



WEEKLY NATURAL GAS MARKET UPDATE

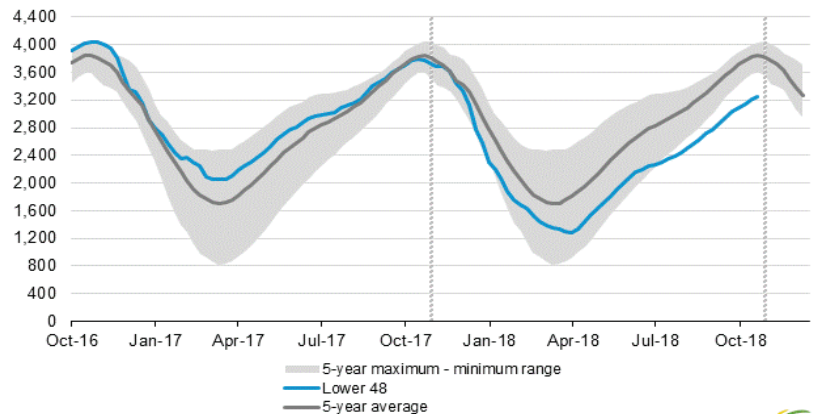
NOVEMBER 19, 2018

The Dec-2018 NYMEX natural gas contract closed Friday at \$4.272, up \$0.553 for the week. The 12-month strip average price of natural gas rose by \$0.161 over the same period. The Dec-2018 NYMEX crude oil contract closed Friday at \$56.46, down \$3.73 for the week. Updated NOAA forecasts suggest that after a slight warm-up to close out November, temperatures for December are now expected to be normal/below normal across the eastern ~2/3 of the US. Baker Hughes reported on Friday that the US natural gas rig count fell by 1 to 194 while total rigs (gas/oil combined) were up by 1 to 1082. In its most recent natural gas storage data, the EIA reported an injection of 39 Bcf into national inventories, a number at the high end of consensus market expectations. Early estimates for this week's report indicate an expected withdrawal, the first of the season, in the range of 110 to 120 Bcf vs. a withdrawal of 42 Bcf for the same week last year and a 5-yr avg. injection of 25 Bcf.

EIA NATURAL GAS STORAGE REPORT
Week Ending November 9, 2018

Region	Inv. Level	Week Δ	Year Ago	5yr Avg.
East	835	+4	916	920
Midwest	991	+11	1109	1098
Mountain	181	-1	221	219
Pacific	266	+1	315	351
S. Central	974	+25	1214	1259
Total	3247	+39	3775	3848

WORKING GAS IN UNDERGROUND STORAGE
COMPARED WITH 5-YEAR RANGE

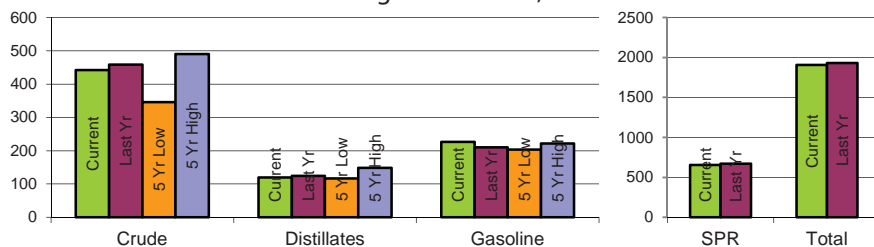


Source: U.S. Energy Information Administration



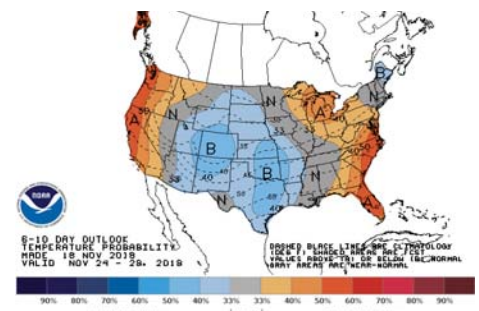
Storage Highlights: Working gas in storage was 3,247 Bcf as of Friday, November 9, 2018, according to EIA estimates. This represents a net increase of 39 Bcf from the previous week. Stocks were 528 Bcf less than last year at this time and 601 Bcf below the five-year average of 3,848 Bcf. At 3,247 Bcf, total working gas is below the five-year historical range.

EIA PETROLEUM INVENTORY (BARRELS X 1000)
Week Ending November 9, 2018

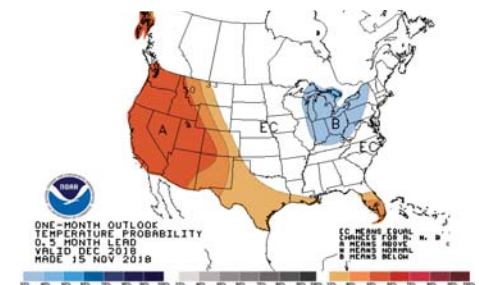


U.S. commercial crude oil inventories (excluding those in the Strategic Petroleum Reserve) increased by 10.3 million barrels from the previous week. At 442.1 million barrels, U.S. crude oil inventories are about 5% above the five year average for this time of year. Total motor gasoline inventories decreased by 1.4 million barrels last week and are about 7% above the five year average for this time of year. Finished gasoline inventories increased while blending components inventories decreased last week. Distillate fuel inventories decreased by 3.6 million barrels last week and are about 8% below the five year average for this time of year. Propane/propylene inventories decreased by 0.8 million barrels last week and are at the five year average for this time of year. Total commercial petroleum inventories decreased last week by 1.4 million barrels last week.

6-10 DAY TEMP OUTLOOK (NOAA)



DEC-2018 TEMP OUTLOOK (NOAA)



BAKER HUGHES US NATURAL GAS RIG COUNT, 11/16/2018

	This Week	+/-	Last Week	+/-	Year Ago
Gas Rigs	194	-1	195	+17	177