

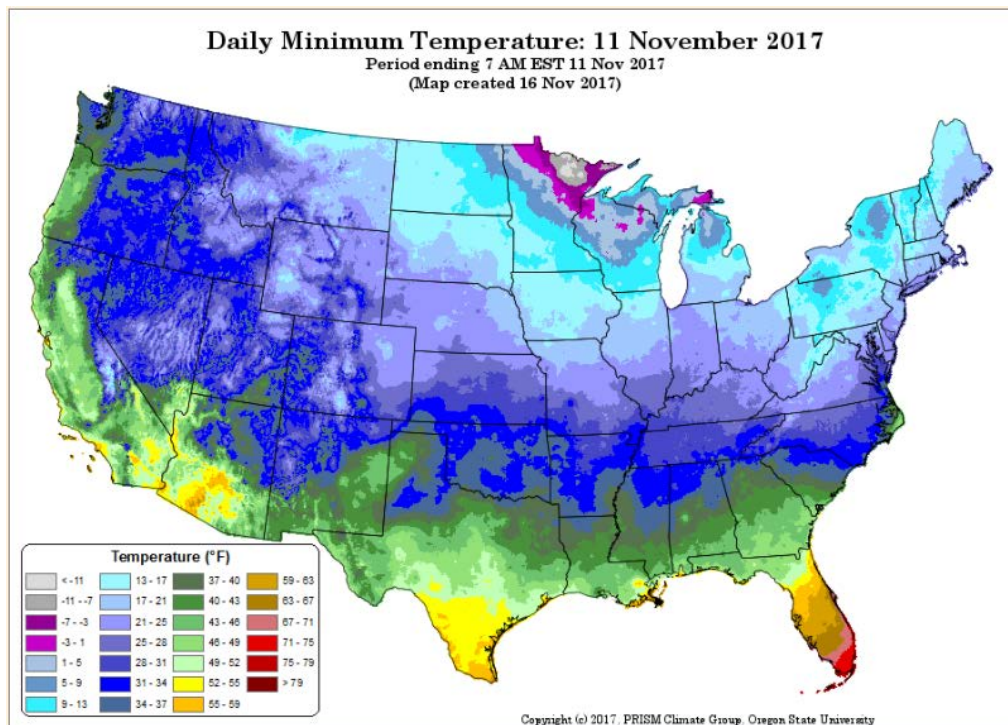
Water and Climate Update

November 16, 2017

The Natural Resources Conservation Service produces this weekly report using data and products from the [National Water and Climate Center](#) and other agencies. The report focuses on seasonal snowpack, precipitation, temperature, and drought conditions in the U.S.

Snow	2	Other Climatic and Water Supply Indicators	12
Precipitation	3	Short- and Long-Range Outlooks.....	15
Temperature.....	7	More Information	17
Drought	9		

Cold temperatures blanket the U.S.



An arctic cold front brought colder-than-normal and some record low temperatures to the Midwest, Mid-Atlantic, and Northeast last weekend. Cold temperature records were tied in Washington D.C. and Baltimore. New York City recorded a morning temperature of 24 degrees Fahrenheit, 2 degrees below the old record set in 1914.

Related:

[DC dips to a record low, first in November in four decades and one of many across the Northeast](#), Washington Post

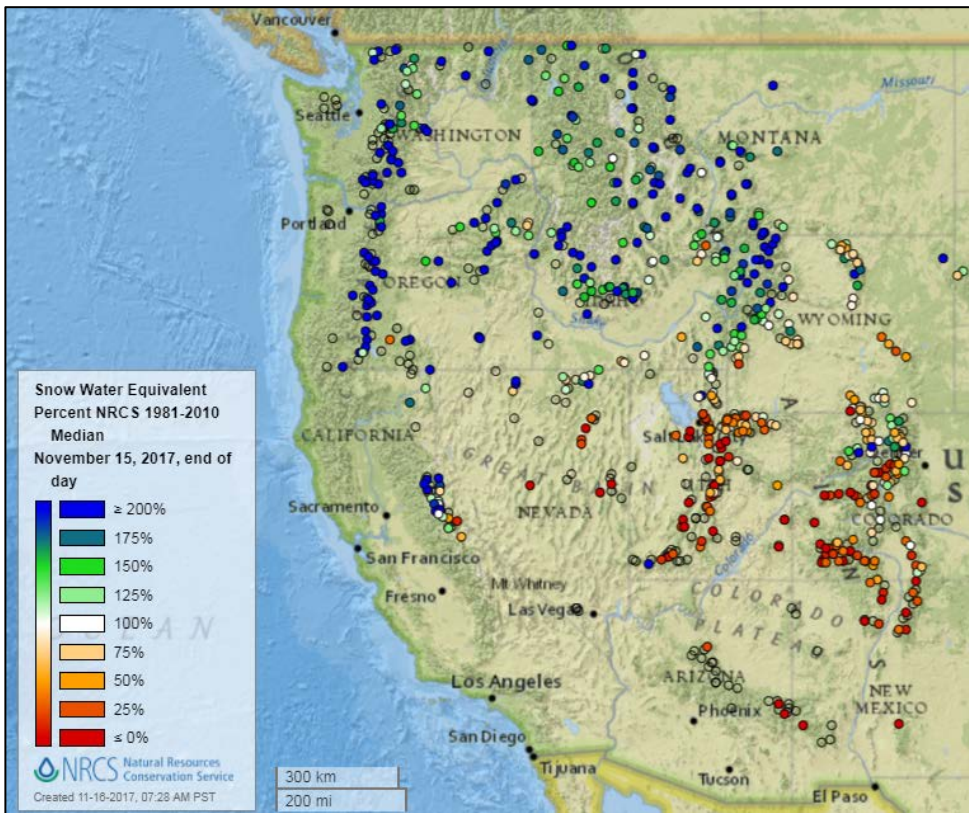
[Here comes an Arctic blast, record cold, and ... the Polar Vortex??!!](#), CNBC

[Coldest November in 20 years?](#), Minnesota Public Radio

[Arctic blast breaks record low temps in NYC](#), NY Daily News

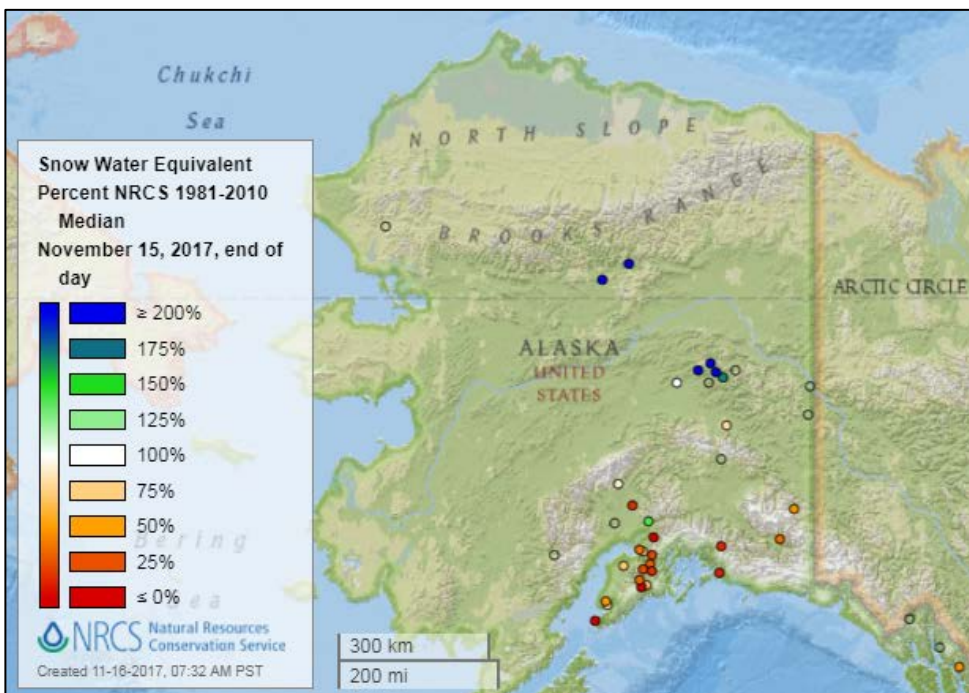
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



[Snow water equivalent percent of median map](#)

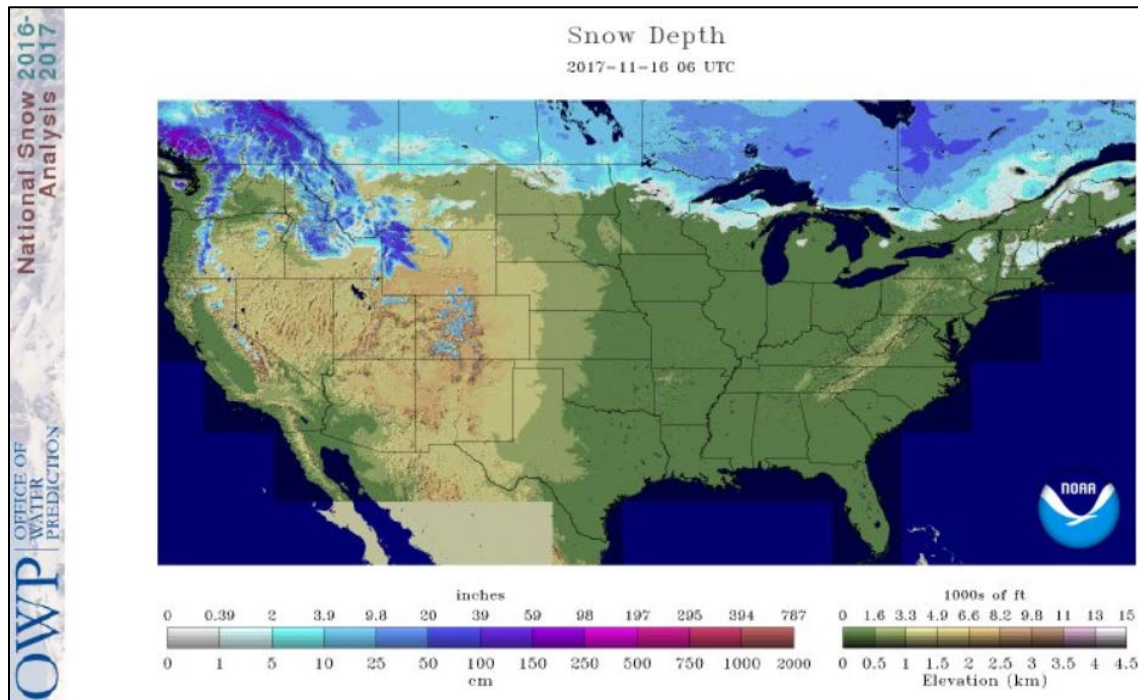
See also:
[Snow water equivalent values \(inches\) map](#)



[Alaska snow water equivalent percent of median map](#)

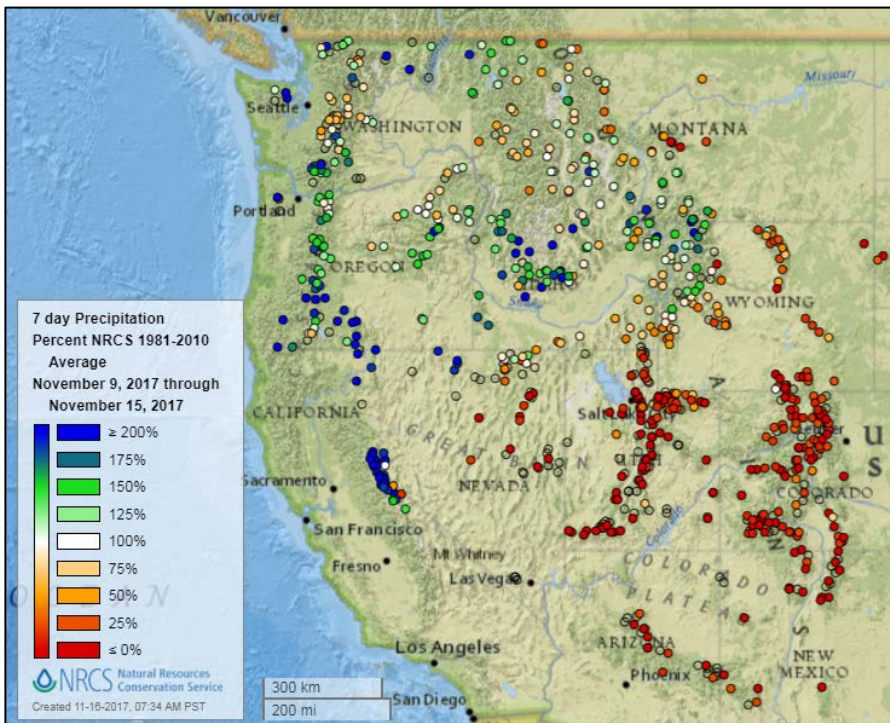
See also:
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service Snow Analysis



Precipitation

Last 7 Days, NRCS SNOTEL Network

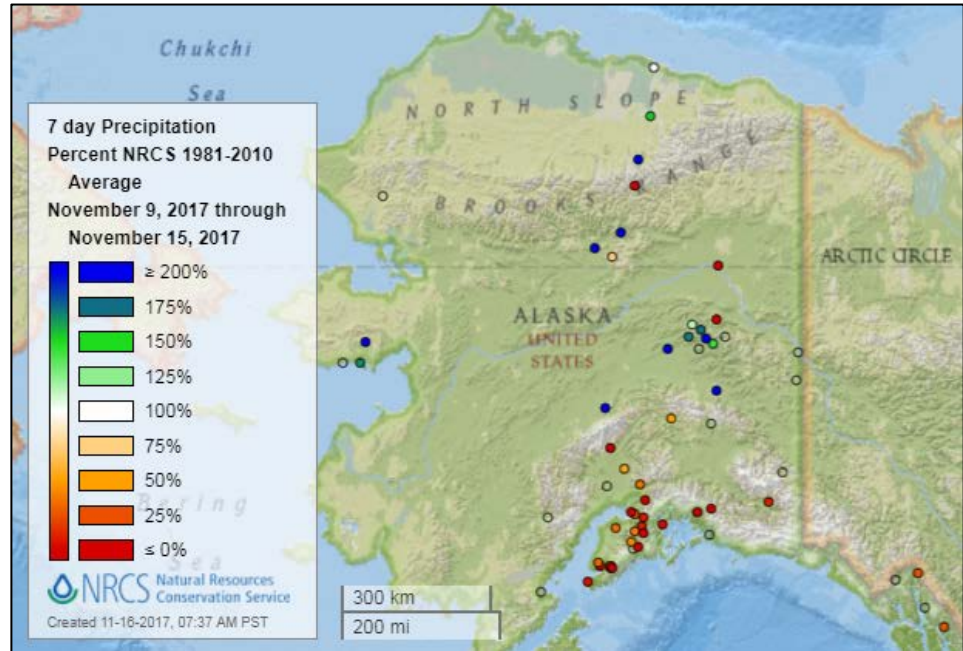


[7-day precipitation percent of average map](#)

See also:
[7-day total precipitation values \(inches\) map](#)

[Alaska 7-day precipitation percent of average map](#)

See also: [Alaska 7-day total precipitation values \(inches\) map](#)



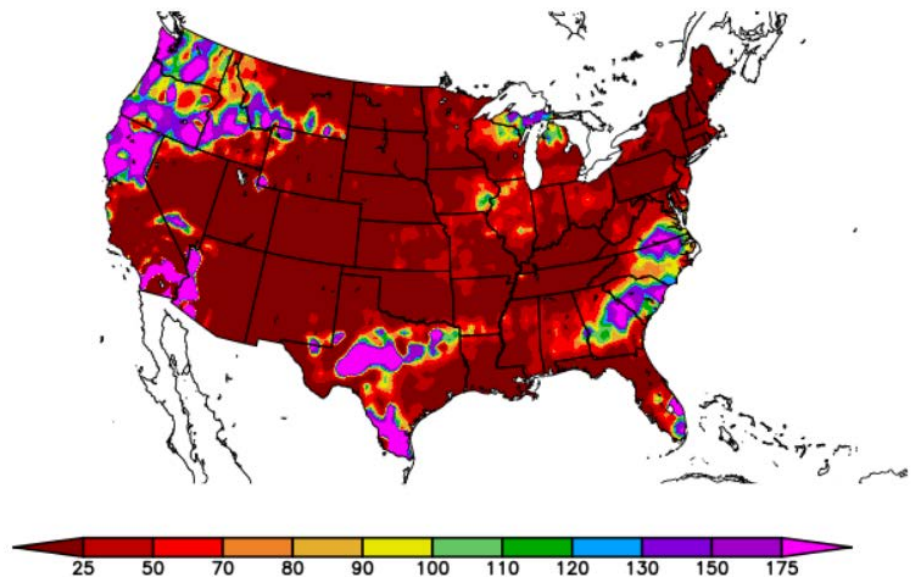
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation percent of normal map](#) for the continental U.S.

See also: [7-day total precipitation values \(inches\) map](#)

Percent of Normal Precipitation (%)
11/9/2017 – 11/15/2017



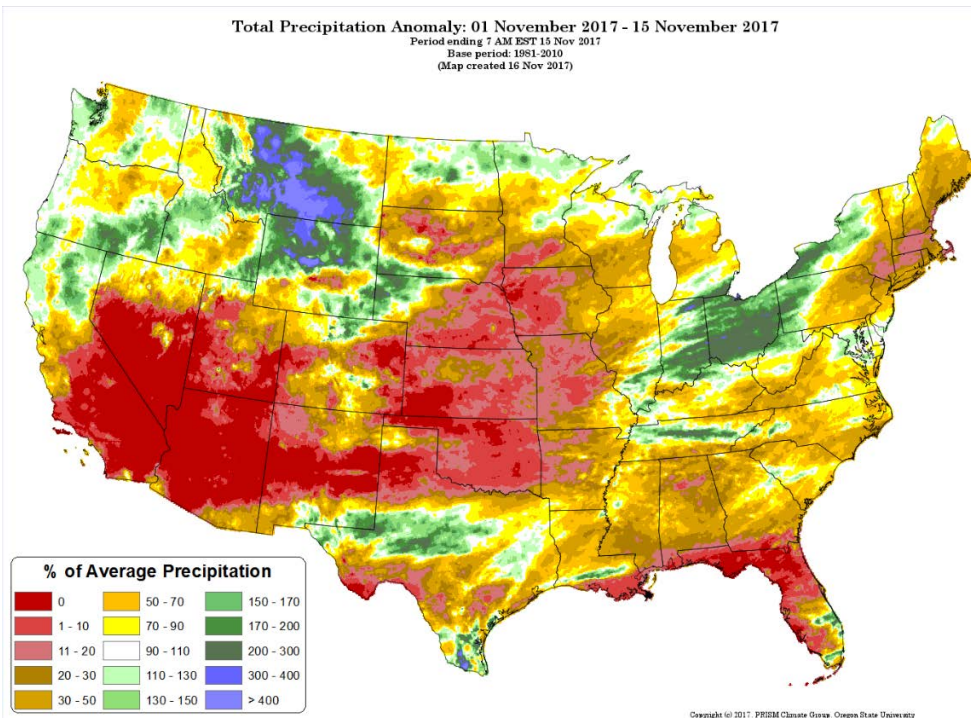
Generated 11/16/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

Water and Climate Update

Month-to-Date, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

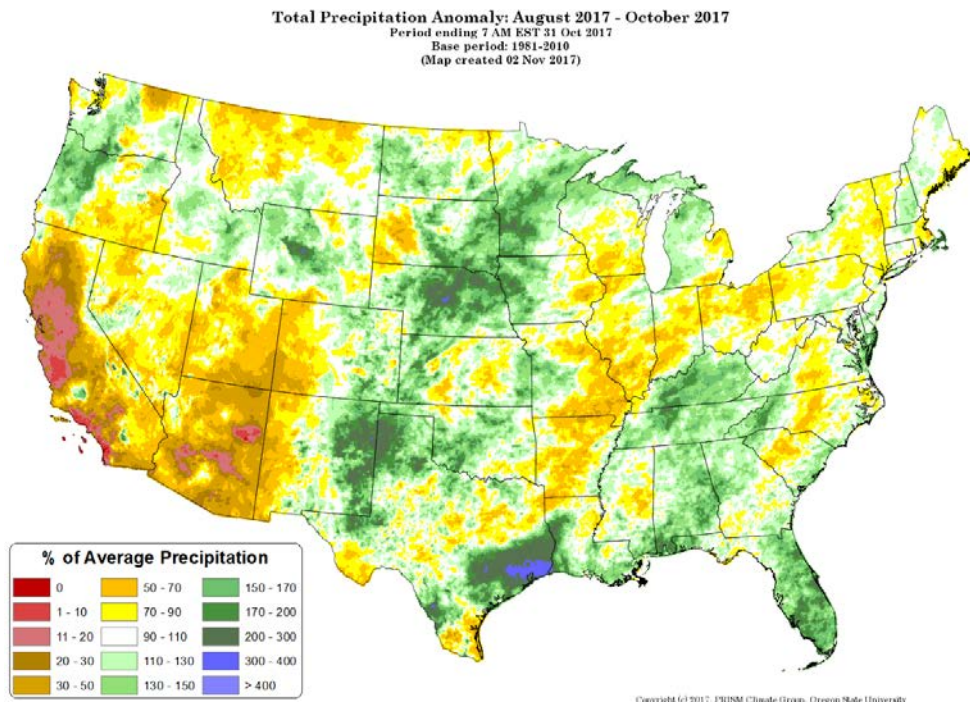


[Month-to-date national precipitation percent of average map](#)

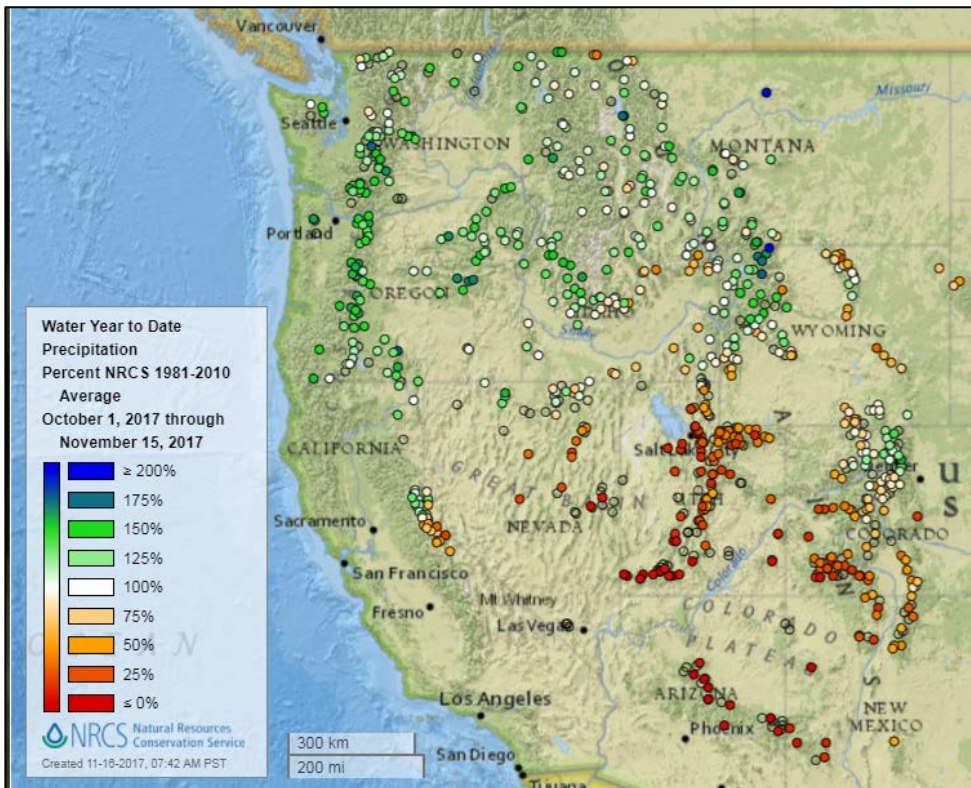
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[August through October 2017 total precipitation anomaly map](#)

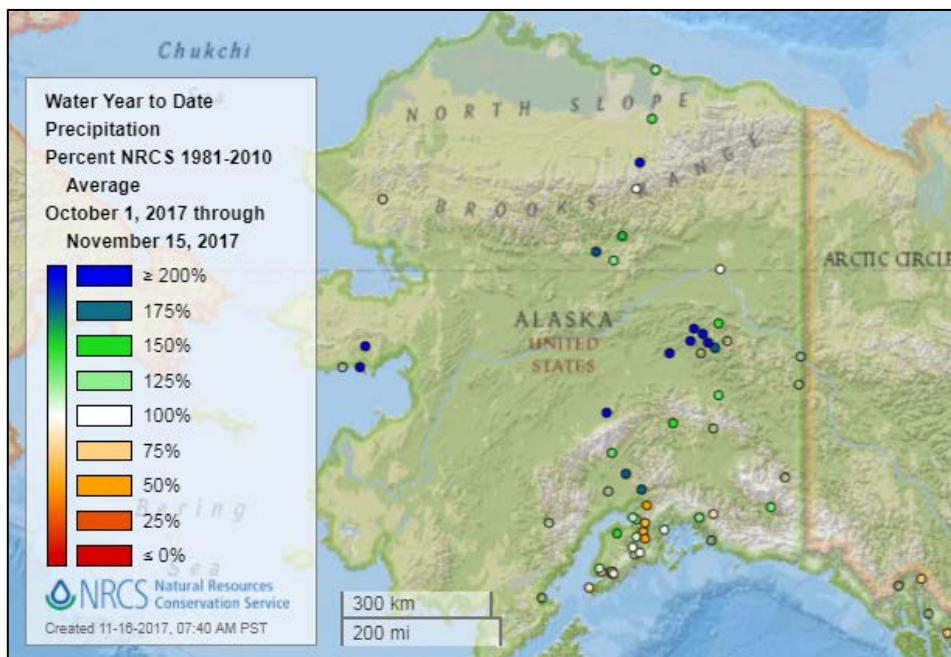


Water Year-to-Date, NRCS SNOTEL Network



[2018 water year-to-date precipitation percent of average map](#)

See also: [2018 water year-to-date precipitation values \(inches\)](#)



[Alaska 2018 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2018 water year-to-date precipitation values \(inches\) map](#)

Temperature

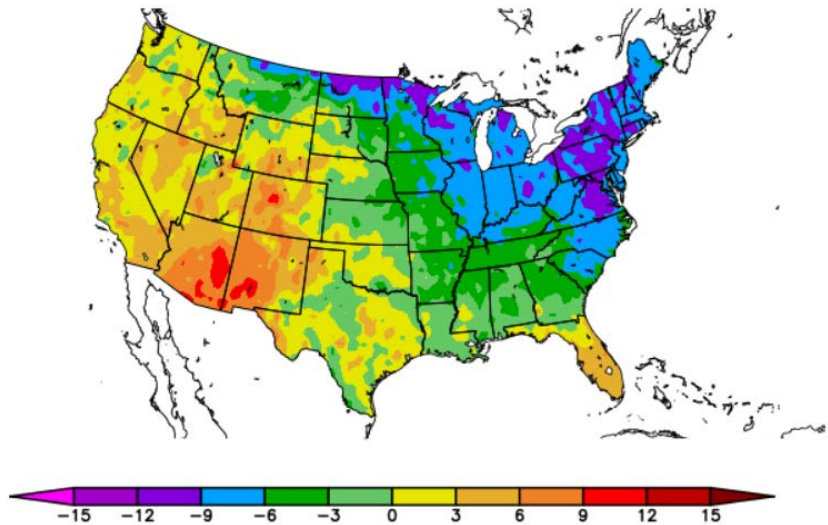
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the continental U.S.

See also: [7-day temperature \(° F\) map](#)

Departure from Normal Temperature (F)
11/9/2017 – 11/15/2017



Generated 11/16/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

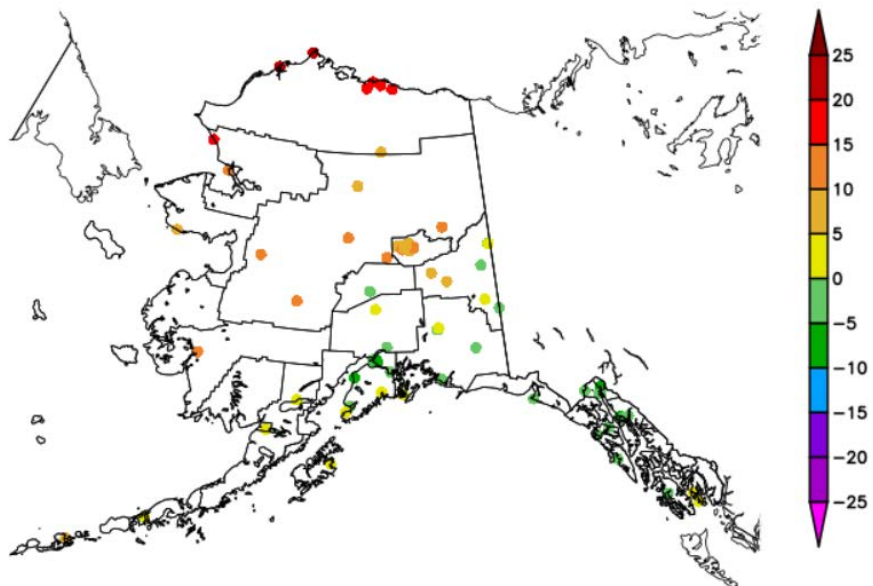
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for Alaska.

See also: [7-day temperature \(° F\) map](#)

Departure from Normal Temperature (F)
11/9/2017 – 11/15/2017



Generated 11/16/2017 at HPRCC using provisional data.

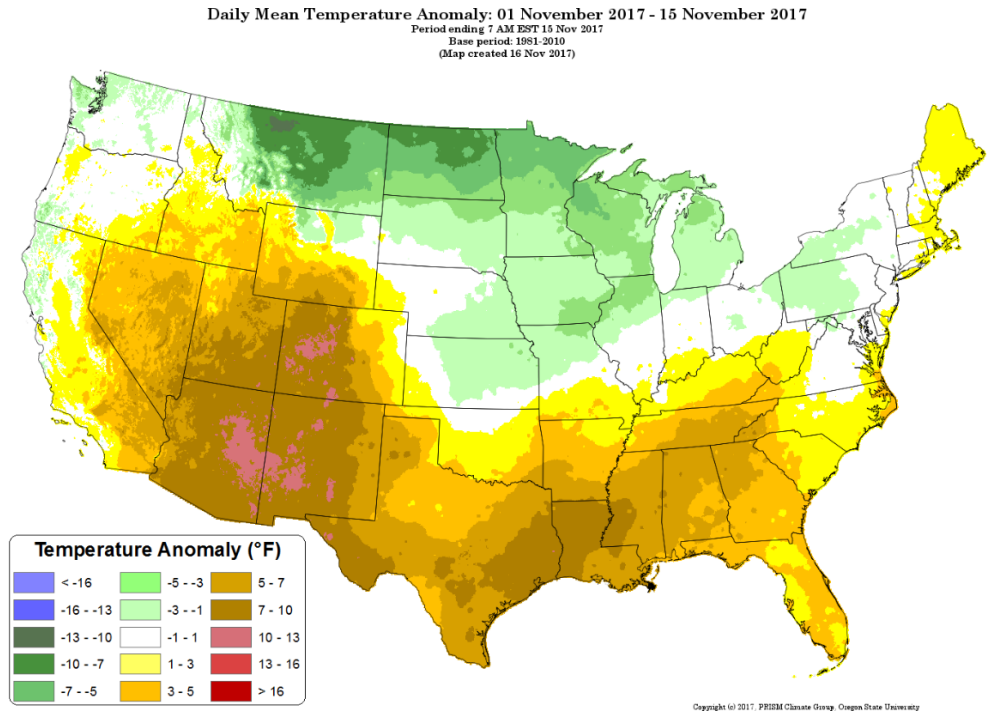
NOAA Regional Climate Centers

Water and Climate Update

Month-to-Date, All Available Data Including SNOTEL and NWS Networks

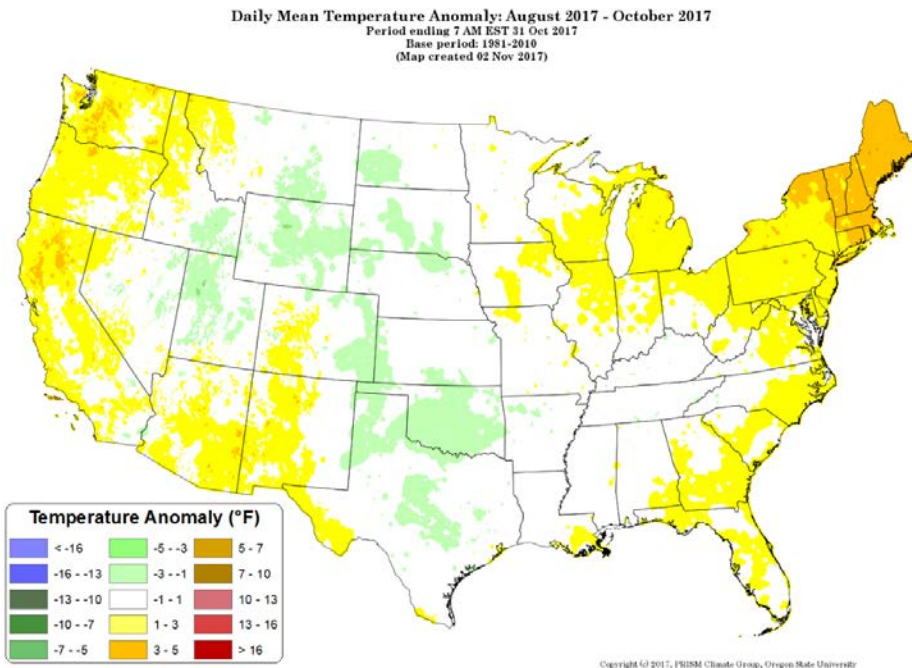
Source: PRISM

[Month-to-date
national daily mean
temperature
anomaly map](#)



Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM



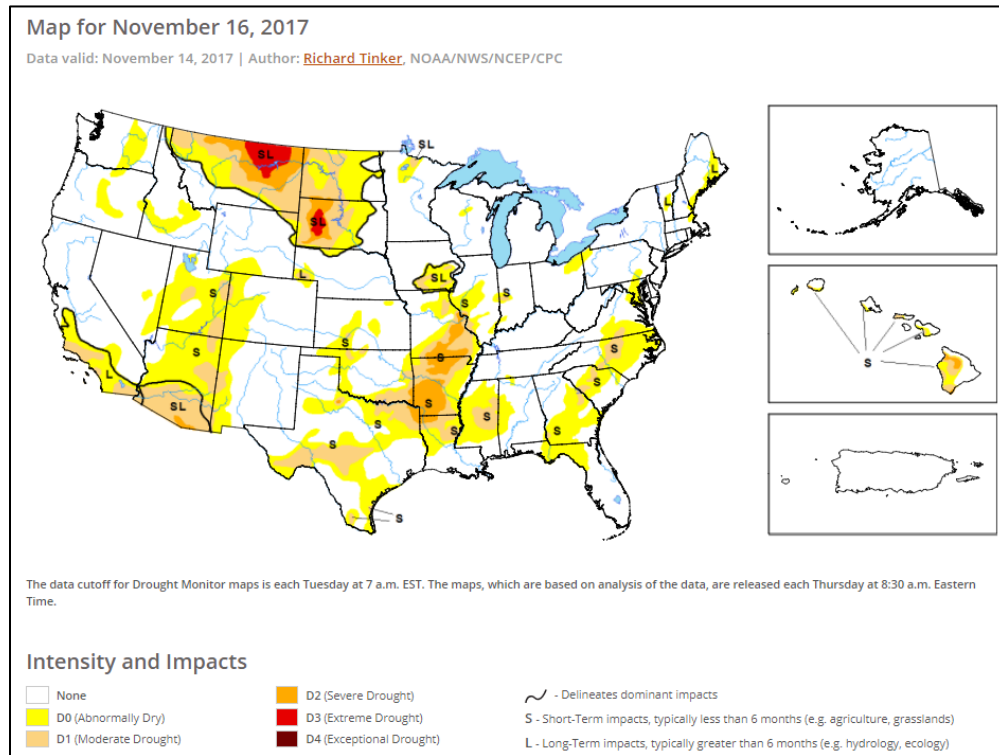
[August through October
2017 daily mean
temperature anomaly map](#)

Drought

[U.S. Drought Monitor](#) Select map below.

[U.S. Drought Portal](#) Comprehensive drought resource.

NOTE – The Drought Monitor reflects observed precipitation through Tuesday, 1200 UTC (8 am, EDT); any rain that falls after the Tuesday 1200 UTC cutoff will be reflected in next week's map.



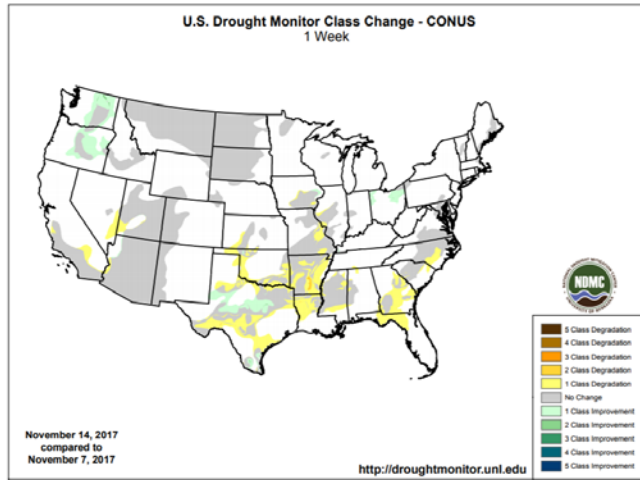
Current [National Drought Summary](#), November 14, 2017

Author: Richard Tinker, NOAA/NWS/NCEP/CPC

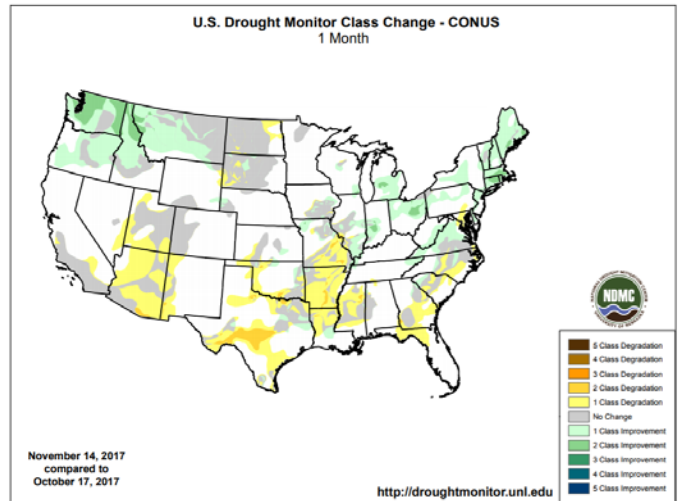
"It was a dry week for the Nation as a whole. Widespread heavy precipitation was restricted to the central and northern West Coast from the Cascades and northern Sierra Nevada westward. A few patches near the coast recorded 6 to 12 inches of precipitation. Across the remainder of the contiguous states, only a few small areas reported over 1.5 inches, with most locations observing little or none. As a result, short-term dryness continued to develop and expand across the south-central and southeastern U.S. as 30- to 90-day precipitation deficits continued to steadily increase, overcoming the wet weather that had squelched dryness impacts in much of these regions several months ago."

Changes in Drought Monitor Categories over Time

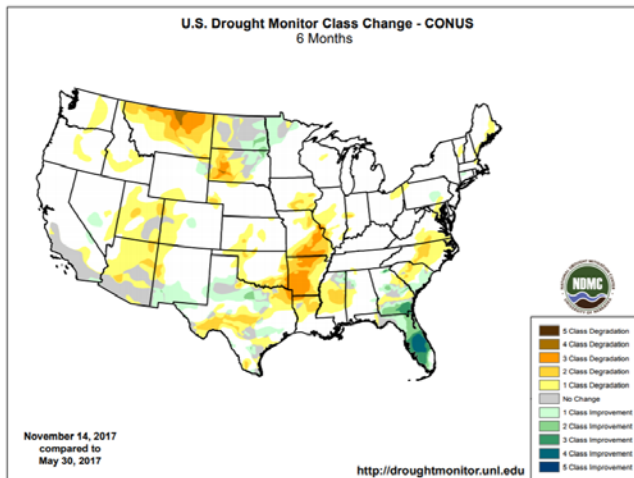
1 Week



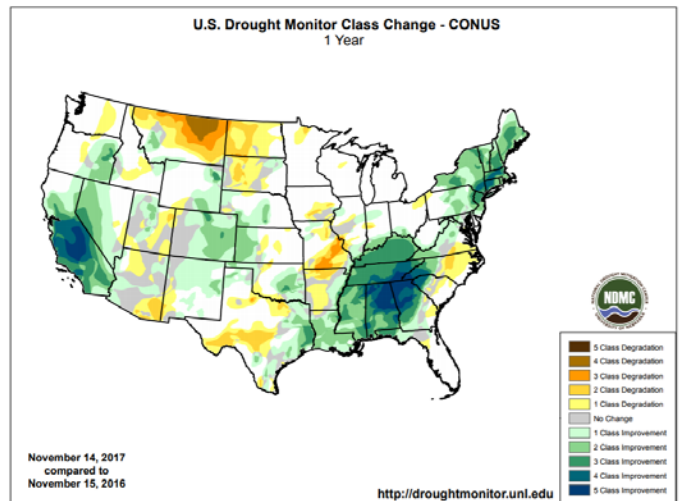
1 Month



6 Months



1 Year

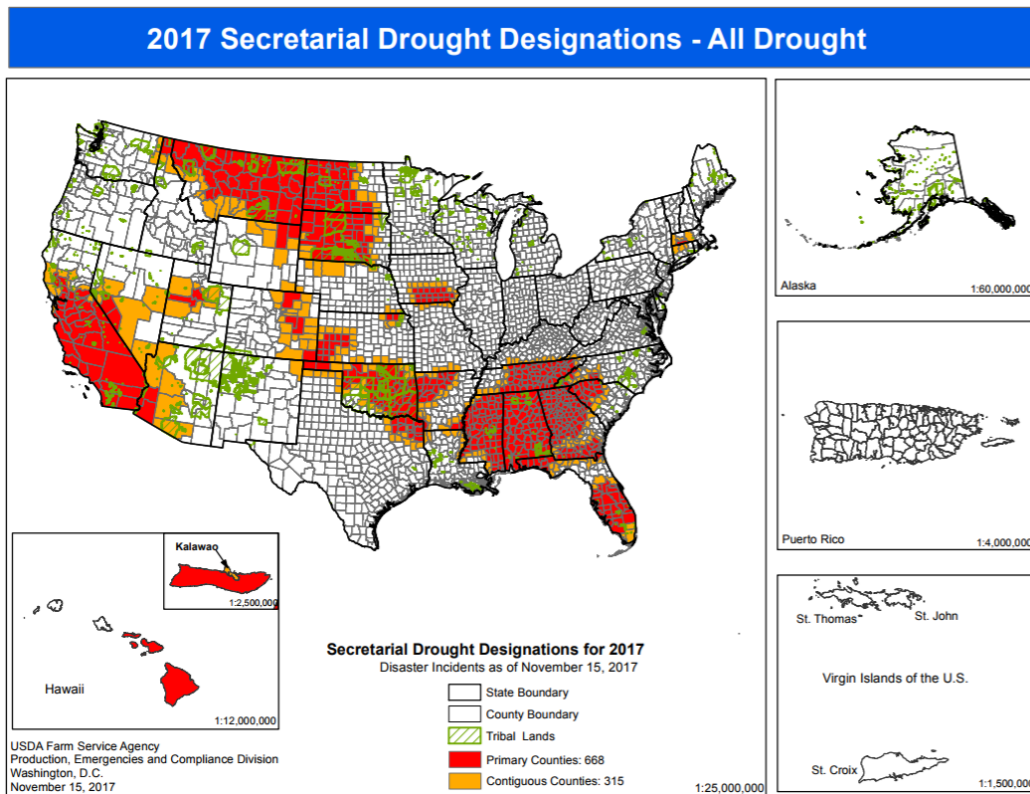


Changes in drought conditions over the last 12 months

Highlighted Drought Resources

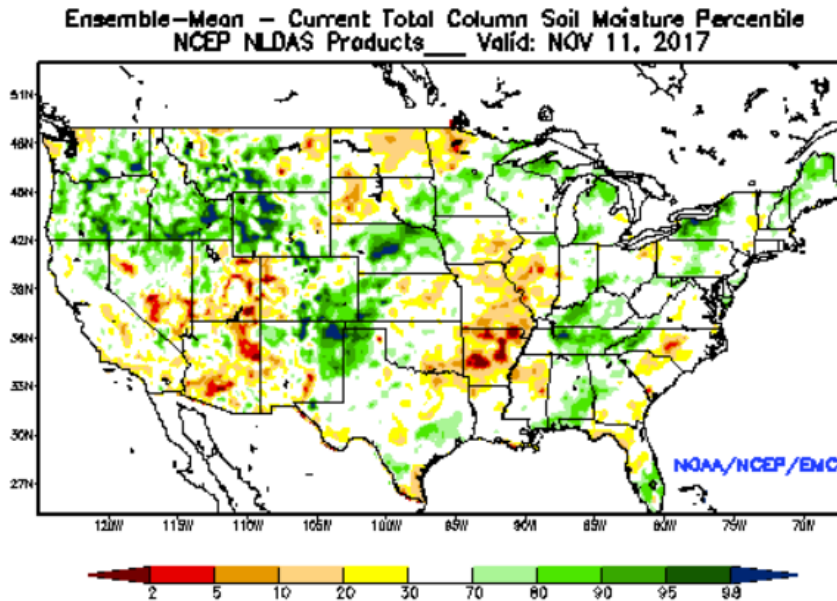
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

USDA 2017 Secretarial Drought Designations



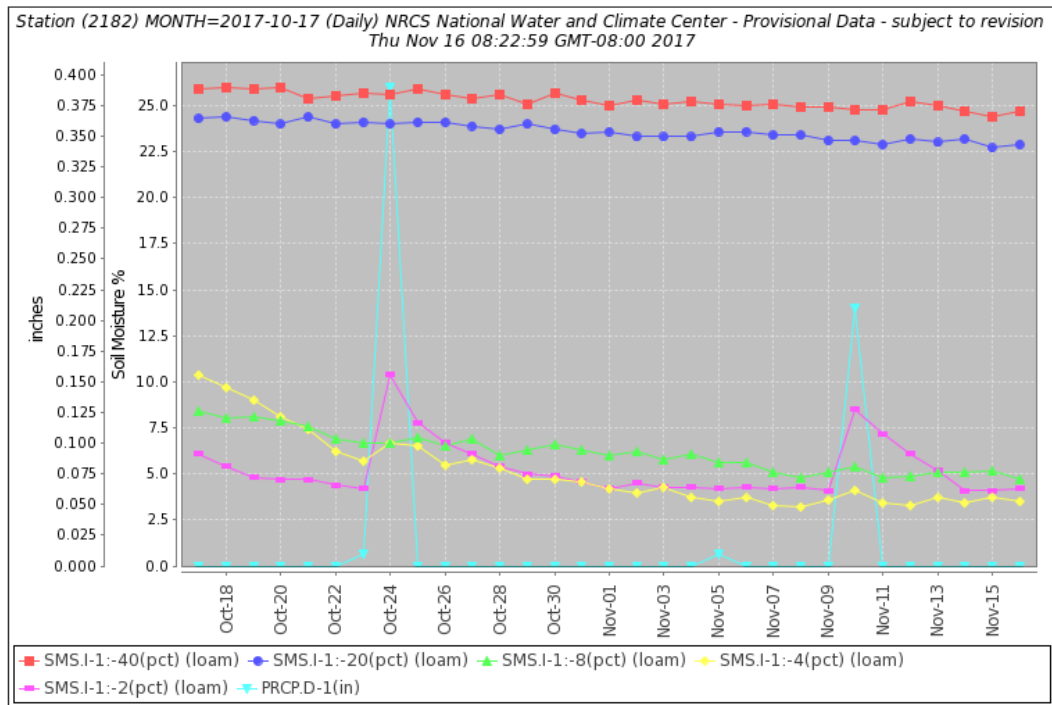
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of November 11, 2017.

Soil Moisture Data: NRCS [Soil Climate Analysis Network \(SCAN\)](#)



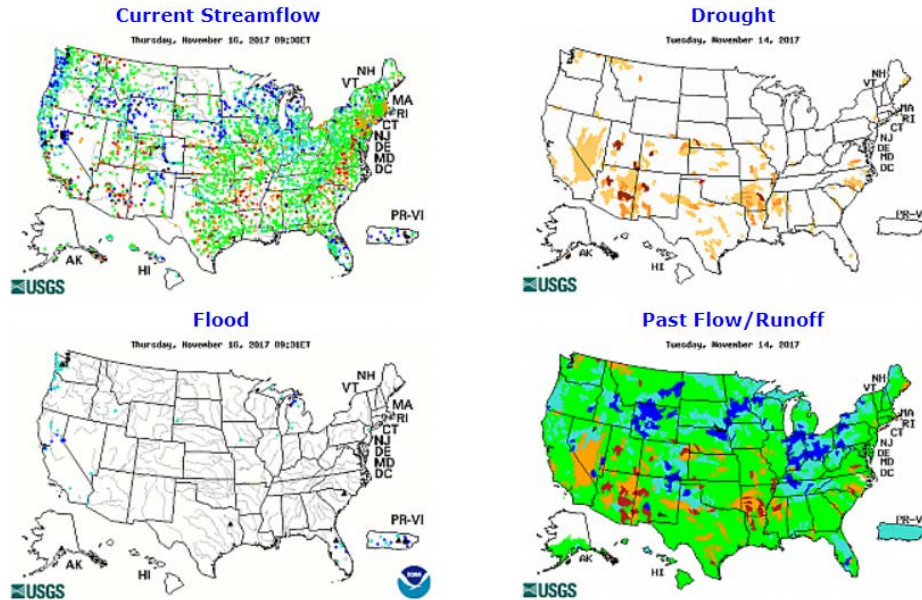
The chart shows precipitation and soil moisture for the last 30 days at the [River Road Farms SCAN site 2182](#) in Alabama. Precipitation on October 24 and November 10 caused an increase in soil moisture at the 2- and 4-inch sensors but was insufficient to penetrate more deeply.

Soil Moisture Data Portals

- [CRN Soil Moisture](#)
- [Texas A&M University North American Soil Moisture Database](#)
- [University of Washington Experimental Modeled Soil Moisture](#)

Streamflow

Source: USGS

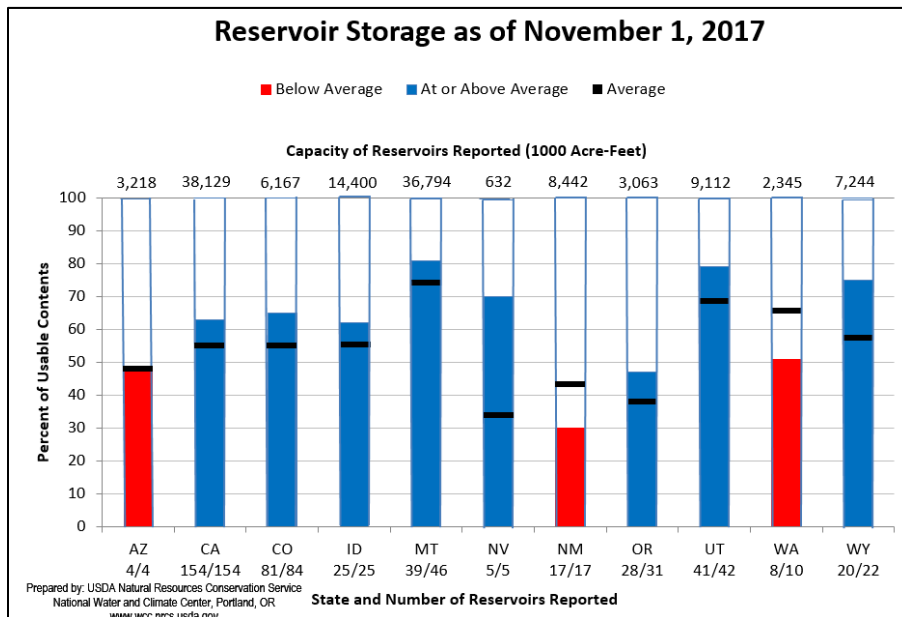


[WaterWatch: Streamflow, drought, flood, and runoff conditions](#)

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



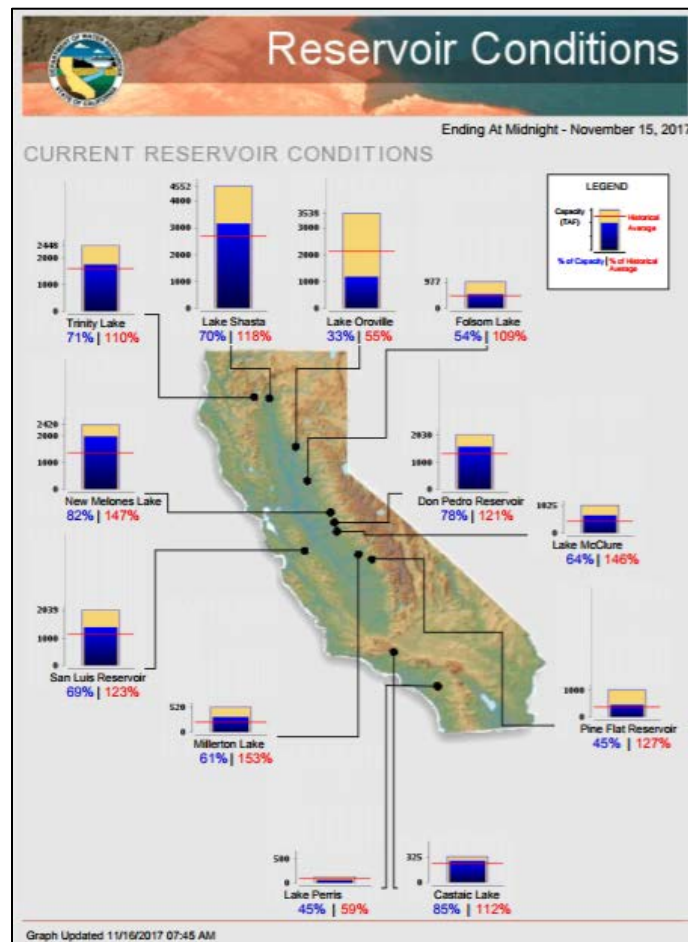
November 1 Reservoir Storage: [Chart](#) | [Dataset](#)

U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions

- [Upper Colorado](#)
- [Pacific Northwest/Snake/Columbia](#)
- [Sevier River Water, Utah](#)
- [Upper Missouri, Kansas, Oklahoma, Texas](#)

Current California Reservoir Conditions

Source: California Department of Water Resources



[California Current Reservoir Conditions](#)

Short- and Long-Range Outlooks

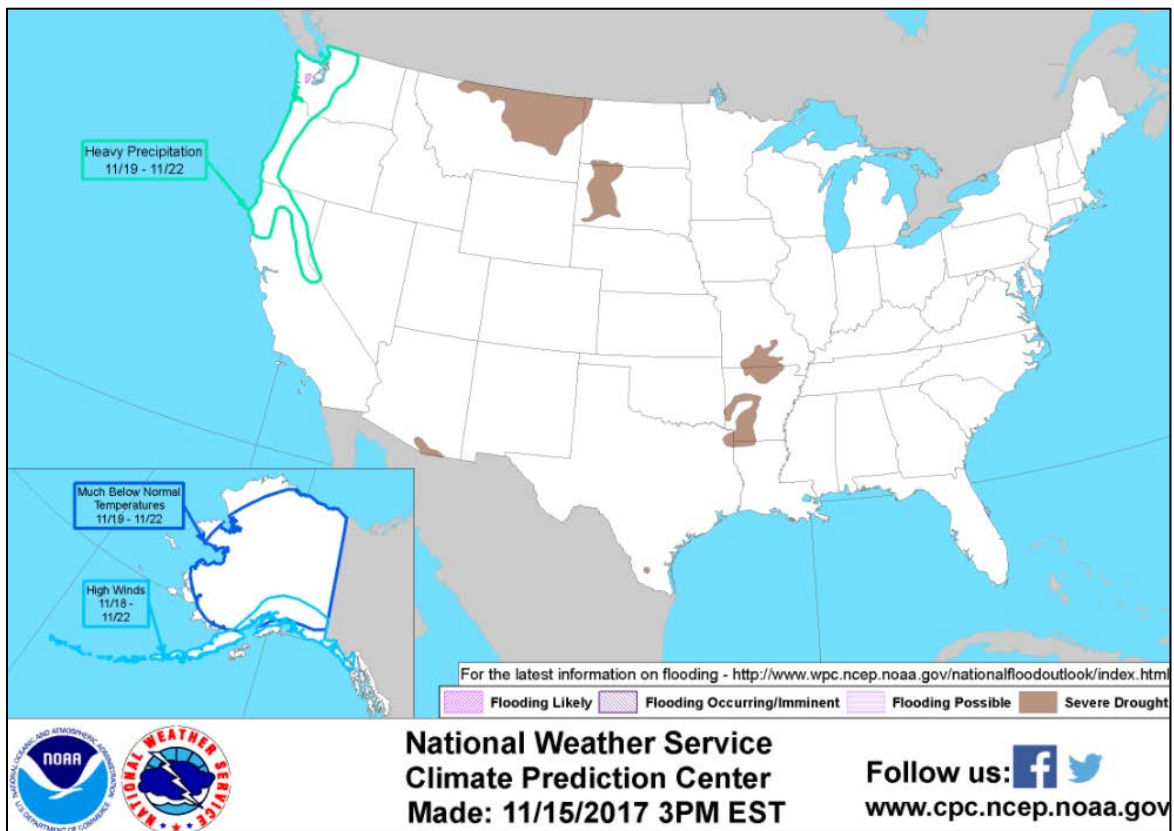
Agricultural Weather Highlights

Author: Brad Rippey, Agricultural Meteorologist, USDA/OCE/WAOB

[National Outlook, Thursday, November 16, 2017](#): “Heavy precipitation in northern California and the Northwest will taper to rain and snow showers on Friday. Meanwhile, precipitation across the Northeast will end later today. However, rain showers will return to the Great Lakes States on Friday and quickly spread across the eastern U.S. on Saturday. Later in the weekend and early next week, stormy weather will return to northern California and the Northwest, boosting 5-day precipitation totals to 2 to 6 inches in the Sierra Nevada and from the Cascades westward. In contrast, mostly dry weather will persist across the Plains and Southwest. Elsewhere, fast-moving cold fronts crossing the Midwest and East will result in breezy conditions and periods of cold weather. The NWS 6- to 10-day outlook for November 21 – 25 calls for the likelihood of below-normal temperatures in much of the eastern U.S., while warmer-than-normal weather will stretch from the Pacific Coast to the Plains. Meanwhile, near- to below-normal precipitation across most of the country will contrast with wetter-than-normal conditions across Florida’s peninsula and the Northwest.”

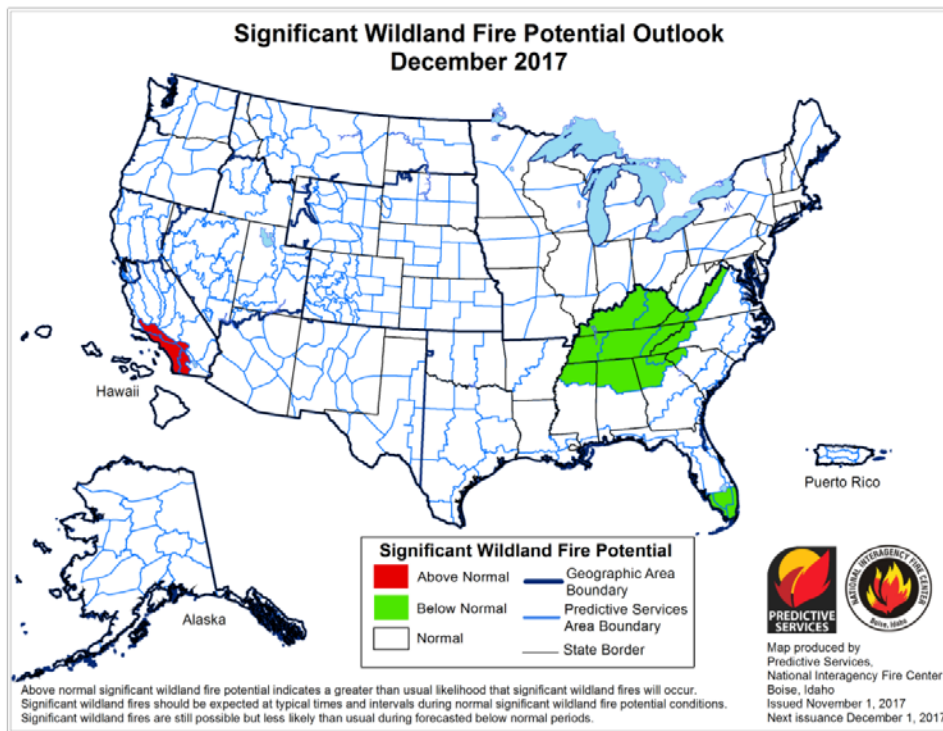
Weather Hazard Outlook [November 18 – 22, 2017](#)

Source: Climate Prediction Center

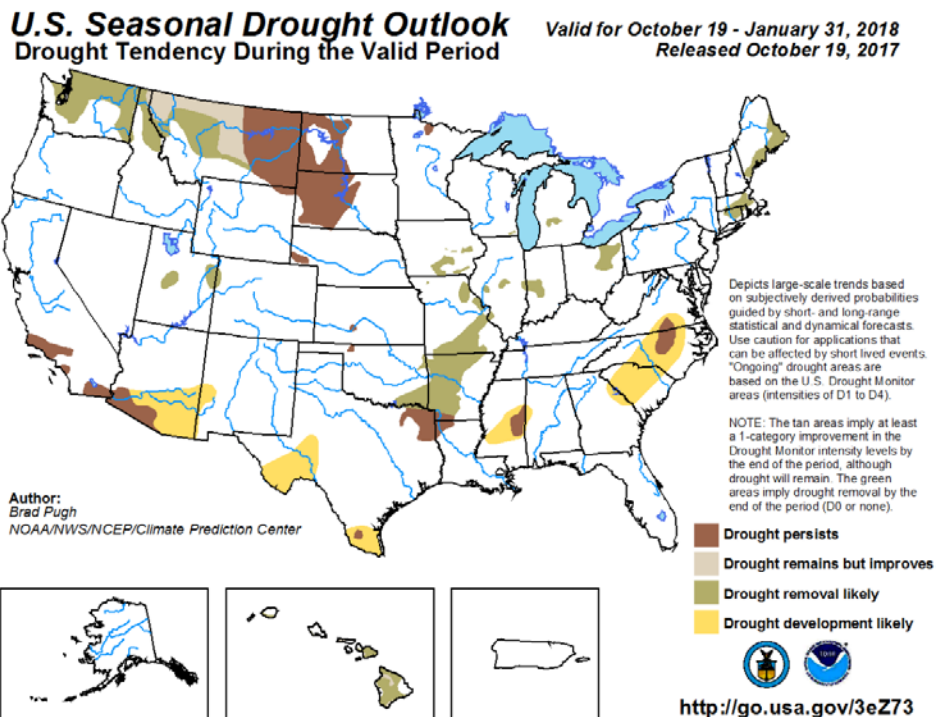


Significant Wildland [Fire Potential Outlook](#)

Source: National Interagency Fire Center



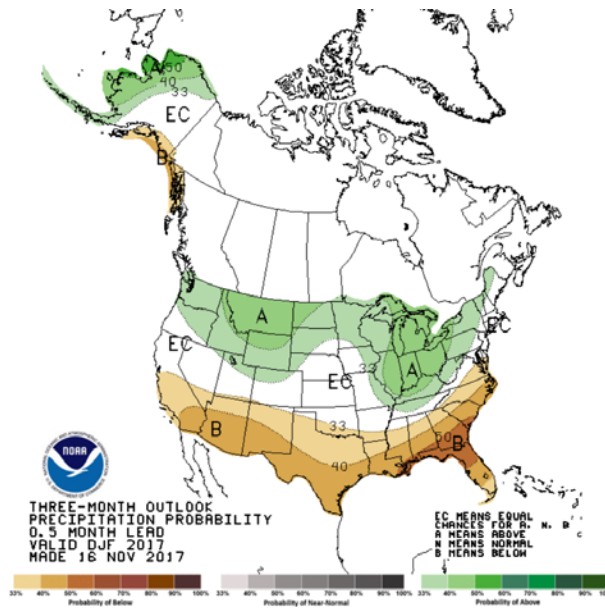
Seasonal Drought Outlook: [October 19, 2017 - January 31, 2018](#) Source: National Weather Service



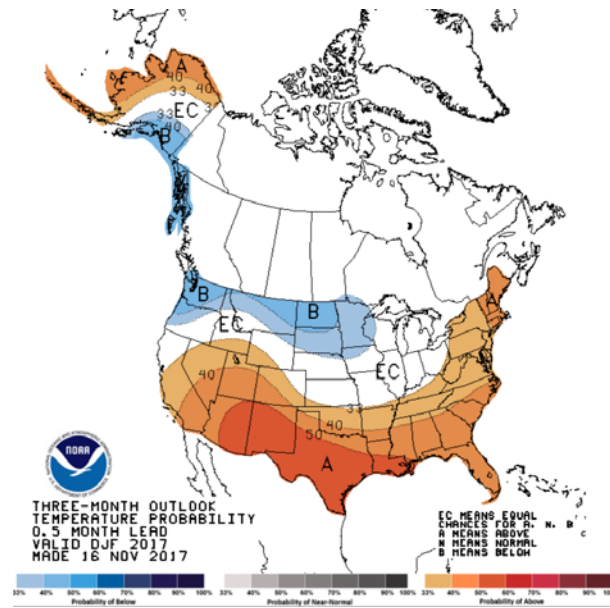
Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)



[Temperature](#)



[Dec-Jan-Feb \(DJF\) 2017-2018 precipitation and temperature outlook summaries](#)

More Information

The NRCS [National Water and Climate Center](#) publishes this weekly report. We welcome your feedback. If you have questions or comments, please [contact us](#).