

	Cı	ırrent	Δf	rom	ı YD	Δ from 7D Avg
Nat Gas Prompt	\$	1.73	_	\$	-	\$ (0.03)

	С	urrent	Δ from YD	_	m 7D vg
WTI Prompt	\$	35.43	\$ (0.83)	▼ \$	(2.0)

	_	Current	A from VD	Δ from 7D			
	C		ם וווטווו זם	A	vg		
Brent Prompt	\$	38.20	> \$ (0.53)	~ \$	(1.6)		

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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	1.1	-2.0	-2.6	-3.5
24 Hr Chg	-0.6	-3.2	-2.7	-6.6
GFS Ensemble 00z	1-5 Day	6-10 Day	11-15 Day	Total
GFS Ensemble 00z 12 Hr Chg	1-5 Day -0.3	6-10 Day 2.4	11-15 Day -0.9	Total 1.2

	Current	Δ from YD	Δ from 7D Avg
US Dry Production	84.1	▼ -0.63	▼ -0.36

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.2	▼ -0.67	▼ -0.21

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	3.8	▼ -0.05	▼ -0.03

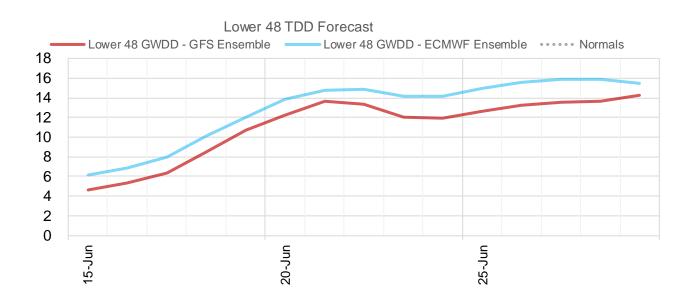
	Current	Δf	rom YD	Δf	rom 7D Avg
US Power Burns	33.2		3.43		0.04

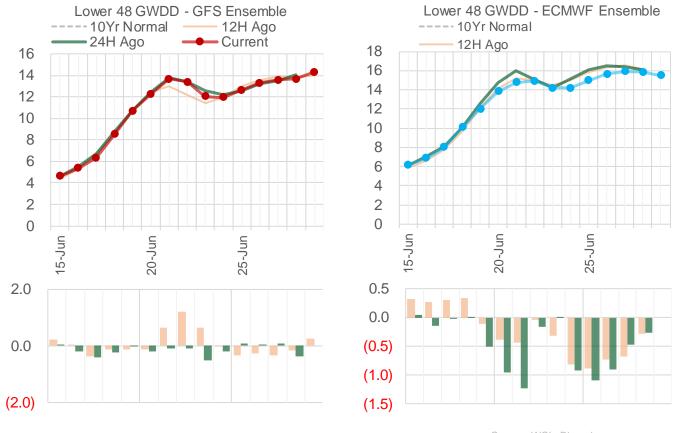
		Current	Δfı	rom YD	Δf	rom 7D Avg
Ca	anadian ports	3.3		0.03	$\overline{}$	-0.40

	Current	Δf	rom YD	Δf	rom 7D Avg
Mexican Exports	5.4		0.35	~	-0.24



Short-term Weather Model Outlooks (00z)





Source: WSI, Bloomberg



Lower 48 Component Models

Daily Balances

	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	DoD	vs.7D
Lower 48 Dry Production	84.3	84.6	84.2	84.3	84.7	84.7	84.1	-0.6	-0.4
Canadian Imports	3.9	4.0	4.1	3.9	3.3	3.3	3.3	0.0	-0.5
L48 Power	36.4	37.1	34.1	32.9	28.9	29.7	33.2	3.4	0.0
L48 Residential & Commercial	8.5	8.2	7.8	8.2	8.8	8.9	8.2	-0.7	-0.2
L48 Industrial	18.8	18.6	18.1	17.9	17.6	17.5	17.4	0.0	-0.6
L48 Lease and Plant Fuel	4.8	4.8	4.7	4.8	4.8	4.8	4.7	0.0	0.0
L48 Pipeline Distribution	2.2	2.2	2.0	2.0	1.8	1.9	2.0	0.1	0.0
L48 Regional Gas Consumption	70.7	70.8	66.8	65.8	61.9	62.7	65.5	2.8	-0.9
Net LNG Exports	3.5	4.0	4.2	3.9	3.9	3.9	3.8	0.0	-0.1
Total Mexican Exports	5.8	6.2	6.0	5.9	5.3	5.1	5.4	0.3	-0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	8.3	7.5	11.4	12.7	16.8	16.3	12.6		

EIA Storage Week Balances

	8-May	15-May	22-May	29-May	5-Jun	12-Jun	WoW	vs. 4W
Lower 48 Dry Production	87.0	86.5	83.9	83.9	84.5	84.3	▽ -0.2	▼ -0.5
Canadian Imports	3.6	4.0	4.1	4.1	4.2	3.8	▽ -0.4	▽ -0.3
L48 Power	24.6	25.0	26.7	30.0	32.0	33.8	1.7	▲ 5.3
L48 Residential & Commercial	14.5	19.3	10.8	8.2	8.5	8.1	▼ -0.4	-3.6
L48 Industrial	18.7	17.3	18.9	19.3	19.2	18.7	▼ -0.5	0.0
L48 Lease and Plant Fuel	4.9	4.8	4.7	4.7	4.7	4.7	△ 0.0	a 0.0
L48 Pipeline Distribution	1.9	2.2	1.8	1.9	2.0	2.0	△ 0.0	a 0.0
L48 Regional Gas Consumption	64.6	68.7	62.9	64.1	66.5	67.4	0.9	1.8
Net LNG Exports	7.7	6.9	6.3	6.1	5.1	3.9	▼ -1.2	▼ -2.2
Total Mexican Exports	4.7	4.7	5.2	5.0	5.3	5.7	△ 0.4	△ 0.7
Implied Daily Storage Activity	13.5	10.2	13.7	12.9	11.8	11.2	-0.7	
EIA Reported Daily Storage Activity	14.7	11.6	15.6	14.6	13.3			
Daily Model Error	-1.2	-1.3	-1.9	-1.7	-1.5			

Monthly Balances

•	2Yr Ago	LY					MTD		
n	Jun-18	Jun-19	Feb-20	Mar-20	Apr-20	May-20	Jun-20	MoM	vs. LY
Lower 48 Dry Production	81.6	89.6	91.8	92.2	91.2	85.3	84.3	▼ -1.0	▼ -5.2
Canadian Imports	5.6	4.7	5.2	4.1	3.9	3.9	3.9	▽ -0.1	▼ -0.9
L48 Power	31.8	33.0	30.0	28.3	25.7	26.9	33.1	6.3	△ 0.1
L48 Residential & Commercial	8.6	9.0	39.9	27.7	21.6	12.8	8.3	▼ -4.4	▼ -0.7
L48 Industrial	21.3	21.3	24.3	21.6	18.9	18.6	18.5	▼ -0.2	▼ -2.9
L48 Lease and Plant Fuel	4.5	5.0	5.2	5.2	5.2	4.8	4.8	▼ 0.0	▼ -0.3
L48 Pipeline Distribution	1.9	2.0	3.0	2.5	2.3	2.0	2.0	△ 0.0	▼ 0.0
L48 Regional Gas Consumption	68.2	70.4	102.3	85.4	73.6	65.0	66.7	1.7	▼ -3.7
Net LNG Exports	3.2	5.5	8.5	8.5	8.2	6.7	4.0	▼ -2.7	▼ -1.5
Total Mexican Exports	4.5	5.3	5.3	5.6	4.9	4.9	5.6	△ 0.7	△ 0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity	11.3	13.1	-19.0	-3.1	8.4	12.7	11.9		
Daily Model Error									

Source: Bloomberg, analytix.ai



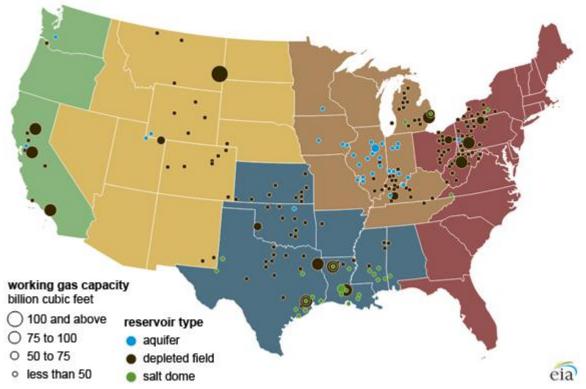
Regional S/D Models Storage Projection

Week Ending 12-Jun

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	10.9	1.8	12.7	89
East	1.6	2.2	3.8	27
Midwest	4.2	0.3	4.5	32
Mountain	2.9	-2.2	0.7	5
South Central	0.7	1.8	2.5	18
Pacific	1.5	-0.3	1.2	8

^{*}Adjustment Factor is calcuated based on historical regional deltas

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





Weather Model Storage Projection

Week Ending	Week Storage Projection
12-Jun	81
19-Jun	94
26-Jun	60
3-Jul	64

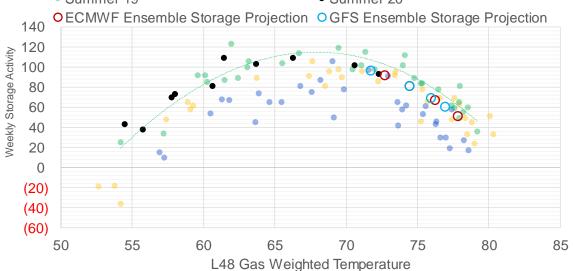
Weather Storage Model - Next 4 Week Forecast

Summer 17

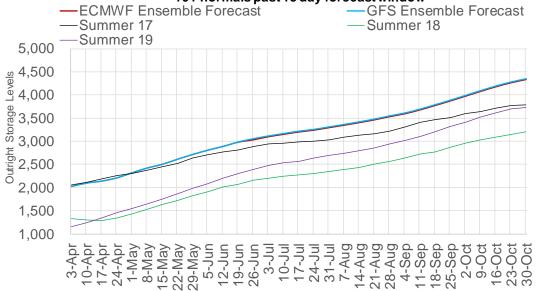
Summer 18

Summer 19

• Summer 20



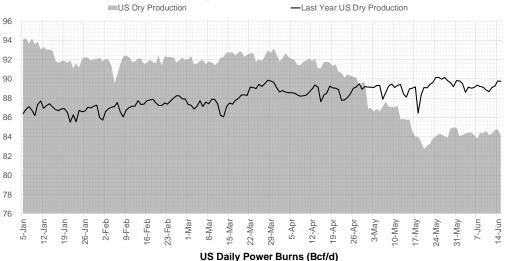
Weather Based End of Winter Projection (Bcf) 10Y normals past 15 day forecast window



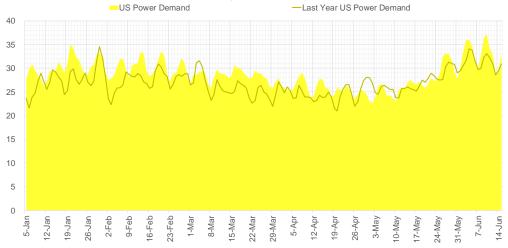


Supply - Demand Trends

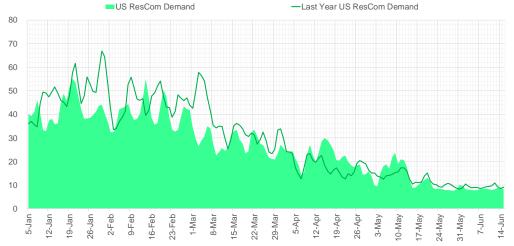
US Dry Natural Gas Production (Bcf/d)



US Daily Power Burns (Bcf/d)



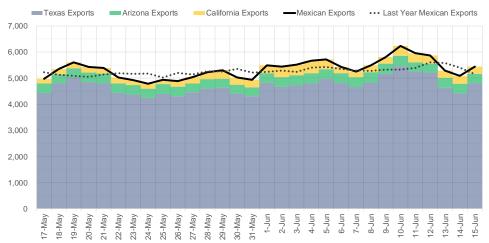
US Daily ResCom Consumption(Bcf/d)

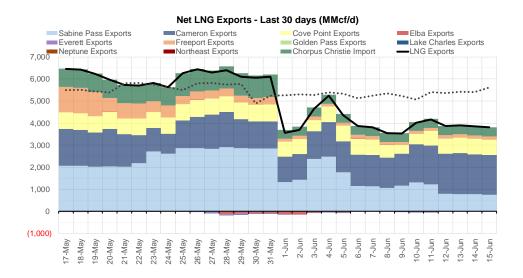


Source: Bloomberg



Mexican 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	CONTRACT MONTH		CONTRACT YEAR		
7	2020	Р	1.65	4126	10		2020	2020 P	2020 P 1.50
7	2020	Ċ	2.00	3870	10		2020		
7	2020	Č	1.85	3696	7	2020			
					10	2020		C	
7	2020	P	1.60	2181	3	2020		P	
7	2020	С	1.90	2033	3 10	2021		P	
10	2020	С	3.25	2004				P	
7	2020	С	2.25	1968	7	2020			
10	2020	С	2.75	1815	10	2020		C	
10	2020	С	2.50	1701	10	2020		P	
4	2021	С	3.00	1503	7	2020		С	
4	2021	С	2.50	1500	9	2020		С	
7	2020	Р	1.75	1282	10	2020		Р	
9	2020	С	2.50	1129	8	2020		С	
7	2020	P	1.80	1053	10	2020		Р	P 1.75
8	2020	C	2.50	1005	8	2020		Р	P 1.50
11	2020	Ċ	4.00	1000	9	2020		Р	P 1.50
7	2020	P	1.50	972	9	2020		Р	P 1.00
9	2020	P		947	7	2020		С	C 2.25
			1.75		9	2020		Р	
10	2020	C	3.00	900	7	2020		P	
3	2021	P	2.00	863	7	2020		C	
9	2020	С	2.75	835	7	2020		Č	
7	2020	С	1.75	825	9	2020		Č	
9	2020	С	3.00	820	9	2020		P	
10	2020	Р	1.70	800	8	2020		P	
8	2020	Р	1.75	773					
7	2020	С	1.95	759	10	2020		P	
11	2020	Č	2.80	750	10	2020		P	
11	2020	Ċ	3.30	750	10	2020		C	
8	2020	č	2.35	735	7	2020		С	
7	2020	P	1.70	701	7	2020		Р	
, 11	2020	C	3.25	665	10	2020		С	
					1	2021		С	
7	2020	P	1.40	610	8	2020		Р	P 1.00
8	2020	P	1.70	604	1	2021		С	C 3.00
7	2020	С	1.80	553	7	2020		С	
11	2020	С	3.50	550	7	2020		P	
11	2022	Р	2.00	550	11	2020		C	
12	2022	Р	2.00	550	10	2020		P	
10	2020	Р	1.00	542	3	2020		C	
9	2020	Р	1.70	539	9	2020		Č	
10	2020	C	2.25	530	8	2020		C	
10	2020	P	1.20	526	o 4	2020		C	
10	2020	P	2.00	505					
8	2020	C	2.00	502	7	2020		P	
		P			3	2021		С	
10	2020		1.75	502	9	2020		C	
12	2020	P	1.50	500	9	2020		P	
3	2021	C	4.00	500	8	2020		С	
3	2021	С	6.00	500	8	2020		Р	
3	2021	С	7.00	500	7	2020		Р	
11	2022	С	3.50	500	7	2020		Р	P 1

Source: CME, Nasdaq, ICE

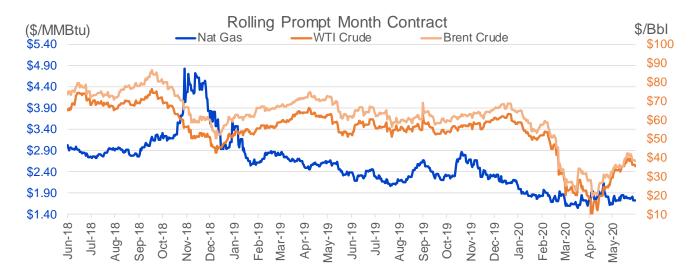


Nat Gas Futures Open Interest

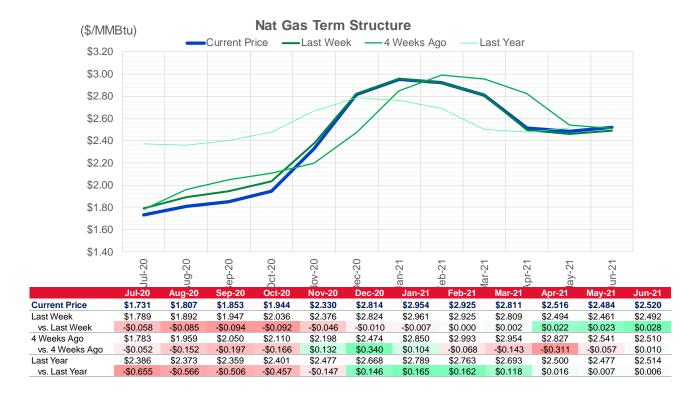
CME, ICE and Nasdaq Combined

CME Henry H	lub Futures (1	0,000 MMBtu	٦)	ICE Henry	Hub Futures Cont	ract Equiva	alent (10,000 MM
	Current	Prior	Daily Change		Current	Prior	Daily Change
JUL 20	164124	172028	-7904	JUL 20	77745	76907	838
AUG 20	175113	172362	2751	AUG 20	79420	79842	-421.75
SEP 20	179423	181036	-1613	SEP 20	69422	67683	1739.5
OCT 20	114080	114160	-80	OCT 20	82043	81982	60.5
NOV 20	53303	52459	844	NOV 20	62301	61694	606.25
DEC 20	62849	61804	1045	DEC 20	58138	58138	-0.25
JAN 21	110427	108184	2243	JAN 21	73601	73551	50.5
FEB 21	38558	37588	970	FEB 21	45597	45523	74.25
MAR 21	77645	77562	83	MAR 21	62521	62527	-5.75
APR 21	68982	69057	-75	APR 21	49183	49445	-261.75
MAY 21	25762	25361	401	MAY 21	46690	46612	77.75
JUN 21	17729	17826	-97	JUN 21	43439	43229	210.25
JUL 21	14997	14898	99	JUL 21	44437	44342	95.25
AUG 21	11321	11144	177	AUG 21	45143	45022	120.5
SEP 21	13827	13551	276	SEP 21	42479	42367	111.5
OCT 21	31623	31440	183	OCT 21	54305	54251	54.5
NOV 21	18651	18450	201	NOV 21	36778	36655	123.25
DEC 21	15597	15517	80	DEC 21	37754	37605	149.25
JAN 22	11843	11867	-24	JAN 22	29494	29523	-29.25
FEB 22	8256	8257	-1	FEB 22	25958	25901	57
MAR 22	15362	15245	117	MAR 22	28135	28093	41.5
APR 22	11112	11058	54	APR 22	25571	25393	177.5
MAY 22	4765	4663	102	MAY 22	22185	22171	13.75
JUN 22	2013	2062	-49	JUN 22	21545	21553	-7.5
JUL 22	1791	1790	1	JUL 22	22204	22102	101.75
AUG 22	1249	1249	0	AUG 22	21270	21171	98.75
SEP 22	1322	1317	5	SEP 22	21715	21619	95.25
OCT 22	1854	1884	-30	OCT 22	24056	24070	-13.75
NOV 22	1367	1346	21	NOV 22	19375	19316	59.5
DEC 22	1269	1265	4	DEC 22	20087	20026	61.5

Source: CME, ICE







	11.20	Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	1.35	1.59	0.24
TETCO M3	\$/MMBtu	1.26	1.50	0.24
FGT Zone 3	\$/MMBtu	1.28	1.84	0.56
Zone 6 NY	\$/MMBtu	1.28	1.53	0.25
Chicago Citygate	\$/MMBtu	1.48	1.74	0.26
Michcon	\$/MMBtu	1.49	1.71	0.22
Columbia TCO Pool	\$/MMBtu	1.32	1.54	0.22
Ventura	\$/MMBtu	1.55	1.70	0.15
Rockies/Opal	\$/MMBtu	1.45	1.58	0.13
El Paso Permian Basin	\$/MMBtu	1.33	1.47	0.14
Socal Citygate	\$/MMBtu	1.74	1.98	0.24
Malin	\$/MMBtu	1.47	1.69	0.22
Houston Ship Channel	\$/MMBtu	1.58	1.81	0.23
Henry Hub Cash	\$/MMBtu	1.66	1.70	0.04
AECO Cash	C\$/GJ	1.39	1.47	0.08
Station2 Cash	C\$/GJ	1.39	1.70	0.31
Dawn Cash	C\$/GJ	1.53	1.73	0.20

Source: CME, Bloomberg



					VS	s. 4 Weeks		
	Units	Current Price	vs.	Last Week		Ago	V	s. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.44	_	0.029	_	0.014	$\overline{}$	-0.054
NatGas Mar/Apr	\$/MMBtu	-0.295	_	0.020	$\overline{}$	-0.581	$\overline{}$	-0.539
NatGas Oct/Nov	\$/MMBtu	0.39	_	0.046	_	0.110		0.325
NatGas Oct/Jan	\$/MMBtu	1.01	_	0.085	_	0.215		0.691
WTI Crude	\$/Bbl	35.43	$\overline{}$	-2.760	_	3.610	$\overline{}$	-16.500
Brent Crude	\$/Bbl	38.20	$\overline{}$	-2.600	_	3.390	$\overline{}$	-22.740
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03	_	0.000	_	0.000		0.000
Heating Oil	cents/Gallon	109.66	$\overline{}$	-2.470	_	9.020	$\overline{}$	-70.290
Propane, Mt. Bel	cents/Gallon	0.50	$\overline{}$	-0.006	_	0.086		0.071
Ethane, Mt. Bel	cents/Gallon	0.22	$\overline{}$	-0.008	$\overline{}$	-0.011		0.050
Coal, PRB	\$/MTon	12.30		0.000		0.000	$\overline{}$	-0.050
Coal, ILB	\$/MTon	31.05		0.000		0.000	$\overline{}$	-9.500