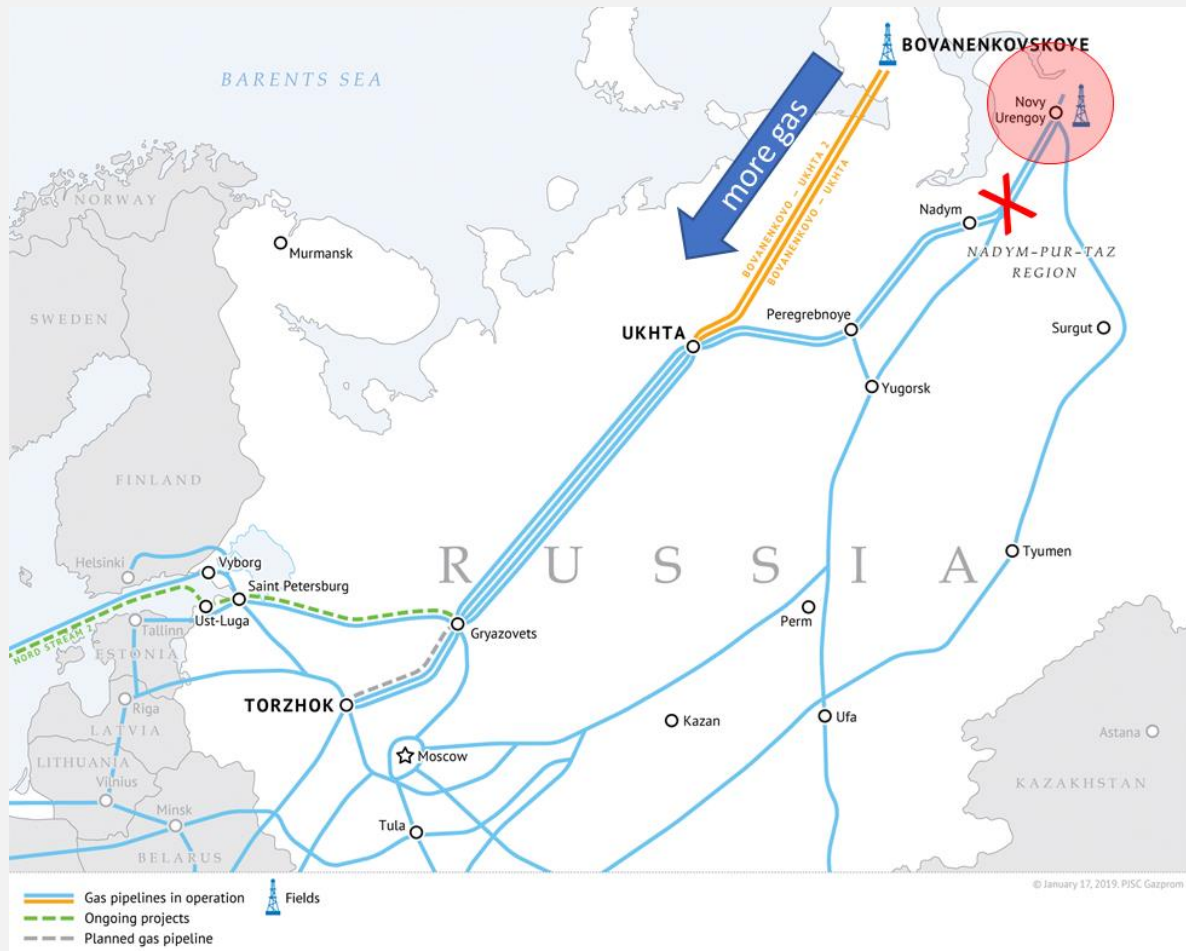


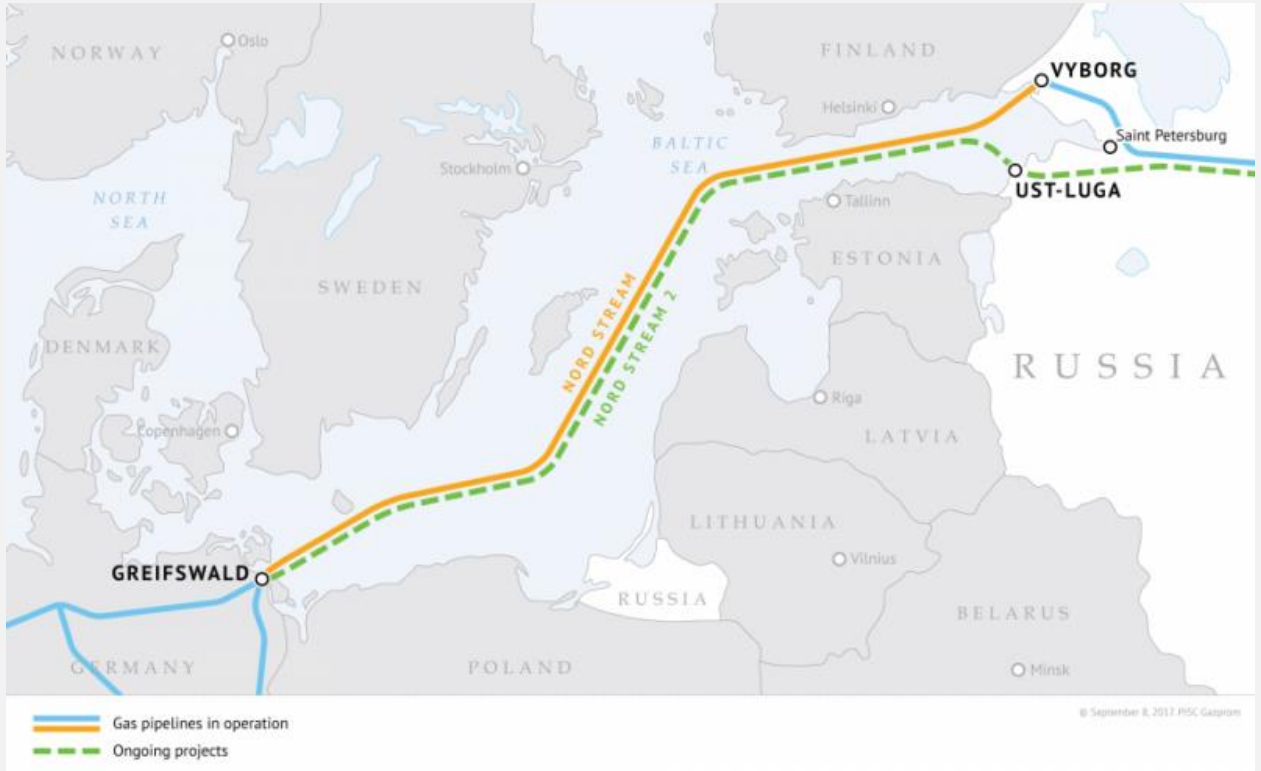
Global gas and LNG markets saw considerable price volatility this week as falling flows on the Yamal pipeline initially sparked fears of greater-than-expected supply tightness in Europe. Flow declined earlier due to a fire that occurred on August 5th at the Gazprom Novy Urengoy condensate processing facility in the Yamal-Nenets Autonomous District. As of this week, the rumor is that flows are back up to normal levels from alternative sources.



The price spike due to the treatment plant incident quickly turned around by a dramatic sell-off following an announcement on Thursday from Gazprom regarding Nordstream 2 (NS2). They said that NS2 pipeline may carry 5.6 billion cubic meters (bcm) this year or 10% of the design capacity [55bcm]. This announcement sent both TTF and NBP prices lower, even though Gazprom did not give a start-up date though.

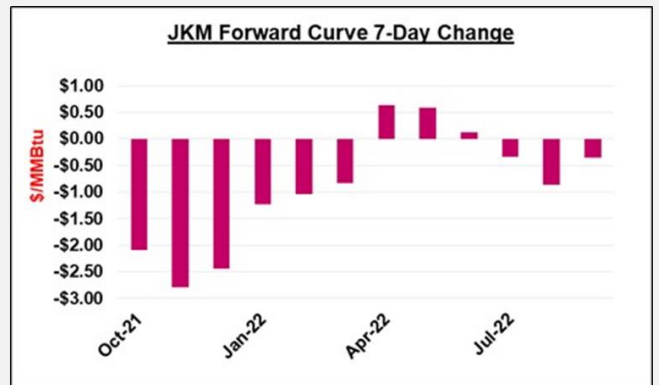
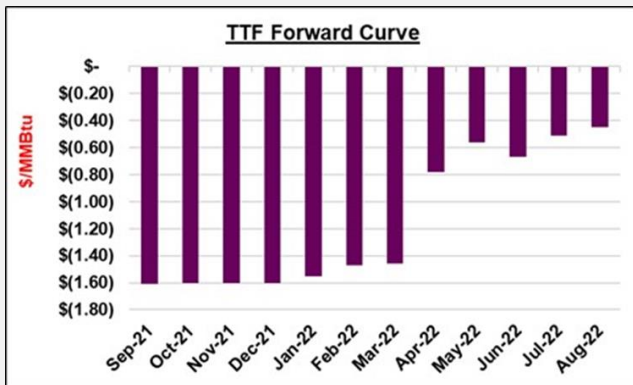
We should note that NS1 (which has an identical route and size to NS2) has been flowing for over a decade. According to Gazprom, it carried over 57.5bcm in 2018 and 2019 and over 58bcm in 2020. Between January-July 2021 it carried 33.7bcm, more than in the same period in 2020 and 2019.

NS2's design capacity is enough to carry around 12% of all the gas consumed in the EU and the UK in 2020, according to ICIS.



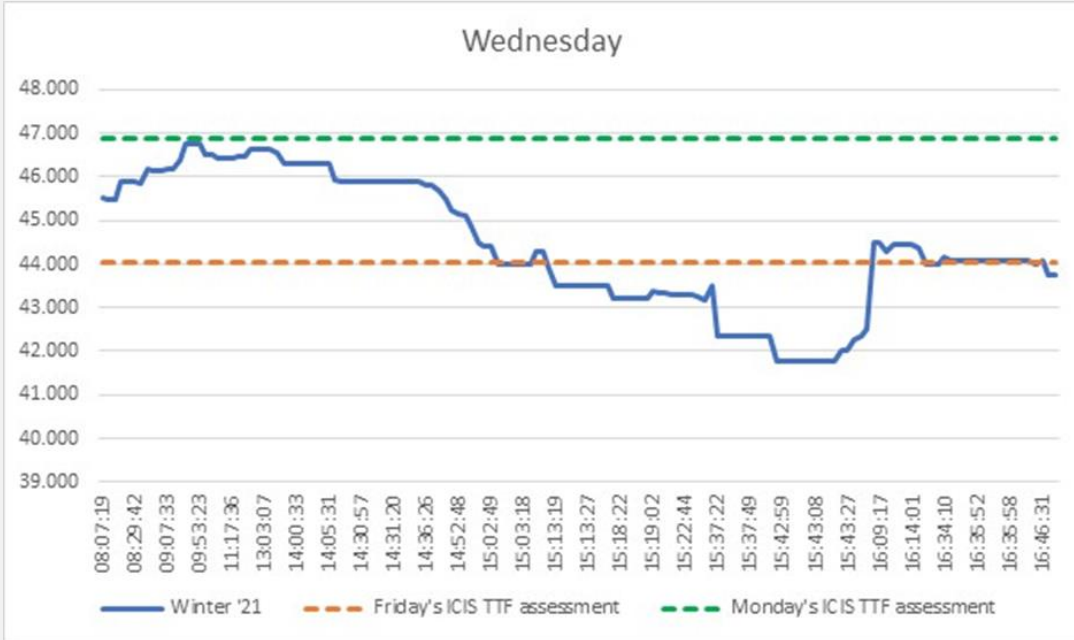
Gazprom owns both the pipeline and the gas that will flow in it- hence giving Gazprom too much control. The EU mandates a separation between the pipeline owner and gas supplier and therefore it remains uncertain how the pipeline will comply with these rules.

Here are some charts from Platts that show the week-on-week change in the forward TTF and JKM forward curve with all this market news.



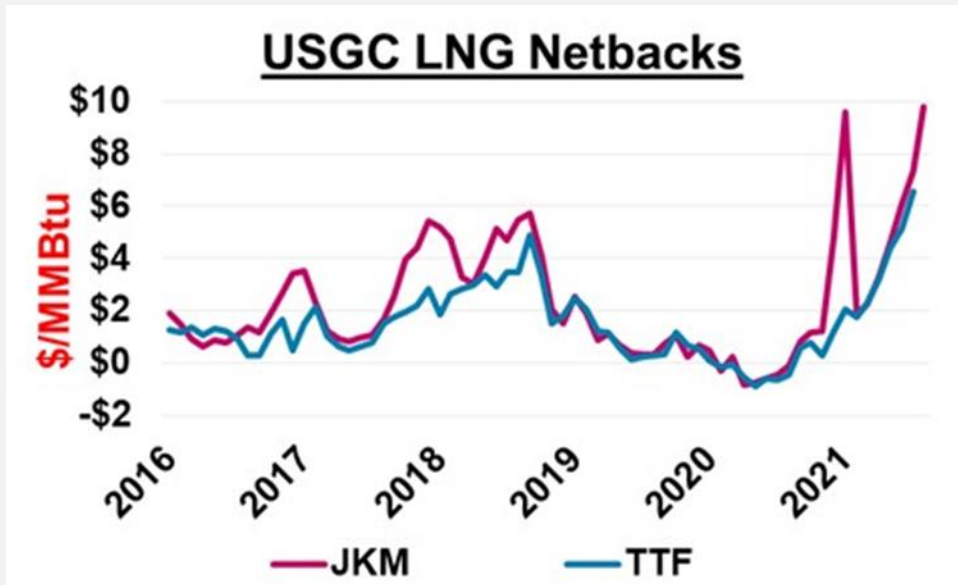
Source: Platts

We should also mention the extremely volatile trading session on August 18th. For a brief period, a data glitch on GASCADE showed NS2 flowing into Germany. This sent TTF prices diving intraday before slightly correcting itself after the bug was fixed.



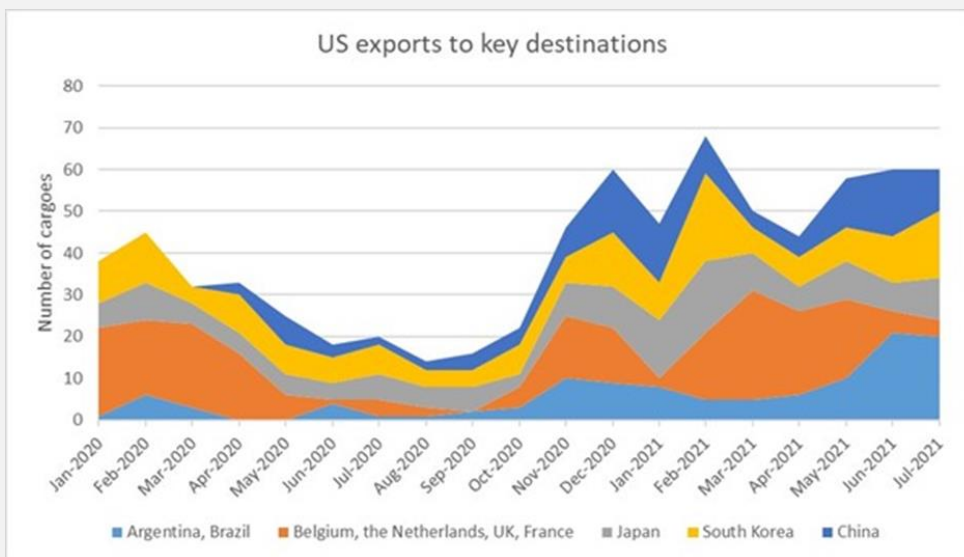
Source: ICIS

The JKM netback is maintaining a strong premium to the TTF through the balance of the year, which suggests that few cargoes will be delivered to Europe. This was the case in June and July.



Source: Platts

Aside from Asia, Brazil has boosted its LNG imports this year with depleted hydro stocks due to a historic drought. Brazil was the second-largest importer of US LNG in July, behind South Korea, for the second month in a row with 900,000 tonnes, 17% of the total. This translated into the country's largest percentage share of US LNG since October 2017 at almost 21%.



Source: ICIS

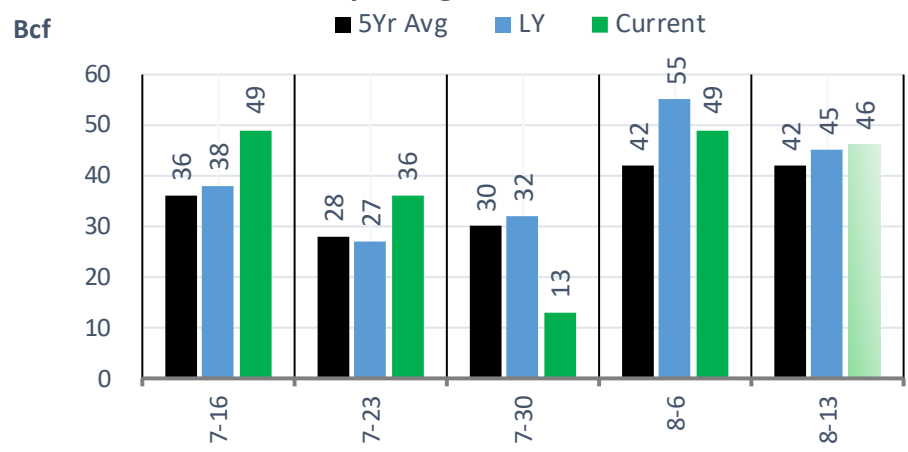
The increased competition for flexible LNG cargoes has left Europe in a bad position as it enters the winter season. Current storage levels are 62% utilized, which is 27% behind last year and 17% behind the 5Yr average.

European Natural Gas Storage Levels					
Country	Level (TWh) 2021-08-18	Capacity (TWh) 2021-08-18	% Utilization 2021-08-18	YoY	vs. 5Yr Avg
Europe	694.1	1112.7	62%	-27%	-17%
Germany	127.0	229.4	55%	-36%	-27%
Italy	156.6	197.7	79%	-12%	-7%
Netherlands Gas Storage (T	61.7	143.8	43%	-39%	-39%
France	90.6	128.5	71%	-21%	-8%
Austria	40.0	95.5	42%	-46%	-35%
Hungary	51.7	69.9	74%	-16%	7%
Slovakia	24.9	42.5	59%	-32%	-17%
Czech Republic Gas Storage	23.0	36.0	64%	-29%	-23%
Poland	31.2	35.8	87%	-5%	1%
Spain	24.5	34.2	72%	-18%	-4%
Romania	18.7	33.0	57%	-27%	-8%
Latvia	20.2	21.5	94%	94%	94%
United Kingdom Gas Storage	6.4	9.6	67%	-26%	-16%
Denmark	6.0	9.1	67%	-27%	-16%
Belgium	6.4	9.0	71%	-26%	-1%
Bulgaria	3.2	6.3	51%	-29%	-24%
Croatia	3.9	5.2	75%	-9%	-5%
Portugal	2.4	3.6	68%	-32%	-2%
Ireland	1.6	1.8	87%	87%	87%
Sweden	0.0	0.0	66%	-18%	24%
Non-EU					
Ukraine	133.3	318.2	42%	-37%	-11%

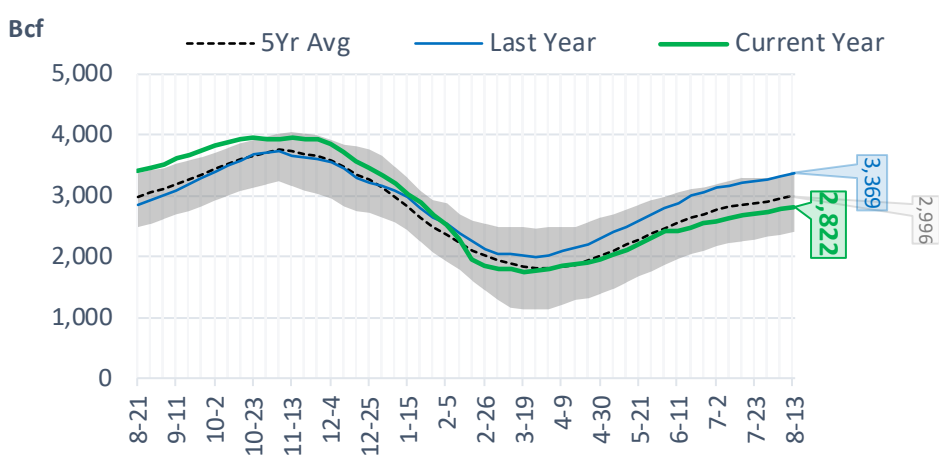
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## EIA Storage Report

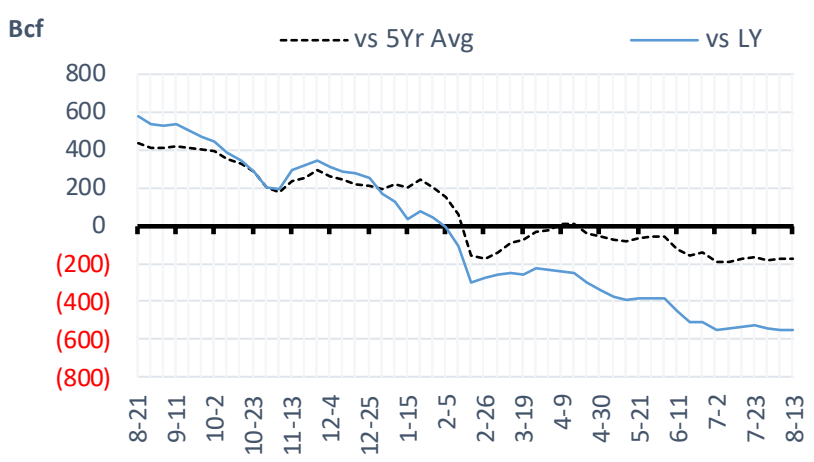
### Total Lower 48 YoY Weekly Change



### Total Lower 48 Storage Levels



### Total Lower 48 LY Surplus/Deficit



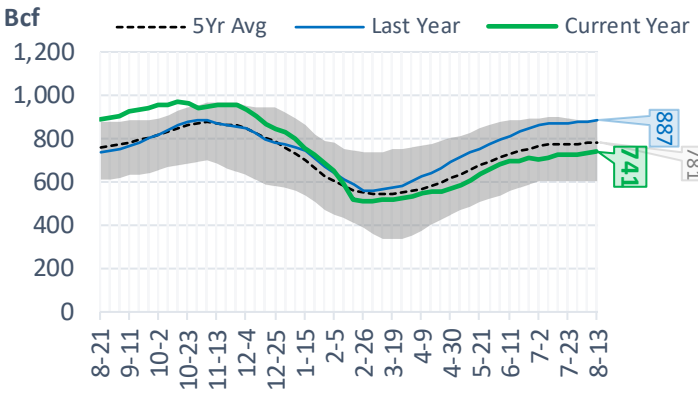
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## Natural Gas Storage Stats - Last 5 Weeks

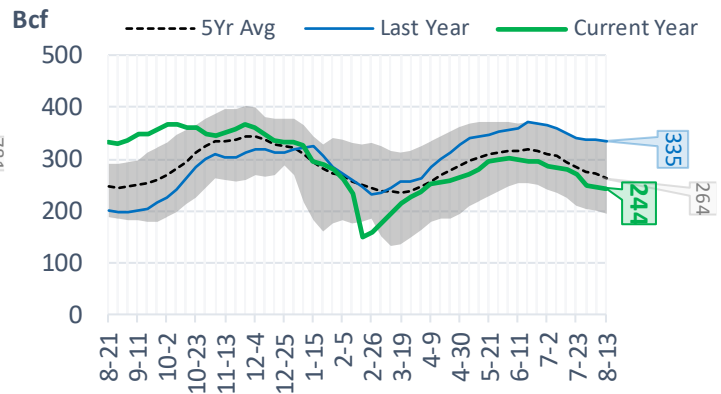
Week Ending	Current 13-Aug	Week - 1 6-Aug	Week - 2 30-Jul	Week - 3 23-Jul	Week - 4 16-Jul	Week - 5 9-Jul
<b>Total Lower 48 Storage Level</b>	<b>2822</b>	2776	2727	2714	2678	2629
Weekly Change	+46	+49	+13	+36	+49	+55
vs LY	-547	-548	-542	-523	-532	-543
vs 5Yr Avg	-174	-178	-185	-168	-176	-189
<b>S. Central Salt Storage Level</b>	<b>244</b>	247	250	269	279	283
Weekly Change	-3	-3	-19	-10	-4	-3
vs LY	-91	-90	-86	-71	-71	-77
vs 5Yr Avg	-20	-24	-26	-14	-16	-22
<b>S. Central NonSalt Storage Level</b>	<b>741</b>	732	726	729	723	712
Weekly Change	+9	+6	-3	+6	+11	+7
vs LY	-146	-150	-151	-143	-149	-156
vs 5Yr Avg	-40	-47	-51	-47	-53	-61
<b>Midwest Storage Level</b>	<b>765</b>	741	719	702	683	662
Weekly Change	+24	+22	+17	+19	+21	+24
vs LY	-112	-111	-109	-111	-113	-115
vs 5Yr Avg	-16	-16	-15	-13	-14	-16
<b>East Storage Level</b>	<b>645</b>	629	604	583	562	543
Weekly Change	+16	+25	+21	+21	+19	+22
vs LY	-103	-106	-112	-121	-128	-127
vs 5Yr Avg	-49	-45	-51	-53	-56	-55
<b>Mountain Storage Level</b>	<b>188</b>	185	184	184	183	180
Weekly Change	+3	+1	0	+1	+3	+3
vs LY	-21	-20	-17	-11	-6	-5
vs 5Yr Avg	-2	-2	0	+3	+5	+5
<b>Pacific Storage Level</b>	<b>240</b>	241	244	246	247	250
Weekly Change	-1	-3	-2	-1	-3	+4
vs LY	-73	-73	-67	-67	-64	-62
vs 5Yr Avg	-46	-45	-43	-43	-43	-40



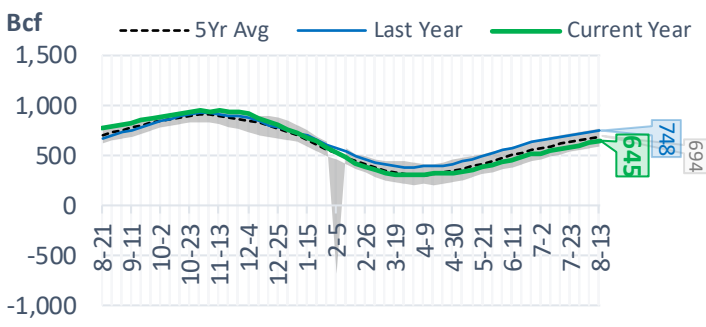
## NonSalt Storage Levels



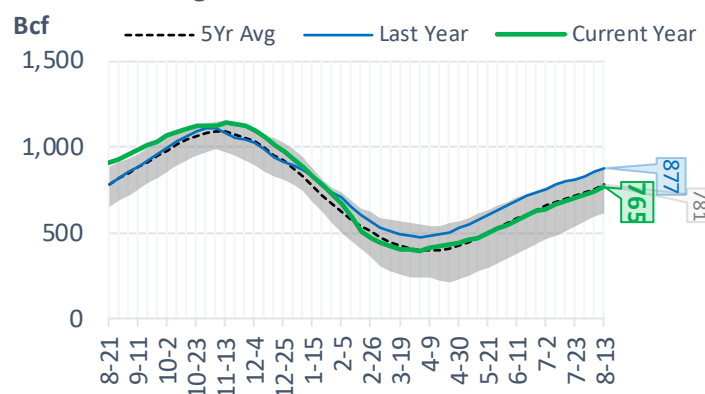
## Salt Storage Levels



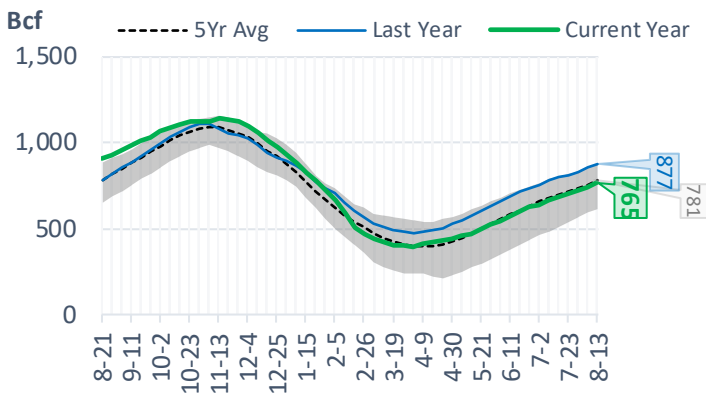
## East Storage Levels



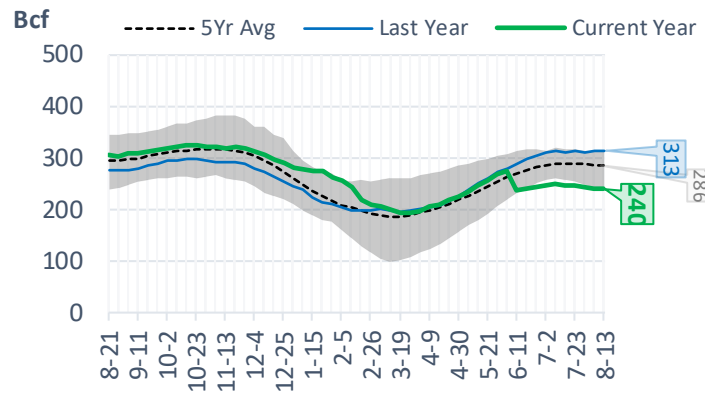
## Midwest Storage Levels



## Midwest Storage Levels



## Pacific Storage Levels



## EIA Storage Week Balances

	16-Jul	23-Jul	30-Jul	6-Aug	13-Aug	20-Aug	WoW	vs. 4W
<b>Lower 48 Dry Production</b>	<b>92.5</b>	<b>92.6</b>	<b>92.6</b>	<b>92.0</b>	<b>92.5</b>	<b>92.4</b>	▼-0.1	▼ 0.0
<b>Canadian Imports</b>	<b>5.2</b>	<b>4.9</b>	<b>5.5</b>	<b>5.1</b>	<b>5.2</b>	<b>5.0</b>	▼-0.2	▼-0.1
L48 Power	38.7	39.7	42.1	38.4	41.1	39.6	▼-1.6	▼-0.8
L48 Residential & Commercial	8.4	8.4	8.3	7.8	7.7	7.6	▼-0.1	▼-0.5
L48 Industrial	19.6	19.7	20.8	20.3	19.9	20.2	▲ 0.2	▼ 0.0
L48 Lease and Plant Fuel	5.1	5.1	5.1	5.1	5.1	5.1	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.2	2.3	2.4	2.2	2.4	2.3	▼-0.1	▼ 0.0
<b>L48 Regional Gas Consumption</b>	<b>74.1</b>	<b>75.2</b>	<b>78.7</b>	<b>73.8</b>	<b>76.2</b>	<b>74.7</b>	▼-1.5	▼-1.3
<b>Net LNG Exports</b>	<b>10.8</b>	<b>10.5</b>	<b>10.8</b>	<b>10.6</b>	<b>9.9</b>	<b>10.9</b>	▲ 0.9	▲ 0.4
<b>Total Mexican Exports</b>	<b>7.1</b>	<b>7.1</b>	<b>7.0</b>	<b>6.9</b>	<b>6.8</b>	<b>6.9</b>	▲ 0.0	▼-0.1
<b>Implied Daily Storage Activity</b>	<b>5.6</b>	<b>4.6</b>	<b>1.7</b>	<b>5.7</b>	<b>4.6</b>	<b>5.0</b>	<b>0.4</b>	
<b>EIA Reported Daily Storage Activity</b>	<b>7.0</b>	<b>5.1</b>	<b>1.9</b>	<b>7.0</b>	<b>6.6</b>			
<b>Daily Model Error</b>	<b>-1.4</b>	<b>-0.5</b>	<b>-0.2</b>	<b>-1.3</b>	<b>-2.0</b>			

## Monthly Balances

	2Yr Ago Aug-18	LY Aug-18	Apr-21	May-21	Jun-21	Jul-21	MTD Aug-21	MoM	vs. LY
<b>Lower 48 Dry Production</b>	<b>85.0</b>	<b>85.0</b>	<b>92.3</b>	<b>92.7</b>	<b>93.0</b>	<b>92.3</b>	<b>92.2</b>	▼-0.1	▲ 7.2
<b>Canadian Imports</b>	<b>5.0</b>	<b>5.0</b>	<b>4.6</b>	<b>4.5</b>	<b>4.8</b>	<b>5.2</b>	<b>5.1</b>	▼-0.1	▲ 0.0
L48 Power	38.1	38.1	24.9	26.6	35.3	39.4	39.7	▲ 0.3	▲ 1.6
L48 Residential & Commercial	7.8	7.8	19.5	13.2	8.8	8.3	7.7	▼-0.6	▼-0.1
L48 Industrial	21.6	21.6	21.2	20.3	20.8	19.9	20.1	▲ 0.1	▼-1.5
L48 Lease and Plant Fuel	4.7	4.7	5.1	5.1	5.1	5.1	5.1	▼ 0.0	▲ 0.4
L48 Pipeline Distribution	2.2	2.2	2.3	2.1	2.2	2.3	2.3	▲ 0.0	▲ 0.1
<b>L48 Regional Gas Consumption</b>	<b>74.4</b>	<b>74.4</b>	<b>73.0</b>	<b>67.2</b>	<b>72.3</b>	<b>75.0</b>	<b>74.9</b>	▼-0.2	▲ 0.5
<b>Net LNG Exports</b>	<b>3.3</b>	<b>3.3</b>	<b>11.5</b>	<b>10.8</b>	<b>10.2</b>	<b>10.8</b>	<b>10.4</b>	▼-0.4	▲ 7.1
<b>Total Mexican Exports</b>	<b>4.9</b>	<b>4.9</b>	<b>6.7</b>	<b>6.8</b>	<b>7.4</b>	<b>7.0</b>	<b>6.9</b>	▼-0.1	▲ 2.0
<b>Implied Daily Storage Activity</b>	<b>7.4</b>	<b>7.4</b>	<b>5.7</b>	<b>12.4</b>	<b>8.0</b>	<b>4.6</b>	<b>5.1</b>		
<b>EIA Reported Daily Storage Activity</b>									
<b>Daily Model Error</b>									

Source: Bloomberg, analytix.ai



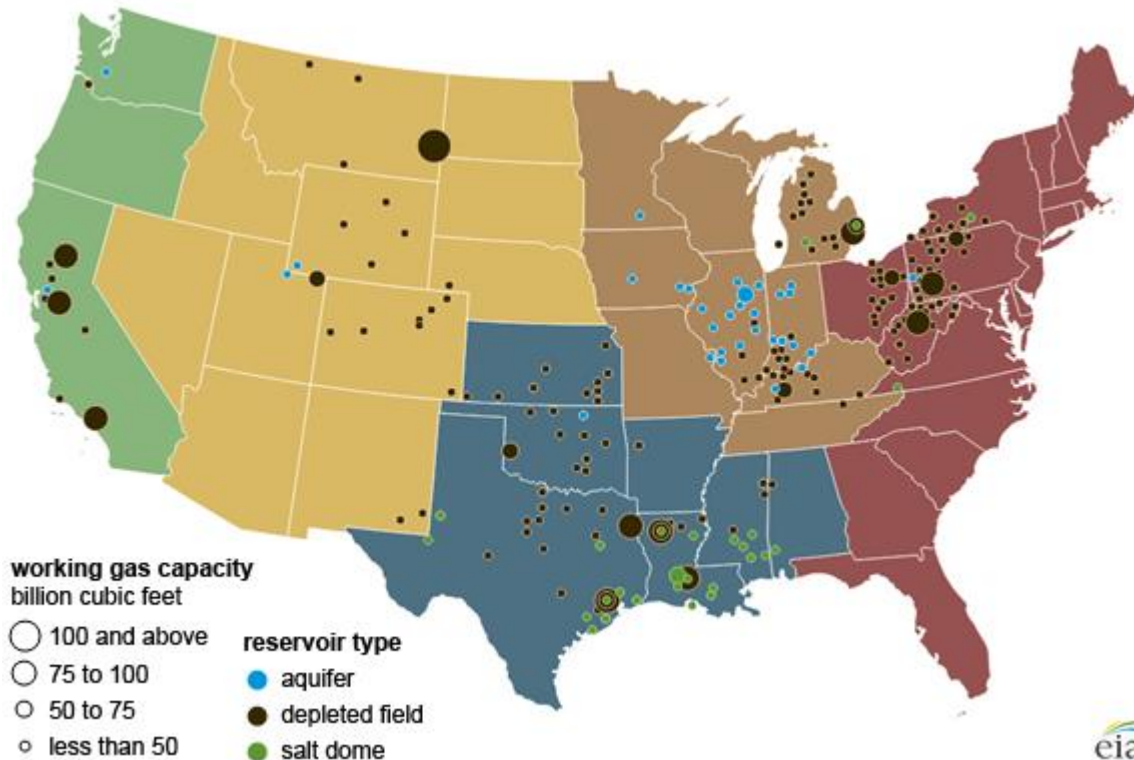
## Regional S/D Models Storage Projection

Week Ending 20-Aug

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	4.6	1.7	6.3	44
East	2.0	1.2	3.1	22
Midwest	3.8	-0.2	3.6	25
Mountain	4.0	-4.0	0.0	0
South Central	-5.4	4.9	-0.5	-4
Pacific	0.4	-0.2	0.2	1

\*Adjustment Factor is calculated based on historical regional deltas

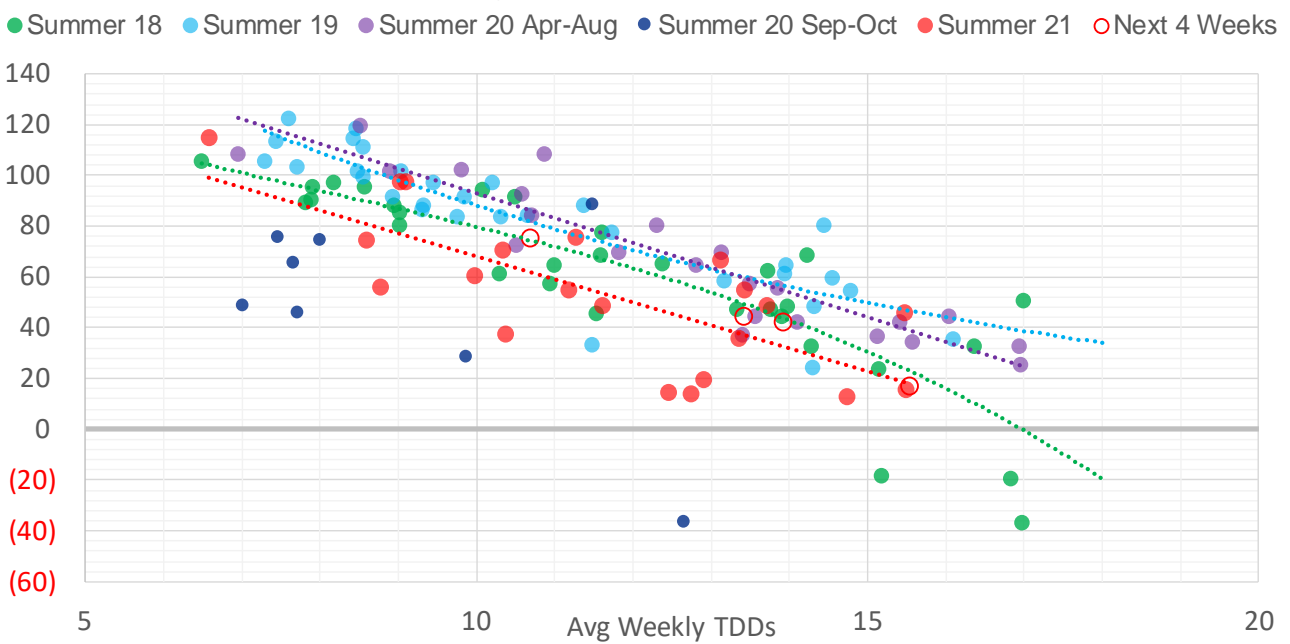
U.S. underground natural gas storage facilities by type (July 2015)



## Weather Model Storage Projection

Next report and beyond		
Week Ending	Temp	Week Storage Projection
27-Aug	15.6	17
03-Sep	13.9	42
10-Sep	10.7	75

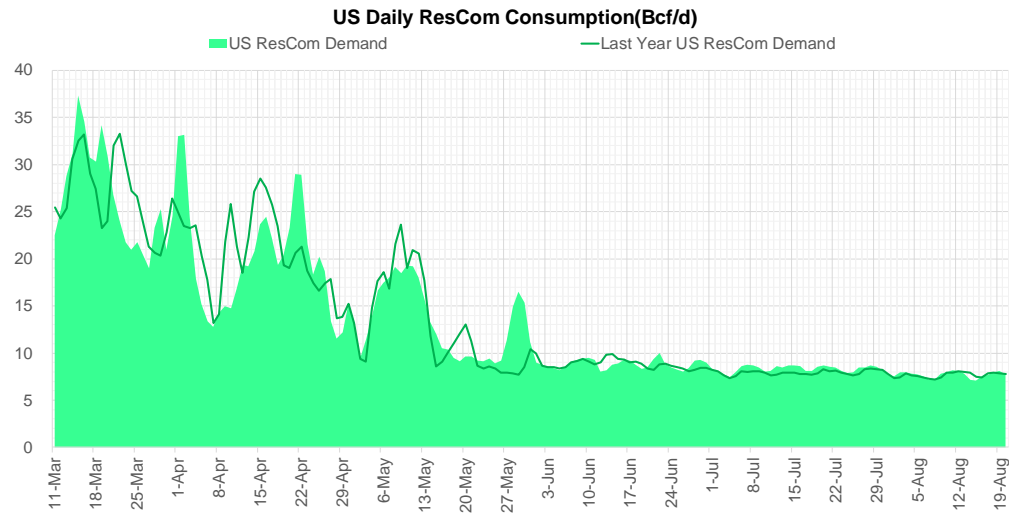
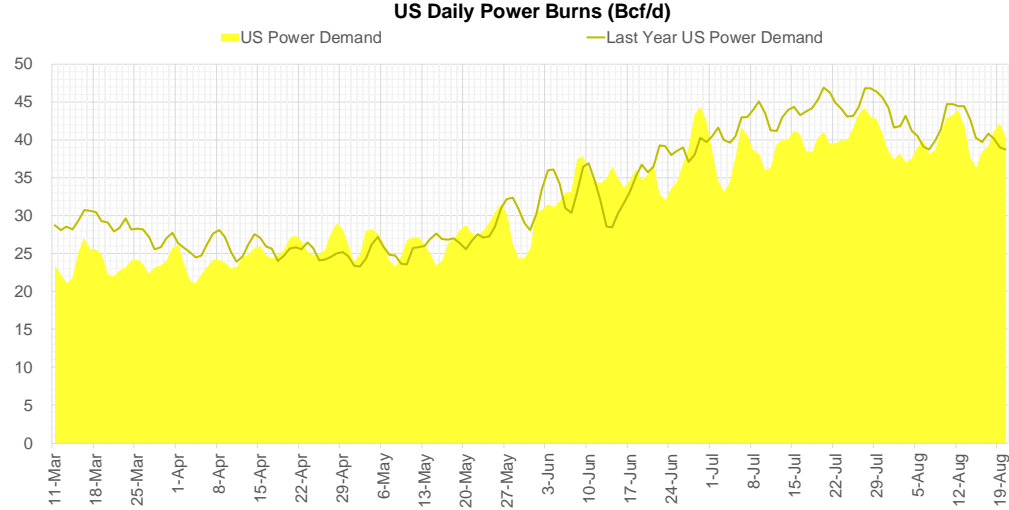
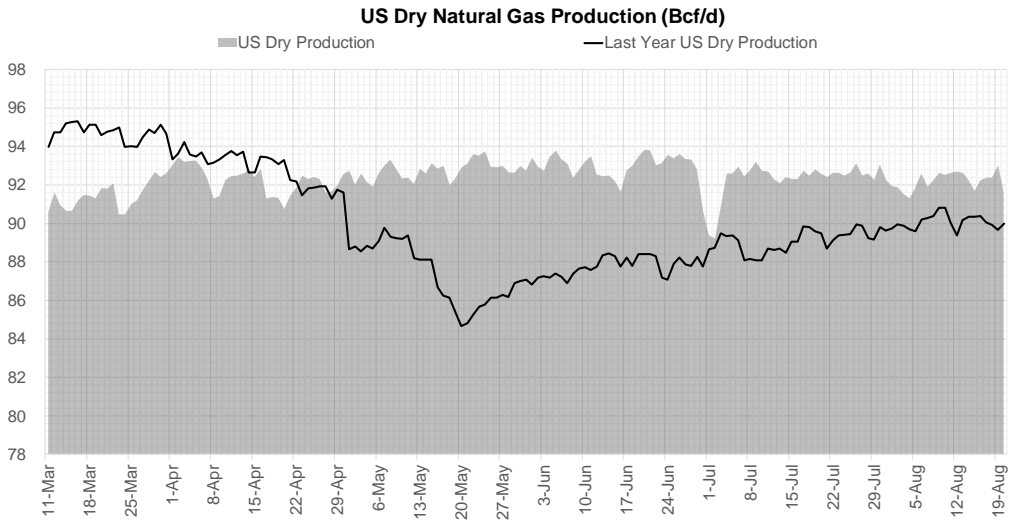
### Weather Storage Model - Next 4 Week Forecast



Note: this is not our official end of season forecast. This chart signifies where storage levels end with 10-year normal weather and current market tightness relative to last year

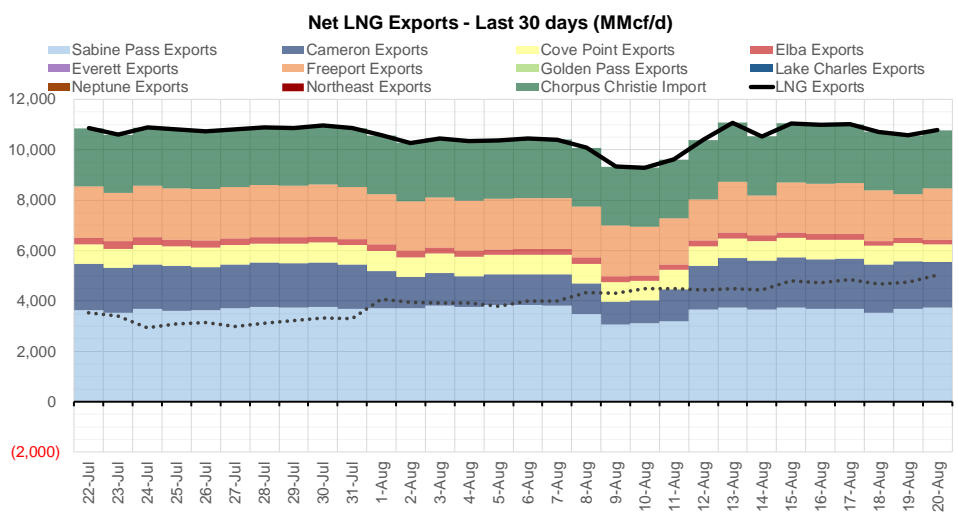
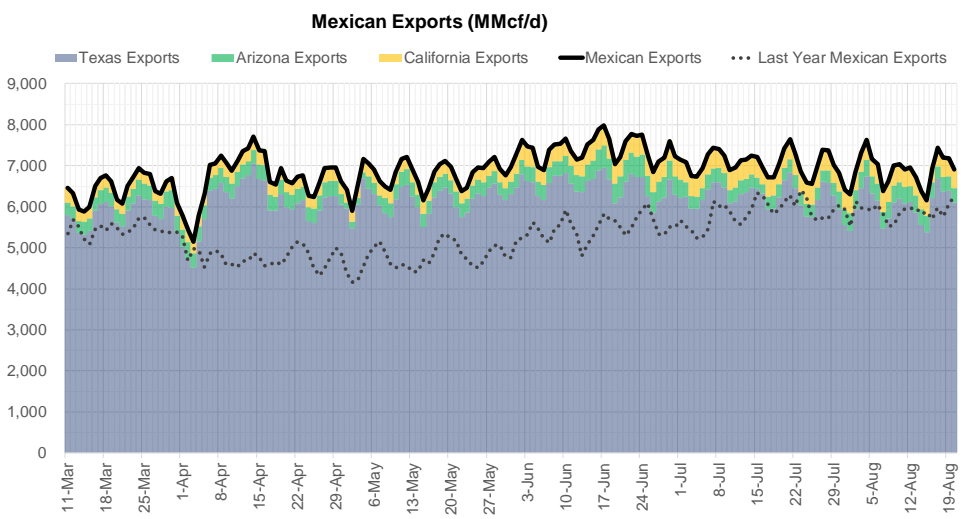
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## Supply – Demand Trends



Source: Bloomberg

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

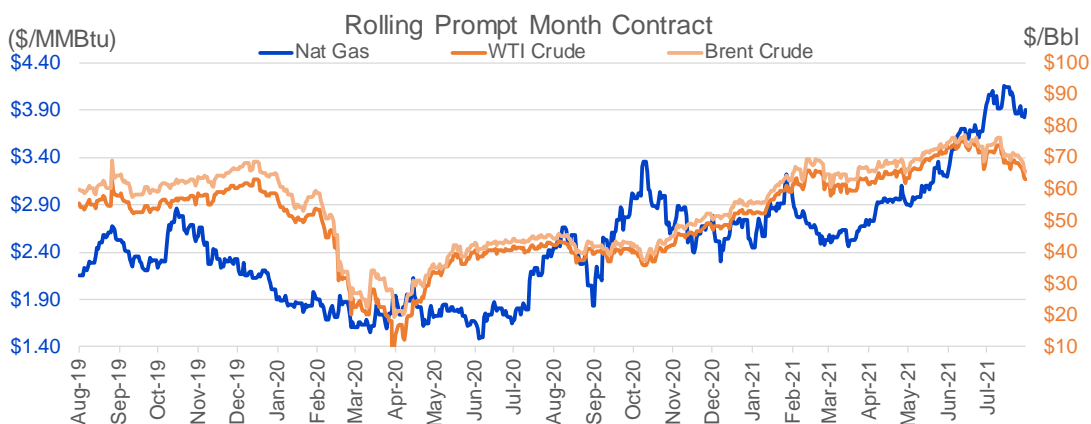
CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
10	2021	C	4.50	16448	10	2021	C	5.00	50656
10	2021	C	5.00	14619	12	2021	P	2.75	41830
9	2021	C	3.90	11622	10	2021	C	4.50	40865
9	2021	C	4.00	10672	10	2021	C	4.00	39712
9	2021	P	3.70	9825	10	2021	P	3.50	38722
10	2021	P	3.50	7602	12	2021	P	2.50	38528
10	2021	C	4.00	7268	10	2021	C	3.50	33004
10	2021	P	3.70	6702	9	2021	C	4.00	31887
9	2021	C	4.20	5038	10	2021	P	3.00	31712
9	2021	P	3.50	4057	10	2021	P	2.50	29844
9	2021	P	3.75	3623	9	2021	C	4.25	29719
9	2021	C	3.80	3254	10	2021	P	2.00	28650
10	2021	C	4.25	3218	10	2021	C	3.25	28195
4	2022	P	3.00	3200	10	2021	P	2.75	27144
9	2021	C	4.15	3115	10	2021	C	4.25	26821
10	2021	P	3.25	3017	9	2021	C	5.00	26586
4	2022	P	2.50	2850	10	2021	C	6.00	25479
9	2021	P	3.60	2742	12	2021	P	3.00	24697
9	2021	P	3.80	2658	9	2021	P	2.50	23385
9	2021	C	4.25	2600	11	2021	P	3.00	23071
11	2021	P	3.50	2358	11	2021	C	4.00	22723
9	2021	P	3.65	2271	9	2021	C	3.50	22611
11	2021	C	4.50	2215	9	2021	P	3.00	22432
9	2021	C	4.10	2155	9	2021	P	3.50	22129
10	2021	C	6.00	2103	12	2021	C	4.00	22092
9	2021	C	3.95	1818	9	2021	P	2.00	20427
11	2021	C	4.00	1772	9	2021	C	4.75	20402
12	2021	P	3.50	1758	9	2021	P	3.25	20089
11	2021	C	5.25	1583	10	2021	P	2.25	19900
9	2021	P	3.40	1530	4	2022	C	3.00	19810
3	2022	P	2.75	1500	9	2021	C	3.25	18994
3	2022	P	3.25	1500	10	2021	C	3.00	18502
2	2022	C	4.50	1469	9	2021	C	4.50	17972
12	2021	P	4.00	1360	11	2021	C	5.00	17831
10	2021	C	5.25	1335	10	2021	P	3.25	16846
11	2021	C	6.00	1334	10	2021	C	3.75	16812
9	2021	C	4.30	1331	1	2022	C	5.00	16285
2	2022	P	3.25	1300	9	2021	P	4.00	16268
3	2022	C	4.00	1245	9	2021	P	2.75	15816
1	2022	C	3.50	1225	3	2022	C	5.00	15473
1	2022	C	4.00	1225	2	2022	C	5.00	15419
3	2022	C	3.50	1225	3	2022	P	2.50	15394
12	2021	C	7.00	1224	11	2021	P	3.50	15098
2	2022	C	4.00	1169	9	2021	P	3.75	14835
2	2022	P	4.00	1166	11	2021	C	3.75	14577
1	2023	C	3.50	1150	3	2022	C	3.00	14448
2	2023	C	3.50	1150	11	2021	P	2.50	14399
3	2023	C	3.50	1150	3	2022	C	4.00	14313
9	2021	C	4.05	1147	3	2022	C	8.00	14178
					1	2022	C	4	14107

Source: CME, Nasdaq, ICE

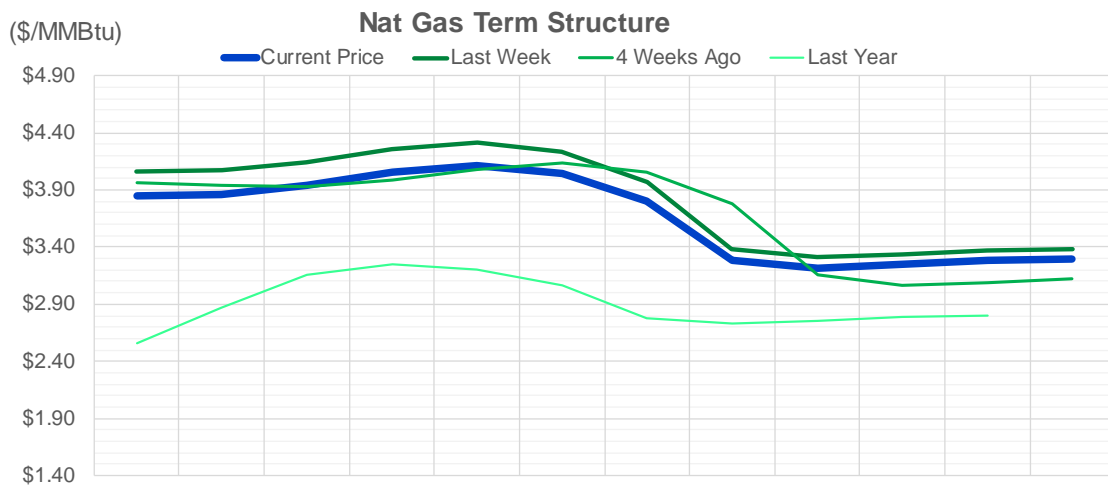
## Nat Gas Futures Open Interest CME, ICE and Nasdaq Combined

CME Henry Hub Futures (10,000 MMBtu)				ICE Henry Hub Futures Contract Equivalent (10,000 MM			
	Current	Prior	Daily Change		Current	Prior	Daily Change
SEP 21	70913	83921	-13008	SEP 21	84957	81887	3070
OCT 21	228219	223441	4778	OCT 21	107367	107602	-235
NOV 21	194629	194059	570	NOV 21	70040	69167	872
DEC 21	84433	84447	-14	DEC 21	75711	75658	53
JAN 22	140182	137876	2306	JAN 22	79210	78899	310
FEB 22	55204	55220	-16	FEB 22	68410	69347	-937
MAR 22	104066	104606	-540	MAR 22	73015	73887	-872
APR 22	111455	111533	-78	APR 22	68363	69873	-1511
MAY 22	100925	100453	472	MAY 22	66978	68284	-1306
JUN 22	31464	31226	238	JUN 22	52004	53158	-1154
JUL 22	26885	26695	190	JUL 22	53457	54179	-722
AUG 22	25242	25457	-215	AUG 22	53197	54407	-1210
SEP 22	26851	26754	97	SEP 22	53164	54114	-950
OCT 22	68885	67073	1812	OCT 22	60688	61703	-1016
NOV 22	28022	27853	169	NOV 22	46898	48058	-1160
DEC 22	24935	24618	317	DEC 22	50344	51511	-1168
JAN 23	18398	18436	-38	JAN 23	33430	33329	102
FEB 23	6436	6496	-60	FEB 23	28196	28099	97
MAR 23	9027	9011	16	MAR 23	30016	29924	92
APR 23	11015	10785	230	APR 23	24921	24722	198
MAY 23	6366	6459	-93	MAY 23	25962	25760	203
JUN 23	5128	5101	27	JUN 23	24171	23975	196
JUL 23	3904	3904	0	JUL 23	24189	23991	198
AUG 23	3162	3157	5	AUG 23	24061	23863	198
SEP 23	4096	3887	209	SEP 23	23505	23309	196
OCT 23	4710	4913	-203	OCT 23	25286	25084	202
NOV 23	1722	1722	0	NOV 23	25564	25382	182
DEC 23	1766	1741	25	DEC 23	23874	23694	180
JAN 24	989	985	4	JAN 24	13239	13236	4
FEB 24	879	872	7	FEB 24	11242	11322	-80

Source: CME, ICE








	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
<b>Current Price</b>	<b>\$3.852</b>	<b>\$3.866</b>	<b>\$3.939</b>	<b>\$4.057</b>	<b>\$4.120</b>	<b>\$4.045</b>	<b>\$3.800</b>	<b>\$3.287</b>	<b>\$3.220</b>	<b>\$3.250</b>	<b>\$3.284</b>	<b>\$3.292</b>
Last Week	\$4.059	\$4.071	\$4.143	\$4.256	\$4.319	\$4.237	\$3.967	\$3.385	\$3.309	\$3.338	\$3.371	\$3.378
vs. Last Week	-\$0.207	-\$0.205	-\$0.204	-\$0.199	-\$0.199	-\$0.192	-\$0.167	-\$0.098	-\$0.089	-\$0.088	-\$0.087	-\$0.086
4 Weeks Ago	\$3.959	\$3.938	\$3.935	\$3.990	\$4.084	\$4.141	\$4.053	\$3.781	\$3.157	\$3.064	\$3.092	\$3.126
vs. 4 Weeks Ago	-\$0.107	-\$0.072	\$0.004	\$0.067	\$0.036	-\$0.096	-\$0.253	-\$0.494	\$0.063	\$0.186	\$0.192	\$0.166
Last Year	\$2.426	\$2.563	\$2.868	\$3.152	\$3.255	\$3.203	\$3.065	\$2.777	\$2.733	\$2.759	\$2.791	\$2.799
vs. Last Year	\$1.426	\$1.303	\$1.071	\$0.905	\$0.865	\$0.842	\$0.735	\$0.510	\$0.487	\$0.491	\$0.493	\$0.493

	Units	Current Price	vs. Last Week	vs. 4 Weeks Ago	vs. Last Year
NatGas Jul21/Oct21	\$/MMBtu	0.227	▼ -0.104	▼ -0.132	▲ 0.207
NatGas Oct21/Nov21	\$/MMBtu	0.065	▼ -0.008	▲ 0.008	▲ 0.015
NatGas Oct21/Jan22	\$/MMBtu	0.237	▼ -0.023	▲ 0.032	▼ -0.037
NatGas Apr22/Oct22	\$/MMBtu	0.017	▲ 0.010	▲ 0.036	▼ -0.022
WTI Crude	\$/Bbl	63.69	▼ -5.400	▼ -8.220	▲ 21.110
Brent Crude	\$/Bbl	66.45	▼ -4.860	▼ -7.340	▲ 21.550
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18	▲ 0.000	▲ 0.000	▲ 0.000
Heating Oil	cents/Gallon	196.90	▼ -13.490	▼ -16.360	▲ 72.230
Propane, Mt. Bel	cents/Gallon	1.11	▼ -0.010	▲ 0.021	▲ 0.607
Ethane, Mt. Bel	cents/Gallon	0.34	▼ -0.002	▲ 0.023	▲ 0.092
Coal, PRB	\$/MTon	12.30	▲ 0.000	▲ 0.000	▲ 0.000
Coal, PRB	\$/MMBtu	0.70			

Source: CME, Bloomberg

## Baker Hughes Rig Counts

Rotary Rig Count					
8/20/2021					
Baker Hughes 					
U.S. Breakout Information	This Week	+/-	Last Week	+/-	Year Ago
Oil	405	8	397	222	183
Gas	97	-5	102	28	69
Miscellaneous	1	0	1	-1	2
Directional	30	3	27	10	20
Horizontal	454	-2	456	233	221
Vertical	19	2	17	6	13
Canada Breakout	This Week	+/-	Last Week	+/-	Year Ago
Oil	95	-5	100	75	20
Gas	60	-3	63	24	36
Miscellaneous	1	0	1	1	0
Major Basin Variances	This Week	+/-	Last Week	+/-	Year Ago
Ardmore Woodford	3	0	3	3	0
Arkoma Woodford	1	0	1	0	1
Cana Woodford	17	-1	18	11	6
DJ-Niobrara	12	0	12	8	4
Eagle Ford	35	-1	36	26	9
Granite Wash	4	0	4	3	1
Haynesville	45	-1	46	13	32
Marcellus	28	-1	29	2	26
Permian	247	2	245	120	127
Utica	12	1	11	7	5
Williston	23	0	23	13	10