

Climate Impact Company Month 1-3 Ahead Climate Forecasts

Issued: Thursday, September 7, 2017

Highlight: October/November is warmer than normal, cold West in December

Executive summary: The U.S. climate outlooks for quarter 4 of 2017 is based on a SSTA-based analog coupled with persistence and in a limited way the NCEP CFS V2 and ECMWF (models). The forecasts are warm with the only important cold appearing in December and affecting the northwest quadrant of the U.S. High impact events include a potential late season tropical event into the Mid-Atlantic/Northeast U.S. in October, increasingly wet weather on the Northwest Coast gradually reaching northern California and the winter chill set for the Northwest to Central U.S. in December.

Population weight CDD/HDD forecasts: The 2017 warm season CDD character was a heat spike in July reversing cool for AUG and SEP. The last 2 months of the warm season are the coolest of the last 4 years. The HDD forecast is very close to the 10-year normal and similar to NOV/DEC 2014 and last year for FEB/MAR.

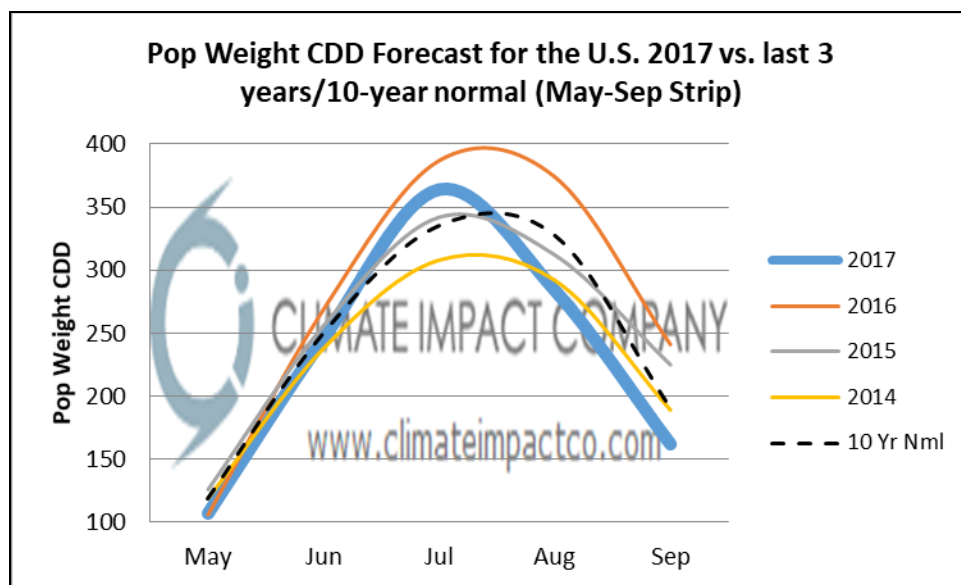


Fig. 1: The Climate Impact Company population weight CDD forecast for the U.S. during the warm season compared to the 10-year normal is indicated.

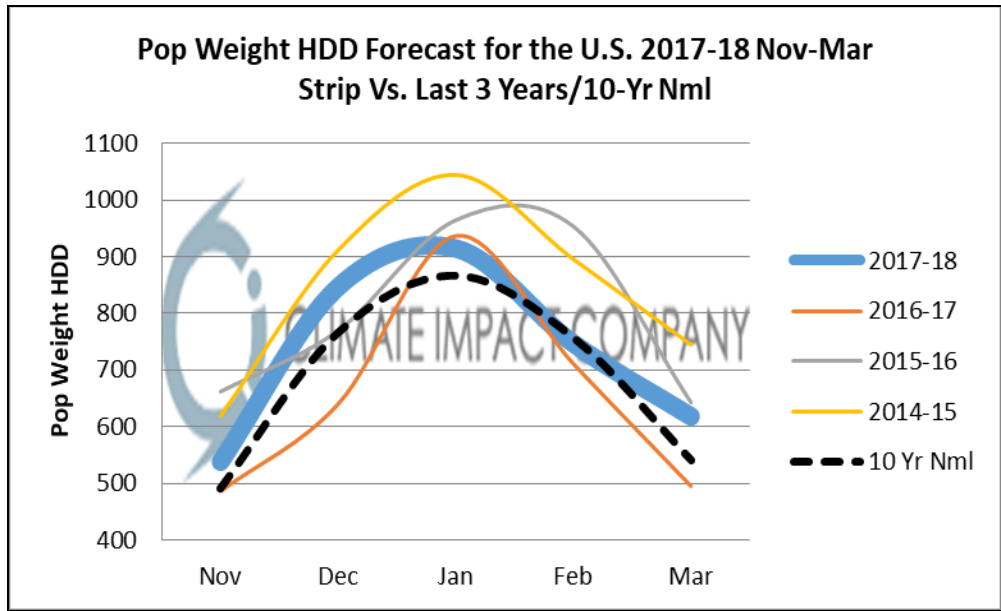
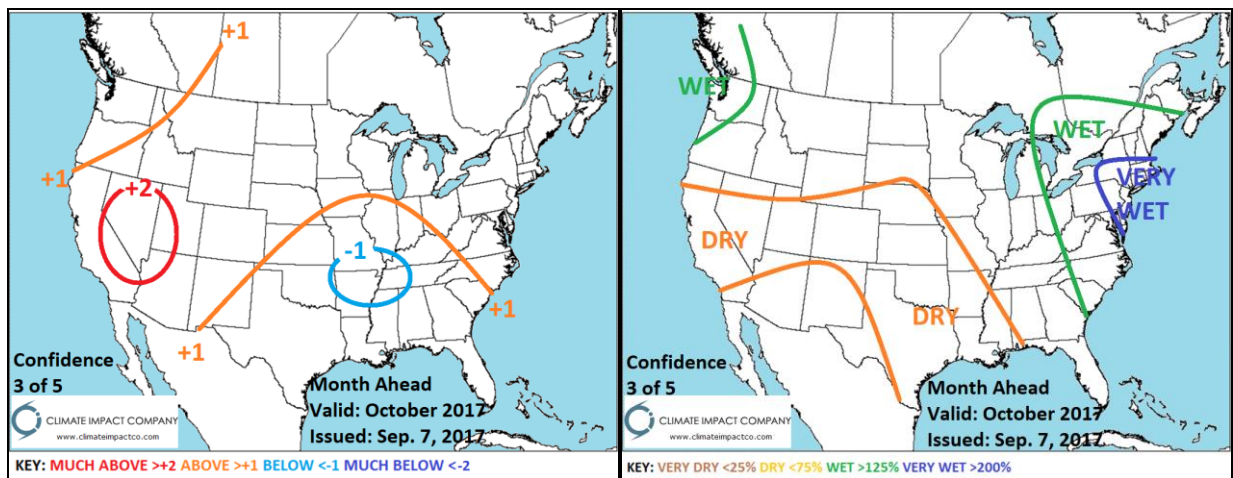


Fig. 2: The Climate Impact Company population weight HDD forecast for the U.S. during the warm season compared to the 10-year normal is indicated.

October 2017: Most striking with the October outlook is the potential excessive wet regime in the northern Mid-Atlantic suggesting a possible late season tropical event which is certainly possible given the warm North Atlantic. The warmth of both the subtropical Pacific and North Atlantic basin almost certainly leaves mid-autumn warmer than normal nationally. Strongest warm anomalies are in the Southwest U.S. and dryness persists in California and the southern Plains to Texas and Louisiana. Wet weather is forecast for the coastal Northwest. The forecast trend is warmer with increased emphasis on Northeast rainfall.



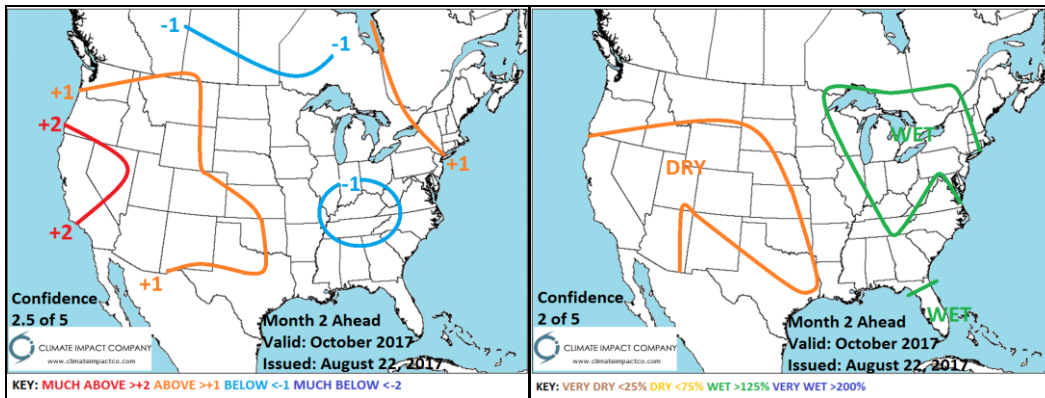


Fig. 3-6: The Climate Impact Company month ahead forecast for October 2017 temperature and precipitation anomalies. The previous forecast is below.

November 2017: Late autumn is warmer than normal across most of the U.S. primarily due to the influence of warm SSTA on the upper flow pattern. The warmest anomalies are across the Interior West while the East Coast is temperate. Wet weather is likely in the Great Lakes/Ohio Valley region which will include some snow cover. The Northwest trends wetter (including northern California).

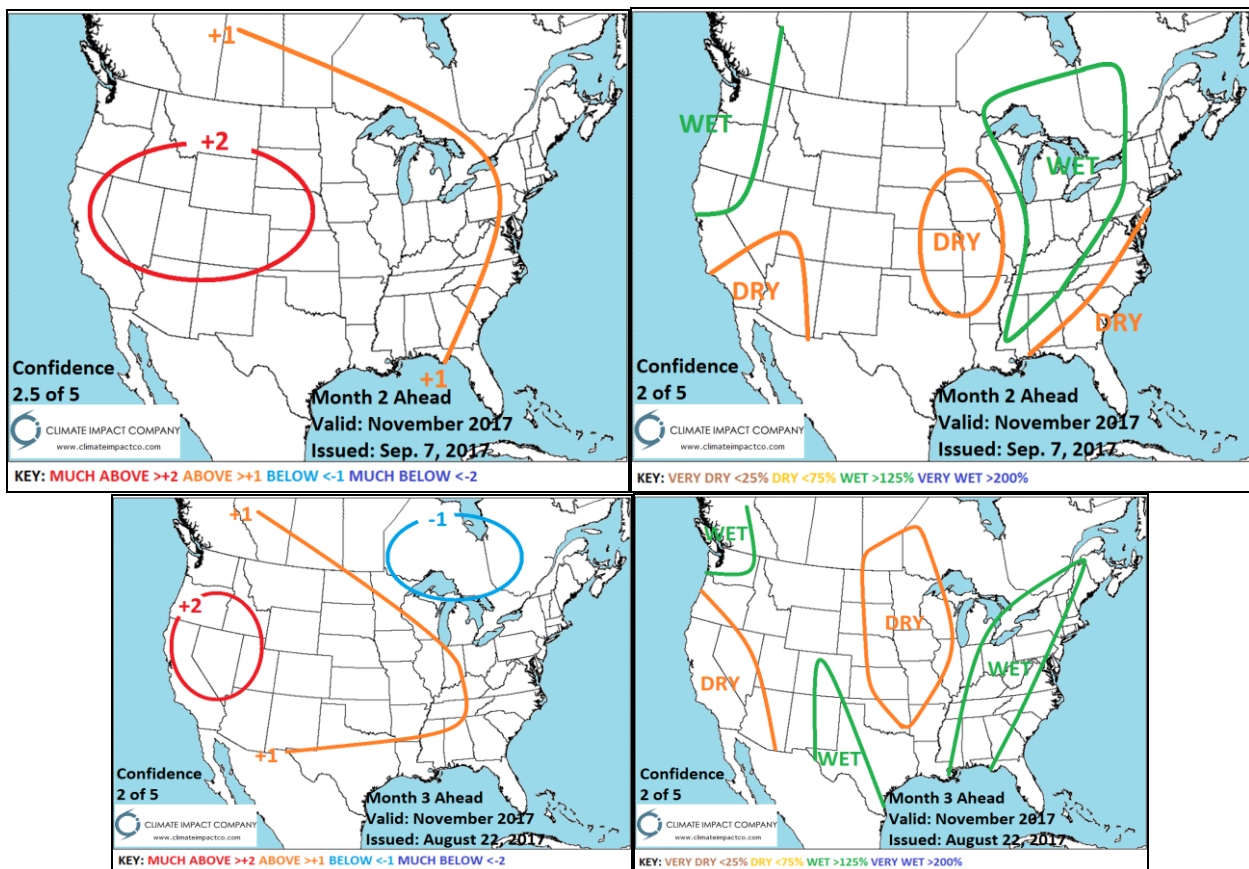


Fig. 7-10: The preliminary Climate Impact Company 2 months ahead forecast for November 2017. The previous forecast is below.

Preliminary December 2017: Meteorological winter begins with a warm influence in the East by a mean ridge position correlated to warm SSTA in the western North Atlantic. The flat PDO regime implies a zonal flow is likely in the West causing a wet pattern with (heavy) mountain snow particularly northern California. Arctic air gathers in Alaska and occasionally seeps southward into the Interior West and northwest Plains.

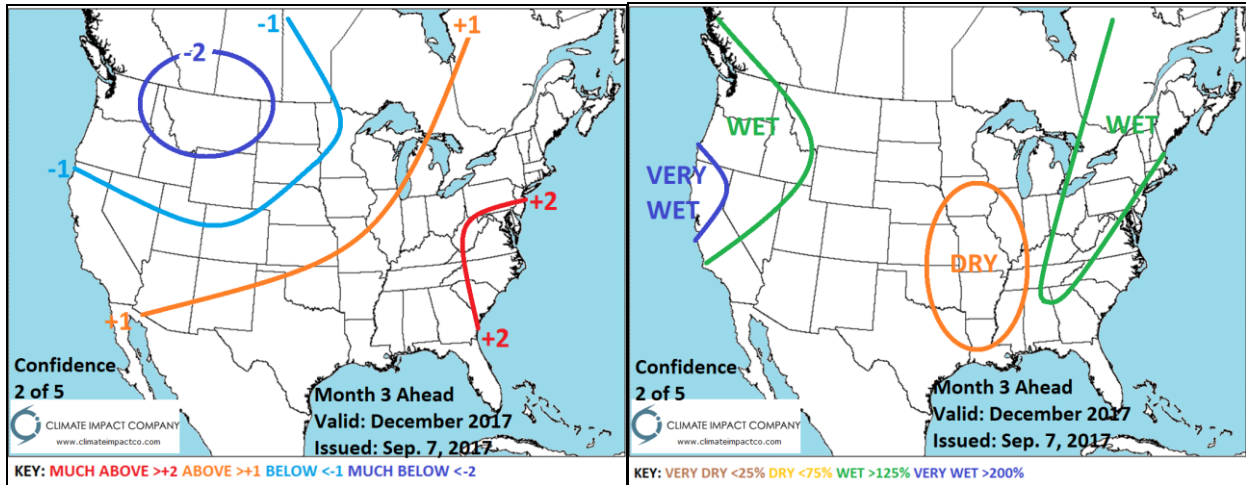


Fig. 11-12: The preliminary Climate Impact Company 3 months ahead forecast for December 2017.