

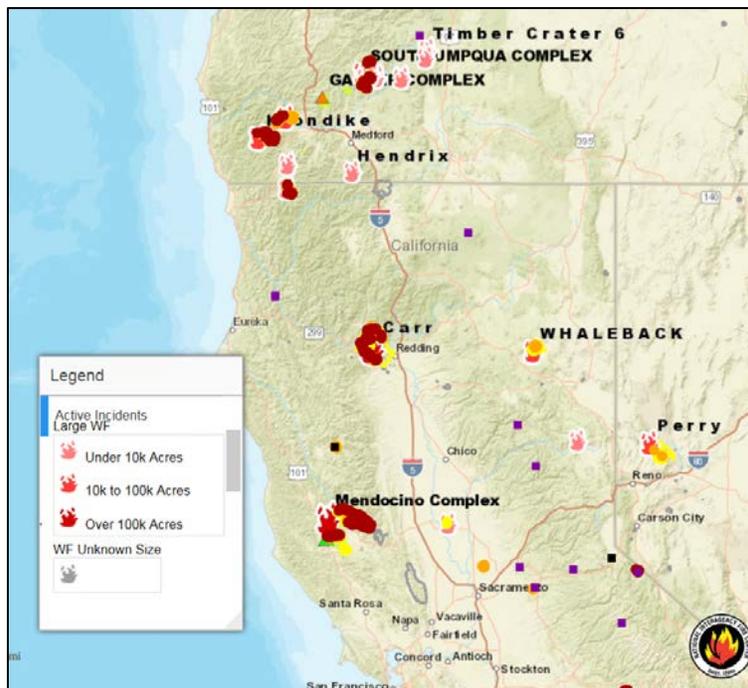
Water and Climate Update

August 2, 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	12
Temperature	6	Short- and Long-Range Outlooks.....	15
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Northern California Carr Fire grows to over 115,000 acres



The largest of several wildfires in California, the Carr fire, has grown to over 115,000 acres. More than 4,100 firefighters continue to work in 100+ degree temperatures to contain the seventh most destructive wildfire in California history. The fire is currently 35% contained, has destroyed more than 1,000 homes, and is responsible for the death of two firefighters as well as four civilians. According to the [National Interagency Fire Center](#) there are 93 active large fires across the U.S., involving 1,344,323 acres. States reporting the most fire activity include Alaska, Arizona, California, Colorado, Idaho, and Oregon (see map, page 11).

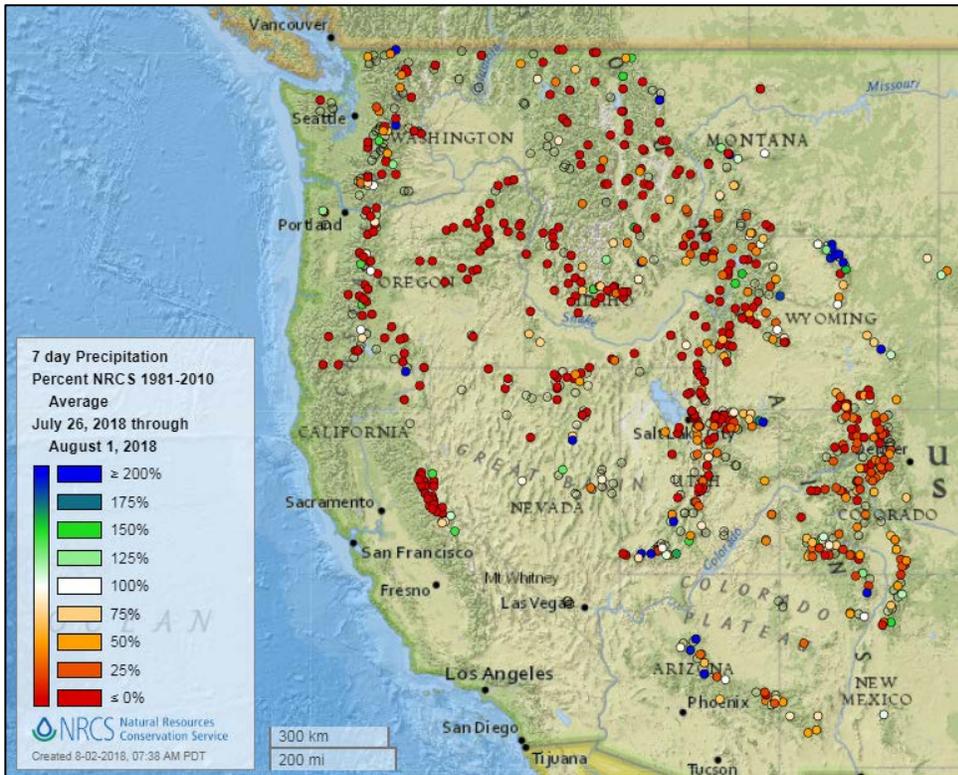
The U.S. has moved to the highest fire preparedness level (5), as domestic resources are fully committed to current wildfires, with additional help coming from Canadian counterparts. Further [international assistance](#) has been requested from Australia and New Zealand.

Related:

- [More than 1,000 homes destroyed as Carr Fire rages on in California](#) USA Today
- [Carr Fire becomes 7th most destructive fire in state history](#) – ABC7 San Francisco
- [Lost colleagues, exhausting work and 'hotter than hell': On the front lines of the Redding fire](#) – LA Times
- [National Wildfire Preparedness Moves to Highest Level \(July 27, 2018\)](#) – NIFC

Precipitation

Last 7 Days, NRCS SNOTEL Network

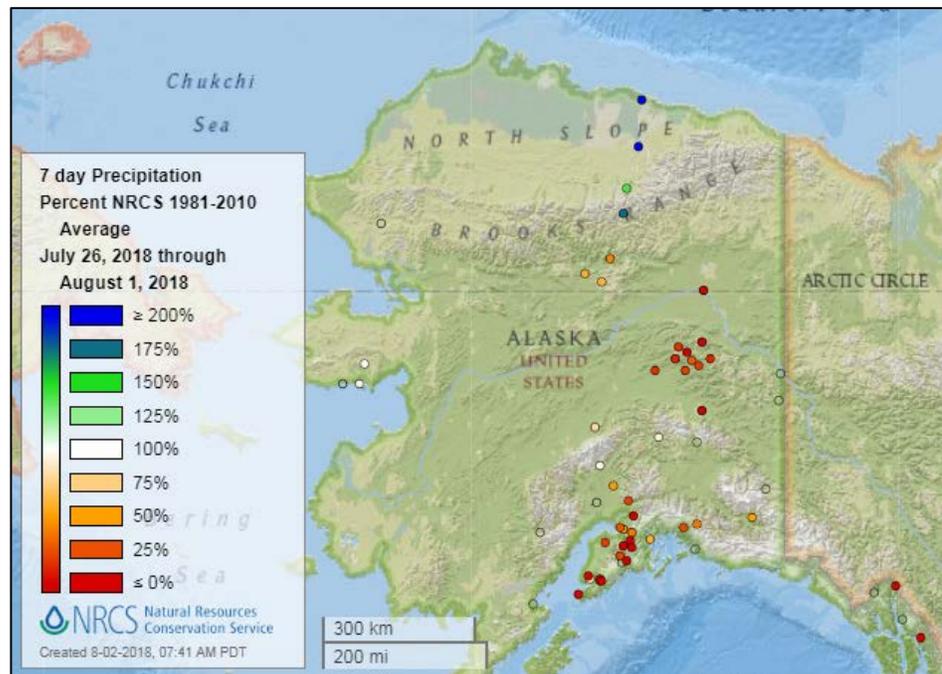


[7-day precipitation percent of average map](#)

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](#)



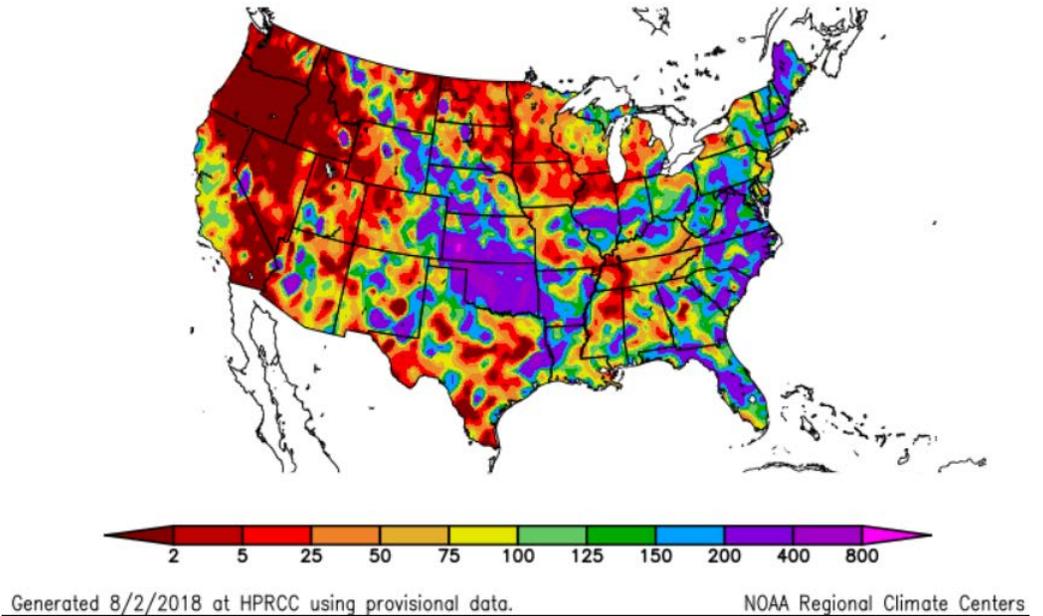
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
7/26/2018 – 8/1/2018



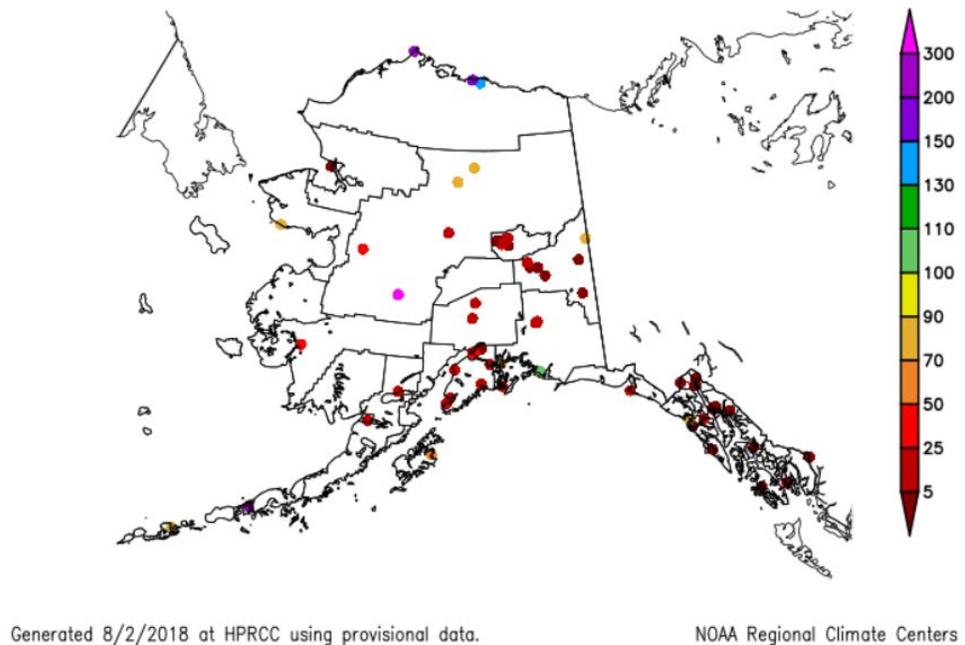
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

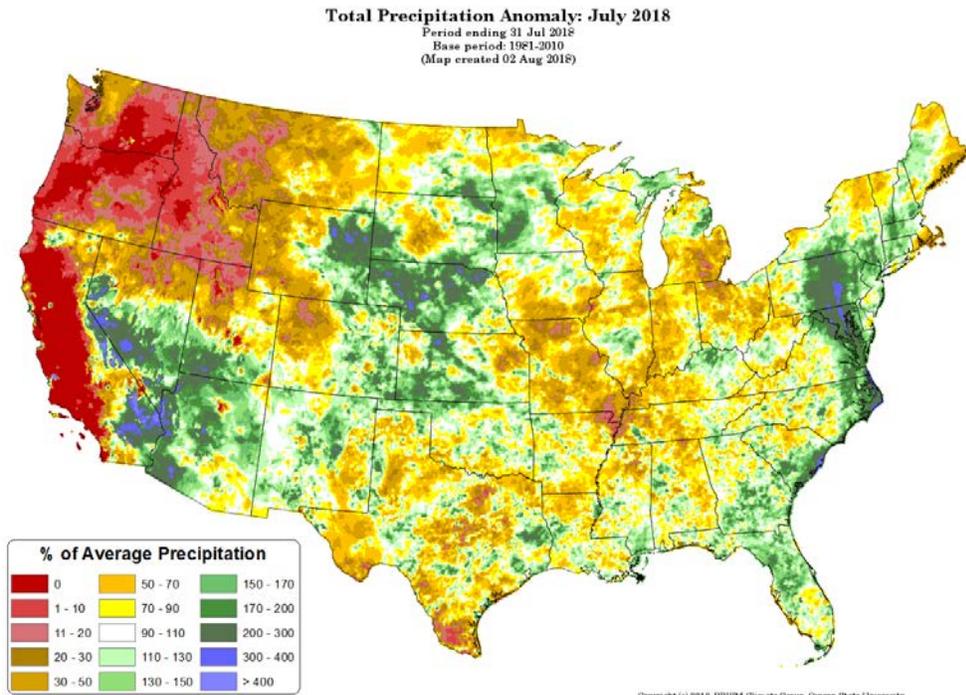
See also: [7-day total precipitation values \(inches\) map](#)

Percent of Normal Precipitation (%)
7/26/2018 – 8/1/2018



Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

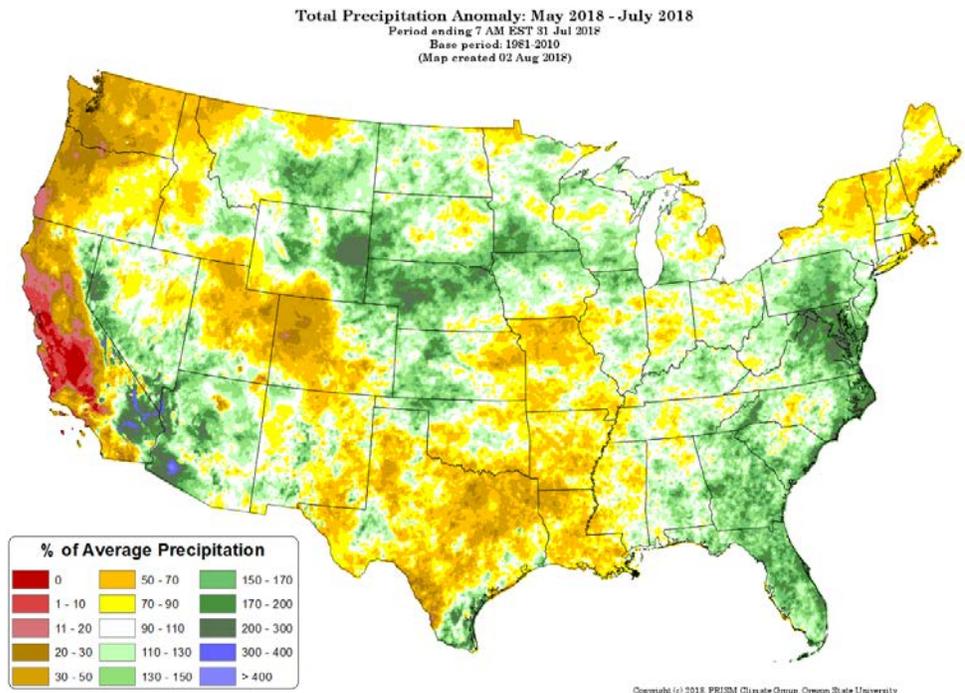


[Previous month national total precipitation percent of average map](#)

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

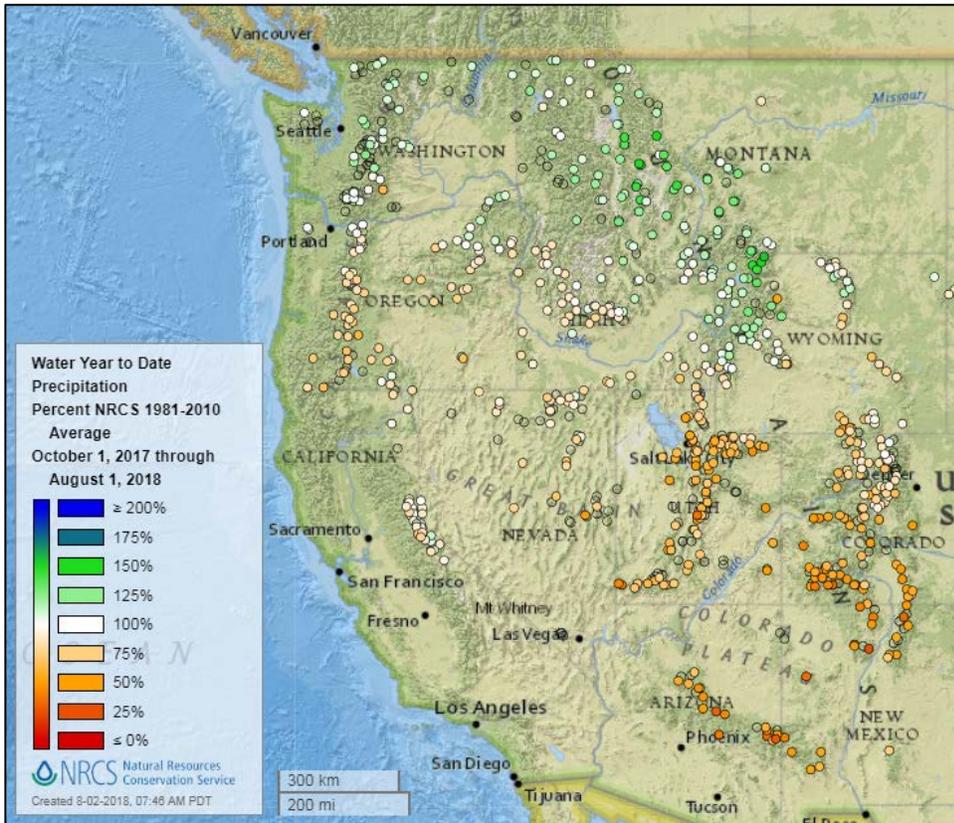
Source: PRISM

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



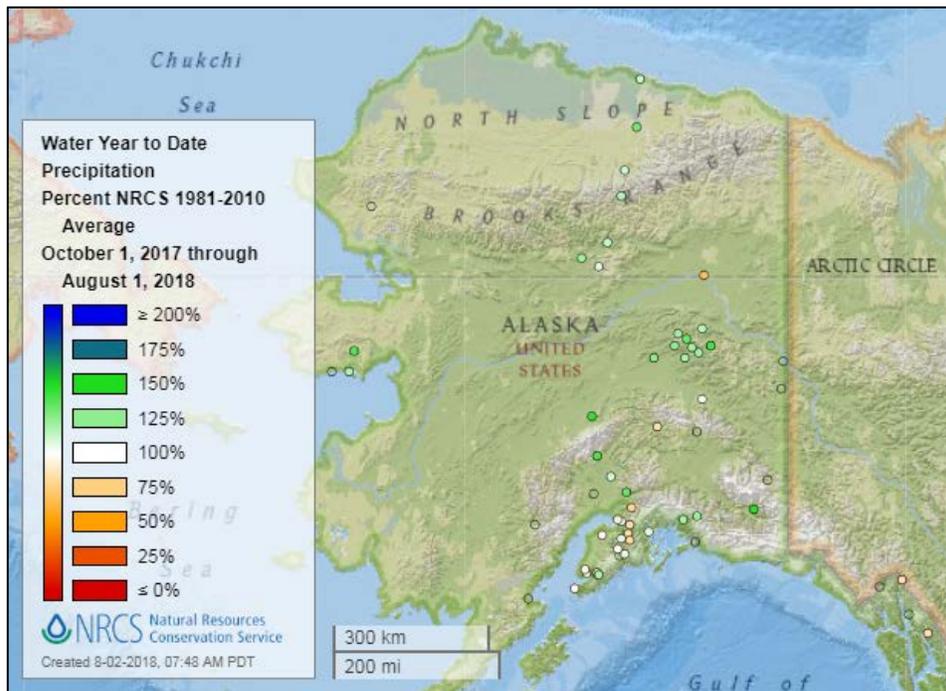
Copyright (c) 2018, PRISM Climate Group, Oregon State University

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 \(inches\) map](#)



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

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

Temperature

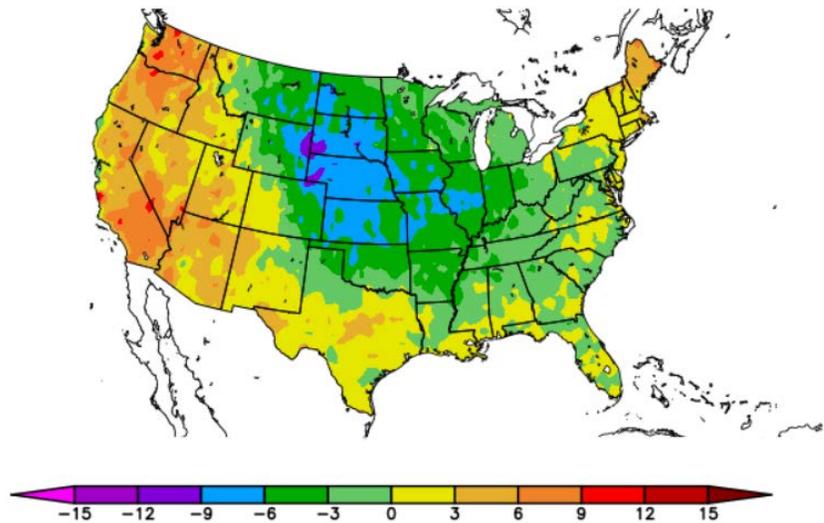
Last 7 Days, National Weather Service (NWS) Networks

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)
7/26/2018 – 8/1/2018



Generated 8/2/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

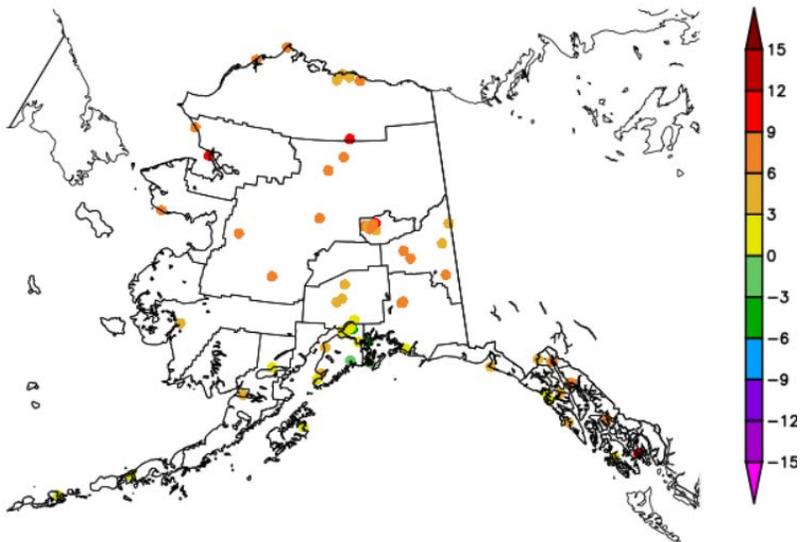
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
7/26/2018 – 8/1/2018



Generated 8/2/2018 at HPRCC using provisional data.

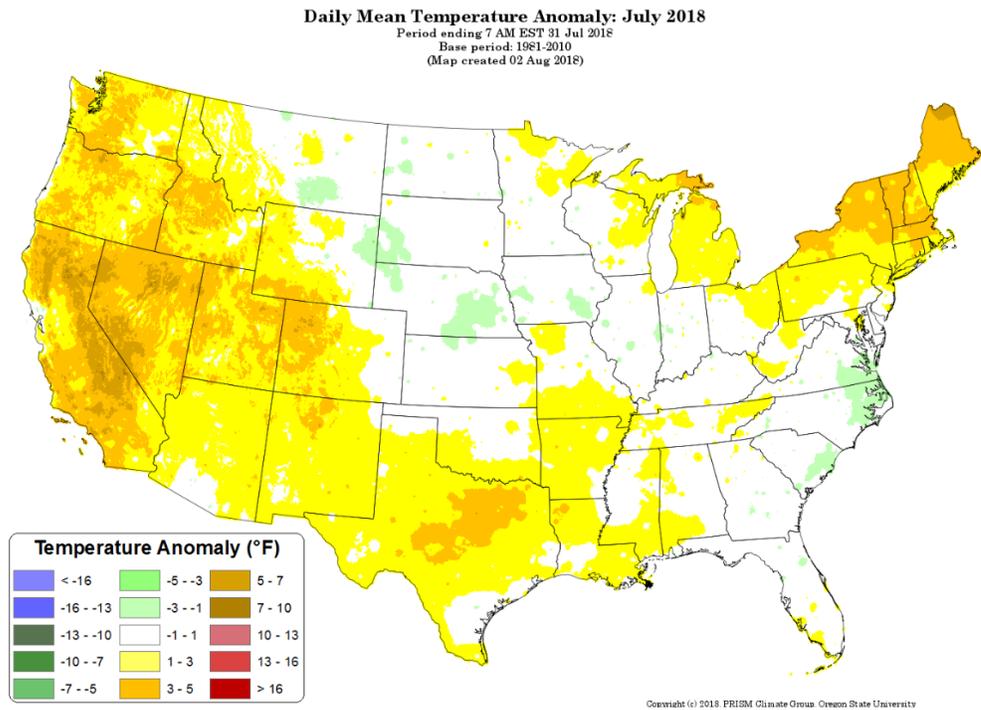
NOAA Regional Climate Centers

Water and Climate Update

Previous Month, All Available Data Including SNOTEL and NWS Networks

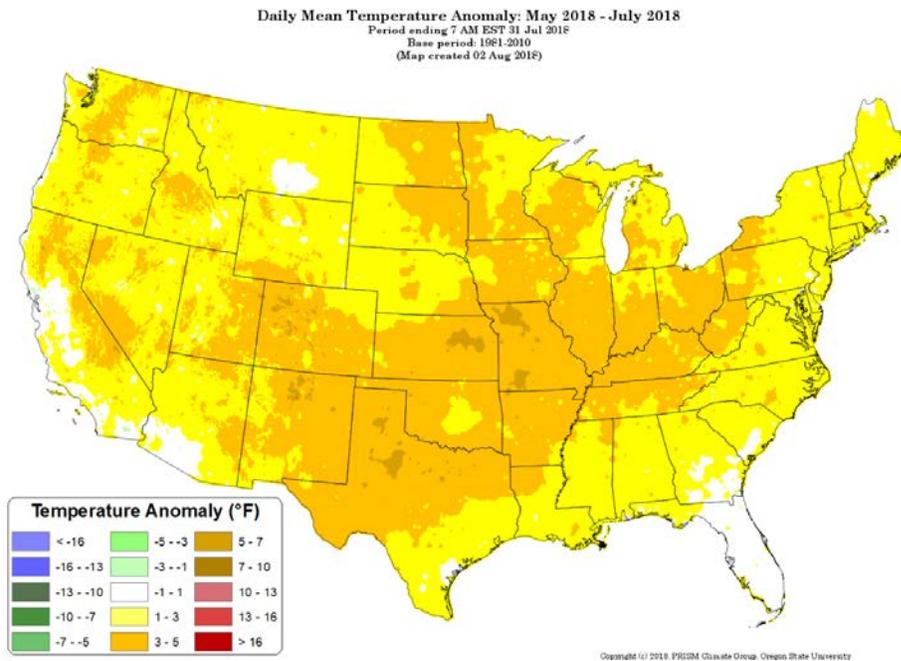
Source: PRISM

[Previous month national daily mean temperature anomaly map](#)



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

Source: PRISM

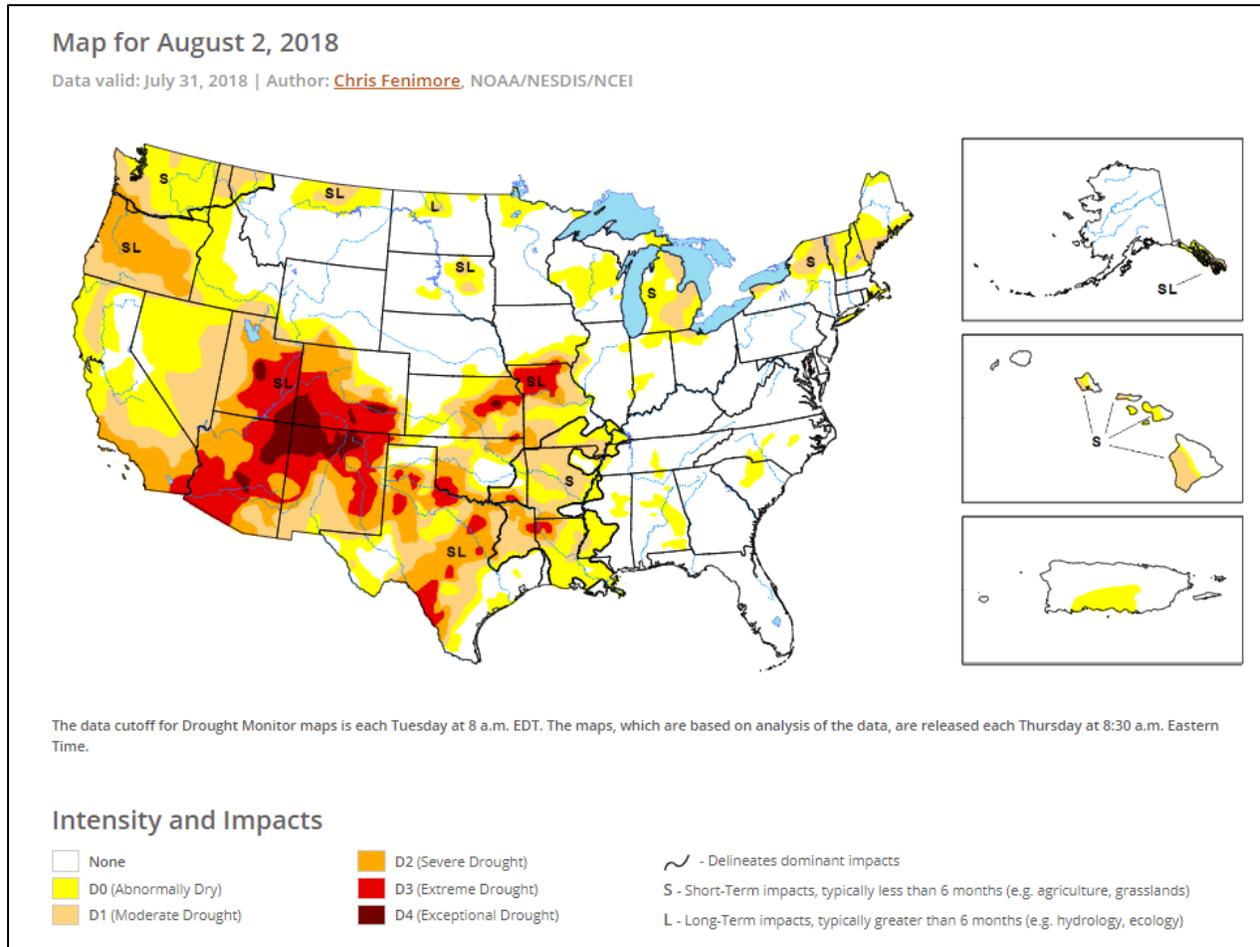


[May through July 2018 daily mean temperature anomaly map](#)

Drought

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

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



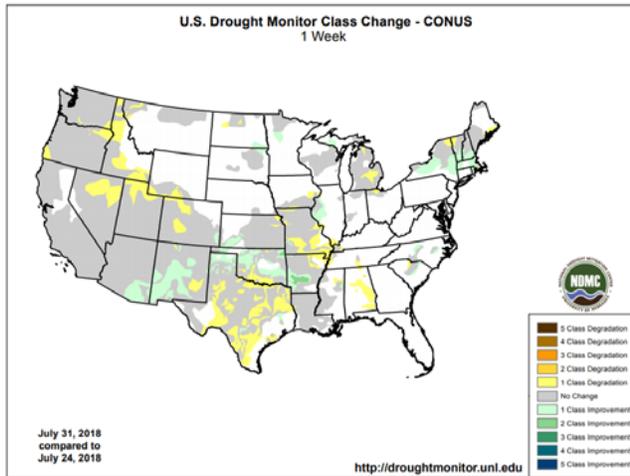
Current [National Drought Summary](#), August 2, 2018

Author: Chris Fenimore, NOAA/NESDIS/NCEI

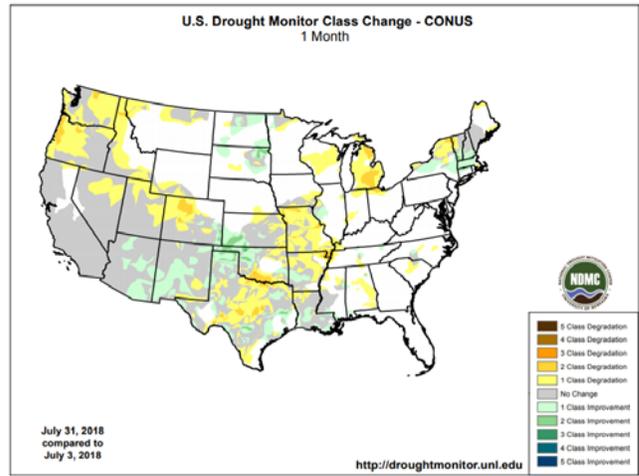
“Early in the drought week, moderate precipitation fell along the East Coast with the heaviest rains falling in the eastern Carolinas and central Pennsylvania. Much-needed rains fell in a swath of area covering eastern Wyoming, much of Nebraska, Kansas, and Oklahoma, eastern Colorado and the majority of New Mexico. The northern Plains, Midwest, and South saw lighter precipitation amounts. Central and south Texas saw little to no precipitation during the week while the dry pattern continued for much of the West. For the month of July, preliminary statewide temperature data suggest much of the U.S. was warmer than average. The West, Southwest, South, and Northeast were among the warmest third of historical records which date back 124 years. Total precipitation amounts for the month of July were below average for much of the Midwest and Northwest. Also during the month of July, above average precipitation fell in the Mid-Atlantic States to Northeast, Southwest and parts of the High Plains.”

Changes in Drought Monitor Categories over Time

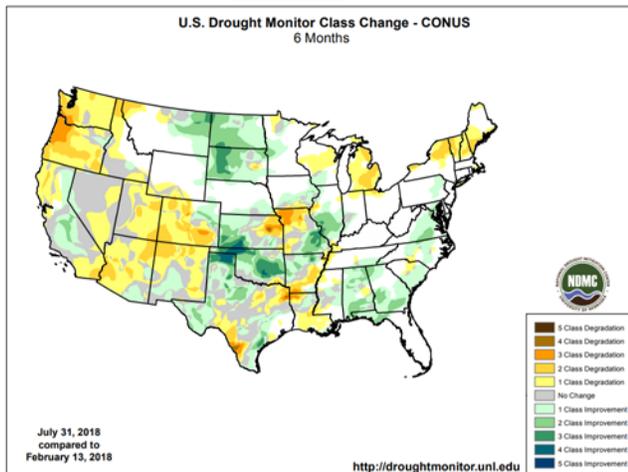
1 Week



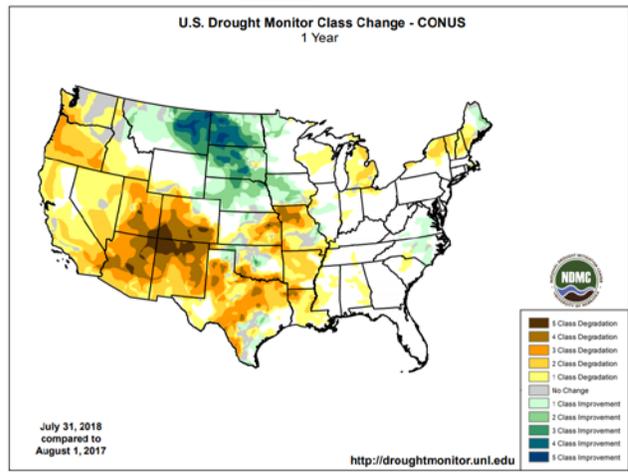
1 Month



6 Months



1 Year



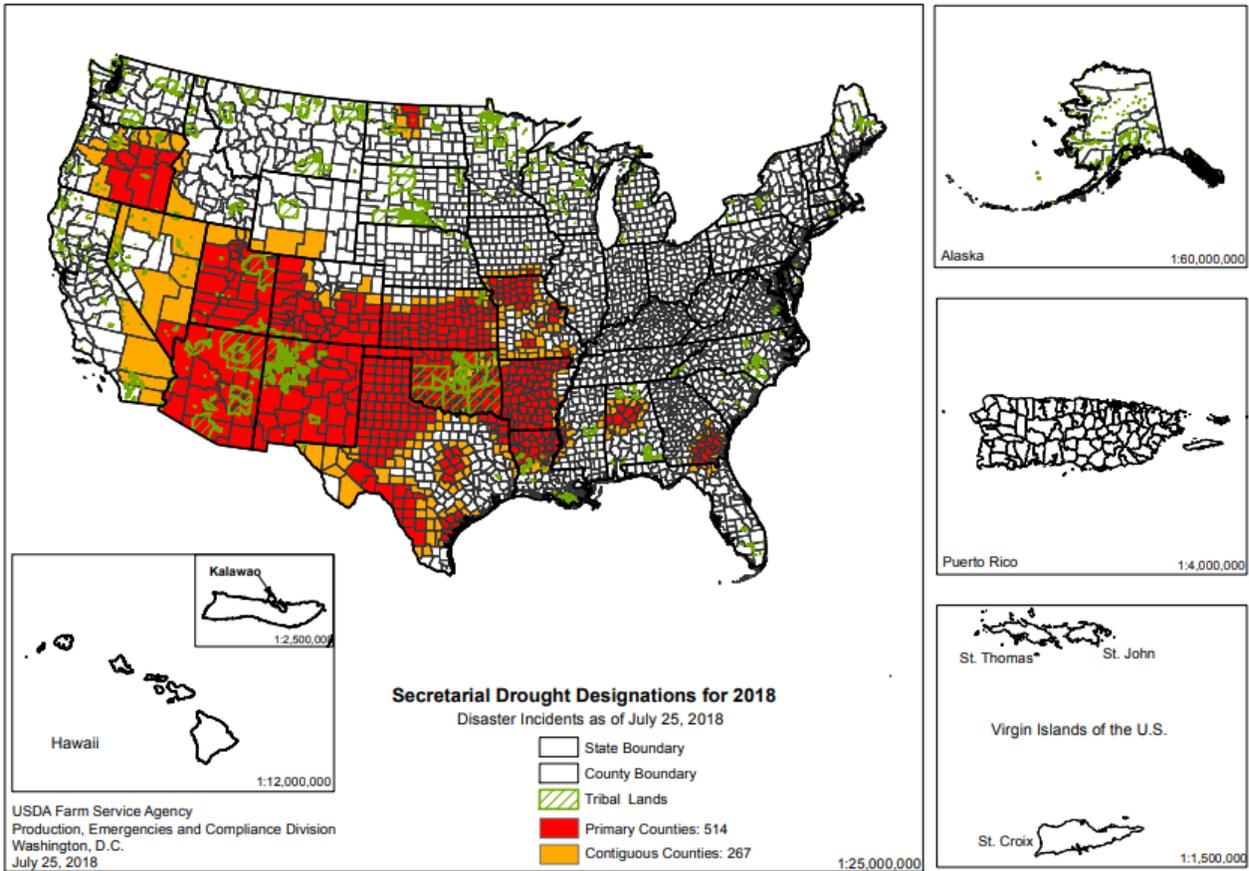
Changes in drought conditions over the last 12 months

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](#)

2018 Secretarial Drought Designations - All Drought



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



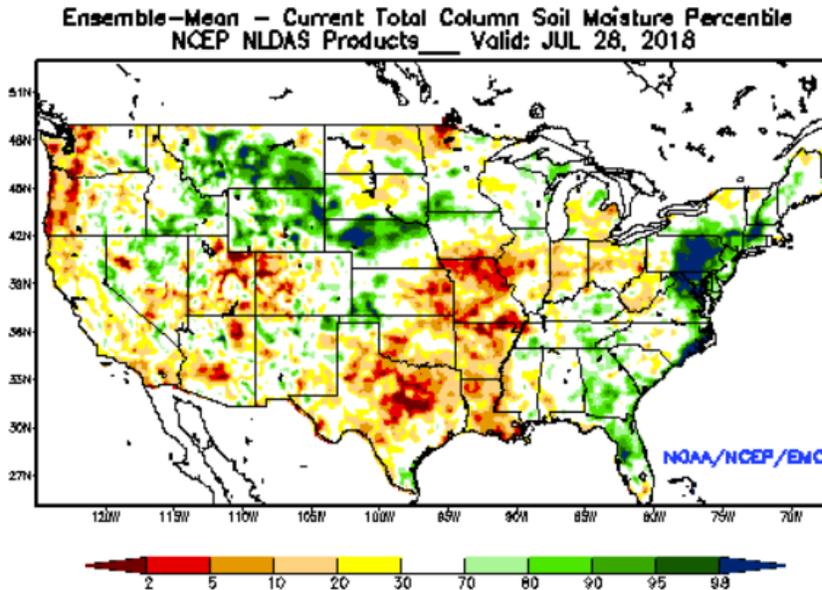
Highlighted Wildfire Resources

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

Other Climatic and Water Supply Indicators

Soil Moisture

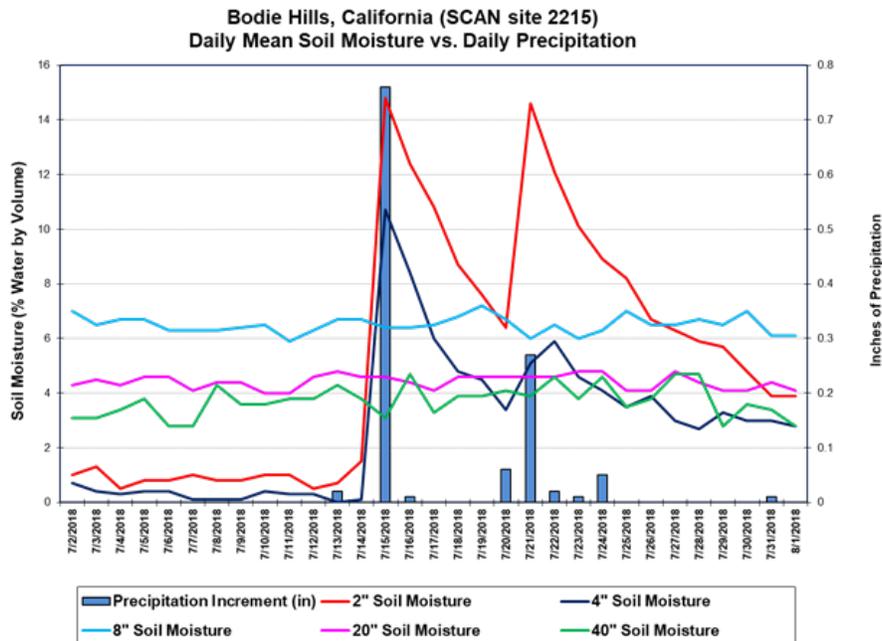
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of July 28, 2018.

Soil Moisture Data

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



This graph shows the precipitation and soil moisture for the last 30 days at the [Bodie Hills SCAN site 2215](#) in California. The largest precipitation event occurred on July 15 where accumulated precipitation totaled 0.76 inches. Following this event, the 2- and 4-inch sensors showed a significant increase in soil moisture levels.

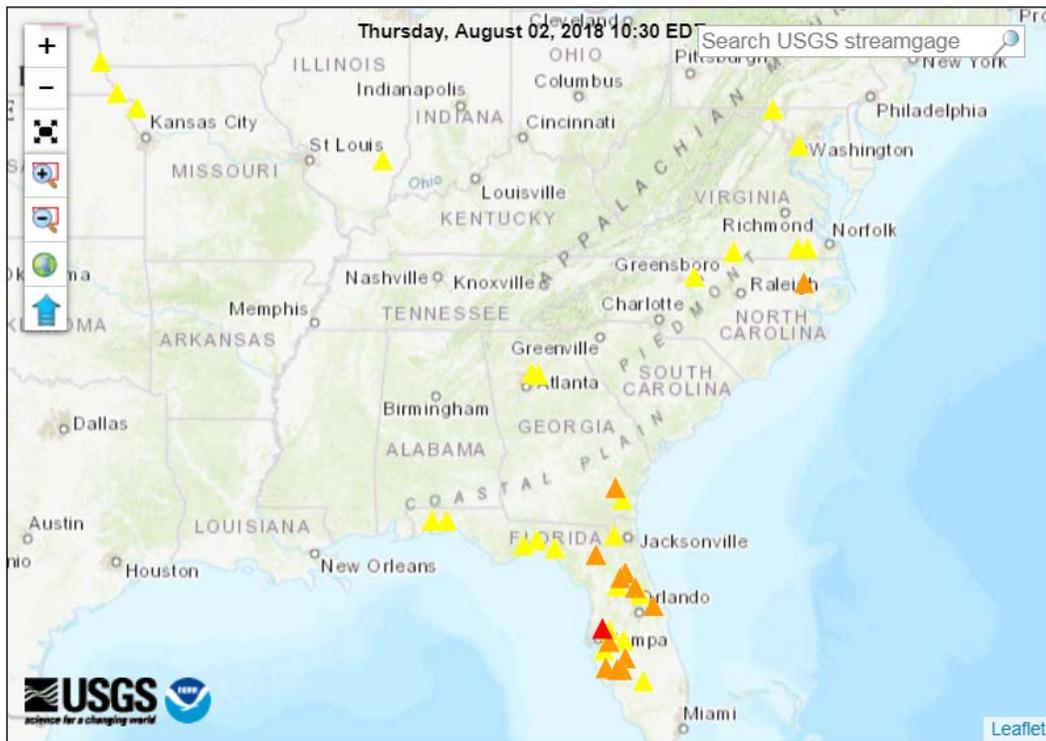
Soil Moisture Data Portals

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

Streamflow

Source: USGS

Map of flood and high flow conditions



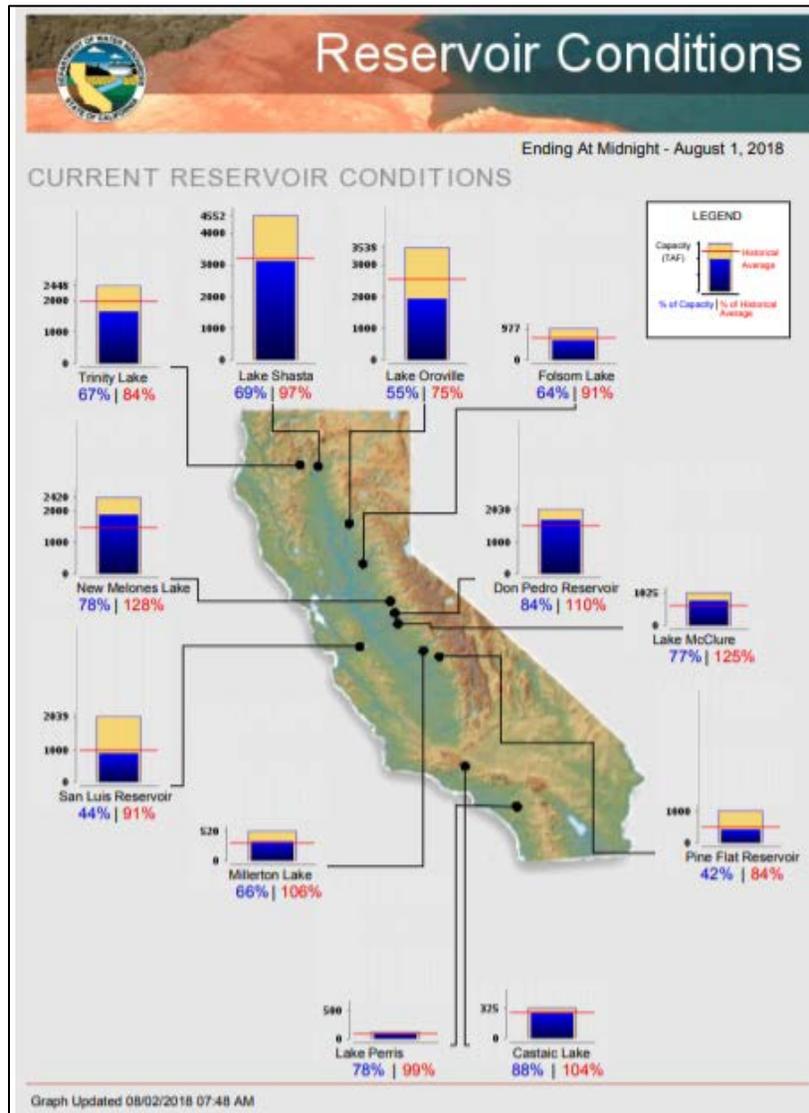
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			△ Streamgage with flood stage		○ Streamgage without flood stage	

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

Reservoir Storage

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

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](#)

Short- and Long-Range Outlooks

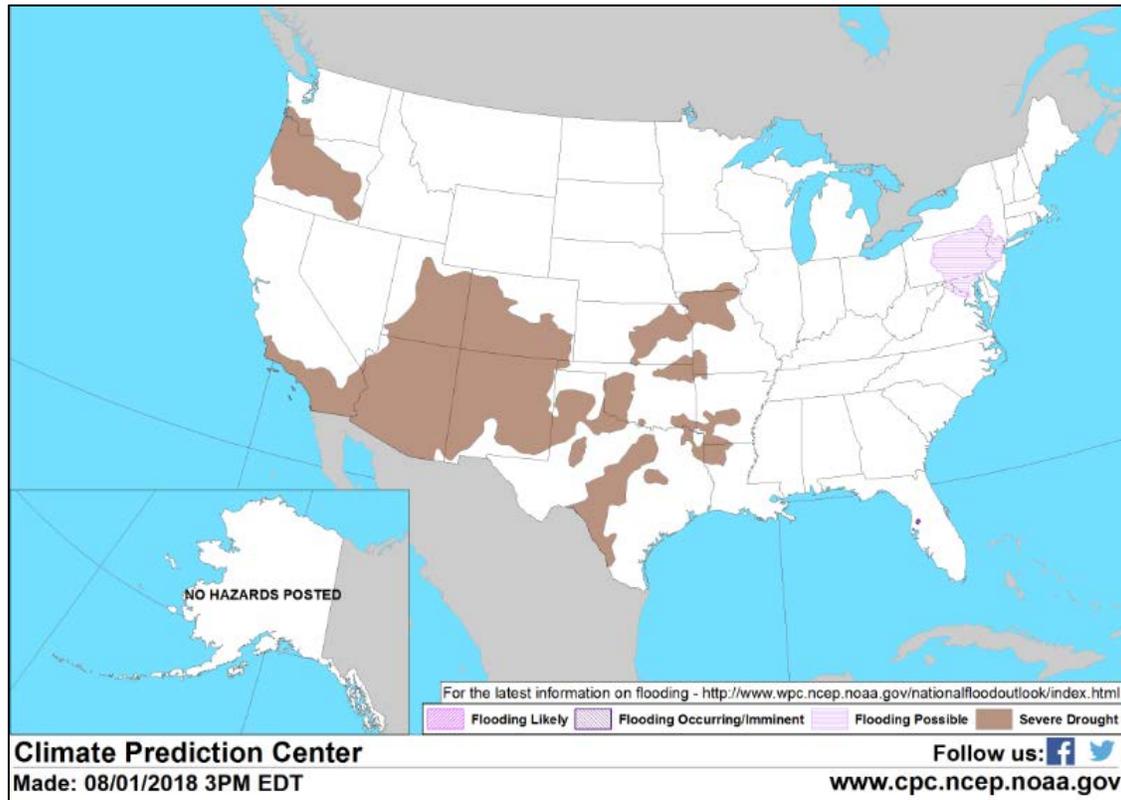
Agricultural Weather Highlights

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

[National Outlook, Thursday, August 2:](#) “An impressive tropical moisture plume in the eastern U.S. will gradually shift toward the Atlantic Seaboard. Nevertheless, additional rainfall could total 1 to 3 inches or more from the Gulf Coast to New England. Meanwhile, weekend rainfall in the upper Midwest could reach 1 to 2 inches, with showers lingering into early next week. In contrast, mostly dry weather will prevail during the next 5 days in California and the Northwest, along with an area covering most of Arkansas, Oklahoma, and Texas. The NWS 6- to 10-day outlook for August 7 – 11 calls for the likelihood of near- to above-normal temperatures nationwide. Meanwhile, near- to below-normal rainfall across southern Florida, as well as the Rockies, Plains, and upper Midwest, should contrast with wetter-than-normal weather in the Pacific Northwest, Desert Southwest, and most areas east of a line from Michigan to eastern Texas.”

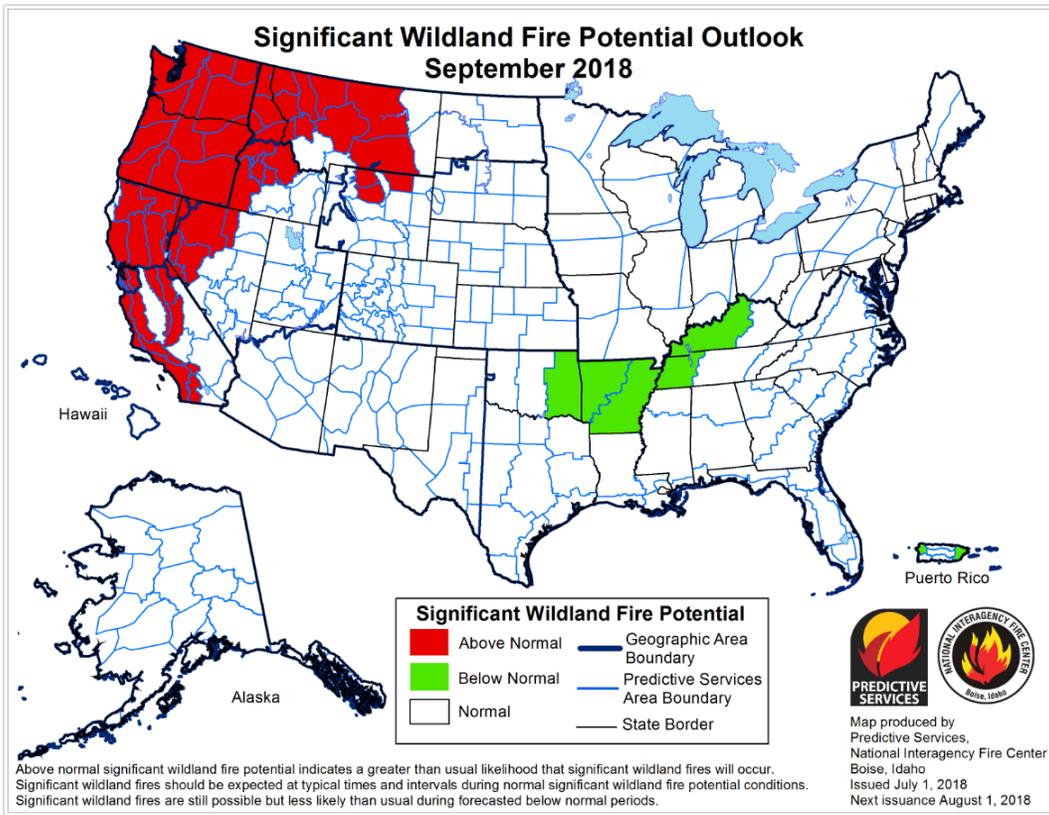
Weather Hazard Outlook [August 4 – 8, 2018](#)

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

Source: National Interagency Fire Center

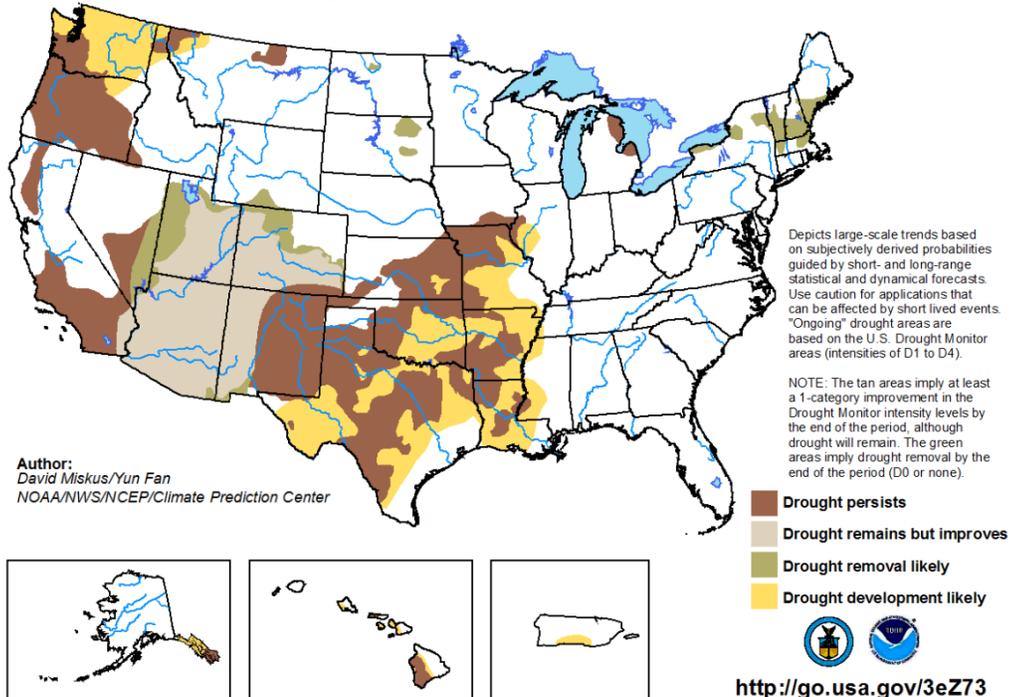


Seasonal Drought Outlook: [July 19 – October 31, 2018](#)

Source: National Weather Service

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

Valid for July 19 - October 31, 2018
Released July 19, 2018

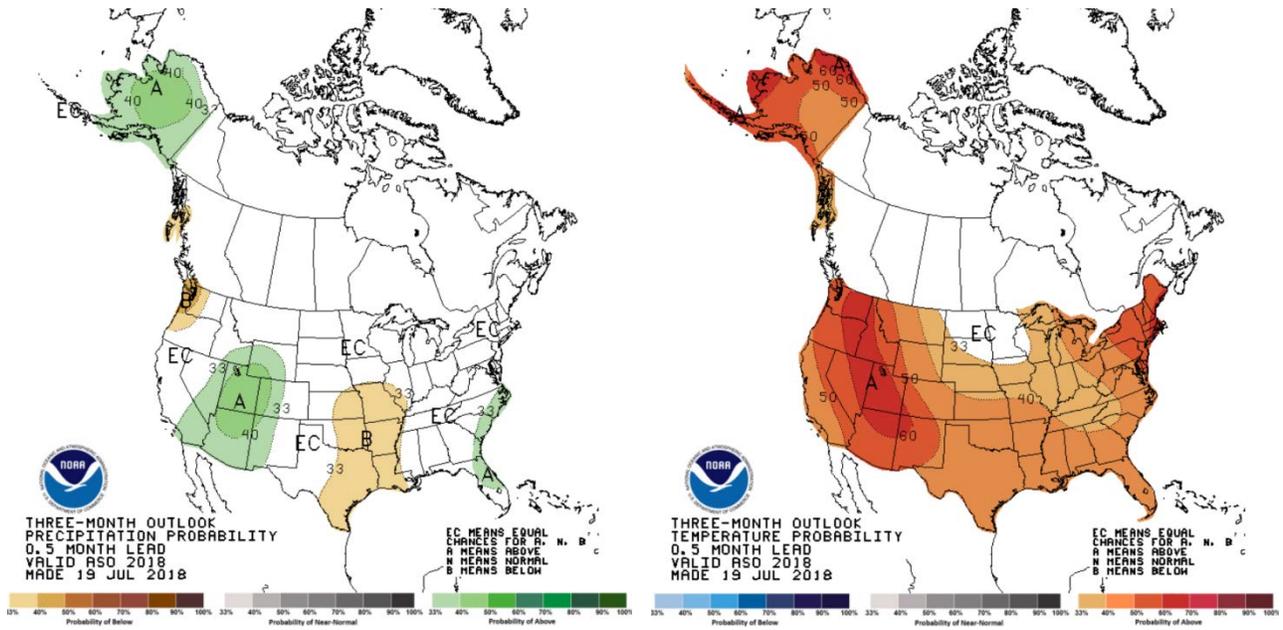


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[August-September-October \(ASO\) 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](#).