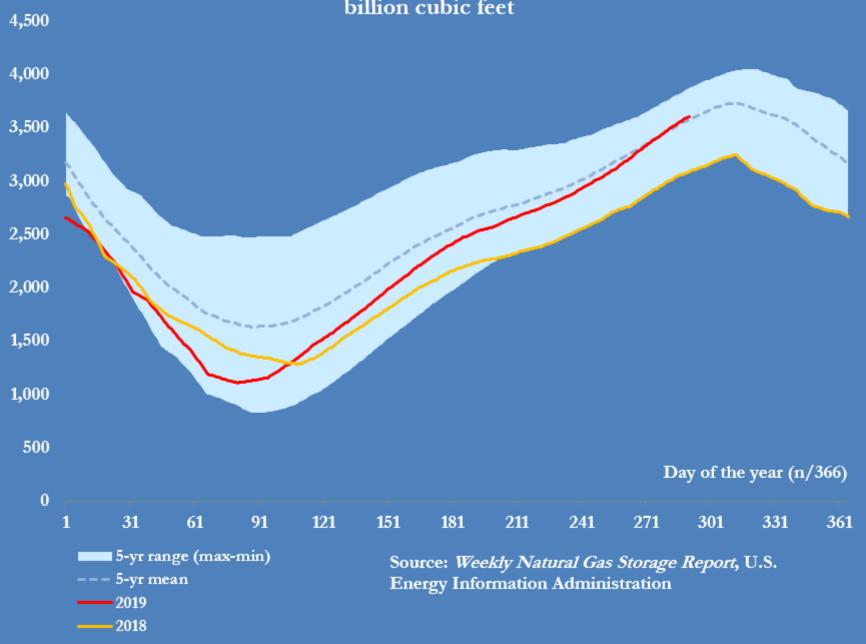
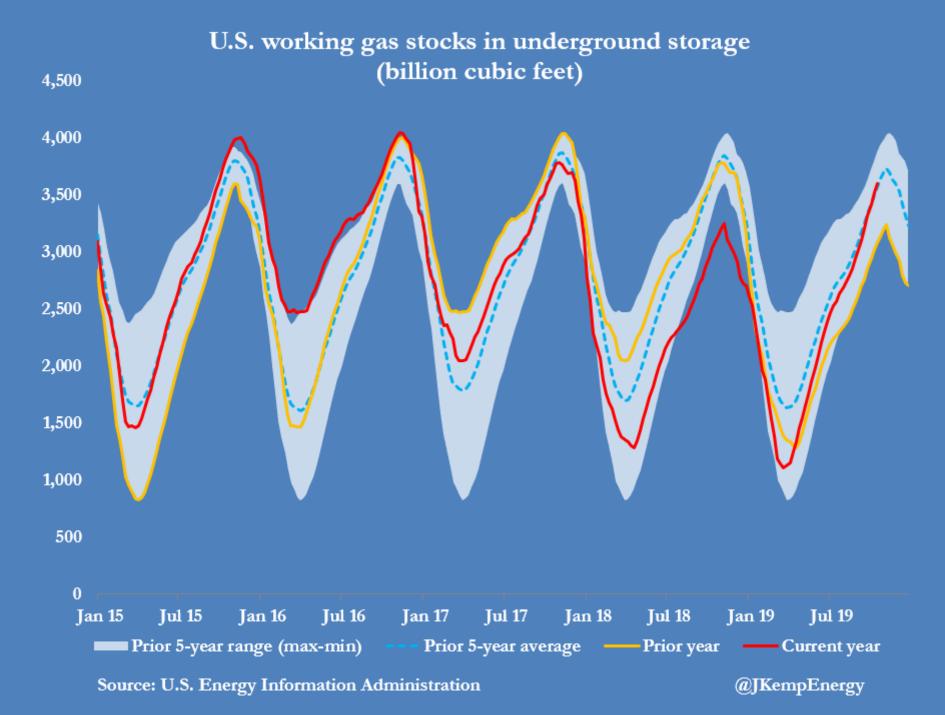
U.S. natural gas Selected indicators

JOHN KEMP REUTERS

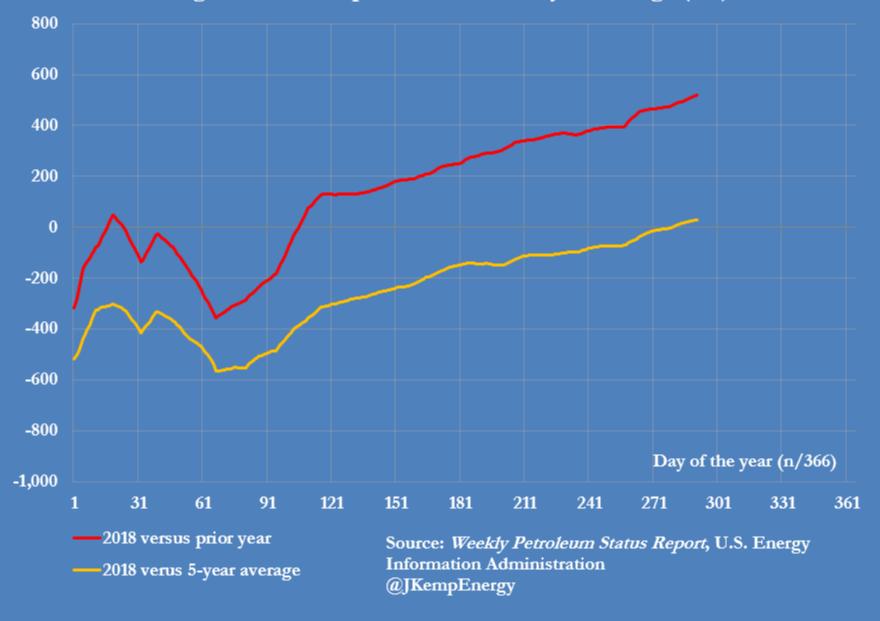
29 October 2019

U.S. working gas stocks in underground storage billion cubic feet

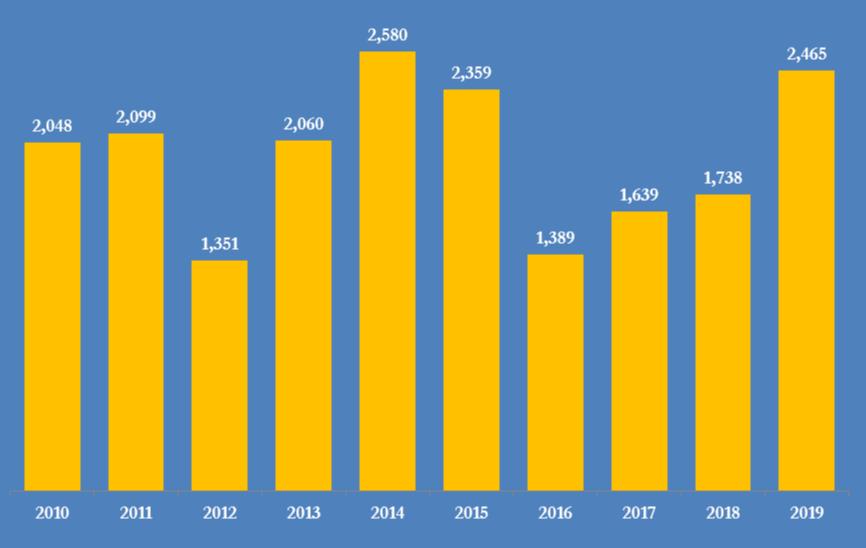




U.S. working gas stocks in underground storage (L48) change versus same point in 2018 and 5-year average (bcf)



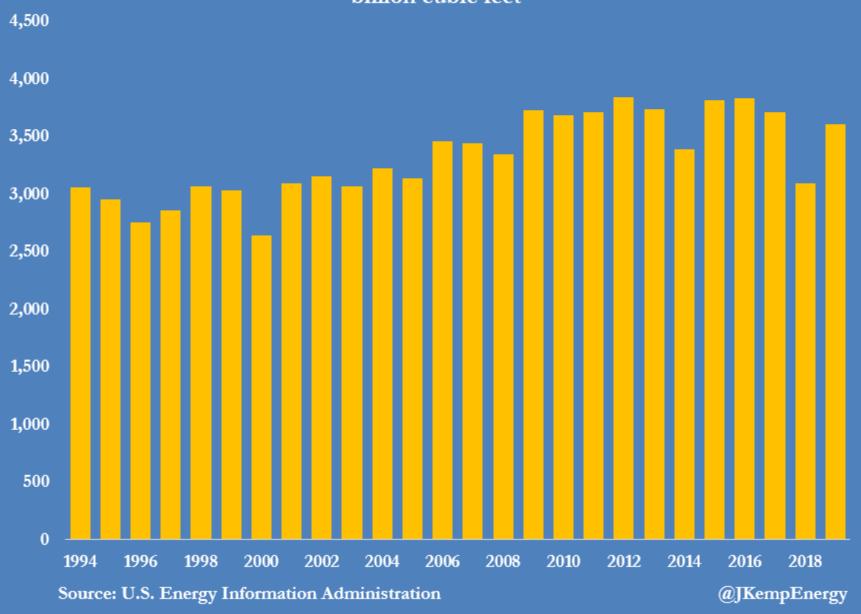
## Increase in U.S. natural gas stocks between April 1 and Oct 18 each year between 2010 and 2019



Source: US Energy Information Administration

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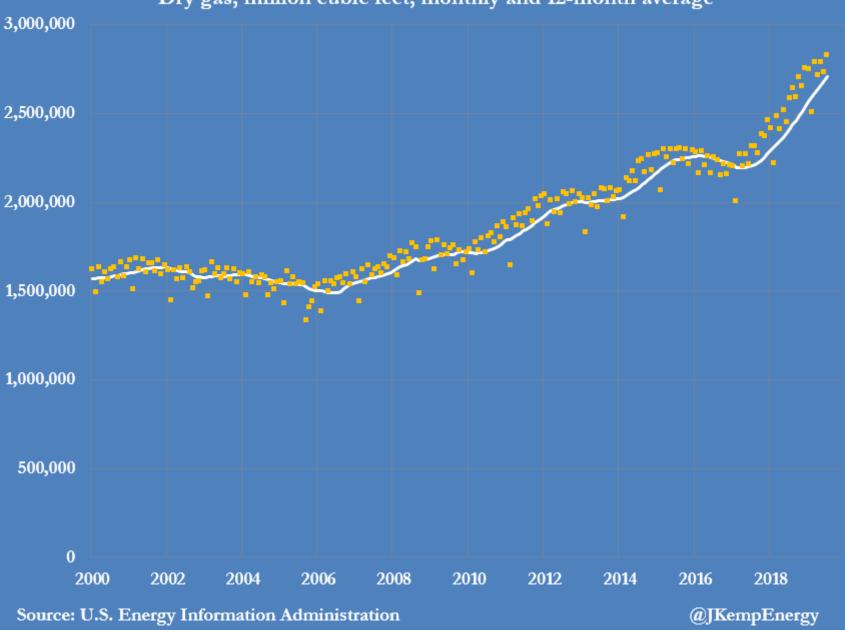
U.S. gas stocks at end of second week in Oct, 1994-2019 billion cubic feet



U.S. natural gas prices for calendar years 2020 and 2021 Front-month Henry Hub futures, U.S.\$ per million British thermal units

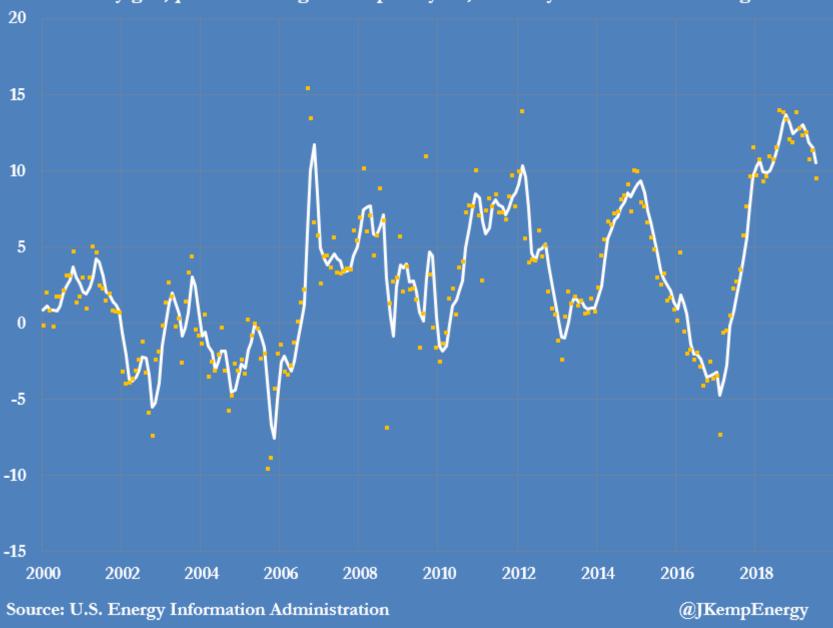


U.S. natural gas production, 2000-2019
Dry gas, million cubic feet, monthly and 12-month average

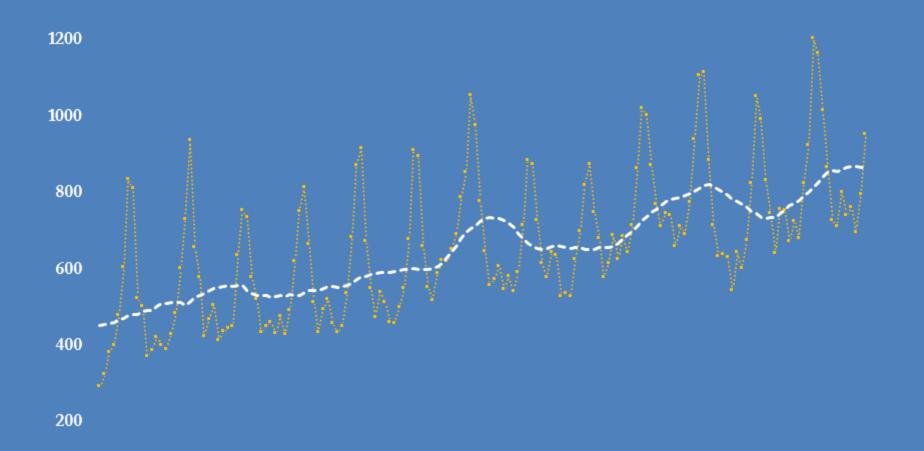


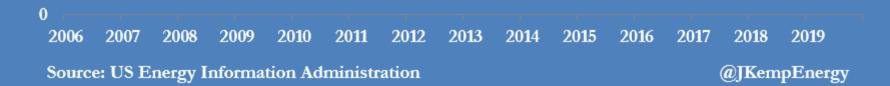
U.S. natural gas production, 2000-2019

Dry gas, percent change from prior year, monthly and 3-month average

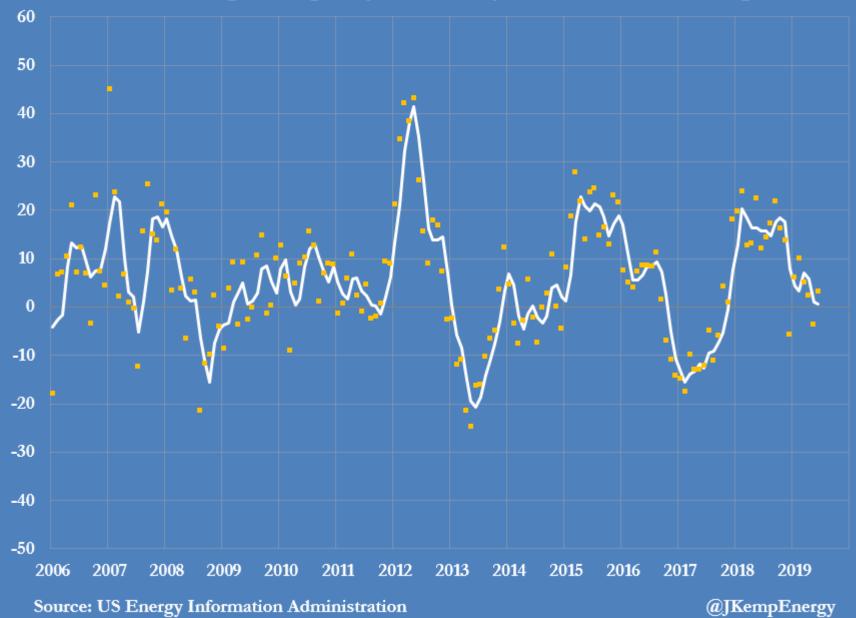




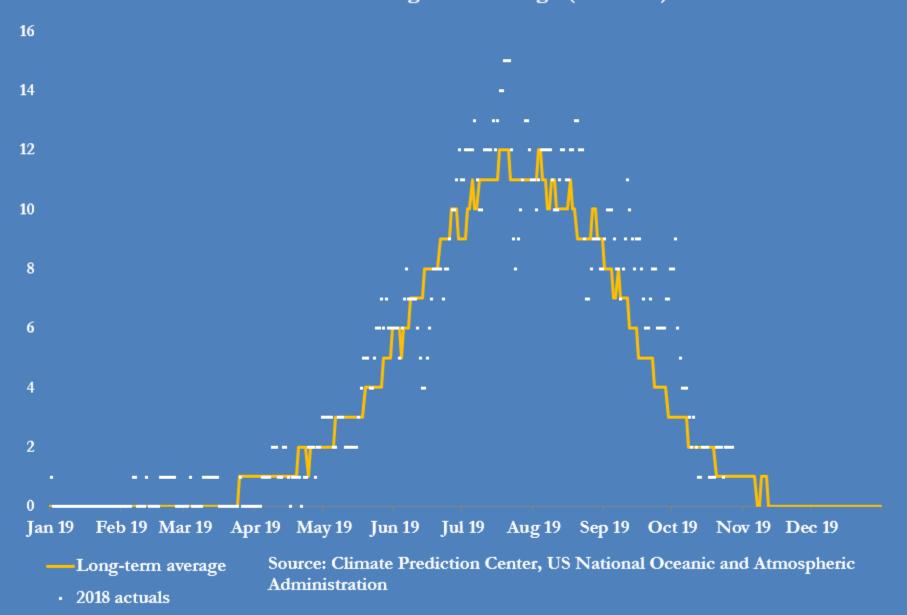




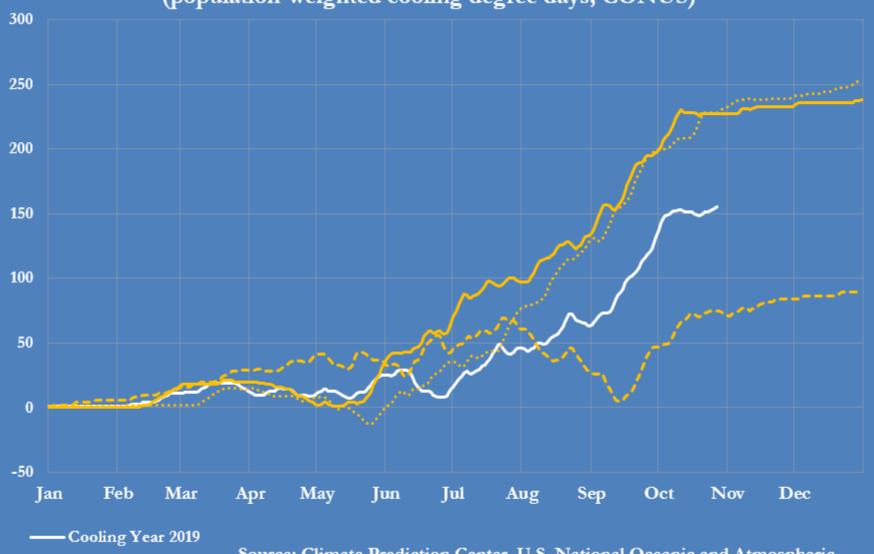
Consumption of natural gas by U.S. power producers Percent change from prior year, monthly and three-month average



U.S. cooling demand: daily population-weighted cooling degree days in 2019 versus long-term average (CONUS)



U.S. cooling demand: cumulative deviation from normal (population-weighted cooling degree days, CONUS)

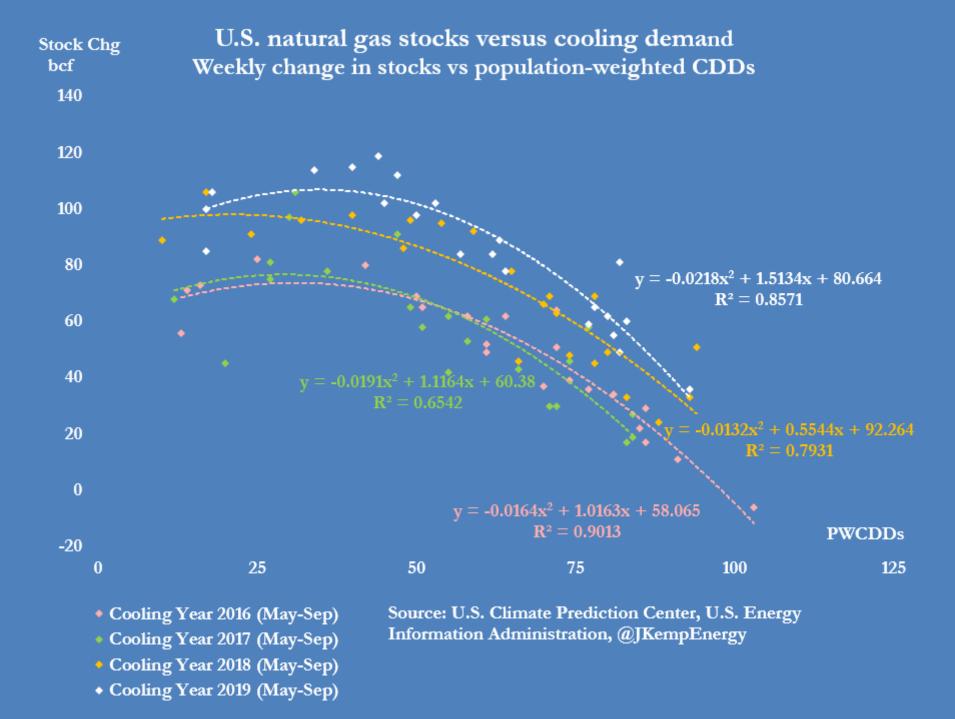


Cooling Year 2018

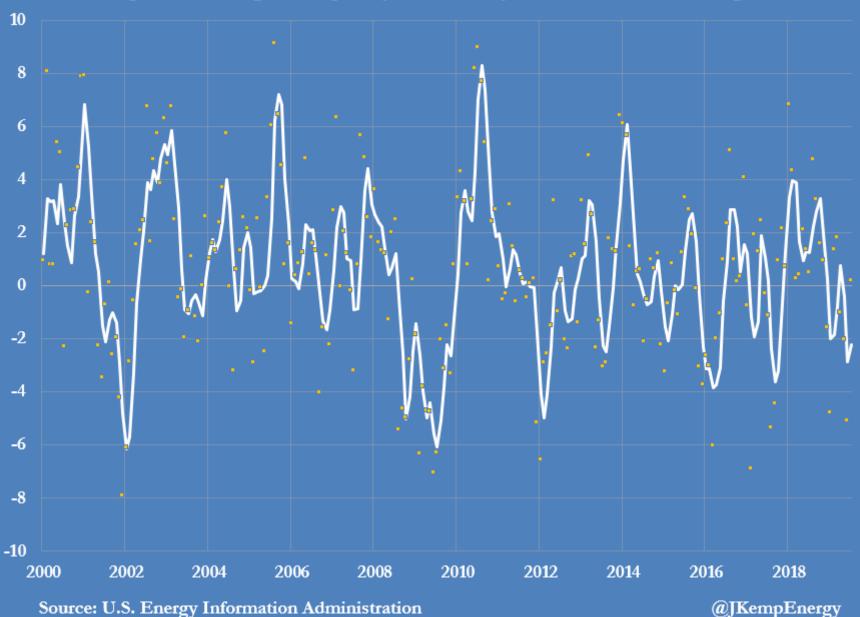
--- Cooling Year 2017

····· Cooling Year 2016

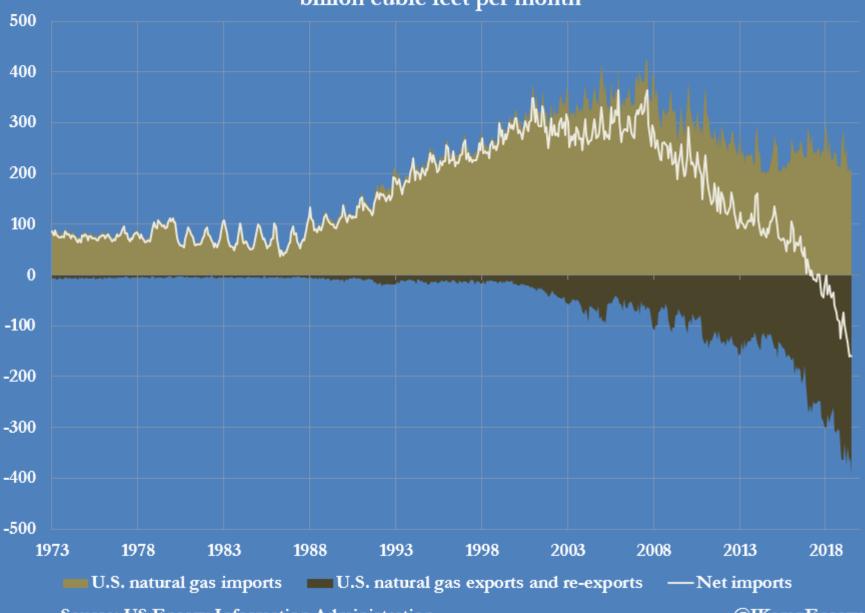
Source: Climate Prediction Center, U.S. National Oceanic and Atmospheric Administration, @JKempEnergy



U.S. electricity consumption, 2000-2019 percent change from prior year, monthly and three-month average



U.S. net imports of natural gas, 1973-2019 billion cubic feet per month



Source: US Energy Information Administration

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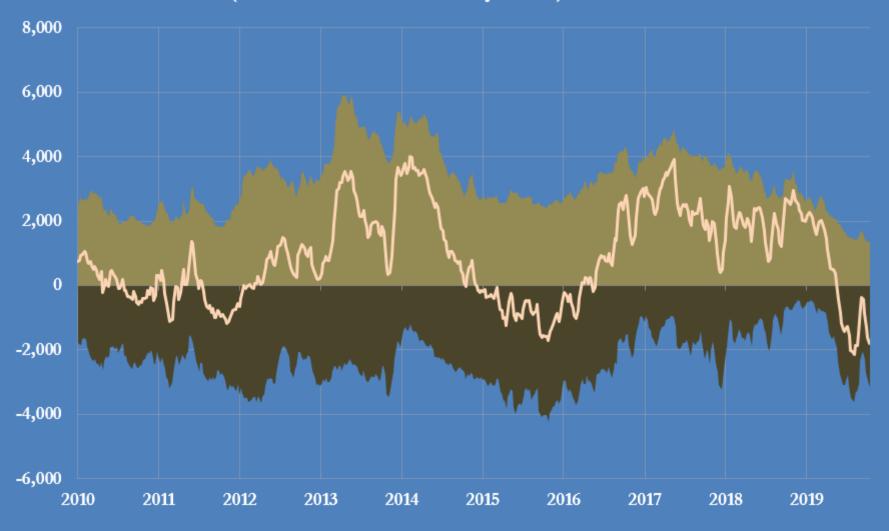
## Number of rigs drilling for gas in the United States



Source: Baker Hughes

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## Money managers' long and short positions in US natural gas futures (NYMEX + ICE Henry Hub) billion cubic feet



- Long positions (billion cubic feet)
- Short positions (billion cubic feet)
- —Net position (billion cubic feet)

Source: US Commodity Futures Trading Commission @JKempEnergy

## Ratio of money managers' long to short positions in U.S. natural gas (NYMEX +ICE)



Source: US Commodity Futures Trading Commission @JKempEnergy