

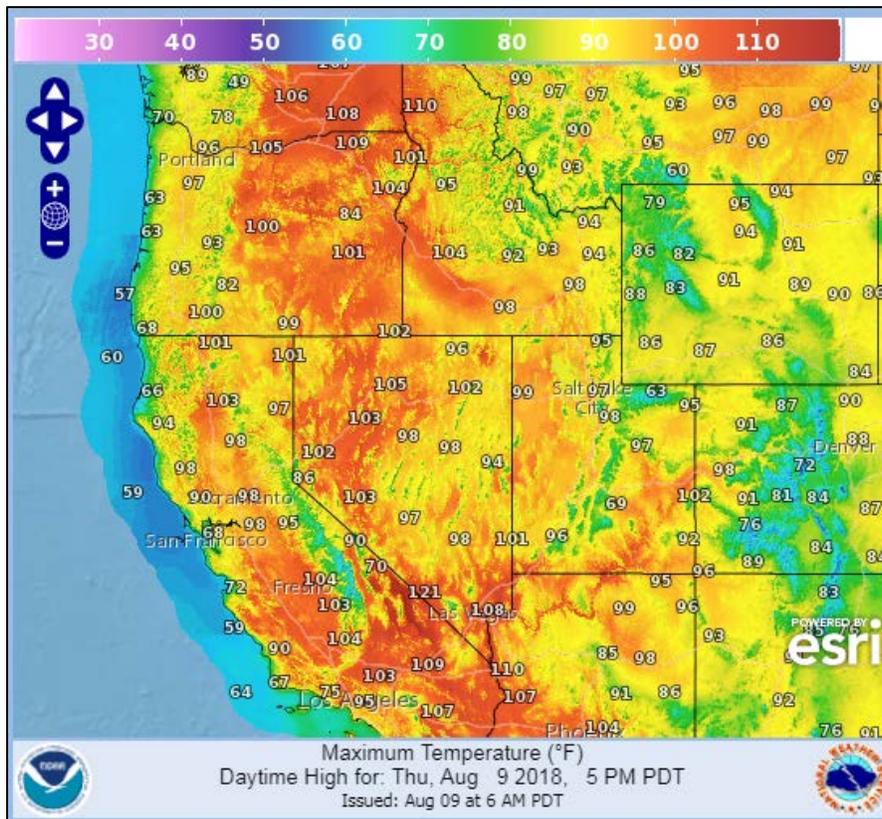
Water and Climate Update

August 9, 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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Extreme heat grips the West



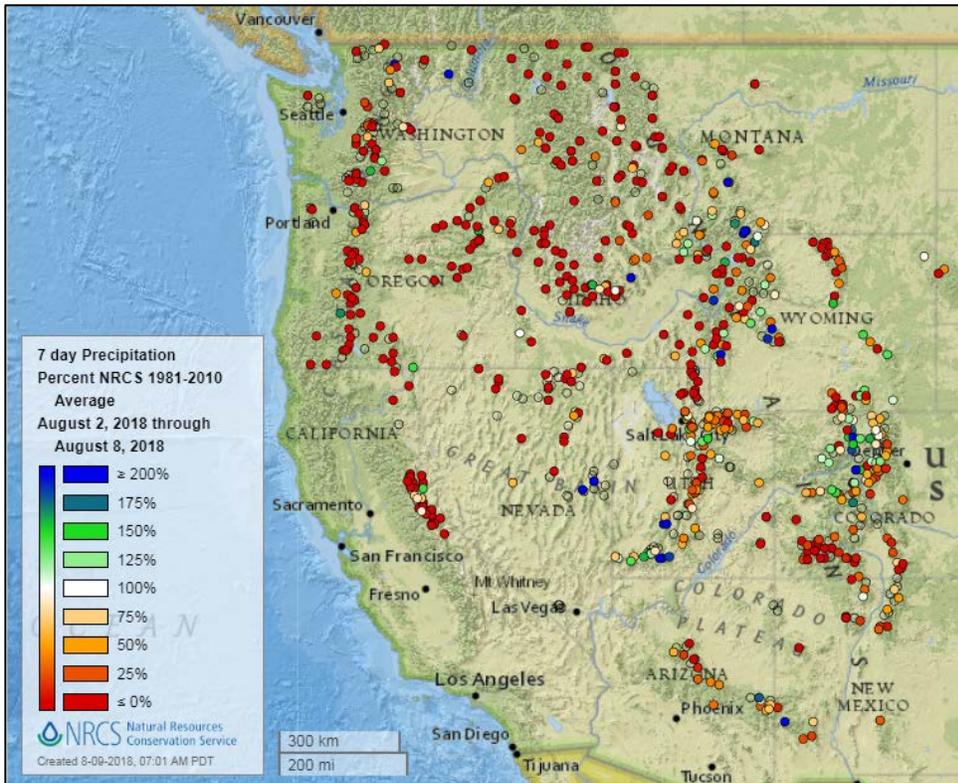
Temperatures are soaring in much of the West this week. The National Weather Service graphical [temperature forecast map](#) shows triple-digit temperatures from the northern Cascades southward through California and into the Southwest. Hot and dry conditions, poor air quality, and elevated to critical fire threats are expected to continue in the region.

Related:

- [Heat continues on both coasts as fire conditions worsen in West](#) – ABC News
- [Waters off Southern California coasts reach record high temperatures](#) – NBC News
- [Containment of the Mendocino Complex fire depends on weather conditions](#) – CBS News
- [Battling 18 blazes, California may face worst fire season](#) – ABC News
- [California had its hottest month on record. Death Valley had world's hottest month ever](#) – USA Today

Precipitation

Last 7 Days, NRCS SNOTEL Network

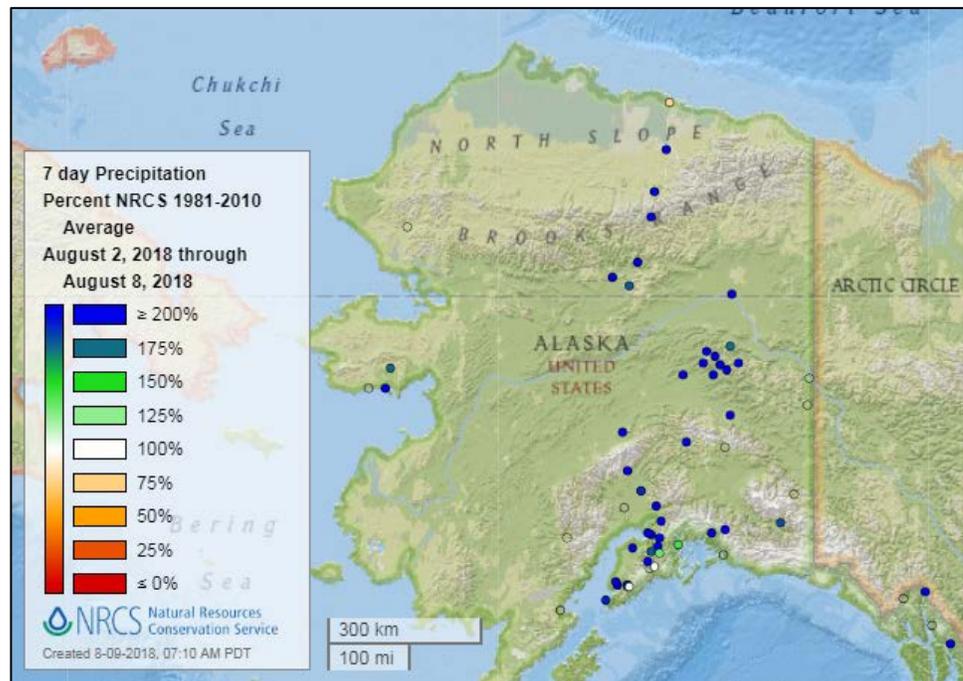


[7-day precipitation percent of average map](#)

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](#)



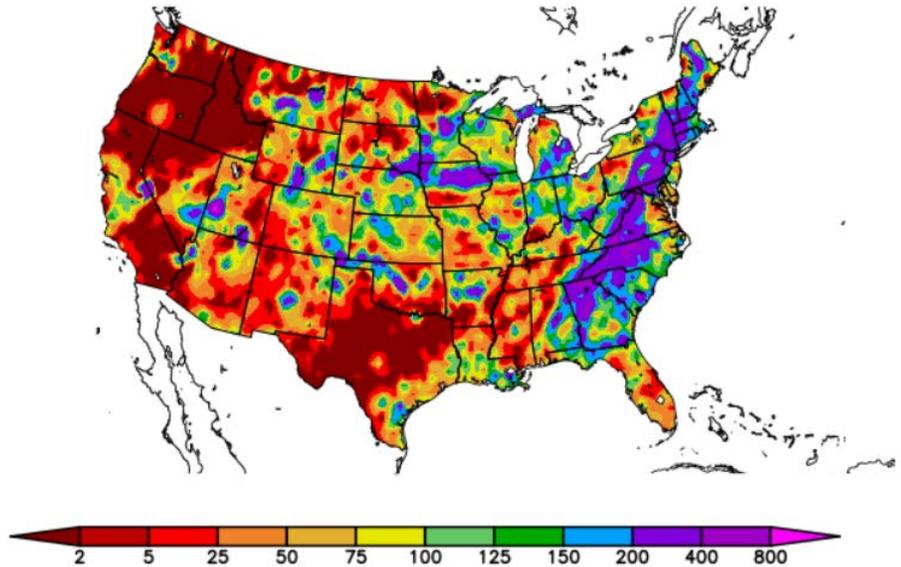
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
8/2/2018 – 8/8/2018



Generated 8/9/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

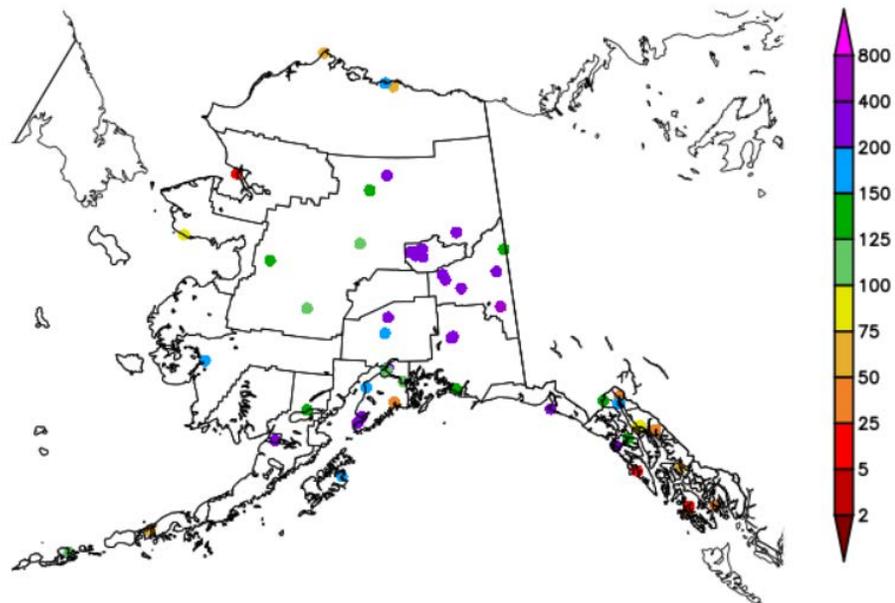
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
8/2/2018 – 8/8/2018



Generated 8/9/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

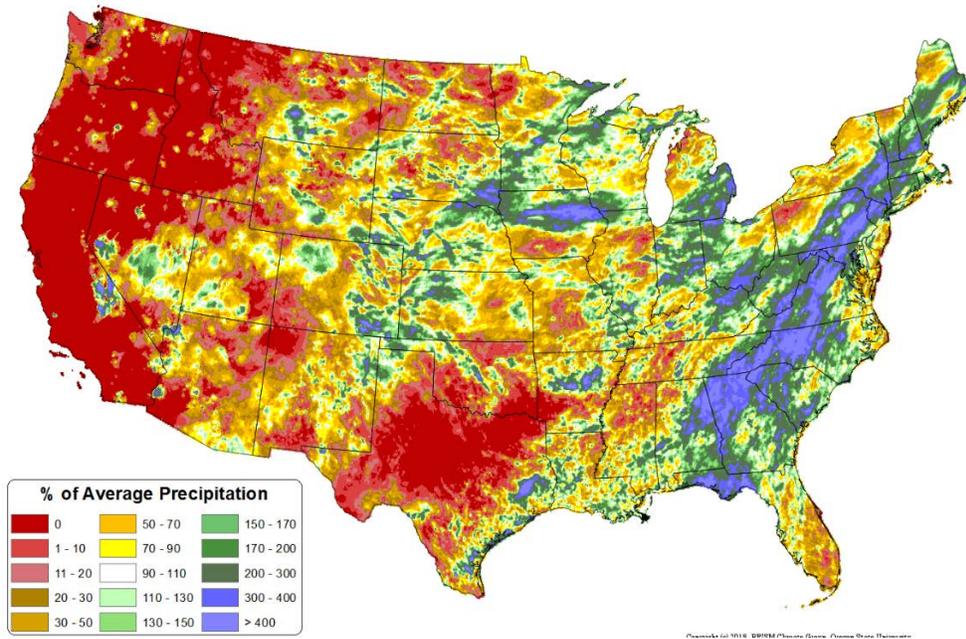
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 August 2018 - 08 August 2018
Period ending 7 AM EST 08 Aug 2018
Base period: 1981-2010
(Map created 09 Aug 2018)

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

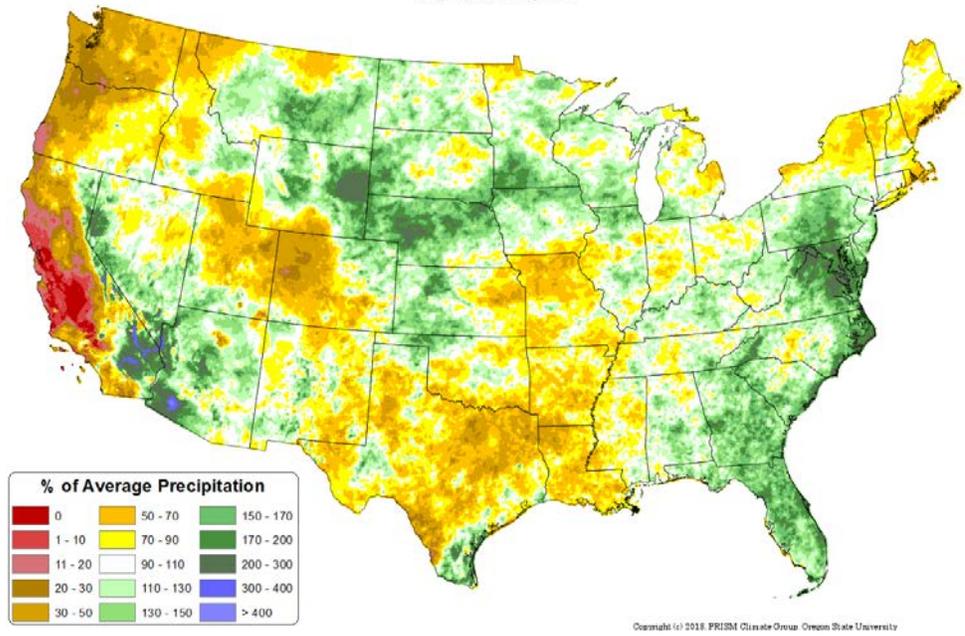


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

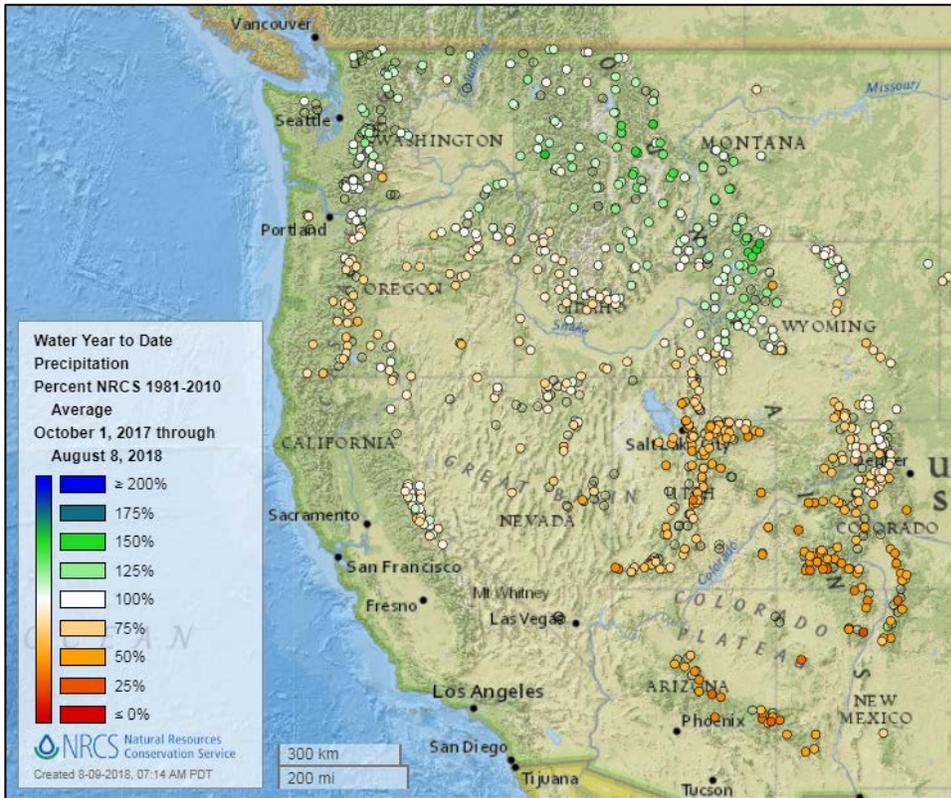
Source: PRISM

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

Total Precipitation Anomaly: May 2018 - July 2018
Period ending 7 AM EST 31 Jul 2018
Base period: 1981-2010
(Map created 02 Aug 2018)

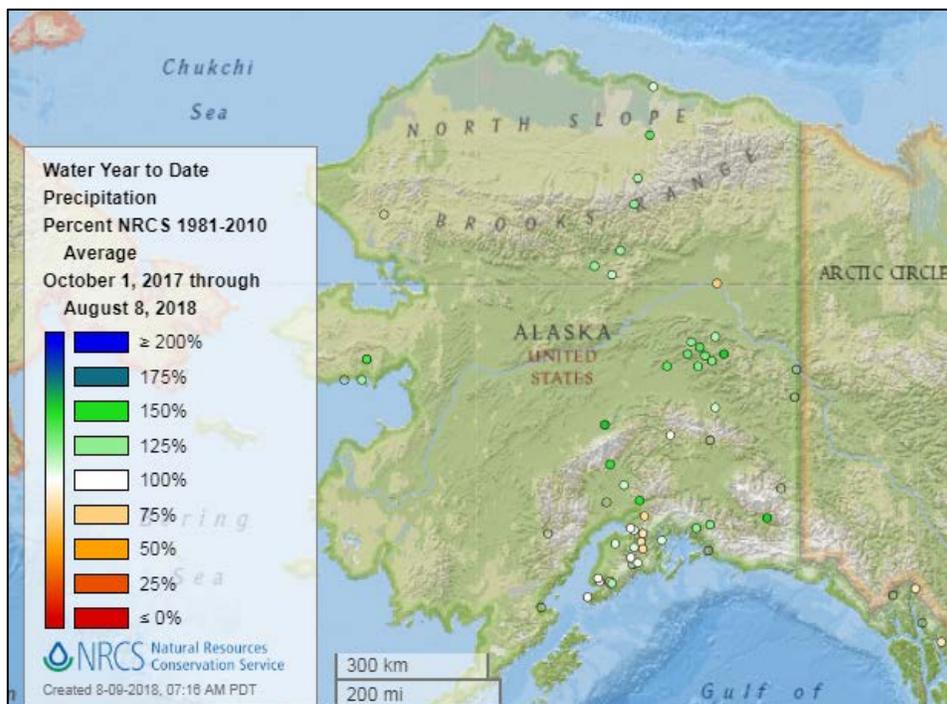


Water Year-to-Date, NRCS SNOTEL Network



[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

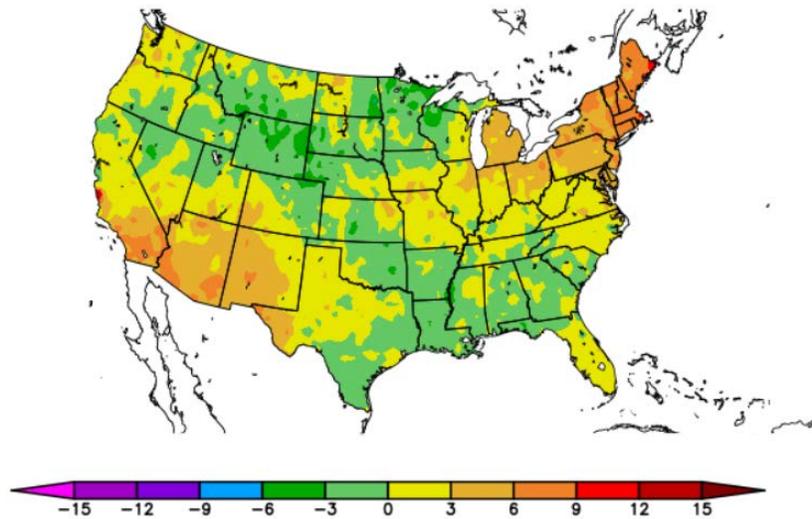
Last 7 Days, National Weather Service (NWS) Networks

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)
8/2/2018 – 8/8/2018



Generated 8/9/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

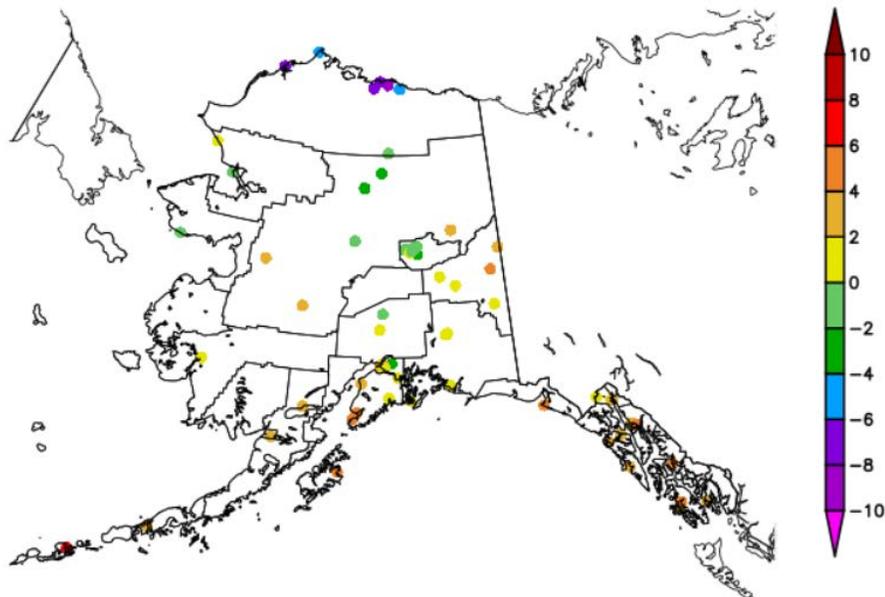
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
8/2/2018 – 8/8/2018



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NOAA Regional Climate Centers

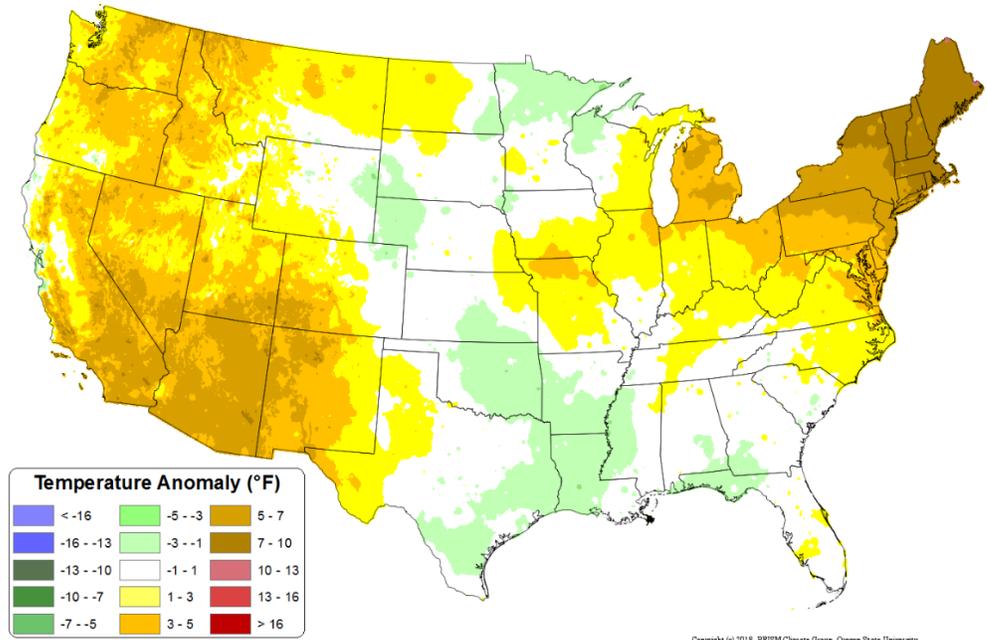
Water and Climate Update

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

Source: PRISM

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

Daily Mean Temperature Anomaly: 01 August 2018 - 08 August 2018
Period ending 7 AM EST 08 Aug 2018
Base period: 1981-2010
(Map created 09 Aug 2018)

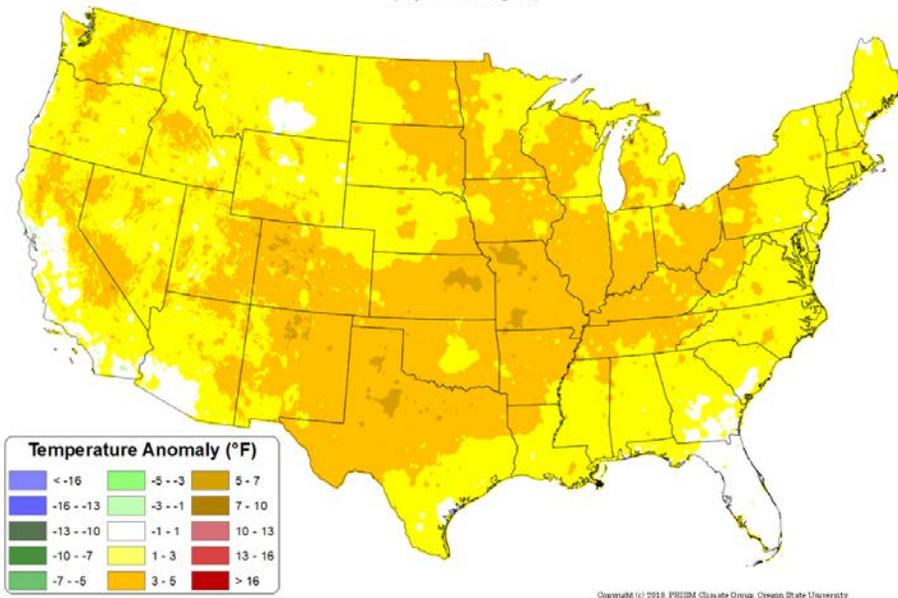


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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

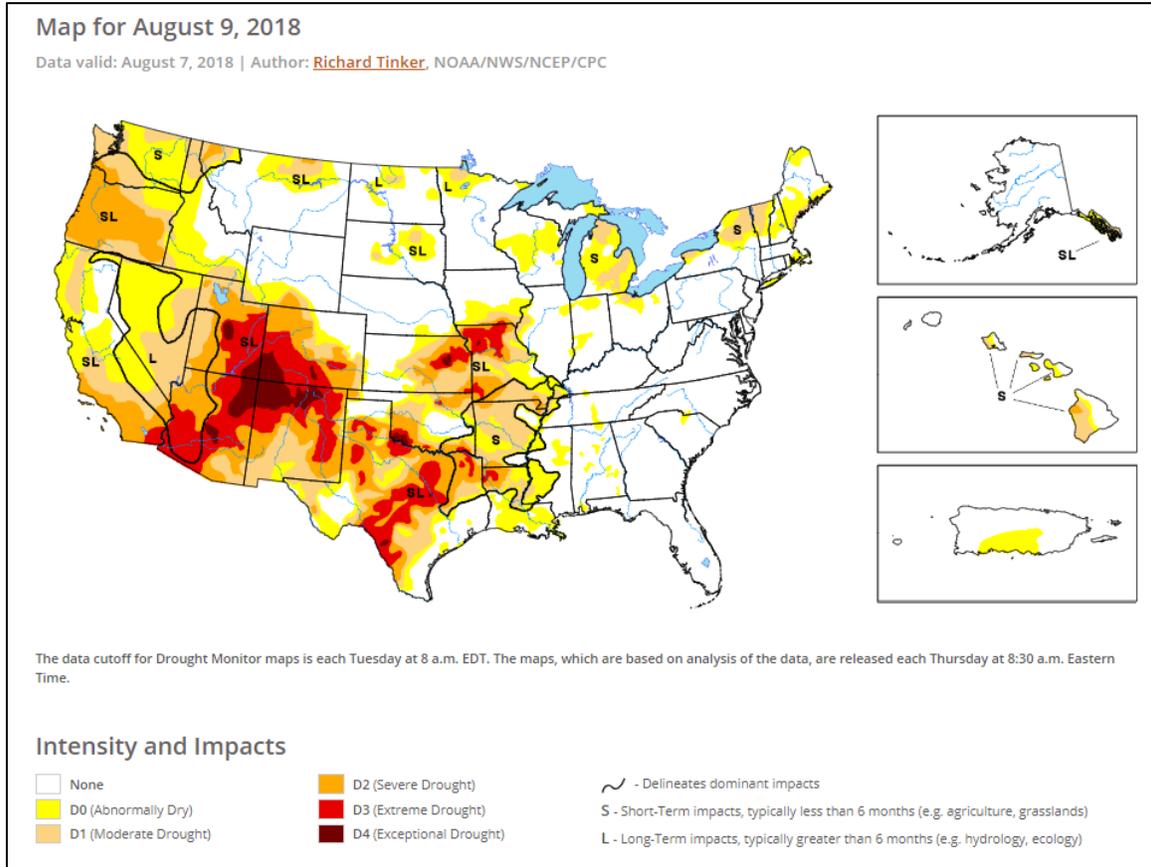
Daily Mean Temperature Anomaly: May 2018 - July 2018
Period ending 7 AM EST 31 Jul 2018
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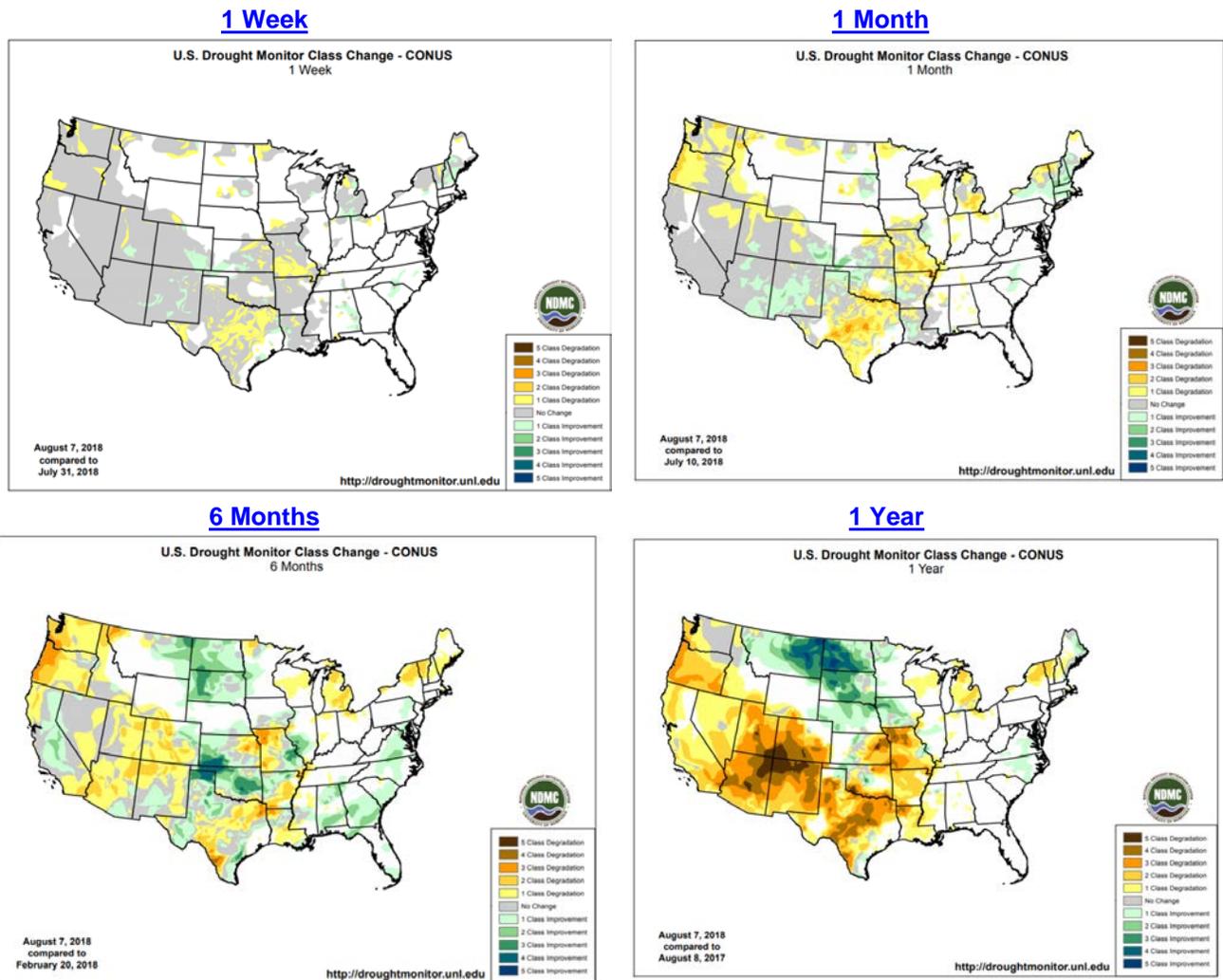
Drought

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

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



Changes in Drought Monitor Categories over Time

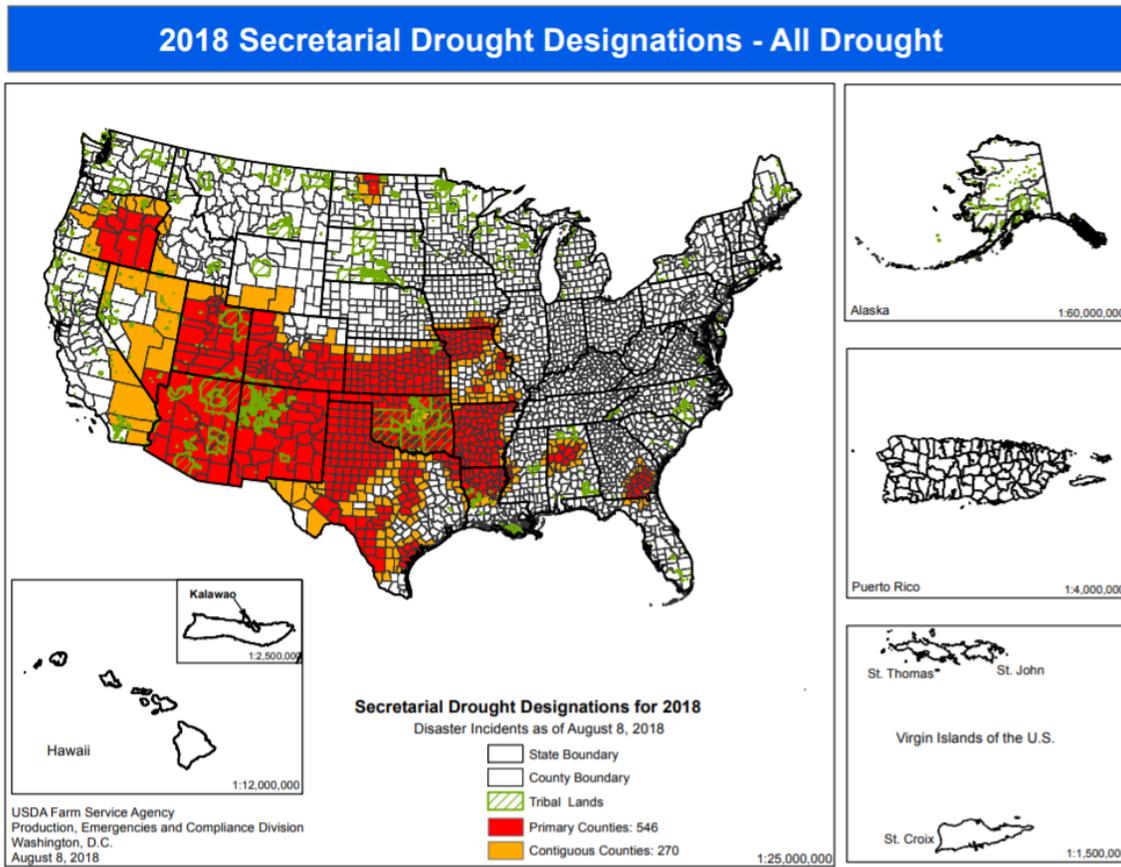


[Changes in drought conditions over the last 12 months](#)

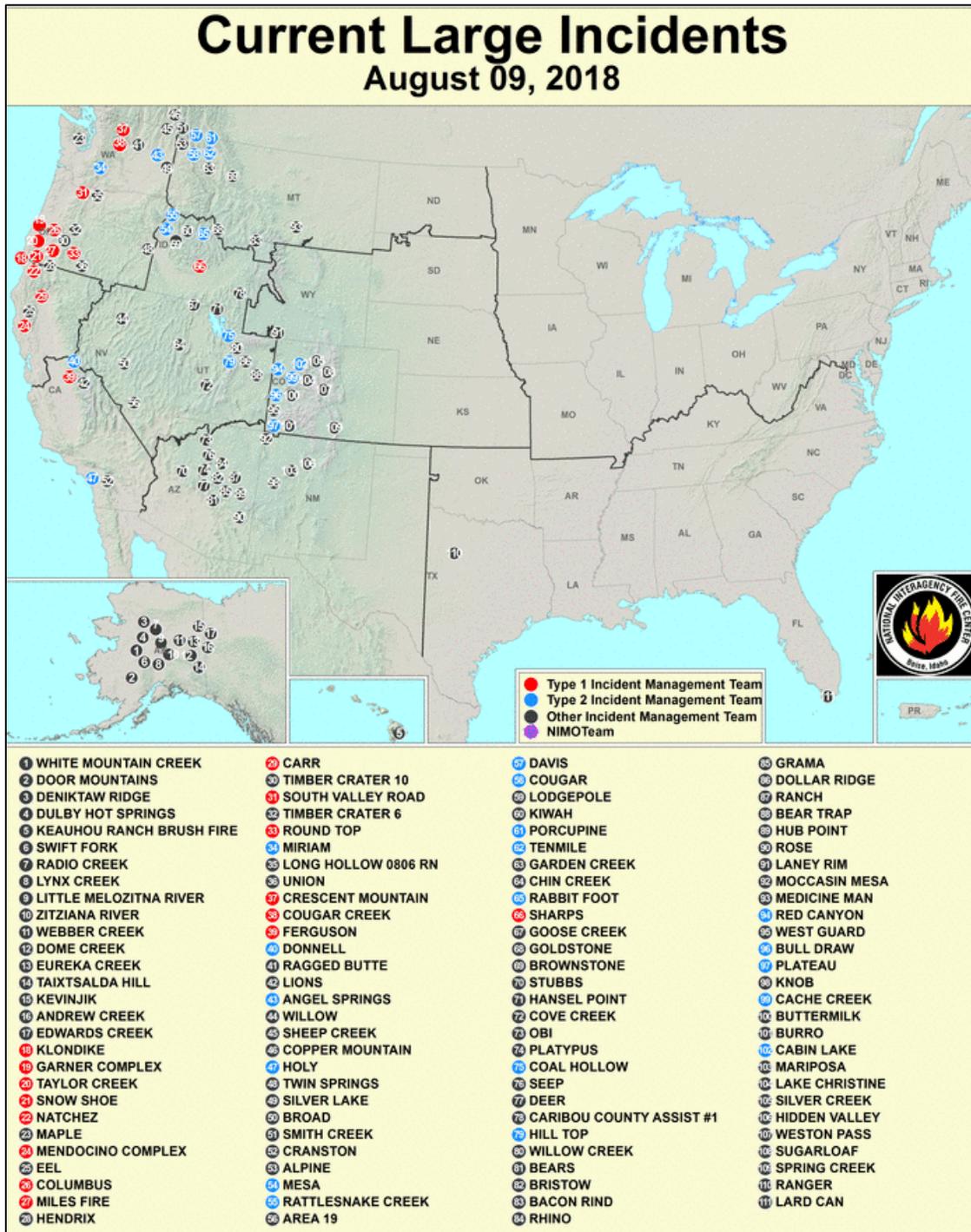
Highlighted Drought Resources

- [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



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



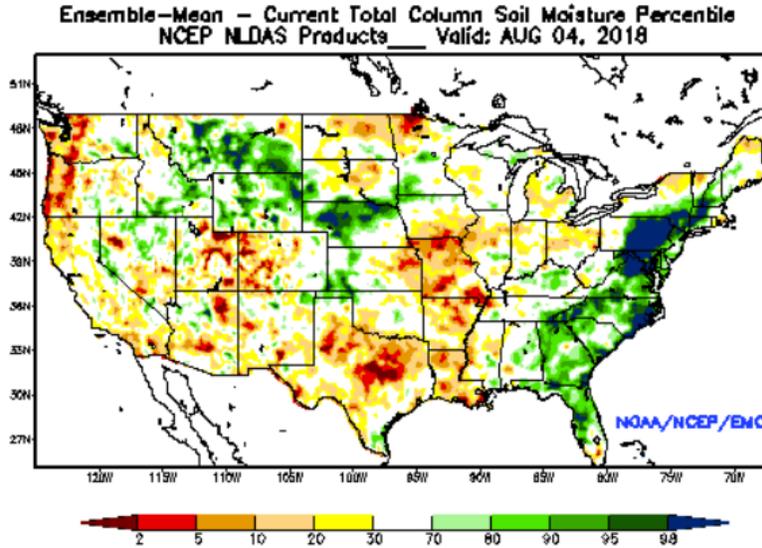
Highlighted Wildfire Resources

- [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



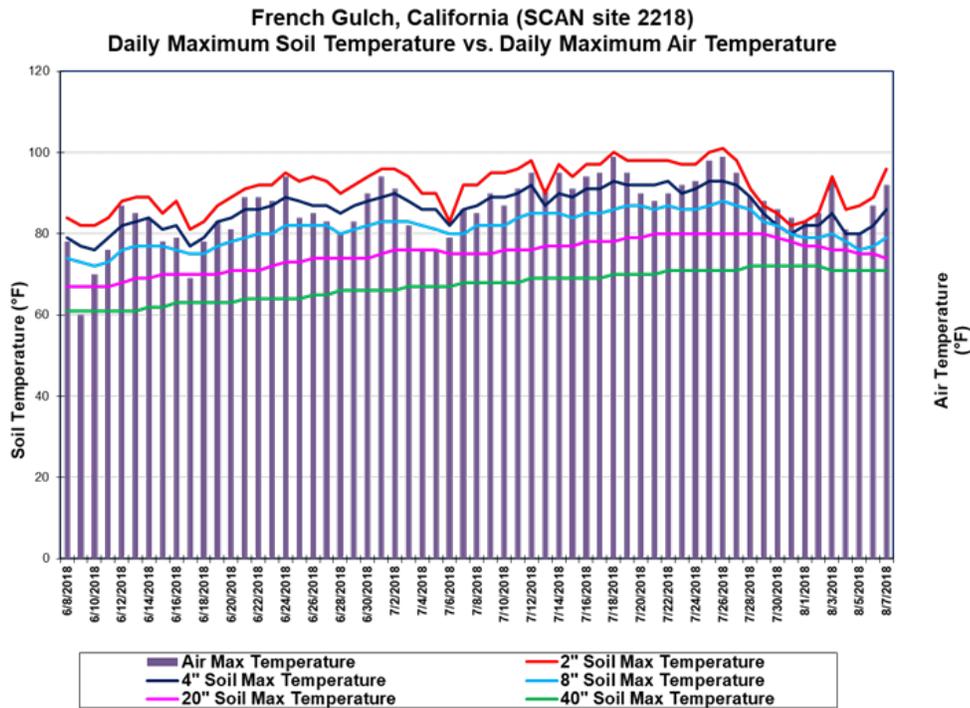
Soil Moisture Data Portals

- [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 August 4, 2018

Soil Temperature Data

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

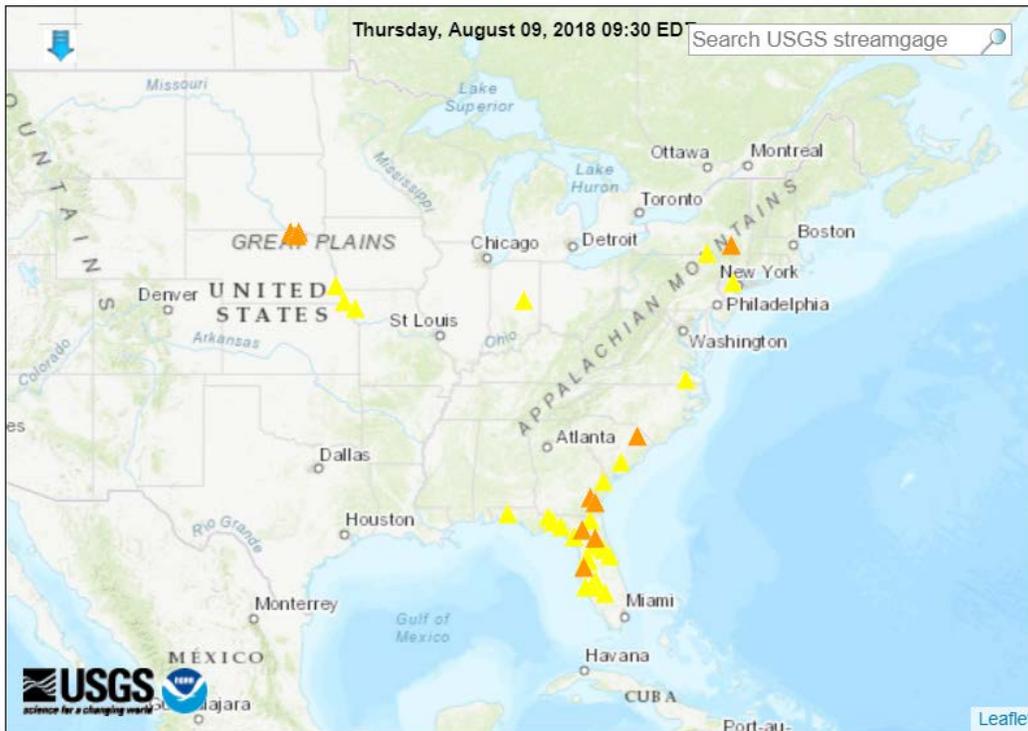


This graph shows the maximum soil and air temperatures during the last 60 days at the [French Gulch SCAN site 2218](#) in northern California. The hottest day occurred on July 26 where maximum air temperature reached 101°F and maximum soil temperature at the 2-inch sensor reached 99°F.

Streamflow

Source: USGS

Map of flood and high flow conditions



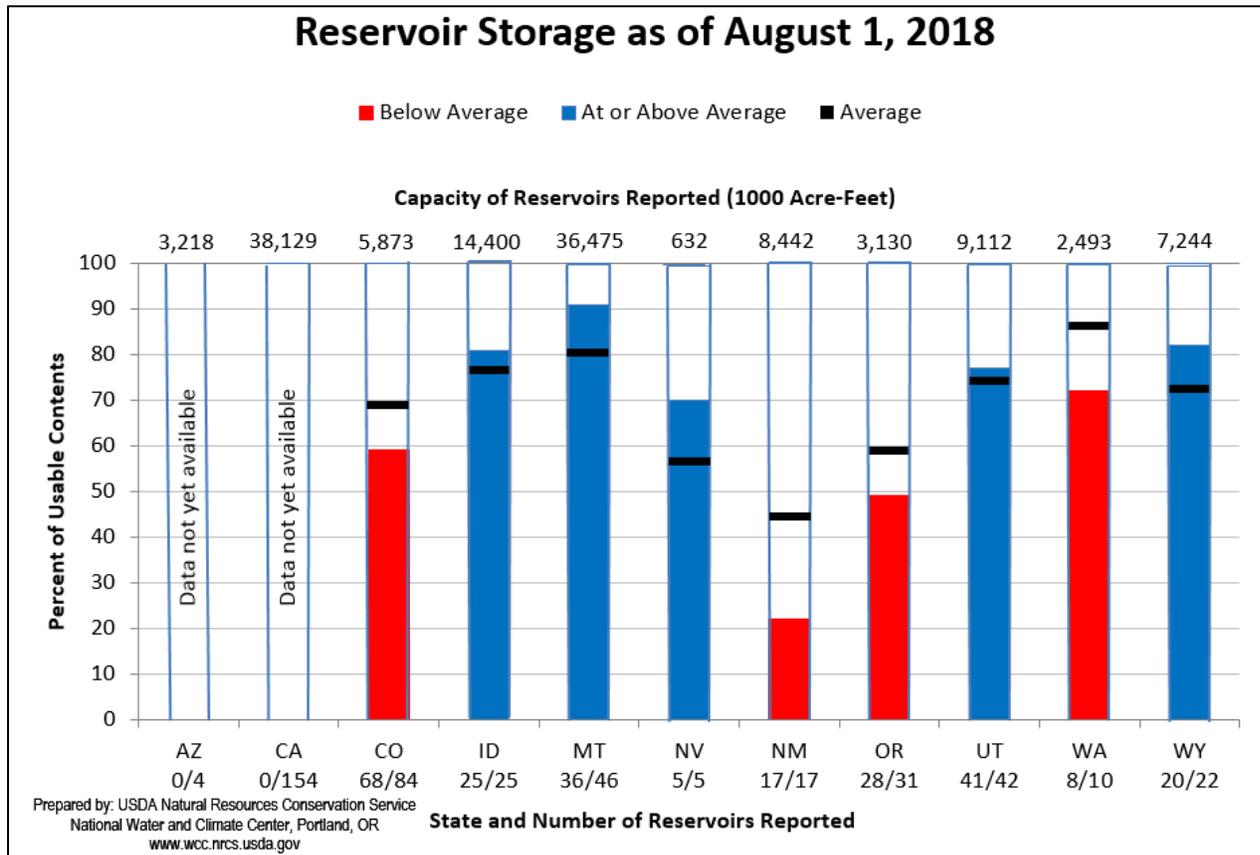
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
▲ Streamgage with flood stage ○ Streamgage without flood stage						

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



August Reservoir Storage: [Chart](#) | [Dataset](#)

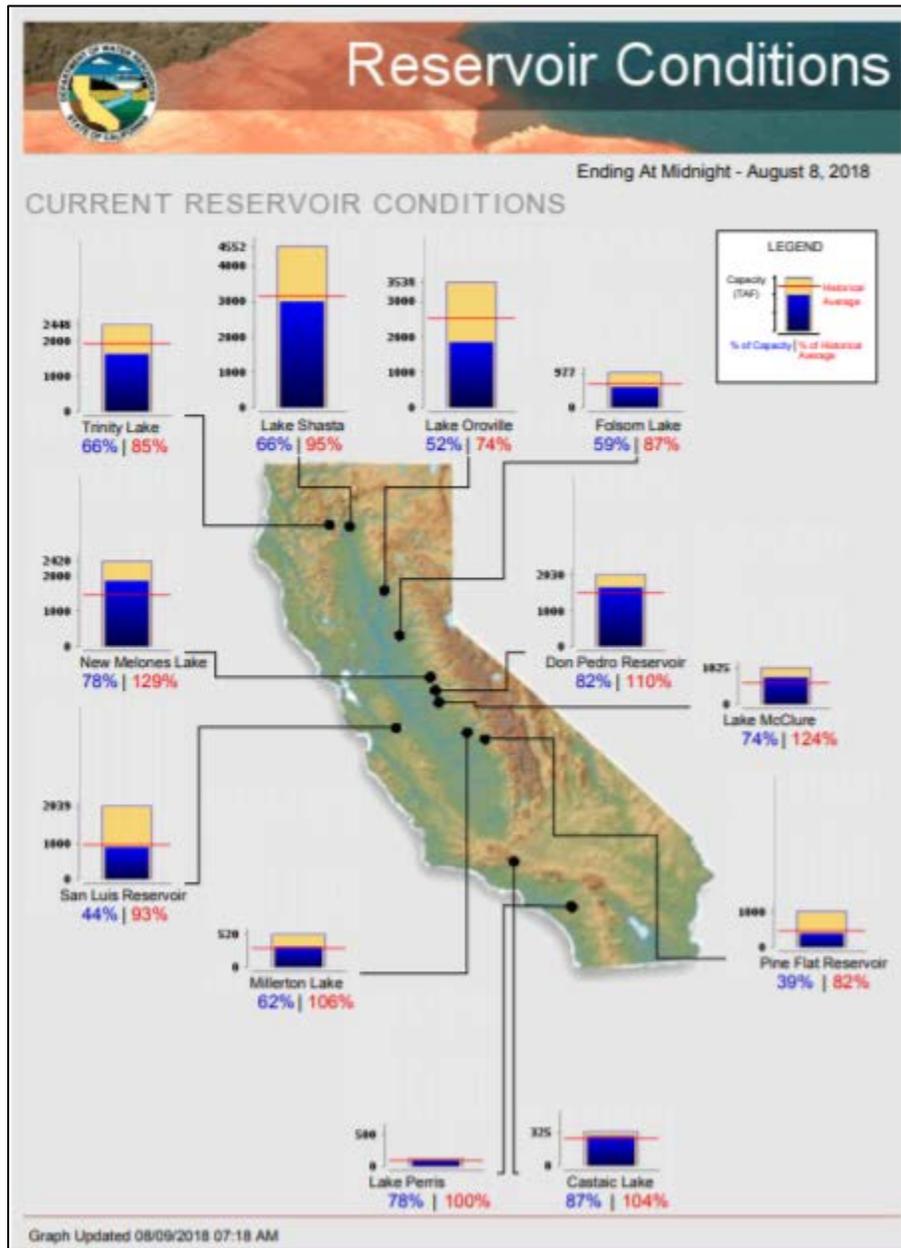
U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions

- [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

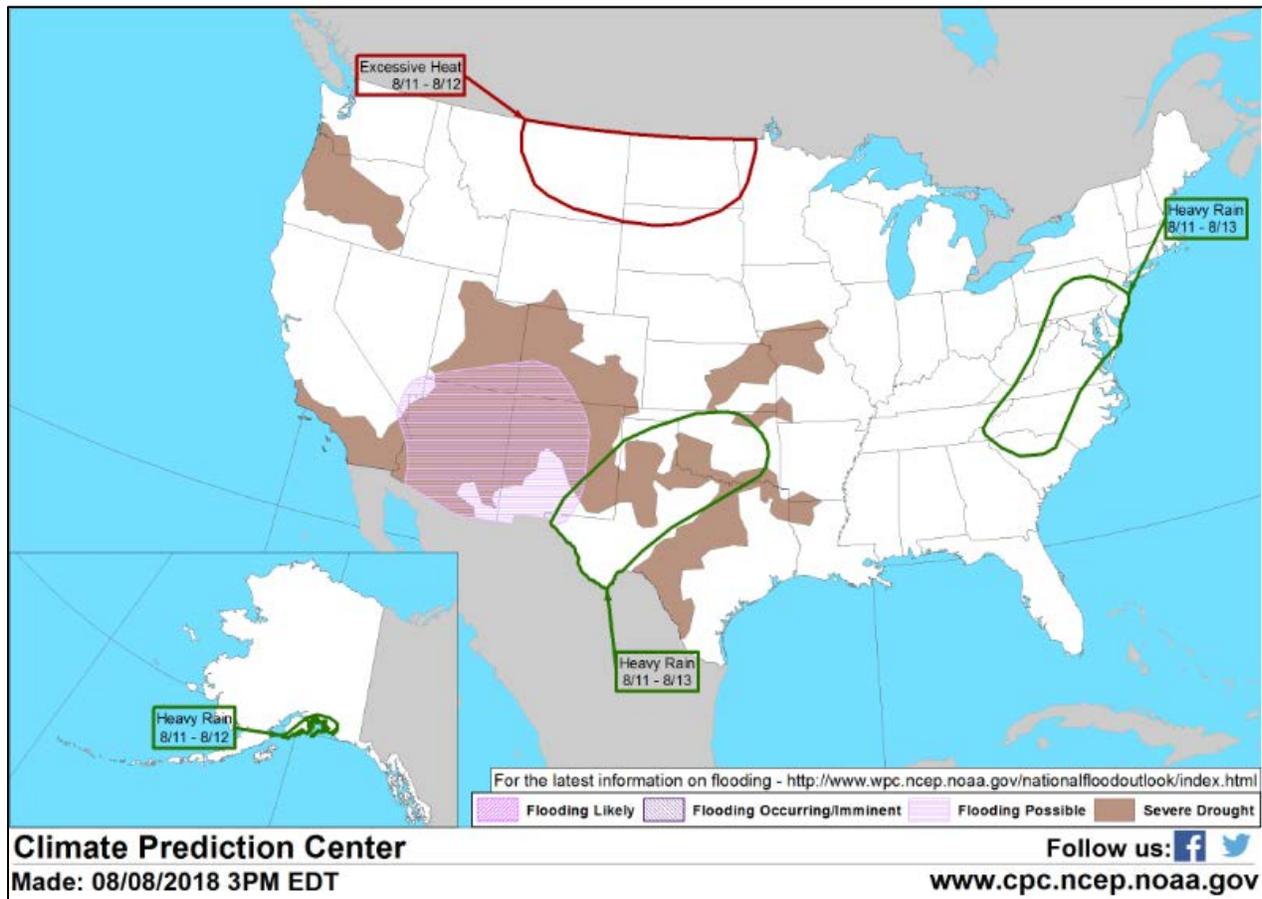
Agricultural Weather Highlights

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

National Outlook, Thursday, August 9: “Showers and thunderstorms currently affecting portions of the southern and eastern U.S. will continue for the next several days. During the weekend, locally heavy rain will develop across the south-central U.S., where 5-day totals in parts of Texas could reach 4 to 8 inches or more. Heavy weekend rain (locally 1 to 3 inches) may also occur in the Mid-Atlantic coastal plain. In contrast, mostly dry weather will prevail from the Pacific Coast to the northern Plains and upper Midwest, accompanied by significantly above-normal temperatures. The NWS 6- to 10-day outlook for August 14 – 18 calls for the likelihood of near- to above-normal temperatures nationwide, except for cooler-than-normal conditions in parts of the south-central U.S. Meanwhile, below-normal rainfall across the lower Southeast and from the northern Rockies into the upper Midwest should contrast with wetter-than-normal weather in the Desert Southwest and from the southern Plains into the Northeast.”

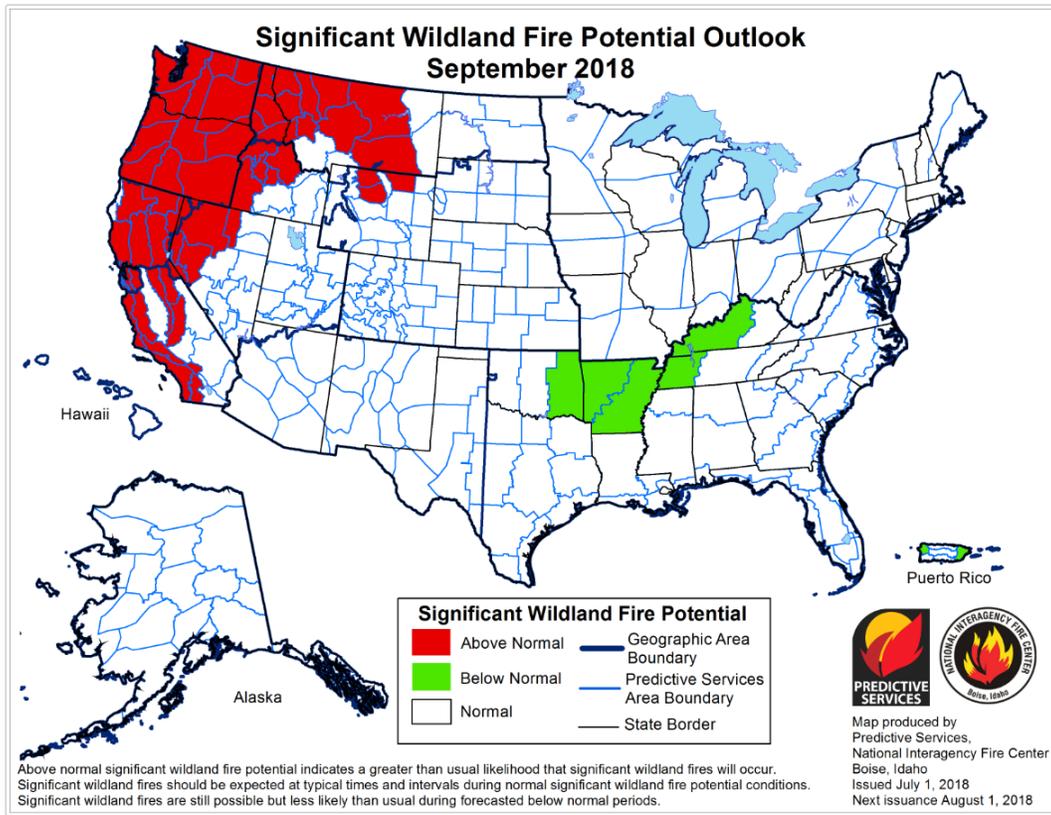
Weather Hazard Outlook August 11 – 15, 2018

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

Source: National Interagency Fire Center

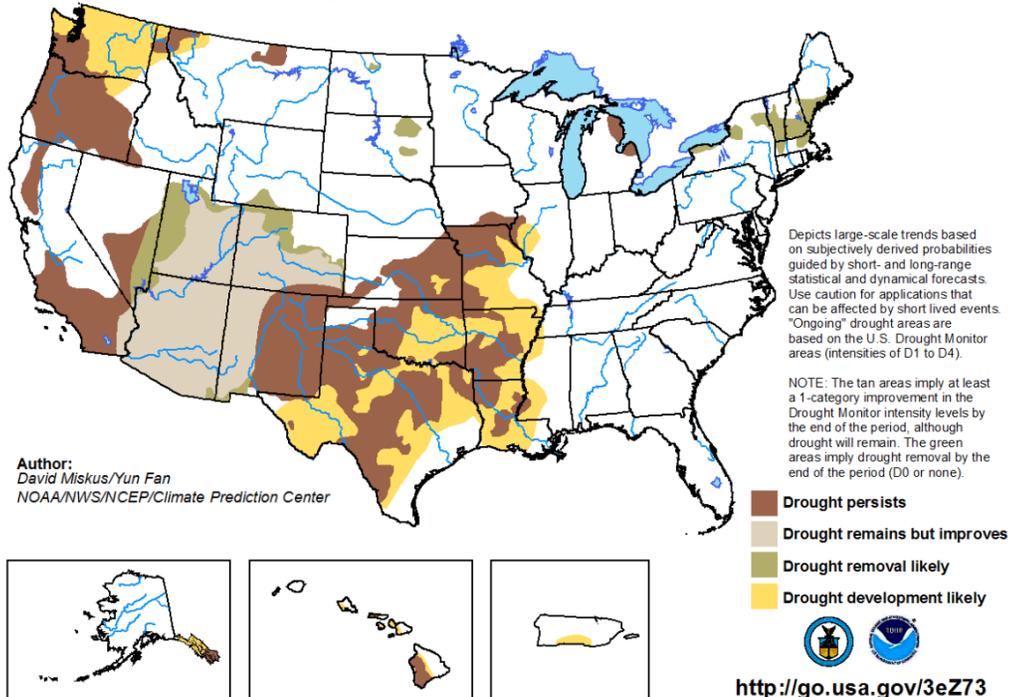


Seasonal Drought Outlook: [July 19 – October 31, 2018](#)

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

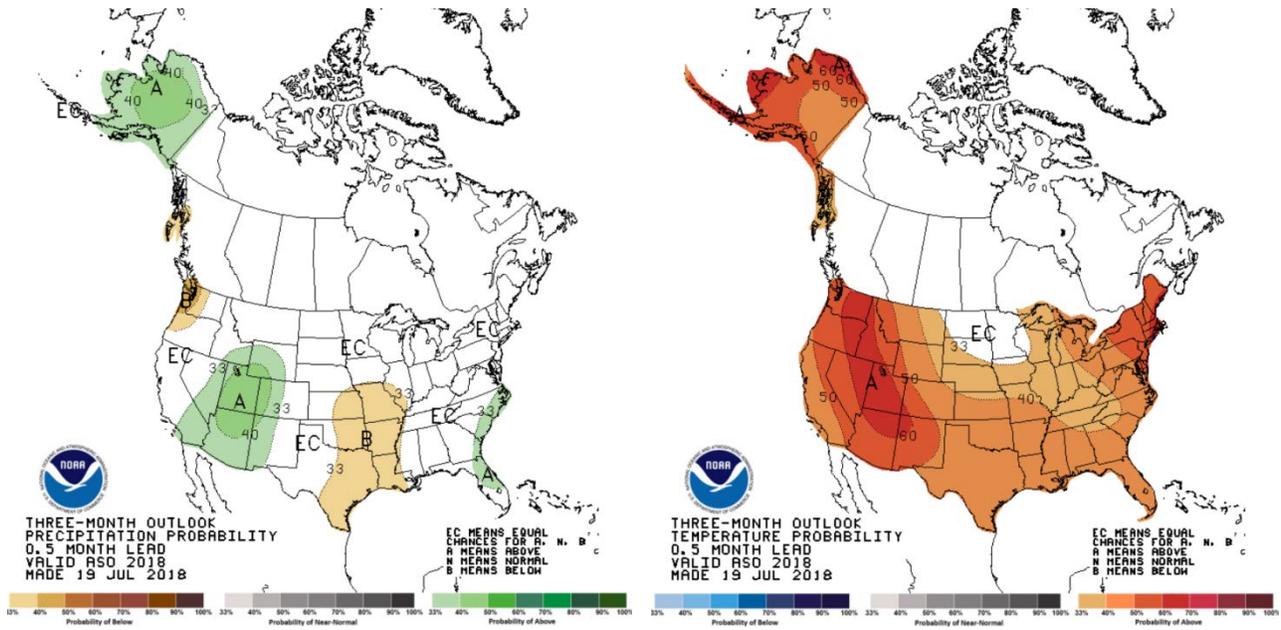


Climate Prediction Center 3-Month Outlook

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](#).