

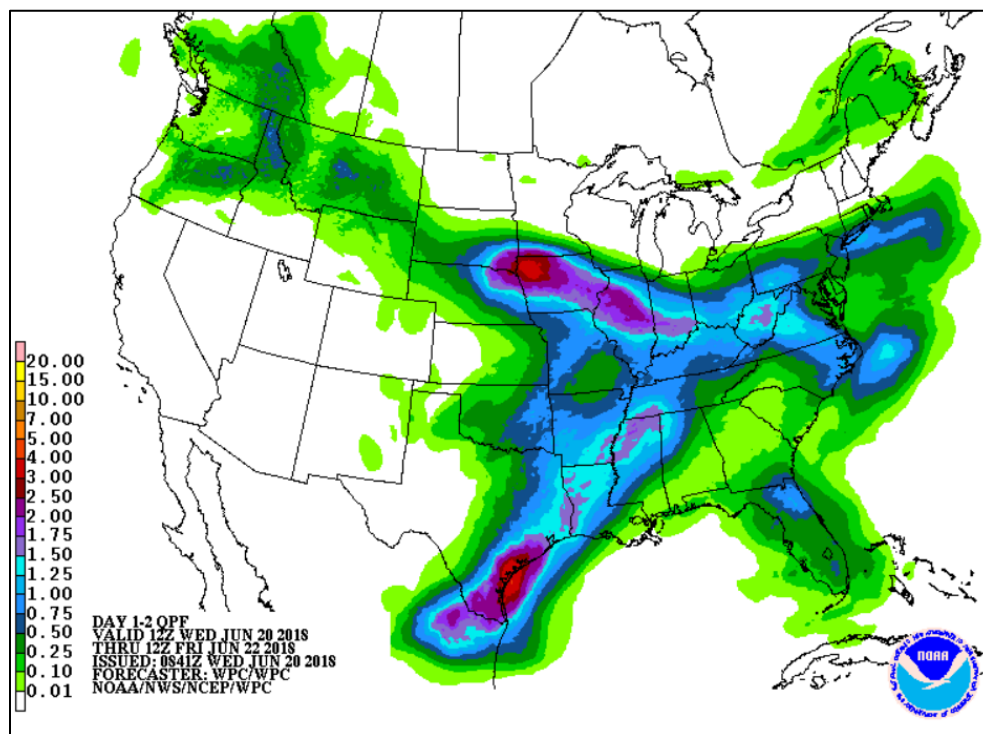
Water and Climate Update

June 21, 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	2	Other Climatic and Water Supply Indicators	11
Temperature	6	Short- and Long-Range Outlooks.....	14
Drought	8	More Information	17

Flash flood threats along Texas coast, middle Mississippi Valley



National Weather Service Weather Prediction Center 48-Hour Precipitation, Total Quantitative Precipitation Forecast

According to the National Weather Service, “A very slow moving disturbance will deliver continuous tropical heavy rainfall and flooding along the Texas Gulf Coast into Louisiana. Additional heavy rainfall will be possible across the Midwest and Ohio Valley, from a circulation and stalled frontal zone.”

Related:

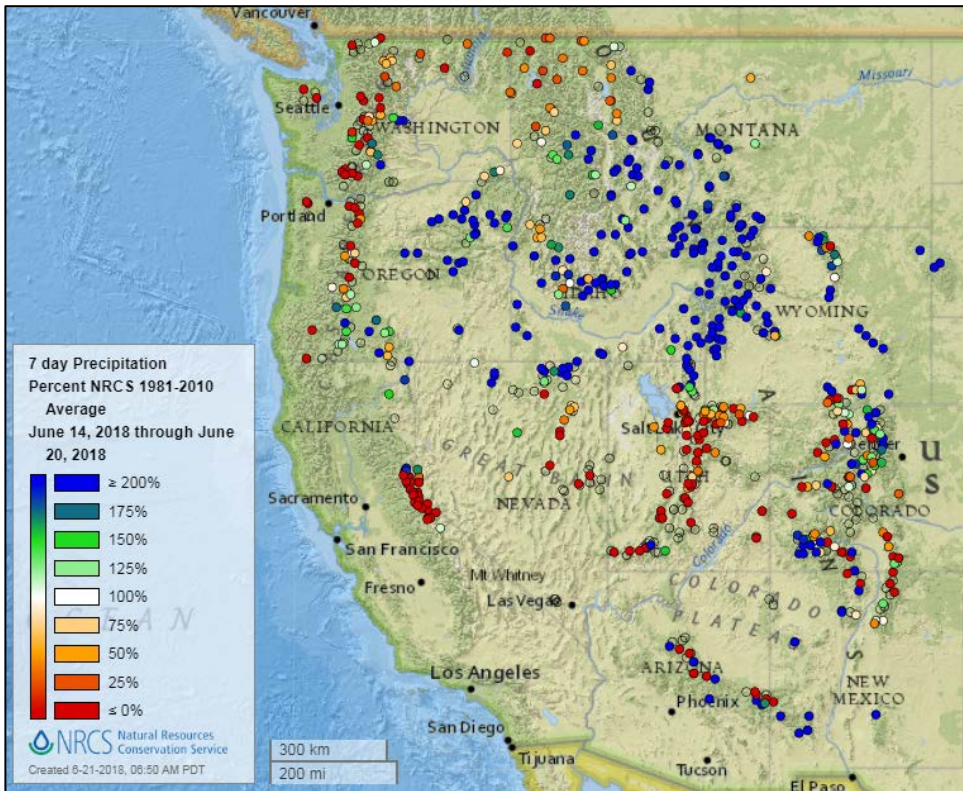
[Flash floods strike coastal south Texas, residents urged to seek higher ground](#) CNN

[Heavy rain hits Texas as Midwest reels from its own flooding](#) ABC News

[High water rescues and flooding across parts of Texas](#) ABC13 News

Precipitation

Last 7 Days, NRCS SNOTEL Network



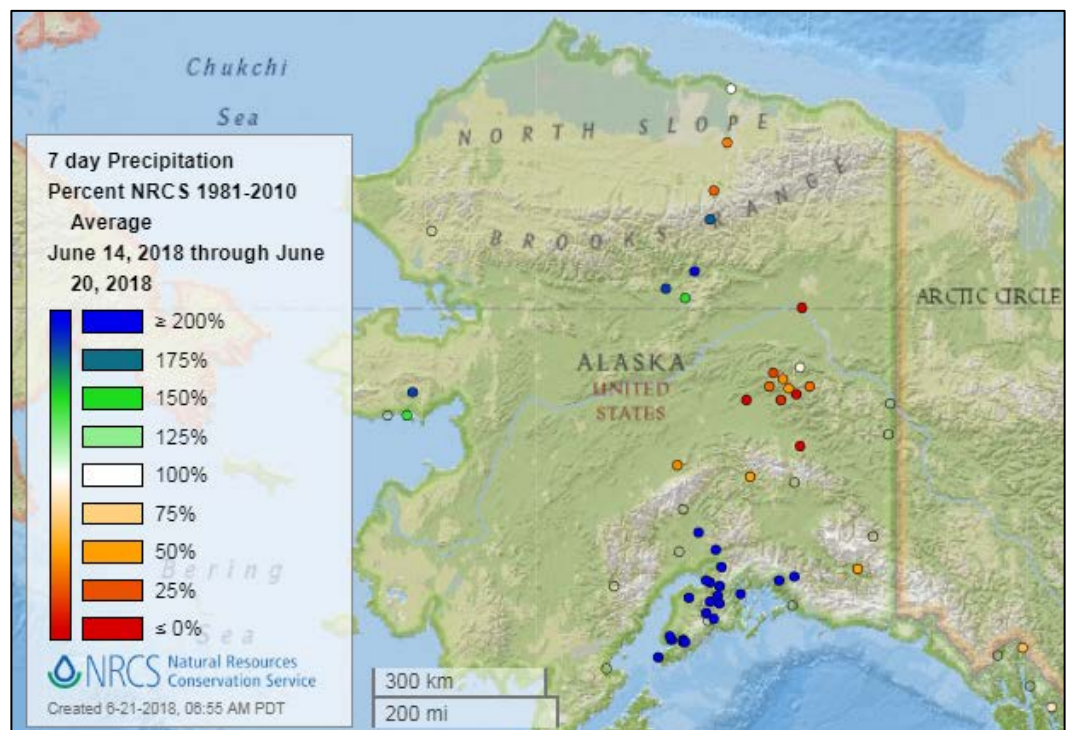
[7-day precipitation percent of average map](#)

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](#)



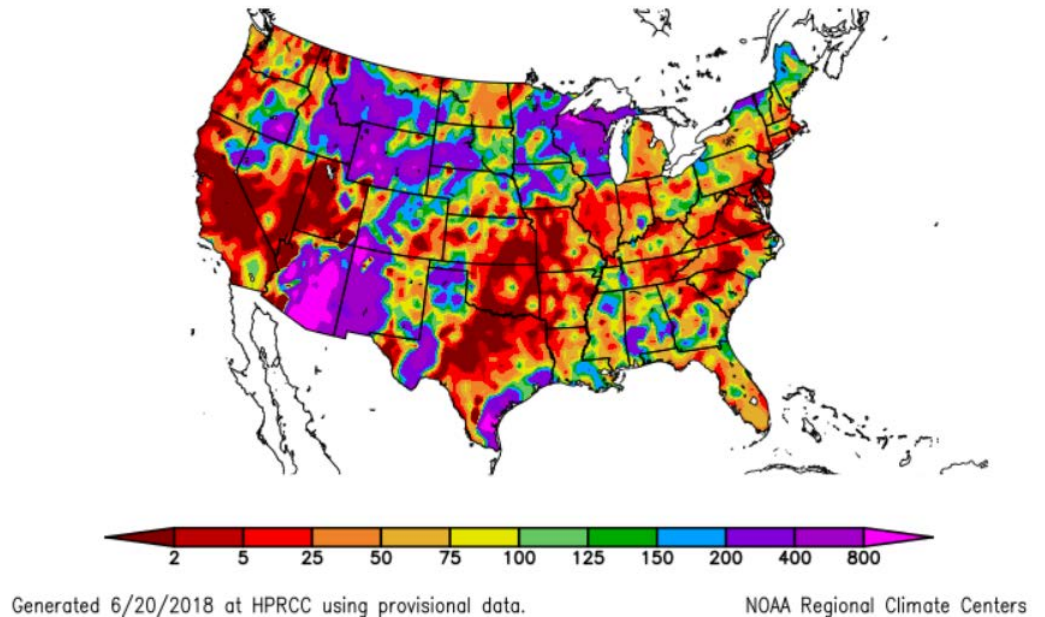
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
6/13/2018 – 6/19/2018



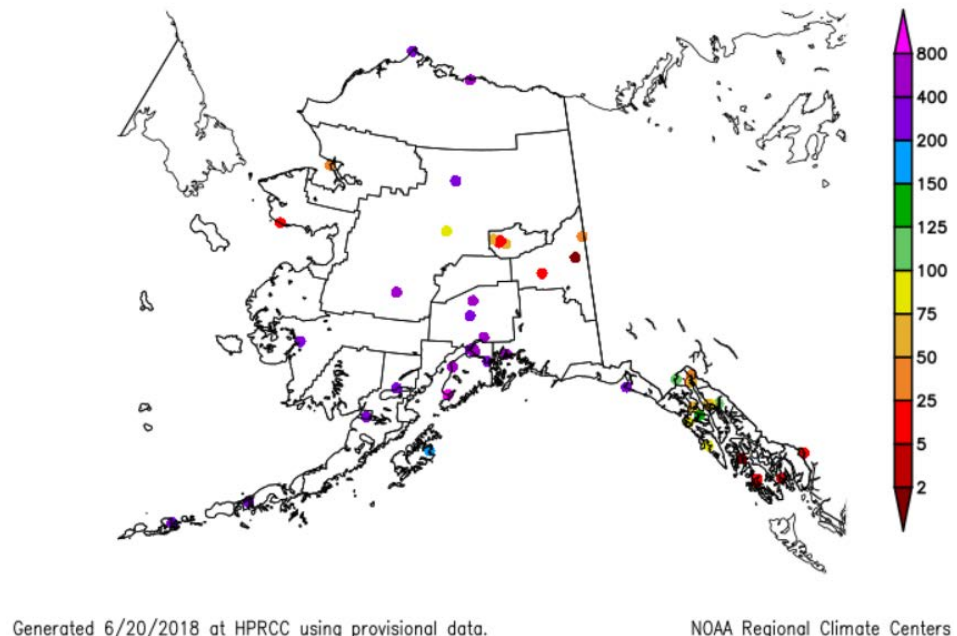
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

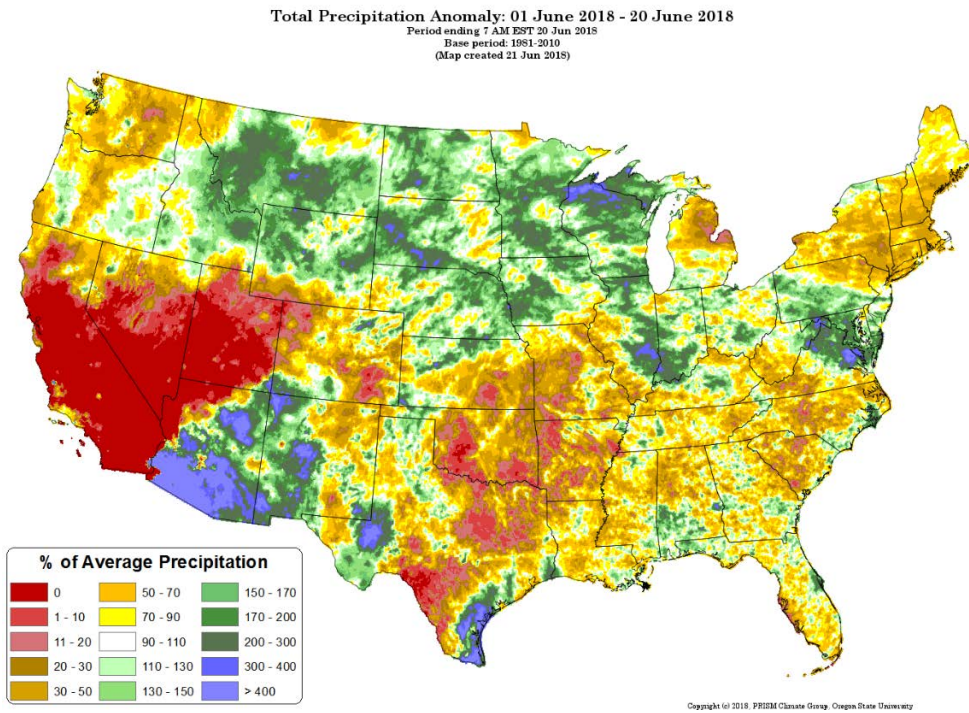
Percent of Normal Precipitation (%)
6/13/2018 – 6/19/2018



Water and Climate Update

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

Source: PRISM

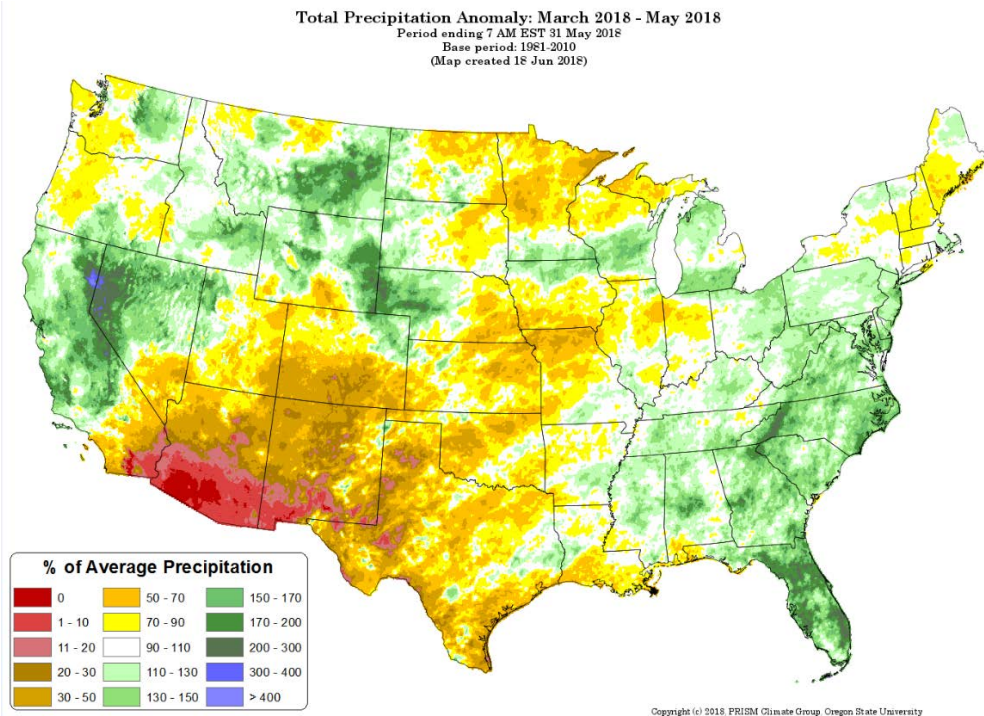


[Month-to-date national total precipitation percent of average map](#)

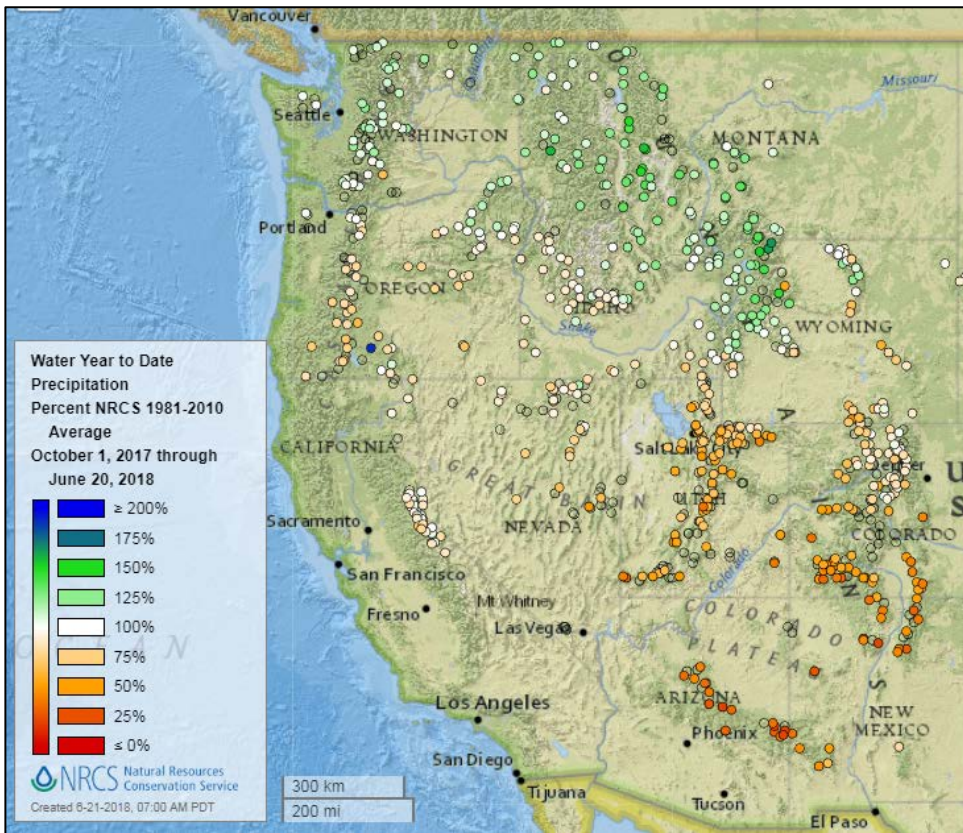
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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

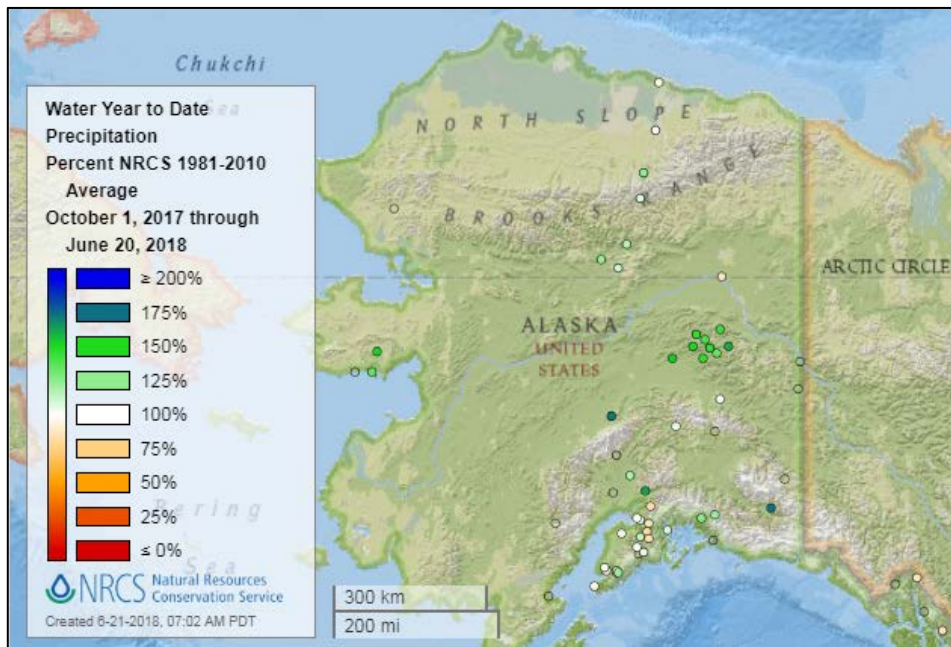


Water Year-to-Date, NRCS SNOTEL Network



[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

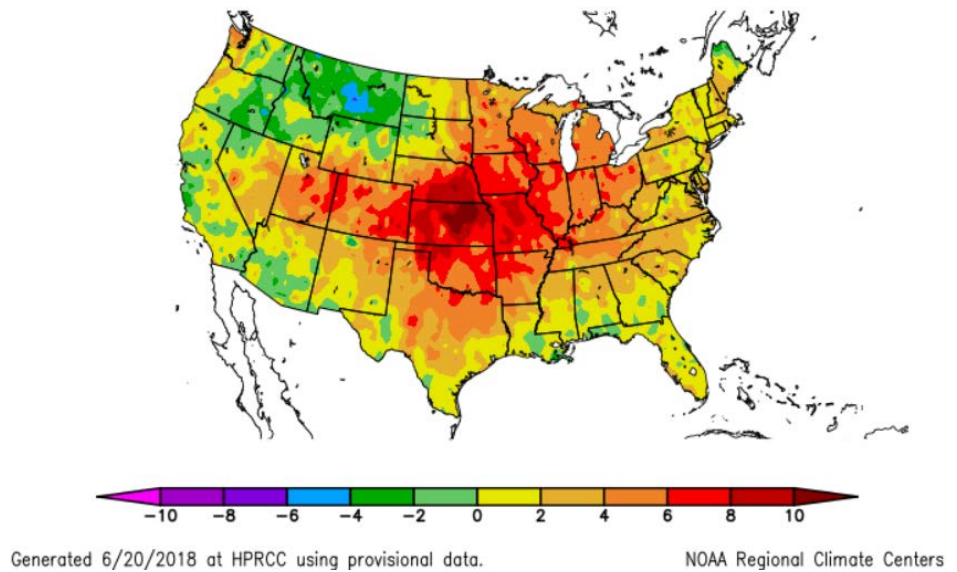
Last 7 Days, National Weather Service (NWS) Networks

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)
6/13/2018 – 6/19/2018



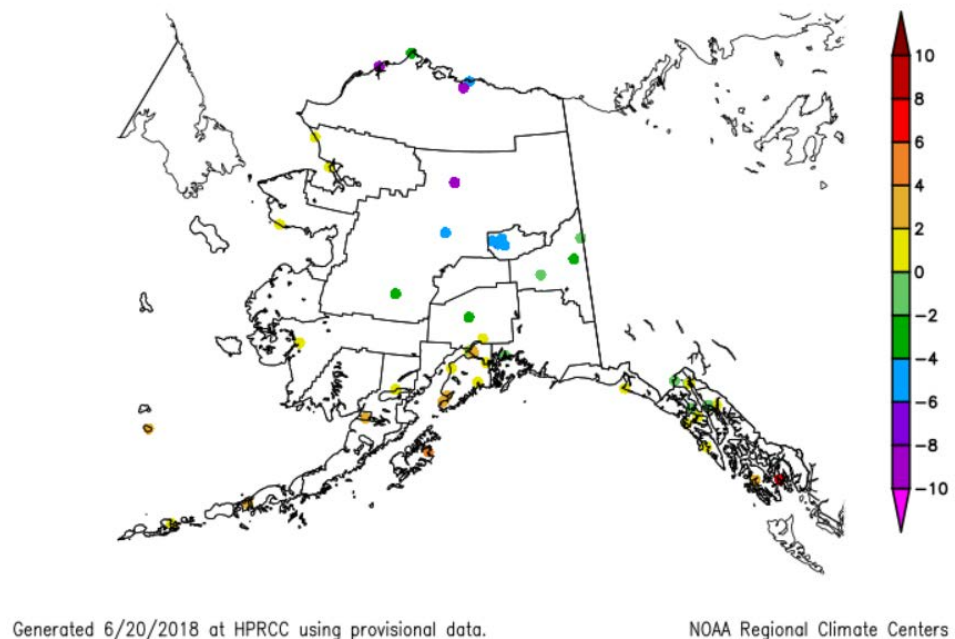
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
6/13/2018 – 6/19/2018

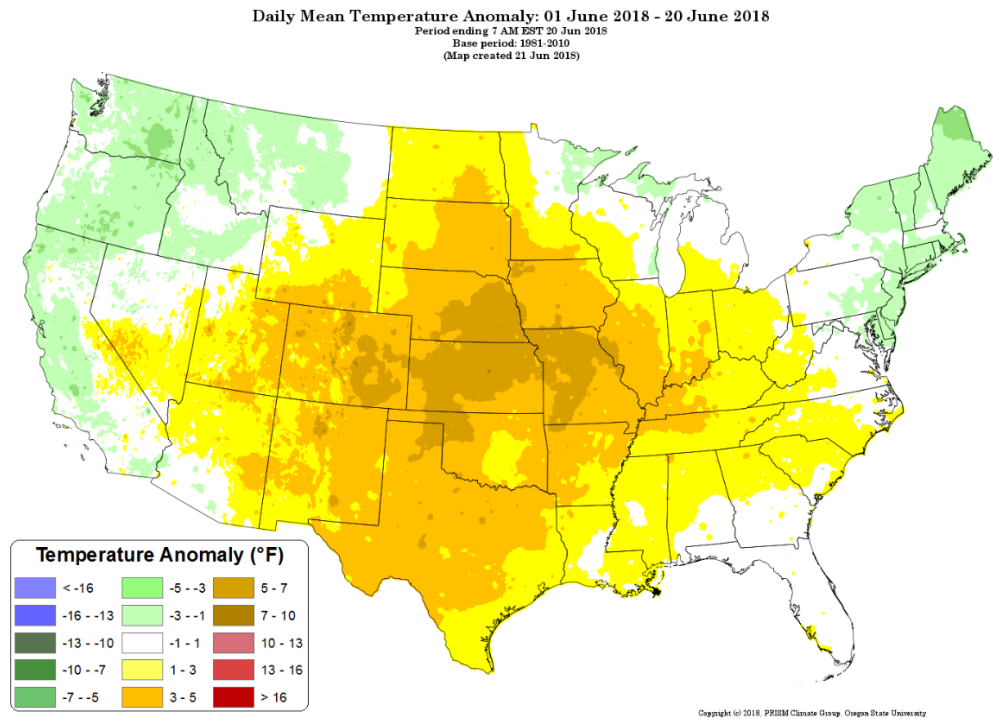


Water and Climate Update

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

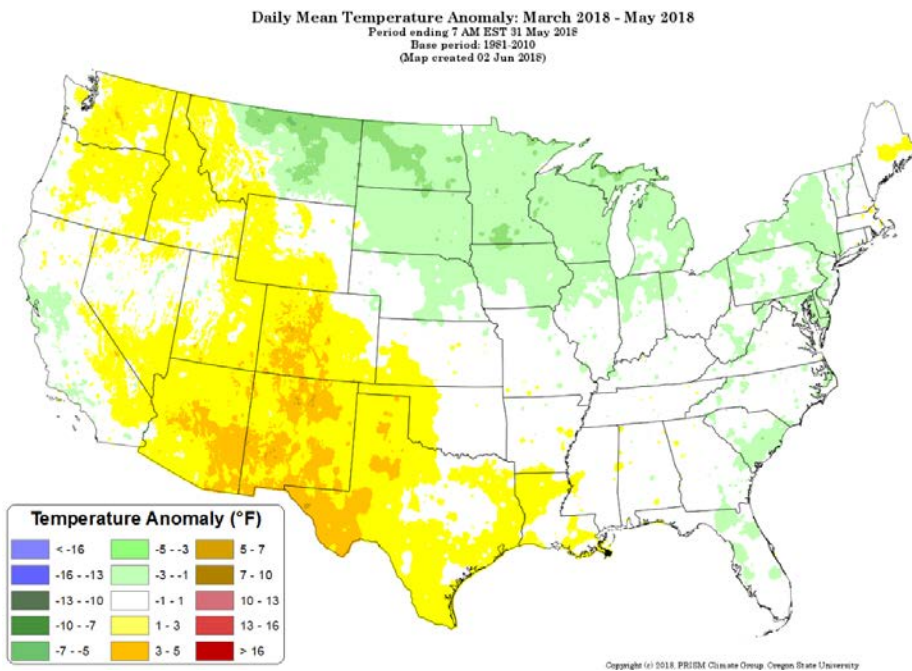
Source: PRISM

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



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

Source: PRISM

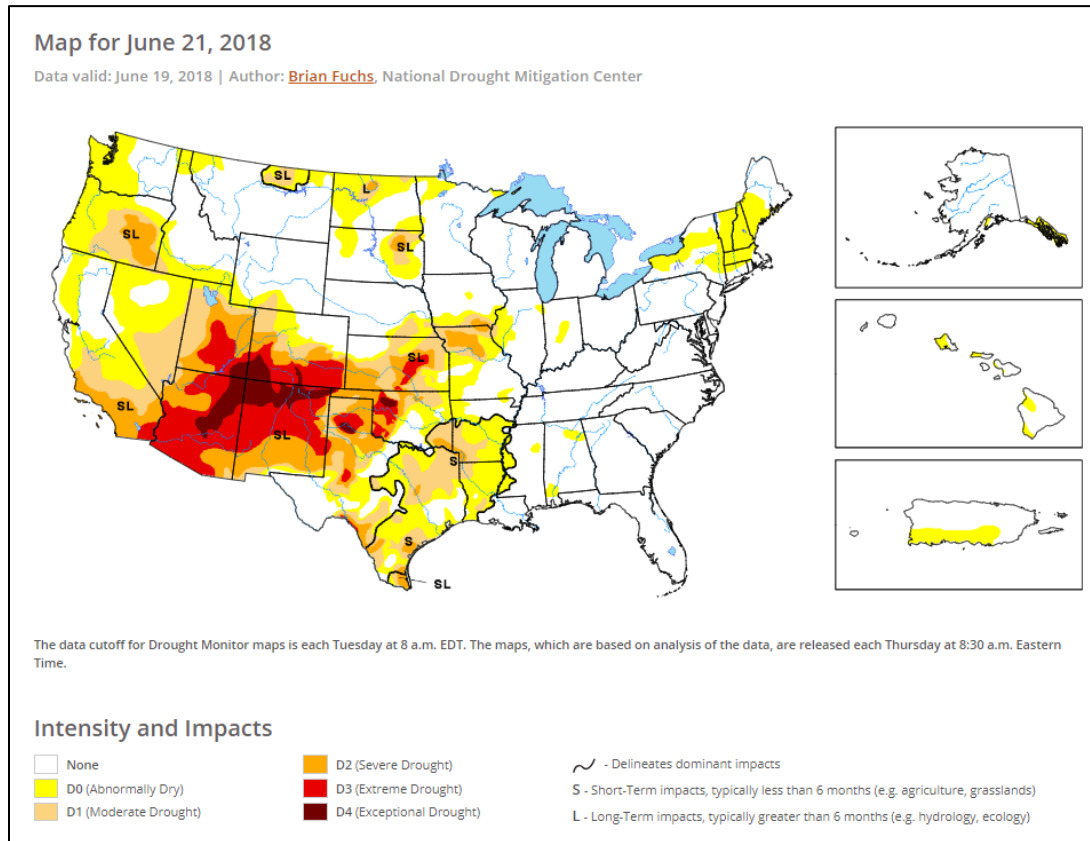


[March through May 2018
daily mean temperature
anomaly map](#)

Drought

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

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



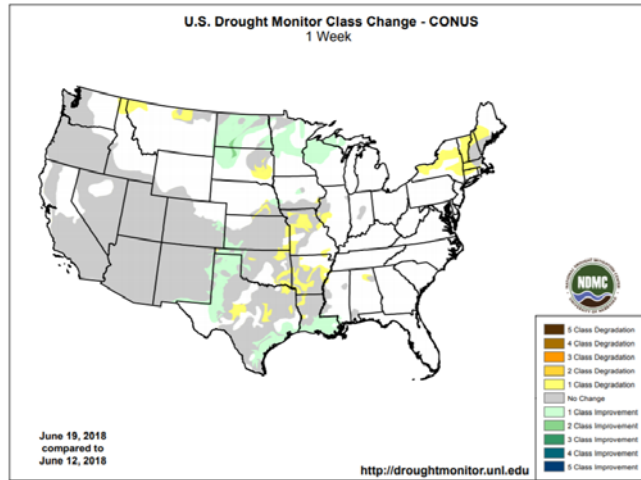
Current [National Drought Summary](#), June 21, 2018

Author: Brian Fuchs, National Drought Mitigation Center

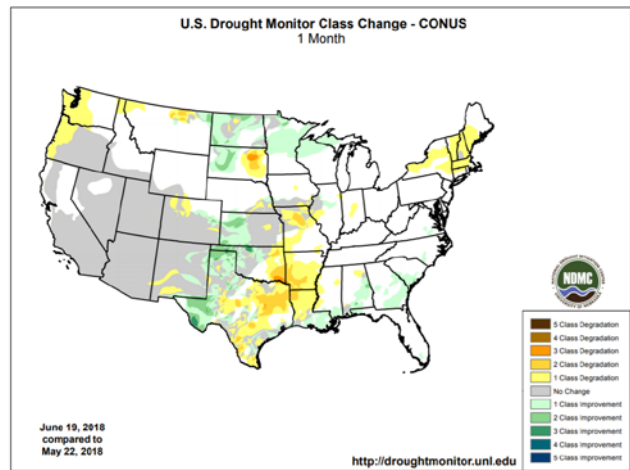
“An active weather pattern brought rain to areas of the northern Rocky Mountains, northern Plains, Upper Midwest and Southwest and along the Gulf Coast from Texas to Florida. The rain in the Southwest was from the remnants of tropical storm Bud, which came up the Gulf of California and brought much-needed moisture into the region. Tropical moisture also flowed inland off the Gulf of Mexico, bringing heavy coastal rains at the end of the current U.S. Drought Monitor period. A series of events brought heavy rains from Montana to Wisconsin along the northern tier of the country, with up to 6-8 inches of rain over much of Wisconsin for the week. Temperatures for the week were at or above normal for most of the country, with only the northern Rocky Mountains, portions of the Southwest, and the Eastern Seaboard being below normal. Areas of the Plains had triple-digit heat, with areas of Nebraska and Kansas having departures of 6-10 degrees above normal for the week.”

Changes in Drought Monitor Categories over Time

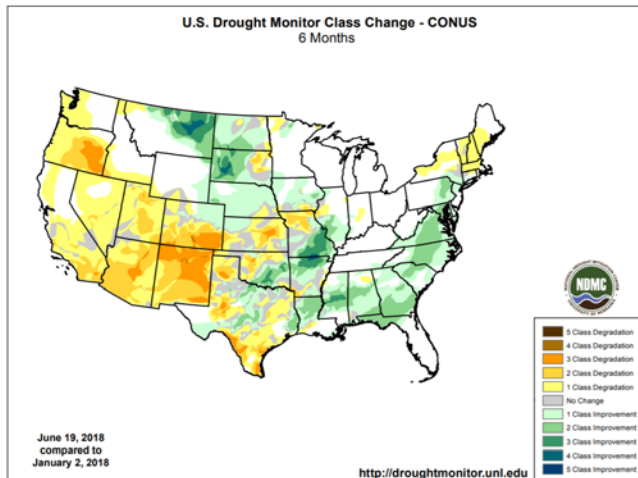
1 Week



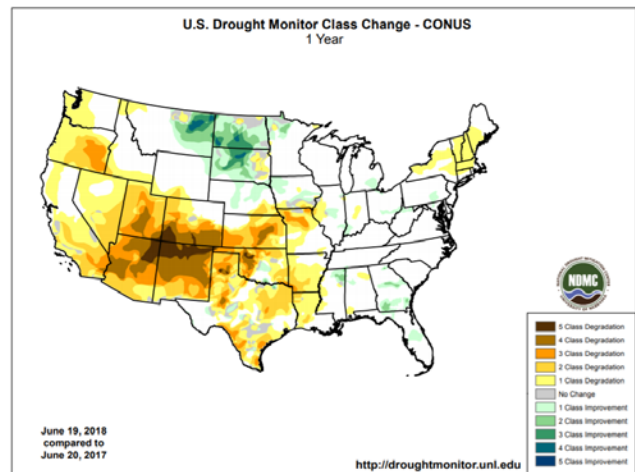
1 Month



6 Months



1 Year

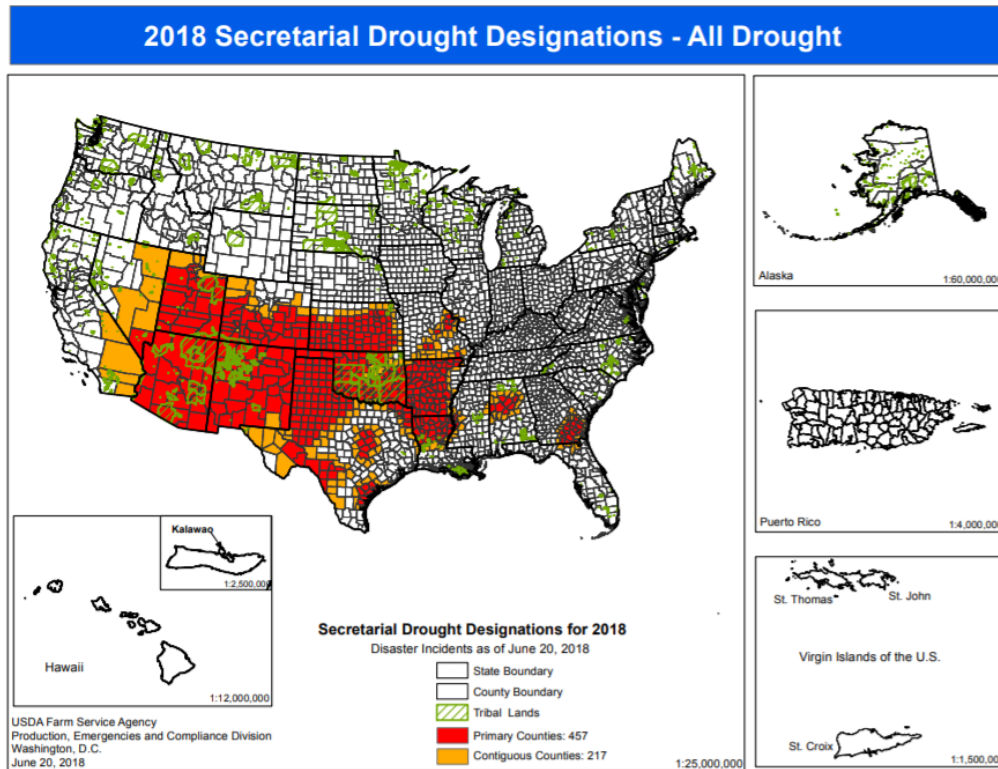


Changes in drought conditions over the last 12 months

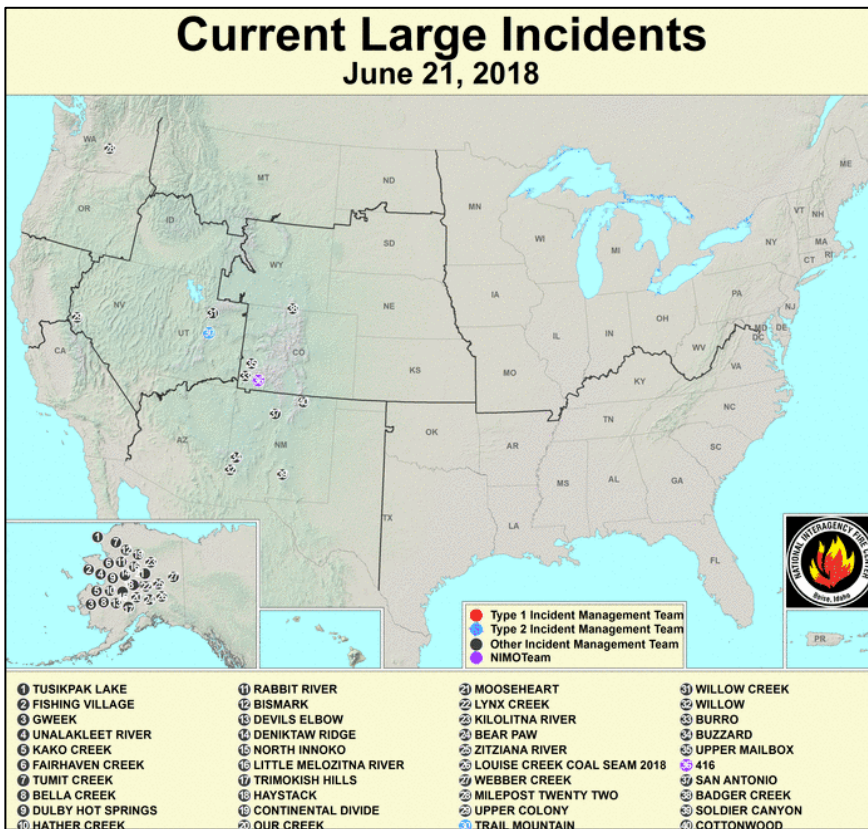
Highlighted Drought Resources

- [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



Wildfires: USDA Forest Service Active Fire Mapping



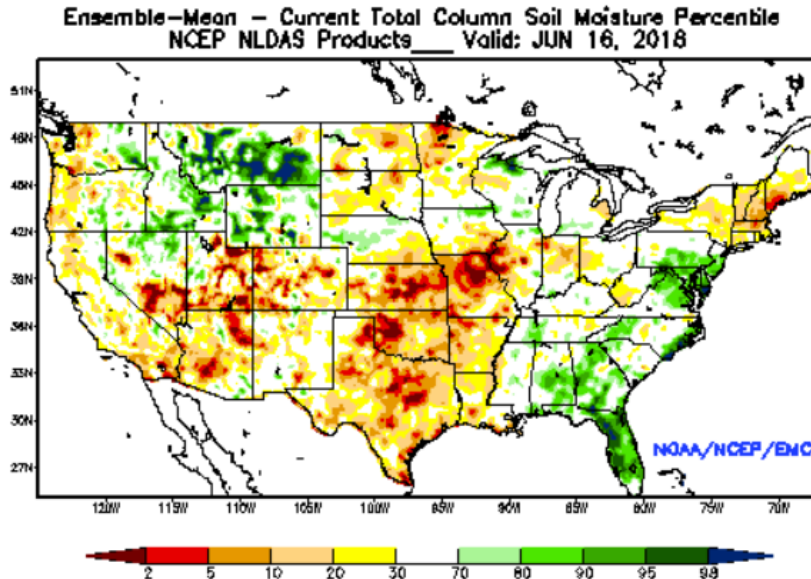
Highlighted Wildfire Resources

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

Other Climatic and Water Supply Indicators

Soil Moisture

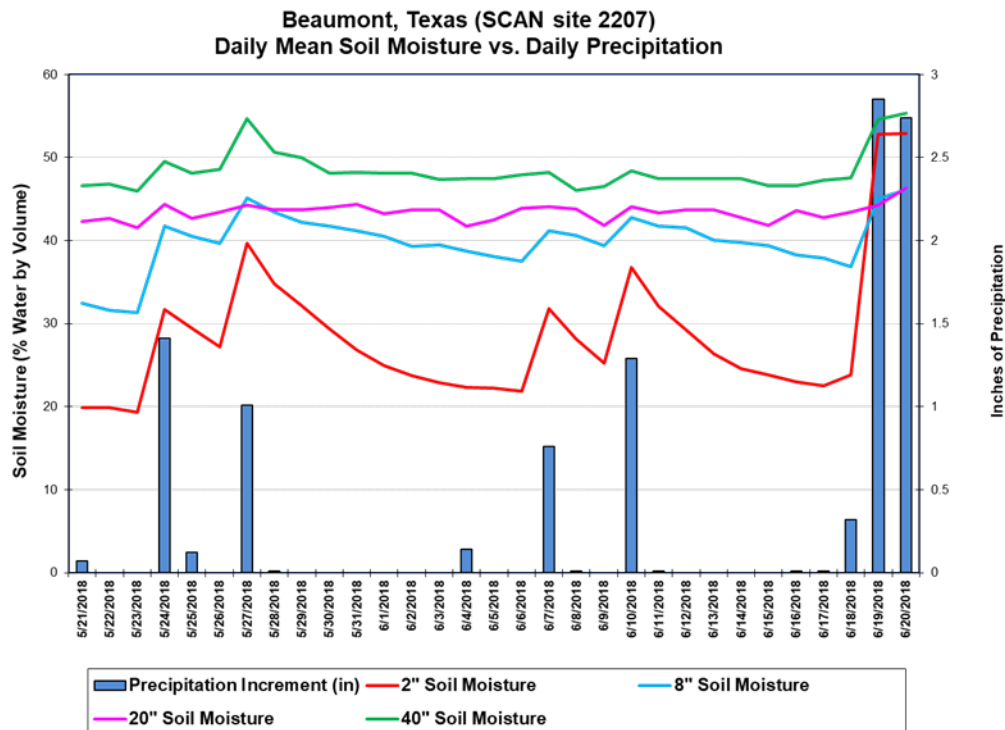
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of June 16, 2018.

Soil Moisture Data

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



This chart illustrates precipitation events over the last 30 days at the [Beaumont SCAN site 2207](#) located on the Texas Gulf Coast. The site has experienced several precipitation events during the month. The largest event on June 19-20 produced 5.59 inches of precipitation and increased the soil moisture at all sensor depths.

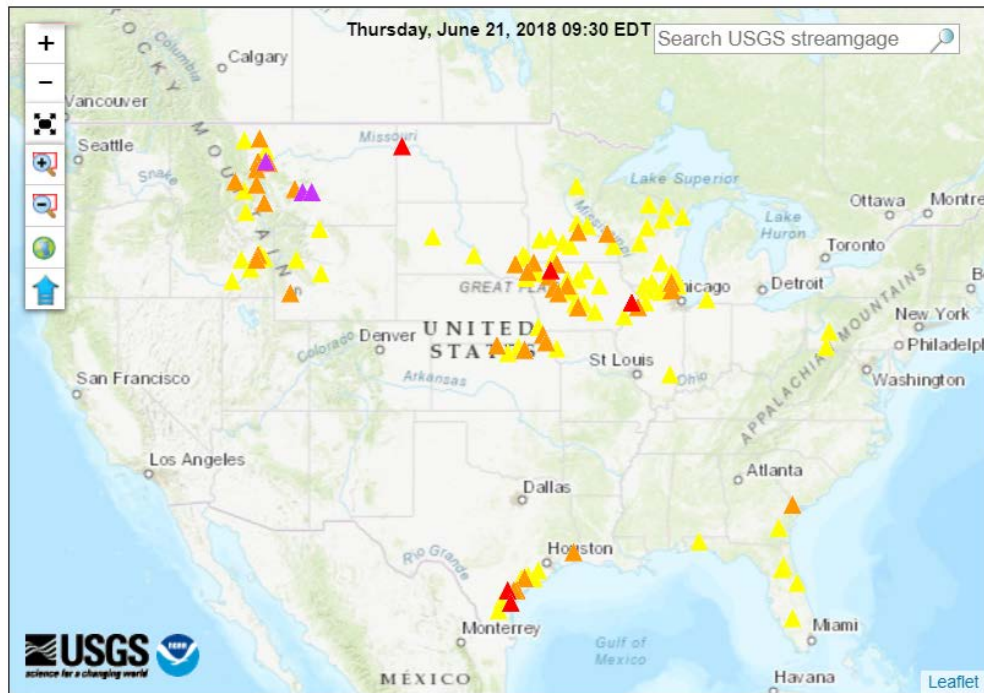
Soil Moisture Data Portals

- [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



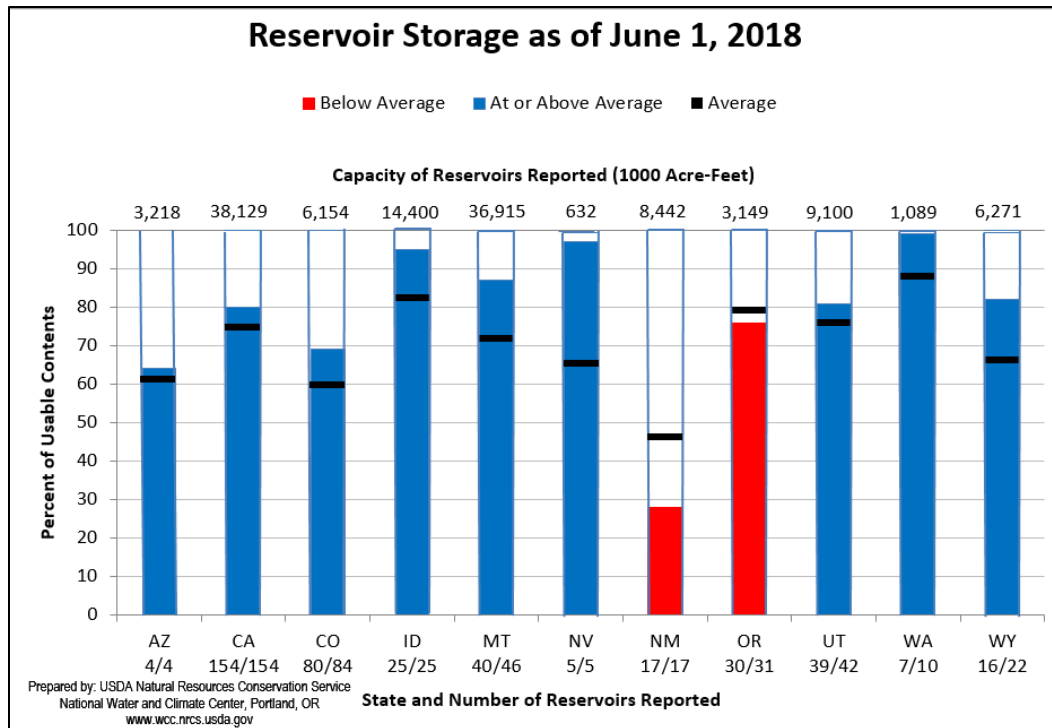
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
△ Streamgage with flood stage ○ Streamgage without flood stage						

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



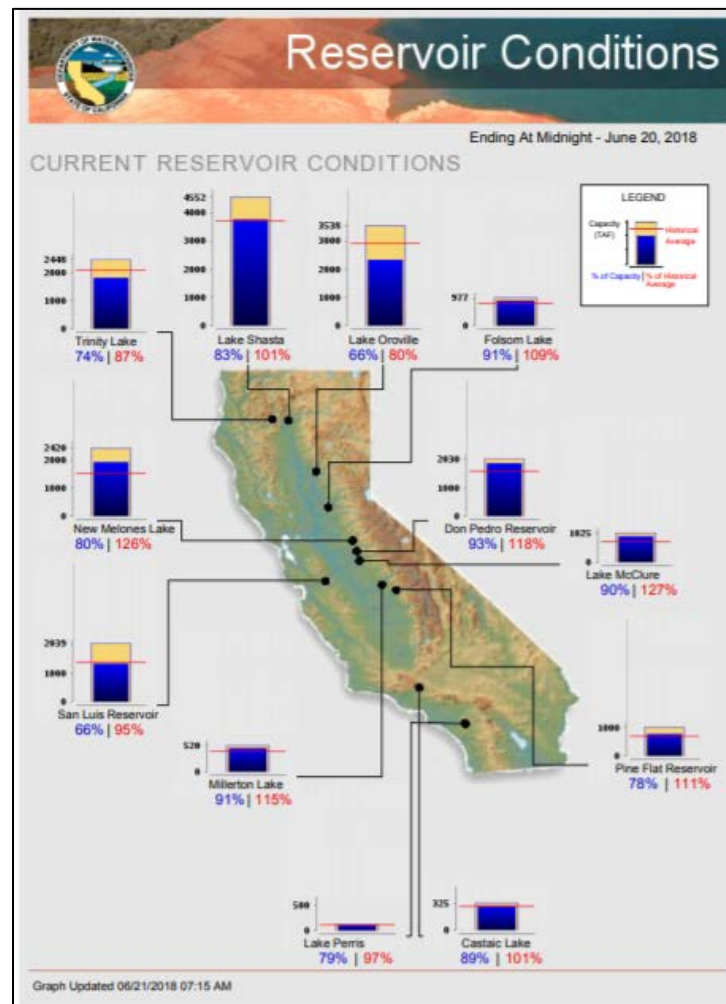
June 1 Reservoir Storage: [Chart](#) | [Dataset](#)

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](#)

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

Short- and Long-Range Outlooks

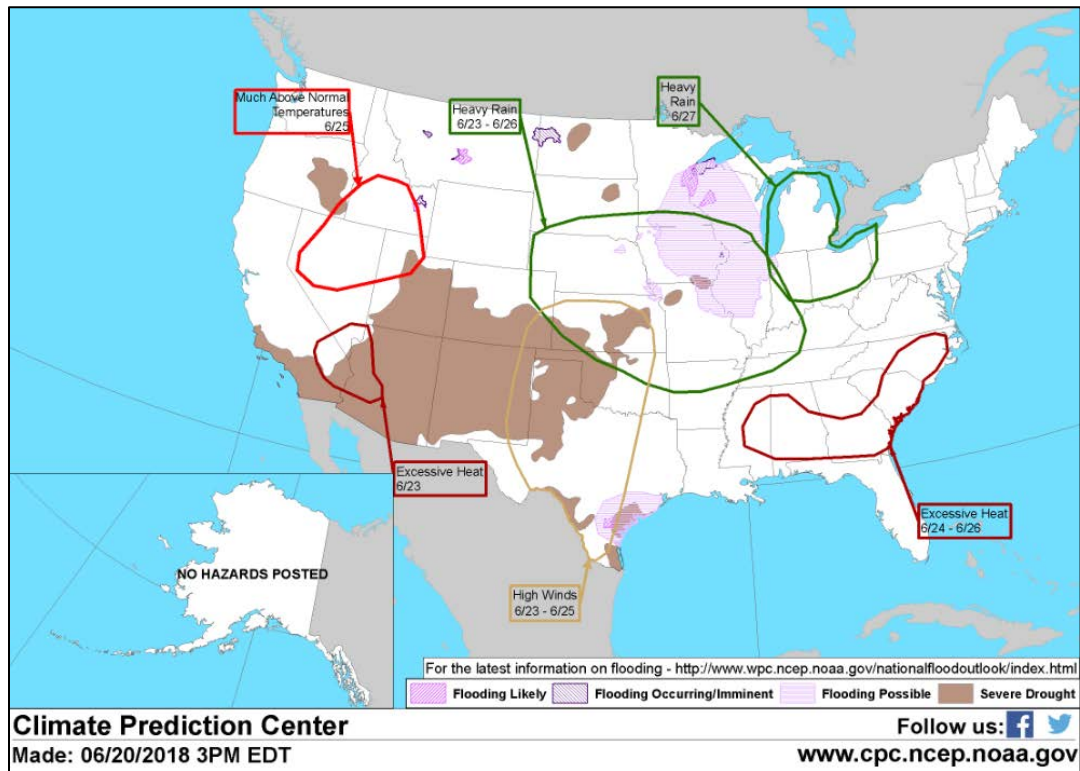
Agricultural Weather Highlights

Author: Mark Brusberg, Chief Meteorologist, USDA/OCE/WAOB

[National Outlook, Thursday, June 21](#): “Locally heavy showers will linger over the next few days along the slow-moving frontal boundary stretching from the southern Rockies to the mid-Atlantic States. Three-day rainfall totals of 1 to 3 inches are expected throughout the Ohio and Tennessee Valleys, and from eastern Oklahoma to the Mississippi Delta. Heavy rain is also forecast for the mid-Atlantic Region but drier weather is expected to continue in cotton areas along the southern Atlantic Coast. Elsewhere, mild, showery weather in the Northwest is forecast to gradually push eastward toward the northern Plains. In contrast, warm, dry weather will dominate the remainder of the West, including California and the Four Corners Region, with a gradual abatement of stressful heat in southern agricultural areas. The NWS 6- to 10-day outlook for June 26 – 30 depicts above-normal rainfall stretching from the northern Plains and Great Lakes southeastward through Florida. Drier conditions are expected in New England and parts of the mid-Atlantic Coast, central and southern Texas, the Pacific Northwest, and much of the Four Corners Region. Above-normal temperatures are expected nearly nationwide.”

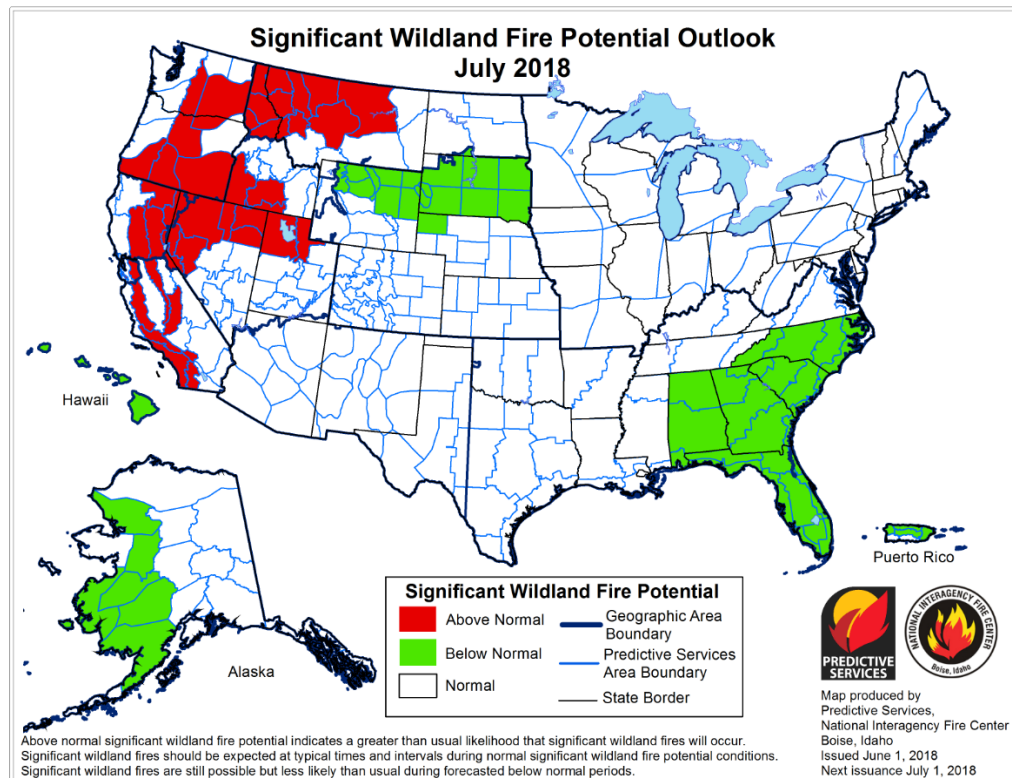
Weather Hazard Outlook June 23 – 27, 2018

Source: Climate Prediction Center



Significant Wildland Fire Potential Outlook

Source: National Interagency Fire Center

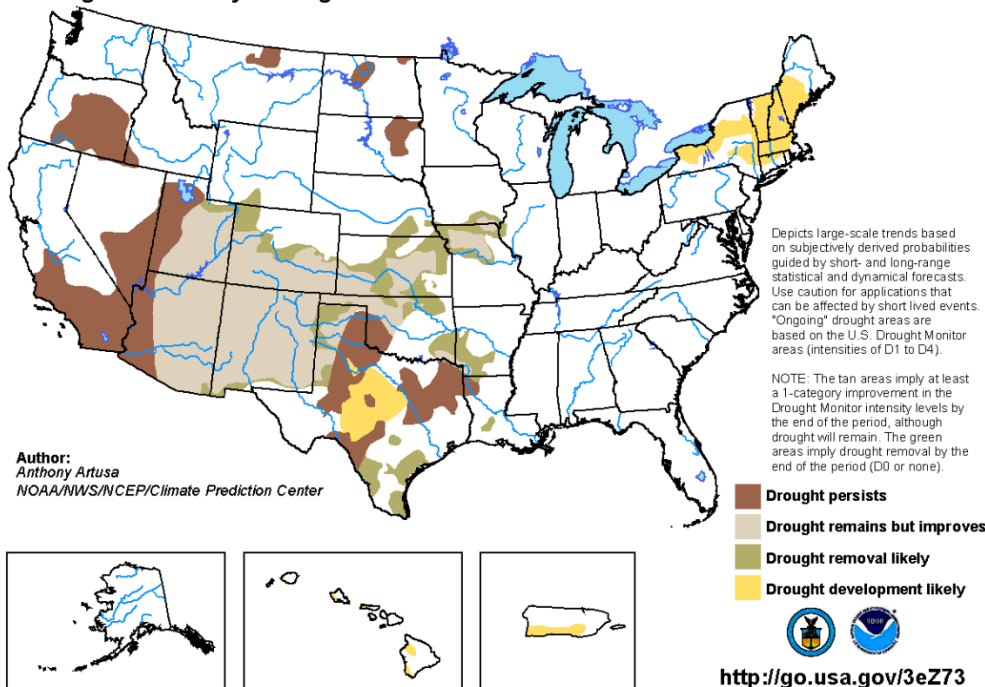


Seasonal Drought Outlook: [June 21 – September 30, 2018](#)

Source: National Weather Service

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

Valid for June 21 - September 30, 2018
Released June 21, 2018

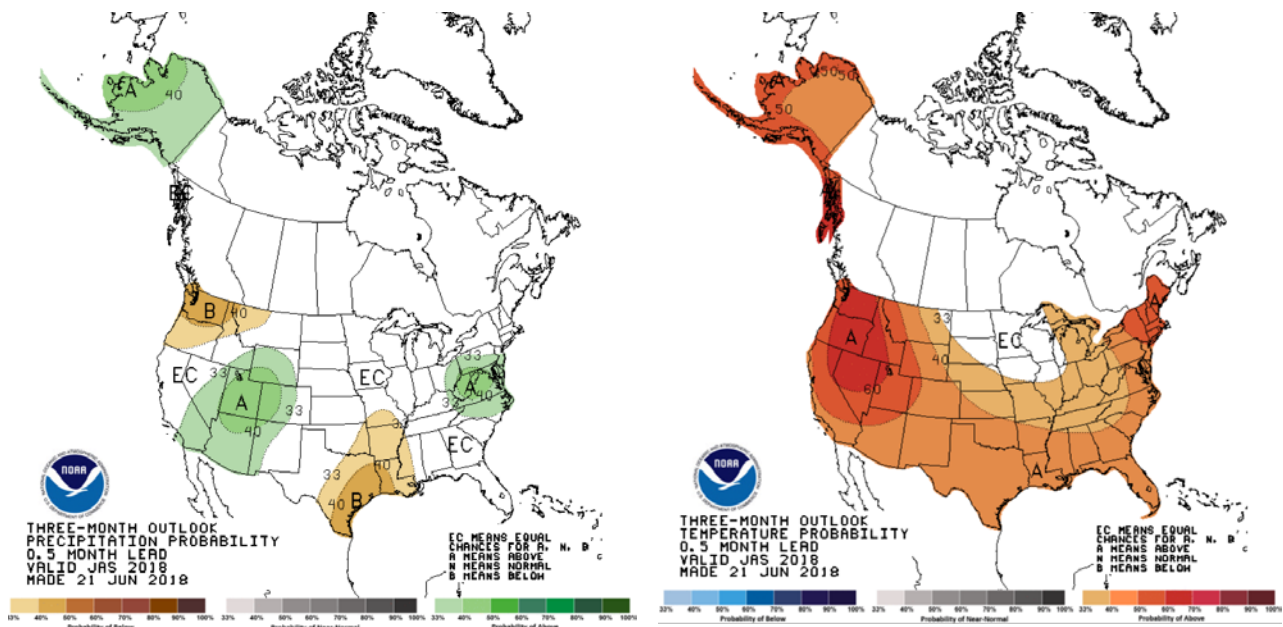


Climate Prediction Center 3-Month Outlook

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](#).