

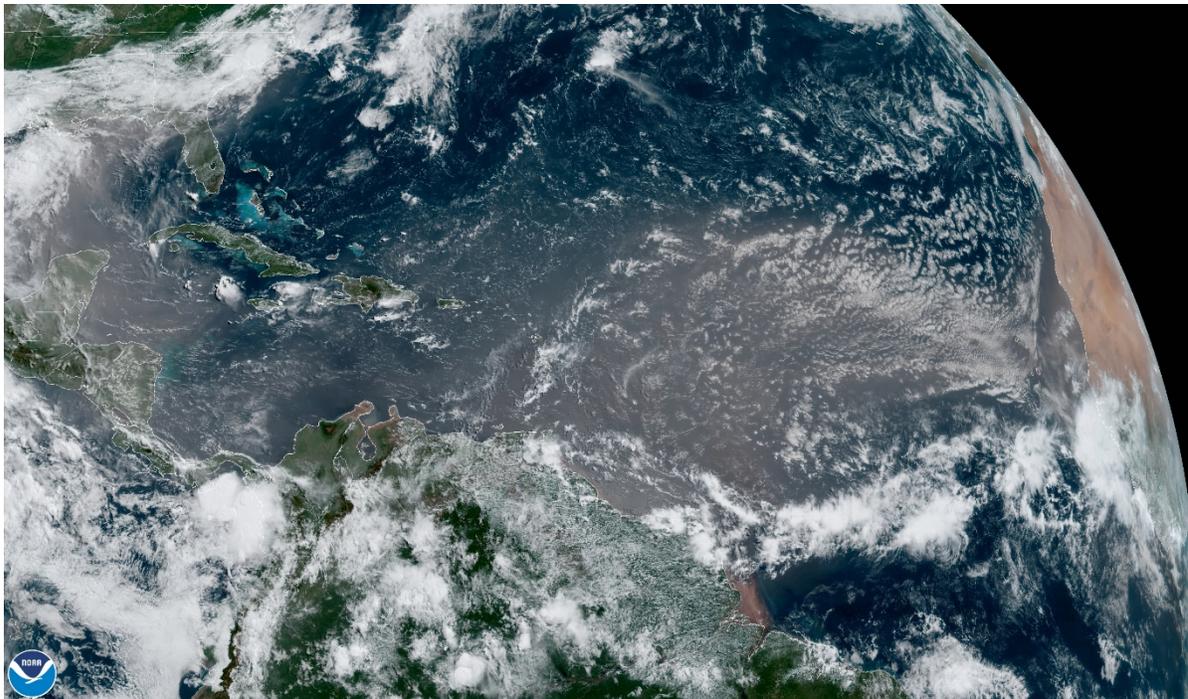
Water and Climate Update

June 25, 2020

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	More Information	18
Drought	8		

Dust plume from the Sahara reaches the U.S.



25 Jun 2020 14:00Z NOAA/NESDIS/STAR GOES-East ABI GEOCOLOR

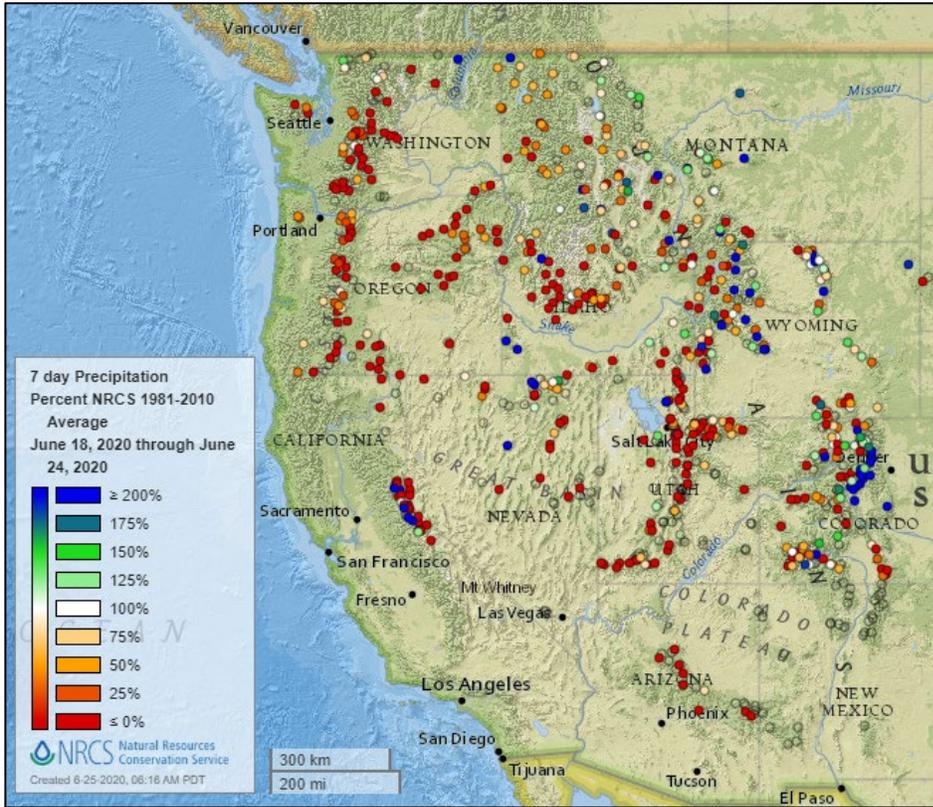
The NOAA GOES East satellite image from today captures the large dust plume from the Sahara stretching to the U.S. Skies have been darkened to a hazy brown with visibility reduced to five miles in Puerto Rico and across the Caribbean. Air quality has degraded to near historic low levels in that area. The cloud of dust is the largest such event to reach the U.S. in 50 years. The plume will reach east Texas today, with a decrease in air quality expected.

Related:

- [Saharan dust plume sweeping toward Gulf Coast is most significant since the 1970s](#) – The Washington Post
- [Saharan dust plume: The skies are dark in the Caribbean and the historic dust plume will soon](#) - CNN
- [Massive Saharan dust plume swirling across Atlantic Ocean spotted from space](#) – Space.com
- [Caribbean chokes on monster Saharan dust cloud headed toward the U.S.](#) - Reuters
- [Sahara Dust Storm Hits Jamaica and Puerto Rico on Way to U.S.](#) - Newsweek
- [Here Comes the Saharan Dust](#) - NASA
- [The Saharan Air Layer](#) – NOAA

Precipitation

Last 7 Days, NRCS SNOTEL Network

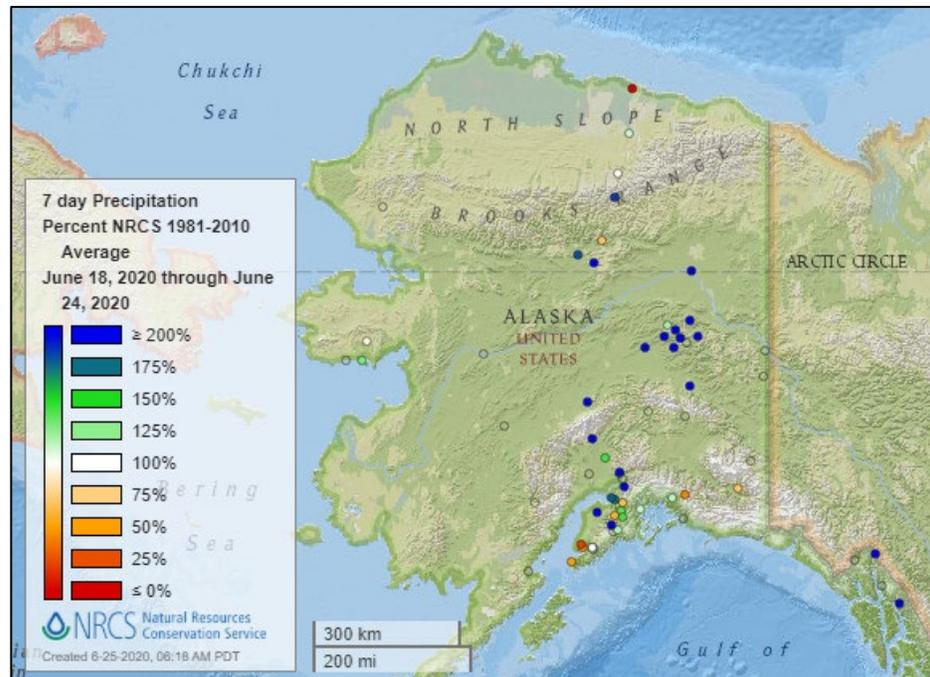


[7-day precipitation percent of average map](#)

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](#)



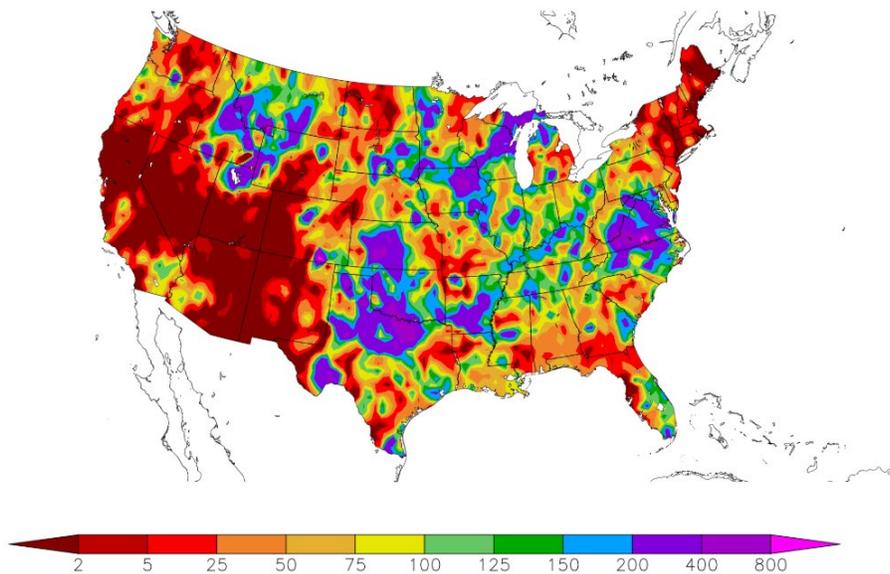
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
6/17/2020 – 6/23/2020



Generated 6/24/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

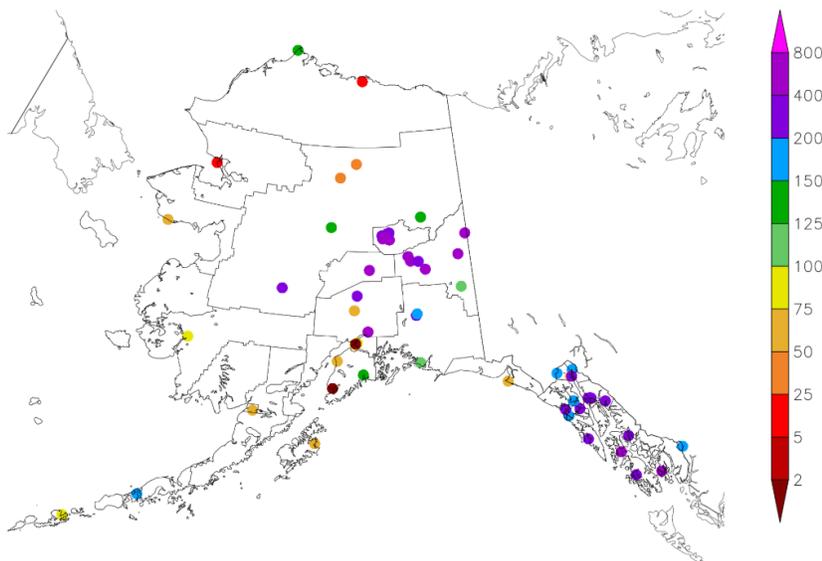
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
6/17/2020 – 6/23/2020



Generated 6/24/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

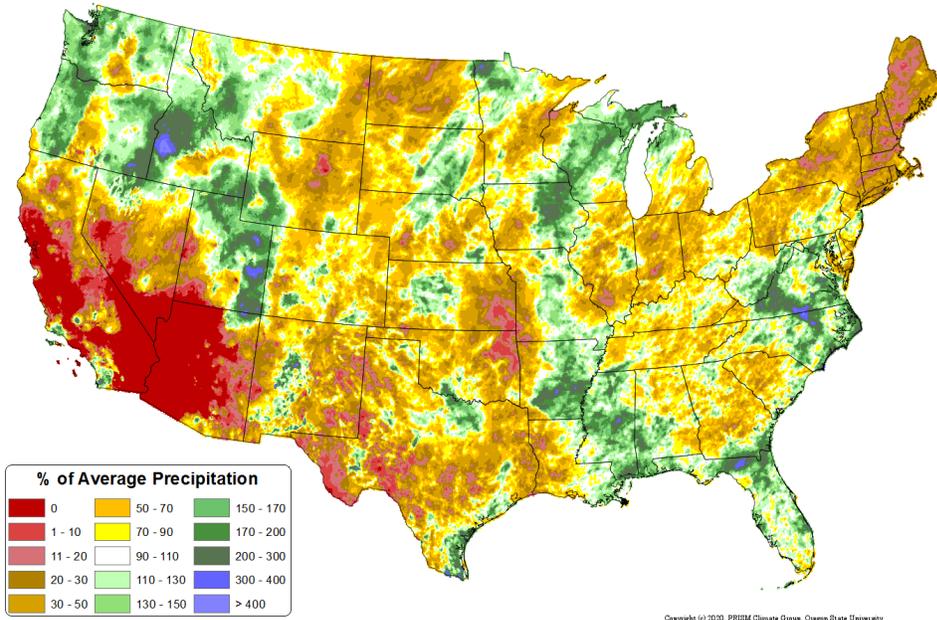
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Jun 2020 - 24 Jun 2020
Period ending 7 AM EST 24 Jun 2020
Base period: 1981-2010
(Map created 25 Jun 2020)

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

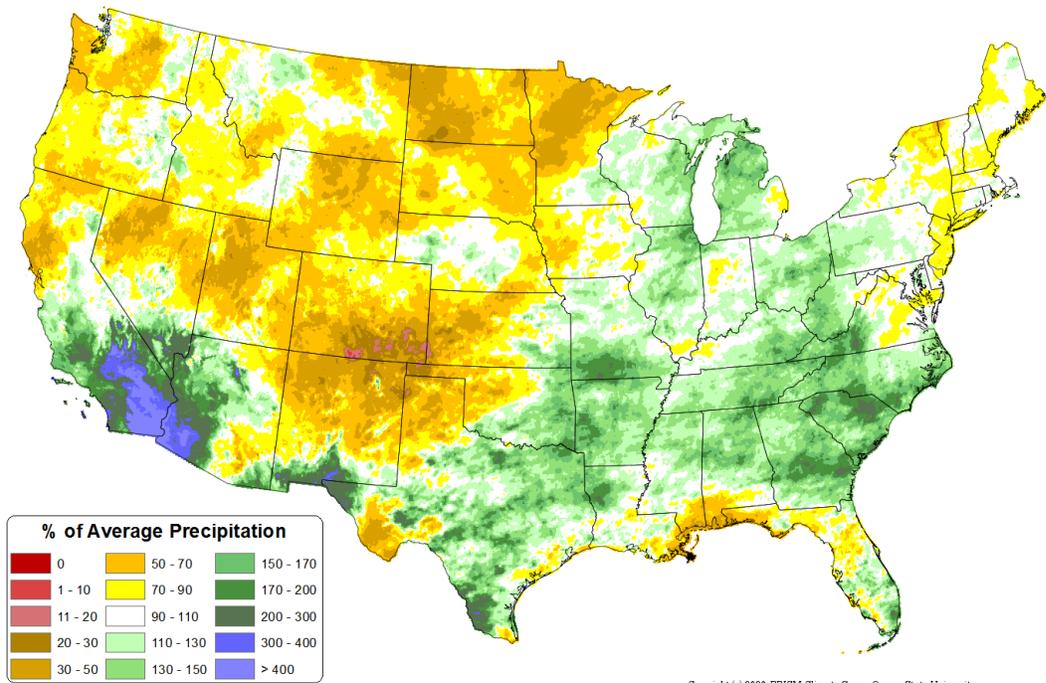


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

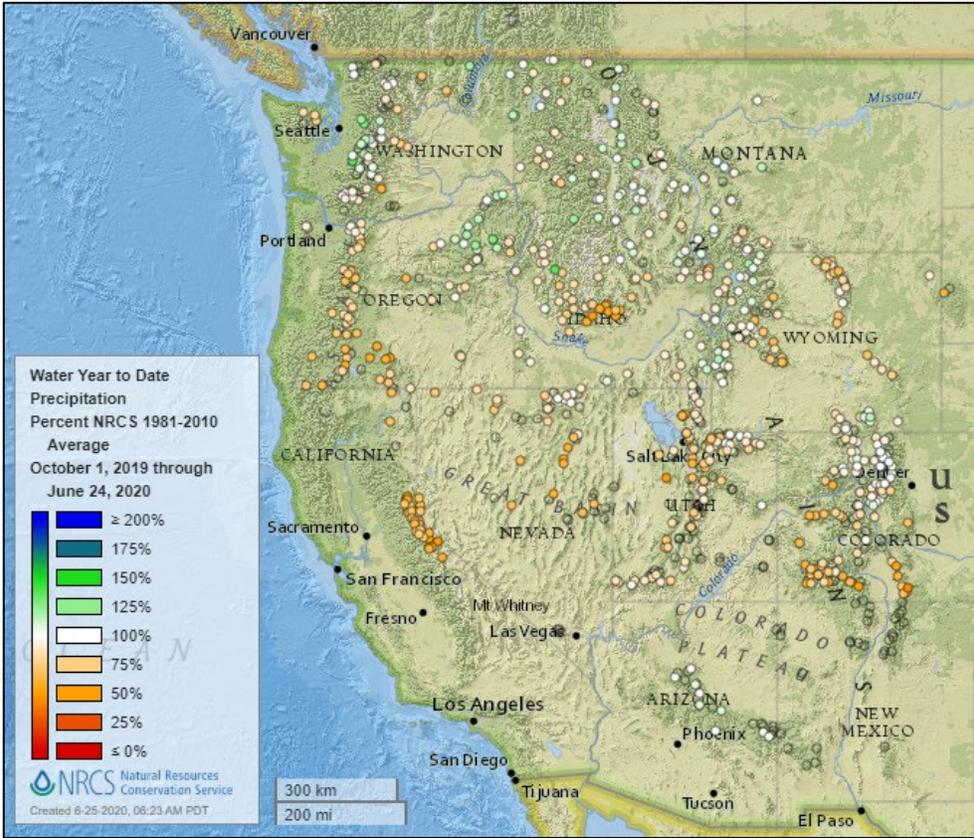
Source: PRISM

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

Total Precipitation Anomaly: Mar 2020 - May 2020
Period ending 7 AM EST 31 May 2020
Base period: 1981-2010
(Map created 02 Jun 2020)

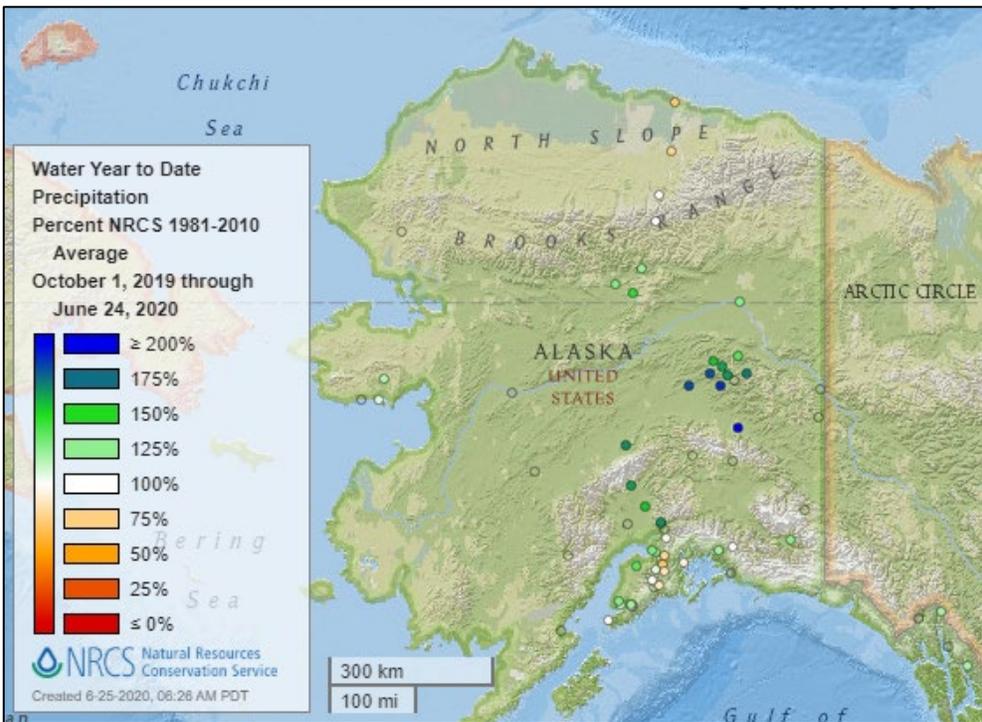


Water Year-to-Date, NRCS SNOTEL Network



[2020 water year-to-date precipitation percent of average map](#)

See also:
[2020 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2020 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2020 water year-to-date precipitation values \(inches\) map](#)

Temperature

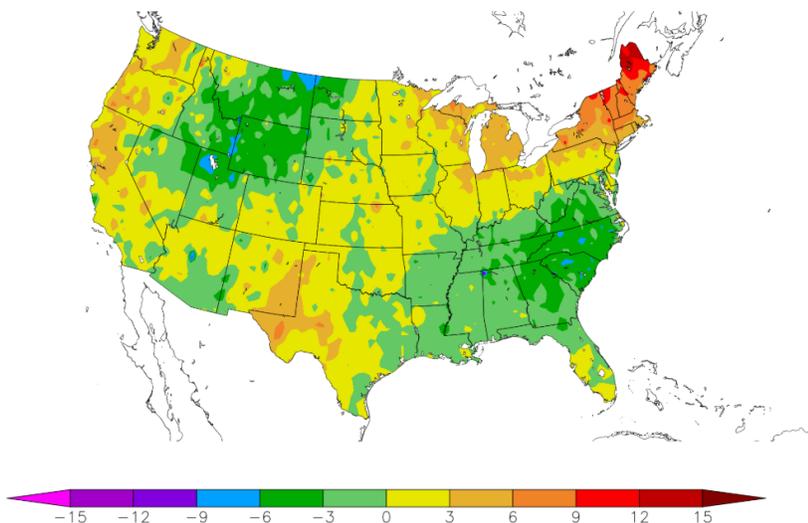
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the contiguous U.S.

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

Departure from Normal Temperature (F)
6/17/2020 – 6/23/2020



Generated 6/24/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

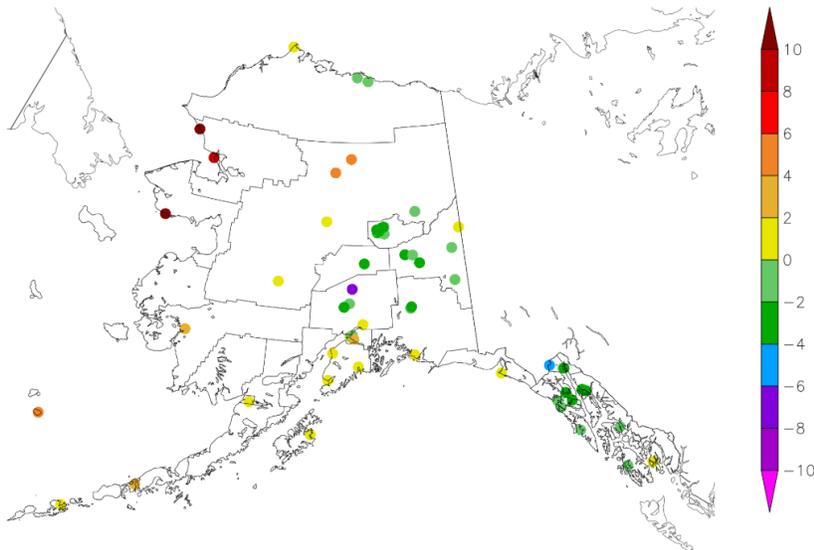
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
6/17/2020 – 6/23/2020



Generated 6/24/2020 at HPRCC using provisional data.

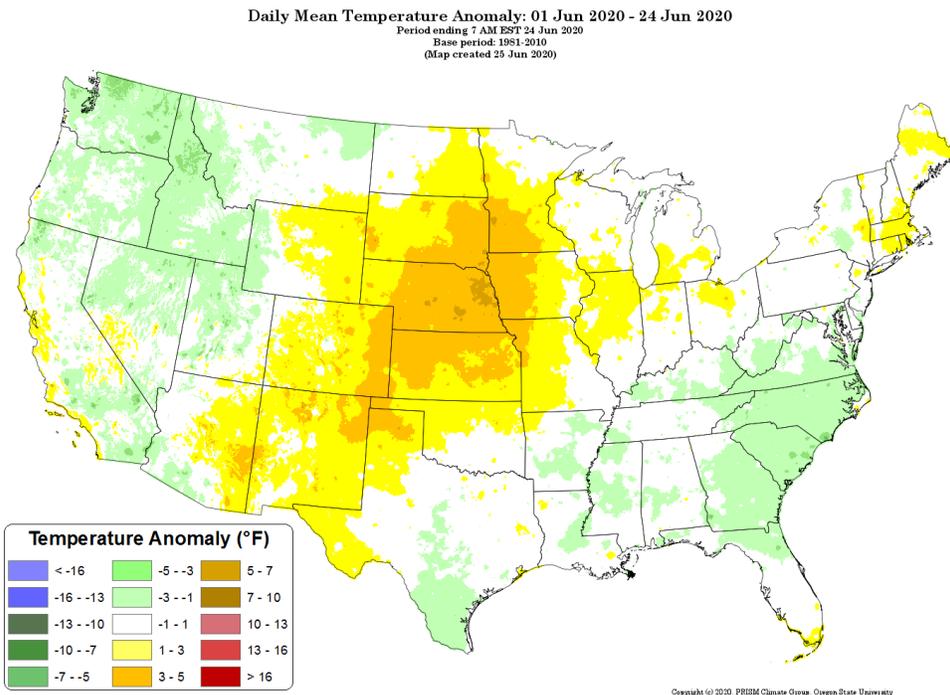
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

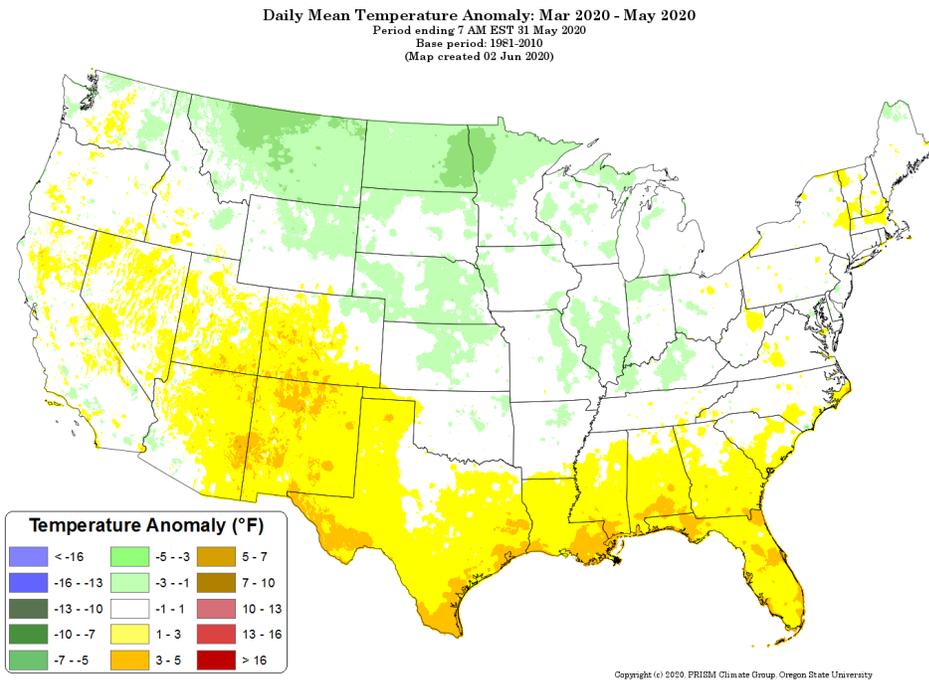
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[March through May 2020 daily mean temperature anomaly map](#)



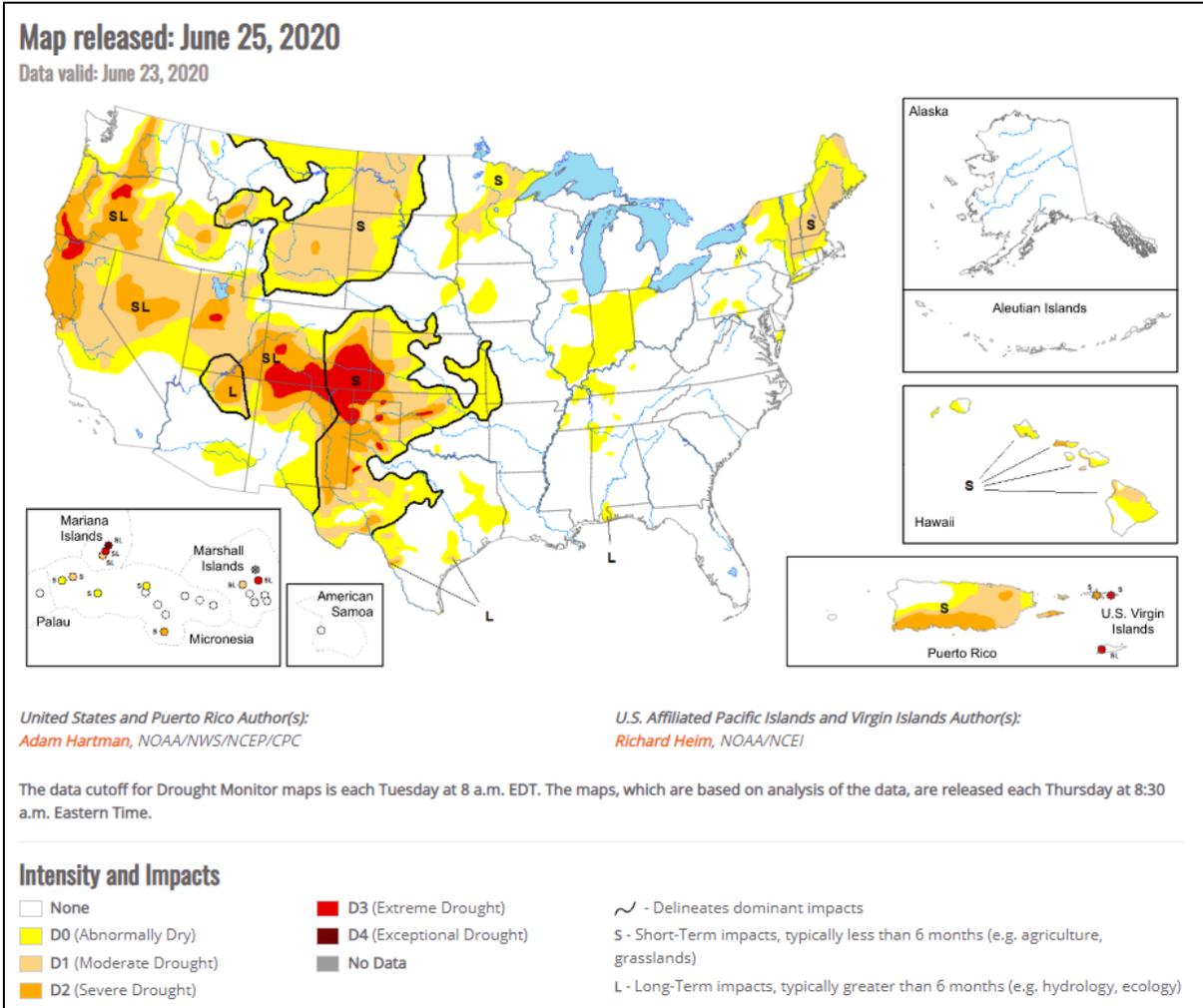
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), June 25, 2020

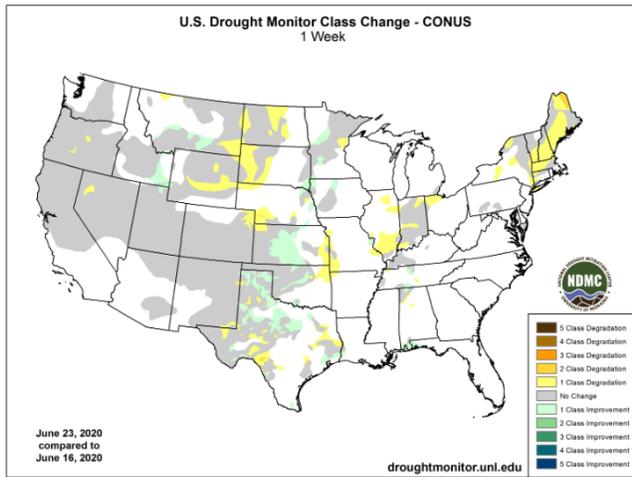
Source: National Drought Mitigation Center

“Precipitation fell across much of the northern tier states and the eastern half of the CONUS this week. Much of the eastern United States has experienced increased dryness over the past 30-60 days and above normal temperatures. The heaviest rains missed many of the D0 and adjacent areas, warranting D0 expansion for several locations in the eastern CONUS. The Northeast (New York to New England) has seen conditions drastically deteriorate this week. Agricultural impacts are being reported across many areas in New England, particularly Maine, and 7-day USGS streamflows are below the 10th percentile for much of the Northeast Region. Areas just east of the Rockies missed out on some of the heavier precipitation this week, which fell over central Kansas, central Oklahoma, and northern Texas. This allowed for some improvement, mainly in areas that with D0 and D1 designations at the start of the week. However, severe (D2) and extreme (D3) drought designations remained for many locations in the Texas and Oklahoma Panhandles, eastern New Mexico and Colorado, and western Kansas. Mixed improvements and degradation in the northern Rockies and High Plains.”

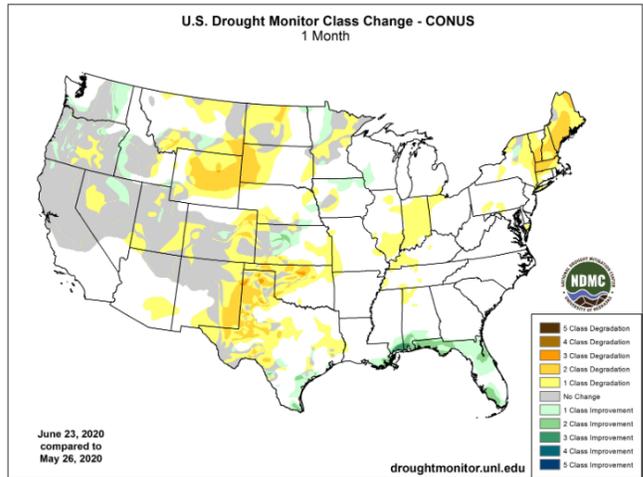
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

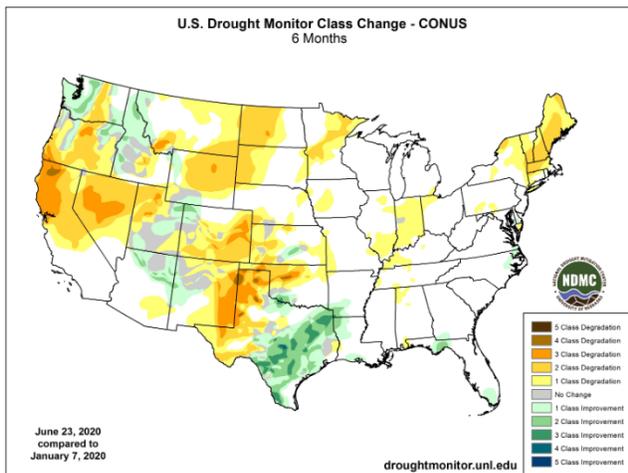
1 Week



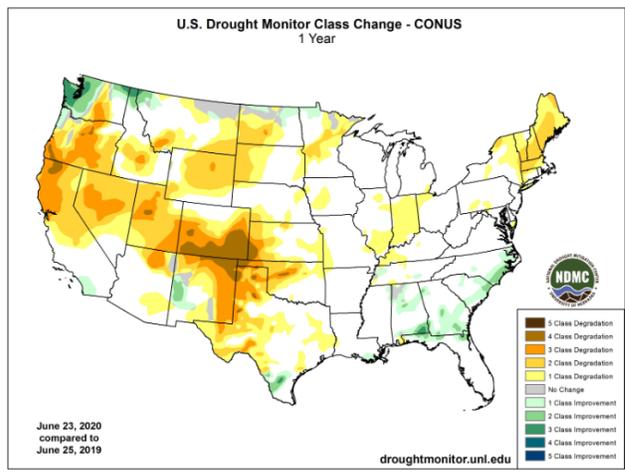
1 Month



6 Months



1 Year



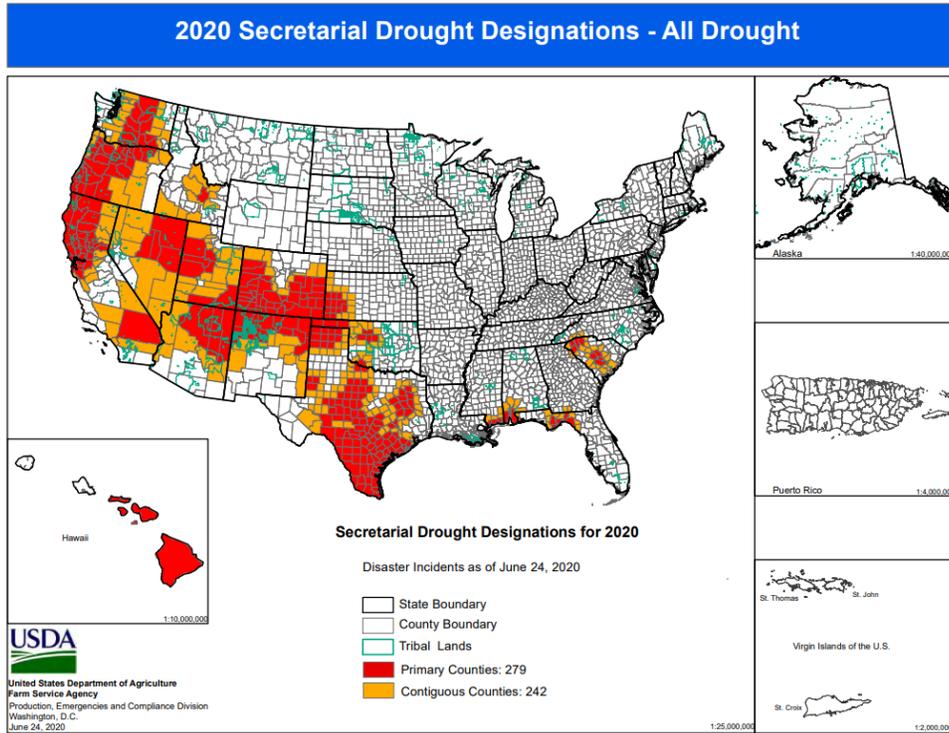
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

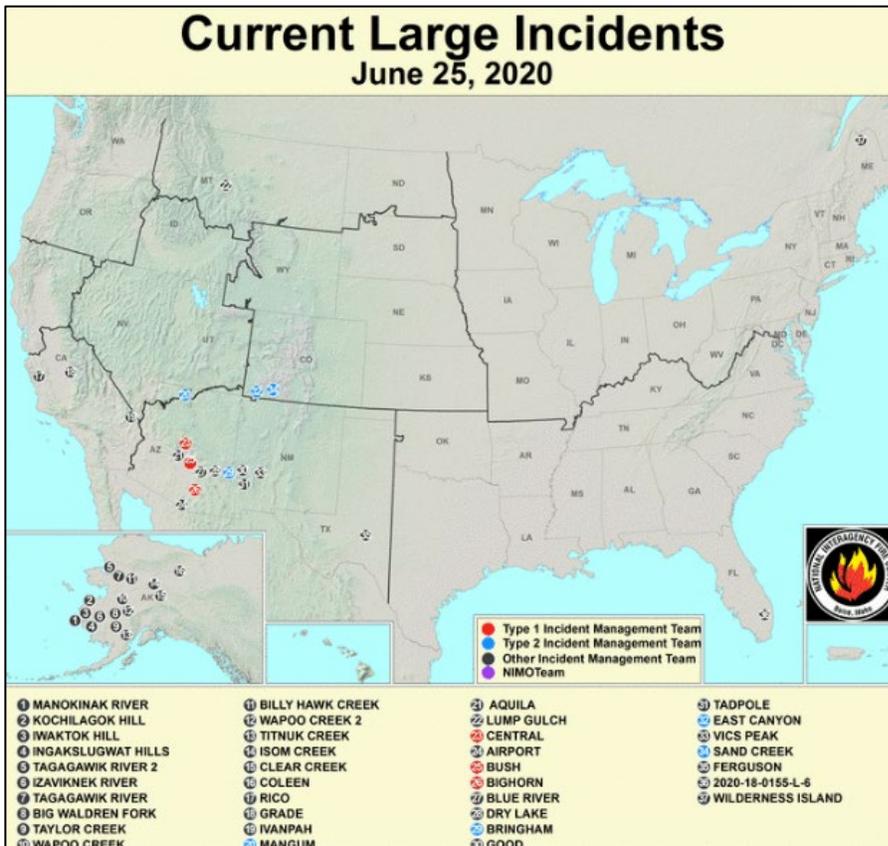
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



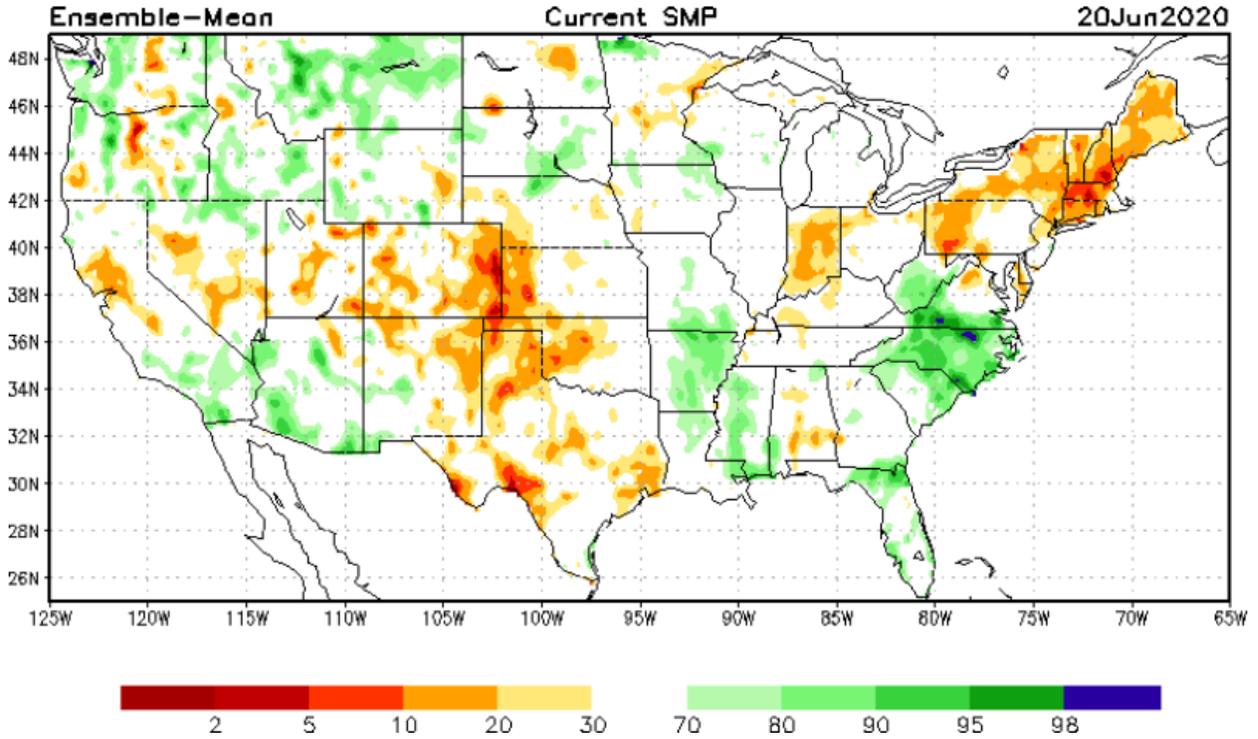
**Highlighted
Wildfire
Resources**

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

Other Climatic and Water Supply Indicators

Soil Moisture

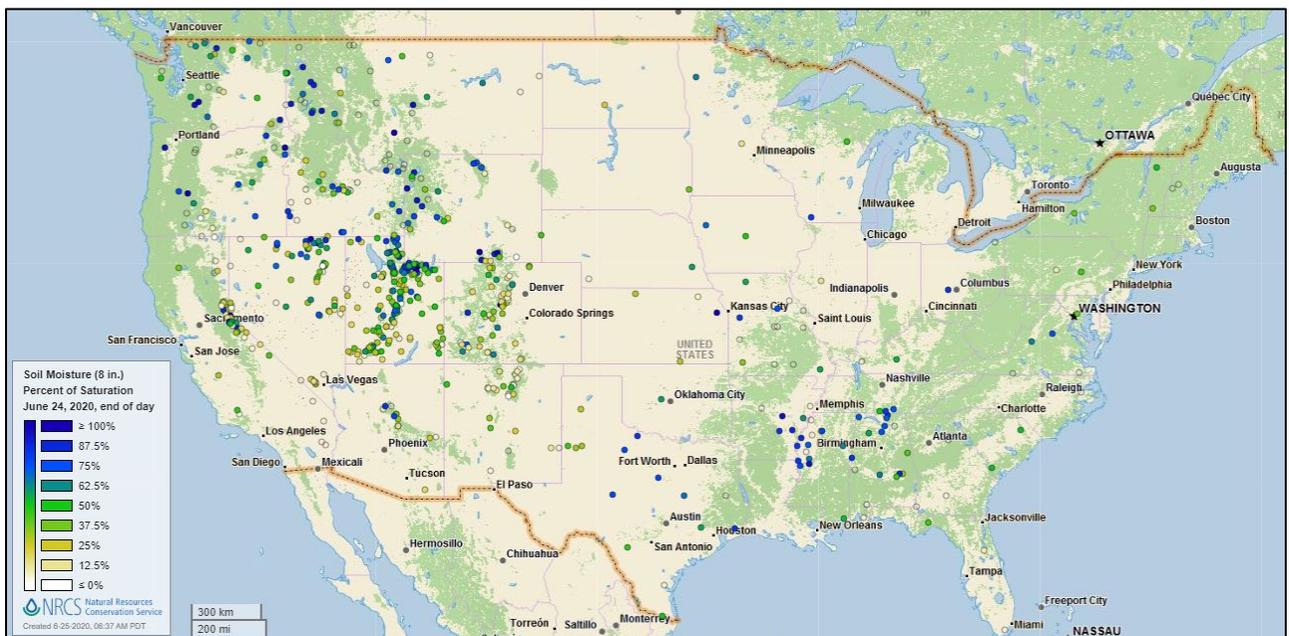
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of June 20, 2020

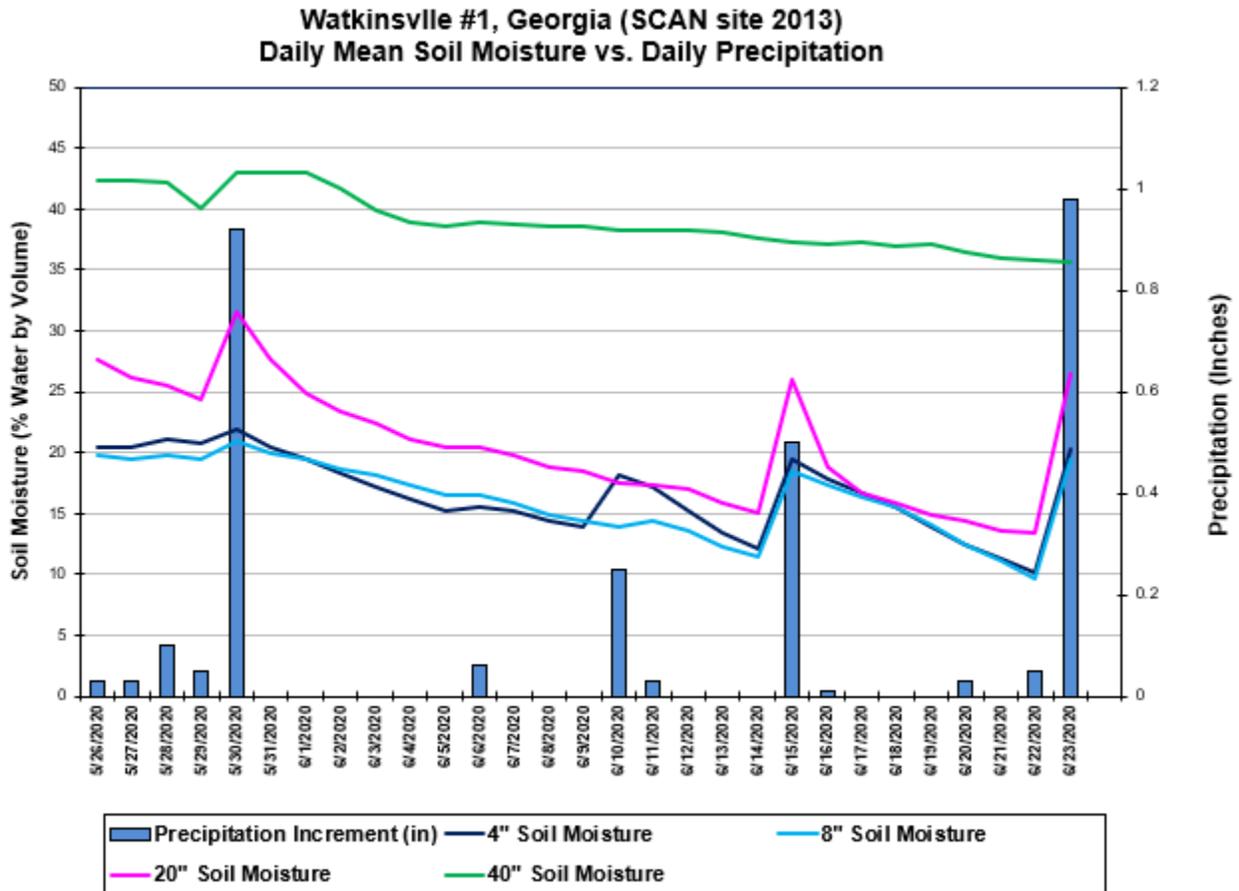
Soil Moisture Percent of Saturation

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



Soil Moisture Data

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



This chart shows the soil moisture and precipitation for the last 30 days at the [Watkinsville #1](#) SCAN site in Georgia. Precipitation on May 30 resulted in increased soil moisture at all sensor depths. Other precipitation throughout the month increased soil moisture at the -4", -8", and -20" sensors.

Soil Moisture Data Portals

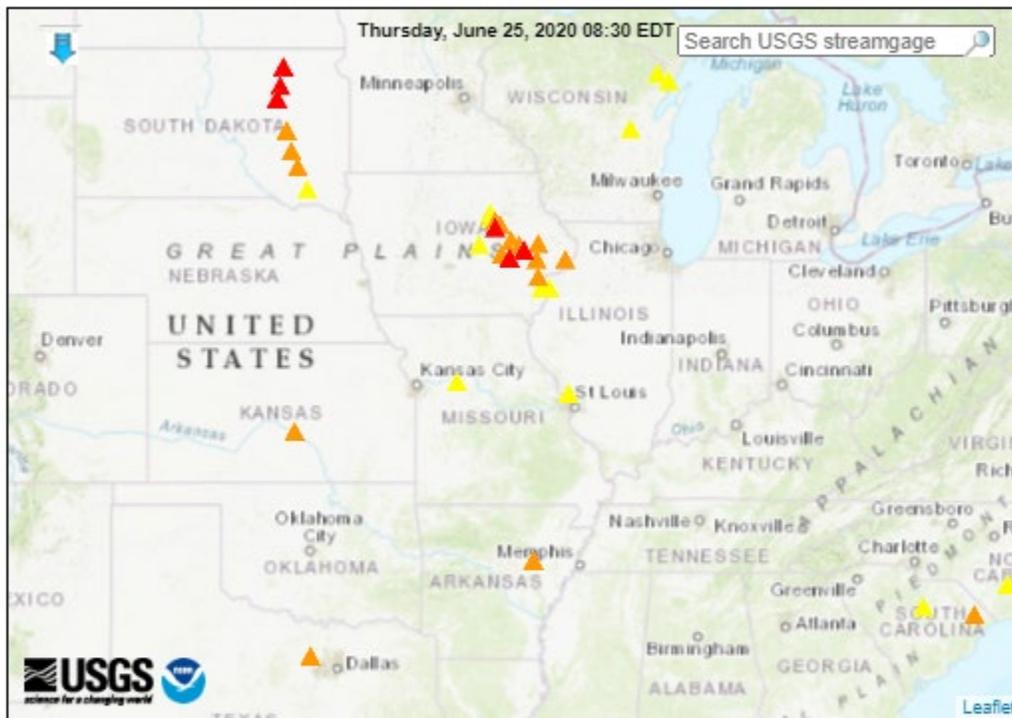
- [CRN Soil Moisture](#)
- [Texas A&M University North American Soil Moisture Database](#)
- [University of Washington Experimental Modeled Soil Moisture](#)

Streamflow, Drought, Flood, and Runoff

Source: U.S. Geological Survey

Map of flood and high flow conditions

(33 in floods [moderate: 8, minor: 25], 20 in near-flood)



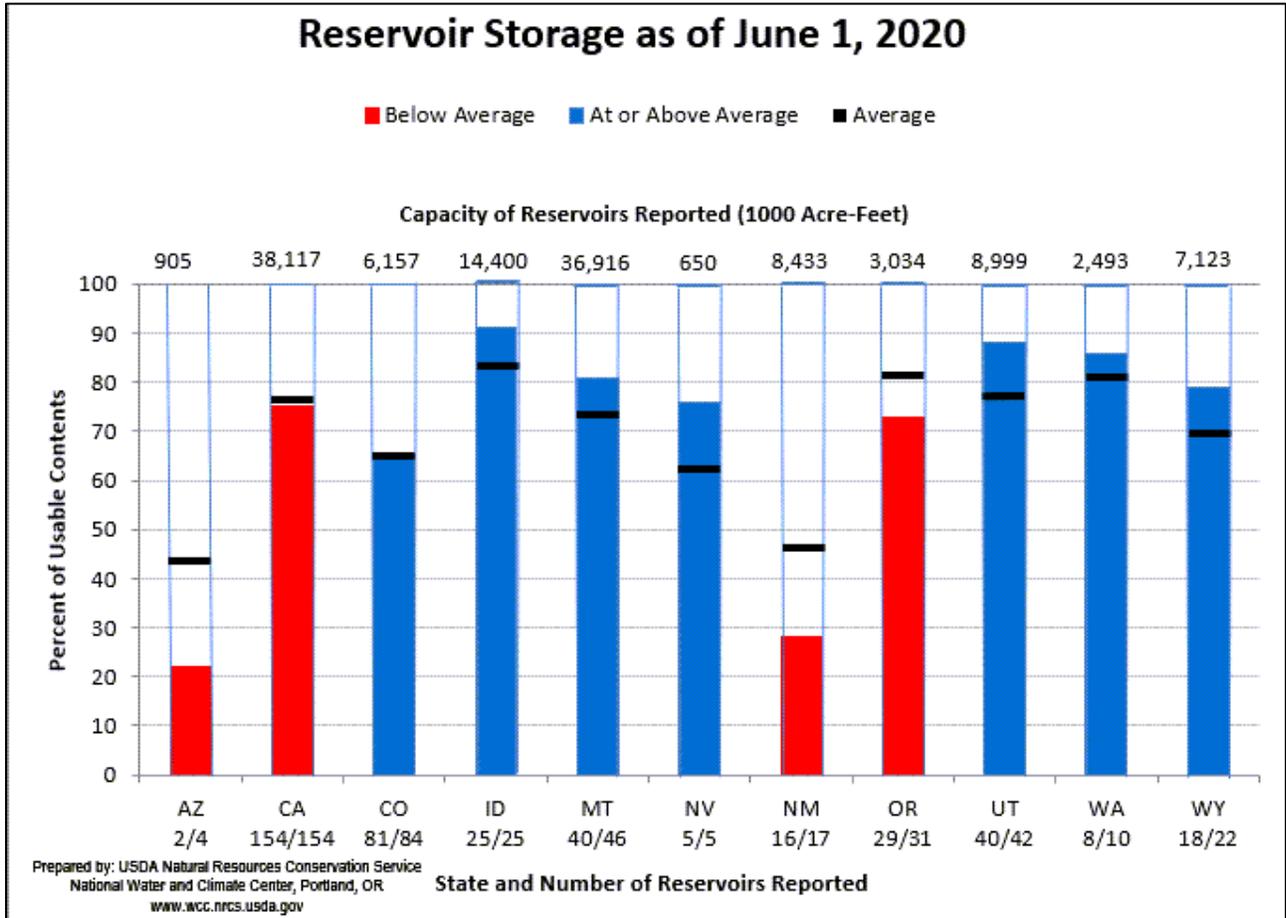
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			△ Streamgage with flood stage	○ Streamgage without flood stage		

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



June 1, 2020 Reservoir Storage: [Chart](#) | [Dataset](#)

Hydromet Teacup Reservoir Depictions

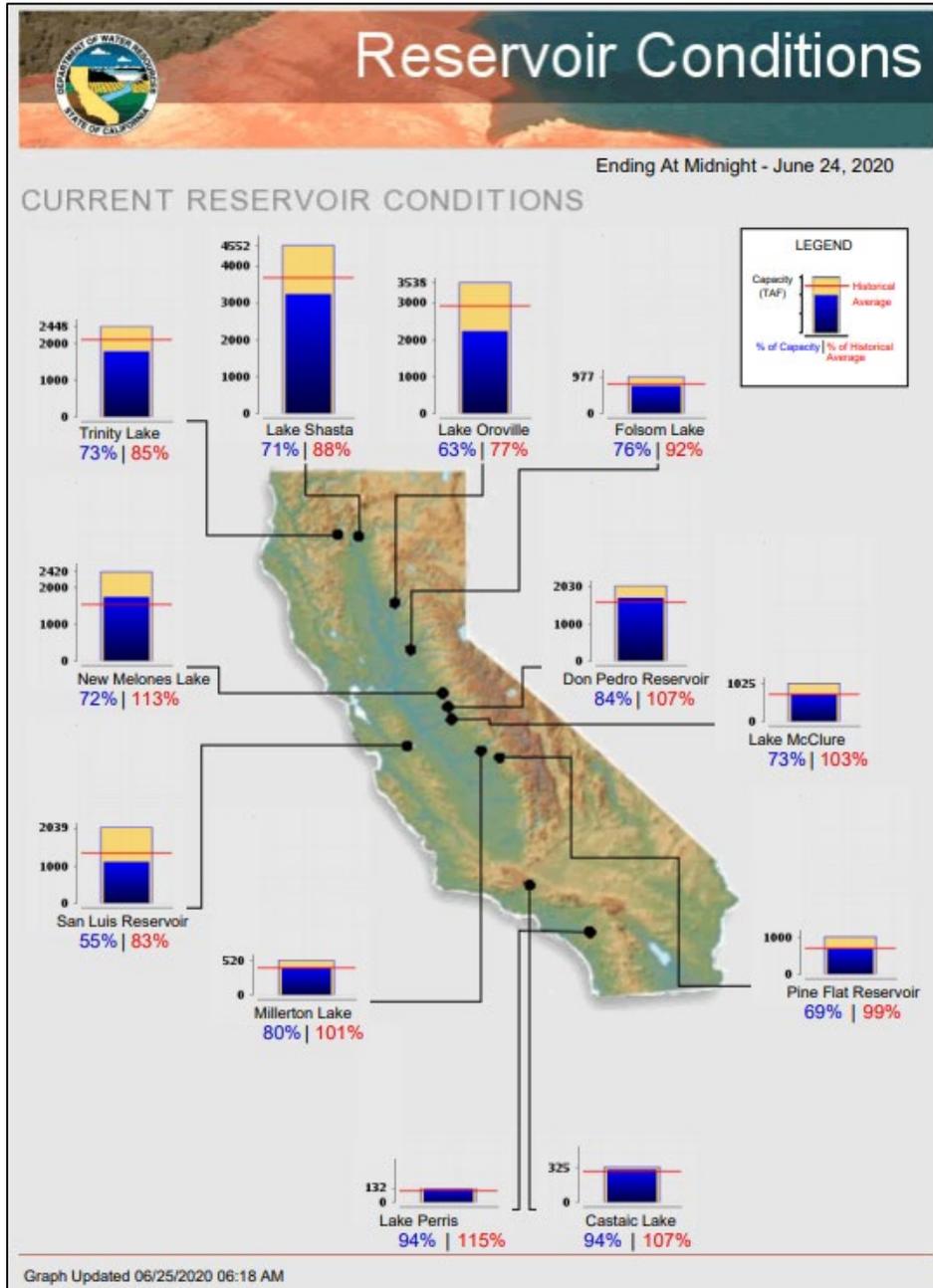
Source: U.S. Bureau of Reclamation

- [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](#)

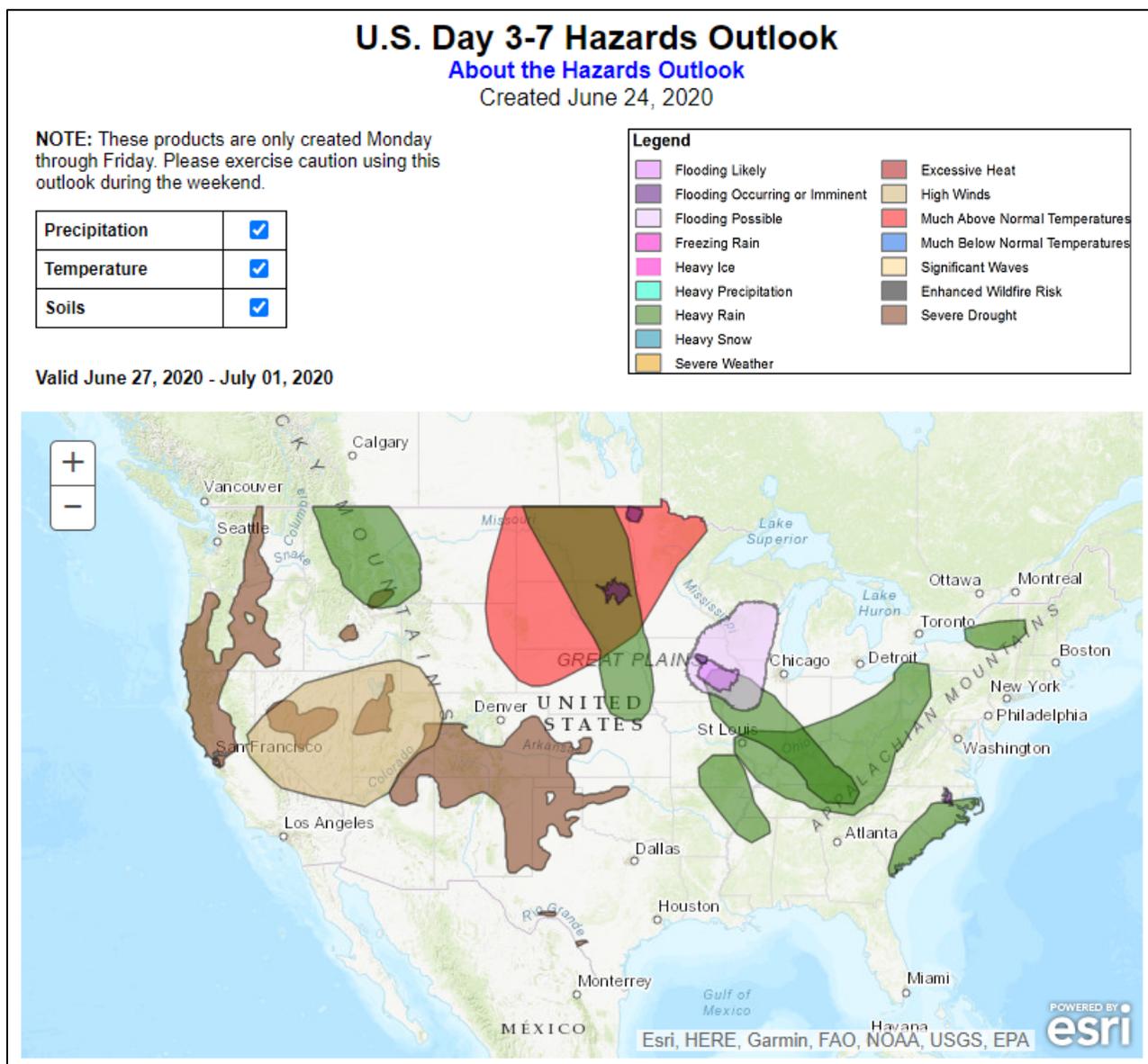
Agricultural Weather Highlights

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

National Outlook, Thursday, June 25, 2020: “Hot weather will linger for a few more days across the West, followed by a late-weekend transition to markedly cooler conditions. Meanwhile, most of the central and eastern U.S. will experience a gradual transition to near- or above normal temperatures. Rain will subside across the South, while late-week showers and thunderstorms will become more numerous in the North. Five-day rainfall could total 1 to 3 inches in northern sections of the Rockies and High Plains, and 1 to 2 inches in parts of the Midwest. In contrast, little or no rain will fall into early next week from California to the southern Plains. The NWS 6- to 10-day outlook for June 30 – July 4 calls for the likelihood of near- or above-normal temperatures from the Plains to the East Coast, while cooler-than-normal conditions will prevail in the West. Meanwhile, near- or above-normal rainfall across most of the country should contrast with drier-than-normal weather in a few areas, including southern Texas, parts of the Southwest, and an area stretching from the Great Lakes into New England.”

Weather Hazards Outlook: [June 27 – July 1, 2020](#)

Source: NOAA Weather Prediction Center

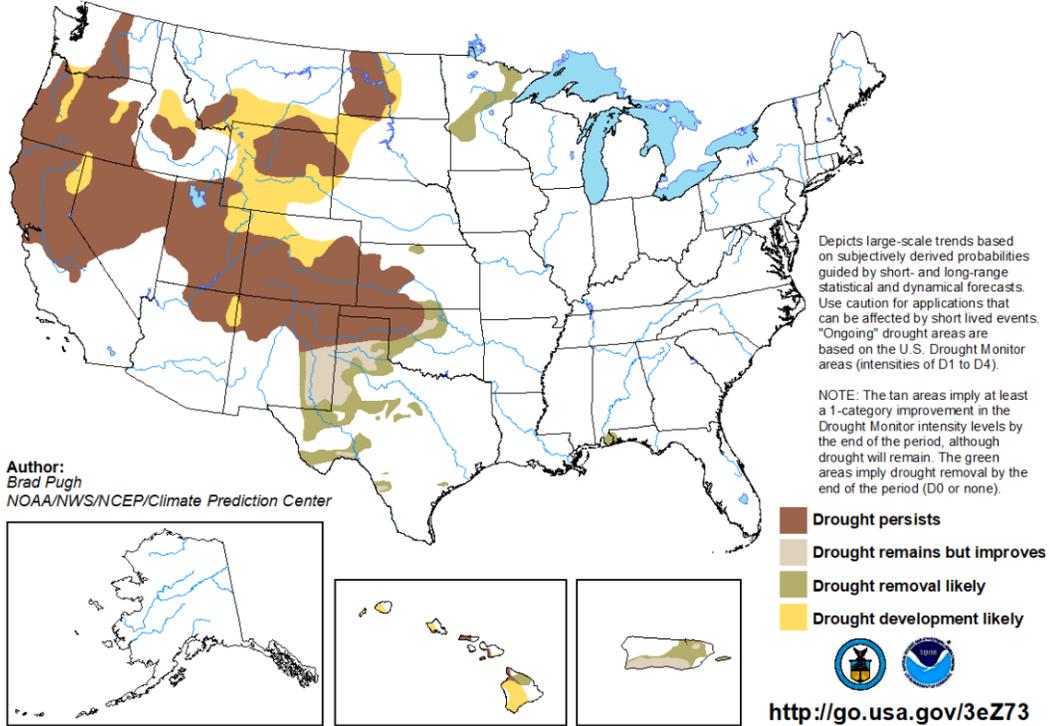


Seasonal Drought Outlook: [June 18 – September 30, 2020](#)

Source: National Weather Service

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

Valid for June 18 - September 30, 2020
Released June 18

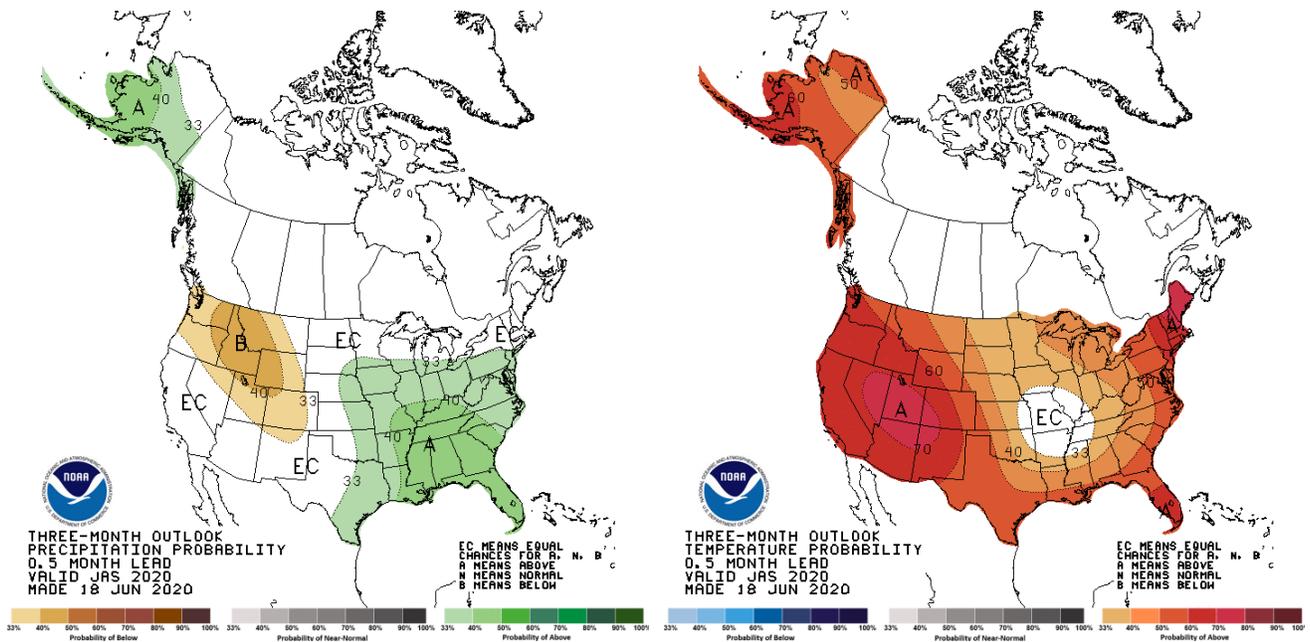


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[July-August=September \(JAS\) 2020 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](#).