

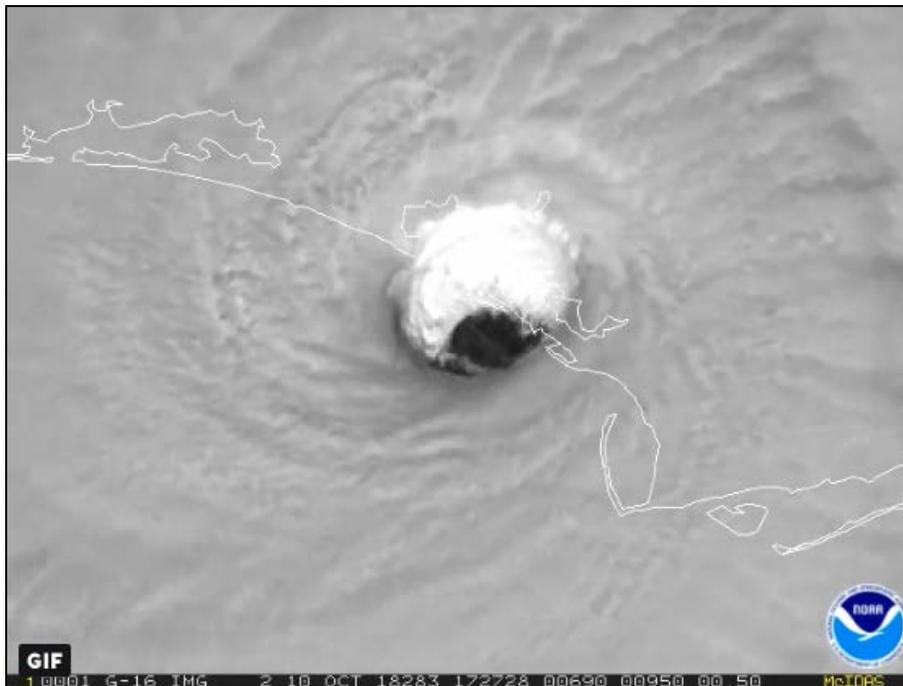
Water and Climate Update

October 11, 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.

Precipitation	1	Other Climatic and Water Supply Indicators	11
Temperature	6	Short- and Long-Range Outlooks.....	15
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Hurricane Michael strikes Florida Panhandle



[#HurricaneMichael](#) intensified as the storm made landfall near Mexico Beach, Florida. [@NOAA's #GOESEast](#) satellite captured this view of the Category 4 hurricane moving ashore.

Hurricane Michael made landfall on the Florida Panhandle yesterday at 1:30 pm EDT near Mexico Beach, with sustained winds of 155 mph, just 2 mph less than a Category 5 hurricane. The barometric pressure of 919mb is the third lowest of any storm on record making landfall in the U.S. Rainfall totals of more than 6 inches were reported in some locations. The fast moving, intense storm caused severe damage along its path to homes and buildings, and brought trees and powerlines down.

Related:

[Hurricane Michael leaves behind catastrophic damage in Florida](#) – CBS12 (FL)

[Hurricane Michael leaves path of destruction](#) – AP

[MICHAEL: Catastrophic Storm Leaves Path of Destruction in Panhandle](#) – News 13 (FL)

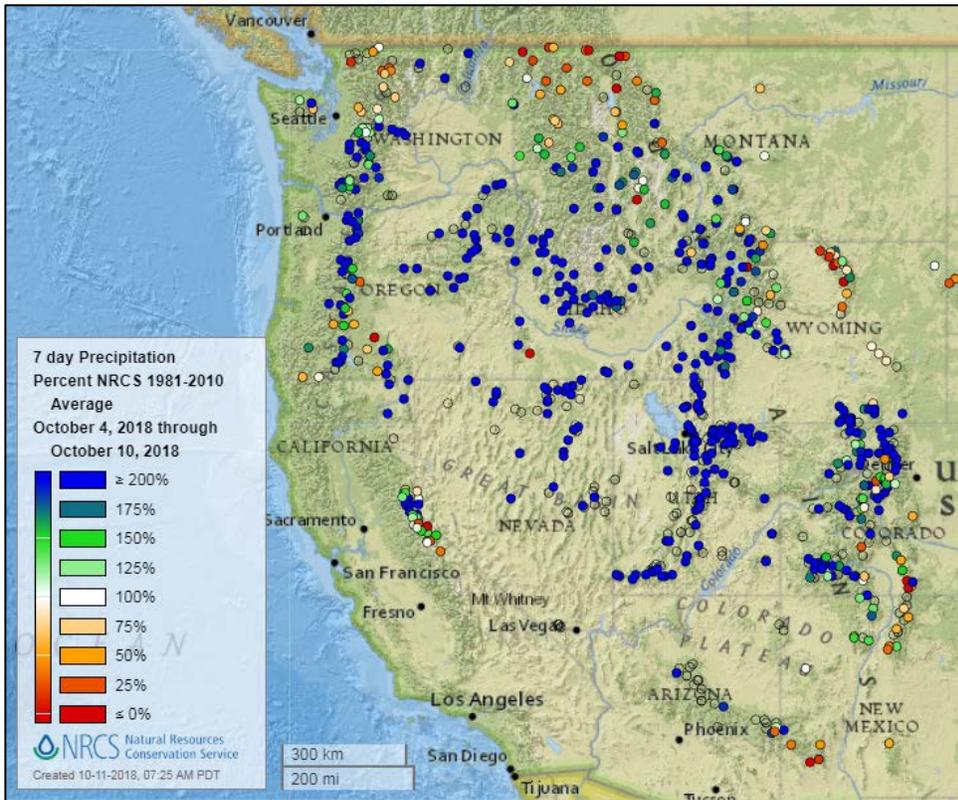
[Officials worry Hurricane Michael death toll could rise as crews struggle to access hard-hit areas](#) – NBC News

[Michael is the strongest hurricane to hit the continental US since Andrew](#) - WTKR (VA)

[FEMA Briefing on Hurricane Michael](#) - C-SPAN

Precipitation

Last 7 Days, NRCS SNOTEL Network

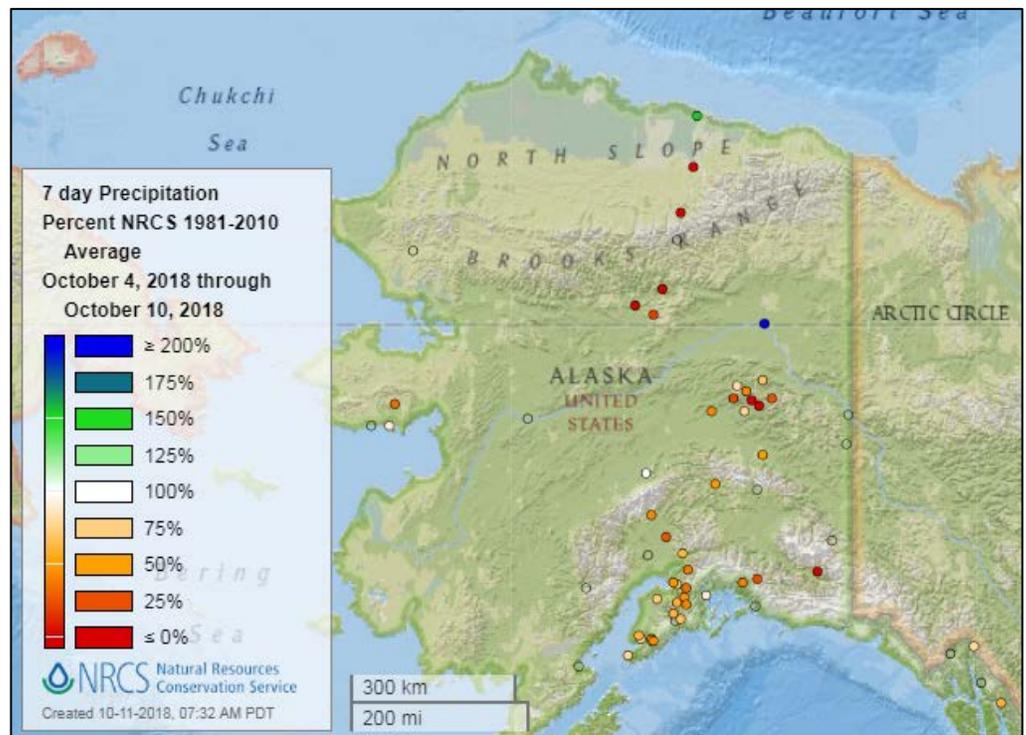


[7-day precipitation percent of average map](#)

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](#)



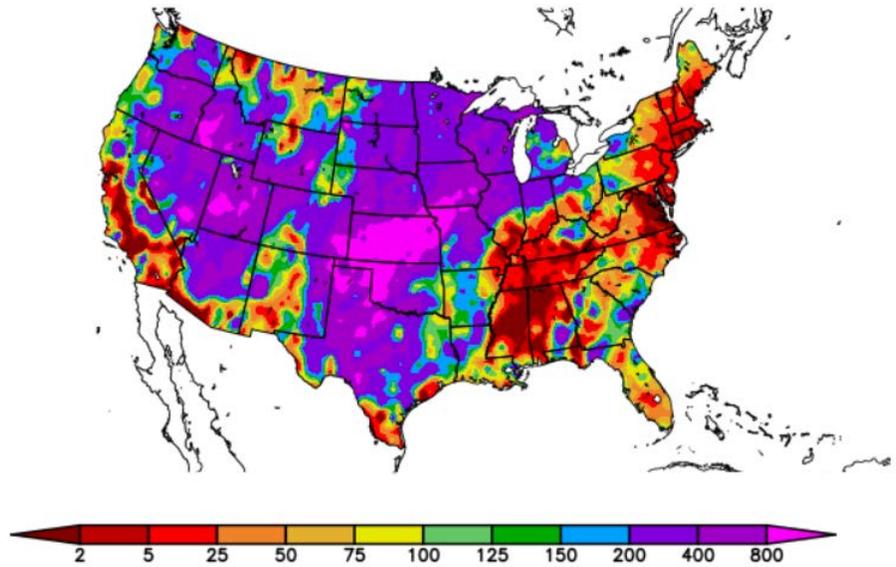
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
10/4/2018 – 10/10/2018



Generated 10/11/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

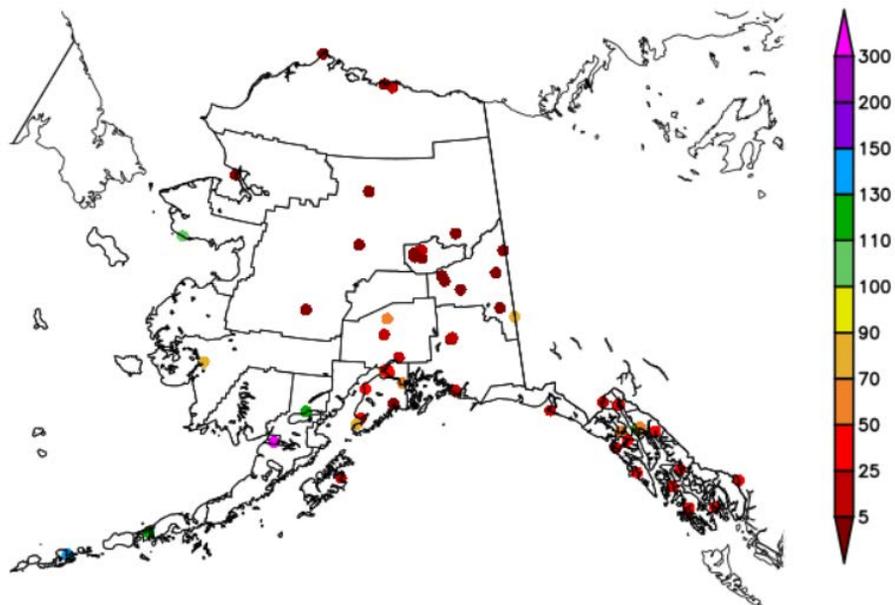
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
10/4/2018 – 10/10/2018



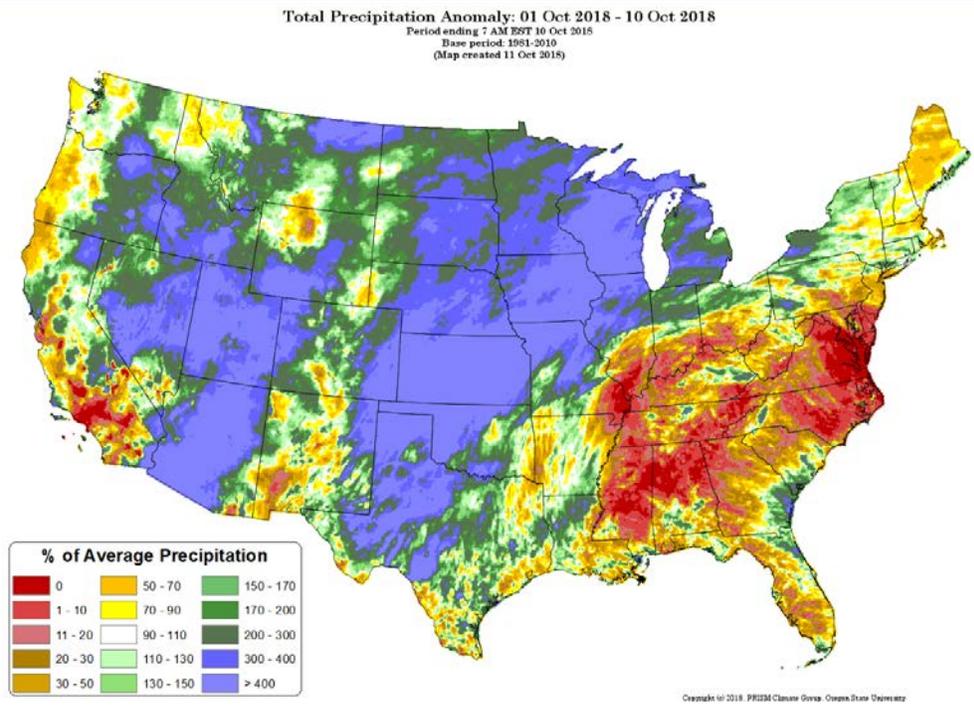
Generated 10/11/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

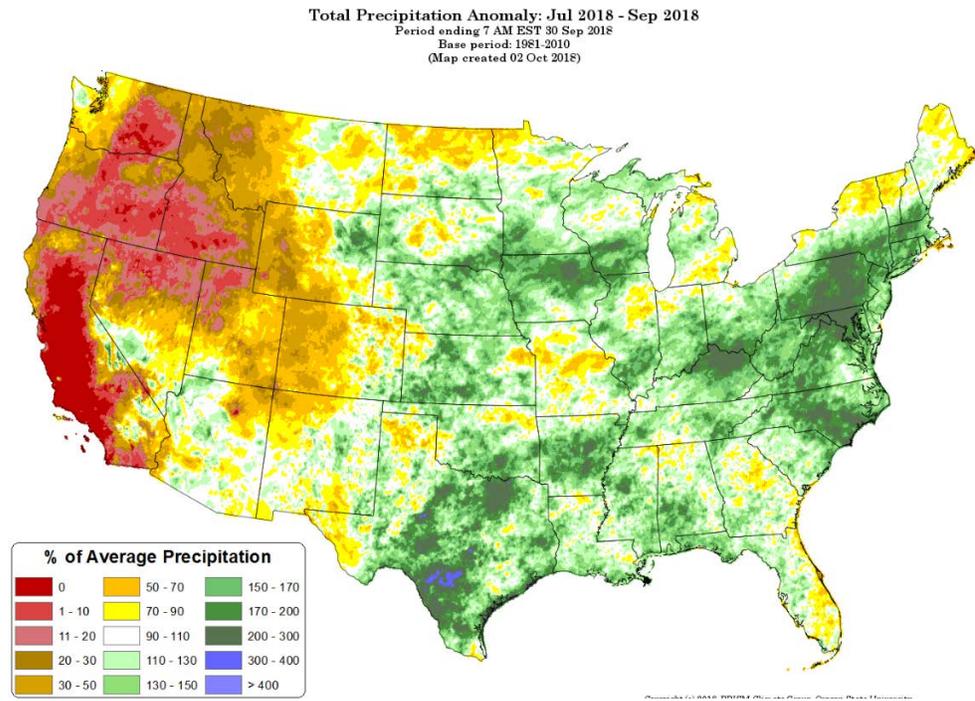


[Month-to-date national total precipitation percent of average map](#)

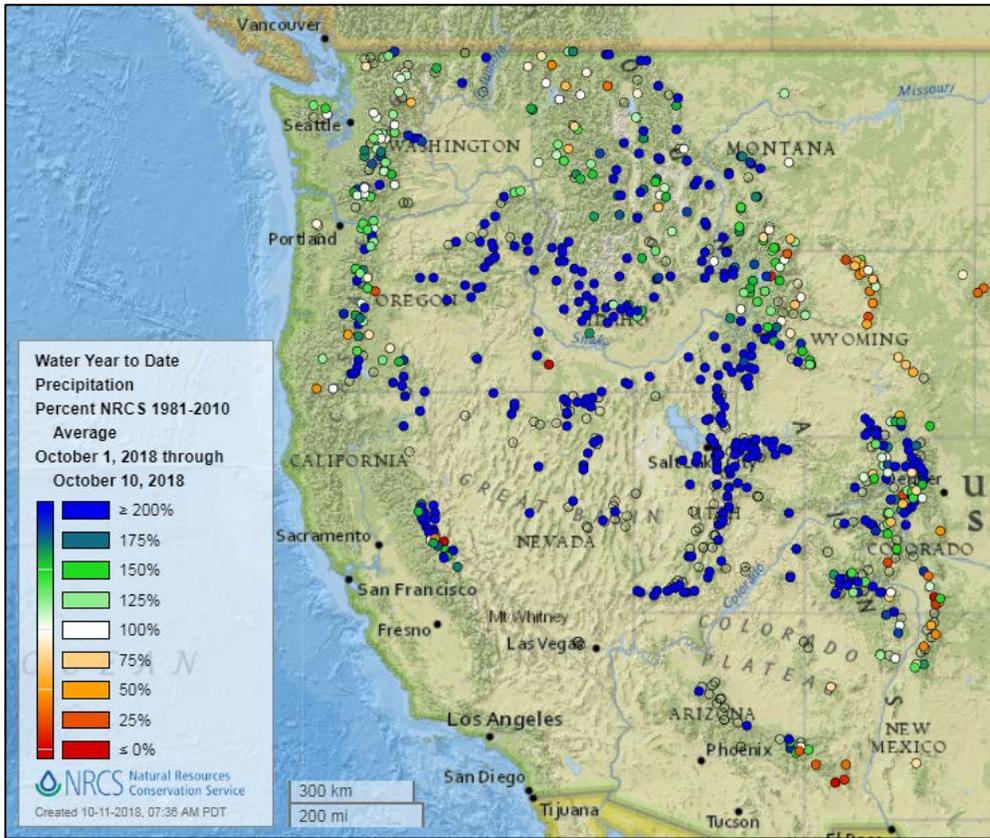
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[July through September 2018 total precipitation percent of average map](#)



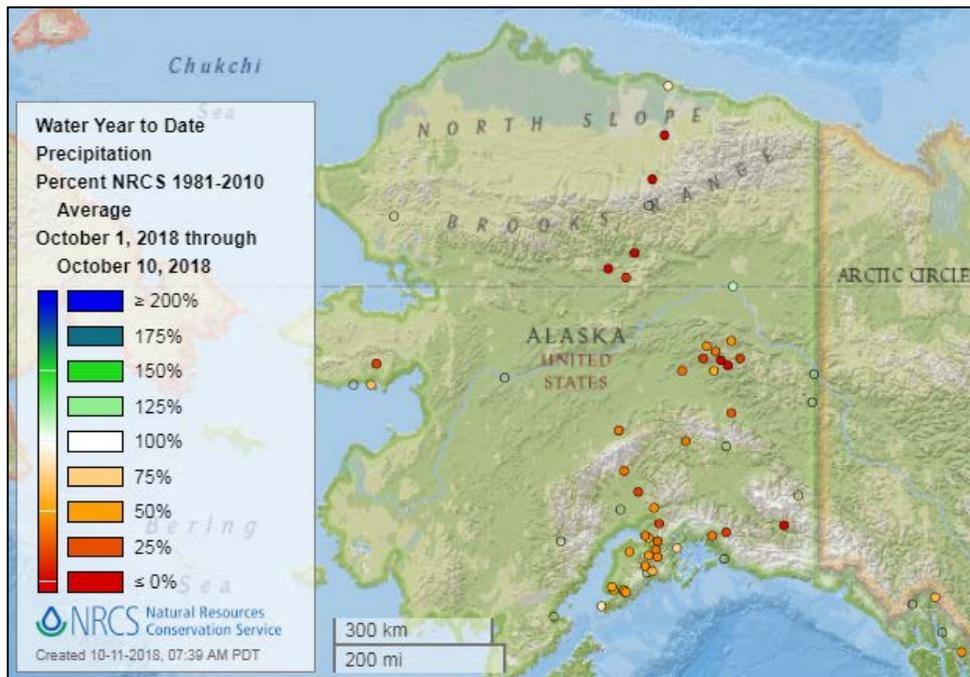
Water Year-to-Date, NRCS SNOTEL Network



Note:
October 1 is the start of the 2019 Water Year

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

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



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

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

Temperature

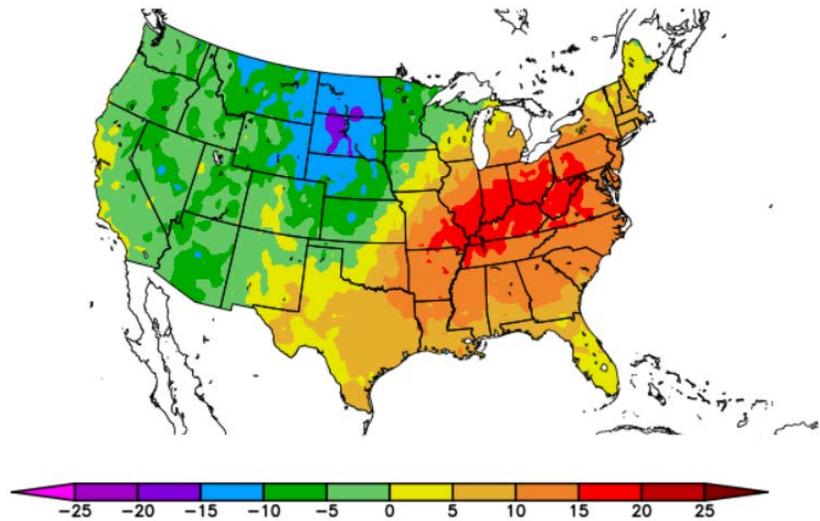
Last 7 Days, National Weather Service (NWS) Networks

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)
10/4/2018 – 10/10/2018



Generated 10/11/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

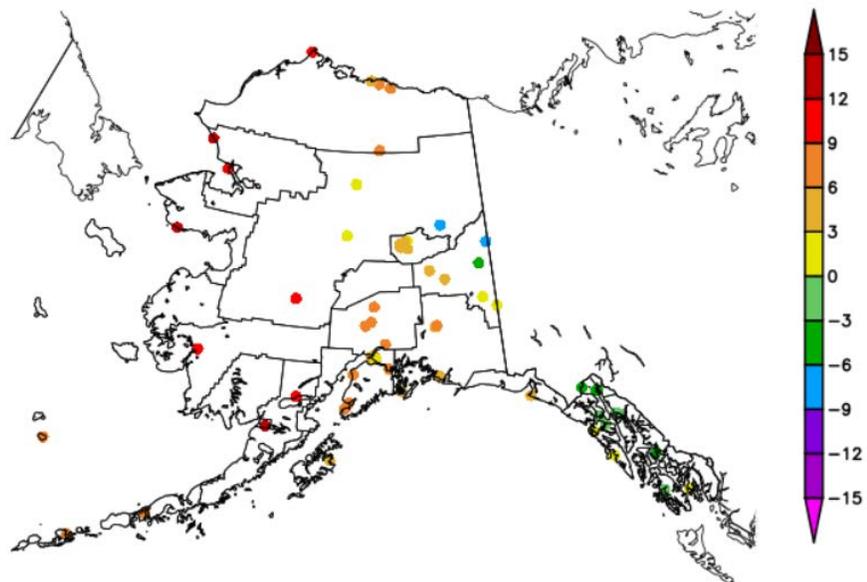
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
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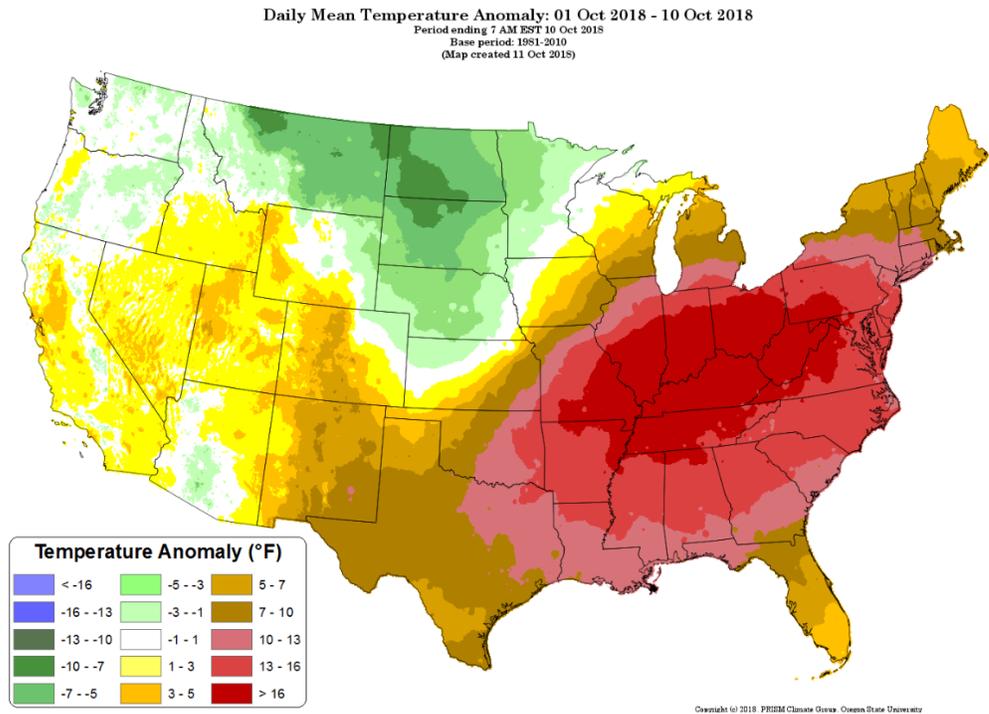
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

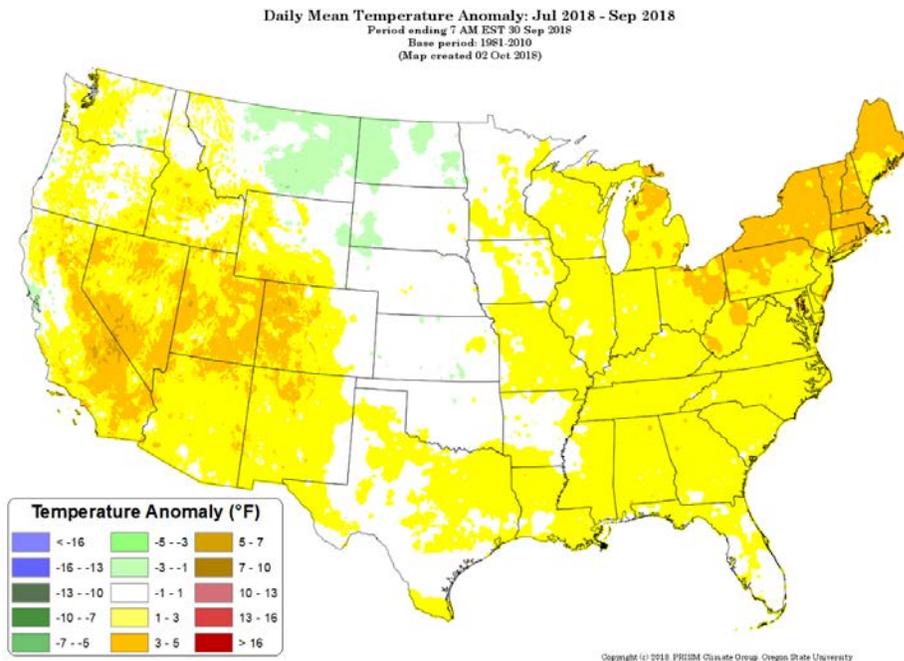
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

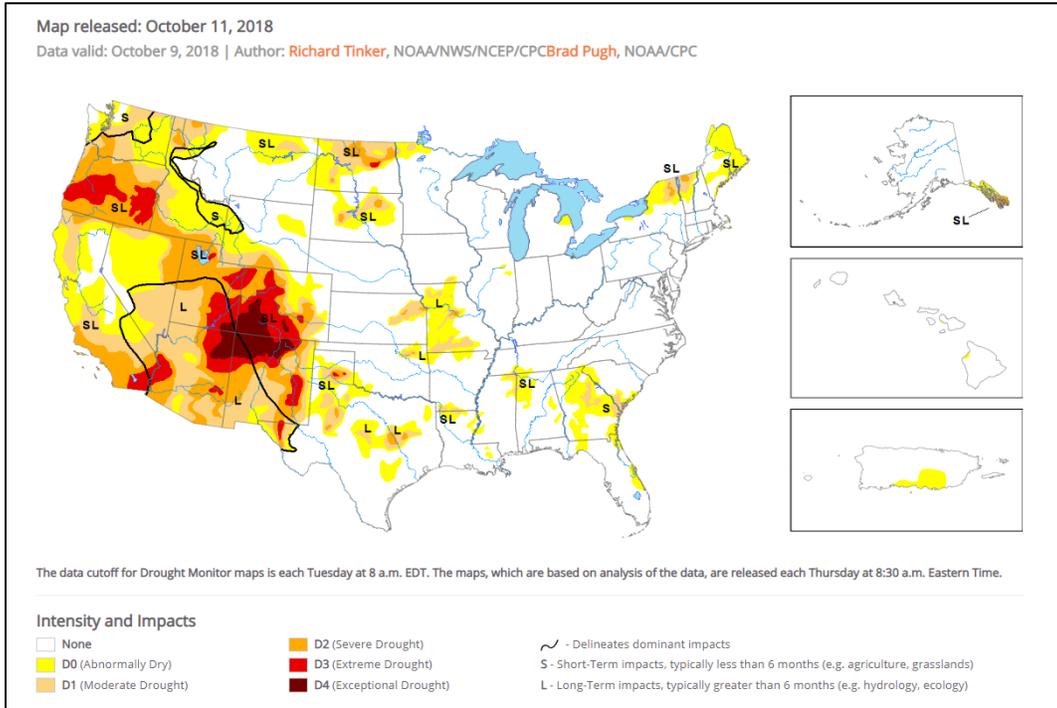
[July through September 2018 daily mean temperature anomaly map](#)



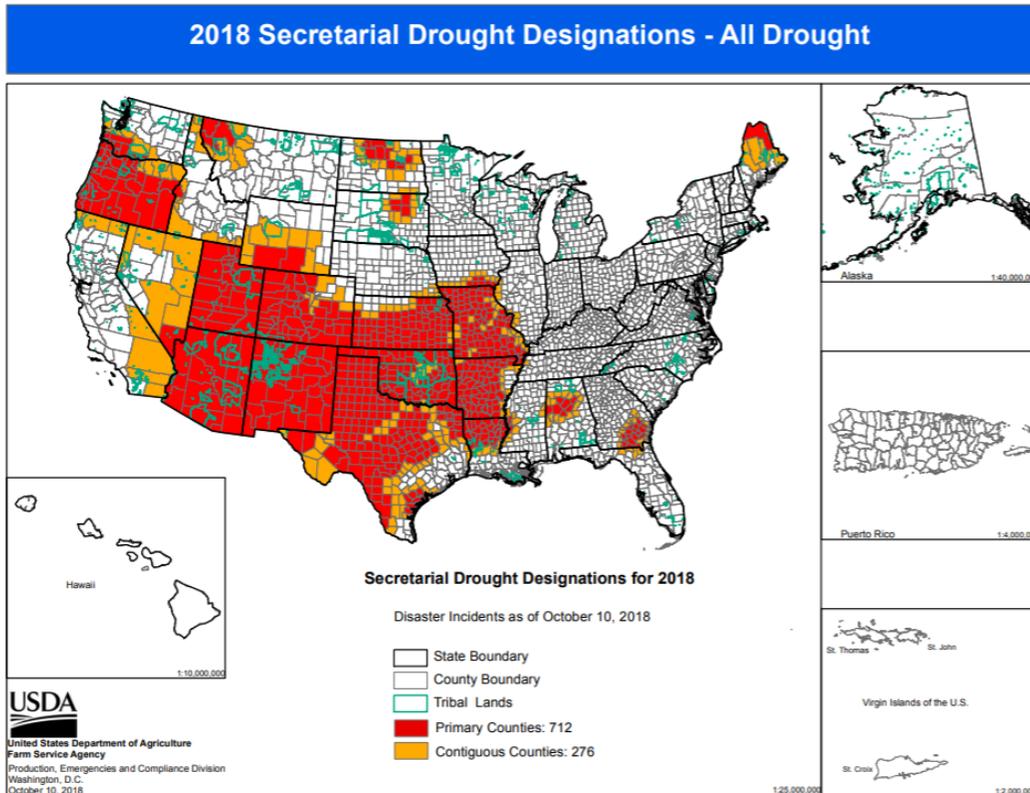
Drought

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

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

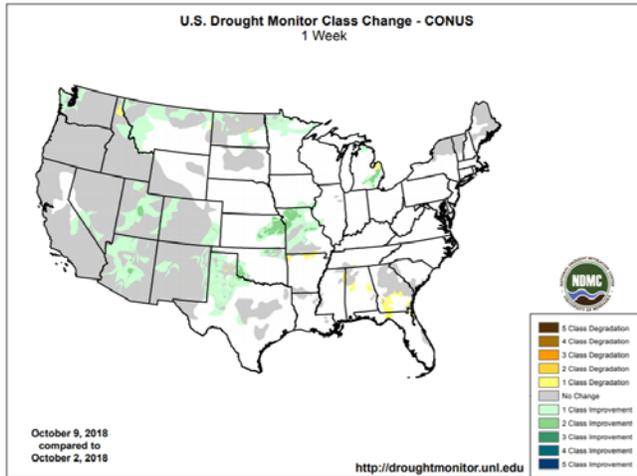


USDA 2018 Secretarial [Drought Designations](#)

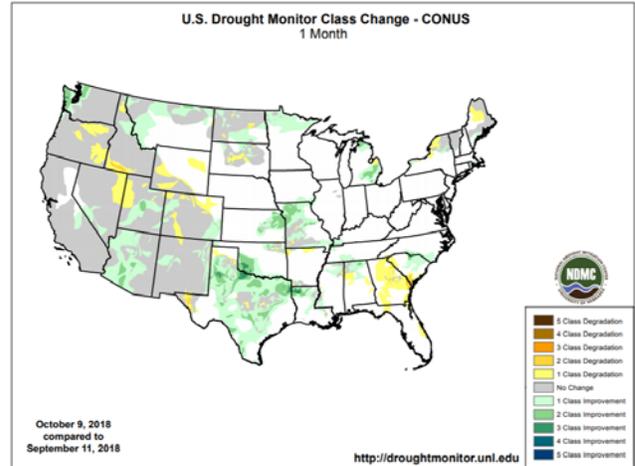


Changes in Drought Monitor Categories over Time

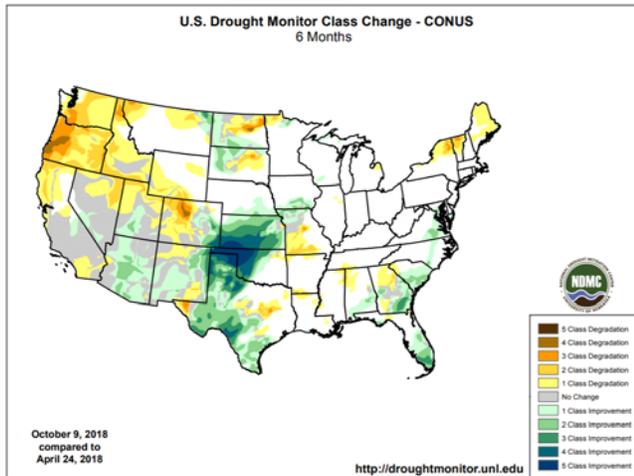
1 Week



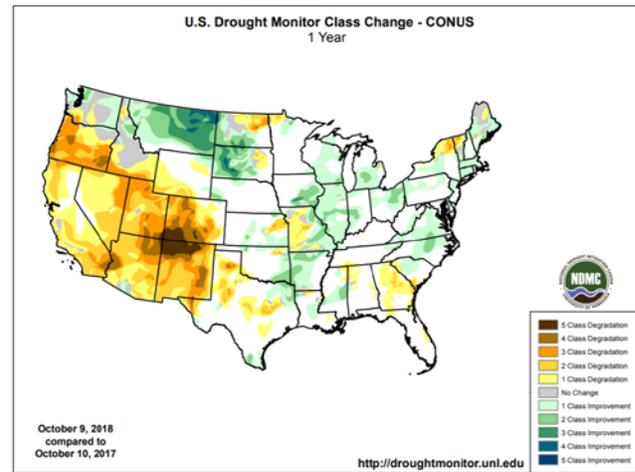
1 Month



6 Months



1 Year

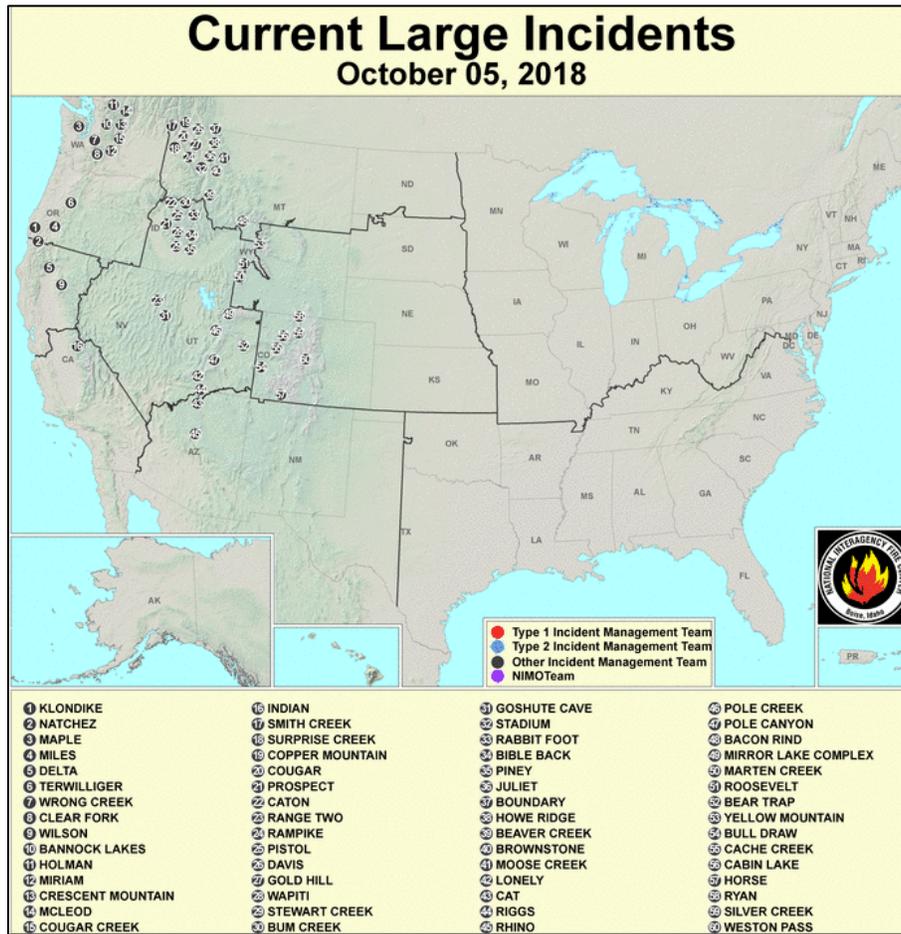


Changes in drought conditions over the last 12 months

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](#)

Wildfires: [USDA Forest Service Active Fire Mapping](#)



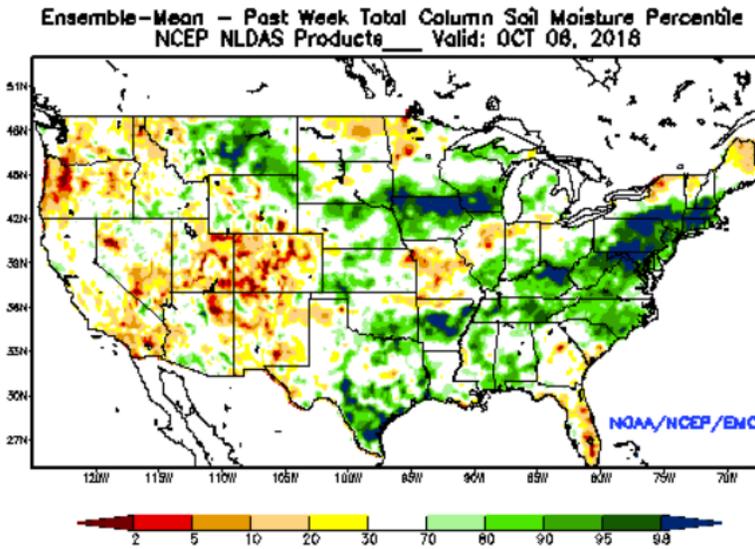
Highlighted Wildfire Resources

- [National Interagency Fire Center](#)
- [InciWeb Incident Information System](#)
- [Significant Wildland Fire Potential Outlook](#)

Other Climatic and Water Supply Indicators

Soil Moisture

Source: NOAA National Centers for Environmental Prediction



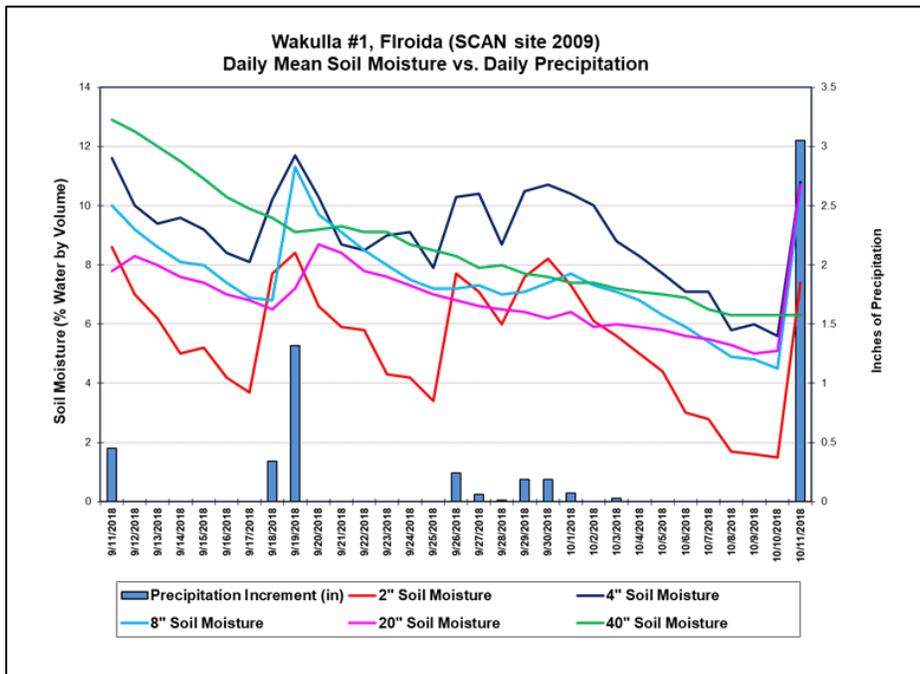
Soil Moisture Data Portals

- [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 October 6, 2018

Soil Moisture Data

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

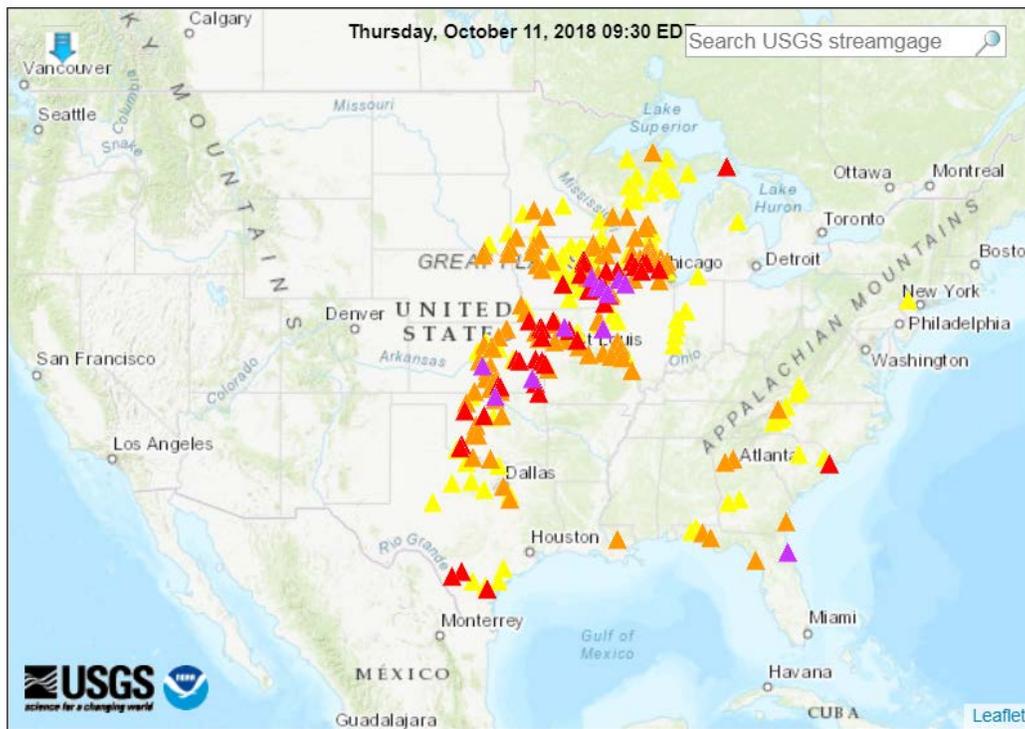


This chart shows precipitation and soil moisture during the last 30 days at the [Wakulla #1 SCAN site](#) in Florida. This site is located in an area impacted by Hurricane Michael. On October 11, accumulated precipitation totaled 3.05 inches and the 2-, 4-, 8-, and 20-inch sensors showed an increase in soil moisture levels.

Streamflow

Source: USGS

Map of flood and high flow conditions



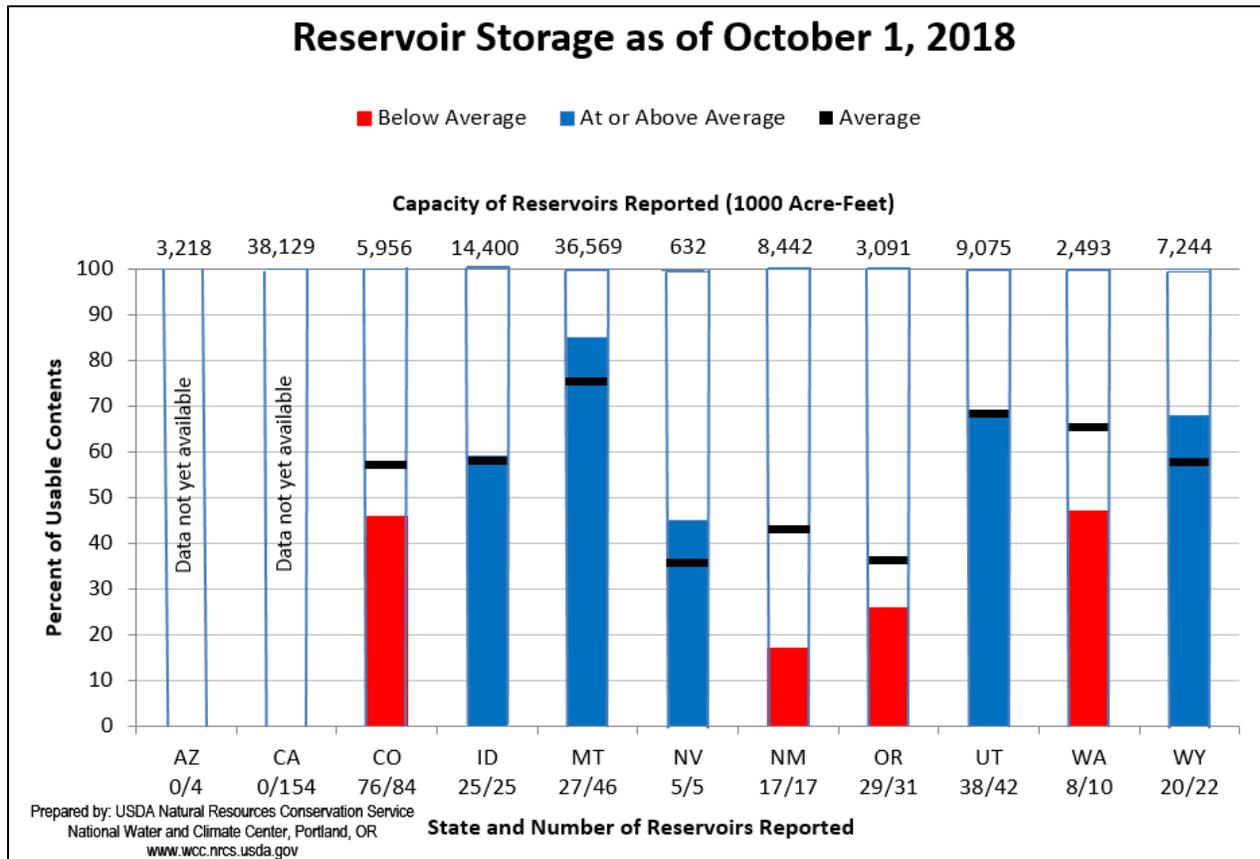
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
△ Streamgage with flood stage			○ Streamgage without flood stage			

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



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

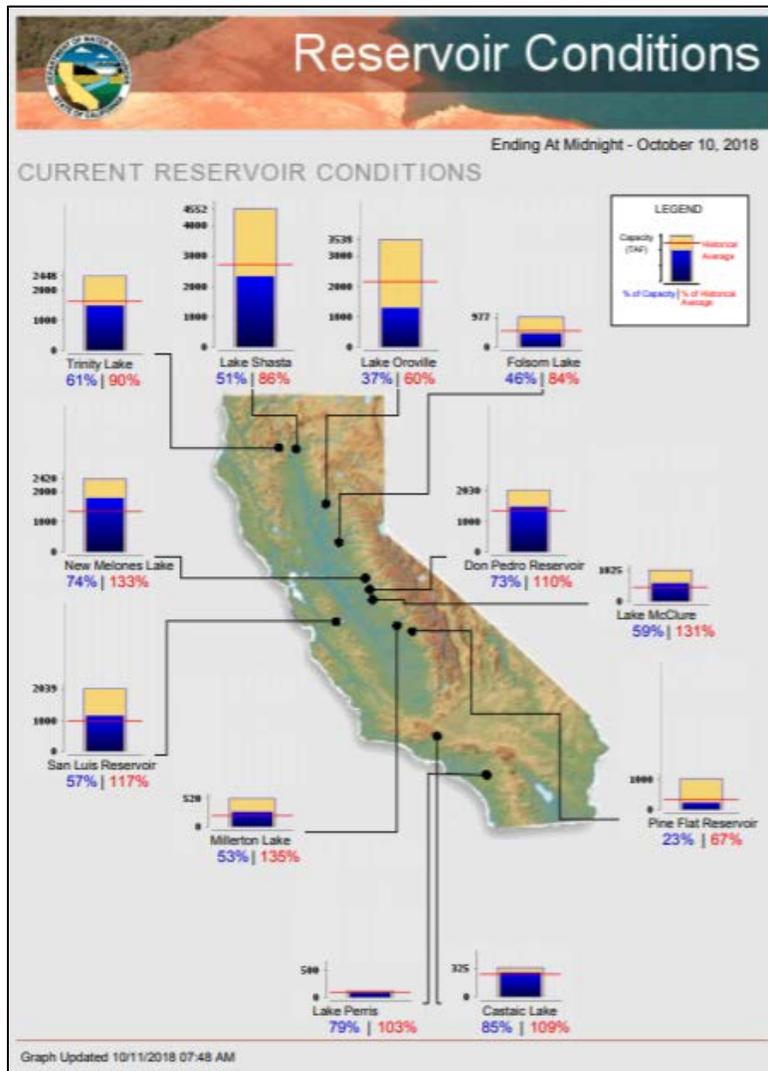
U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions

- [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

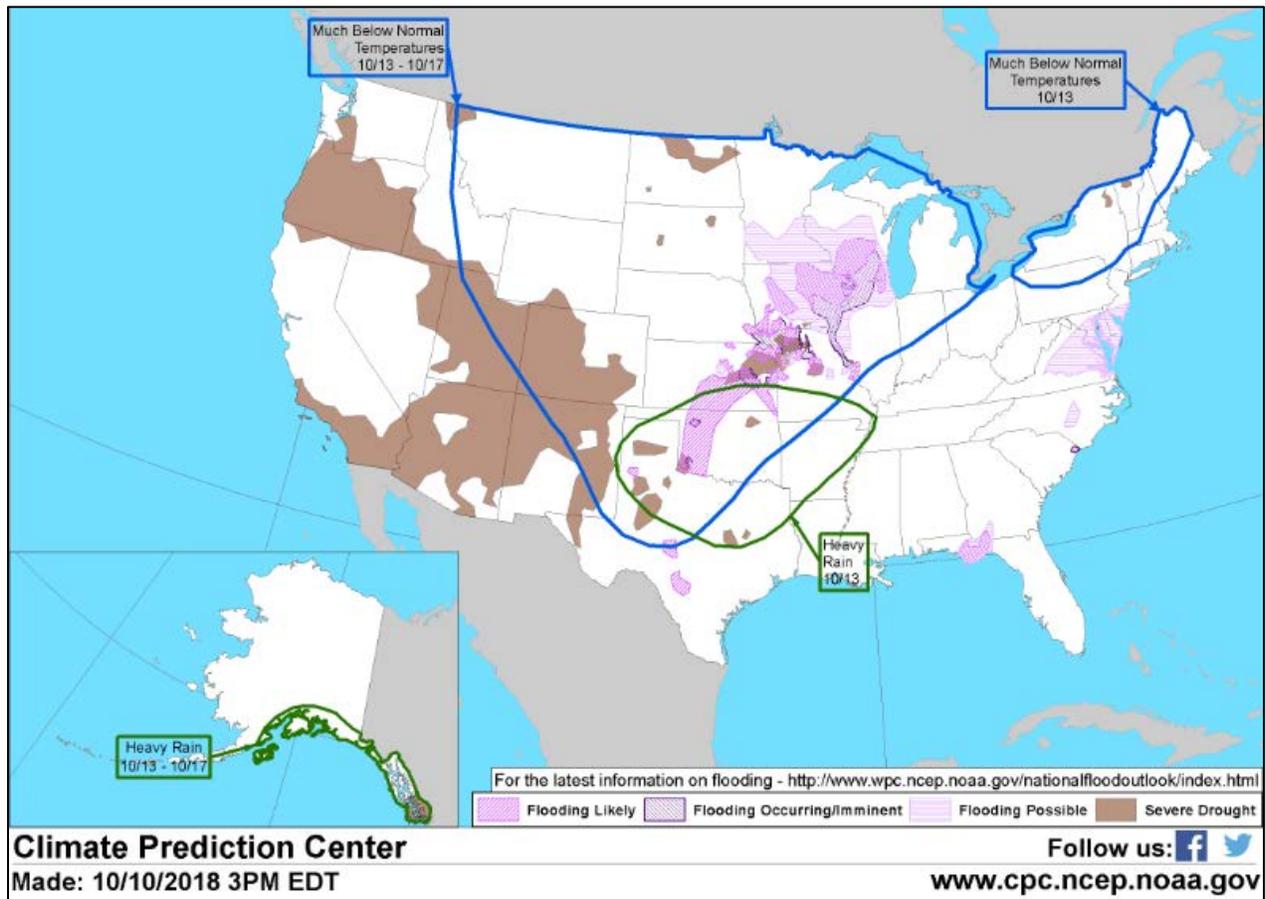
Agricultural Weather Highlights

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

National Outlook, Thursday, October 11: “The remnants of Michael will cross the southern Mid-Atlantic region through tonight before exiting the U.S. and moving over the northern Atlantic Ocean. Cool but generally favorable weather should prevail for storm recovery efforts in Michael’s wake. Meanwhile, moisture associated with the remnants of eastern Pacific Hurricane Sergio will overspread parts of the southwestern and south-central U.S. by week’s end. Cool weather will continue to dominate the nation during the next several days, except for a gradual warming trend in the Far West. The NWS 6- to 10-day outlook for October 16 – 20 calls for near- to below-normal temperatures and precipitation across most of the country. Warmer-than-normal weather will be confined to the lower Southeast and the Pacific Coast States, while wetter-than-normal conditions should be limited to the Atlantic Coast States and from Arizona to western and southern Texas.”

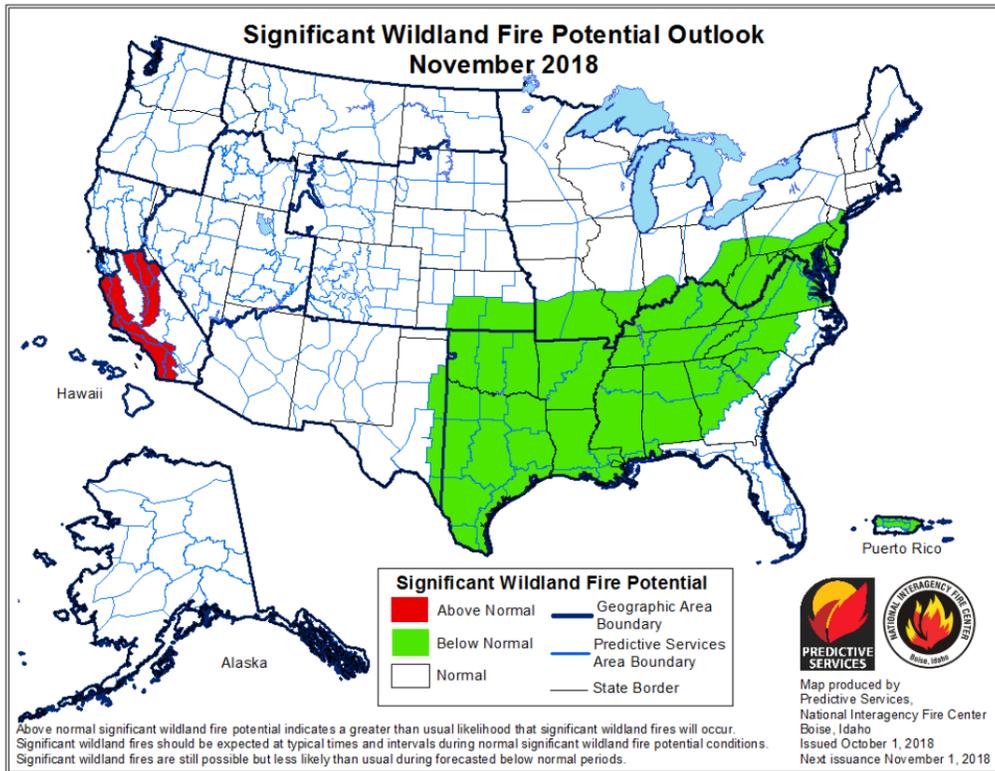
Weather Hazard Outlook October 13 – 17, 2018

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

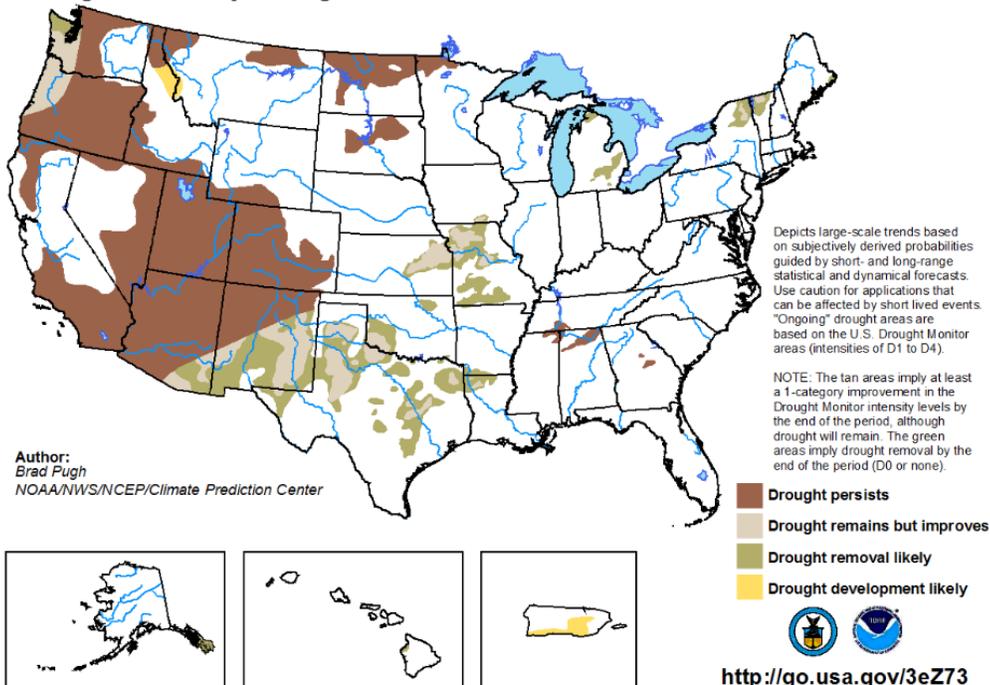
Source: National Interagency Fire Center



Seasonal Drought Outlook: [September 20 - December 31, 2018](#)

Source: National Weather Service

U.S. Seasonal Drought Outlook Valid for September 20 - December 31, 2018
Drought Tendency During the Valid Period Released September 20, 2018

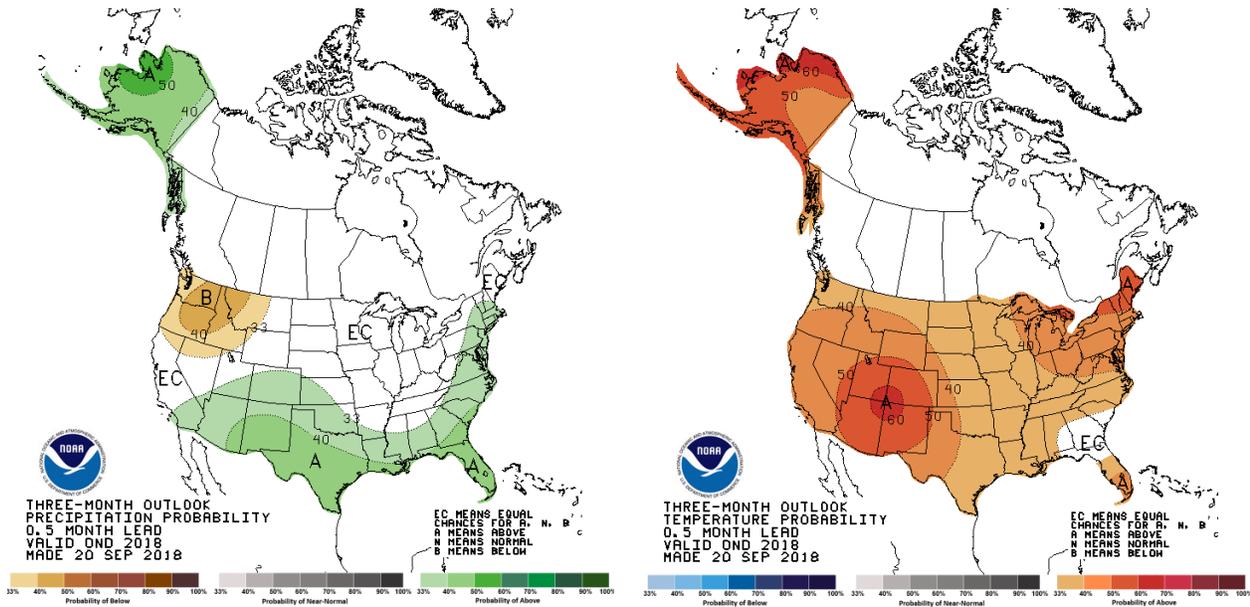


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[October-November-December \(OND\) 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](#).