

Annual Average NYMEX Strip Comparison

7/03/2017

Month To Month change

Year	Year to Year change	Oil Price Deck (\$/bbl)						
		7/3/2017	6/1/2017	5/1/2017	4/3/2017	3/1/2017	2/1/2017	
2017 Average	-10.4%	47.52	48.84	49.58	51.31	54.81	55.45	
2018 Average	-10.5%	49.06	49.19	50.21	51.92	54.83	56.15	
2019 Average	-9.8%	50.34	48.90	49.95	51.60	54.22	56.01	
2020 Average	-9.3%	51.46	49.26	50.15	51.73	53.91	56.22	
2021 Average	-8.4%	52.70	50.11	50.81	52.37	54.09	56.45	
2022 Average	-7.4%	53.96	51.19	51.86	53.37	54.72	56.86	
2023 Average	-7.1%	54.91	52.10	52.74	54.22	55.83	57.35	
2024 Average	-6.5%	55.84	53.04	53.62	55.11	56.58	57.90	
2025 Average	na	56.56	53.72	54.31	55.76	52.31	58.28	

-2.7%
-0.3%
2.9%
4.5%
5.2%
5.4%
5.4%
5.3%
5.3%

Year	Oil Price Deck (\$/bbl)						
	12/30/2016	12/1/2016	11/1/2016	10/3/2016	9/1/2016	8/1/2016	
2016 Average	53.80	53.57	46.67	49.11	43.75	41.23	
2017 Average	53.93	53.93	49.54	51.94	47.00	45.23	
2018 Average	54.08	54.08	51.90	53.94	49.44	48.13	
2019 Average	54.61	54.61	53.21	55.07	50.88	49.90	
2020 Average	55.32	55.32	54.27	56.16	52.01	51.31	
2021 Average	56.18	56.18	55.24	57.19	52.97	52.40	
2022 Average	56.95	56.55	55.99	58.01	53.77	53.23	
2023 Average	57.63	57.63	56.77	58.87	54.63	54.06	
2024 Average	58.01	58.01	57.43	59.53	55.29	54.72	

7/1/2016
50.21
53.02
54.79
55.83
56.73
57.55
58.28
59.10
59.75

Month To Month change

Year	Year to Year change	Gas Price Deck (\$/mmbtu)						
		7/3/2017	6/1/2017	5/1/2017	4/3/2017	3/1/2017	2/1/2017	
2017 Average	-6%	3.028	3.089	3.329	3.291	3.066	3.318	
2018 Average	-3%	2.962	3.012	3.083	3.037	2.991	3.092	
2019 Average	-6%	2.838	2.850	2.874	2.839	2.877	2.876	
2020 Average	-7%	2.835	2.823	2.871	2.830	2.862	2.868	
2021 Average	-10%	2.871	2.858	2.898	2.839	2.859	2.877	
2022 Average	-13%	2.918	2.915	2.928	2.849	2.859	2.886	
2023 Average	-16%	2.980	2.986	2.973	2.888	2.893	2.915	
2024 Average	-18%	3.050	3.068	3.025	2.944	2.936	2.974	
2025 Average	-19%	3.137	3.158	3.095	3.008	2.992	3.049	
2026 Average	-20%	3.229	3.250	3.163	3.078	3.057	3.129	
2027 Average	-21%	3.322	3.336	3.240	3.158	3.137	3.215	
2028 Average	-22%	3.412	3.423	3.322	3.242	3.222	3.309	
2029 Average	na	3.500	3.511	3.409	3.335	3.318	3.431	

-2%
-2%
0%
0%
0%
0%
0%
-1%
-1%
-1%
0%
0%

Year	Gas Price Deck (\$/mmbtu)						
	12/30/2016	12/1/2016	11/1/2016	10/3/2016	9/1/2016	8/1/2016	
2016 Average	3.606	3.381	2.769	3.047	2.938	2.952	
2017 Average	3.141	3.039	2.983	3.127	3.081	3.144	
2018 Average	2.873	2.899	2.936	2.941	2.963	3.005	
2019 Average	2.877	2.909	2.901	2.832	2.938	2.980	
2020 Average	2.905	2.939	2.931	2.851	3.001	3.038	
2021 Average	2.934	2.989	3.021	2.948	3.119	3.163	
2022 Average	3.023	3.090	3.141	3.098	3.294	3.328	
2023 Average	3.158	3.235	3.312	3.249	3.471	3.510	
2024 Average	3.308	3.401	3.495	3.402	3.653	3.699	
2025 Average	3.456	3.562	3.675	3.561	3.832	3.880	
2026 Average	3.606	3.716	3.848	3.722	4.006	4.054	
2027 Average	3.755	3.880	4.014	3.884	4.174	4.223	
2028 Average	3.905	4.054	4.180	4.047	4.336	4.394	

7/1/2016
3.098
3.222
3.049
3.019
3.063
3.192
3.354
3.526
3.705
3.882
4.056
4.225
4.396

NYMEX (CME) WTI 7/3/2017 Strip

Light Sweet Crude Oil Futures http://www.cmegroup.com/trading/energy/crude-oil/light-sweet-crude_quotes_settlements_futures.html

Daily Settlements for Light Sweet Crude Oil Futures (FINAL) Trade Date : 7/3/2017

Month	Open	High	Low	Last	Change	Settle	Estimated Volume	Prior Day Open Interest		
17-Aug	46.28	47.10	45.92	47.05	1.03	47.07	529,099	517,659		
17-Sep	46.51	47.32	46.14	47.28	1.00	47.29	101,727	333,446		
17-Oct	46.71	47.53	46.36	47.46	0.98	47.49	31,091	121,146		
17-Nov	46.97	47.76	46.61	47.69A	0.97	47.74	15,993	105,523		
17-Dec	47.30	48.03	46.89	47.94A	0.96	48.01	55,836	317,603	47.52	2017 Average
18-Jan	47.48	48.27	47.15	48.18B	0.95	48.26	10,136	100,033		
18-Feb	47.60	48.47	47.49	48.38	0.94	48.46	5,685	40,823		
18-Mar	47.91	48.61B	47.69A	48.47	0.93	48.63	9,301	62,741		
18-Apr	47.97	48.80	47.94A	48.67	0.92	48.77	2,430	23,030		
18-May	48.02	48.82	48.00	48.82	0.92	48.90	1,834	25,335		
18-Jun	48.14	49.05	47.98A	48.90A	0.92	49.03	18,872	114,672		
18-Jul	48.29	49.18	48.11A	49.00	0.93	49.14	2,043	21,583		
18-Aug	48.36	48.38B	48.31	48.31	0.94	49.26	1,254	10,981		
18-Sep	49.34	49.34	49.34	49.34	0.93	49.37	1,533	31,856		
18-Oct	49.00	49.00	48.99	49.00	0.93	49.49	461	13,067		
18-Nov	-	-	-	-	0.94	49.62	532	17,453		
18-Dec	49.05	49.75	48.75A	49.58A	0.94	49.75	22,618	157,870	49.06	2018 Average
19-Jan	-	-	-	-	0.93	49.83	195	15,494		
19-Feb	-	-	-	-	0.93	49.92	57	4,171		
19-Mar	-	-	-	-	0.93	50.01	244	17,228		
19-Apr	-	49.51B	-	49.51B	0.93	50.12	77	3,954		
19-May	-	49.57B	-	49.57B	0.93	50.21	46	4,005		
19-Jun	49.61	50.31	49.42	50.20	0.93	50.32	1,103	20,781		
19-Jul	-	-	-	-	0.93	50.39	16	3,618		
19-Aug	-	-	-	-	0.93	50.46	33	394		
19-Sep	-	-	-	-	0.93	50.54	29	5,628		
19-Oct	-	-	-	-	0.93	50.65	21	1,265		
19-Nov	-	-	-	-	0.94	50.77	15	1,526		
19-Dec	50.17	50.89	49.94A	50.63B	0.94	50.90	2,836	47,041	50.34	2019 Average
20-Jan	-	-	-	-	0.94	50.97	15	1,155		
20-Feb	-	-	-	-	0.94	51.04	5	1,058		
20-Mar	-	-	-	-	0.94	51.12	1	1,021		
20-Apr	-	-	-	-	0.94	51.21	0	10		
20-May	-	-	-	-	0.94	51.31	0	18		
20-Jun	-	-	-	-	0.95	51.43	2	3,648		
20-Jul	-	-	-	-	0.95	51.48	0	111		
20-Aug	-	-	-	-	0.95	51.55	0	10		
20-Sep	-	-	-	-	0.94	51.64	0	229		
20-Oct	-	-	-	-	0.93	51.76	0	1		
20-Nov	-	-	-	-	0.93	51.90	0	35		
20-Dec	51.58	51.69	51.50A	51.68A	0.93	52.06	82	21,207	51.46	2020 Average
21-Jan	-	-	-	-	0.93	52.14	0	0		
21-Feb	-	-	-	-	0.93	52.23	0	0		
21-Mar	-	-	-	-	0.93	52.32	0	0		
21-Apr	-	-	-	-	0.93	52.42	0	0		
21-May	-	-	-	-	0.93	52.54	0	0		
21-Jun	-	-	-	-	0.93	52.68	0	400		
21-Jul	-	-	-	-	0.93	52.74	0	0		
21-Aug	-	-	-	-	0.93	52.82	0	0		
21-Sep	-	-	-	-	0.93	52.93	0	0		
21-Oct	-	-	-	-	0.93	53.06	0	1		
21-Nov	-	-	-	-	0.93	53.20	0	0		
21-Dec	-	-	-	-	0.93	53.36	0	4,790	52.70	2021 Average
22-Jan	-	-	-	-	0.93	53.42	0	0		
22-Feb	-	-	-	-	0.93	53.50	0	0		
22-Mar	-	-	-	-	0.93	53.59	0	0		
22-Apr	-	-	-	-	0.93	53.69	0	0		
22-May	-	-	-	-	0.93	53.81	0	0		
22-Jun	-	-	-	-	0.93	53.95	0	0		

NYMEX (CME) WTI 7/3/2017 Strip

Light Sweet Crude Oil Futures http://www.cmegroup.com/trading/energy/crude-oil/light-sweet-crude_quotes_settlements_futures.html

Daily Settlements for Light Sweet Crude Oil Futures (FINAL) Trade Date : 7/3/2017

Month	Open	High	Low	Last	Change	Settle	Estimated Volume	Prior Day Open Interest		
22-Jul	-	-	-	-	0.93	54.00	0	0		
22-Aug	-	-	-	-	0.93	54.07	0	0		
22-Sep	-	-	-	-	0.93	54.17	0	0		
22-Oct	-	-	-	-	0.93	54.29	0	0		
22-Nov	-	-	-	-	0.93	54.43	0	0		
22-Dec	-	53.96B	-	53.96B	0.93	54.59	0	406	53.96	2022 Average
23-Jun	-	-	-	-	0.91	55.07	0	0		
23-Dec	-	54.90B	-	54.90B	0.90	55.58	0	146	54.91	2023 Average
24-Jun	-	-	-	-	0.90	55.97	0	0		
24-Dec	-	-	-	-	0.91	56.38	0	8	55.84	2024 Average
25-Jun	-	-	-	-	0.91	56.65	0	0		
25-Dec	-	-	-	-	0.91	56.93	0	10	56.56	2025 Average
Total							815,222	2,174,190		

NYMEX (CME) HH 7/3/2017 Strip

Natural Gas (Henry Hub) Futures http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_quotes_settlements_futures.html

Daily Settlements for Henry Hub Natural Gas Futures (FINAL) Trade Date : 7/3/2017

Month	Open	High	Low	Last	Change	Settle	Estimated Volume	Prior Day Open Interest		
17-Aug	2.949	3.050	2.935	2.950	-0.084	2.951	148,206	275,176		
17-Sep	2.953	3.048	2.935	2.951	-0.078	2.953	41,744	177,321		
17-Oct	2.977	3.073	2.963	2.990	-0.074	2.984	30,457	179,197		
17-Nov	3.063	3.132	3.028	3.048	-0.070	3.048	13,901	73,813		
17-Dec	3.192	3.282	3.186	3.209	-0.062	3.205	10,906	67,447	3.028	2017 Average
18-Jan	3.292	3.372	3.275	3.306	-0.055	3.301	17,628	111,644		
18-Feb	3.269	3.352	3.263	3.292	-0.053	3.283	6,034	43,887		
18-Mar	3.200	3.286	3.188	3.228B	-0.046	3.222	10,723	78,590		
18-Apr	2.820	2.871	2.820	2.829	-0.034	2.824	13,508	92,455		
18-May	2.782	2.838	2.773	2.796A	-0.026	2.792	6,378	37,389		
18-Jun	2.800	2.857	2.800	2.820	-0.024	2.820	1,425	16,972		
18-Jul	2.874	2.883	2.846	2.850	-0.022	2.848	1,469	25,573		
18-Aug	2.801	2.890	2.801	2.855B	-0.021	2.855	1,398	17,358		
18-Sep	2.860	2.867B	2.831	2.831A	-0.021	2.831	212	18,249		
18-Oct	2.869	2.887	2.850	2.850	-0.020	2.850	1,909	41,853		
18-Nov	2.888	2.929	2.888	2.907	-0.020	2.897	862	17,466		
18-Dec	3.020	3.058B	3.012	3.025A	-0.022	3.023	705	20,095	2.962	2018 Average
19-Jan	3.121	3.123	3.110	3.110	-0.022	3.110	349	10,015		
19-Feb	3.081	3.108B	3.081	3.090	-0.020	3.086	303	3,188		
19-Mar	3.020	3.037	3.020	3.037	-0.016	3.024	331	5,391		
19-Apr	2.707	2.707	2.691	2.691	-0.013	2.694	134	5,600		
19-May	2.690	2.690	2.670	2.670	-0.013	2.669	18	1,524		
19-Jun	-	-	-	-	-0.013	2.698	24	1,475		
19-Jul	-	-	-	-	-0.013	2.728	8	1,400		
19-Aug	-	-	-	-	-0.013	2.742	3	1,253		
19-Sep	-	-	2.740A	2.740A	-0.013	2.735	25	1,184		
19-Oct	-	-	2.765A	2.765A	-0.013	2.761	0	2,143		
19-Nov	-	-	-	-	-0.013	2.835	0	1,327		
19-Dec	-	-	2.980A	2.980A	-0.013	2.978	0	1,369	2.838	2019 Average
20-Jan	3.080	3.080	3.080	3.080	-0.012	3.083	1	970		
20-Feb	-	-	-	-	-0.012	3.057	0	531		
20-Mar	-	-	-	-	-0.011	2.993	0	653		
20-Apr	-	-	-	-	-0.011	2.683	0	803		
20-May	-	-	-	-	-0.011	2.665	0	630		
20-Jun	-	-	-	-	-0.011	2.695	0	533		
20-Jul	-	-	-	-	-0.011	2.727	0	515		
20-Aug	-	-	-	-	-0.011	2.748	0	478		
20-Sep	-	-	-	-	-0.011	2.747	0	478		
20-Oct	-	-	-	-	-0.011	2.774	0	505		
20-Nov	-	-	-	-	-0.011	2.852	0	512		
20-Dec	-	-	-	-	-0.010	2.999	0	809	2.835	2020 Average
21-Jan	-	-	-	-	-0.010	3.114	0	142		
21-Feb	-	-	-	-	-0.008	3.088	0	132		
21-Mar	-	-	-	-	-0.007	3.024	0	119		
21-Apr	-	-	-	-	-0.007	2.714	0	83		
21-May	-	-	-	-	-0.007	2.699	0	69		
21-Jun	-	-	-	-	-0.007	2.727	0	68		
21-Jul	-	-	-	-	-0.007	2.759	0	66		
21-Aug	-	-	-	-	-0.007	2.783	0	68		
21-Sep	-	-	-	-	-0.007	2.788	0	74		
21-Oct	-	-	-	-	-0.007	2.816	0	70		
21-Nov	-	-	-	-	-0.007	2.894	0	69		
21-Dec	-	-	-	-	-0.007	3.042	0	103	2.871	2021 Average
22-Jan	-	-	-	-	-0.007	3.160	0	9		
22-Feb	-	-	-	-	-0.004	3.130	0	5		
22-Mar	-	-	-	-	-0.005	3.066	0	7		
22-Apr	-	-	-	-	-0.005	2.756	0	13		
22-May	-	-	-	-	-0.005	2.744	0	14		
22-Jun	-	-	-	-	-0.005	2.772	0	13		
22-Jul	-	-	-	-	-0.005	2.804	0	14		
22-Aug	-	-	-	-	-0.005	2.832	0	14		

NYMEX (CME) HH 7/3/2017 Strip

Natural Gas (Henry Hub) Futures http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_quotes_settlements_futures.html

Daily Settlements for Henry Hub Natural Gas Futures (FINAL) Trade Date : 7/3/2017

Month	Open	High	Low	Last	Change	Settle	Estimated Volume	Prior Day Open Interest		
22-Sep	-	-	-	-	-0.005	2.837	0	13		
22-Oct	-	-	-	-	-0.005	2.869	0	13		
22-Nov	-	-	-	-	-0.005	2.947	0	13		
22-Dec	-	-	-	-	-0.005	3.102	0	2	2.918	2022 Average
23-Jan	-	-	-	-	-0.005	3.222	0	3		
23-Feb	-	-	-	-	-0.004	3.191	0	0		
23-Mar	-	-	-	-	-0.004	3.127	0	0		
23-Apr	-	-	-	-	-0.004	2.817	0	11		
23-May	-	-	-	-	-0.004	2.805	0	13		
23-Jun	-	-	-	-	-0.004	2.833	0	11		
23-Jul	-	-	-	-	-0.004	2.865	0	0		
23-Aug	-	-	-	-	-0.004	2.893	0	0		
23-Sep	-	-	-	-	-0.004	2.898	0	0		
23-Oct	-	-	-	-	-0.004	2.933	0	4		
23-Nov	-	-	-	-	-0.004	3.011	0	0		
23-Dec	-	-	-	-	-0.004	3.161	0	0	2.980	2023 Average
24-Jan	-	-	-	-	-0.004	3.283	0	0		
24-Feb	-	-	-	-	-0.003	3.250	0	0		
24-Mar	-	-	-	-	-0.003	3.185	0	0		
24-Apr	-	-	-	-	-0.003	2.875	0	0		
24-May	-	-	-	-	-0.003	2.862	0	2		
24-Jun	-	-	-	-	-0.003	2.893	0	0		
24-Jul	-	-	-	-	-0.003	2.934	0	0		
24-Aug	-	-	-	-	-0.003	2.970	0	0		
24-Sep	-	-	-	-	-0.003	2.978	0	0		
24-Oct	-	-	-	-	-0.003	3.021	0	0		
24-Nov	-	-	-	-	-0.003	3.099	0	0		
24-Dec	-	-	-	-	-0.003	3.249	0	0	3.050	2024 Average
25-Jan	-	-	-	-	-0.003	3.374	0	0		
25-Feb	-	-	-	-	-0.001	3.339	0	0		
25-Mar	-	-	-	-	-0.001	3.270	0	0		
25-Apr	-	-	-	-	-0.001	2.955	0	0		
25-May	-	-	-	-	-0.001	2.940	0	1		
25-Jun	-	-	-	-	-0.001	2.973	0	0		
25-Jul	-	-	-	-	-0.001	3.015	0	0		
25-Aug	-	-	-	-	-0.001	3.053	0	0		
25-Sep	-	-	-	-	-0.001	3.066	0	0		
25-Oct	-	-	-	-	-0.001	3.118	0	0		
25-Nov	-	-	-	-	-0.001	3.193	0	0		
25-Dec	-	-	-	-	-0.001	3.343	0	0	3.137	2025 Average
26-Jan	-	-	-	-	-0.001	3.473	0	0		
26-Feb	-	-	-	-	UNCH	3.433	0	0		
26-Mar	-	-	-	-	0.001	3.360	0	0		
26-Apr	-	-	-	-	0.001	3.040	0	0		
26-May	-	-	-	-	0.001	3.025	0	0		
26-Jun	-	-	-	-	0.001	3.058	0	0		
26-Jul	-	-	-	-	0.001	3.103	0	0		
26-Aug	-	-	-	-	0.001	3.143	0	0		
26-Sep	-	-	-	-	0.001	3.158	0	0		
26-Oct	-	-	-	-	0.001	3.213	0	0		
26-Nov	-	-	-	-	0.001	3.291	0	0		
26-Dec	-	-	-	-	0.001	3.446	0	0	3.229	2026 Average
27-Jan	-	-	-	-	0.001	3.586	0	0		
27-Feb	-	-	-	-	0.002	3.544	0	0		
27-Mar	-	-	-	-	0.004	3.471	0	0		
27-Apr	-	-	-	-	0.004	3.126	0	0		
27-May	-	-	-	-	0.004	3.111	0	0		
27-Jun	-	-	-	-	0.004	3.144	0	0		
27-Jul	-	-	-	-	0.004	3.189	0	0		
27-Aug	-	-	-	-	0.004	3.229	0	0		
27-Sep	-	-	-	-	0.004	3.244	0	0		

NYMEX (CME) HH 7/3/2017 Strip

Natural Gas (Henry Hub) Futures http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_quotes_settlements_futures.html

Daily Settlements for Henry Hub Natural Gas Futures (FINAL) Trade Date : 7/3/2017

Month	Open	High	Low	Last	Change	Settle	Estimated Volume	Prior Day Open Interest		
27-Oct	-	-	-	-	0.004	3.299	0	0		
27-Nov	-	-	-	-	0.004	3.379	0	0		
27-Dec	-	-	-	-	0.004	3.539	0	0	3.322	2027 Average
28-Jan	-	-	-	-	0.004	3.684	0	0		
28-Feb	-	-	-	-	0.005	3.641	0	0		
28-Mar	-	-	-	-	0.005	3.566	0	0		
28-Apr	-	-	-	-	0.005	3.211	0	0		
28-May	-	-	-	-	0.005	3.196	0	0		
28-Jun	-	-	-	-	0.005	3.231	0	0		
28-Jul	-	-	-	-	0.005	3.276	0	0		
28-Aug	-	-	-	-	0.005	3.316	0	0		
28-Sep	-	-	-	-	0.005	3.331	0	0		
28-Oct	-	-	-	-	0.005	3.386	0	0		
28-Nov	-	-	-	-	0.005	3.469	0	0		
28-Dec	-	-	-	-	0.005	3.634	0	0	3.412	2028 Average
29-Jan	-	-	-	-	0.006	3.783	0	0		
29-Feb	-	-	-	-	0.007	3.740	0	0		
29-Mar	-	-	-	-	0.007	3.665	0	0		
29-Apr	-	-	-	-	0.007	3.295	0	0		
29-May	-	-	-	-	0.007	3.280	0	0		
29-Jun	-	-	-	-	0.007	3.315	0	0		
29-Jul	-	-	-	-	0.007	3.360	0	0		
29-Aug	-	-	-	-	0.007	3.400	0	0		
29-Sep	-	-	-	-	0.007	3.415	0	0		
29-Oct	-	-	-	-	0.007	3.470	0	0		
29-Nov	-	-	-	-	0.007	3.553	0	0		
29-Dec	-	-	-	-	0.007	3.723	0	0	3.500	2029 Average
Total							308,661	1,339,009		

Last Updated: Tuesday 4, July 2017 3:03 PM