

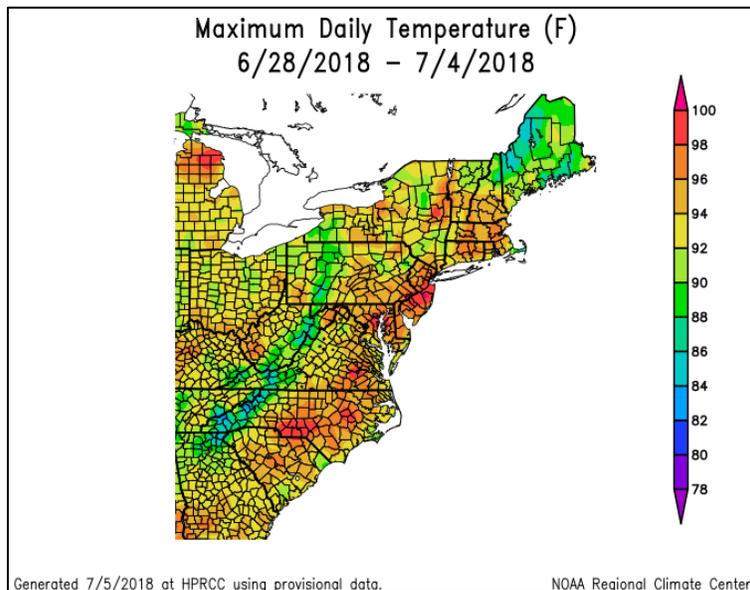
# Water and Climate Update

July 5, 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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Temperature .....	6	Short- and Long-Range Outlooks.....	15
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## Heat wave blankets the Northeast and Mid-Atlantic



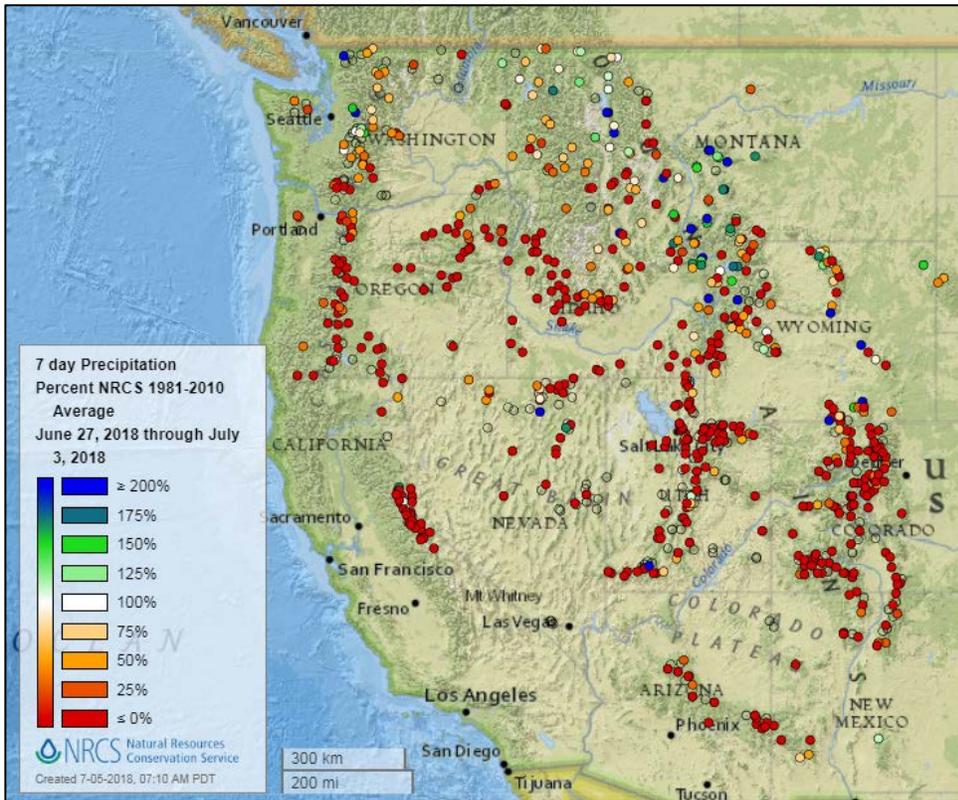
Excessive heat warnings were issued for the Northeast and Mid-Atlantic states this week, with several cities setting new record high temperatures. Heat index values rose to triple digits and cities across the area warned people of the dangerous conditions. Cooling centers were opened in many areas, as over 60 million people were affected in the U.S. The heat wave has also caused at least two deaths, unhealthy air quality, and a strain on the national power grid.

### Related:

- [U.S. East Coast swelters under lingering heat wave](#) - Reuters
- [The Northeast US is sweltering under the worst heat wave of the year](#) - CNN
- [Heat wave enters 4th day with no relief in sight](#) – ABC News
- [DC faces intense heatwave with index close to 110 degrees](#) – WJLA (D.C.)
- [Get used to it: Heat wave will continue to scorch eastern USA this week](#) – USA Today
- [At least 8 people have died in US and Canada from heat wave](#) - The Hill
- [National Grid asking customers to reduce usage amidst heat wave](#) – WGRA (NY)
- [Heat advisory issued throughout Massachusetts as dangerous temperatures continue](#) – WHDH (MA)

## Precipitation

### Last 7 Days, NRCS SNOTEL Network

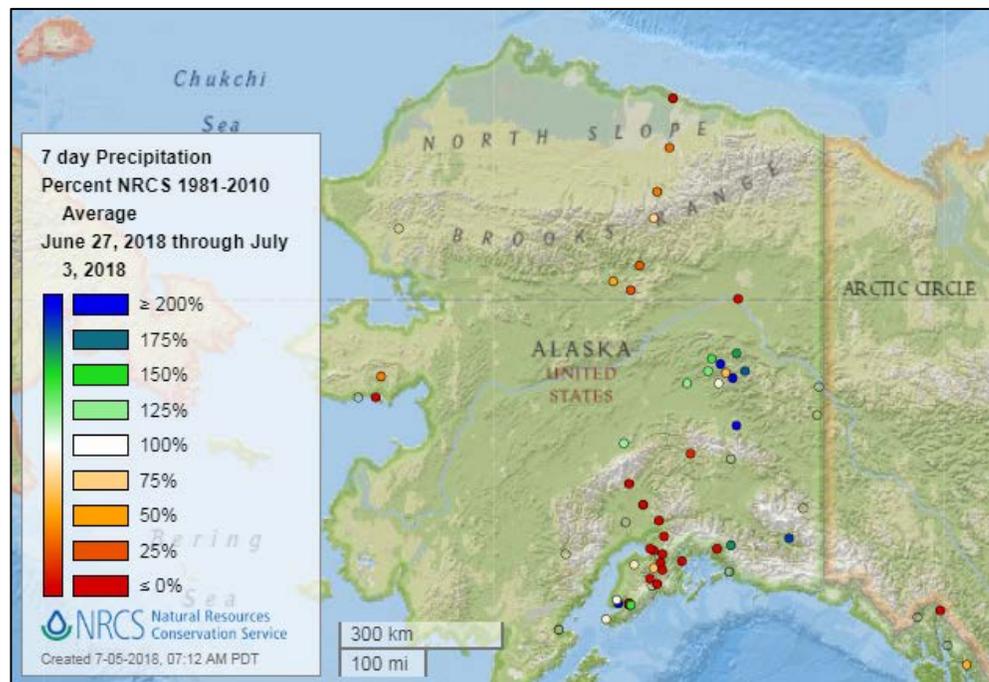


[7-day precipitation percent of average map](#)

**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](#)



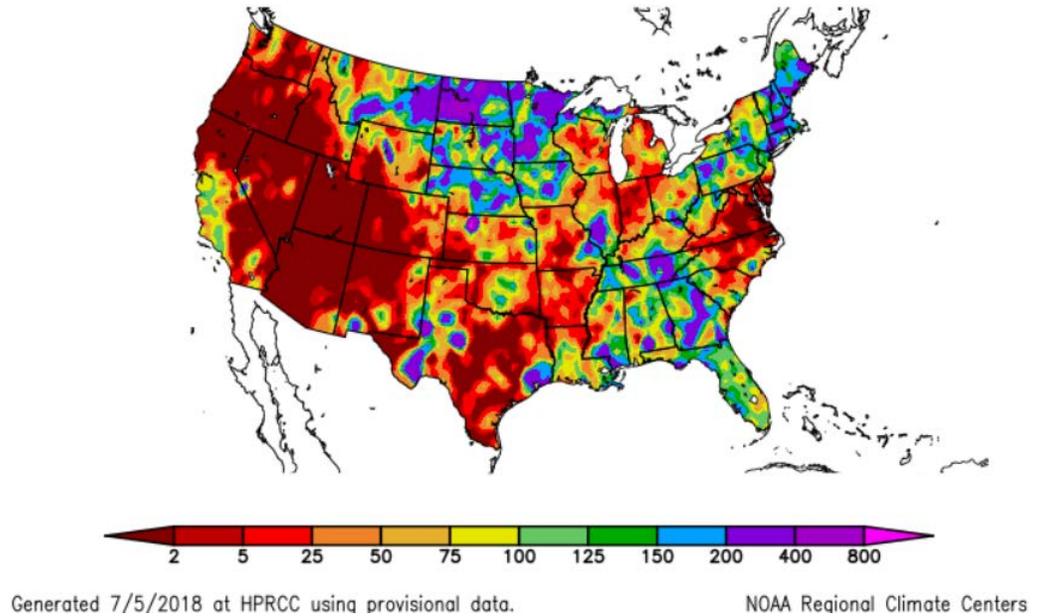
Last 7 Days, National Weather Service (NWS) Networks

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 (%)  
6/28/2018 – 7/4/2018



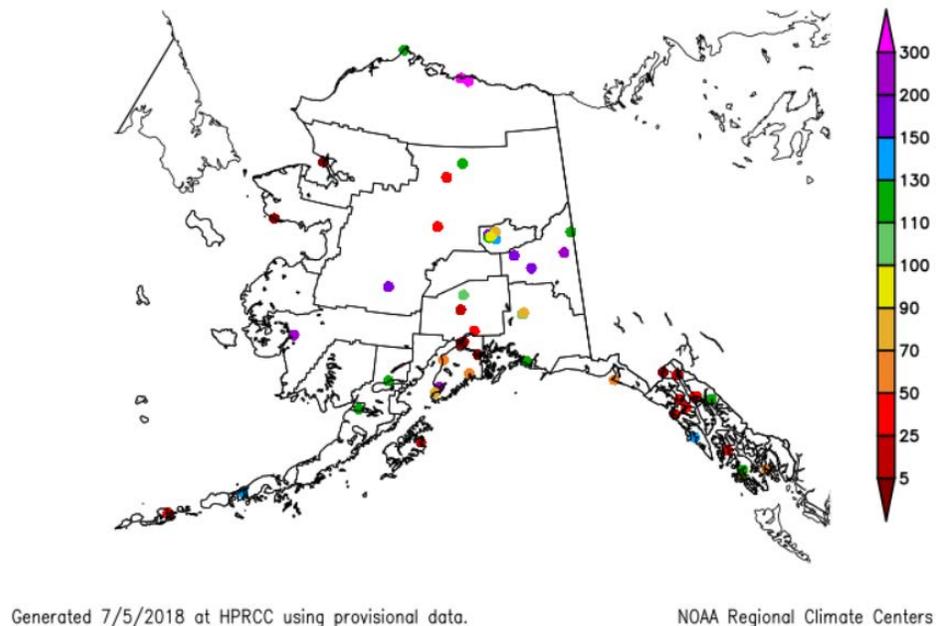
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)  
6/28/2018 – 7/4/2018



# Water and Climate Update

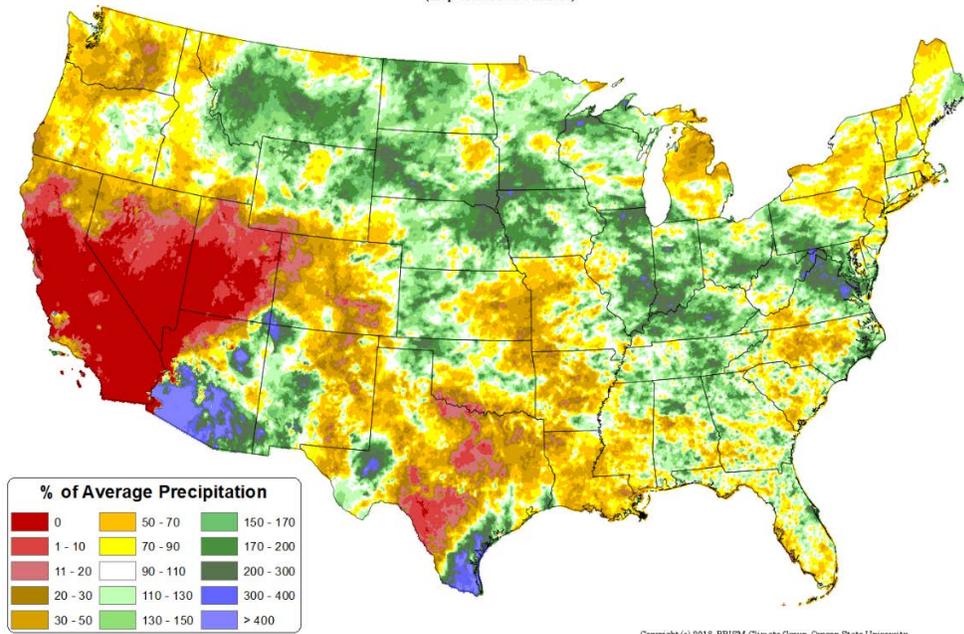
## Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

### Total Precipitation Anomaly: June 2018

Period ending 30 Jun 2018  
Base period: 1981-2010  
(Map created 02 Jul 2018)

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



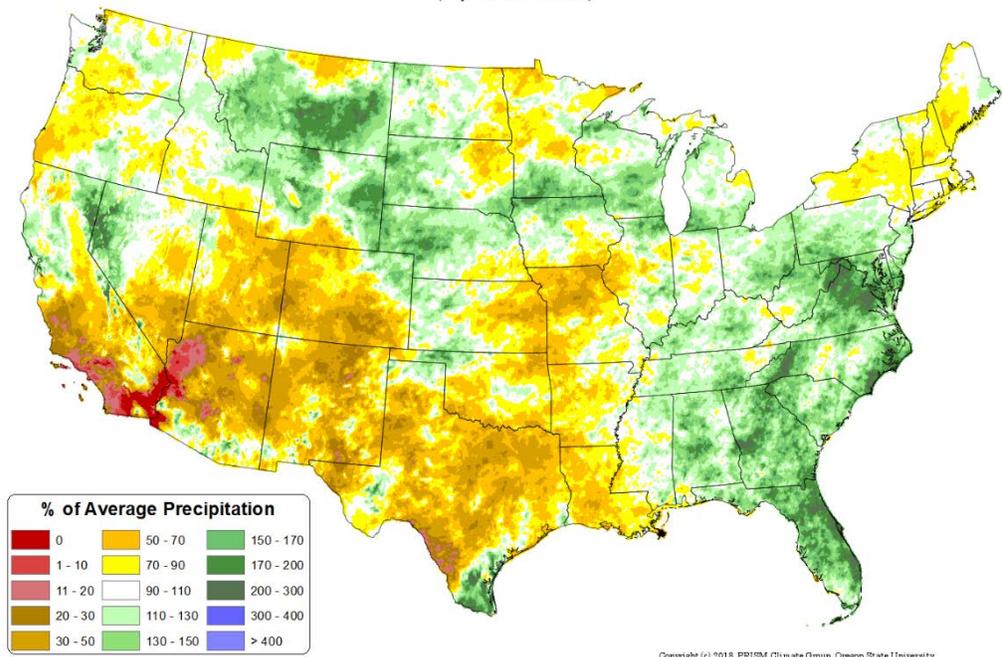
## Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

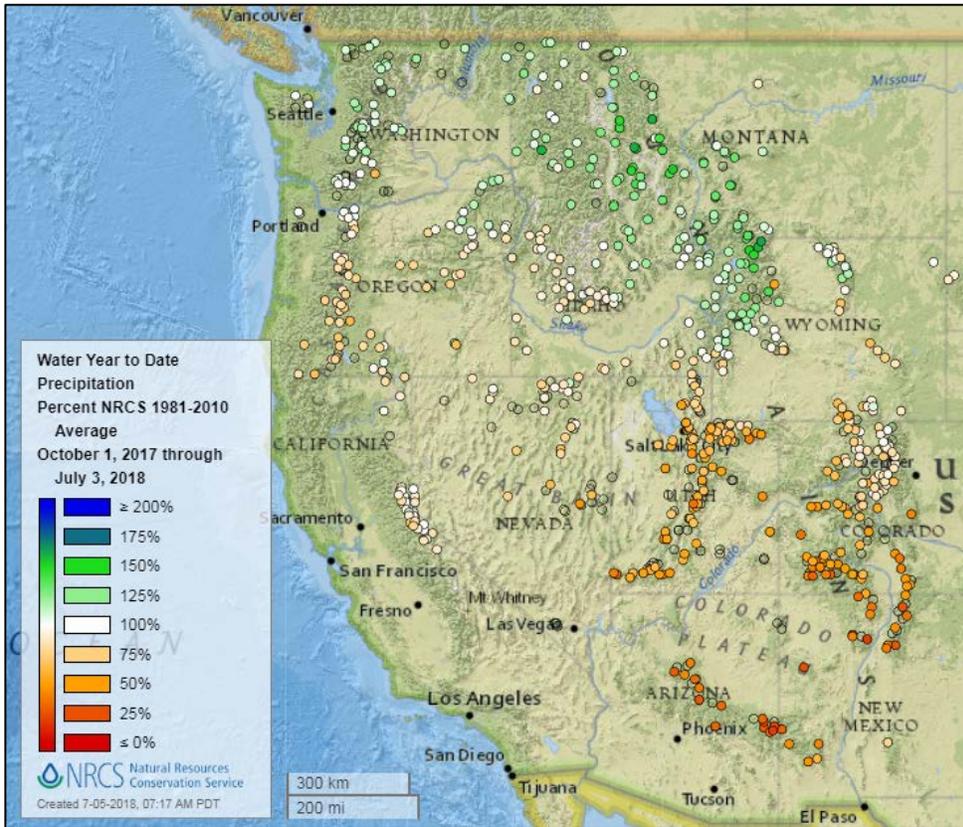
[April through June 2018 total precipitation percent of average map](#)

### Total Precipitation Anomaly: April 2018 - June 2018

Period ending 7 AM EST 30 Jun 2018  
Base period: 1981-2010  
(Map created 02 Jul 2018)

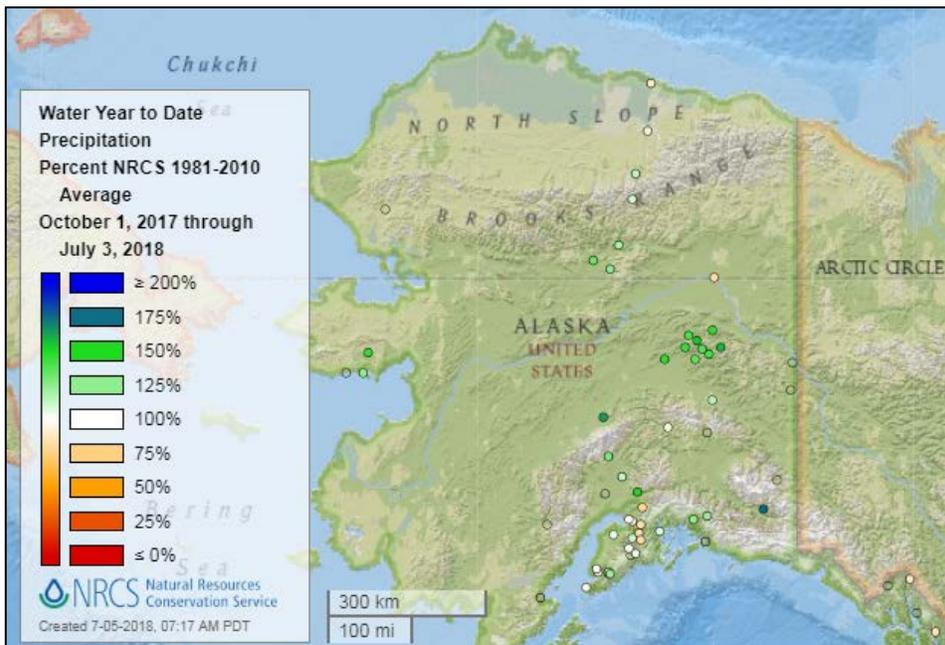


Water Year-to-Date, NRCS SNOTEL Network



[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

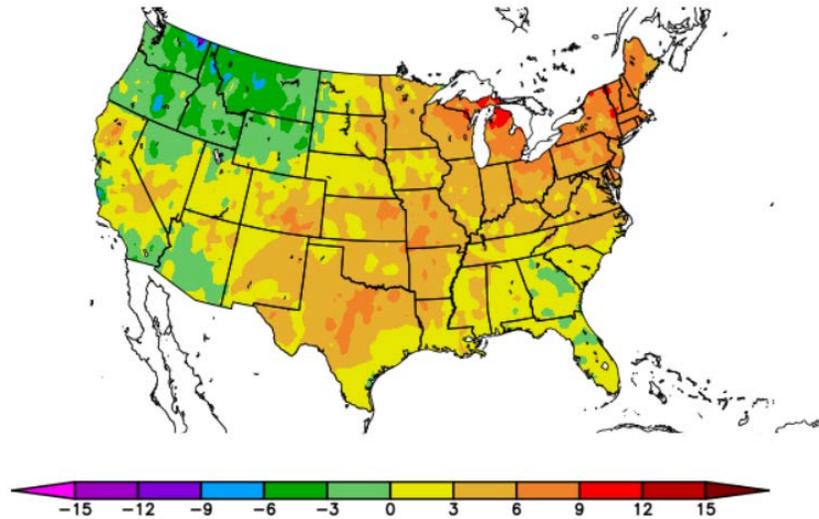
### Last 7 Days, National Weather Service (NWS) Networks

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)  
6/28/2018 – 7/4/2018



Generated 7/5/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

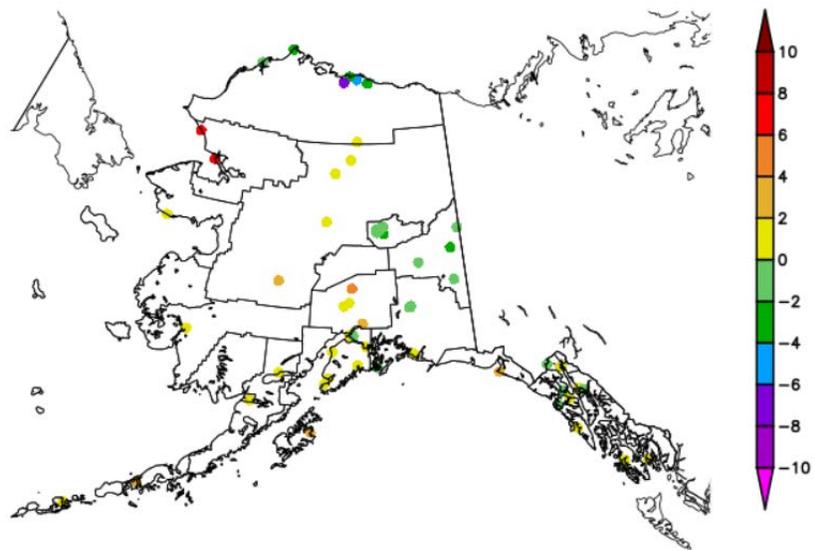
### Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)  
6/28/2018 – 7/4/2018



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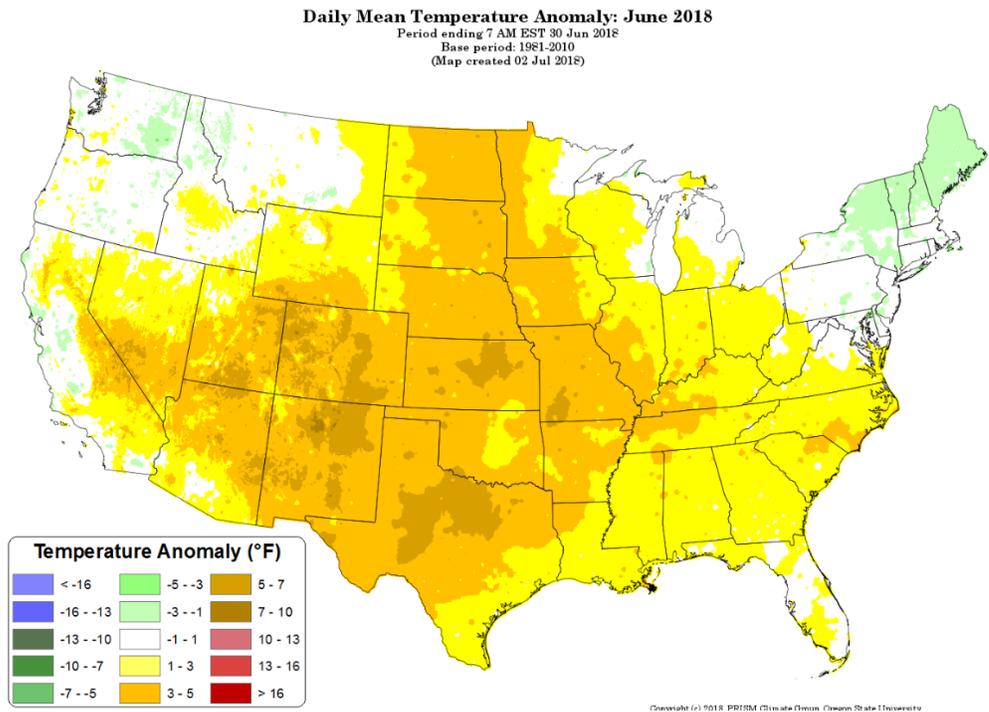
NOAA Regional Climate Centers

# Water and Climate Update

Previous Month, All Available Data Including SNOTEL and NWS Networks

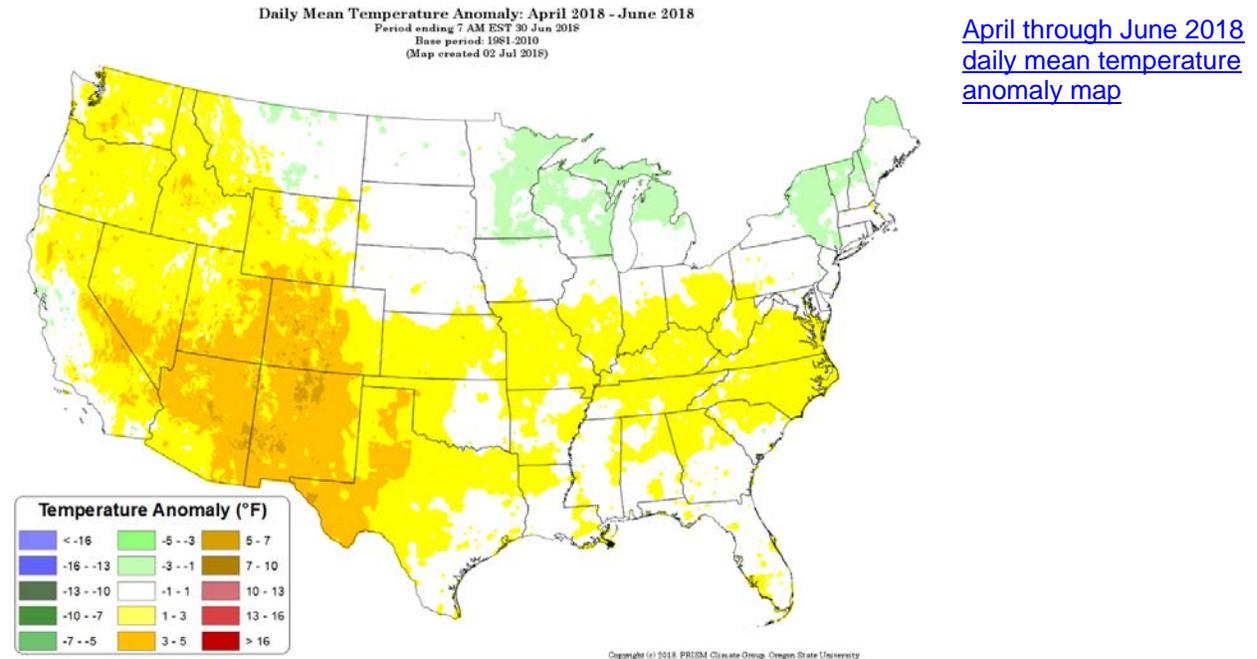
Source: PRISM

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



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

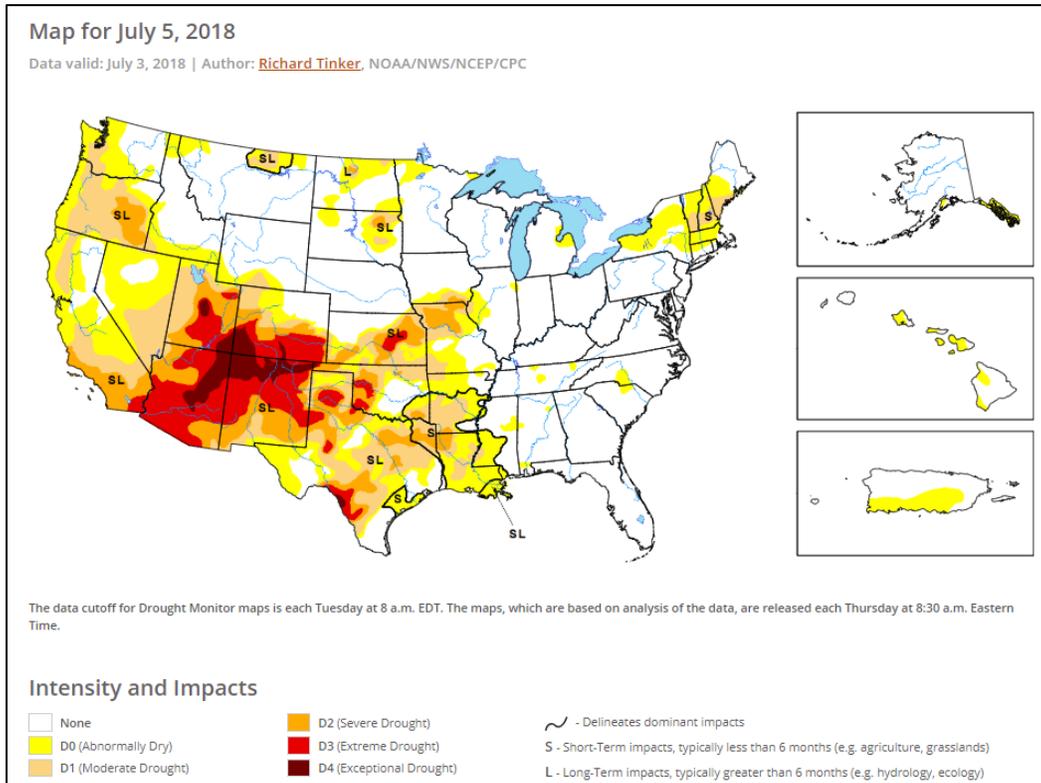
Source: PRISM



## Drought

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

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

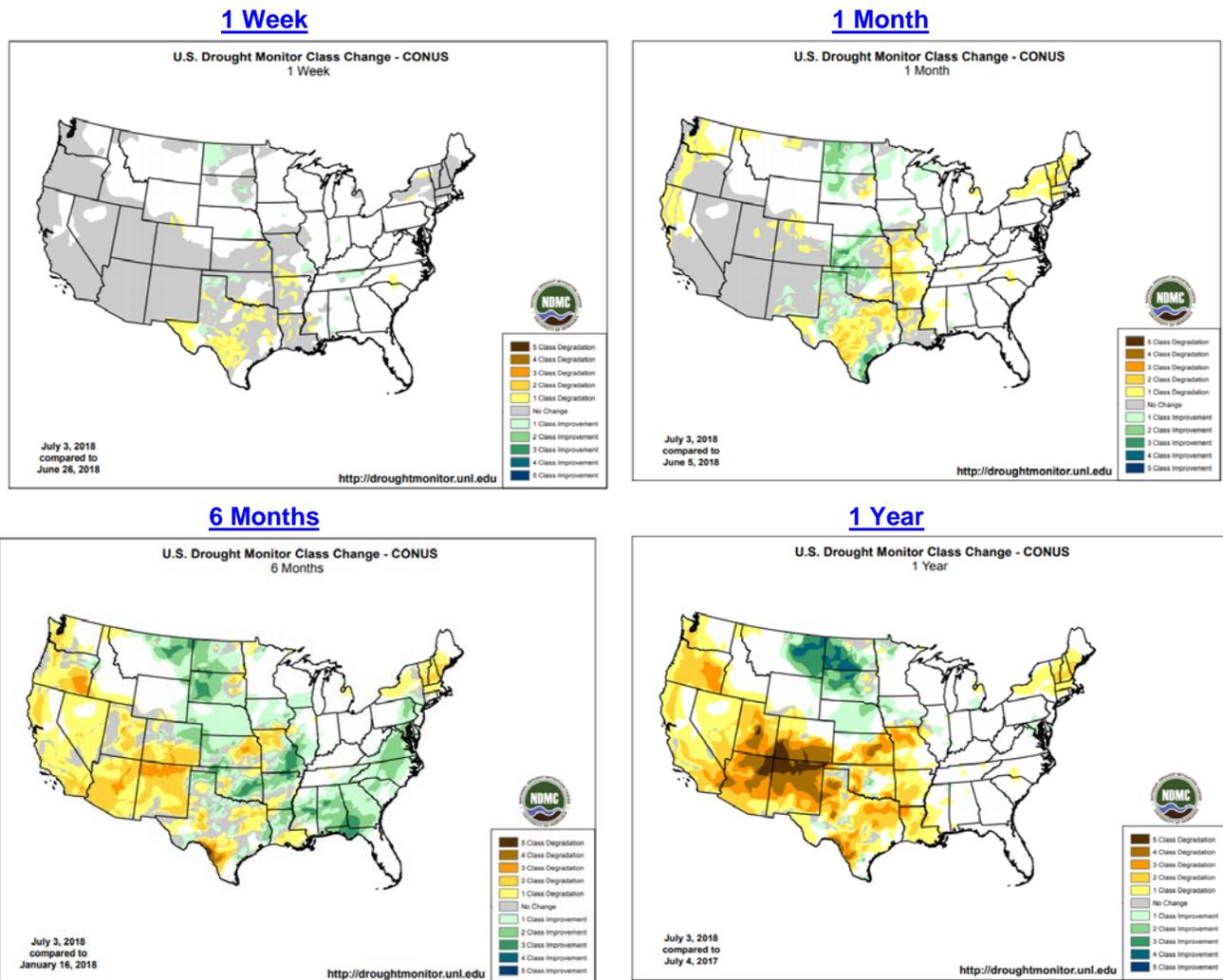


### Current [National Drought Summary](#), July 5, 2018

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

“Most areas of dryness and drought recorded at least light precipitation, with a few swaths receiving 1 to locally 2 inches; however, these amounts were insufficient to improve conditions significantly, especially with the heat wave that enveloped the region late in the period. The only change introduced was a small expansion of abnormal dryness into a few additional counties in upstate New York.”

## Changes in Drought Monitor Categories over Time

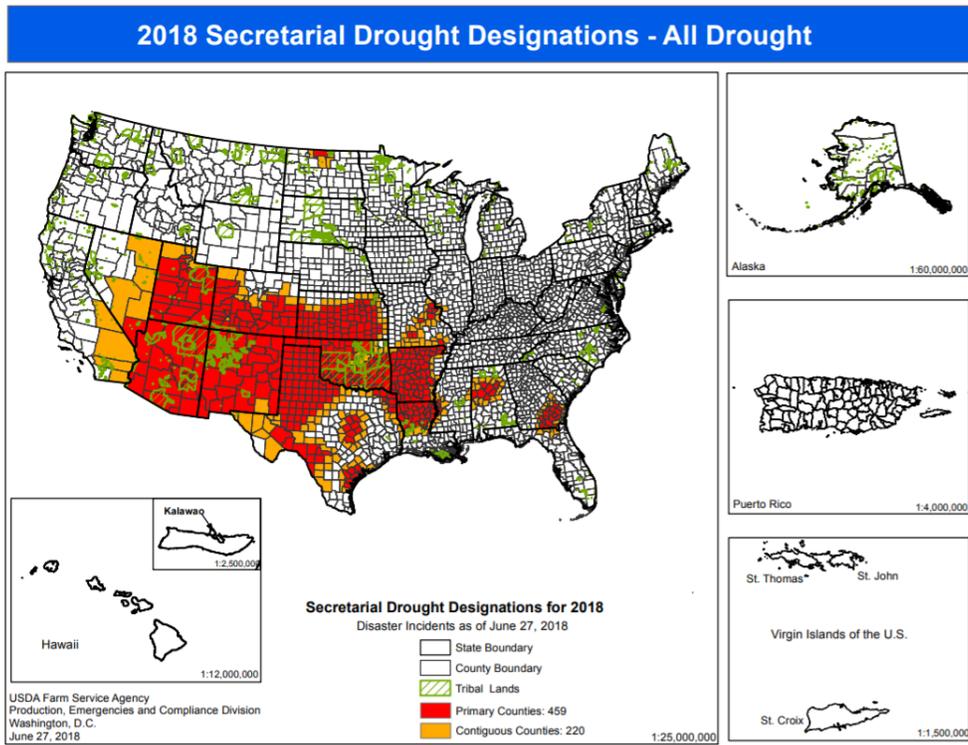


### [Changes in drought conditions over the last 12 months](#)

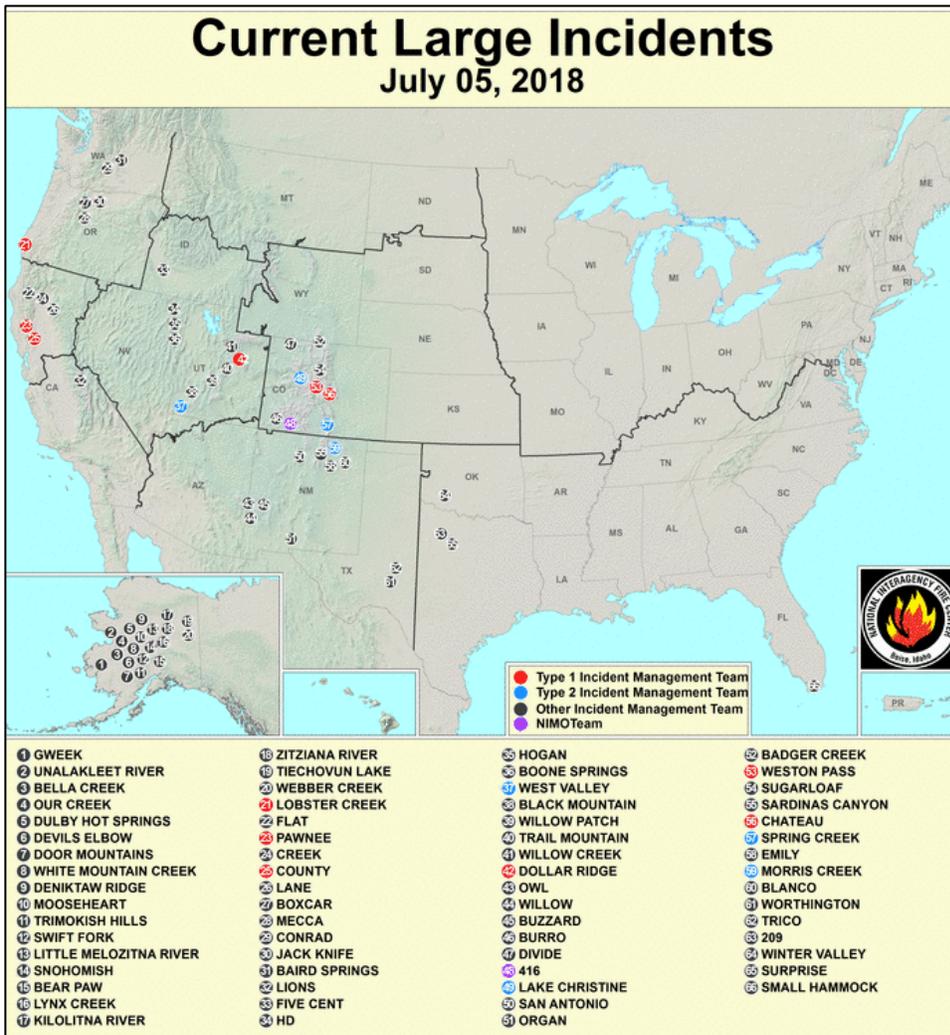
#### Highlighted Drought Resources

- [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](#)



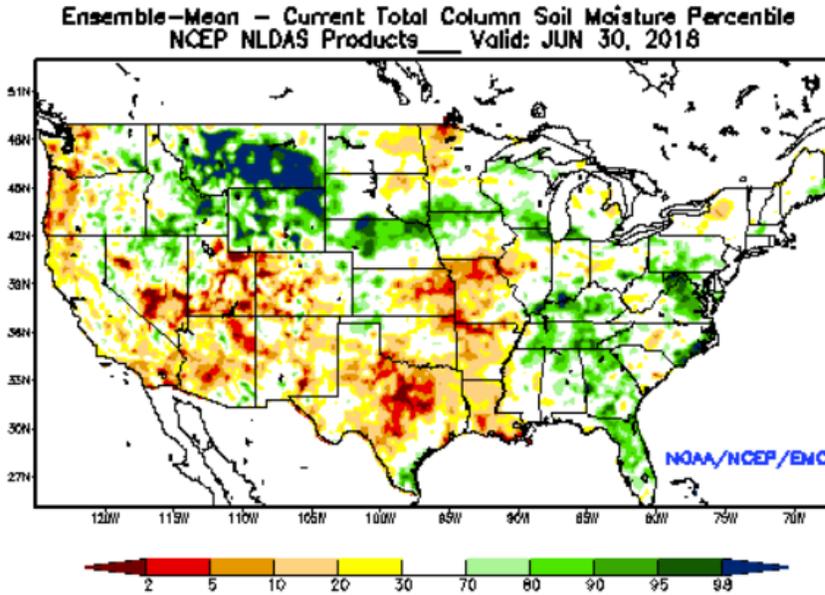
Highlighted Wildfire Resources

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

## Other Climatic and Water Supply Indicators

### Soil Moisture

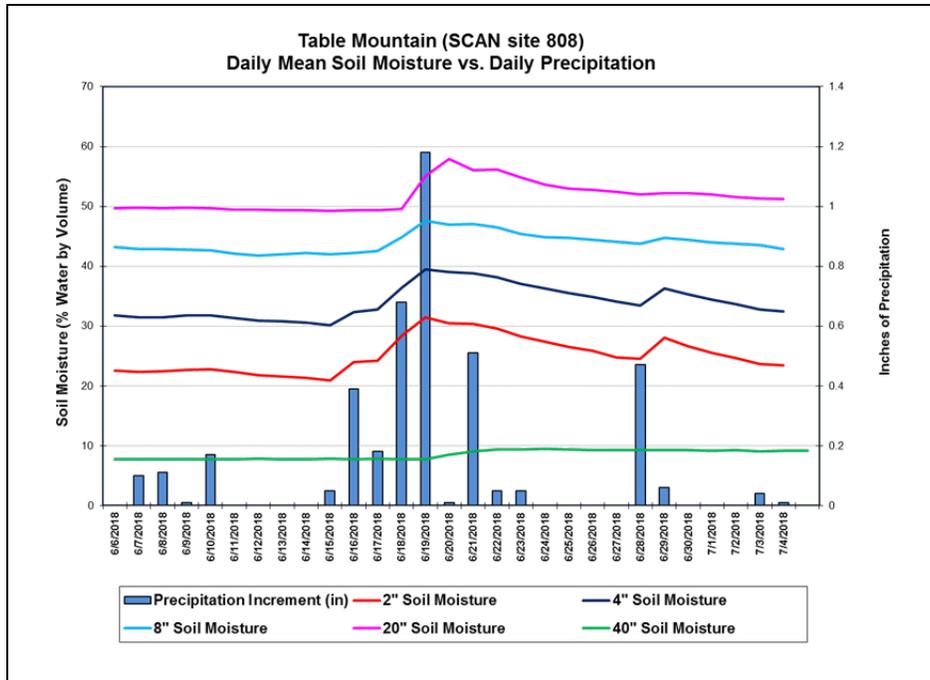
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of June 30, 2018.

### Soil Moisture Data

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



This chart shows the precipitation and soil moisture for the last 30 days at the [Table Mountain SCAN site 808](#) in Montana. The precipitation events between June 17-22 accumulated 3.00 inches of precipitation and all soil moisture sensors responded with an increase in soil moisture. An additional event on June 29-30 provided 0.60 inches of precipitation and increased the soil moisture at the 2-, 4-, and 8-inch sensors.

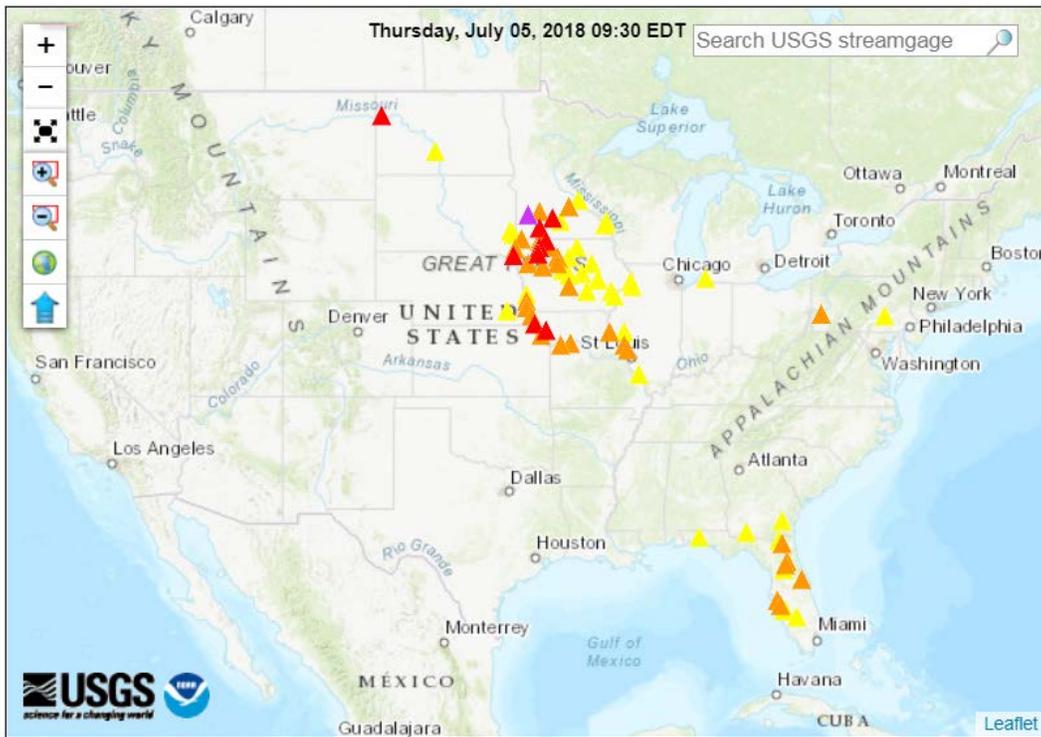
Soil Moisture Data Portals

- [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



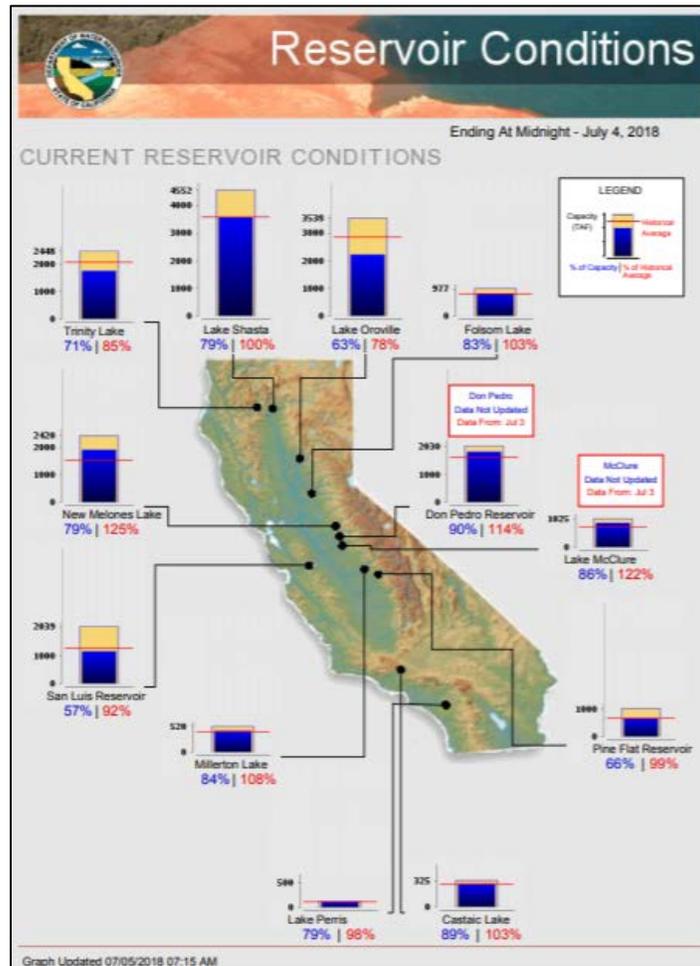
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			▲ Streamgage with flood stage	○ Streamgage without flood stage		

[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

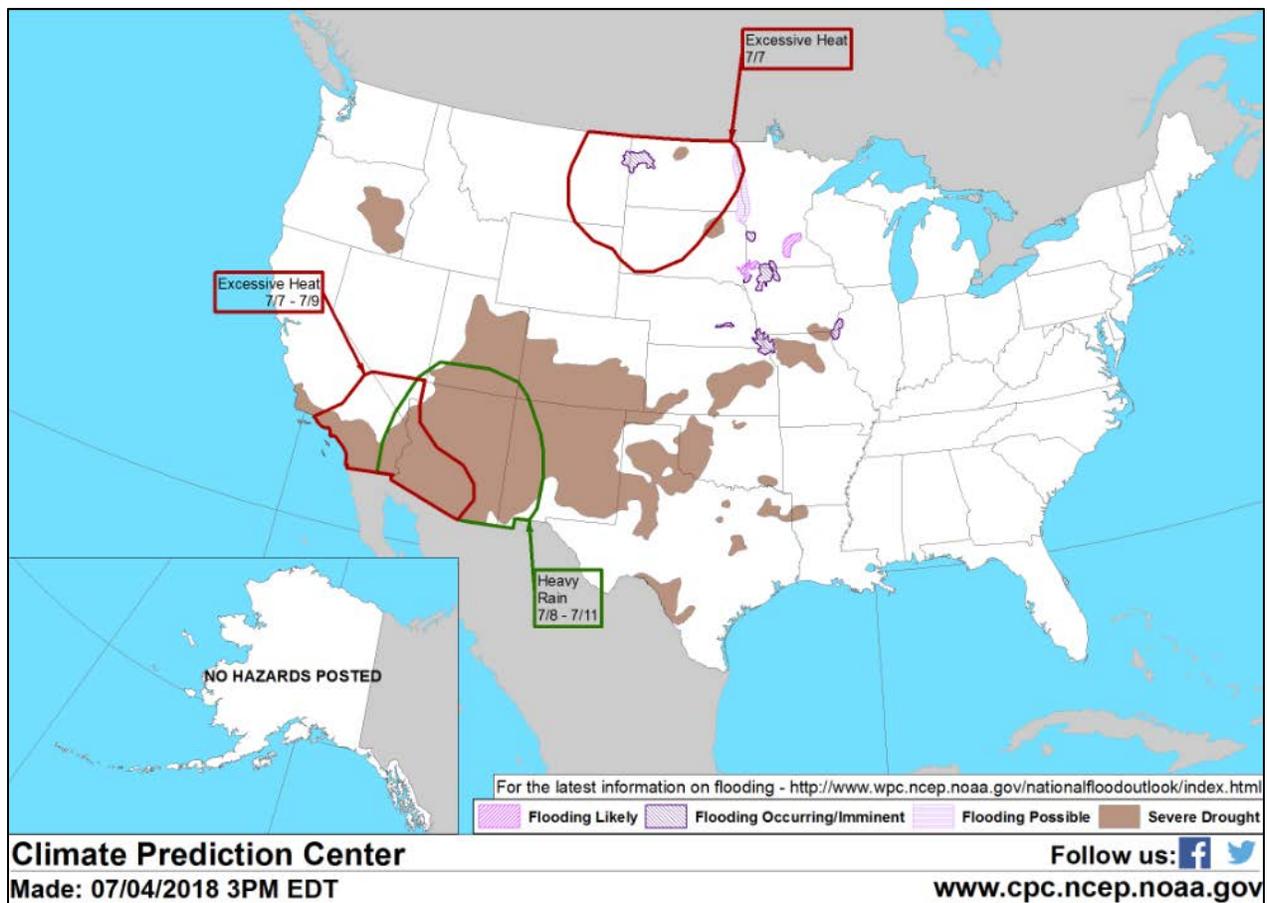
### Agricultural Weather Highlights

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

**National Outlook, Thursday, July 5:** “During the next few days, cooler air will become briefly established across much of the central and eastern U.S. In contrast, heat will quickly return by Friday across the northern High Plains and further intensify from California to the northern Rockies. In the Four Corners States, however, the late-week arrival of monsoon-related moisture, cloudiness, and showers will help to suppress temperatures. Early next week, hot weather will spread eastward across the northern half of the nation, while cloudy, showery weather will cover much of the South. Five-day rainfall totals could reach 1 to 3 inches, with locally higher amounts, from southern and eastern Texas to the middle and southern Atlantic States. The NWS 6- to 10-day outlook for July 10 – 14 calls for hotter-than-normal conditions nationwide, except for near- to below-normal temperatures from southern section of Arizona and New Mexico to the western Gulf Coast region. Meanwhile, near- to below-normal rainfall across the northern half of the country should contrast with wetter-than-normal weather in the Southwest and in an area stretching from the southeastern Plains to the southern Appalachians.”

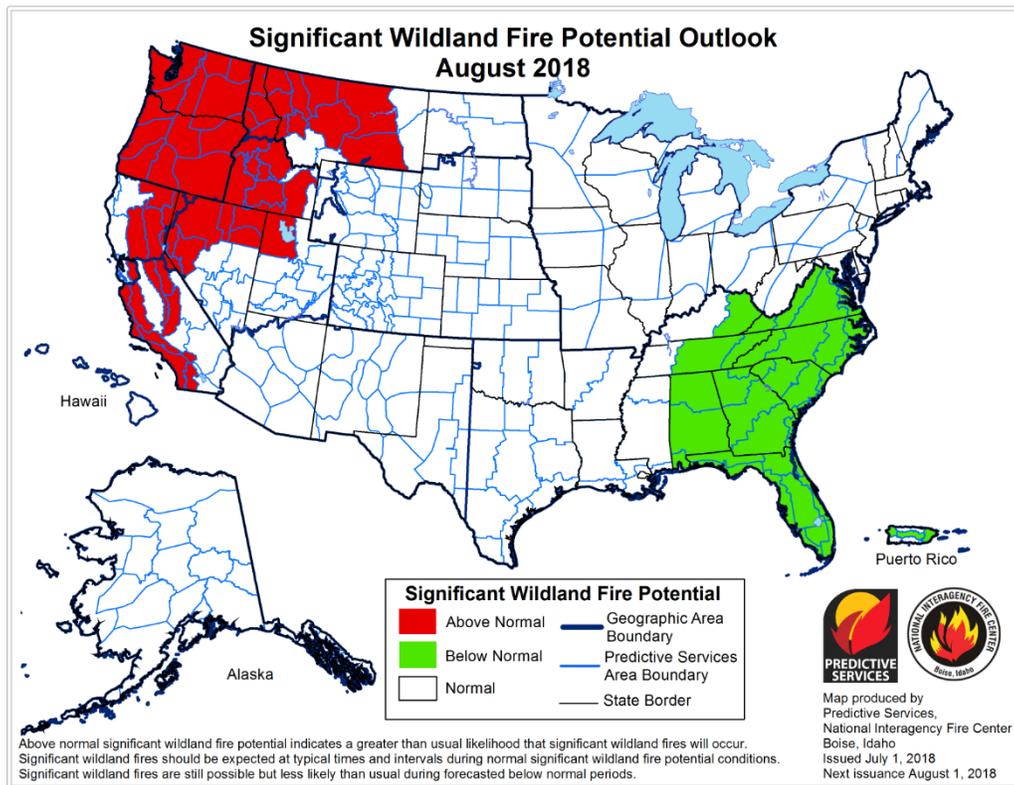
### Weather Hazard Outlook [July 7 – July 11, 2018](#)

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

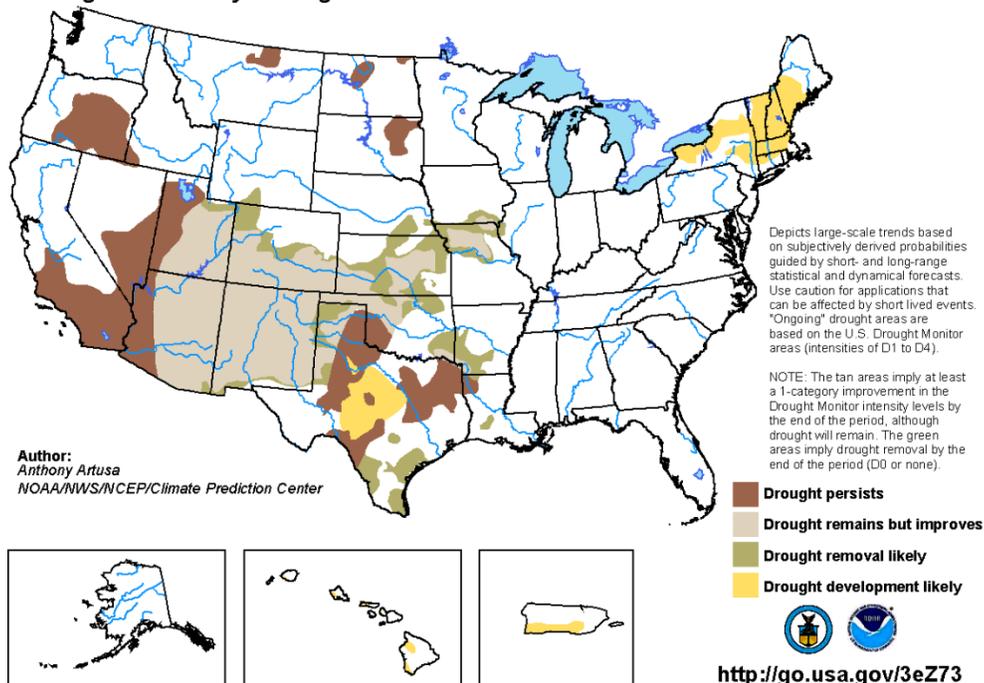
Source: National Interagency Fire Center



Seasonal Drought Outlook: [June 21 – September 30, 2018](#)

Source: National Weather Service

**U.S. Seasonal Drought Outlook** Valid for June 21 - September 30, 2018  
Drought Tendency During the Valid Period Released June 21, 2018

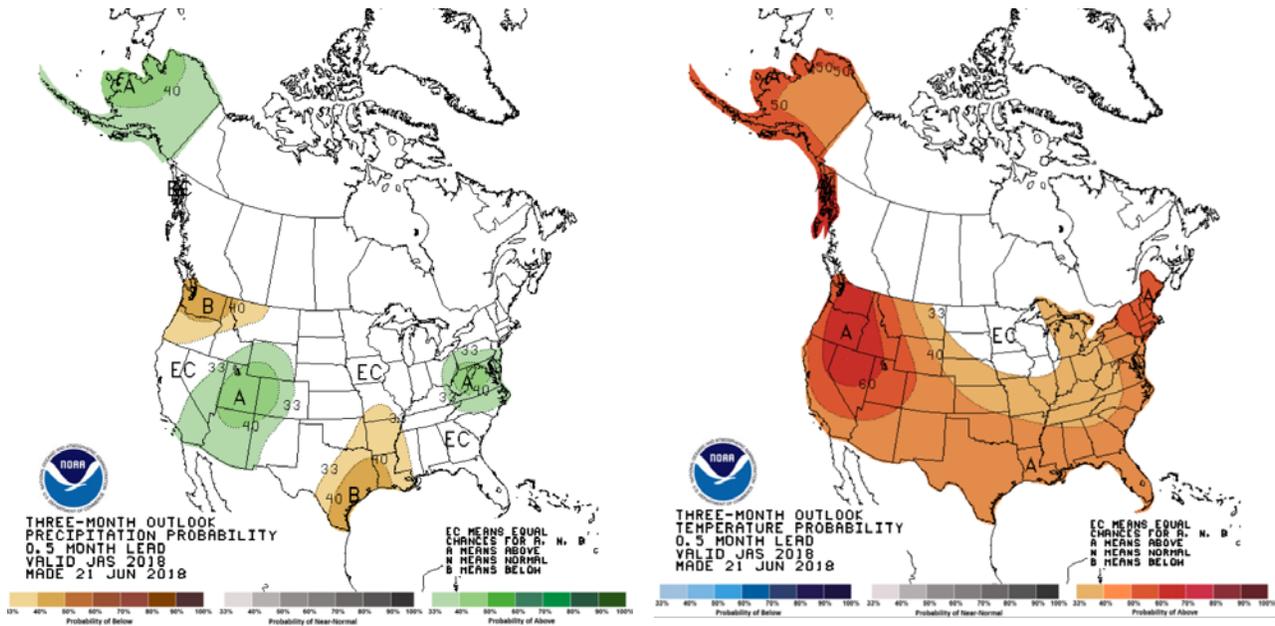


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[July-August-September \(JAS\) 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](#).