

## **Market Report**

## 14 August 2020

	Cı	ırrent	Δf	rom `	YD		om 7D Avg
Nat Gas Prompt	\$	2.20	_	\$ 0.	02	<u> </u>	0.01

	С	urrent	Δf	froi	m YD	Δf	rom Avg	
WTI Prompt	\$	42.27	_	\$	0.03	_	\$	0.5

	С	urrent	Δf	ron	n YD	Δ fror Αν	
Brent Prompt	\$	44.96	_	\$	-	<b>\$</b>	5

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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	2.8	5.2	7.6
24 Hr Chg	-2.4	1.9	1.7	1.3
GFS Ensemble 00z	1-5 Day	6-10 Day	11-15 Day	Total
GFS Ensemble 00z 12 Hr Chg	1-5 Day 1.0	6-10 Day 5.0	11-15 Day 8.6	Total 14.6

	Current	Δ from YD	Δ from 7D Avg
US Dry Production	85.6	▼ -0.63	▼ -0.81

	Current	Δ from YD	Δ from 7D Avg
US ResComm	8.0	▼ -0.13	<b>a</b> 0.22

	Current	Δ from YD	Δ from 7D Avg
Net LNG Exports	4.4	▼ -0.12	▼ 0.00

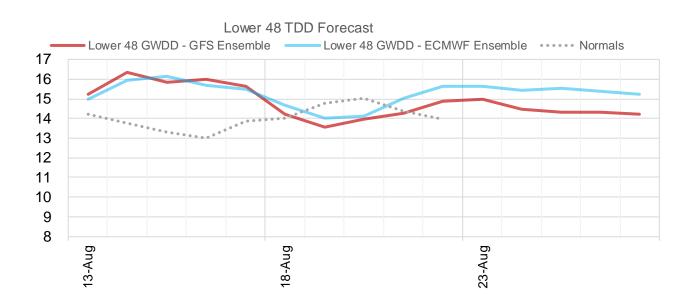
	Current	Δ from YD	Δ from 7D Avg
US Power Burns	43.3	<b>▼</b> -1.16	<b>0.47</b>

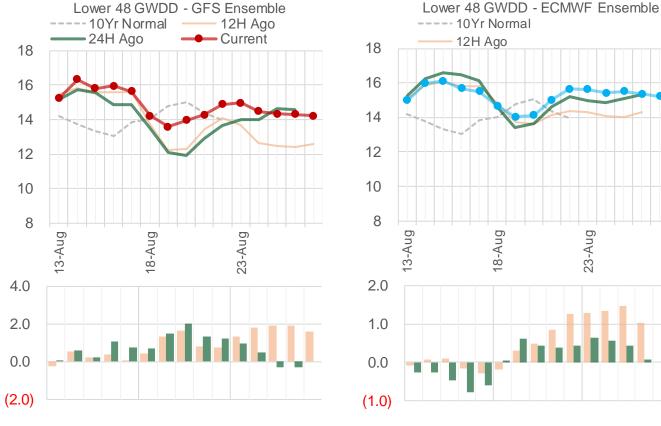
	Current	Δ from YD	Δ from 7D Avg
Canadian Imports	4.7	<b>▼</b> -0.43	▼ -0.30

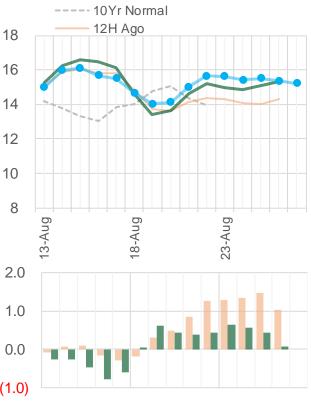
	Current	Δf	rom YD	Δf	rom 7D Avg
Mexican Exports	6.4		0.01	_	0.32



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







Source: WSI, Bloomberg



## **Market Report**

## Lower 48 Component Models

#### **Daily Balances**

	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	DoD	vs. 7D
Lower 48 Dry Production	86.6	87.1	86.9	86.0	85.4	86.2	85.6	<b>▽ -0.6</b>	<b>▽ -0.8</b>
Canadian Imports	4.7	4.7	5.2	5.8	5.5	5.2	4.7	<b>▽ -0.4</b>	<b>▽ -0.4</b>
L48 Power	38.6	40.6	46.3	46.0	45.9	44.4	43.3	▼ -1.2	▼ -0.4
L48 Residential & Commercial	7.2	7.5	8.0	7.9	8.1	8.1	8.0	▼ -0.1	<b>a</b> 0.2
L48 Industrial	18.7	18.9	19.0	19.0	19.1	19.3	19.1	▼ -0.1	<b>a</b> 0.2
L48 Lease and Plant Fuel	4.8	4.8	4.8	4.8	4.7	4.8	4.8	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.1	2.2	2.5	2.5	2.5	2.4	2.4	▼ -0.1	▼ 0.0
L48 Regional Gas Consumption	71.5	74.0	80.5	80.2	80.4	79.0	77.5	▼ -1.5	▼ -0.1
Net LNG Exports	4.3	4.3	4.5	4.5	4.4	4.5	4.4	<b>▽ -0.1</b>	▼ -0.1
Total Mexican Exports	5.8	5.7	5.9	6.2	6.2	6.3	6.4	<b>0.0</b>	<b>△</b> 0.4
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	9.8	7.8	1.2	0.9	-0.1	1.5	2.1		

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

	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	WoW	vs. 4W
Lower 48 Dry Production	85.7	85.6	86.3	86.3	86.3	86.4	<u> </u>	<b>△</b> 0.3
Canadian Imports	4.3	4.5	4.4	4.5	4.6	5.0	<b>△</b> 0.4	<b>△</b> 0.5
L48 Power	41.8	42.9	45.5	45.5	40.8	42.8	<b>2.0</b>	▼ -0.9
L48 Residential & Commercial	7.9	7.9	8.1	8.1	7.7	7.7	<b>△</b> 0.1	▼ -0.2
L48 Industrial	18.2	17.9	17.2	17.0	18.2	18.9	<b>a</b> 0.8	<b>1.4</b>
L48 Lease and Plant Fuel	4.8	4.8	4.8	4.8	4.8	4.8	<b>0.0</b>	▼ 0.0
L48 Pipeline Distribution	2.3	2.3	2.4	2.4	2.2	2.3	<b>0.1</b>	▼ 0.0
L48 Regional Gas Consumption	75.0	75.8	78.0	77.9	73.6	76.6	<b>2.9</b>	<b>0.2</b>
Net LNG Exports	3.0	3.3	3.6	3.1	3.9	4.4	<b>0.5</b>	<b>△</b> 0.9
Total Mexican Exports	5.9	6.2	6.4	6.2	6.1	6.0	<b>▽ -0.1</b>	▽ -0.2
Implied Daily Storage Activity	6.0	4.8	2.7	3.5	7.3	4.4	-2.9	
EIA Reported Daily Storage Activity	6.4	5.3	3.7	4.7	8.3			
Daily Model Error	-0.4	-0.5	-1.0	-1.2	-1.0			

### **Monthly Balances**

, , , , , , , , , , , , , , , , , , , ,	2Yr Ago	LY					MTD		
	Aug-18	Aug-19	Apr-20	May-20	Jun-20	Jul-20	Aug-20	MoM	vs. LY
Lower 48 Dry Production	83.3	92.4	91.7	86.0	84.9	85.9	86.3	<b>△</b> 0.3	▼ -6.2
Canadian Imports	5.0	4.4	3.9	3.9	4.0	4.4	4.8	<u> </u>	<b>0.5</b>
L48 Power	38.2	41.0	25.5	26.9	34.4	43.7	41.7	▼ -2.0	<b>0.7</b>
L48 Residential & Commercial	7.8	7.8	20.4	13.0	8.6	8.0	7.7	▼ -0.3	▼ -0.1
L48 Industrial	20.2	21.9	20.7	18.8	18.4	17.7	18.6	<b>1.0</b>	▼ -3.3
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	2.3	2.3	▼ -0.1	<b>△</b> 0.0
L48 Regional Gas Consumption	73.0	78.1	73.8	65.4	68.4	76.5	75.1	▼ -1.4	▼ -3.0
Net LNG Exports	3.3	5.2	8.2	6.7	4.0	3.3	4.2	<b>0.9</b>	▼ -1.0
Total Mexican Exports	5.0	5.4	4.9	4.9	5.7	6.1	6.1	▽ 0.0	<b>a</b> 0.7
Implied Daily Storage Activity EIA Reported Daily Storage Activity	7.0	8.1	8.7	12.9	10.8	4.4	5.7		
Daily Model Error								Di	

Source: Bloomberg, analytix.ai



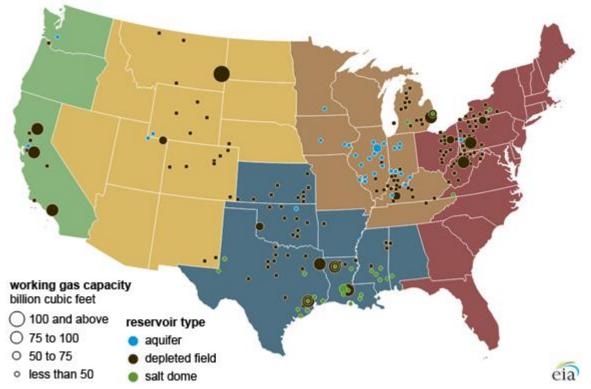
## Regional S/D Models Storage Projection

Week Ending 14-Aug

	Daily Raw Storage	Daily Adjustment Factor	Daily Average Storage Activity (Adjusted) *	Weekly Adjusted Storage Activity
L48	4.2	1.3	5.5	38
East	0.0	2.4	2.4	17
Midwest	2.4	0.0	2.4	17
Mountain	3.1	-2.4	8.0	5
South Central	-2.0	1.8	-0.2	-1
Pacific	0.7	-0.6	0.1	1

<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 report and beyond							
	Week Storage						
Week Ending	Projection						
21-Aug	42						
28-Aug	57						
4-Sep	65						

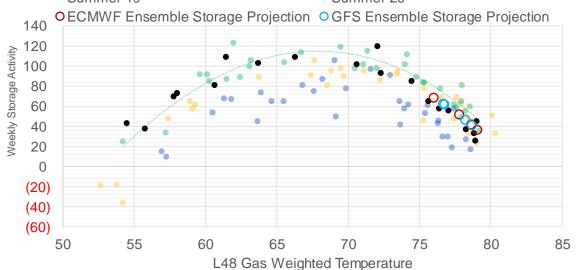
### Weather Storage Model - Next 4 Week Forecast

Summer 17

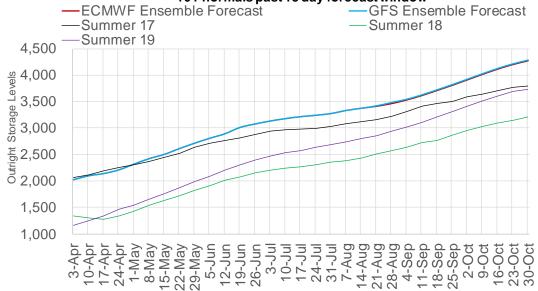
Summer 18

Summer 19

• Summer 20



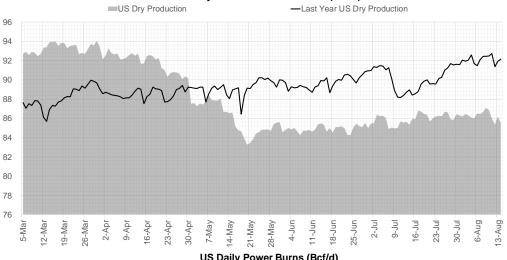
### Weather Based End of Winter Projection (Bcf) 10Y normals past 15 day forecast window



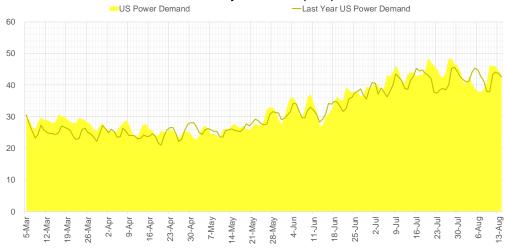


## Supply - Demand Trends

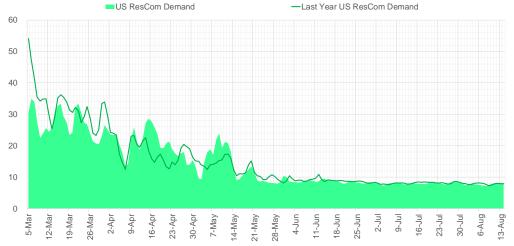
#### US Dry Natural Gas Production (Bcf/d)



#### US Daily Power Burns (Bcf/d)



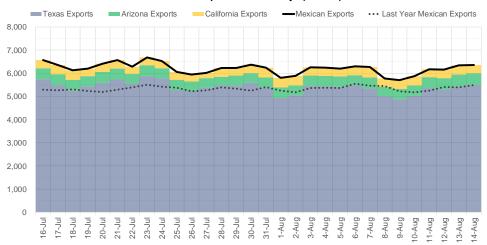
#### US Daily ResCom Consumption(Bcf/d)



Source: Bloomberg



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



#### Net LNG Exports - Last 30 days (MMcf/d) Sabine Pass Exports Cameron Exports Cove Point Exports Elba Exports Everett Exports Freeport Exports Golden Pass Exports Lake Charles Exports Neptune Exports Northeast Exports Chorpus Christie Import LNG Exports 7,000 6,000 5,000 4,000 3,000 2,000 1,000 (1,000)25-Jul 26-Jul 27-Jul 28-Jul 29-Jul 31-Jul

Source: Bloomberg



## **Market Report**

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

9 2020 P 1.50 8885 9 2020 P 1.50 9 1.50 9 2020 P 1.50 9 2020 P 1.50 10 2020 P 1.50 10 2020 P 1.50 10 2020 P 1.50 150 10 2020 P 1.50 9 2020 P 1.50 10 2020 P 1.50 150 10 2020 P 1.50 150 10 2020 P 1.50 150 10 2020 P 1.50 10 2020 P 1.55 11 2020 P 1.5				- ,						
10			PUT/CALL	STRIKE				PUT/CALL	STRIKE	CUMULATIVE
9 2020 C 2.35 3825 10 2020 C 2.75 9 2020 P 1.90 3707 10 2020 C 2.50 9 2020 P 2.50 3610 10 2020 P 2.00 9 2020 P 2.10 3280 31 2021 P 2.00 10 2020 C 2.40 2662 10 2020 P 1.60 110 2020 C 2.40 2403 10 2020 P 1.80 110 2020 P 1.75 2003 10 2020 P 1.25 111 2020 C 3.50 2001 9 2020 P 1.75 112 2020 P 1.85 1745 10 2020 P 1.75 113 2020 P 1.85 1745 10 2020 P 1.00 10 2020 P 1.85 1745 10 2020 P 1.00 10 2020 C 2.15 15566 9 2020 P 1.76 10 2020 C 2.15 15566 9 2020 P 1.76 10 2020 C 2.15 15566 9 2020 P 1.75 10 2020 C 2.15 15566 9 2020 P 1.75 10 2020 C 2.15 1339 9 9 2020 C 3.00 10 2020 C 2.25 1375 9 2020 C 3.00 10 2020 C 2.15 1327 10 2020 C 2.00 9 2020 P 1.80 1399 9 2020 C 2.00 9 2020 P 1.80 1399 9 2020 C 2.00 9 2020 C 2.25 1375 9 2020 C 2.00 9 2020 C 2.25 1375 9 2020 C 2.00 9 2020 C 2.25 1375 9 2020 C 2.00 10 2020 C 2.25 1375 9 2020 C 2.00 110 2020 C 2.25 1375 9 2020 C 2.00 10 2020 C 2.25 1375 9 2020 P 1.20 110 2020 C 2.25 1375 9 2020 P 1.20 110 2020 C 2.25 1375 9 2020 C 2.00 10 2020 C 2.25 1375 9 2020 P 1.20 110 2020 C 2.25 1375 9 2020 P 1.20 110 2020 C 2.25 1375 9 2020 P 1.20 110 2020 P 1.70 1340 3 2021 C 3.00 10 2020 P 2.25 1327 10 2020 C 2.10 10 2020 P 2.25 1326 1327 10 2020 C 2.10 10 2020 P 2.25 1326 1327 10 2020 C 2.10 11 2020 P 2.25 1326 1327 10 2020 C 2.10 11 2020 P 2.25 1326 1327 10 2020 C 2.10 11 2020 P 2.25 1326 1327 10 2020 C 2.10 11 2020 P 2.25 1326 1327 10 2020 C 2.25 11 2021 C 3.25 1100 9 2020 P 1.35 11 2021 C 3.25 1100 9 2020 P 1.35 11 2021 C 3.25 1100 9 2020 P 1.25 11 2021 C 3.25 1100 9 2020 P 1.25 11 2021 C 3.25 1100 9 2020 C 2.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 P 1.25 11 2021 C 3.25 1000 9 2020 C 2.25 11 2021 C 3.00 P 2.25 75 10 2020 C 2.35 554 4 4 2021 C 3.50 11 2020 C 3.50 688 11 2020 C 2.25 11 2021 C 3.50 688 11 2020 C 2.25 11 2020 C 2.35 554 4 4 202	9	2020	Р	2.00	8865	9	2020	С	2.50	46660
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9 2020 P 1.90 3707 10 2020 C 2.50 9 2020 P 2.10 3280 3 2021 P 2.00 9 2020 P 2.10 3280 3 2021 P 2.00 9 2020 C 2.40 2662 10 2020 P 1.60 10 2020 P 2.00 2403 10 2020 P 1.50 10 2020 P 2.00 2083 10 2020 P 1.25 11 2020 C 3.50 2001 9 2020 P 1.75 11 2020 C 3.50 2001 9 2020 P 2.00 11 2020 P 1.75 11 2020 C 3.50 2001 9 2020 P 1.75 11 2020 C 3.50 2001 9 2020 P 1.00 10 2020 P 1.85 1745 10 2020 P 1.00 110 2020 C 3.25 1622 9 2020 P 1.00 110 2020 C 2.15 1556 9 2020 P 1.75 110 2020 C 2.65 1495 9 2020 P 1.75 110 2020 C 2.65 1495 9 2020 P 1.50 9 2020 P 1.80 1399 9 2020 P 1.50 9 2020 P 1.80 1399 9 2020 C 2.00 9 2020 P 1.80 1399 9 2020 C 2.00 9 2020 P 1.77 1340 3 2021 C 3.00 10 2020 P 2.70 1344 3 2021 C 3.25 11 2020 P 2.25 1327 10 2020 P 2.20 11 2020 P 2.25 1322 10 2020 P 2.20 11 2020 P 2.25 1208 10 2020 P 2.25 11 2020 C 2.66 1144 9 2020 C 2.25 11 2020 P 2.25 1208 10 2020 P 2.00 11 2020 P 2.25 1208 10 2020 P 2.00 11 2020 P 2.25 1208 10 2020 P 2.00 11 2020 P 2.25 1208 10 2020 P 2.00 11 2020 P 2.25 1208 10 2020 P 2.00 11 2020 P 2.25 1208 10 2020 C 2.25 11 2021 C 3.25 1100 9 2020 P 2.00 11 2020 P 2.25 1208 10 2020 P 2.00 12 2020 P 2.25 1208 10 2020 P 2.00 13 2021 C 3.25 1100 9 2020 P 2.00 14 2020 P 2.25 1208 10 2020 P 2.00 15 2020 P 2.30 1163 9 2020 P 2.00 16 2020 P 2.25 1208 10 2020 P 2.00 17 2020 P 2.25 1208 10 2020 P 2.00 18 2020 P 2.25 1208 10 2020 P 2.00 19 2020 C 2.66 1100 9 2020 P 2.00 10 2020 P 2.50 901 10 2020 P 2.00 11 2021 C 3.25 1100 9 2020 P 2.00 11 2021 C 3.25 1100 9 2020 P 2.00 11 2021 C 3.25 100 10 2020 P 2.25 11 2021 C 3.25 750 10 2020 P 2.25 11 2021 C 3.25 750 10 2020 P 2.25 11 2021 C 3.25 750 10 2020 P 2.25 11 2021 C 3.25 750 10 2020 P 2.25 11 2021 C 3.00 854 11 2020 C 2.25 11 2020 P 2.50 688 11 2020 P 2.50 11 2020 P 2.50 688 11 2020 P 2.50 11 2020 P 2.50 688 11 2020 P 2.50 11 2020 P 2.50 688 11 2020 P 2.50 11 2020 P 2.50 688 11 2020 C 2.25 11 2020 P 2.50 688 11 2020 C 2.25 11 2020 P 2.50 688 11 2020 C 2.25 11 2020 P 2.50 688 11 2020 C 2.25 11 2020 C 2.35 550 10 2020 C 2.25 11 2020 C 2.35 550 2 2021 C 2.35 11 2021 C	9	2020	С	2.35	3825	10	2020	С	2.75	42568
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10			C			10	2020	Р	1.60	34391
100						10	2020	С	3.00	33868
9         2020         P         1.75         2003         10         2020         P         1.75           11         2020         C         3.50         2001         9         2020         P         2.00           9         2020         P         1.85         1745         9         2020         P         1.00           10         2020         C         3.25         1622         9         2020         P         1.00           10         2020         C         2.65         1485         9         2020         P         1.75           10         2020         C         2.65         1485         9         2020         P         1.50           9         2020         P         1.80         1399         9         2020         P         1.50           9         2020         P         1.70         1340         9         2020         P         1.20           10         2020         P         2.05         1322         10         2020         C         2.10           9         2020         P         2.05         1322         10         2020         C         2.25 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td>2020</td> <td>Р</td> <td>1.25</td> <td>28908</td>						10	2020	Р	1.25	28908
111         2020         C         3.50         2001         9         2020         P         2.00           19         2020         P         1.85         1745         10         2020         P         1.00           10         2020         C         3.25         1622         9         2020         P         1.00           10         2020         C         2.15         1556         9         2020         C         3.00           10         2020         C         2.65         1495         9         2020         C         3.00           9         2020         C         2.25         1375         9         2020         C         2.00           9         2020         C         2.25         1375         9         2020         C         2.00           9         2020         C         2.15         1327         3         2021         C         3.00           9         2020         C         2.15         1327         3         2021         C         3.00           9         2020         C         2.25         1208         10         2020         C         2.10 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td>2020</td> <td>Р</td> <td>1.75</td> <td>27694</td>						10	2020	Р	1.75	27694
9						9	2020	Р	2.00	26002
10						10	2020	Р	1.00	24723
10						9	2020	Р	1.00	24289
10						9	2020	Р	1.75	23752
9 2020 P 1.80 1399 9 2020 P 1.50 9 2020 P 1.50 9 2020 P 1.20 10 2020 P 1.70 1340 9 2020 P 1.20 10 2020 C 2.15 1327 3 2021 C 3.00 19 2020 P 2.25 1208 3 2021 C 3.25 11 2020 C 2.30 1163 9 2020 C 2.25 100 2020 C 2.25 100 2020 C 2.25 11 208 20 20 C 2.30 1163 10 2020 P 2.00 1144 10 12 2020 P 2.00 1144 10 2020 P 2.00 1144 10 2020 P 1.30 114 10 2020 P 1.30 114 10 2020 P 1.30 114 2021 C 1.30 114 10 2020 P 1.30 114 2021 C 1.30 114 2020 P 2.15 879 9 2020 C 2.75 114 2020 C 3.50						9		С	3.00	23707
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1       2021       C       3.25       1000       10       2020       P       1.30         1       2021       C       4.00       1000       1       2021       C       4.50         9       2020       P       1.95       951       10       2020       P       2.10         10       2020       P       2.30       910       3       2021       C       3.50         11       2020       P       2.50       901       10       2020       C       2.00         10       2020       P       2.15       879       9       2020       C       2.75         10       2020       C       2.30       857       1       2021       C       3.50         11       2020       P       2.00       854       11       2020       C       3.50         12       2020       C       3.50       767       11       2020       C       3.50         11       2020       C       3.50       767       11       2020       C       3.50         12       2020       C       3.50       752       10       2020       C										19214
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10         2020         C         2.30         857         1         2021         C         3.50           11         2020         P         2.00         854         11         2020         C         3.50           12         2020         C         3.50         767         11         2020         C         3.00           11         2020         C         3.00         752         10         2020         C         2.25           1         2021         P         2.25         750         10         2020         C         2.40           2         2021         C         4.50         750         10         2020         P         1.80           10         2020         C         2.75         742         1         2021         C         3.00           9         2020         P         2.15         693         12         2020         P         1.50           10         2020         C         2.50         688         11         2020         C         2.75           10         2020         C         2.35         554         4         2021         C         3.00	10	2020	Р	2.15	879					18641
111       2020       P       2.00       854       11       2020       C       3.50         12       2020       C       3.50       767       11       2020       C       3.00         11       2020       C       3.50       752       10       2020       C       2.25         1       2021       P       2.25       750       10       2020       C       2.40         2       2021       C       4.50       750       10       2020       P       1.80         10       2020       C       2.75       742       1       2021       C       3.00         9       2020       P       2.15       693       12       2020       P       1.50         10       2020       C       2.50       688       11       2020       C       2.75         10       2020       C       2.35       554       4       2021       C       3.00         3       2021       C       2.75       550       1       2021       P       2.25         3       2021       C       3.75       550       10       2020       C	10	2020	С	2.30	857					18206
12       2020       C       3.50       767       11       2020       C       3.00         11       2020       C       3.50       752       10       2020       C       2.25         1       2021       P       2.25       750       10       2020       C       2.40         2       2021       C       4.50       750       10       2020       P       1.80         10       2020       C       2.75       742       1       2021       C       3.00         9       2020       P       2.15       693       12       2020       P       1.50         10       2020       C       2.50       688       11       2020       C       2.75         10       2020       C       2.35       554       4       2021       C       3.00         3       2021       C       2.75       550       1       2021       C       3.50         10       2020       P       1.00       549       9       2020       C       2.40         11       2020       C       2.80       533       1       2021       C	11	2020	Р	2.00	854					18046
111       2020       C       3.00       752       10       2020       C       2.25         1       2021       P       2.25       750       10       2020       C       2.40         2       2021       C       4.50       750       10       2020       P       1.80         10       2020       C       2.75       742       1       2021       C       3.00         9       2020       P       2.15       693       12       2020       P       1.50         10       2020       C       2.50       688       11       2020       C       2.75         10       2020       C       2.35       554       4       2021       C       3.00         3       2021       C       2.75       550       1       2021       P       2.25         3       2021       C       3.75       550       10       2020       C       3.50         10       2020       P       1.00       549       9       2020       C       2.40         11       2020       C       2.80       533       1       2021       C	12	2020	С	3.50	767					17372
1       2021       P       2.25       750       10       2020       C       2.40         2       2021       C       4.50       750       10       2020       P       1.80         10       2020       C       2.75       742       1       2021       C       3.00         9       2020       P       2.15       693       12       2020       P       1.50         10       2020       C       2.50       688       11       2020       C       2.75         10       2020       C       2.35       554       4       2021       C       3.00         3       2021       C       2.75       550       1       2021       P       2.25         3       2021       C       3.75       550       10       2020       C       3.50         10       2020       P       1.00       549       9       2020       C       2.40         11       2020       C       2.80       533       1       2021       C       3.75         4       2021       C       3.25       530       2       2021       C <t< td=""><td>11</td><td>2020</td><td>С</td><td>3.00</td><td>752</td><td></td><td></td><td></td><td></td><td>17163</td></t<>	11	2020	С	3.00	752					17163
2       2021       C       4.50       750       10       2020       P       1.80         10       2020       C       2.75       742       1       2021       C       3.00         9       2020       P       2.15       693       12       2020       P       1.50         10       2020       C       2.50       688       11       2020       C       2.75         10       2020       C       2.35       554       4       2021       C       3.00         3       2021       C       2.75       550       1       2021       P       2.25         3       2021       C       3.75       550       10       2020       C       3.50         10       2020       P       1.00       549       9       2020       C       2.40         11       2020       C       2.80       533       1       2021       C       3.75         4       2021       C       3.25       530       2       2021       C       5.00	1	2021	Р	2.25	750					17149
10     2020     C     2.75     742     1     2021     C     3.00       9     2020     P     2.15     693     12     2020     P     1.50       10     2020     C     2.50     688     11     2020     C     2.75       10     2020     C     2.35     554     4     2021     C     3.00       3     2021     C     2.75     550     1     2021     P     2.25       3     2021     C     3.75     550     10     2020     C     3.50       10     2020     P     1.00     549     9     2020     C     2.40       11     2020     C     2.80     533     1     2021     C     3.75       4     2021     C     3.25     530     2     2021     C     5.00	2		С		750					16922
9 2020 P 2.15 693 12 2020 P 1.50 10 2020 C 2.50 688 11 2020 C 2.75 10 2020 C 2.35 554 4 2021 C 3.00 3 2021 C 2.75 550 1 2021 P 2.25 3 2021 C 3.75 550 10 2020 C 3.50 10 2020 P 1.00 549 9 2020 C 2.40 11 2020 C 2.80 533 1 2021 C 3.75 4 2021 C 3.25 530 2 2021 C 5.00								-		16605
10     2020     C     2.50     688     11     2020     C     2.75       10     2020     C     2.35     554     4     2021     C     3.00       3     2021     C     2.75     550     1     2021     P     2.25       3     2021     C     3.75     550     10     2020     C     3.50       10     2020     P     1.00     549     9     2020     C     2.40       11     2020     C     2.80     533     1     2021     C     3.75       4     2021     C     3.25     530     2     2021     C     5.00										16402
10     2020     C     2.35     554     4     2021     C     3.00       3     2021     C     2.75     550     1     2021     P     2.25       3     2021     C     3.75     550     10     2020     C     3.50       10     2020     P     1.00     549     9     2020     C     2.40       11     2020     C     2.80     533     1     2021     C     3.75       4     2021     C     3.25     530     2     2021     C     5.00										15588
3 2021 C 2.75 550 1 2021 P 2.25 3 2021 C 3.75 550 10 2020 C 3.50 10 2020 P 1.00 549 9 2020 C 2.40 11 2020 C 2.80 533 1 2021 C 3.75 4 2021 C 3.25 530 2 2021 C 5.00										14997
3     2021     C     3.75     550     10     2020     C     3.50       10     2020     P     1.00     549     9     2020     C     2.40       11     2020     C     2.80     533     1     2021     C     3.75       4     2021     C     3.25     530     2     2021     C     5.00										14403
10 2020 P 1.00 549 9 2020 C 2.40 11 2020 C 2.80 533 1 2021 C 3.75 4 2021 C 3.25 530 2 2021 C 5.00								-		14385
11 2020 C 2.80 533 1 2021 C 3.75 4 2021 C 3.25 530 2 2021 C 5.00										14204
4 2021 C 3.25 530 2 2021 C 5.00										13927
										13519
5 2021 (: 3.25 530 40 2020 🗈 4.40	5	2021	C	3.25	530	∠ 10	2021	P	5.00 1.40	13253
6 2021 C 3.25 530 10 2020 P 1.40										12929
7 2021 C 3.25 530 9 2020 C 3.25 7 2021 C 3.25 530 10 2021 C 3										12929

Source: CME, Nasdaq, ICE

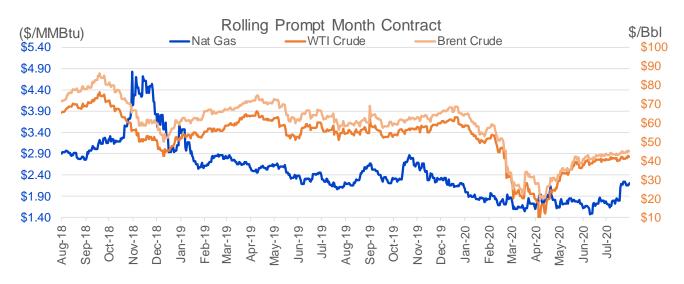


## Nat Gas Futures Open Interest

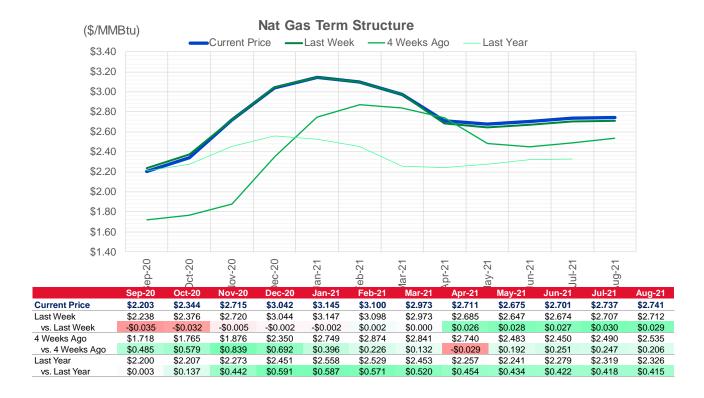
<b>CMF</b>	and	ICF	Com	bined

CME Henry	Hub Futures (10				Futures Co	ntract Equiva	lent (10,000 MM
	Current	Prior	Daily Change	FOR JUNE 26	Current	Prior	Daily Change
SEP 20	147584	174317	-26733	SEP 20	71939	72592	-653.5
OCT 20	201728	184775	16953	OCT 20	82770	82335	434.5
NOV 20	178329	157073	21256	NOV 20	69878	68973	905
DEC 20	92280	91438	842	DEC 20	71892	71712	179.75
JAN 21	125577	125895	-318	JAN 21	87836	87579	256.75
FEB 21	41586	41444	142	FEB 21	53104	53039	65.25
MAR 21	76433	78185	-1752	MAR 21	68356	69204	-847.25
APR 21	77881	77845	36	APR 21	60123	59885	238.25
MAY 21	44218	43896	322	MAY 21	49732	49826	-93.5
JUN 21	22895	23393	-498	JUN 21	47845	48038	-193
JUL 21	17339	17084	255	JUL 21	49761	49653	108.25
AUG 21	16657	16896	-239	AUG 21	48108	48080	28
SEP 21	20512	20116	396	SEP 21	46458	47093	-635.5
OCT 21	50861	50481	380	OCT 21	67693	67899	-205.5
NOV 21	24390	24099	291	NOV 21	40811	40315	496.5
DEC 21	18344	17739	605	DEC 21	41166	41812	-645.75
JAN 22	18998	18875	123	JAN 22	34670	34286	383.75
FEB 22	11165	11133	32	FEB 22	29201	29243	-41.75
MAR 22	16039	16253	-214	MAR 22	31743	31739	4
APR 22	17010	16572	438	APR 22	31150	30758	391.75
MAY 22	5434	5427	7	MAY 22	23317	23241	75.75
JUN 22	2816	2824	-8	JUN 22	23144	23037	106.5
JUL 22	2109	2115	-6	JUL 22	22783	22677	105.75
AUG 22	1739	1740	-1	AUG 22	23135	23025	109.75
SEP 22	2221	2226	-5	SEP 22	22294	22487	-193.5
OCT 22	2749	2780	-31	OCT 22	23950	23879	71
NOV 22	1970	1970	0	NOV 22	21507	21438	69
DEC 22	1948	1948	0	DEC 22	22265	22194	71
JAN 23	2629	2627	2	JAN 23	12276	12182	93.5
FEB 23	678	681	-3	FEB 23	11139	11006	133.25

Source: CME, ICE







		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	1.49	1.72	0.23
TETCO M3	\$/MMBtu	1.42	1.61	0.19
FGT Zone 3	\$/MMBtu	1.53	2.33	0.80
Zone 6 NY	\$/MMBtu	1.53	1.66	0.13
Chicago Citygate	\$/MMBtu	2.03	1.99	-0.04
Michcon	\$/MMBtu	1.97	1.91	-0.06
Columbia TCO Pool	\$/MMBtu	1.89	1.77	-0.12
Ventura	\$/MMBtu	1.89	1.91	0.02
Rockies/Opal	\$/MMBtu	2.22	1.87	-0.36
El Paso Permian Basin	\$/MMBtu	1.49	1.57	80.0
Socal Citygate	\$/MMBtu	4.27	2.02	-2.25
Malin	\$/MMBtu	2.16	1.98	-0.18
Houston Ship Channel	\$/MMBtu	2.14	2.23	0.09
Henry Hub Cash	\$/MMBtu	2.05	2.08	0.03
AECO Cash	C\$/GJ	1.86	1.80	-0.06
Station2 Cash	C\$/GJ	1.82	1.98	0.16
Dawn Cash	C\$/GJ	1.97	1.96	-0.01

Source: CME, Bloomberg



					VS	s. 4 Weeks		
	Units	<b>Current Price</b>	vs.	<b>Last Week</b>		Ago	VS	s. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.43	_	0.028	$\overline{}$	-0.043	$\overline{}$	-0.041
NatGas Mar/Apr	\$/MMBtu	-0.262	_	0.026	$\overline{}$	-0.519	$\overline{}$	-0.513
NatGas Oct/Nov	\$/MMBtu	0.37	_	0.027	$\overline{}$	-0.103		0.309
NatGas Oct/Jan	\$/MMBtu	0.80	_	0.030	$\overline{}$	-0.197		0.462
WTI Crude	\$/Bbl	42.27	_	1.050		1.680	$\overline{}$	-12.600
Brent Crude	\$/Bbl	44.96	_	0.560	_	1.820	$\overline{}$	-13.680
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03	<b>A</b>	0.000	_	0.000		0.000
Heating Oil	cents/Gallon	124.37	_	2.380		2.460	$\overline{}$	-56.910
Propane, Mt. Bel	cents/Gallon	0.50	<u> </u>	0.001	_	0.021		0.116
Ethane, Mt. Bel	cents/Gallon	0.23	_	0.005		0.015		0.087
Coal, PRB	\$/MTon	12.30	<b>A</b>	0.000		0.000		0.200
Coal, ILB	\$/MTon	31.05	_	0.000	_	0.000	$\overline{}$	-7.000