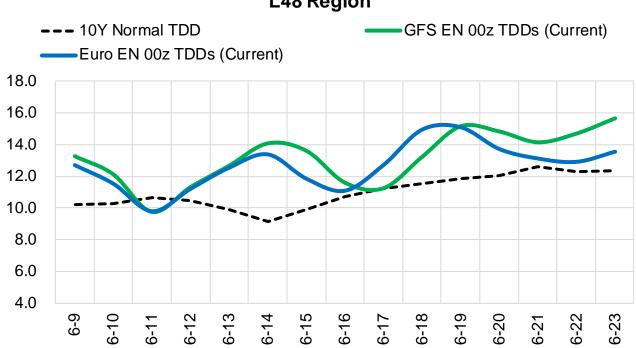


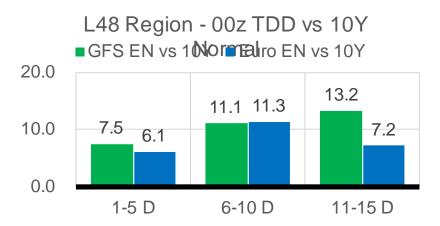


## Short-term Weather Model Outlooks (00z)



### L48 Region

# Vs. 10Y Normal



Source: WSI, Bloomberg

# **Market Report**

## 9 June 2021

#### **Daily Balances**

	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	DoD	vs.7D
Lower 48 Dry Production	91.8	92.5	92.9	92.3	92.6	91.3	90.7	<b>-0.6</b>	<b>T</b> -1.5
Canadian Imports	4.3	4.4	4.4	4.7	4.9	5.2	4.6	▼ -0.6	<b>T-0.1</b>
L48 Power	32.0	31.6	32.3	33.3	37.1	37.7	36.4	<b>T</b> -1.3	<b>2</b> .4
L48 Residential & Commercial	8.3	7.9	7.7	8.0	8.8	8.8	8.8	<b>a</b> 0.0	<b>0.6</b>
L48 Industrial	18.0	18.9	19.7	20.3	20.6	20.6	20.2	▼ -0.4	<b>0.6</b>
L48 Lease and Plant Fuel	5.1	5.1	5.1	5.1	5.1	5.0	5.0	▼ 0.0	▼ -0.1
L48 Pipeline Distribution	2.0	1.9	2.0	2.0	2.3	2.3	2.2	<b>T</b> -0.1	<b>A</b> 0.1
L48 Regional Gas Consumption	65.3	65.4	66.9	68.8	73.8	74.4	72.7	<b>▼ -1.7</b>	<b>3.6</b>
Net LNG Delivered	10.67	10.48	9.87	8.66	8.49	8.97	8.80	<b>-0.2</b>	<b>-0.7</b>
Total Mexican Exports	7.4	7.5	7.1	6.7	7.2	7.5	7.4	<b>-0.1</b>	<b>0.2</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity	12.7	13.5	13.4	12.9	8.0	5.6	6.4		

Lower 48 Component Models

Daily Model Error

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

	30-Apr	7-May	14-May	21-May	28-May	4-Jun	WoW	vs. 4W
Lower 48 Dry Production	91.2	91.3	91.5	91.4	92.1	91.9	▼ -0.2	<b>0.3</b>
Canadian Imports	4.6	4.6	4.8	4.6	4.5	3.9	<b>— -0.6</b>	▼-0.7
L48 Power	26.5	26.6	26.0	26.6	29.8	28.2	<b>T</b> -1.6	▲ 0.9
L48 Residential & Commercial	16.7	13.9	18.2	10.5	9.4	11.7	<b>2</b> .3	<b>T</b> -1.3
L48 Industrial	19.5	19.8	18.1	19.6	19.3	17.2	<b>T</b> -2.1	<b>-</b> 2.0
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	5.1	▲ 0.0	▲ 0.0
L48 Pipeline Distribution	2.1	2.1	2.3	1.9	2.0	2.0	▲ 0.0	▼ 0.0
L48 Regional Gas Consumption	69.9	67.4	69.5	63.6	65.5	64.2	▼ -1.3	<b>V</b> -2.3
Net LNG Exports	11.4	11.3	11.0	10.4	10.5	11.0	<b>0.5</b>	<b>0.2</b>
Total Mexican Exports	6.7	6.7	6.8	6.8	6.7	7.2	<b>0.4</b>	<b>0.4</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity	7.9 8.6	10.5 10.1	9.0 10.1	15.2 16.4	13.8 14.0	13.4	-0.4	
Daily Model Error	-0.7	0.4	-1.2	-1.2	-0.2			·

#### **Monthly Balances**

	2Yr Ago	LY					MTD		
	Jun-19	Jun-20	Feb-21	Mar-21	Apr-21	May-21	Jun-21	МоМ	vs. LY
Lower 48 Dry Production	91.5	87.7	85.2	91.8	91.4	91.6	92.1	<b>0.5</b>	<b>0.3</b>
Canadian Imports	4.7	4.0	6.3	4.8	4.7	4.5	4.5	▼ 0.0	<b>▼</b> -0.3
L48 Power	33.1	34.9	27.7	24.3	25.0	27.1	33.6	<b>6</b> .5	<b>9.3</b>
L48 Residential & Commercial	9.0	8.8	47.1	29.3	20.0	13.1	8.4	▼ -4.7	▼-20.9
L48 Industrial	22.5	19.9	21.3	19.7	20.3	18.9	19.1	<b>a</b> 0.2	<b>V</b> -0.6
L48 Lease and Plant Fuel	5.0	4.8	4.7	5.0	5.0	5.0	5.1	<b>A</b> 0.1	<b>0</b> .0
L48 Pipeline Distribution	2.1	2.2	3.3	2.5	2.2	2.1	2.1	<b>0</b> .0	<b>V</b> -0.5
L48 Regional Gas Consumption	71.7	70.7	104.1	80.9	72.5	66.2	68.2	<b>2.1</b>	▼-12.6
Net LNG Exports	5.5	4.0	8.6	11.1	11.5	10.8	9.8	▼-1.1	▼-1.4
Total Mexican Exports	5.2	5.5	5.8	6.5	6.7	6.8	7.3	<b>0.5</b>	<b>0.8</b>
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	13.8	11.5	-27.0	-2.0	5.4	12.3	11.2		

Source: Bloomberg, analytix.ai

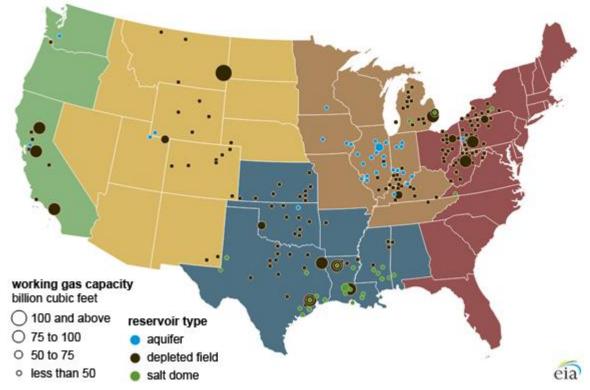


## Regional S/D Models Storage Projection

Week Ending	4-Jun			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
L48	13.1	0.9	14.0	98
East	3.3	0.7	4.0	28
Midwest	4.0	-0.9	3.1	22
Mountain	4.7	-3.3	1.4	10
South Central	-0.8	4.7	3.9	27
Pacific	1.8	-0.3	1.6	11

\*Adjustment Factor is calcuated based on historical regional deltas

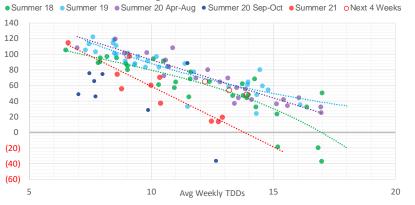
### U.S. underground natural gas storage facilities by type (July 2015)



## Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
04-Jun	9.0	98
11-Jun	13.2	54
18-Jun	12.2	65
25-Jun	13.9	48

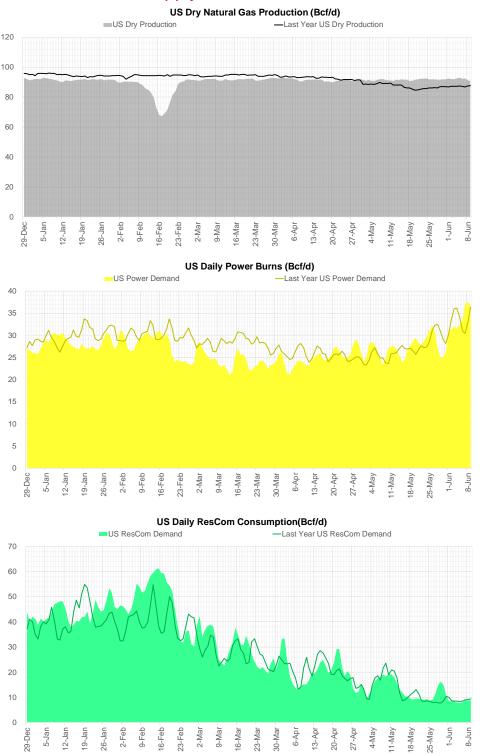
#### Weather Storage Model - Next 4 Week Forecast



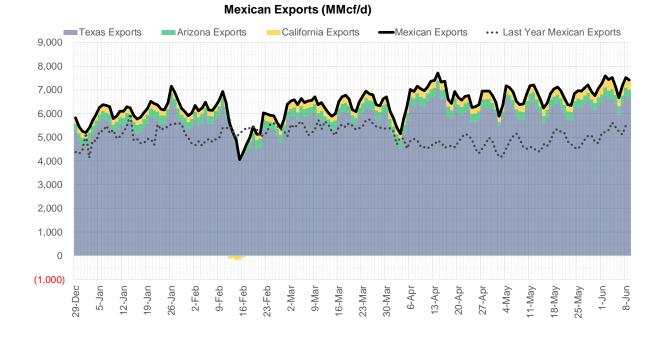
# Go to larger image

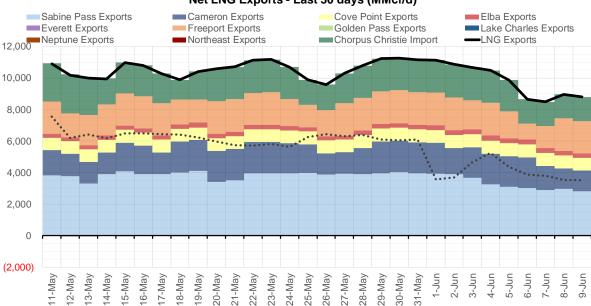


## Supply – Demand Trends



Source: Bloomberg





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

Source: Bloomberg

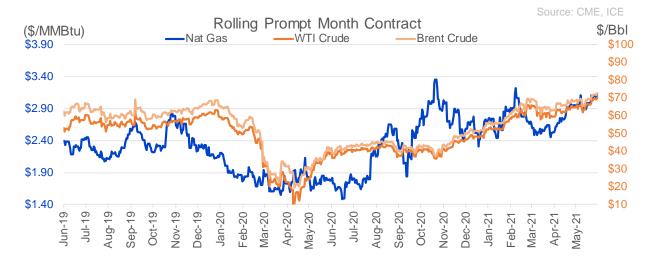


### Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL		IRACT NTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
	IEAK			VOL	1010					
8	2021	С	3.50	14480		8	2021	С	3.50	43578
8	2021	Р	3.00	12222		10	2021	С	4.00	41946
8	2021	Р	2.90	11451		9	2021	С	4.00	34801
7	2021	С	3.50	8471		7	2021	Р	2.90	33222
7	2021	С	3.25	8174		10	2021	Р	2.50	32533
7	2021	Р	2.75	8082		8	2021	С	3.25	32393
7	2021	Р	2.80	5246		7	2021	С	3.25	30756
7	2021	Р	3.15	5009		10	2021	С	3.25	30223
8	2021	С	3.25	4429		7	2021	Р	2.75	29687
7	2021	Р	3.00	4081		10	2021	С	3.50	29620
7	2021	Р	2.90	4006		7	2021	Р	2.50	28796
10	2021	Р	2.50	4004		10	2021	С	5.00	27002
7	2021	С	3.20	3982		7	2021	С	4.00	26553
7	2021	Р	3.05	3437		7	2021	С	3.50	26202
8	2021	Р	3.10	3341		8	2021	С	4.00	25841
7	2021	Р	3.10	2884		8	2021	Р	2.50	25024
7	2021	С	3.30	2526		9	2021	С	3.50	24862
7	2021	С	3.40	2326		7	2021	Р	2.80	24806
10	2021	С	3.50	2169		7	2021	Р	3.00	23951
10	2021	Р	2.70	2015		7	2021	С	3.75	23938
9	2021	С	3.50	2004		10	2021	Р	2.00	23356
10	2021	Р	2.75	2000		9	2021	Р	2.50	22472
9	2021	С	3.25	1776		7	2021	С	3.00	22352
10	2021	P	3.00	1775		12	2021	С	4.00	20927
8	2021	Р	2.75	1607		7	2021	Р	2.85	20708
8	2021	С	3.75	1513		9	2021	Р	2.00	20423
7	2021	С	3.00	1496		8	2021	Р	2.00	19664
8	2021	P	3.05	1472		8	2021	P C	2.25	19585
7	2021	Р	2.85	1421		9 8	2021 2021	c	3.25 3.75	19567 19522
10	2021	С	3.25	1332		8 4	2021	c	3.75	19522
7	2021	Р	2.95	1320		4 10	2022	c	3.00	19455
9	2021	Р	3.00	1247		10	2021	c	3.00 4.00	18111
8	2021	Р	3.20	1237		10	2021	P	4.00 2.25	18003
8	2021	Р	2.45	1132		8	2021	P	2.25	17772
7	2021	С	3.15	1076		10	2021	P	2.75	17370
8	2021	Р	2.50	1014		3	2022	c	4.00	16900
8	2021	С	3.80	1005		8	2022	P	3.00	16573
10	2021	С	3.75	1000		7	2021	P	2.00	16035
3	2022	С	5.00	1000		8	2021	c	3.00	16028
3	2022	С	6.00	1000		1	2021	P	2.50	15467
7	2021	С	3.75	867		7	2021	P	2.70	14858
8	2021	С	4.00	804		3	2022	c	3.00	14544
8	2021	P	2.80	768		3	2022	c	5.00	14200
8	2021	С	3.30	704		7	2021	C	3.15	14139
11	2021	C	4.00	655		, 10	2021	c	6.00	13996
10	2021	С	4.00	651		10	2021	c	4.50	13971
7	2021	C	3.55	636		12	2021	P	2.00	13884
7	2021	C	3.10	629		9	2021	P	1.90	13732
7	2021	C	3.35	614		7	2021	P	2 65	13597
								Source	e: CME, ICE	

### Nat Gas Futures Open Interest CME, and ICE Combined

Civile, and ICE Combined									
CME Henry H	lub Futures (1	0,000 MMBt		ICE Henry	Hub Futures Cont	ract Equiva			
	Current	Prior	Daily Change		Current	Prior	Daily Change		
JUL 21	248286	270974	-22688	JUL 21	97122	96321	801		
AUG 21	123537	115023	8514	AUG 21	81522	80495	1027		
SEP 21	160550	152775	7775	SEP 21	81562	81322	240		
OCT 21	143373	140451	2922	OCT 21	97171	93916	3255		
NOV 21	79538	77716	1822	NOV 21	71421	71640	-219		
DEC 21	56648	53928	2720	DEC 21	66560	66624	-64		
JAN 22	83313	79198	4115	JAN 22	75283	72943	2340		
FEB 22	33202	32475	727	FEB 22	60677	59613	1064		
MAR 22	62783	57268	5515	MAR 22	62591	61202	1389		
APR 22	67313	65576	1737	APR 22	54536	54133	403		
MAY 22	42458	40517	1941	MAY 22	50358	49327	1031		
JUN 22	21041	20695	346	JUN 22	46181	45968	213		
JUL 22	13749	12896	853	JUL 22	45906	45452	454		
AUG 22	12943	12086	857	AUG 22	44966	44358	608		
SEP 22	13788	12624	1164	SEP 22	45648	45045	603		
OCT 22	35039	32649	2390	OCT 22	51644	50271	1373		
NOV 22	13334	12515	819	NOV 22	39892	39291	600		
DEC 22	11626	11430	196	DEC 22	44707	44354	354		
JAN 23	5890	5737	153	JAN 23	24721	24643	78		
FEB 23	2858	2815	43	FEB 23	22501	22468	33		
MAR 23	6518	6167	351	MAR 23	25101	24957	145		
APR 23	7830	7523	307	APR 23	20803	20725	78		
MAY 23	4525	4521	4	MAY 23	20339	20282	57		
JUN 23	972	959	13	JUN 23	18910	18870	40		
JUL 23	1673	1612	61	JUL 23	18854	18811	43		
AUG 23	835	834	1	AUG 23	18967	18924	43		
SEP 23	807	775	32	SEP 23	18358	18317	41		
OCT 23	1980	1974	6	OCT 23	19193	19128	65		
NOV 23	693	693	0	NOV 23	18483	18455	29		
DEC 23	1131	1132	-1	DEC 23	18997	18982	15		



vs. Last Year

\$1.281

\$1.197

\$1.135

\$1.068

\$0.795

\$0.469

\$0.416

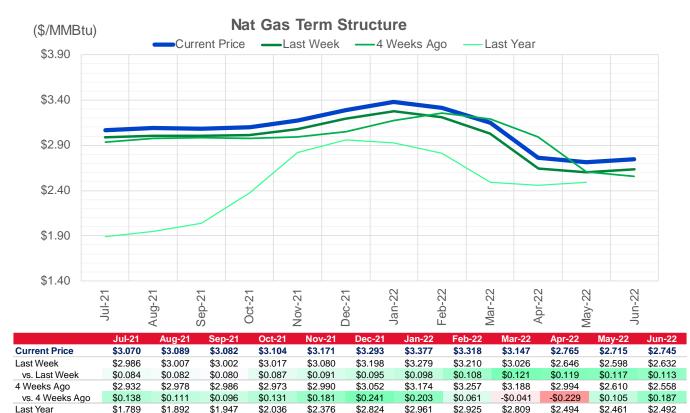
\$0.393

\$0.338

\$0.271

\$0.254

\$0.253



		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	3.45	2.73	-0.73
TETCO M3	\$/MMBtu	2.45	2.59	0.14
FGT Zone 3	\$/MMBtu	3.05	3.18	0.13
Zone 6 NY	\$/MMBtu	3.05	2.58	-0.47
Chicago Citygate	\$/MMBtu	3.08	3.01	-0.07
Michcon	\$/MMBtu	3.05	2.95	-0.10
Columbia TCO Pool	\$/MMBtu	2.65	2.58	-0.07
Ventura	\$/MMBtu	2.66	2.95	0.29
Rockies/Opal	\$/MMBtu	2.76	2.97	0.21
El Paso Permian Basin	\$/MMBtu	2.68	3.07	0.39
Socal Citygate	\$/MMBtu	3.57	4.15	0.58
Malin	\$/MMBtu	2.75	3.40	0.65
Houston Ship Channel	\$/MMBtu	3.04	3.15	0.11
Henry Hub Cash	\$/MMBtu	3.11	2.97	-0.14
AECO Cash	C\$/GJ	2.67	2.63	-0.04
Station2 Cash	C\$/GJ	2.60	3.27	0.67
Dawn Cash	C\$/GJ	3.05	2.94	-0.11

Source: CME, Bloomberg



			4 Weeks	Weeks				
	Units	<b>Current Price</b>	vs. La	ast Week		Ago	vs	. Last Year
NatGas Jul21/Oct21	\$/MMBtu	0.025	🔻 -C	0.001		0.013		0.021
NatGas Oct21/Nov21	\$/MMBtu	0.063	Δ 0	0.010		0.001		0.020
NatGas Oct21/Jan22	\$/MMBtu	0.261	<b></b> 0	0.016		-0.003		-0.015
NatGas Apr22/Oct22	\$/MMBtu	0.022	<b></b> 0	0.001		0.000		-0.045
WTI Crude	\$/Bbl	70.05	🔺 2	2.330		4.770		31.110
Brent Crude	\$/Bbl	72.22	<b>A</b> 1	.970		3.670		31.040
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	Δ 0	0.000		0.000		0.000
Heating Oil	cents/Gallon	213.50	<b>4</b> 6	6.350		9.330		98.030
Propane, Mt. Bel	cents/Gallon	0.93	Δ 0	0.016		0.124		0.436
Ethane, Mt. Bel	cents/Gallon	0.27	<b></b> 0	0.003		0.016		0.039
Coal, PRB	\$/MTon	12.30	Δ 0	0.000		0.000		0.000
Coal, PRB	\$/MMBtu	0.70						
Coal, ILB	\$/MTon	31.05	Δ 0	0.000		0.000		0.000
Coal, ILB	\$/MMBtu	1.32						





Summer 18

Summer 19

• Summer 20 Apr-Aug

Summer 20 Sept-Oct

t • Summer 21

ONext 4 Weeks

