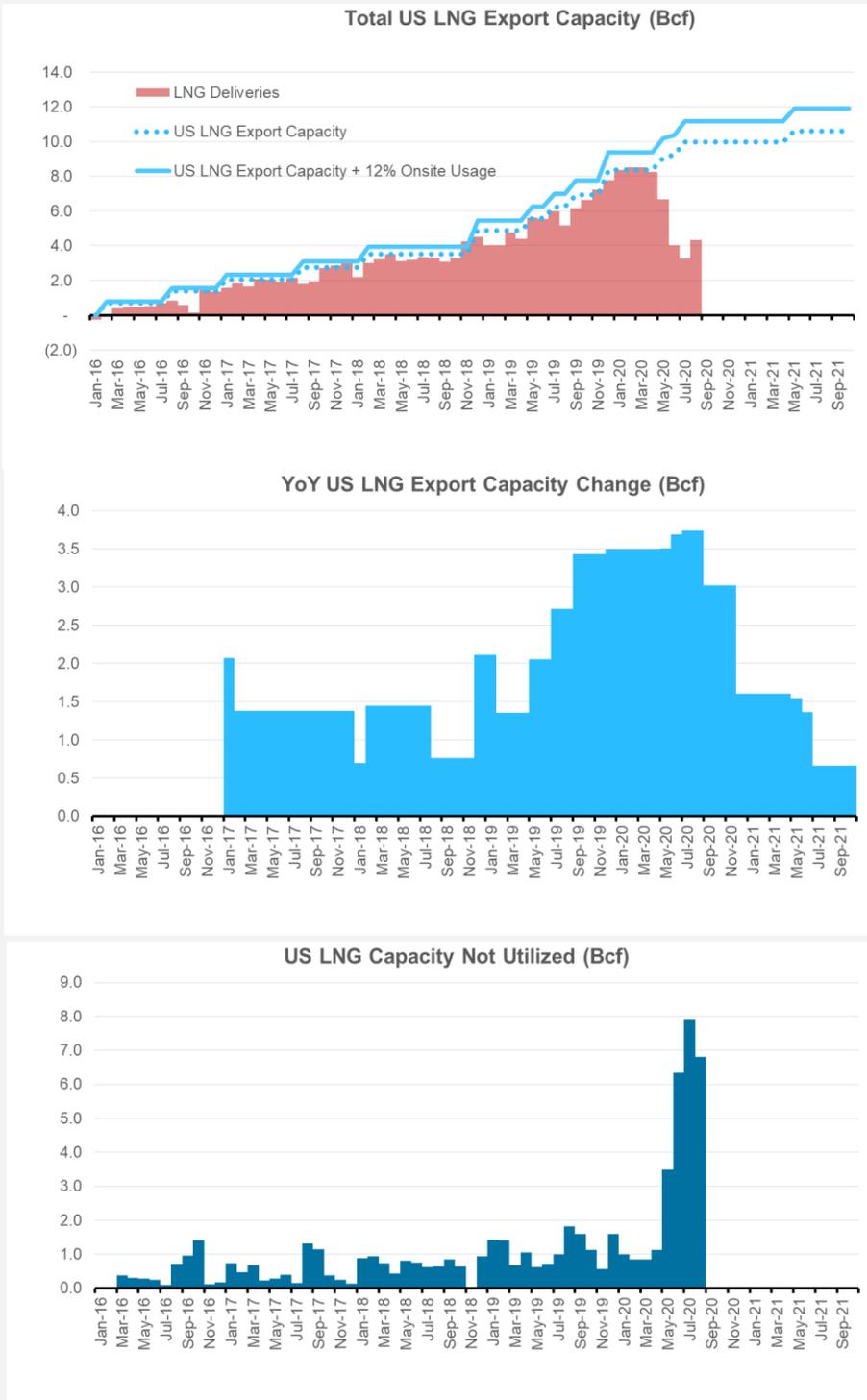
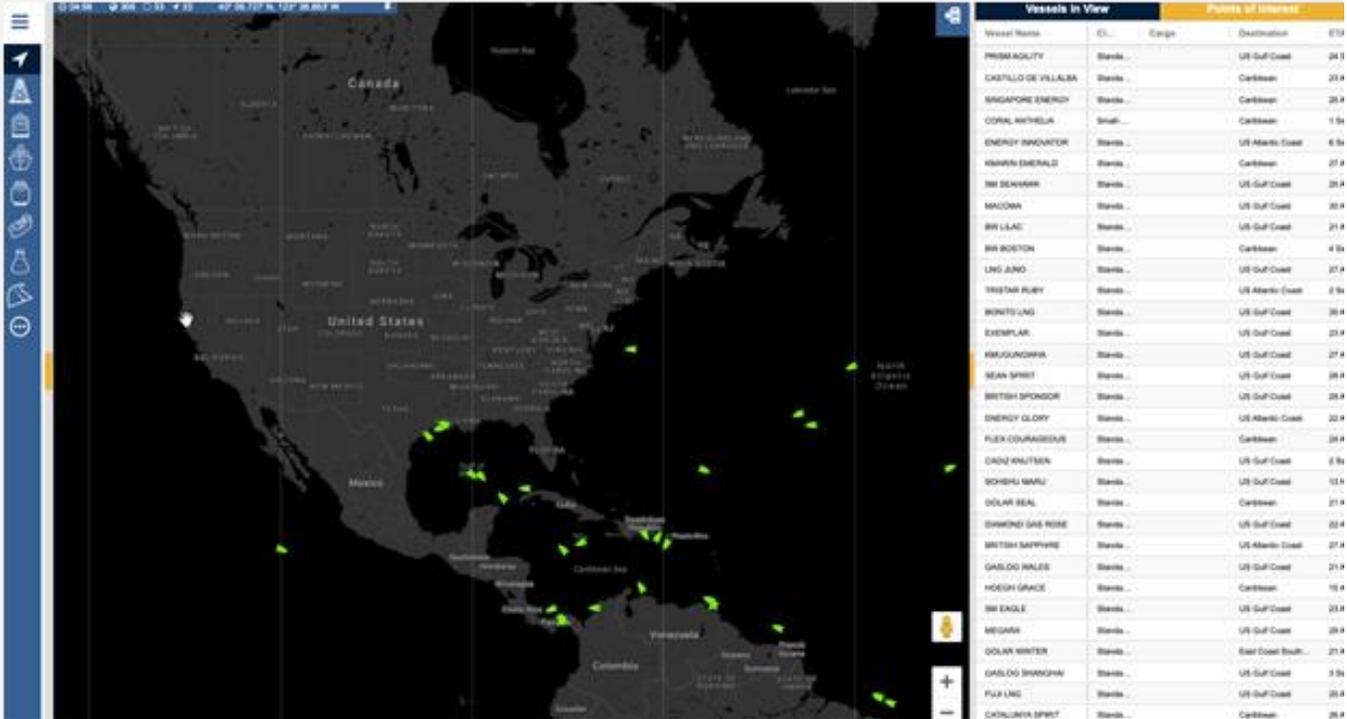


LNG continues to be an important part of the balances this summer. After experiencing a steady drop in US gas deliveries with cargo cancellation, it appears we are on the upswing. The lowest total was recorded on July 9th with only 2.8 Bcf delivered to all US LNG. This month so far we have been heading higher, with 5.1 Bcf/d recorded the past 2 days.



Where do we head from here?

On August 20th, Kaleem Asghar from ClipperData noted on enelyst.com that there are 16 cargo ships currently sailing towards the US with an ETA over the next 7 days.



Rough math on that tell us that LNG needs to shoot up to fulfill that requirement. He did say that 16 ships leaving in one week might be on the high side, but the US has the capability to load 20 cargoes a week.

If 16 tankers were to arrive, than here is how the math works out.

$$[16 \text{ cargos} \times 3.3 \text{ Bcf/cargo}] + 12\% \text{ onsite usage} = 59 \text{ Bcf or } 8.45 \text{ Bcf/d over 7 days.}$$

And if 10 tankers were to arrive, than here is how it looks.

$$[10 \text{ cargos} \times 3.3 \text{ Bcf/cargo}] + 12\% \text{ onsite usage} = 40 \text{ Bcf or } 5.3 \text{ Bcf/d over 7 days.}$$

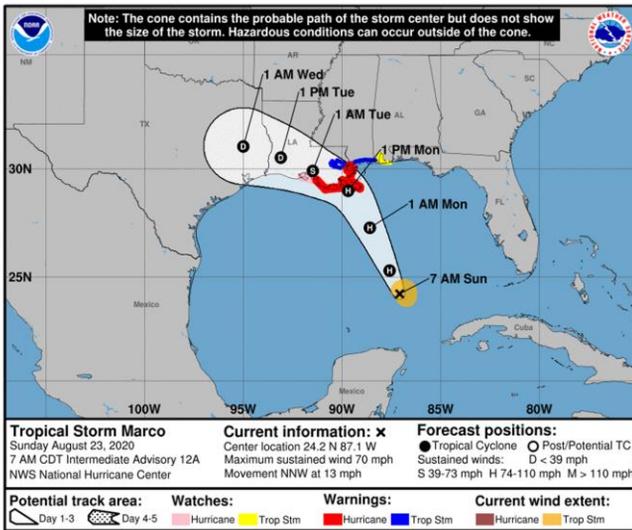
So we could see LNG deliveries ramp up in the short-term, but there are some risks to the above numbers. First, some of the LNG could be loaded from already liquefied natgas siting in onsite above ground storage. Second, there are two major storms headed into the Atlantic that could delay some of the tanker arrivals.

Here is a map of the storm trajectories from 8/20 from Maxar Weather. The green dots represent all the offshore structures.



Source: Maxar Weather (8/21)

Here is the latest look on the direction of the tropics activity. Both not look to be headed towards LA and East Texas.



Next we take a look at upcoming cargo cancellations. Most US cargoes that have been cancelled are from long-term offtakers. This summer LNG delivered prices across the world fell below the cost of feedgas at US facilities, resulting in cargo cancellations. Europe storage is stabilizing and global spreads are once again opening up as we head towards winter.

Cheniere — which operates around half of the US' total liquefaction capacity — exported 78 cargoes from April through the end of June, down from 104 cargoes a year earlier and as many as 128 cargoes in the first quarter of this year. Around the 20th day of each month, offtakers notify Cheniere about the status of their cargo 2 months out. There is no public announcement, but market analyst and journalist usually uncover a good estimate. This past week, ClipperData said they expect up to 10 cancellations, but there was the potential of an uplift from deferred cargoes in October. A Reuters article did a good job of summarizing the past and forward cancellations.

"The exact number of cancellations was not immediately clear but several trade sources estimated a range of three to 10, much lower than the 25 cargoes likely cancelled for loading in September and the 40 to 45 likely cancelled in July and August"

Article Link: <https://www.reuters.com/article/us-usa-lng-exports-idUSKBN25H0QT>

And just if you were wondering about winter. The spreads look wide enough to support all contractual volumes to flow. Cheniere stated they expect a recovery in global LNG demand, particularly in Asia, to continue throughout the rest of the year.

Australian Gorgon update

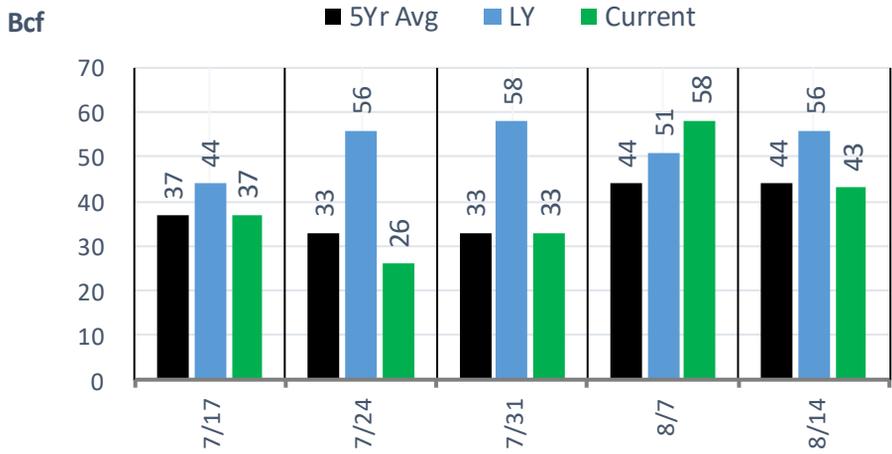
Following the planned restart of Train 2 in September, Chevron has proposed a new staggered maintenance schedule for Gorgon LNG to Australia's safety regulators that will see Train 1 shutdown for inspection in early October and Train 3 in January 2021.

To make up lost volumes, offtakers have received requests from Chevron to instead supply cargoes from either the North West Shelf (NWS) LNG project or the Wheatstone LNG to meet its contractual commitments for scheduled deliveries in October and November. Originally this event had been seen as bullish for North American gas, but this is no longer the case if LNG is supplied by another nearby project.

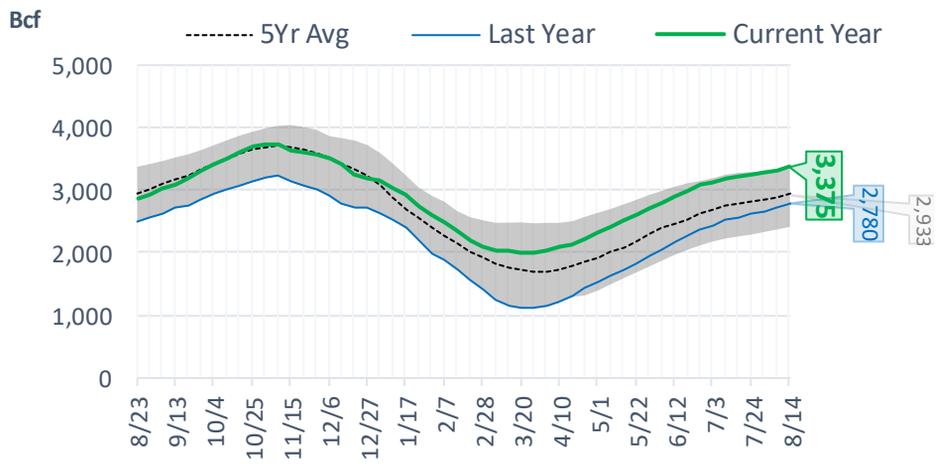


EIA Storage Report

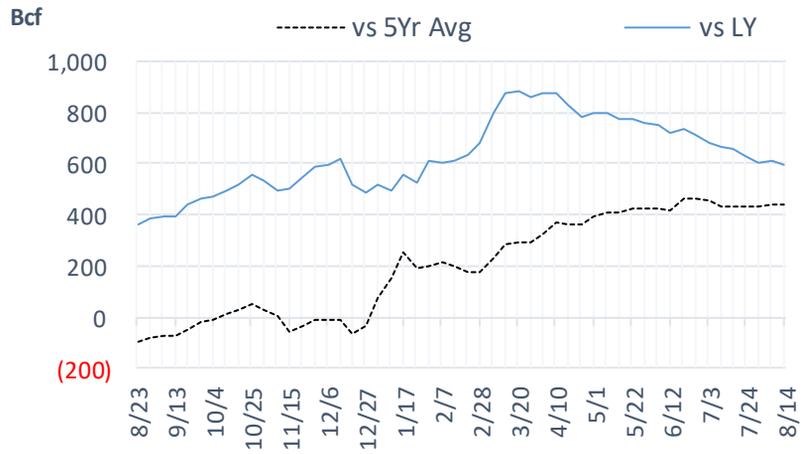
Total Lower 48 YoY Weekly Change



Total Lower 48 Storage Levels



Total Lower 48 LY Surplus/Deficit

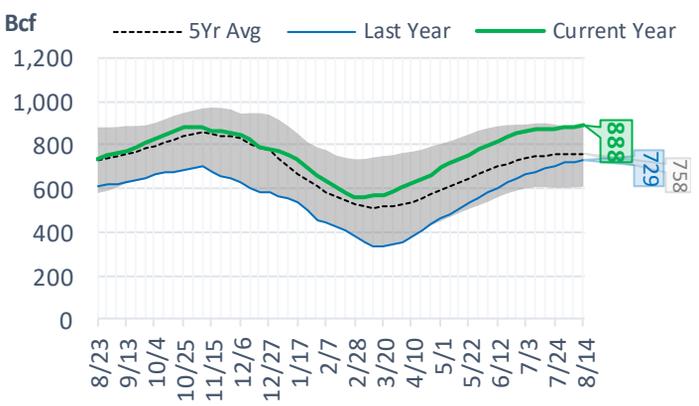


The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

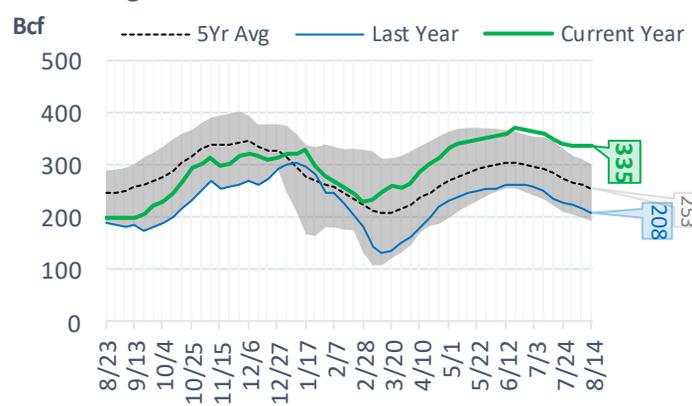
Natural Gas Storage Stats - Last 5 Weeks

Week Ending	Current 14-Aug	Week - 1 7-Aug	Week - 2 31-Jul	Week - 3 24-Jul	Week - 4 17-Jul	Week - 5 10-Jul
Total Lower 48 Storage Level	3375	3332	3274	3241	3215	3178
Weekly Change	+43	+58	+33	+26	+37	+45
vs LY	+595	+608	+601	+626	+656	+663
vs 5Yr Avg	+442	+443	+429	+429	+436	+436
S. Central Salt Storage Level	335	337	336	339	349	359
Weekly Change	-2	+1	-3	-10	-10	-5
vs LY	+127	+121	+114	+112	+115	+110
vs 5Yr Avg	+82	+76	+70	+65	+65	+66
S. Central NonSalt Storage Level	888	883	878	872	872	869
Weekly Change	+5	+5	+6	0	+3	+7
vs LY	+159	+160	+162	+169	+183	+190
vs 5Yr Avg	+130	+126	+124	+118	+120	+121
Midwest Storage Level	880	856	830	815	799	780
Weekly Change	+24	+26	+15	+16	+19	+19
vs LY	+129	+135	+136	+146	+156	+162
vs 5Yr Avg	+123	+124	+123	+128	+132	+133
East Storage Level	750	738	718	706	693	672
Weekly Change	+12	+20	+12	+13	+21	+15
vs LY	+97	+110	+110	+115	+122	+116
vs 5Yr Avg	+62	+72	+73	+80	+86	+84
Mountain Storage Level	209	206	202	196	190	186
Weekly Change	+3	+4	+6	+6	+4	+6
vs LY	+42	+43	+42	+41	+40	+41
vs 5Yr Avg	+25	+25	+23	+20	+16	+15
Pacific Storage Level	313	314	311	313	311	312
Weekly Change	-1	+3	-2	+2	-1	+2
vs LY	+40	+42	+40	+43	+41	+45

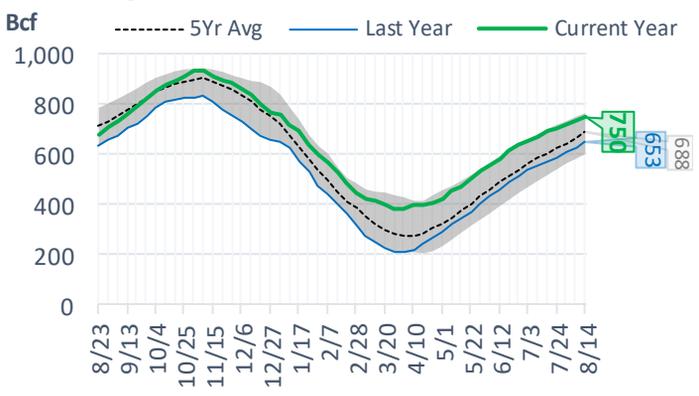
NonSalt Storage Levels



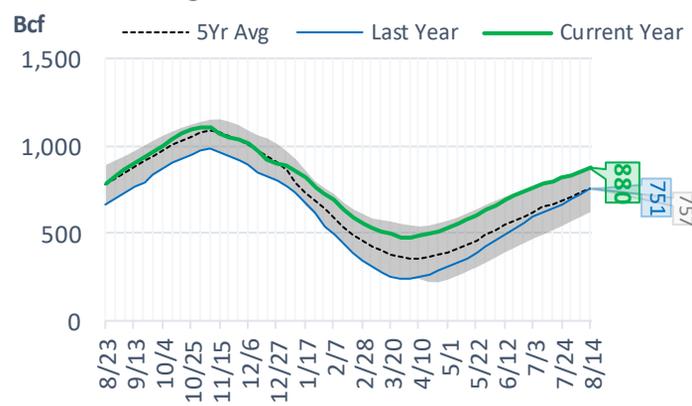
Salt Storage Levels



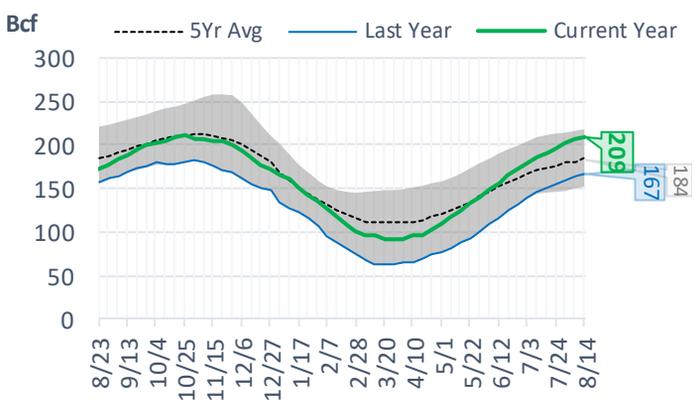
East Storage Levels



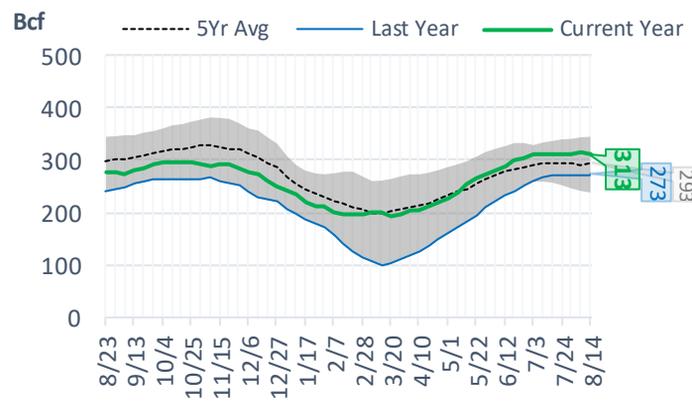
Midwest Storage Levels



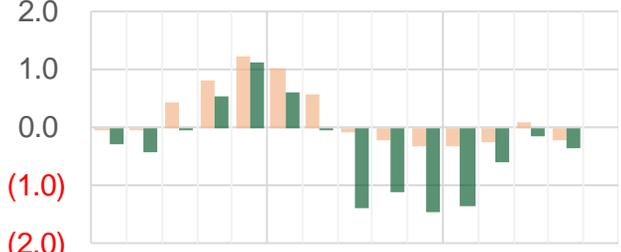
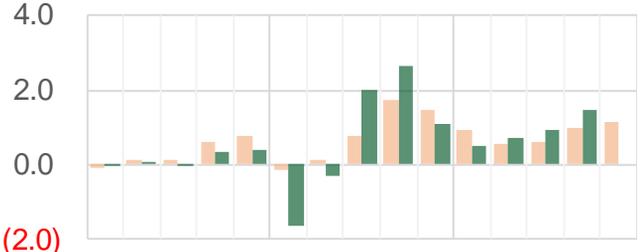
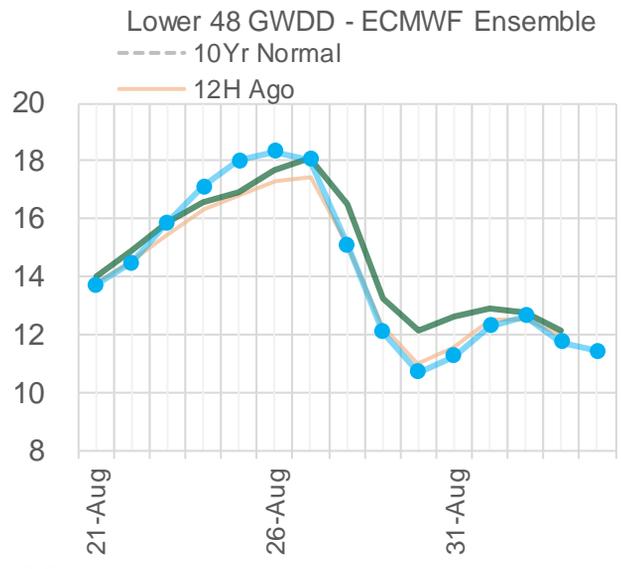
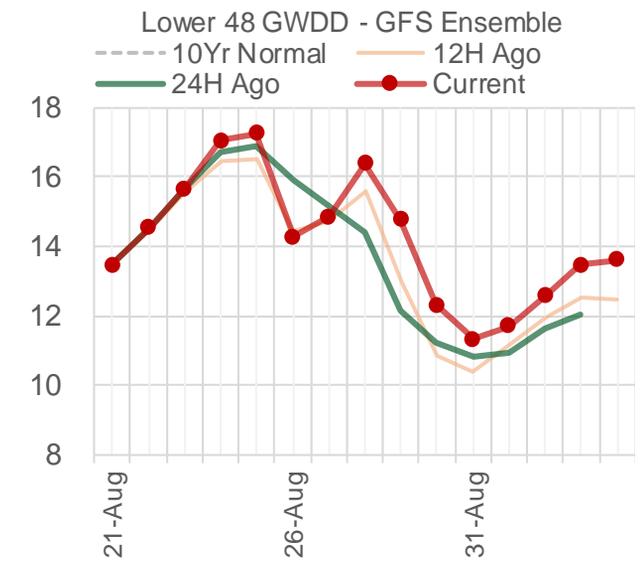
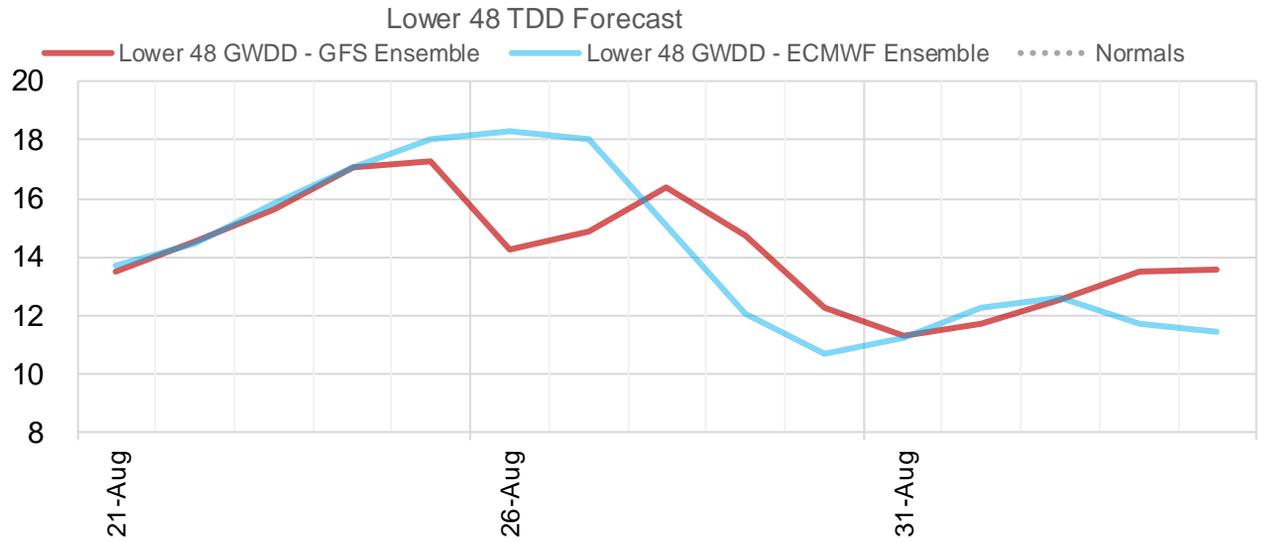
Mountain Storage Levels



Pacific Storage Levels



Current Short-term Weather Model Outlooks (00z)



Source: WSI, Bloomberg

The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

EIA Storage Week Balances

	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	WoW	vs. 4W
Lower 48 Dry Production	85.8	86.6	86.5	86.6	86.7	86.5	▼ -0.2	▼ -0.1
Canadian Imports	4.5	4.4	4.5	4.6	5.0	4.7	▼ -0.3	▲ 0.1
L48 Power	42.9	45.4	45.5	40.8	43.0	40.1	▼ -2.8	-3.6
L48 Residential & Commercial	7.9	8.1	8.1	7.7	7.8	7.9	▲ 0.1	▼ -0.1
L48 Industrial	18.1	17.5	17.2	18.5	18.6	19.2	▲ 0.7	▲ 1.3
L48 Lease and Plant Fuel	4.8	4.8	4.8	4.8	4.8	4.8	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.3	2.4	2.4	2.2	2.3	2.2	▼ -0.1	▼ -0.1
L48 Regional Gas Consumption	76.1	78.2	78.2	74.0	76.5	74.2	▼ -2.3	▼ -2.5
Net LNG Exports	3.3	3.6	3.1	3.9	4.4	4.7	▲ 0.4	▲ 1.0
Total Mexican Exports	6.2	6.4	6.2	6.1	6.0	6.2	▲ 0.2	▲ 0.0
Implied Daily Storage Activity	4.8	2.7	3.6	7.2	4.8	6.0	1.2	
EIA Reported Daily Storage Activity	5.3	3.7	4.7	8.3	6.1			
Daily Model Error	-0.5	-1.0	-1.2	-1.1	-1.3			

Monthly Balances

	2Yr Ago Aug-18	LY Aug-19	Apr-20	May-20	Jun-20	Jul-20	MTD Aug-20	MoM	vs. LY
Lower 48 Dry Production	83.2	92.5	91.6	85.8	85.1	86.2	86.4	▲ 0.2	-6.0
Canadian Imports	5.0	4.4	3.9	3.9	4.0	4.4	4.8	▲ 0.5	▲ 0.5
L48 Power	38.2	41.1	25.5	26.9	34.5	43.7	40.9	▼ -2.8	▼ -0.2
L48 Residential & Commercial	7.8	7.8	20.4	13.0	8.6	8.0	7.8	▼ -0.2	▼ -0.1
L48 Industrial	20.2	22.0	20.6	18.8	18.5	17.9	19.0	▲ 1.1	▼ -2.9
L48 Lease and Plant Fuel	4.7	5.1	5.1	4.8	4.8	4.8	4.8	▼ 0.0	▼ -0.3
L48 Pipeline Distribution	2.1	2.3	2.1	1.9	2.1	2.4	2.2	▼ -0.1	▼ 0.0
L48 Regional Gas Consumption	73.0	78.2	73.7	65.4	68.4	76.8	74.7	▼ -2.1	▼ -3.5
Net LNG Exports	3.3	5.2	8.2	6.7	4.0	3.3	4.5	▲ 1.2	▼ -0.7
Total Mexican Exports	5.0	5.4	4.9	4.9	5.7	6.1	6.1	▲ 0.0	▲ 0.7
Implied Daily Storage Activity	6.9	8.0	8.7	12.7	10.9	4.4	6.0		
EIA Reported Daily Storage Activity									
Daily Model Error									

Source: Bloomberg, analytix.ai

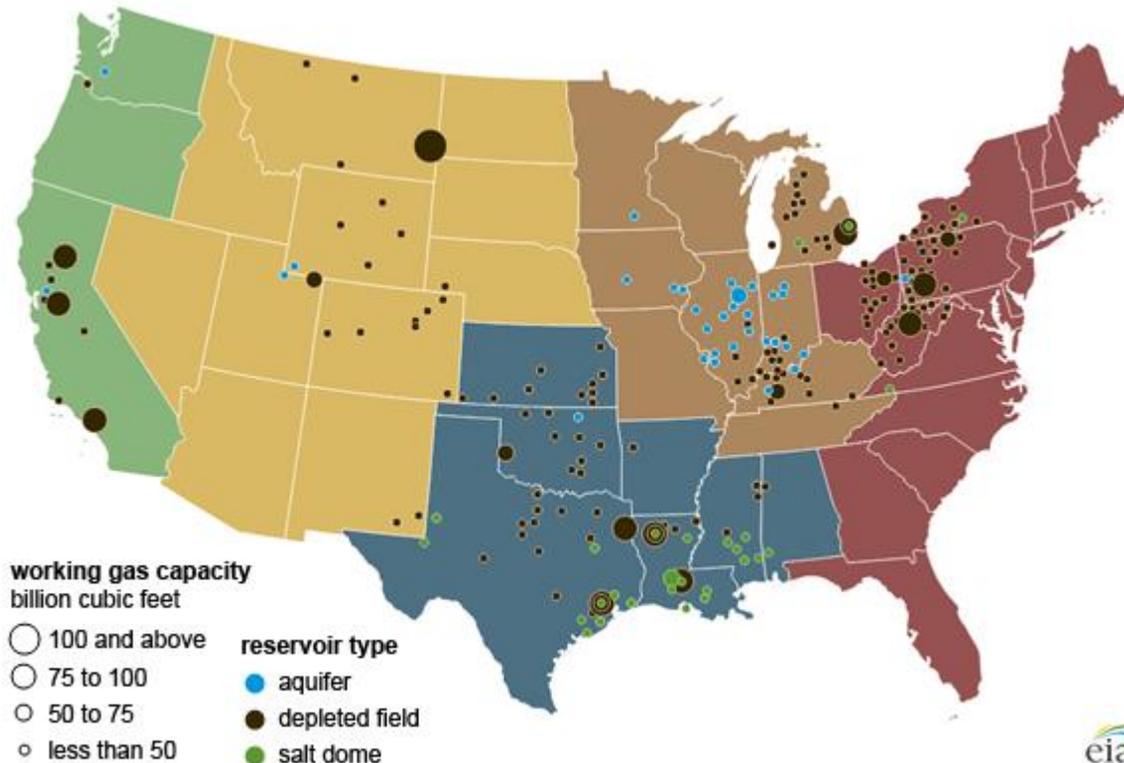
Regional S/D Models Storage Projection

Week Ending 21-Aug

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	5.8	1.4	7.2	50
East	2.0	2.0	4.0	28
Midwest	3.2	0.6	3.8	27
Mountain	3.0	-2.5	0.5	3
South Central	-2.1	2.0	-0.1	-1
Pacific	-0.4	-0.7	-1.1	-8

*Adjustment Factor is calculated based on historical regional deltas

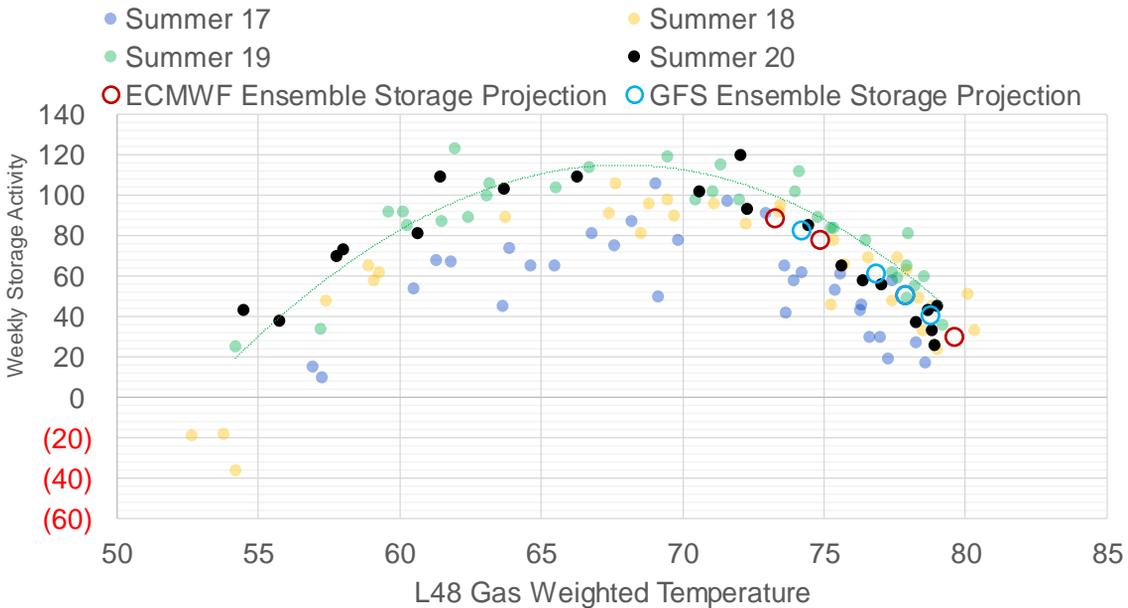
U.S. underground natural gas storage facilities by type (July 2015)



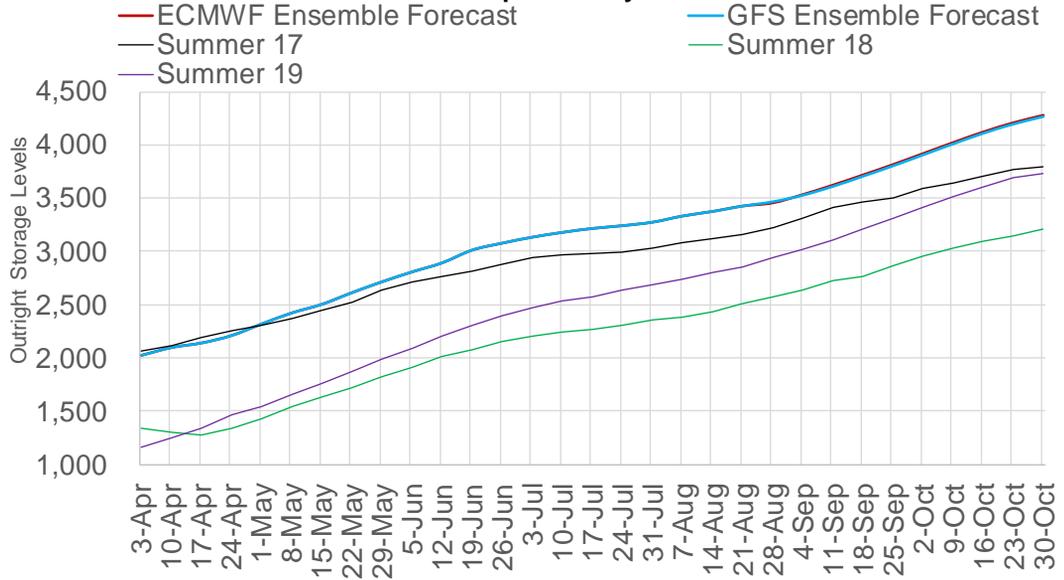
Weather Model Storage Projection

Next report and beyond	
Week Ending	Week Storage Projection
28-Aug	35
4-Sep	70
11-Sep	86

Weather Storage Model - Next 4 Week Forecast



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



The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

Weather Model Storage Projection to End of Season

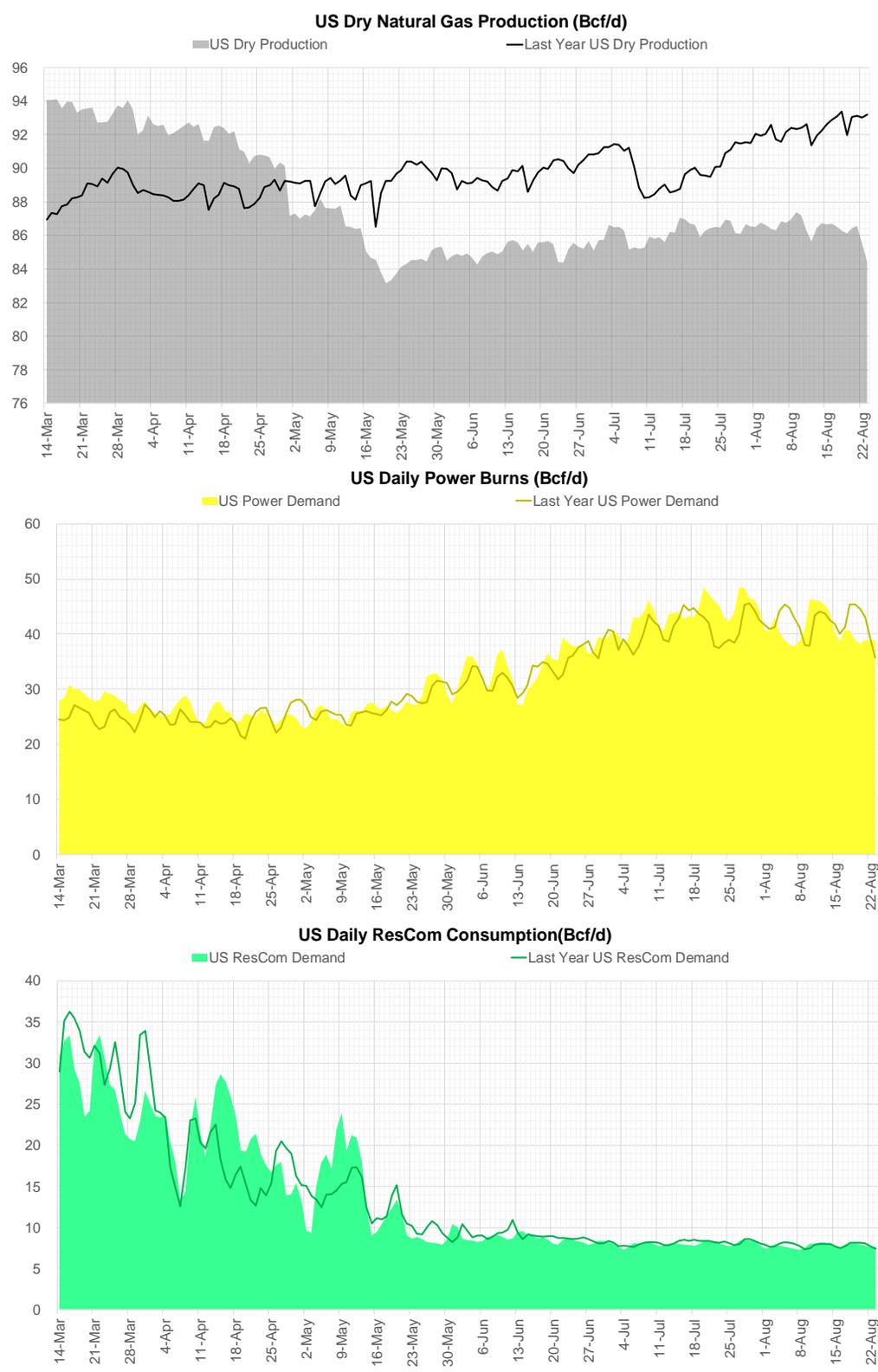
L48 Storage Trajectory from Weather Model

Forecast Storage Levels

	Report		vs 5Yr	Reported	Estimate	Forecast Storage Levels			
	Storage Level	vs. LY	Avg	Chg	Chg *	LY Chg	vs. LY	5Yr Avg Chg	vs. 5Yr
3-Apr-20	2024	876	324	38		25	13	6	32
10-Apr-20	2097	876	370	73		73	0	27	46
17-Apr-20	2140	827	364	43		92	(49)	49	(6)
24-Apr-20	2210	783	360	70		114	(44)	74	(4)
1-May-20	2319	796	395	109		96	13	74	35
8-May-20	2422	799	413	103		100	3	85	18
15-May-20	2503	779	407	81		101	(20)	87	(6)
22-May-20	2612	778	423	109		110	(1)	93	16
29-May-20	2714	762	422	102		118	(16)	103	(1)
5-Jun-20	2807	748	421	93		107	(14)	94	(1)
12-Jun-20	2892	722	419	85		111	(26)	87	(2)
19-Jun-20	3012	739	466	120		103	17	73	47
26-Jun-20	3077	712	466	65		92	(27)	65	0
3-Jul-20	3133	685	454	56		83	(27)	68	(12)
10-Jul-20	3178	663	436	45		67	(22)	63	(18)
17-Jul-20	3215	656	436	37		44	(7)	37	0
24-Jul-20	3241	626	429	26		56	(30)	33	(7)
31-Jul-20	3274	601	429	33		58	(25)	33	0
7-Aug-20	3332	608	443	58		51	7	44	14
14-Aug-20	3375	595	442	43		56	(13)	44	(1)
21-Aug-20					51	60	(9)	49	2
28-Aug-20					35	77	(42)	66	(31)
4-Sep-20					70	80	(10)	68	2
11-Sep-20					86	82	4	77	9
18-Sep-20					95	97	(2)	80	15
25-Sep-20					98	109	(11)	78	20
2-Oct-20					103	102	1	86	17
9-Oct-20					103	102	1	87	16
16-Oct-20					99	92	7	75	24
23-Oct-20					86	89	(3)	67	19
30-Oct-20					71	49	22	52	19
			2286	2596	(310)	2024	262		

* first 15D change is an average of the GFS Ensemble and ECMWF Ensemble

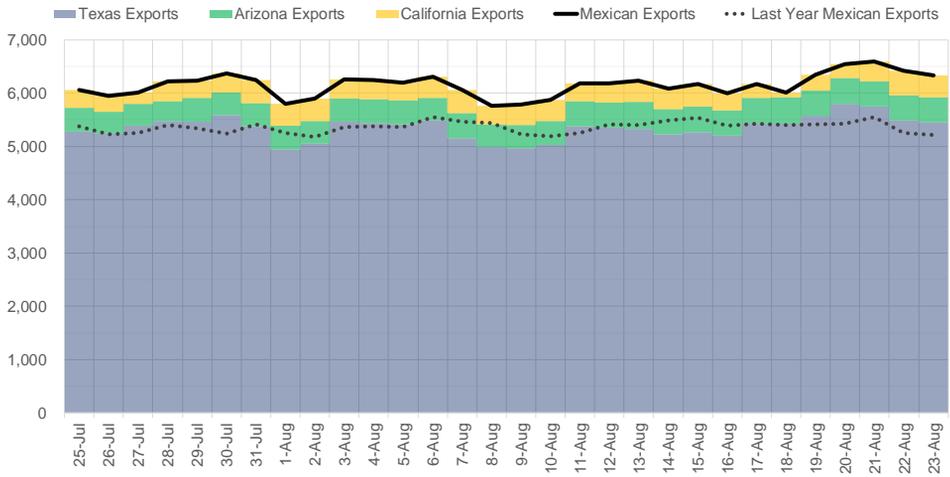
Supply – Demand Trends



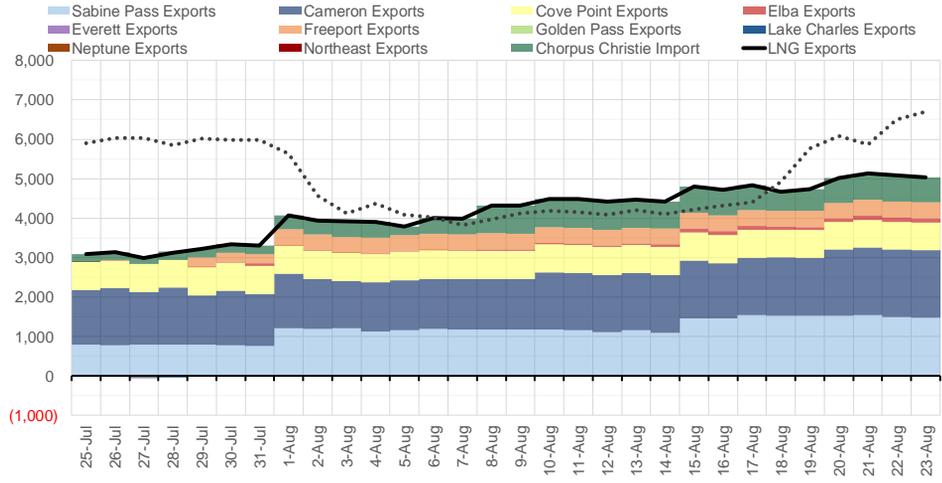
Source: Bloomberg

The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

Mexican Exports - Last 30 days (MMcf/d)



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



Source: Bloomberg

The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.

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

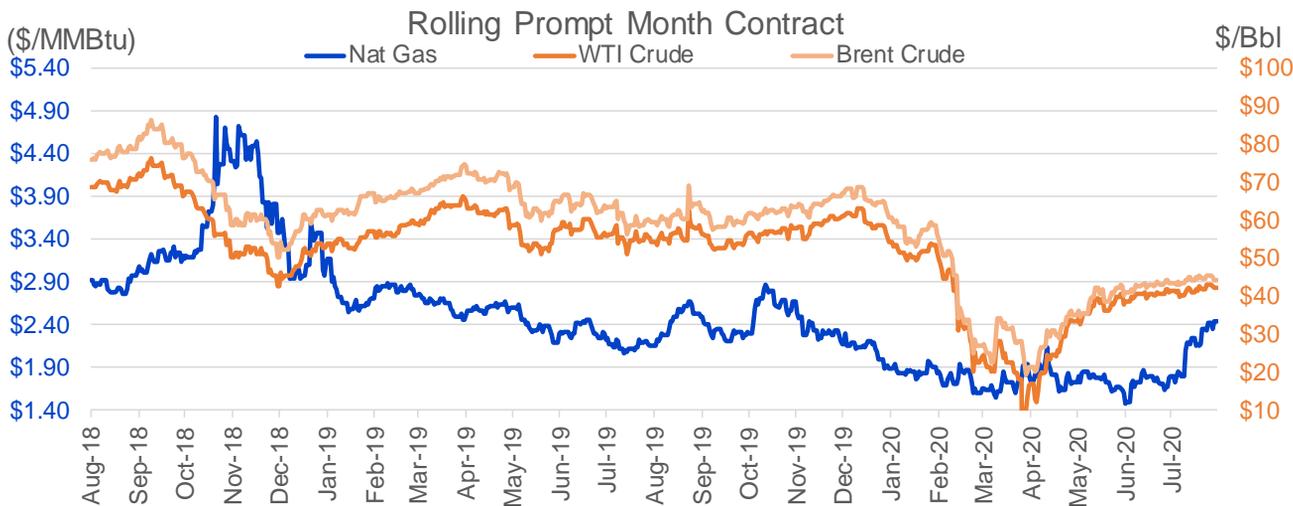
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
12	2020	P	1.50	9000	9	2020	C	2.50	49730
9	2020	P	2.20	5738	10	2020	P	1.50	47284
10	2020	C	3.25	5139	10	2020	C	2.75	45078
10	2020	C	3.50	4407	10	2020	C	2.50	40077
12	2020	P	2.00	4200	3	2021	P	2.00	35392
9	2020	P	2.25	4180	10	2020	C	3.00	34725
10	2020	P	2.25	4170	10	2020	P	1.60	33762
9	2020	C	2.50	4107	10	2020	P	2.00	33433
9	2020	C	2.75	3554	10	2020	P	1.25	28752
10	2020	P	2.00	3233	10	2020	P	1.75	28330
9	2020	P	2.15	3151	9	2020	C	2.75	24873
9	2020	P	2.35	2710	9	2020	P	1.00	24289
3	2021	C	10.00	2500	10	2020	P	1.00	24016
10	2020	C	3.00	2402	11	2020	C	3.50	23821
9	2020	P	2.40	2125	9	2020	P	1.50	23369
10	2020	P	1.75	2006	9	2020	C	3.00	23223
11	2020	P	2.50	1850	9	2020	P	1.20	22867
9	2020	P	2.10	1664	9	2020	C	2.00	22545
9	2020	C	2.55	1631	3	2021	C	3.00	22139
10	2020	P	1.40	1501	9	2020	P	2.00	22137
9	2020	P	2.30	1448	10	2020	C	2.10	21985
10	2020	P	2.50	1267	9	2020	P	1.75	21682
2	2021	C	7.00	1251	10	2020	C	3.50	20900
1	2021	C	7.00	1250	10	2020	P	2.10	20742
9	2020	C	2.60	1193	12	2020	P	2.00	20623
1	2022	C	5.00	1150	1	2021	C	3.50	20166
2	2022	C	5.00	1150	3	2021	C	6.00	20104
3	2022	C	5.00	1150	1	2021	C	4.50	19866
11	2020	C	3.50	1135	9	2020	C	2.25	19671
11	2020	P	2.00	1113	9	2020	P	1.30	19362
10	2020	C	2.75	1112	9	2020	P	1.25	19214
1	2021	C	4.25	1100	10	2020	P	1.30	19116
1	2021	C	4.50	1100	10	2020	C	2.00	18660
11	2020	P	2.25	964	3	2021	C	3.50	18650
12	2020	C	3.25	950	11	2020	C	3.00	17425
9	2020	C	2.40	886	10	2020	C	2.25	17314
9	2020	C	2.35	879	4	2021	C	5.00	16831
11	2020	C	3.25	879	1	2021	C	3.00	16668
10	2020	P	2.40	835	10	2020	P	1.80	16537
10	2020	P	2.35	795	10	2020	C	3.25	16515
9	2020	P	2.00	746	2	2021	C	5.00	15819
10	2020	C	2.85	708	11	2020	C	2.75	15733
9	2020	C	2.80	697	11	2020	C	3.25	15083
12	2020	P	2.50	600	4	2021	C	3.00	14824
10	2020	C	2.80	576	10	2020	P	2.25	14633
10	2020	P	2.15	569	1	2021	C	3.75	14327
12	2020	P	2.75	550	1	2021	P	2.25	14304
9	2020	C	2.70	538	1	2021	C	5.00	14271
11	2020	P	1.75	536	9	2020	P	2.10	14126
					10	2020	C	2.4	14052

Source: CME, Nasdaq, ICE

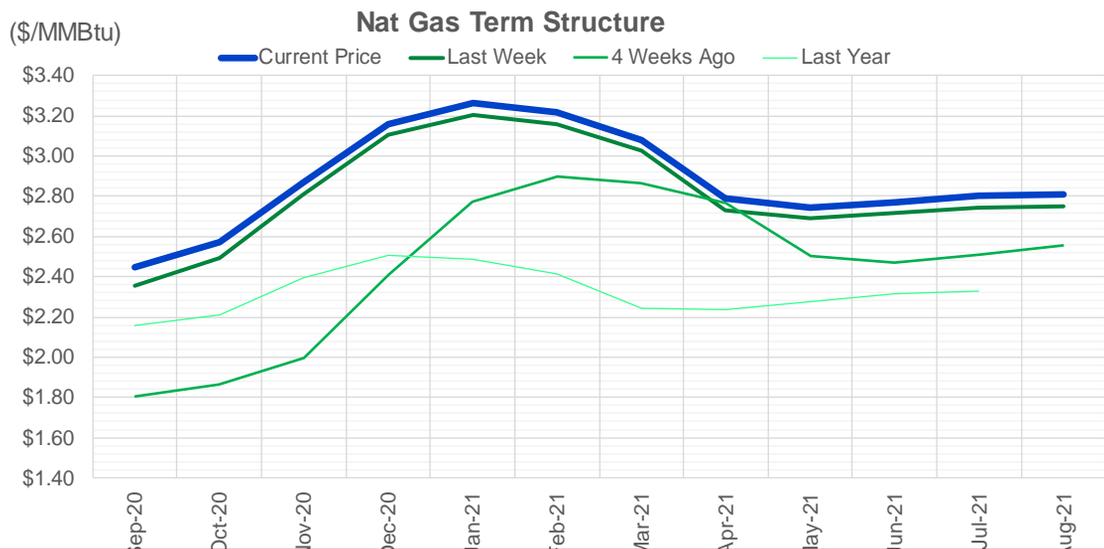
Nat Gas Futures Open Interest CME, ICE and Nasdaq Combined

CME Henry Hub Futures (10,000 MMBtu)				ICE Henry Hub Futures Contract Equivalent (10,000 MM			
	Current	Prior	Daily Change	FOR JUNE 26	Current	Prior	Daily Change
SEP 20	52953	78283	-25330	SEP 20	73034	68837	4197.25
OCT 20	217945	213620	4325	OCT 20	84031	84986	-955
NOV 20	196107	191387	4720	NOV 20	75891	75661	229.5
DEC 20	100160	99170	990	DEC 20	72914	72732	181.5
JAN 21	129878	128347	1531	JAN 21	88120	87993	127
FEB 21	44383	43971	412	FEB 21	54936	54410	526
MAR 21	84093	81577	2516	MAR 21	72484	71651	833
APR 21	78350	78148	202	APR 21	62320	61909	411.5
MAY 21	45990	45821	169	MAY 21	51332	51053	279.75
JUN 21	24733	24790	-57	JUN 21	48742	48641	101.25
JUL 21	18973	18535	438	JUL 21	50261	50215	45.75
AUG 21	18588	18746	-158	AUG 21	49591	49526	65.25
SEP 21	24137	22572	1565	SEP 21	46654	47115	-461
OCT 21	58051	57414	637	OCT 21	68543	68422	120.75
NOV 21	26494	26305	189	NOV 21	41396	41397	-0.75
DEC 21	20960	20945	15	DEC 21	41711	41646	65.25
JAN 22	19714	19405	309	JAN 22	35037	35138	-101
FEB 22	11218	11157	61	FEB 22	29744	29697	47
MAR 22	16246	16743	-497	MAR 22	32672	32583	89.25
APR 22	18464	18592	-128	APR 22	32466	32355	110.5
MAY 22	5582	5526	56	MAY 22	23717	23595	122
JUN 22	2925	2898	27	JUN 22	23001	22917	84
JUL 22	2505	2183	322	JUL 22	23415	23250	165
AUG 22	1982	1708	274	AUG 22	23306	23219	86.75
SEP 22	2046	2111	-65	SEP 22	22451	22367	84
OCT 22	2864	2838	26	OCT 22	23965	23891	74
NOV 22	2012	1982	30	NOV 22	21666	21644	21.5
DEC 22	1965	1937	28	DEC 22	22385	22377	7.25
JAN 23	2768	2768	0	JAN 23	12137	12095	41.5
FEB 23	832	832	0	FEB 23	11158	11126	32

Source: CME, ICE



The risk of trading futures and options and other derivatives involves a substantial risk of loss and is not suitable for all persons. Each person must consider whether a particular trade, combination of trades, or strategy is suitable for that person's financial means and objectives. Past results are not necessarily indicative of future results. This communication may contain links to third party websites which are not under the control of and are not maintained by ION Energy Group, and ION Energy Group is not responsible for their content.



	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
Current Price	\$2.448	\$2.573	\$2.866	\$3.158	\$3.266	\$3.216	\$3.079	\$2.788	\$2.745	\$2.769	\$2.802	\$2.810
Last Week	\$2.356	\$2.495	\$2.811	\$3.104	\$3.203	\$3.156	\$3.026	\$2.732	\$2.689	\$2.714	\$2.746	\$2.752
vs. Last Week	\$0.092	\$0.078	\$0.055	\$0.054	\$0.063	\$0.060	\$0.053	\$0.056	\$0.056	\$0.055	\$0.056	\$0.058
4 Weeks Ago	\$1.808	\$1.867	\$1.994	\$2.410	\$2.773	\$2.898	\$2.865	\$2.764	\$2.505	\$2.472	\$2.511	\$2.557
vs. 4 Weeks Ago	\$0.640	\$0.706	\$0.872	\$0.748	\$0.493	\$0.318	\$0.214	\$0.024	\$0.240	\$0.297	\$0.291	\$0.253
Last Year	\$2.152	\$2.156	\$2.212	\$2.395	\$2.508	\$2.484	\$2.414	\$2.245	\$2.235	\$2.275	\$2.318	\$2.327
vs. Last Year	\$0.296	\$0.417	\$0.654	\$0.763	\$0.758	\$0.732	\$0.665	\$0.543	\$0.510	\$0.494	\$0.484	\$0.483

	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.48	▼ -0.007	▼ -0.085	▼ -0.081
NatGas Mar/Apr	\$/MMBtu	-0.291	▲ 0.003	▼ -0.550	▼ -0.545
NatGas Oct/Nov	\$/MMBtu	0.29	▼ -0.023	▼ -0.123	▲ 0.232
NatGas Oct/Jan	\$/MMBtu	0.69	▼ -0.015	▼ -0.211	▲ 0.358
WTI Crude	\$/Bbl	42.34	▲ 0.330	▲ 1.050	▼ -11.830
Brent Crude	\$/Bbl	44.35	▼ -0.450	▲ 1.010	▼ -14.990
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	120.80	▼ -2.870	▼ -4.830	▼ -60.760
Propane, Mt. Bel	cents/Gallon	0.51	▲ 0.004	▲ 0.009	▲ 0.104
Ethane, Mt. Bel	cents/Gallon	0.24	▲ 0.007	▲ 0.028	▲ 0.089
Coal, PRB	\$/MTon	12.30	▲ 0.000	▲ 0.000	▲ 0.200
Coal, ILB	\$/MTon	31.05	▲ 0.000	▲ 0.000	▼ -5.000

Source: CME, Bloomberg

Baker Hughes Rig Counts

Oil rigs increased by 11, while nat gas decreased by -1. The weekly changes for the major basins are listed below.

Rotary Rig Count						Baker Hughes 
8/21/2020						
U.S. Breakout Information	This Week	+/-	Last Week	+/-	Year Ago	
Oil	183	11	172	-571	754	
Gas	69	-1	70	-93	162	
Miscellaneous	2	0	2	2	0	
Directional	20	-4	24	-49	69	
Horizontal	221	14	207	-576	797	
Vertical	13	0	13	-37	50	
Canada Breakout	This Week	+/-	Last Week	+/-	Year Ago	
Oil	20	1	19	-75	95	
Gas	36	1	35	-8	44	
Major Basin Variances	This Week	+/-	Last Week	+/-	Year Ago	
Ardmore Woodford	0	0	0	-4	4	
Arkoma Woodford	1	0	1	-2	3	
Barnett	0	0	0	-1	1	
Cana Woodford	6	0	6	-39	45	
DJ-Niobrara	4	0	4	-21	25	
Eagle Ford	9	-2	11	-58	67	
Granite Wash	1	0	1	-3	4	
Haynesville	32	0	32	-18	50	
Marcellus	26	1	25	-27	53	
Mississippian	0	0	0	-3	3	
Permian	127	10	117	-307	434	
Utica	5	-1	6	-8	13	
Williston	10	-1	11	-38	48	