISTANCE
51.50 & 52.43
SUPPORT
49.86 & 49.15

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NYMEX Brent (BZ)

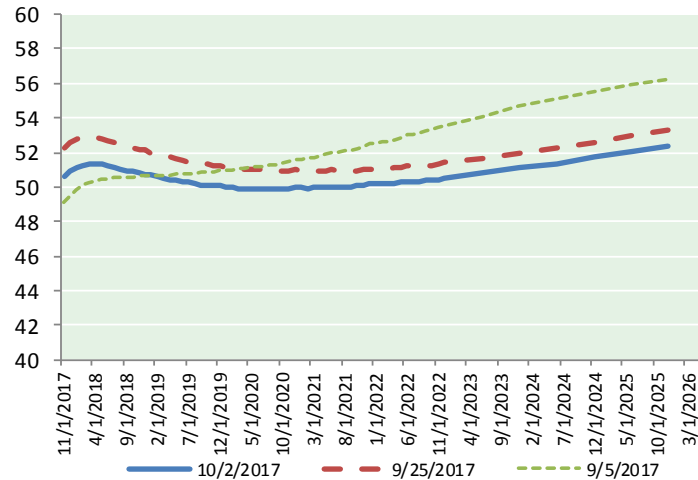
Futures

Month	Close	Change
Dec-17	56.12	(0.67)
Jan-18	55.89	(0.70)
Feb-18	55.71	(0.72)
Mar-18	55.58	(0.73)
Apr-18	55.49	(0.72)
May-18	55.39	(0.72)
Jun-18	55.27	(0.72)
Jul-18	55.18	(0.71)
Aug-18	55.07	(0.72)
Sep-18	54.95	(0.72)
Oct-18	54.85	(0.73)
Nov-18	54.77	(0.73)
Dec-18	54.69	(0.74)
Jan-19	54.62	(0.74)
Feb-19	54.59	(0.74)
Mar-19	54.55	(0.74)
Apr-19	54.55	(0.74)
May-19	54.50	(0.73)
Jun-19	54.41	(0.73)
Jul-19	54.40	(0.73)
Aug-19	54.36	(0.72)
Sep-19	54.32	(0.72)
Oct-19	54.32	(0.72)
Nov-19	54.25	(0.72)
1YR Strip 2017	55.36	(0.72)
5YR Strip	54.75	(0.65)

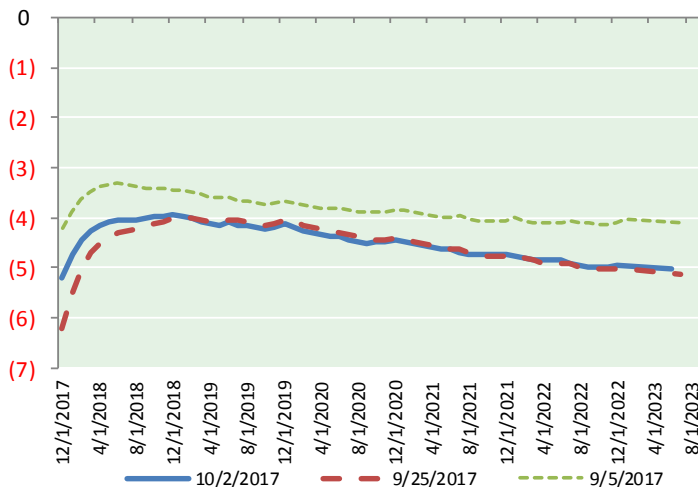
BRENT CRUDE FORWARD CURVE



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)

	Nov-17	Close	Change
Butane		1.016	(0.003)
Iso-Butane		1.035	0.017
Nat Gasoline		1.180	0.012

NYMEX WTI (CL) Futures

Month	Close	Change
Nov-17	50.58	(1.09)
Dec-17	50.90	(1.05)
Jan-18	51.14	(1.00)
Feb-18	51.27	(0.95)
Mar-18	51.33	(0.91)
Apr-18	51.35	(0.86)
May-18	51.31	(0.83)
Jun-18	51.24	(0.81)
Jul-18	51.14	(0.79)
Aug-18	51.04	(0.78)
Sep-18	50.95	(0.78)
Oct-18	50.87	(0.78)
Nov-18	50.81	(0.77)
Dec-18	50.76	(0.76)
Jan-19	50.66	(0.76)
Feb-19	50.57	(0.76)
Mar-19	50.48	(0.76)
Apr-19	50.42	(0.74)
May-19	50.36	(0.73)
Jun-19	50.33	(0.72)
Jul-19	50.26	(0.71)
Aug-19	50.19	(0.70)
Sep-19	50.13	(0.70)
Oct-19	50.09	(0.69)
1YR Strip 2017	51.09	(0.89)
5YR Strip	50.33	(0.69)