

### 19 October 2020

	Cı	urrent	Δ from YD	Δ from 7D Avg	
Nat Gas Prompt	\$	2.75	<b>\$</b> (0.02)	<b>\$</b> (0.03)	

	Current	t Δ from YD	Δ fron Av	
WTI Prompt	\$ 40.8	\$9 📤 \$ 0.01	<b>\$</b>	0.3

	Current	Δ from YD	Δ from 7D Avg
Brent Prompt	\$ 42.9	1 • \$ (0.02)	<b>\$</b> 0.1

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00z GWDD Change

# Cooler Change

# Warmer Change

ECMWF Ensemble 00z	1-5 Day	6-10 Day	11-15 Day	Total
12 Hr Chg	-0.4	1.2	0.4	1.2
24 Hr Chg	0.5	3.6	1.8	5.9
GFS Ensemble 00z	1-5 Day	6-10 Day	11-15 Day	Total
GFS Ensemble 00z 12 Hr Chg	1-5 Day -0.1	6-10 Day 4.7	11-15 Day 3.1	Total 7.7

	Current	Δ from YD	Δ from 7D Avg
US Dry Production	88.6	<b>-</b> 0.30	<b>a</b> 0.65

	Current	Δ from YD	Δ from 7D Avg
US ResComm	18.3	<b>▼</b> -0.21	<b>2.59</b>

	Current	Δ from YD	Δ from 7D Avg		
Net LNG Exports	7.9	<b>0.44</b>	<b>a</b> 0.23		

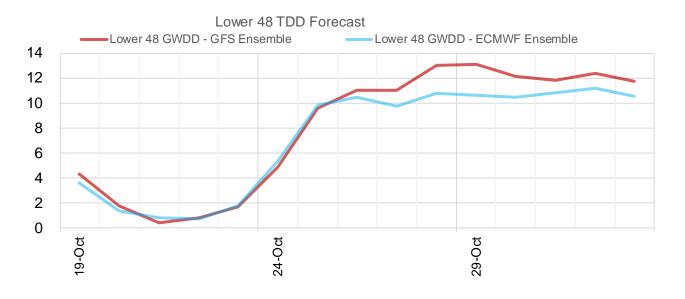
	Current	Δ from YD	Δ from 7D Avg
US Power Burns	28.6	<b>2.17</b>	<b>0.09</b>

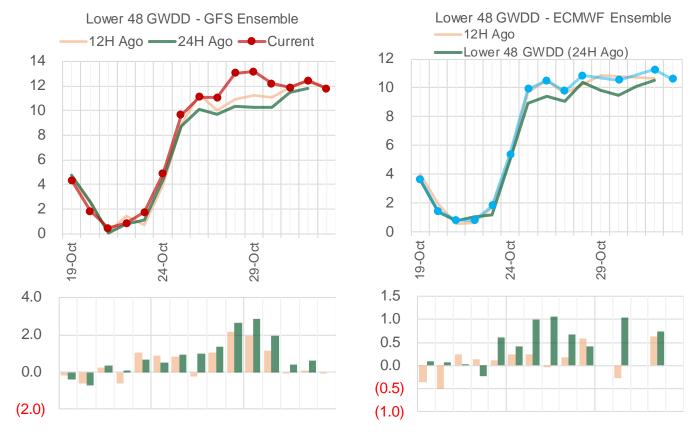
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	3.3	<b>a</b> 0.10	▼ -0.32

	Current	Δ from	YD	Δf	rom 7D Avg
Mexican Exports	6.1	<b>a</b> 0.1	3	•	-0.16



### Short-term Weather Model Outlooks (00z)





Source: WSI, Bloomberg



## Lower 48 Component Models

#### **Daily Balances**

	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	DoD	vs.7D
Lower 48 Dry Production	86.8	87.8	88.5	88.9	89.1	88.9	88.6	▼-0.3	<b>0.2</b>
Canadian Imports	4.2	3.7	3.8	3.3	3.3	3.3	3.3	<b>0.1</b>	▼-0.2
L48 Power	30.4	29.3	29.6	27.8	25.0	26.5	28.6	<b>2.2</b>	<b>0.5</b>
L48 Residential & Commercial	13.5	12.5	14.7	19.9	18.9	18.5	18.3	▼-0.2	<b>2.0</b>
L48 Industrial	22.4	22.2	22.4	22.6	22.4	22.2	21.8	<b>-</b> 0.4	<b>▼</b> -0.5
L48 Lease and Plant Fuel	4.8	4.8	4.9	4.9	4.9	4.9	4.9	▼ 0.0	<b>0.0</b>
L48 Pipeline Distribution	2.1	2.0	2.2	2.3	2.2	2.2	2.3	<b>0.1</b>	<b>0.1</b>
L48 Regional Gas Consumption	73.2	70.9	73.7	77.5	73.4	74.3	75.9	<b>1.7</b>	<b>2.1</b>
Net LNG Delivered	7.54	7.86	7.80	7.95	7.86	7.50	7.94	<b>0.4</b>	<b>0.2</b>
Total Mexican Exports	6.4	6.4	6.3	6.4	6.2	6.0	6.1	<b>0.1</b>	▼-0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	3.8	6.3	4.5	0.5	4.9	4.4	1.9		

#### **EIA Storage Week Balances**

	11-Sep	18-Sep	25-Sep	2-Oct	9-Oct	16-Oct	WoW	vs. 4W
Lower 48 Dry Production	89.0	87.8	86.9	87.2	87.2	85.8	▼-1.4	▼-1.5
Canadian Imports	3.8	3.8	3.6	3.9	4.5	4.0	▼ -0.5	<b>▲ 0.1</b>
L48 Power	35.3	33.5	30.8	30.7	30.7	30.0	▼-0.7	<b>▼</b> -1.4
L48 Residential & Commercial	8.4	8.0	9.9	9.5	13.6	11.5	<b>▼</b> -2.0	<b>1.3</b>
L48 Industrial	19.7	21.3	21.1	22.2	21.6	21.9	<b>0.3</b>	<b>0.4</b>
L48 Lease and Plant Fuel	4.9	4.8	4.8	4.8	4.8	4.7	▼ -0.1	<b>▼</b> -0.1
L48 Pipeline Distribution	2.2	2.1	2.0	2.0	2.2	2.0	▼ -0.1	▼ 0.0
L48 Regional Gas Consumption	70.5	69.7	68.6	69.1	72.9	70.2	▼ -2.7	<b>0.2</b>
Net LNG Exports	5.2	7.3	5.8	6.8	7.5	6.9	▼ -0.6	▲ 0.0
Total Mexican Exports	6.4	6.2	6.4	6.3	6.2	6.2	▲ 0.0	▼-0.1
Implied Daily Storage Activity	10.8	8.3	9.6	8.9	5.1	6.5	1.3	
EIA Reported Daily Storage Activity	12.7	9.4	10.9	10.7	6.6			
Daily Model Error	-1.9	-1.1	-1.2	-1.8	-1.4			

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monany Zalances	2Yr Ago	LY					MTD		
	Oct-18	Oct-19	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	MoM	vs. LY
Lower 48 Dry Production	86.7	95.0	86.6	87.8	87.7	87.6	87.0	▼-0.6	▼ -7.9
Canadian Imports	4.7	4.6	4.0	4.4	4.9	3.8	4.0	<b>0.2</b>	▼ -0.6
L48 Power	28.8	30.8	35.0	43.8	40.7	33.2	29.7	▼-3.6	<b>▼</b> -1.1
L48 Residential & Commercial	16.1	15.2	8.8	8.0	7.7	8.7	13.9	<b>5.2</b>	<b>▼</b> -1.3
L48 Industrial	22.6	24.0	19.2	19.3	20.6	21.0	21.9	<b>0.9</b>	<b>▼</b> -2.1
L48 Lease and Plant Fuel	4.9	5.2	4.8	4.9	4.8	4.8	4.8	▼ 0.0	▼ -0.4
L48 Pipeline Distribution	2.1	2.3	2.2	2.4	2.3	2.1	2.1	<b>0.1</b>	▼ -0.1
L48 Regional Gas Consumption	74.5	77.4	70.1	78.4	76.1	69.8	72.4	<b>2.6</b>	▼ -5.1
Net LNG Exports	3.3	6.7	4.0	3.3	4.0	5.9	7.3	<b>1.4</b>	<b>0.6</b>
Total Mexican Exports	5.0	5.5	5.7	6.1	6.3	6.4	6.2	▼-0.2	▲ 0.7
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	8.6	10.0	10.9	4.4	6.2	9.3	5.2		

Source: Bloomberg, analytix.ai



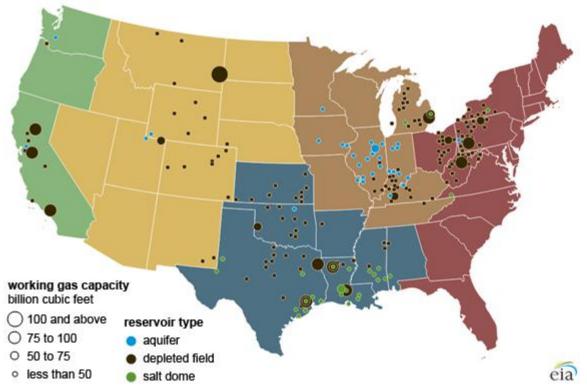
## Regional S/D Models Storage Projection

Week Ending 16-Oct

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	6.2	1.7	7.9	55
East	0.5	1.6	2.1	15
Midwest	3.2	1.2	4.4	31
Mountain	3.6	-3.2	0.4	3
South Central	-1.5	2.2	0.7	5
Pacific	0.4	-0.1	0.3	2

<sup>\*</sup>Adjustment Factor is calcuated based on historical regional deltas

### U.S. underground natural gas storage facilities by type (July 2015)





### Weather Model Storage Projection

Next repor	t and beyond
	Week Storage
Week Ending	Projection
23-Oct	94
30-Oct	50
06-Nov	27

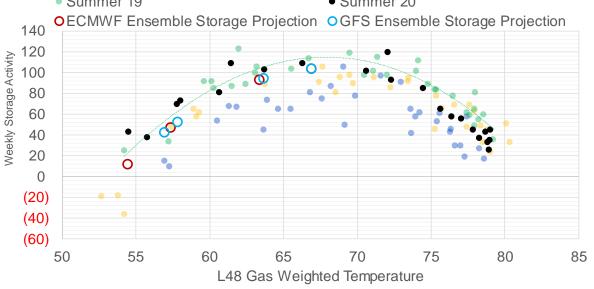
#### Weather Storage Model - Next 4 Week Forecast



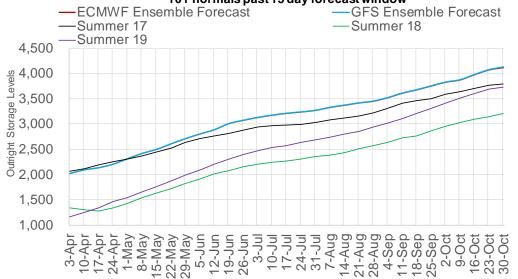
Summer 18

Summer 19

• Summer 20

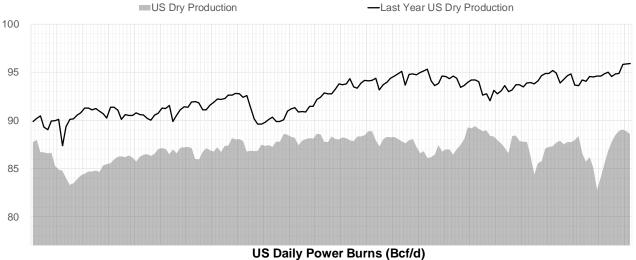


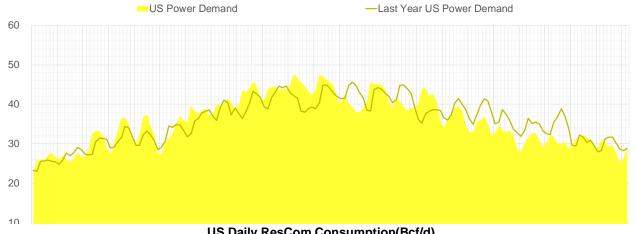
#### Weather Based End of Winter Projection (Bcf) 10Y normals past 15 day forecast window



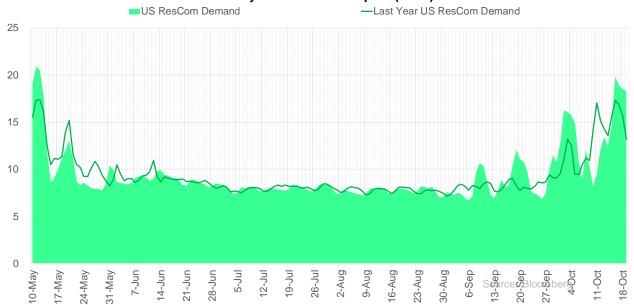


# Supply – Demand Trends US Dry Natural Gas Production (Bcf/d)



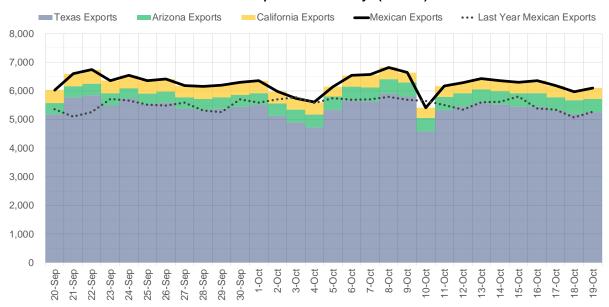


#### US Daily ResCom Consumption(Bcf/d)

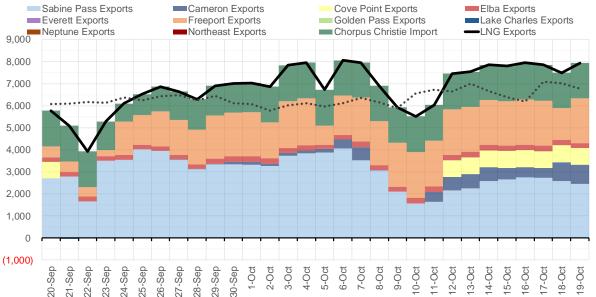




#### Mexican Exports - Last 30 days (MMcf/d)



#### Net LNG Exports - Last 30 days (MMcf/d)



Source: Bloomberg



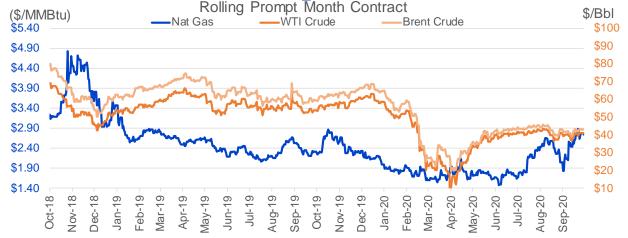
# Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

MONTH  11 11 11 10 10 11 11 11 11 11 11 12 11 11 14 4 4 12 12 11 11 11 11 11 11 11 11 11 11 11	YEAR  2020 2020 2020 2021 2021 2020 2020 20	PUT/CALL  C C C C C P P P C C C C P C C C P C C C P C C P C C P C C P C C P C C P C C P C C P C C P C C P C C P C C C P C C P C C C P C C P C C P C C P C C C P C C P C C C P C C P C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C P C C C C P C C C C P C C C C P C C C C P C C C C P C C C C P C C C C C C P C C C C C P C	3.25 3.50 3.00 4.00 3.25 2.50 1.85 2.00 2.40 6.00 5.00 3.55 2.25 5.00 2.75 3.50 3.75 5.00 2.60	VOL  18055 15282 14586 12650 9150 8410 6122 5941 4970 3827 3483 3400 3187 3150 3062 2961 2808	MONTH  11 3 11 12 3 11 3 11 3 12 4 1 3 3 11 11	YEAR  2020 2021 2020 2020 2021 2020 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021	PPCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	2.0 3.2 2.0 6.0 3.5 5.0 4.5 3.2 2.5 5.0 3.5
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10 11 11 11 11 13 2 11 11 10 11 12 12 11 11 4 4 4 12 12 11 11 1 1 1	2021 2020 2020 2020 2020 2021 2021 2020 2020 2021 2020 2020 2020 2020 2021 2020 2020 2021 2020 2020 2020 2021 2020 2020 2020	C C P P P C C C P C C C P C	3.25 2.50 1.85 2.00 2.40 6.00 5.00 3.55 2.25 5.00 2.75 3.50 3.75 5.00 2.60	9150 8410 6122 5941 4970 3827 3483 3400 3187 3150 3062 2961 2808	3 11 3 1 3 12 4 1 3 3 11	2021 2020 2021 2021 2021 2020 2021 2021	0 0 0 0 P 0 0 0 0	6.00 3.50 5.00 4.50 3.25 2.50 5.00 3.50 7.00
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11 1 12 2 1 11 11 1 3 11 11 11 11	2020	Р	3.00	2376	3	2021	С	3.50
1 12 2 1 11 11 1 3 11 11 11 11	2020	С	3.75	2353	1	2021	С	5.00
1 12 2 1 11 11 1 3 11 11 11 11	2020	С	4.00	2305	12	2020	С	4.50
12 2 1 11 11 1 1 3 11 11 11 11	2021	Č	4.50	2251	4	2021	C	4.00
2 1 11 11 1 3 11 11 11 11	2020	P	2.70	2248	1	2021	Р	2.25
1 11 11 1 3 11 11 11	2021	Р	2.50	2150	12	2020	C	3.75
11 11 1 3 11 11 11 11	2021	C	3.50	2100	11	2020	С	2.75
11 1 3 11 11 11 11	2021	C	4.00	2100	1	2021	Р	2.50
1 3 11 11 11 11	2020	C	2.80	2057	2	2021	Р	2.25
3 11 11 11 11 1	2020	C	4.00	1953	1	2021	С	3.00
11 11 11 11 11					2	2021	С	3.50
11 11 11 1	2021	С	4.00	1845	12	2020	С	3.50
11 11 1	2021	С	5.00	1800	1	2021	С	3.75
11 1	2020	P	1.90	1753	2	2021	Р	2.50
1	2020	P	2.65	1732	11	2020	Р	2.50
	2020	С	3.30	1678	11	2020	Р	2.65
	2022	С	4.00	1650	3	2021	Р	2.50
12	2020	Р	2.50	1585	12	2020	С	5.00
3	2021	С	5.00	1562	8	2021	С	4.00
3	2021	Р	2.50	1520	12	2020	Р	1.50
11	2020	С	2.75	1516	1	2021	С	7.00
12	2020	С	4.00	1400	4	2021	С	3.00
1	2020	Р	2.50	1383	4	2021	P	2.00
11		Р	2.30	1280	2	2021	C	4.00
11	2021	Р	2.15	1227	5	2021	Ċ	3.00
2	2021 2021		5.00	1200	11	2020	P	2.20
11	2021 2021 2020	C	2.50	1200	1	2021		E: CME, ICI

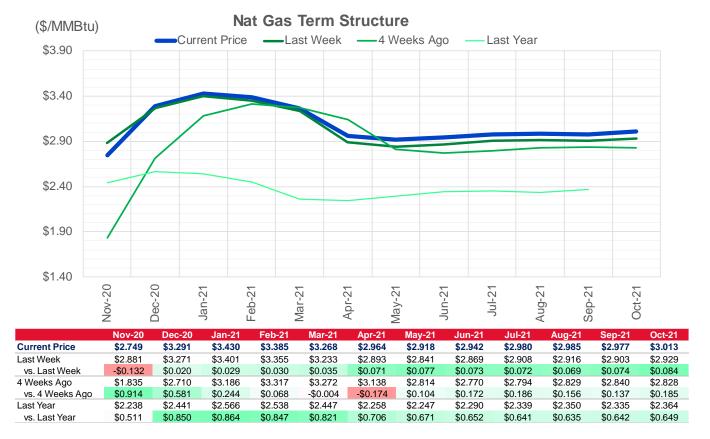


### Nat Gas Futures Open Interest

		CME	and ICE Co.	mhined			
CME Henry	Hub Futures (1						alent (10,000 MM
	Current	Prior		FOR JUNE 26	Current	Prior	Daily Change
NOV 20	87229	99806	-12577	NOV 20	71101	72702	-1601.75
DEC 20	169200	166634	2566	DEC 20	77022	75050	1972
JAN 21	203419	202938	481	JAN 21	89704	89727	-22.75
FEB 21	83483	82760	723	FEB 21	64429	64058	371
MAR 21	135445	135488	-43	MAR 21	84121	84393	-271.5
APR 21	85716	88717	-3001	APR 21	69376	70170	-793.5
MAY 21	46796	44533	2263	MAY 21	60814	60880	-65.75
JUN 21	33872	33023	849	JUN 21	55956	55555	400.75
JUL 21	26363	26111	252	JUL 21	58035	57561	473.5
AUG 21	26502	26552	-50	AUG 21	60408	60326	82
SEP 21	38050	37379	671	SEP 21	56119	55714	404.75
OCT 21	89345	87377	1968	OCT 21	74167	72456	1710.5
NOV 21	32943	32461	482	NOV 21	49925	48702	1223.25
DEC 21	27895	27449	446	DEC 21	46708	46370	338
JAN 22	30114	29111	1003	JAN 22	42801	42316	485.25
FEB 22	17319	16888	431	FEB 22	35031	34656	375.75
MAR 22	19295	19091	204	MAR 22	38077	37789	287.75
APR 22	21010	21653	-643	APR 22	36179	35905	274
MAY 22	9028	8320	708	MAY 22	28279	27984	294.5
JUN 22	4798	4795	3	JUN 22	27009	26791	217.5
JUL 22	4089	3873	216	JUL 22	28596	28370	226.5
AUG 22	2908	2724	184	AUG 22	27014	26760	254
SEP 22	2655	2533	122	SEP 22	26687	25960	727.25
OCT 22	3848	4018	-170	OCT 22	29388	28962	425.5
NOV 22	3549	3295	254	NOV 22	25006	24756	250
DEC 22	3503	3289	214	DEC 22	29116	28428	688
JAN 23	3004	3003	1	JAN 23	13974	13992	-18.25
FEB 23	908	908	0	FEB 23	13166	13182	-16
MAR 23	835	831	4	MAR 23	13501	13444	57
APR 23	2457	2447	10	APR 23	12450	12460	-9.75
		Do	lling Drompt	Month Control	<b>~</b> 4		







		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	1.85	3.64	1.79
TETCO M3	\$/MMBtu	1.45	2.50	1.05
FGT Zone 3	\$/MMBtu	1.30	2.86	1.56
Zone 6 NY	\$/MMBtu	1.30	2.66	1.36
Chicago Citygate	\$/MMBtu	2.14	2.68	0.54
Michcon	\$/MMBtu	1.96	2.62	0.66
Columbia TCO Pool	\$/MMBtu	1.78	2.42	0.64
Ventura	\$/MMBtu	2.20	2.68	0.48
Rockies/Opal	\$/MMBtu	1.47	2.60	1.13
El Paso Permian Basin	\$/MMBtu	-0.69	1.40	2.09
Socal Citygate	\$/MMBtu	3.84	3.25	-0.59
Malin	\$/MMBtu	2.16	3.21	1.05
Houston Ship Channel	\$/MMBtu	2.40	2.79	0.39
Henry Hub Cash	\$/MMBtu	2.16	2.62	0.46
AECO Cash	C\$/GJ	2.09	2.28	0.19
Station2 Cash	C\$/GJ	2.13	4.78	2.65
Dawn Cash	C\$/GJ	2.11	2.72	0.61

Source: CME, Bloomberg



					VS	s. 4 Weeks		
	Units	<b>Current Price</b>	vs.	<b>Last Week</b>		Ago	VS	. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.47		0.042		0.037		-0.022
NatGas Mar/Apr	\$/MMBtu	-0.304		0.036		-0.628		-0.584
NatGas Oct/Nov	\$/MMBtu	0.65		-0.132		-0.227		0.577
NatGas Oct/Jan	\$/MMBtu	1.33		0.029		-0.153		0.965
WTI Crude	\$/Bbl	40.89		1.460		1.580		-12.420
Brent Crude	\$/Bbl	42.91		1.190		1.470		-16.050
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03		0.000		0.000		0.000
Heating Oil	cents/Gallon	117.05		1.340		6.320		-77.010
Propane, Mt. Bel	cents/Gallon	0.52		0.009		0.032		0.061
Ethane, Mt. Bel	cents/Gallon	0.21		0.008		0.019		0.028
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.100
Coal, ILB	\$/MTon	31.05		0.000		0.000		-4.500