



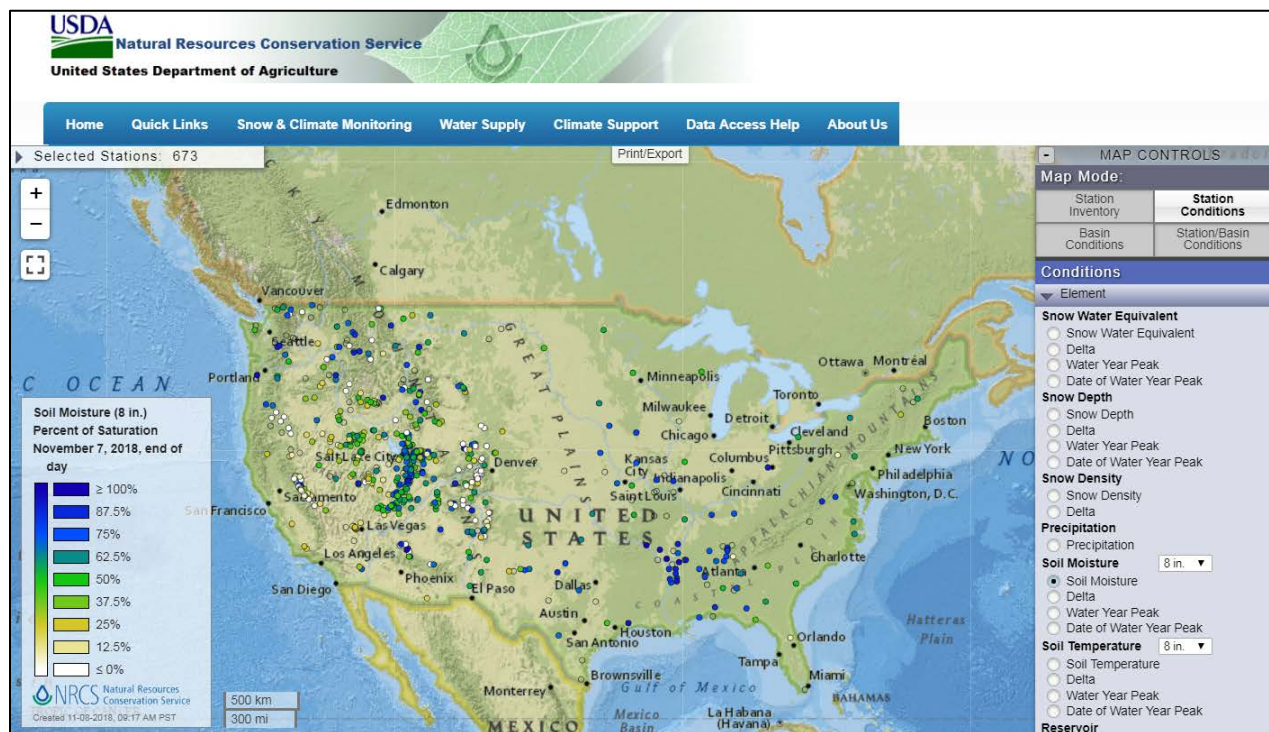
Water and Climate Update

November 8, 2018

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.

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New features on NWCC Interactive Map

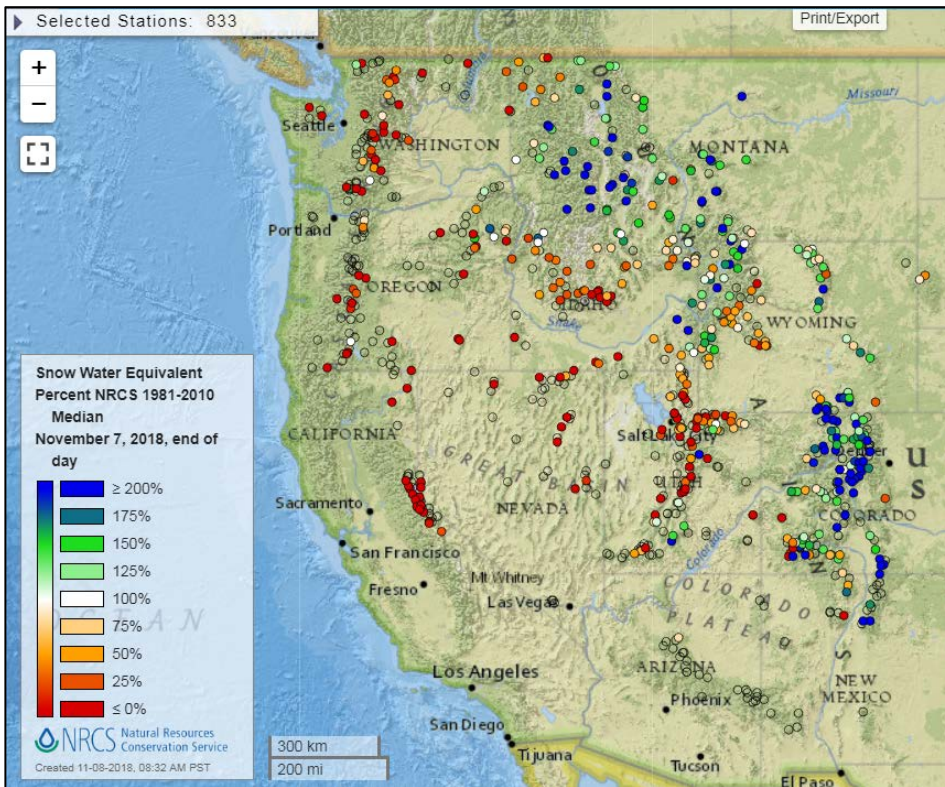


Release 5.0 of the [Interactive Map](#) is now available on the National Water and Climate Center (NWCC) website. The map supports expanded features including the addition of **soil moisture and soil temperature elements**, water supply forecast verification information, and a print/export capability. Soil moisture at SNOTEL and SCAN sites can be displayed in numerous parameter configurations at various sensor depths, including as a percent of historic saturation, shown in the map above at the 8-inch depth. **Water supply forecast verification** features statistical probabilities of forecasted streamflow with comparisons to the natural streamflow. The **print/export capability** allows for a presentation-quality output file. Other supplemental controls provide user-configurable adjustments to basin opacity, color settings, and highlights of state and/or watershed boundaries. The map can help users analyze spatial data trends by county, state, and/or hydrologic basin. All new features are listed [here](#).

Note: This new map release is available on the Beta version of the NWCC website. You may notice a new look for the website, and some features are still under construction.

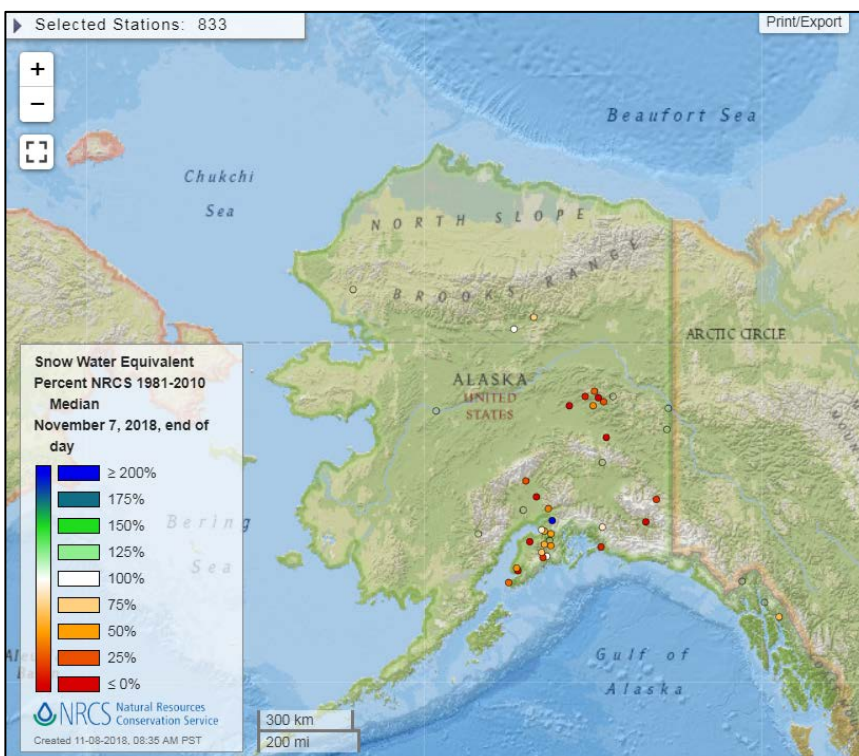
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



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

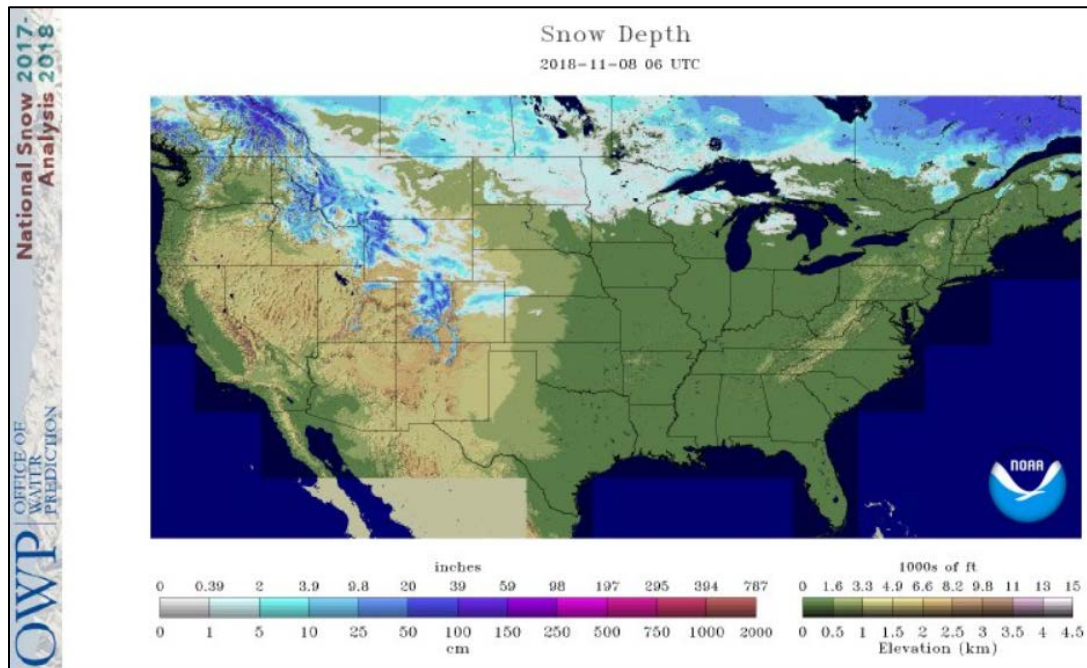
See also:
[Snow water equivalent values \(inches\) map](#)



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

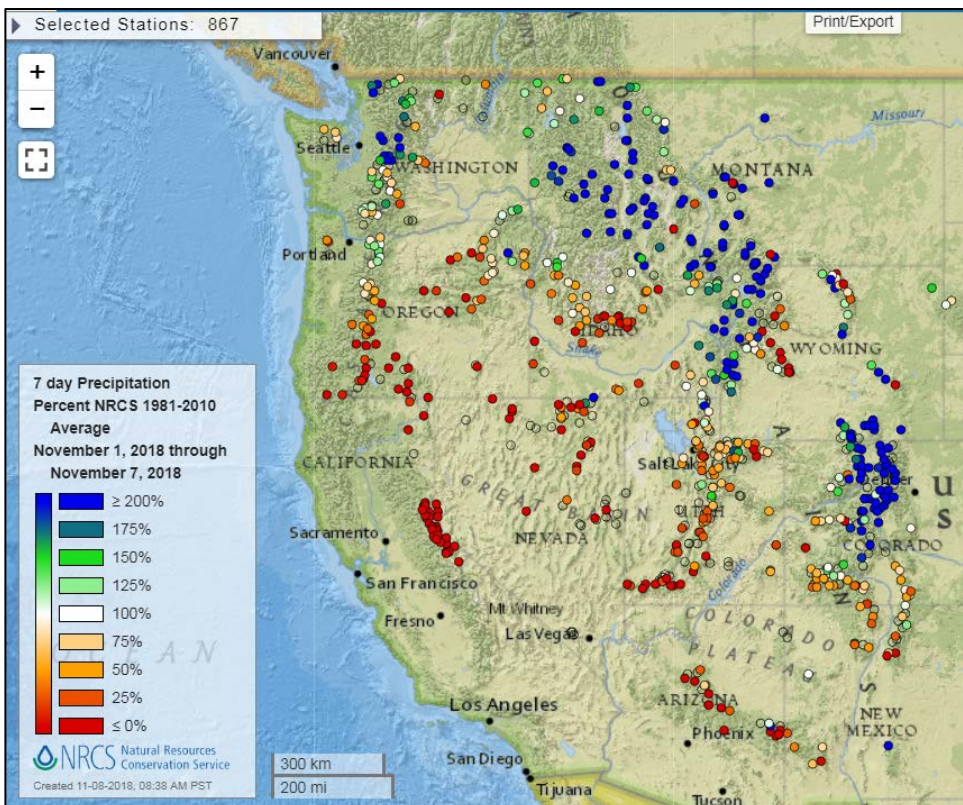
See also:
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service Snow Analysis



Precipitation

Last 7 Days, NRCS SNOTEL Network



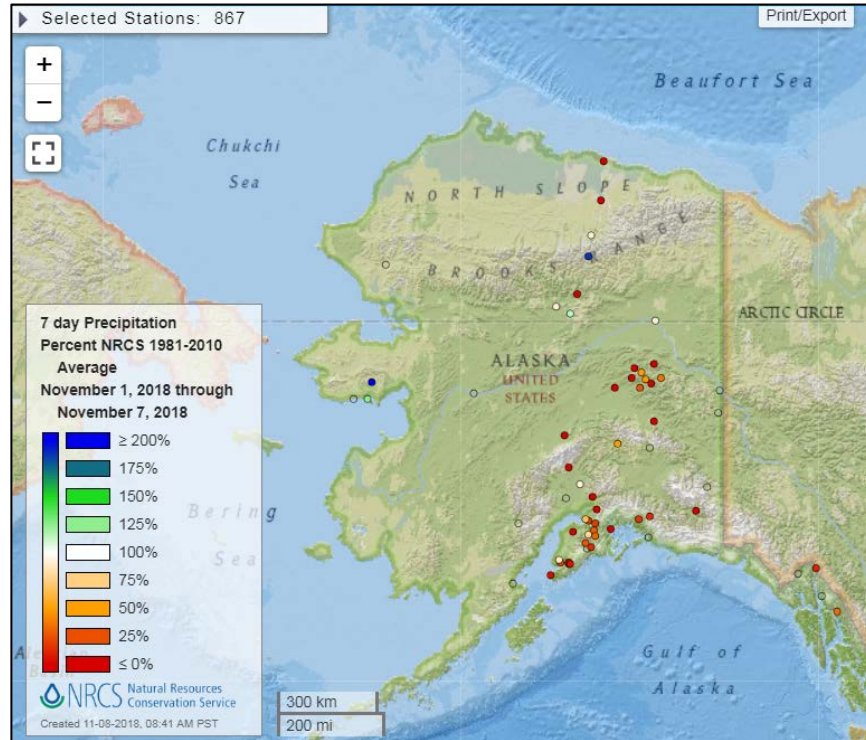
[7-day precipitation percent of average map](#)

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

Water and Climate Update

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

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



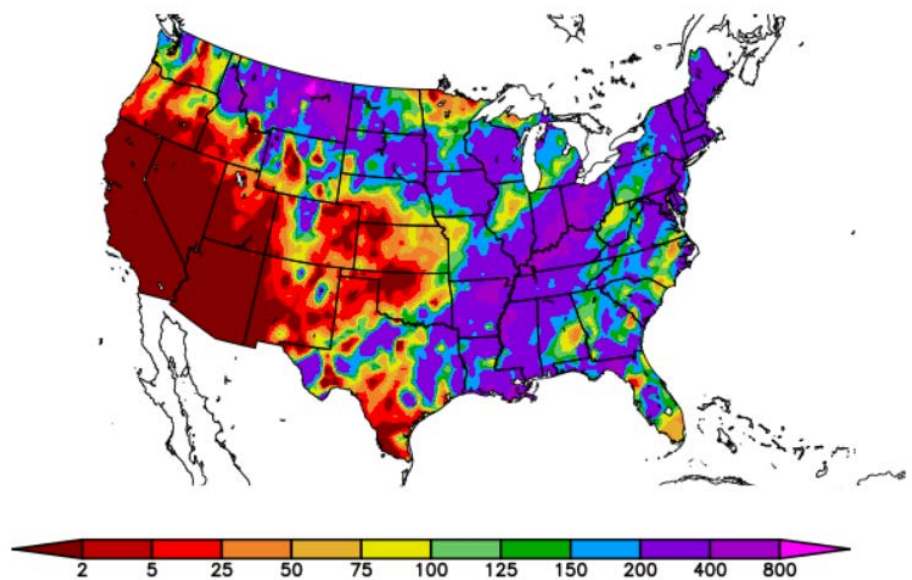
Last 7 Days, National Weather Service (NWS) Networks

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 (%) 11/1/2018 – 11/7/2018



Generated 11/8/2018 at HPRCC using provisional data.

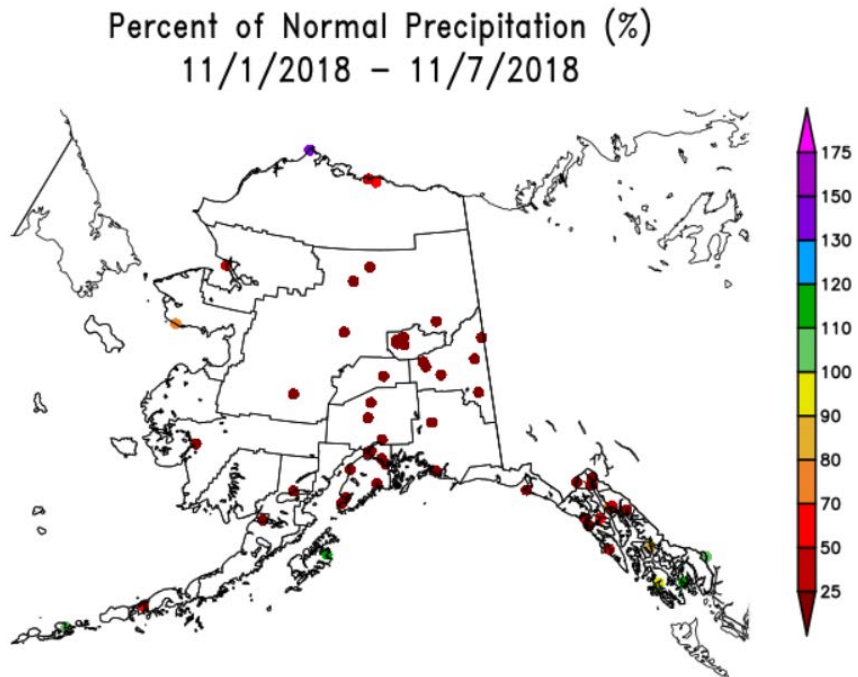
NOAA Regional Climate Centers

Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

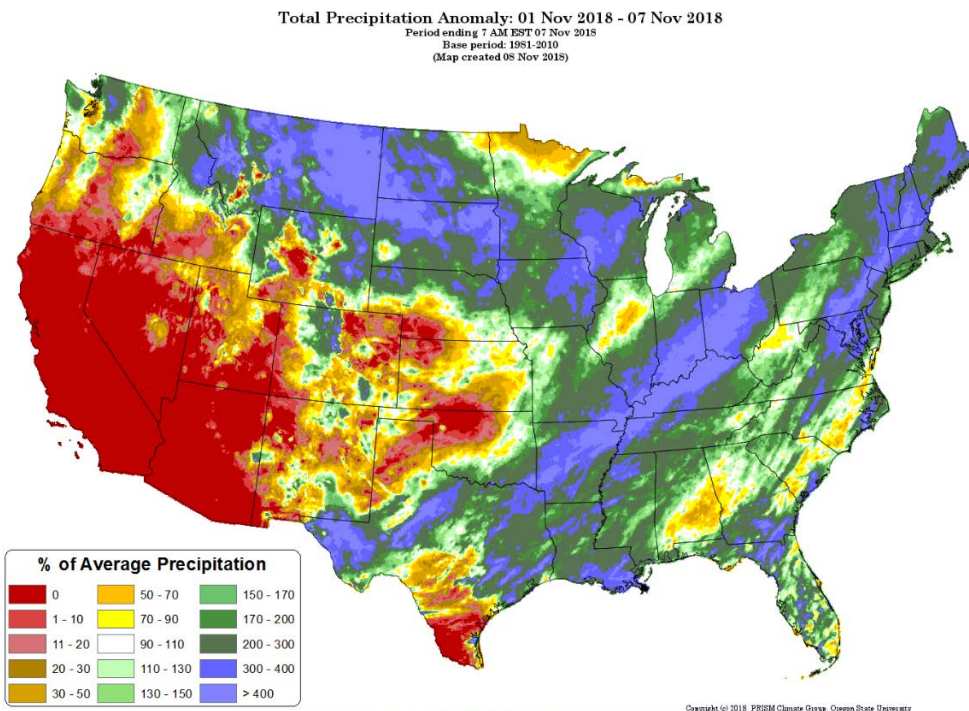
[7-day precipitation anomaly map](#) for Alaska.

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



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

Source: PRISM



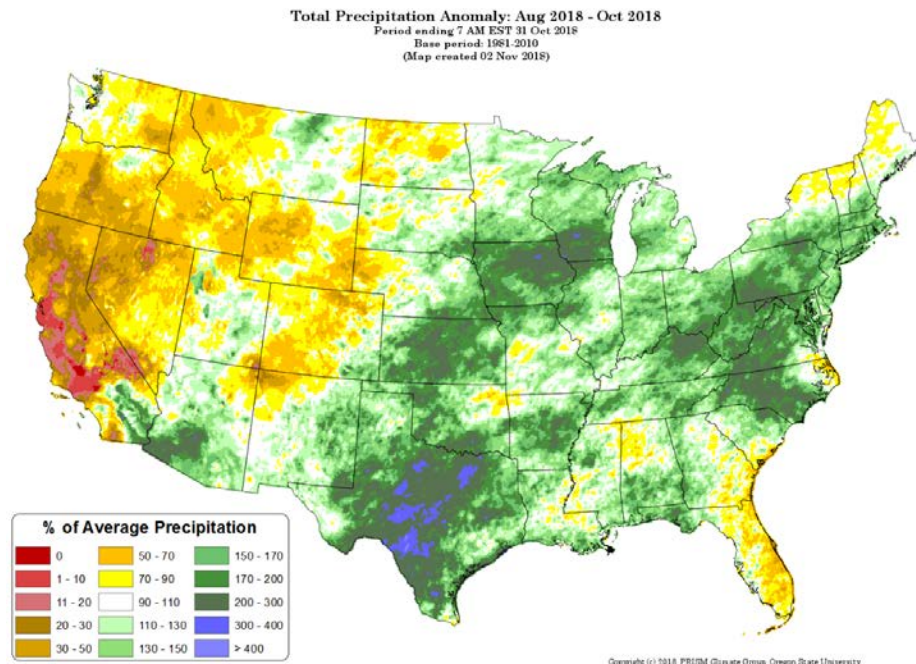
[Month-to-date national total precipitation percent of average map](#)

Water and Climate Update

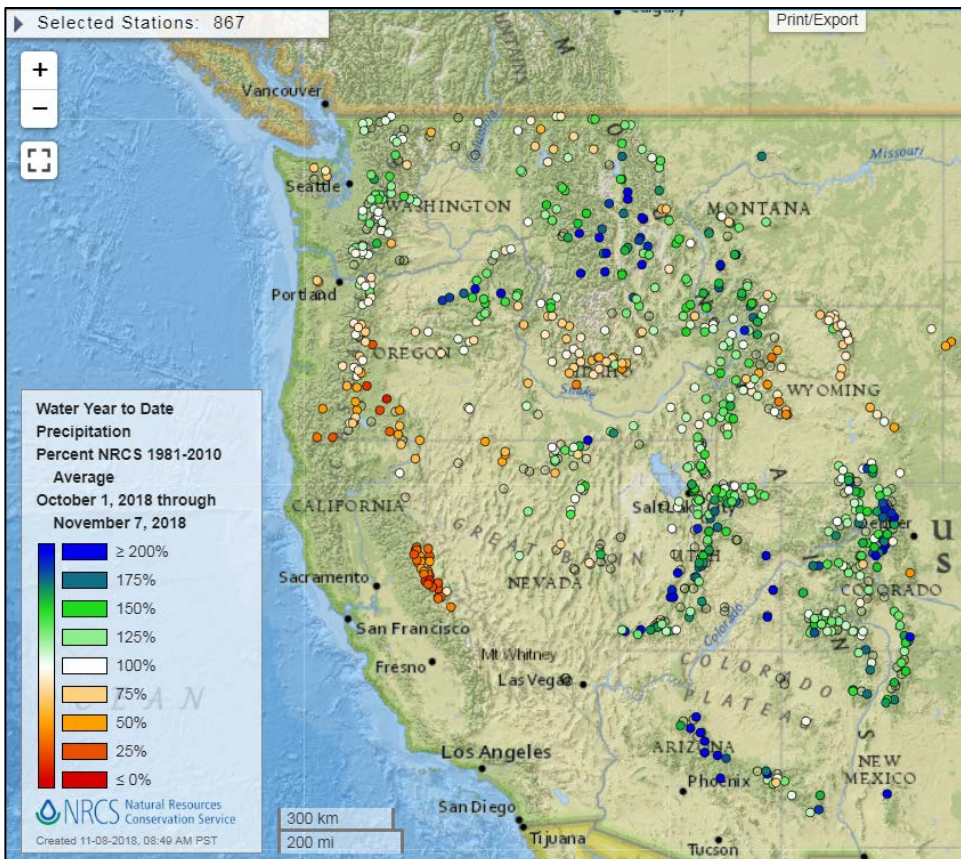
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[August through October 2018 total precipitation percent of average map](#)



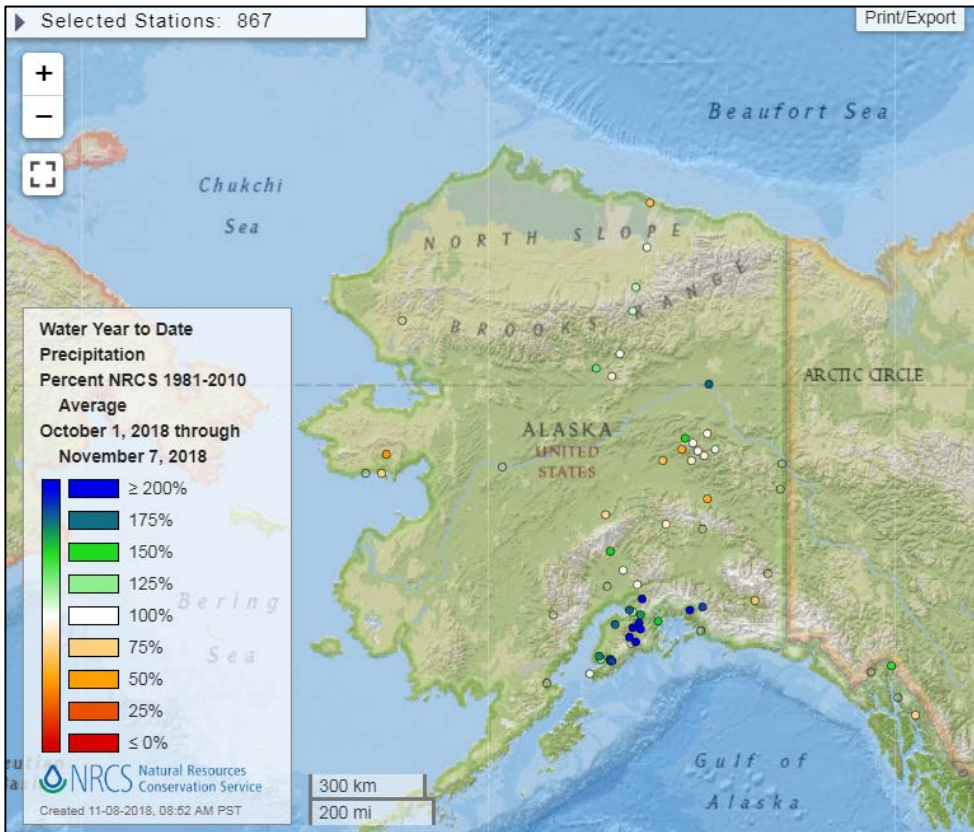
Water Year to Date, NRCS SNOTEL Network



[2019 water year-to-date precipitation percent of average map](#)

See also:
[2019 water year-to-date precipitation values \(inches\) map](#)

Water and Climate Update



[Alaska 2019 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2019 water year-to-date precipitation values \(inches\) map](#)

Temperature

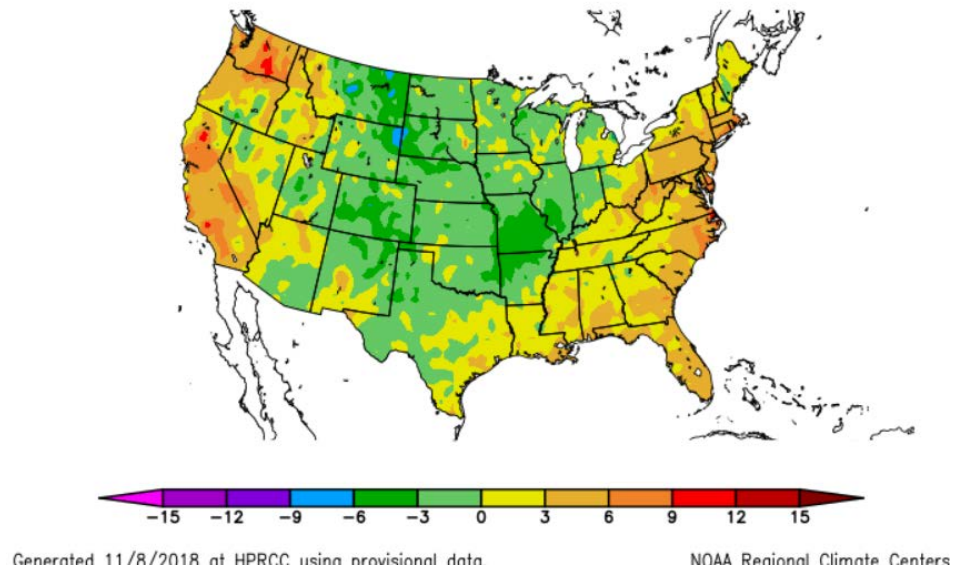
Last 7 Days, National Weather Service (NWS) Networks

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) 11/1/2018 – 11/7/2018



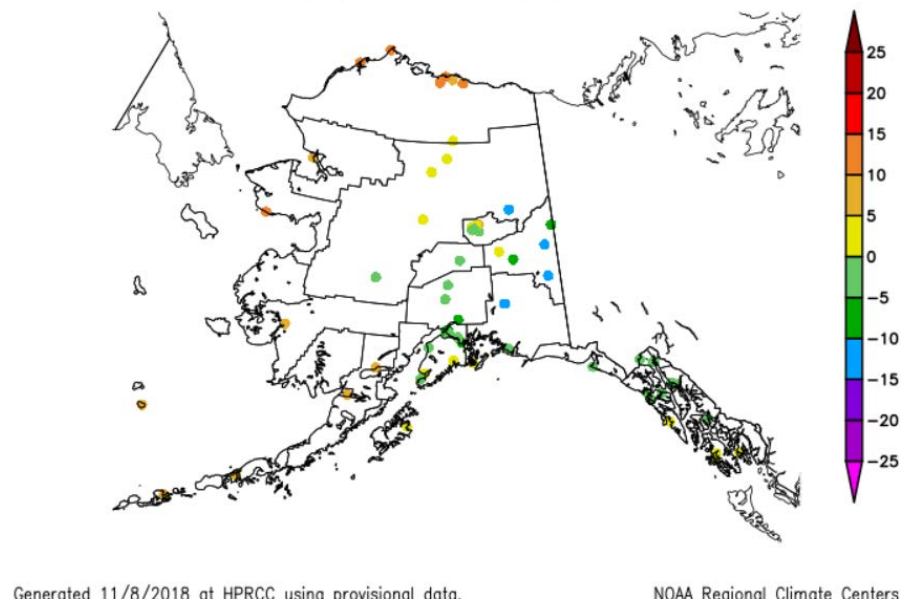
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F) 11/1/2018 – 11/7/2018

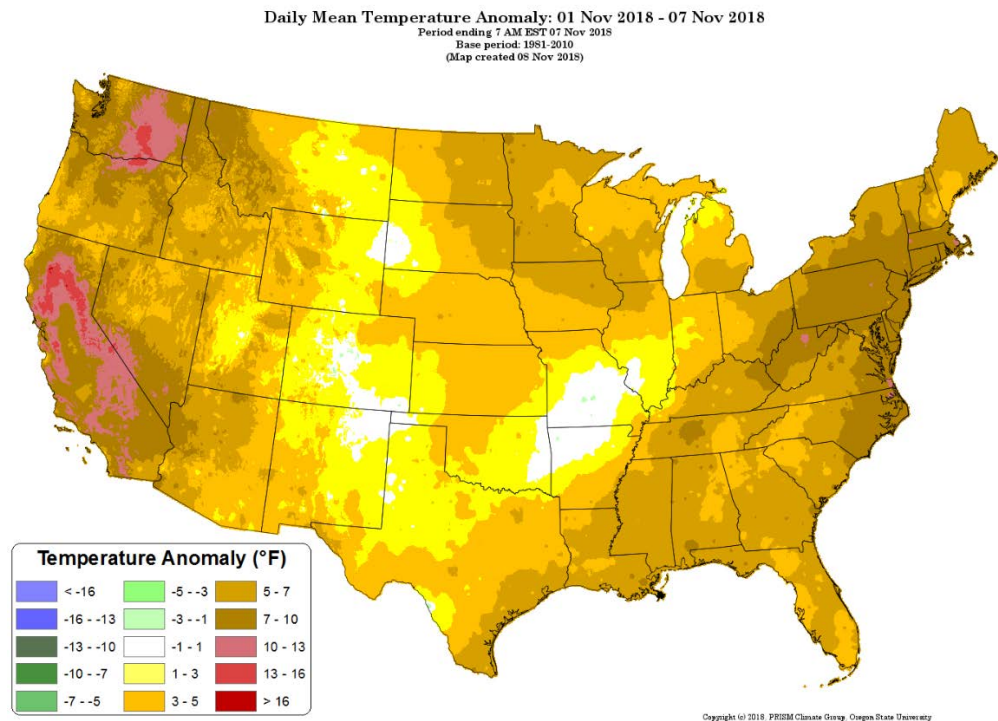


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Month-to-Date, All Available Data Including SNOTEL and NWS Networks

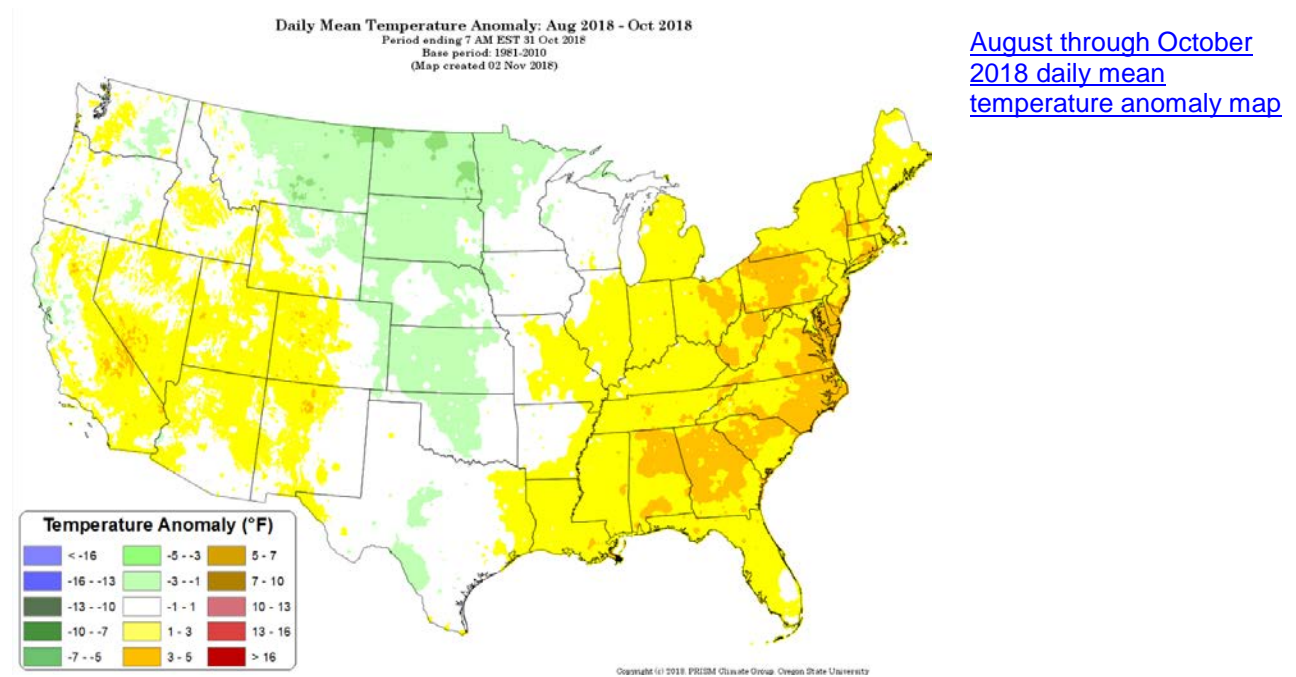
Source: PRISM

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



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

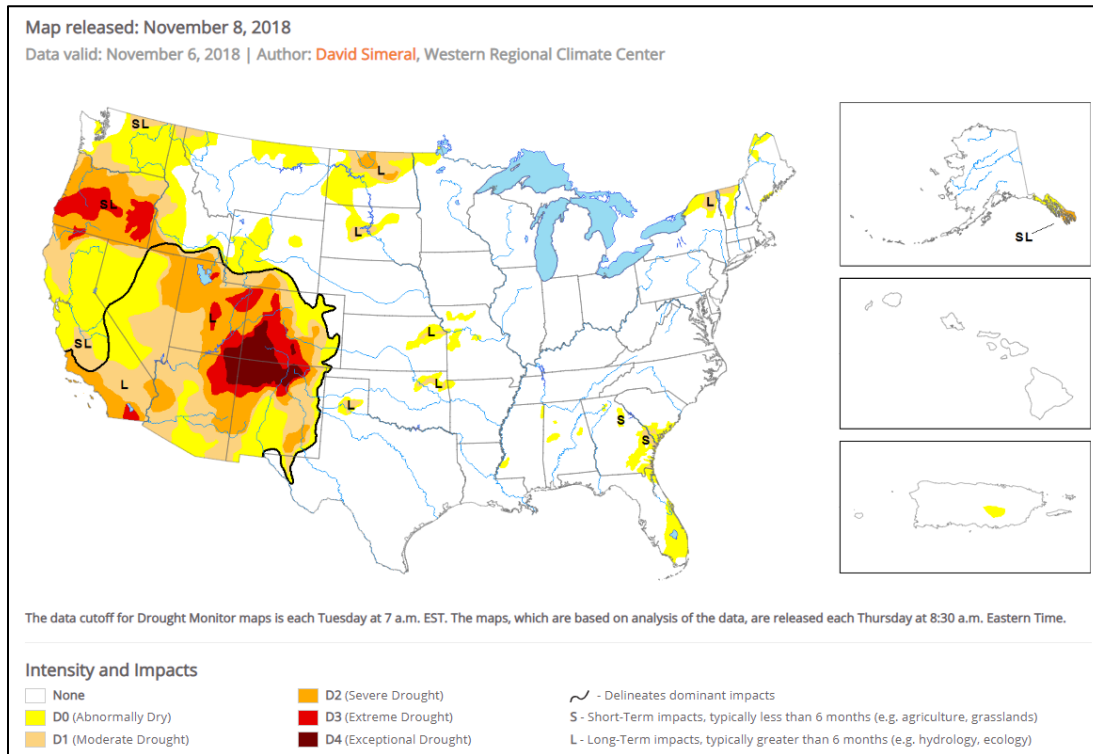
Source: PRISM



Drought

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

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



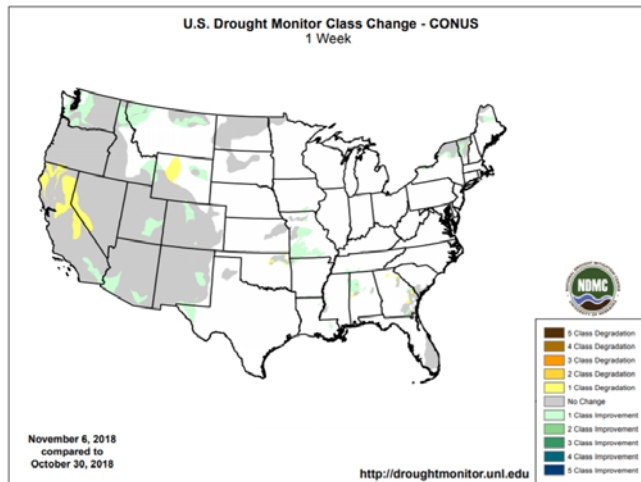
Current [National Drought Summary](#), November 8, 2018

Author: David Simeral, Western Regional Climate Center

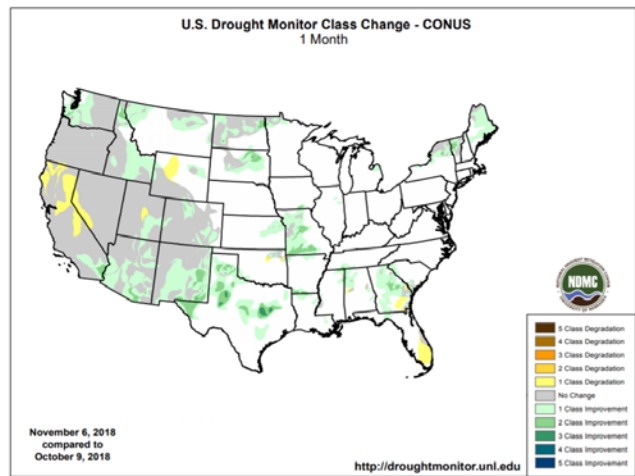
"This U.S. Drought Monitor week saw improvements on the map across portions of the Pacific Northwest as well as in the northern and central Rockies where scattered rain and mountain snow showers helped to boost snowpack levels and improve soil moisture content. In California and the western Great Basin, the dry pattern has continued from the summer months with no relief expected in the coming weeks in terms of precipitation. In northwestern California, the combination of long- and short-term precipitation deficits, agricultural impacts, and poor surface water flows led to further degradation of conditions. Conversely, in the desert region of southeastern California, areas of severe and extreme drought improved in response to well above-normal precipitation levels during the past 60 days in association with residual moisture from two tropical storm events that impacted the Southwest. Across the lower Midwest and Northeast, beneficial rains this week helped to reduce short-term precipitation deficits and improve soil moisture."

Changes in Drought Monitor Categories over Time

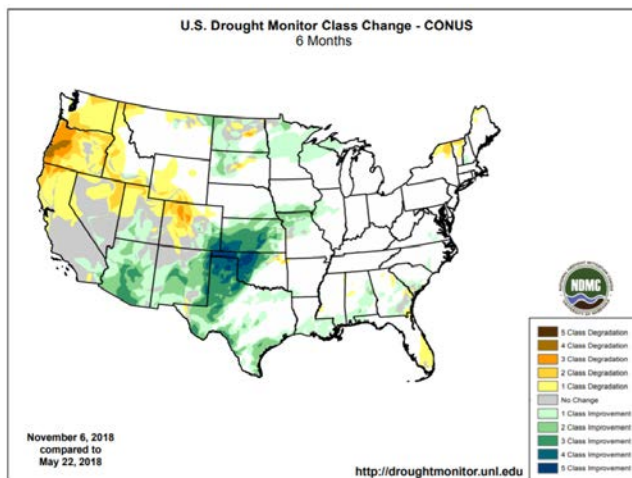
1 Week



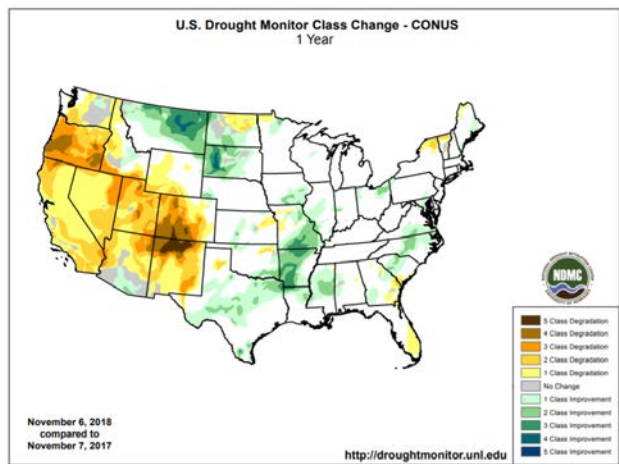
1 Month



6 Months



1 Year

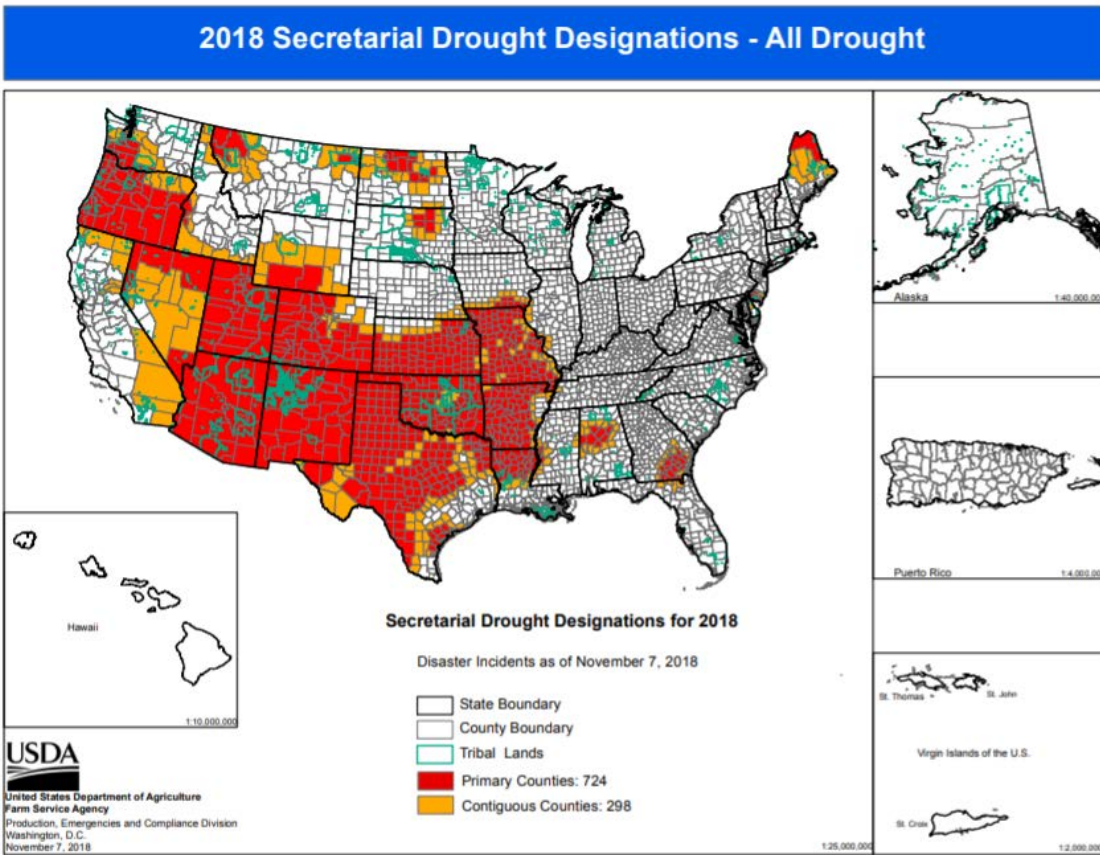


Changes in drought conditions over the last 12 months

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](#)

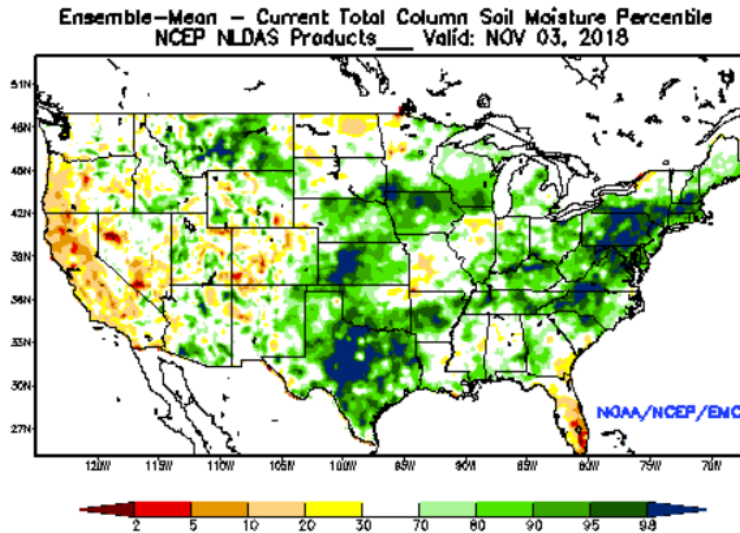
USDA 2018 Secretarial [Drought Designations](#)



Other Climatic and Water Supply Indicators

Soil Moisture

Source: NOAA National Centers for Environmental Prediction



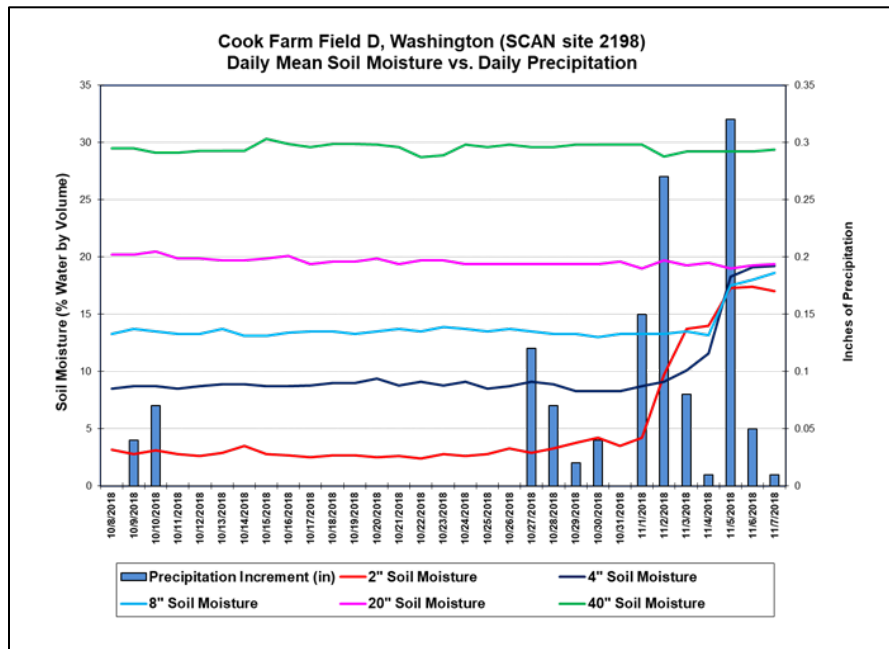
Soil Moisture Data Portals

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

[Modeled soil moisture percentiles](#) as of November 3, 2018

Soil Moisture Data

Source: NRCS [Soil Climate Analysis Network](#) (SCAN)

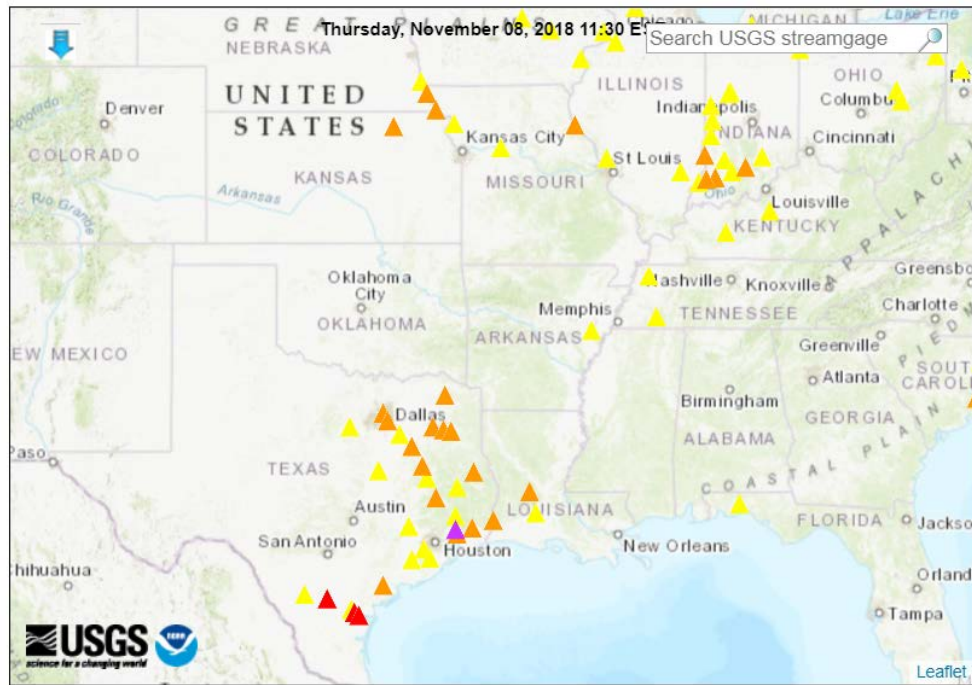


This chart shows the precipitation events during the last 30 days at the [Cook Farm Field D SCAN site](#) in Washington. This site is in eastern Washington in an area that has experienced a period of dry weather. Recent precipitation has increased soil moisture levels at the 2-, 4-, and 8-inch sensor depths.

Streamflow

Source: USGS

Map of flood and high flow conditions



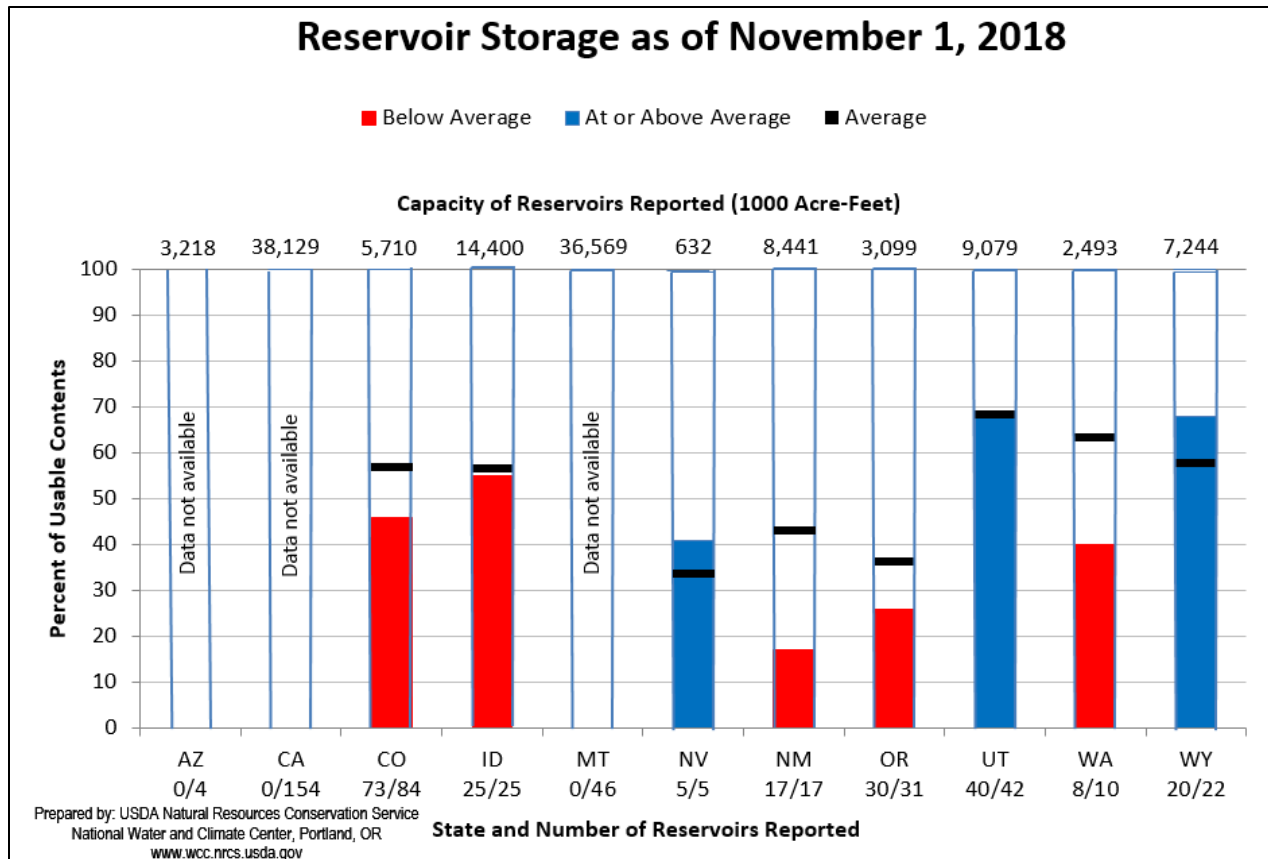
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
Streamgage with flood stage Streamgage without flood stage						

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



November 1, 2018 Reservoir Storage: [Chart](#) | [Dataset](#)

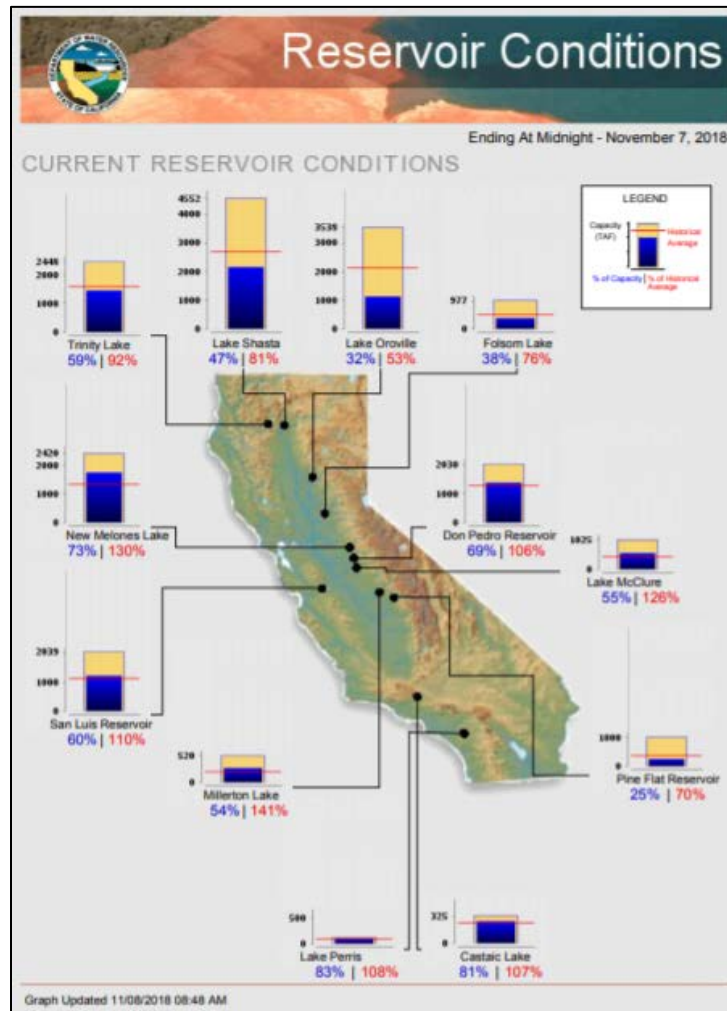
U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions

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

Water and Climate Update

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

Short- and Long-Range Outlooks

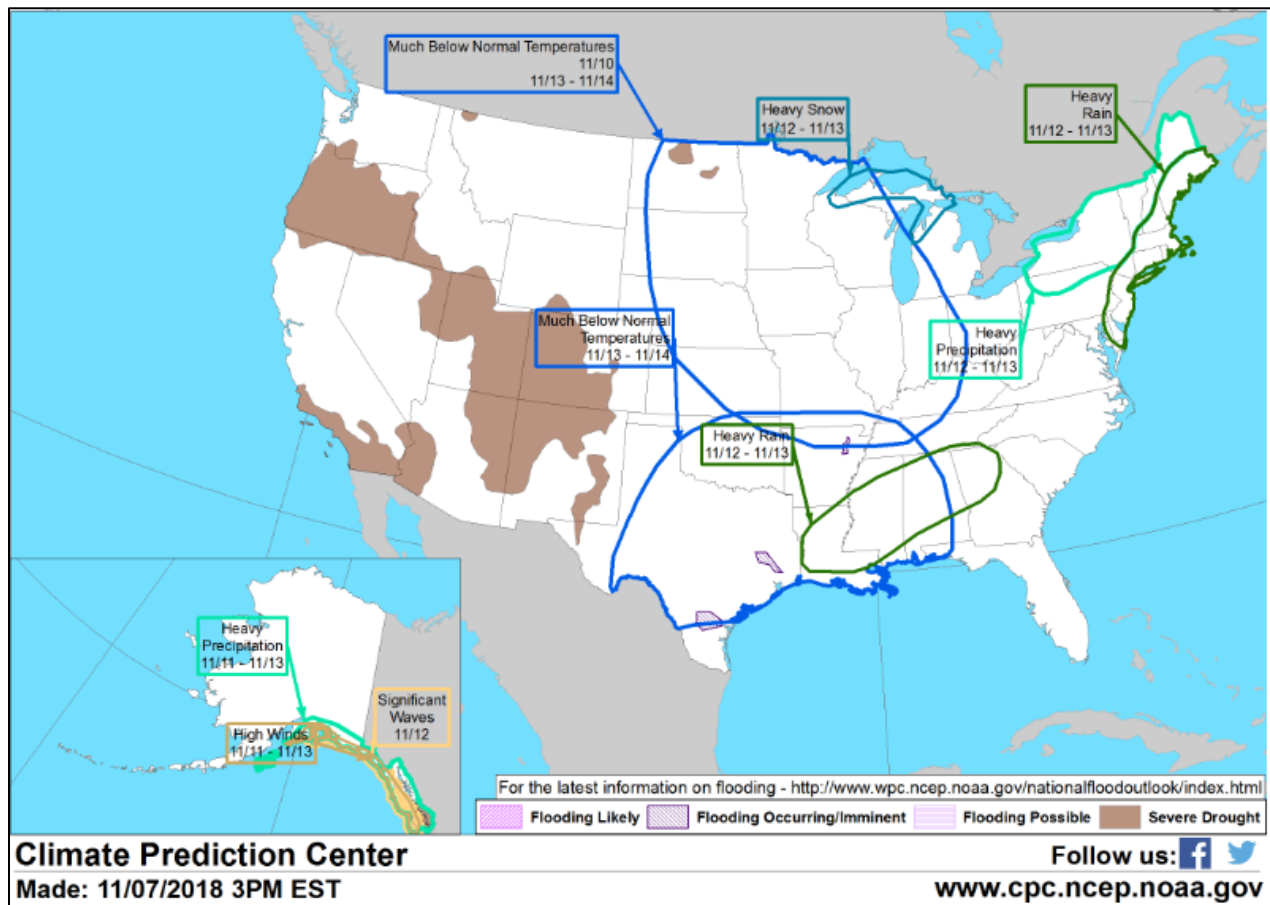
Agricultural Weather Highlights

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

National Outlook, Wednesday, November 7: “Cold conditions will persist through week’s end, except for lingering warmth in California and southern Florida. Late in the week, a developing storm system will produce widespread precipitation across the southern and eastern U.S., with storm totals reaching 1 to 2 inches or more in many locations. Meanwhile, mid- to late-week snow accumulations can be expected from the central Plains into portions of the Great Lakes region and northern New England. Elsewhere, dry weather will prevail during the next 5 days in most areas west of the Rockies, while a Santa Ana wind event in California could favor wildfire development and expansion. The NWS 6- to 10-day outlook for November 12 – 16 indicates that colder-than-normal conditions will cover the central and eastern U.S., while above-normal temperatures will be limited to the Far West. Meanwhile, wetter-than-normal weather in southern Texas and the Atlantic Coast States will contrast with near- or below-normal precipitation across the remainder of the country.”

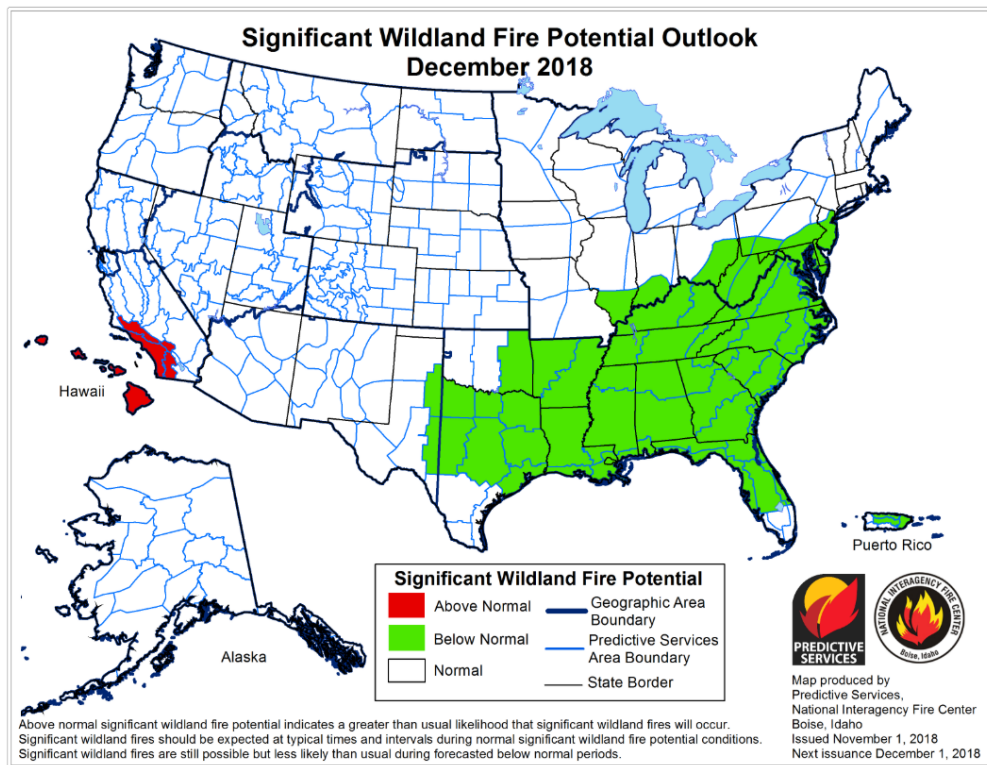
Weather Hazards Outlook **November 10 – 14, 2018**

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

Source: National Interagency Fire Center

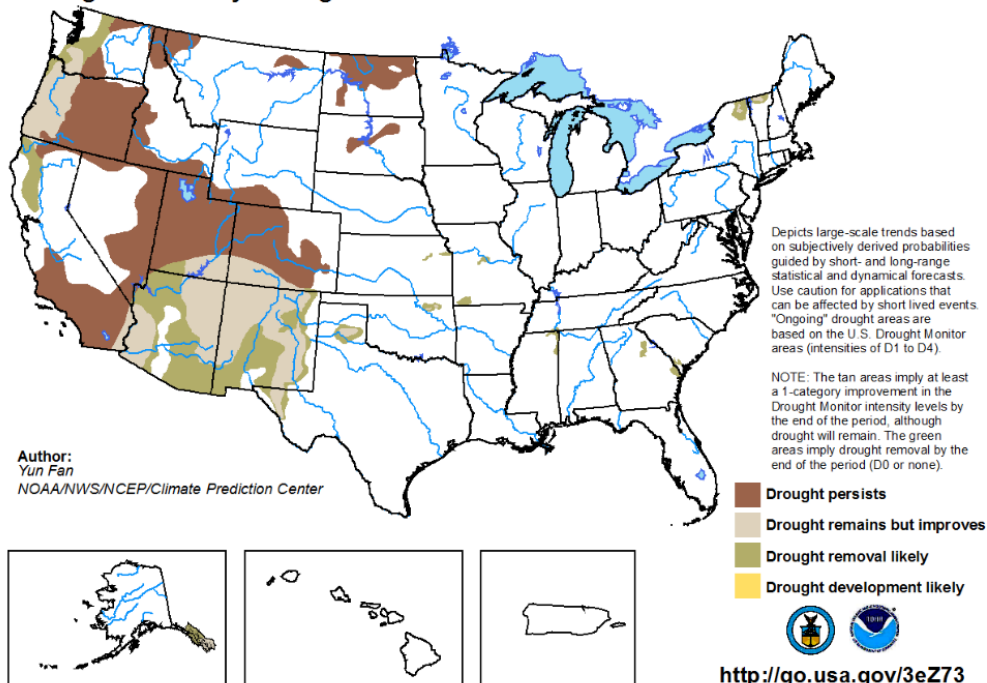


Seasonal Drought Outlook: [October 18, 2018 - January 31, 2019](#)

Source: National Weather Service

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

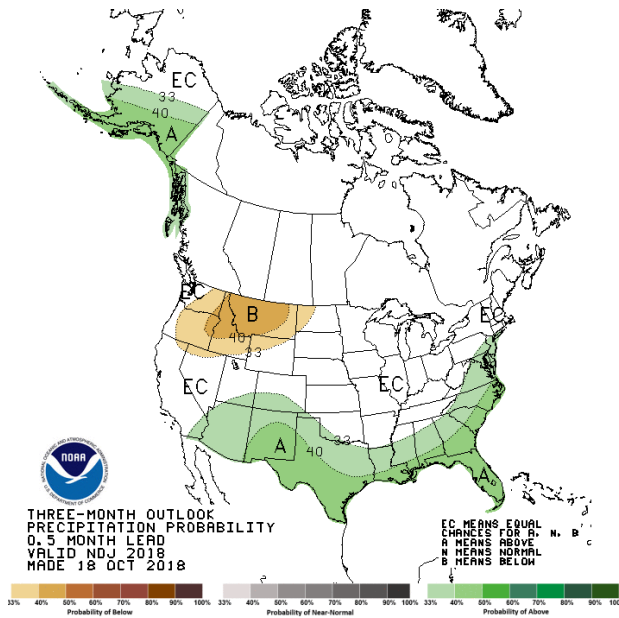
Valid for October 18 - January 31, 2019
Released October 18, 2018



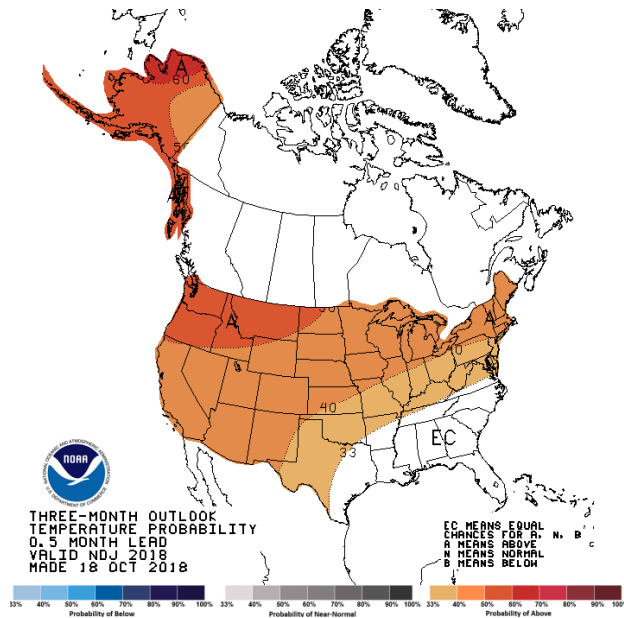
Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation



Temperature



November-December-January (NDJ) 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](#).