

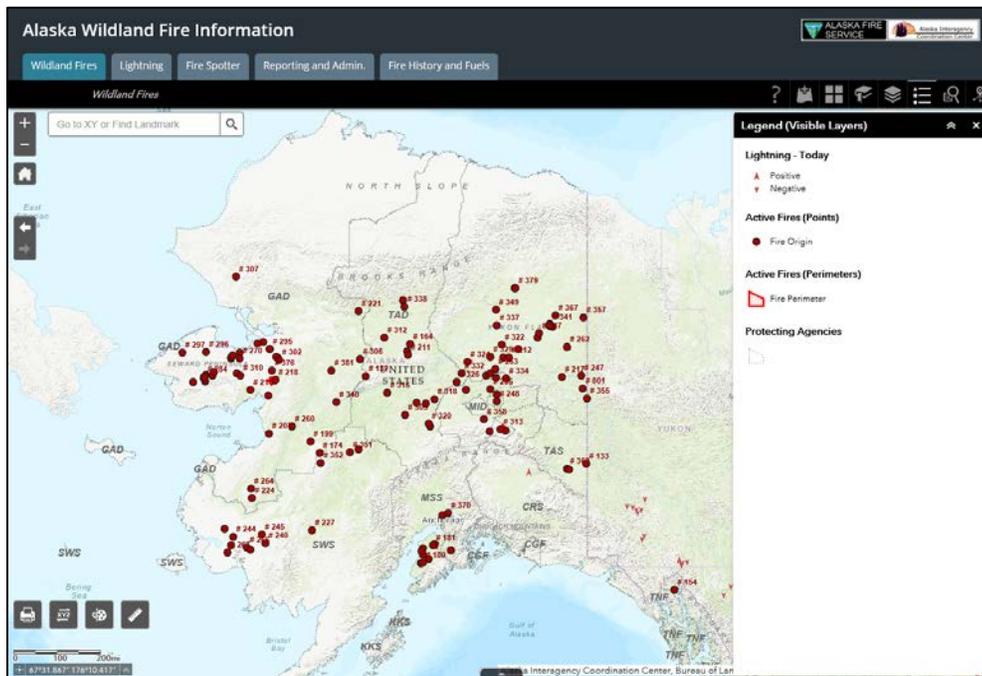
Water and Climate Update

June 27, 2019

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.

Snow	2	Other Climatic and Water Supply Indicators	13
Precipitation	4	Short- and Long-Range Outlooks.....	18
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Drought	10		

Ongoing warm, dry weather fuels Alaska wildfires



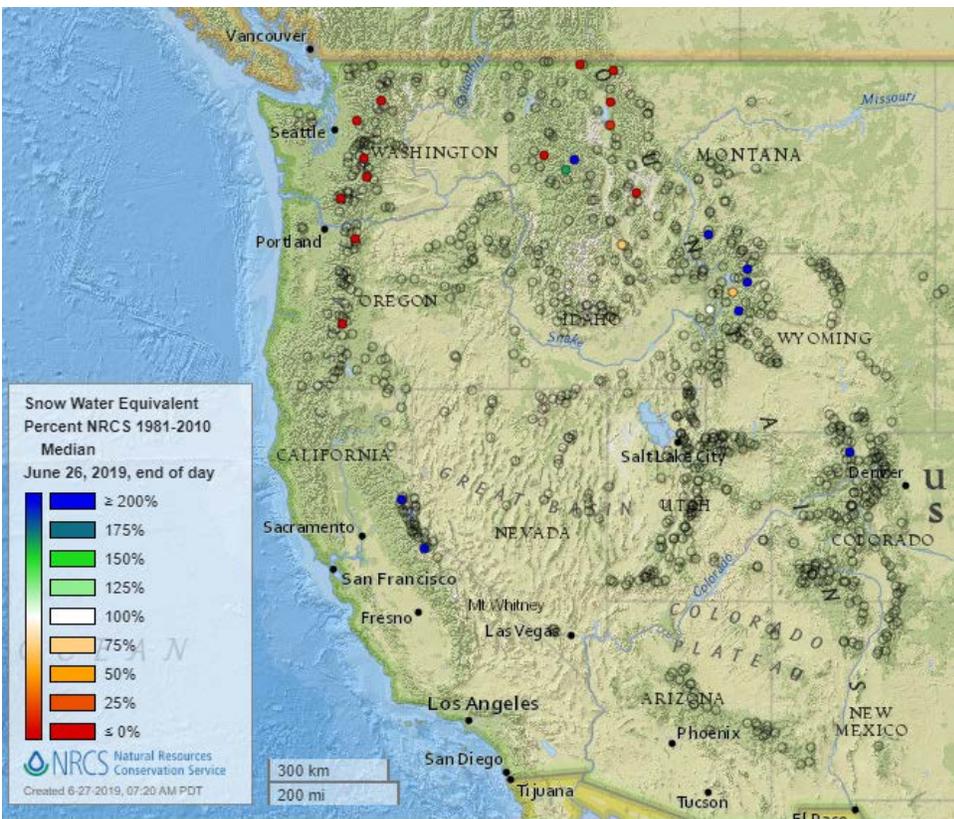
There are currently 19 active large wildfires burning in Alaska, with significant warming and drying forecast for the inland areas of the state. Utqiagvik, Alaska, on the North Slope recorded 73°F on June 20, an all-time record high for June and 30° above normal. Higher than normal temperatures combined with dry conditions have increased the spread of wildfires across the state. One of the largest fires, [Swan Lake](#), is burning approximately 43,000 acres northeast of Sterling, Alaska.

Related:

- [Multiple fires burning in Alaska interior due to hot weather and lightning](#) – KTUU.com (AK)
- [Interior Alaska wildfires grow as temperatures warm](#) – Fairbanks Daily News-Miner
- [Lower 48 crews head to Alaska as multiple wildfires spread](#) – Fairbanks Daily News-Miner
- [Wildfire danger high from Anchorage to Fairbanks, and Alaska firefighting resources are stretched thin](#) – Alaska Dispatch News
- [Utqiagvik, Alaska, America's Northernmost Town, Smashes June Record High](#) – The Weather Channel
- [Firefighters protect powerline near Kenai Peninsula wildfire](#) – The Washington Times
- [With far-north temperatures rising, Alaska tundra fires proliferate](#) – Thomson Reuters Foundation
- [Smoke from the Swan Lake Fire forces closure on the Sterling Highway](#) – KTUU.com (AK)

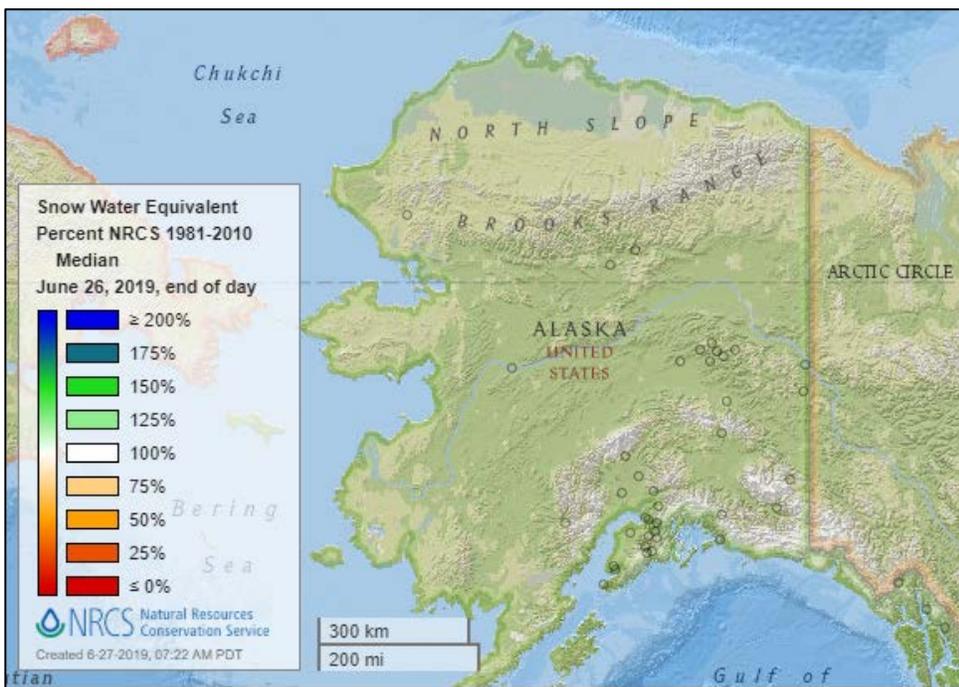
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



[Snow water equivalent percent of median map](#)

See also:
[Snow water equivalent values \(inches\) map](#)

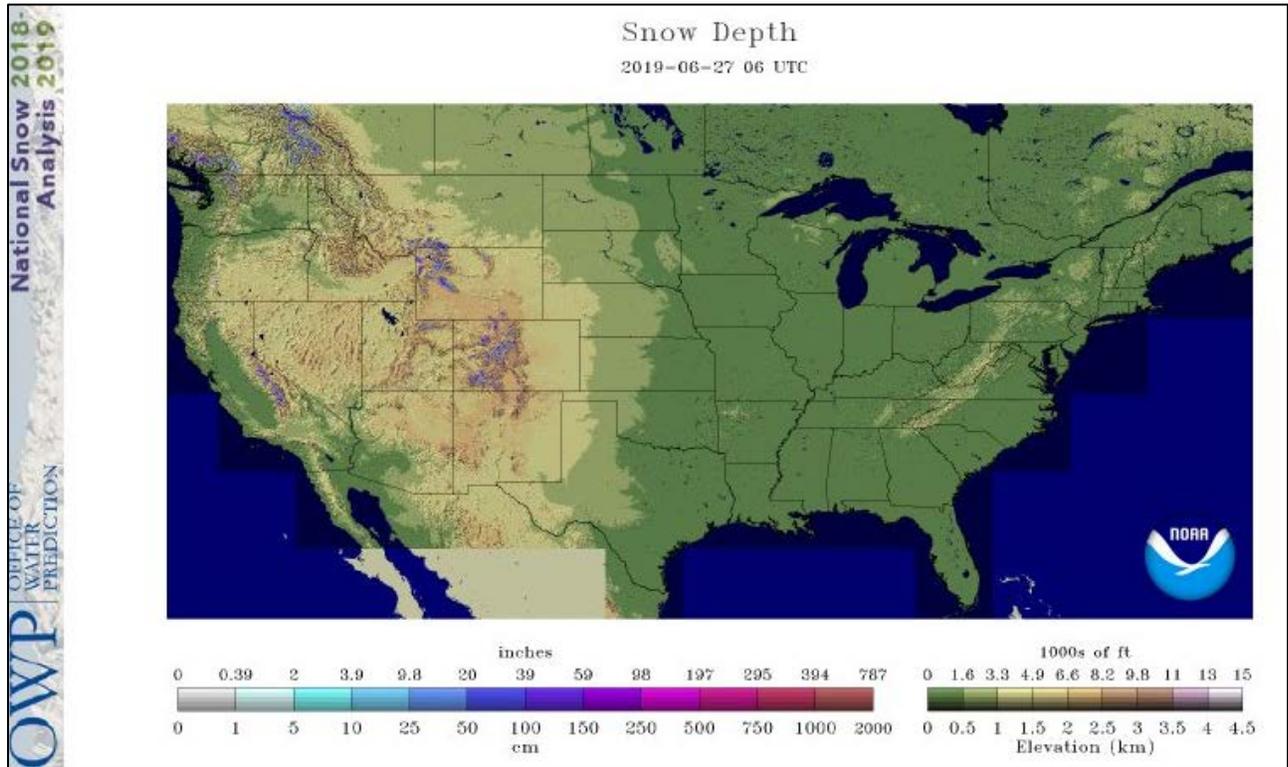


[Alaska snow water equivalent percent of median map](#)

See also:
[Alaska snow water equivalent values \(inches\) map](#)

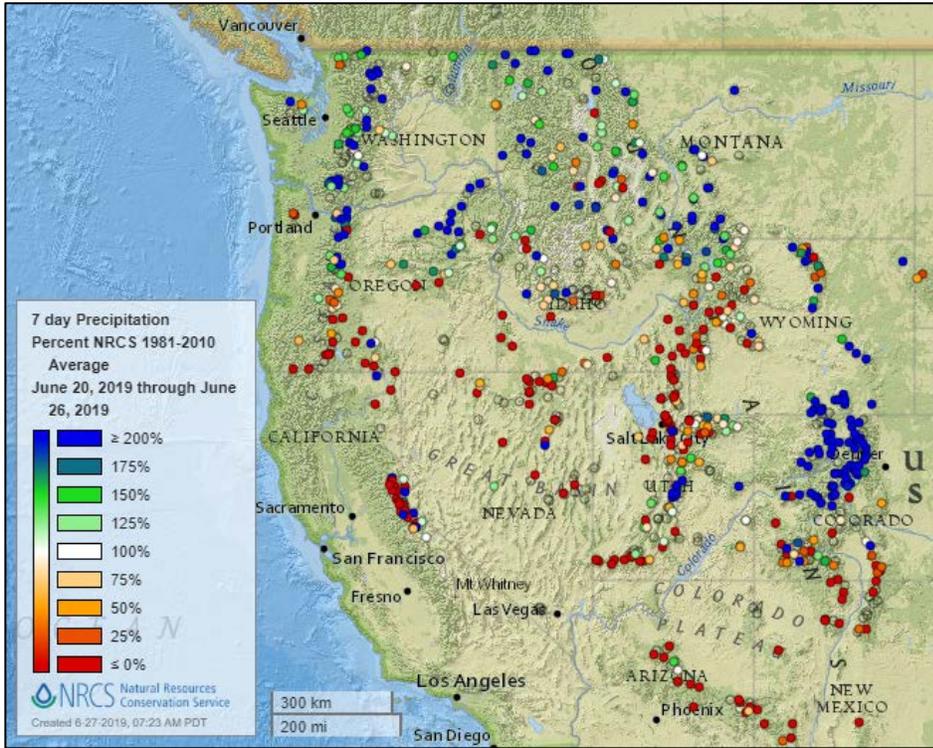
Current Snow Depth

Source: National Weather Service Snow Analysis



Precipitation

Last 7 Days, NRCS SNOTEL Network

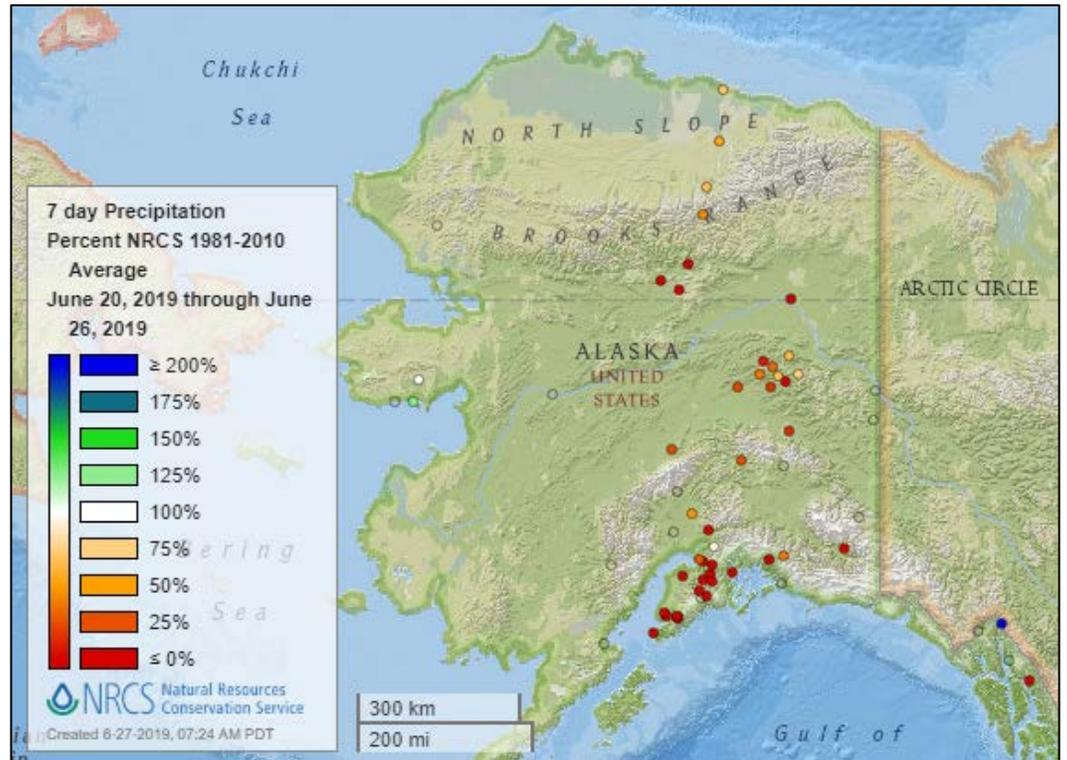


[7-day precipitation percent of average map](#)

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](#)



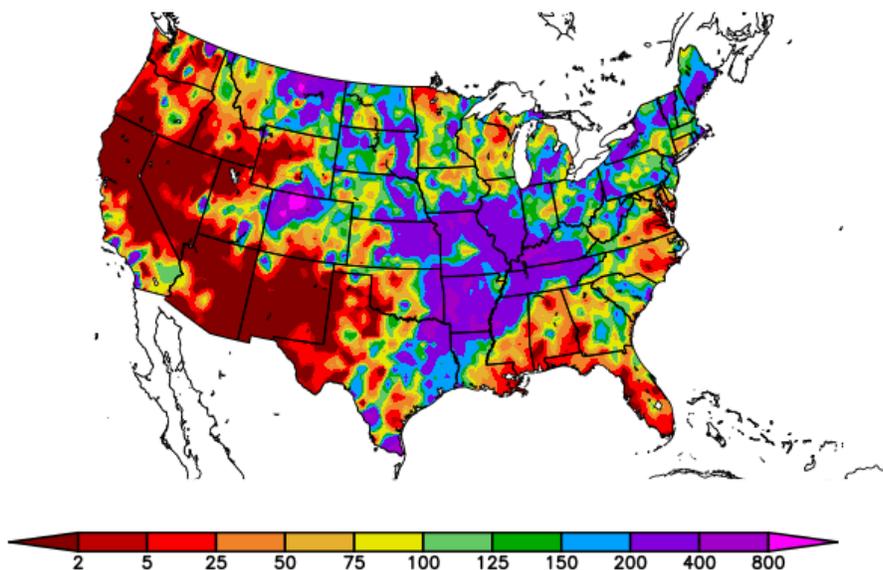
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
6/20/2019 – 6/26/2019



Generated 6/27/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

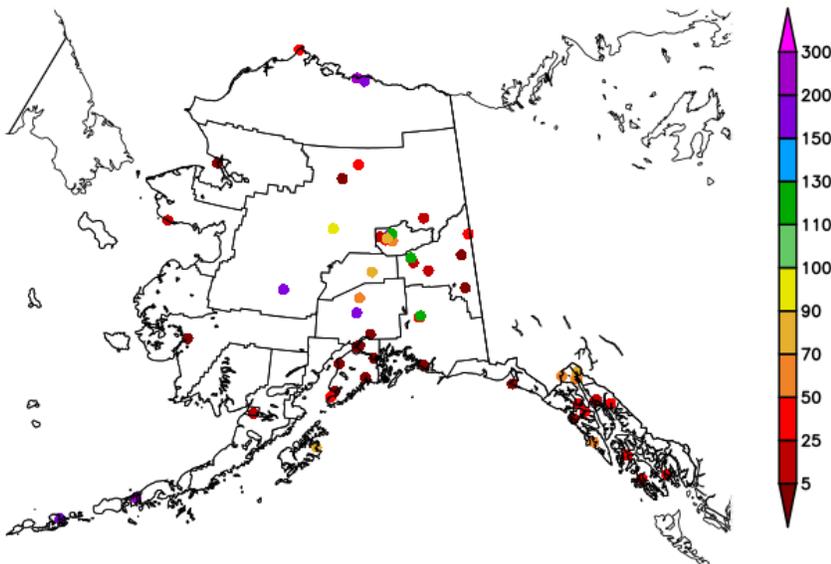
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
6/20/2019 – 6/26/2019

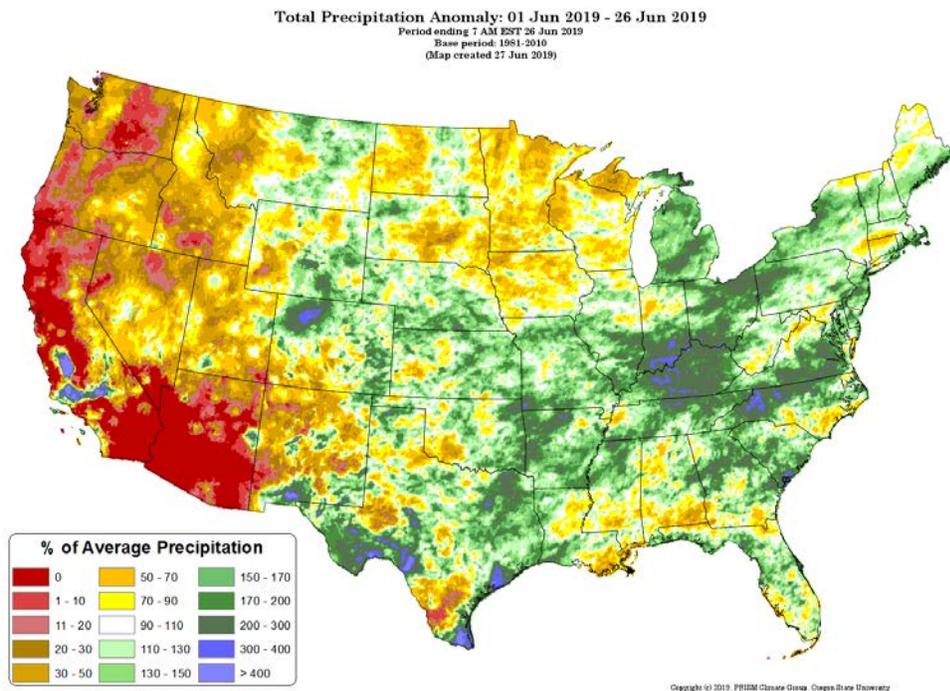


Generated 6/27/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

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

Source: PRISM

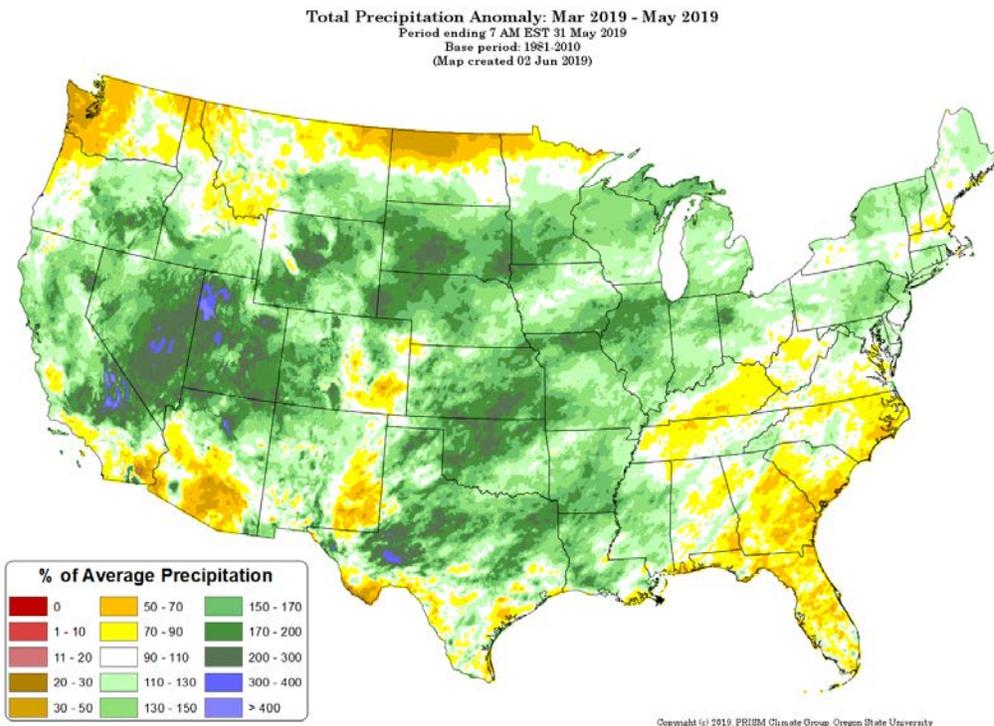


[Month-to-date national total precipitation percent of average map](#)

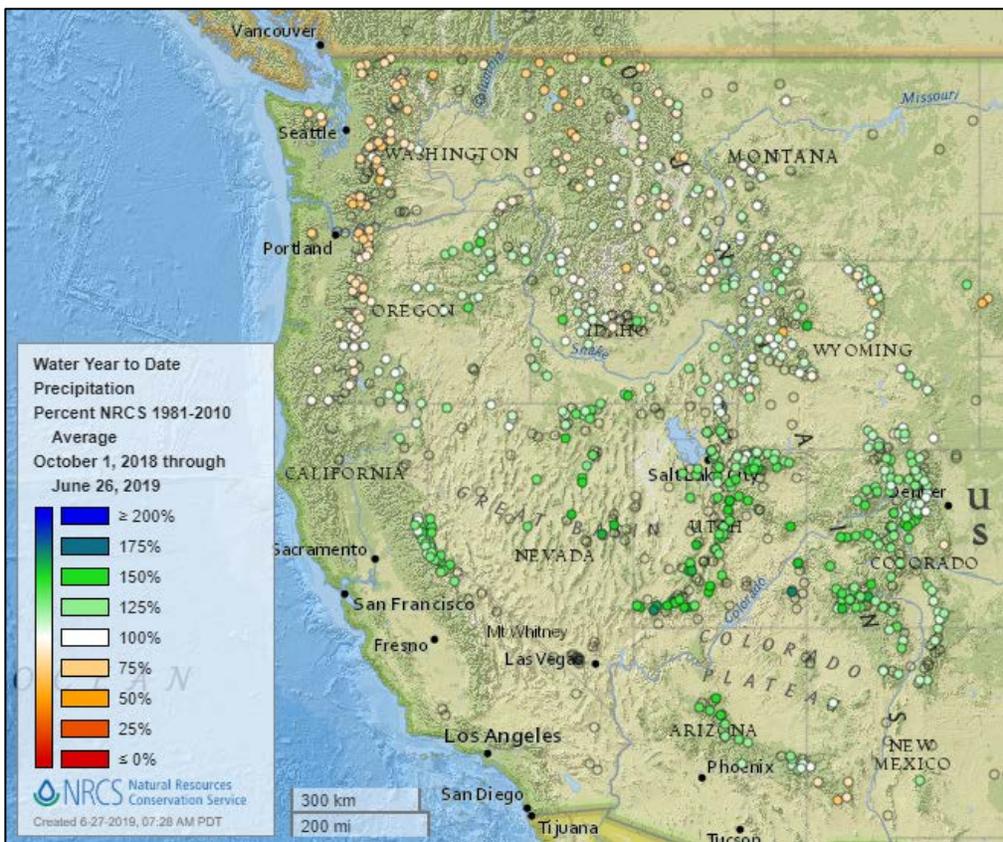
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[March through May 2019 total precipitation percent of average map](#)

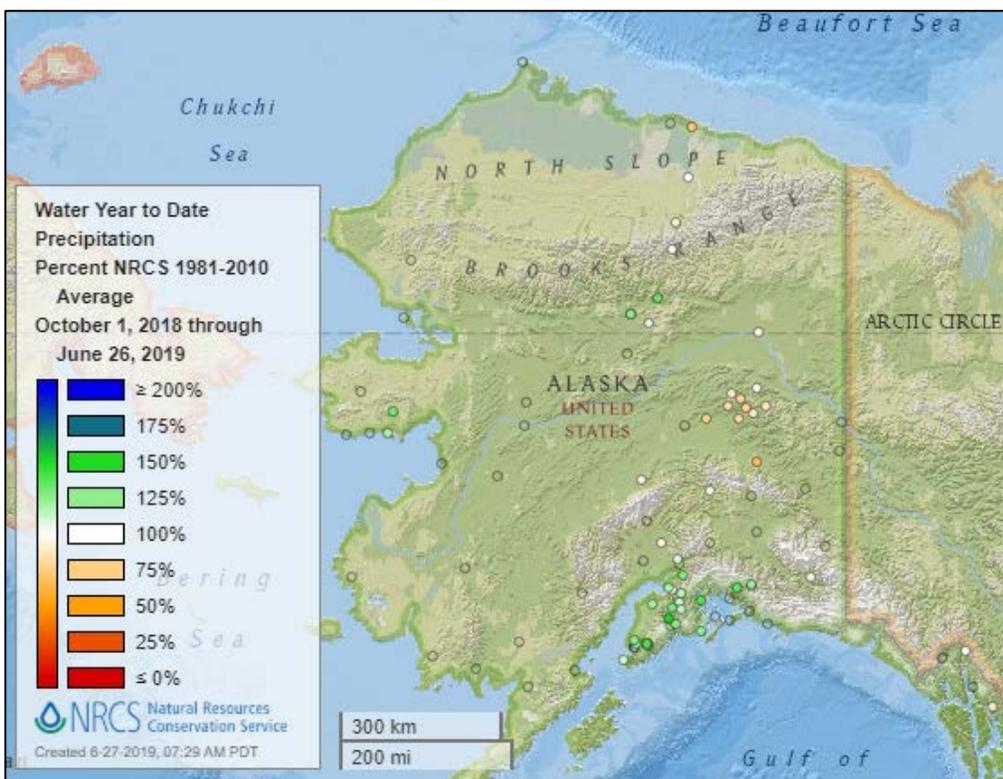


Water Year-to-Date, NRCS SNOTEL Network



[2019 water year-to-date precipitation percent of average map](#)

See also:
[2019 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2019 water year-to-date precipitation percent of average map](#)

See also:
[Alaska 2019 water year-to-date precipitation values \(inches\) map](#)

Temperature

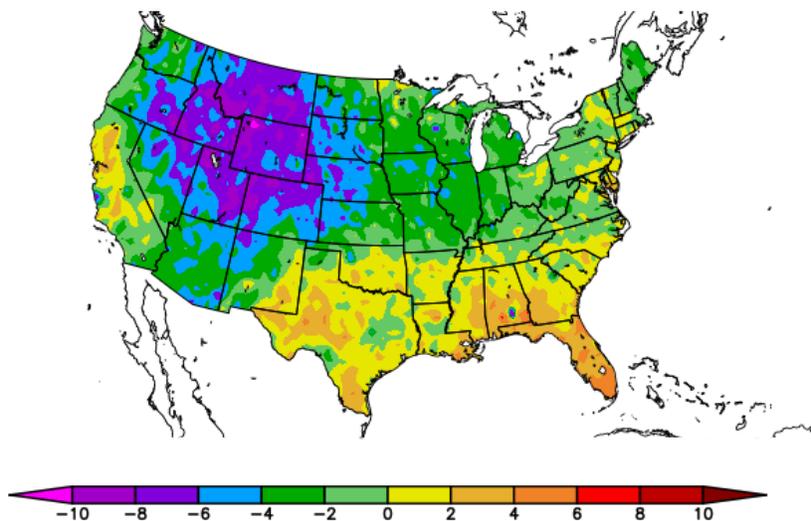
Last 7 Days, National Weather Service (NWS) Networks

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)
6/20/2019 – 6/26/2019



Generated 6/27/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

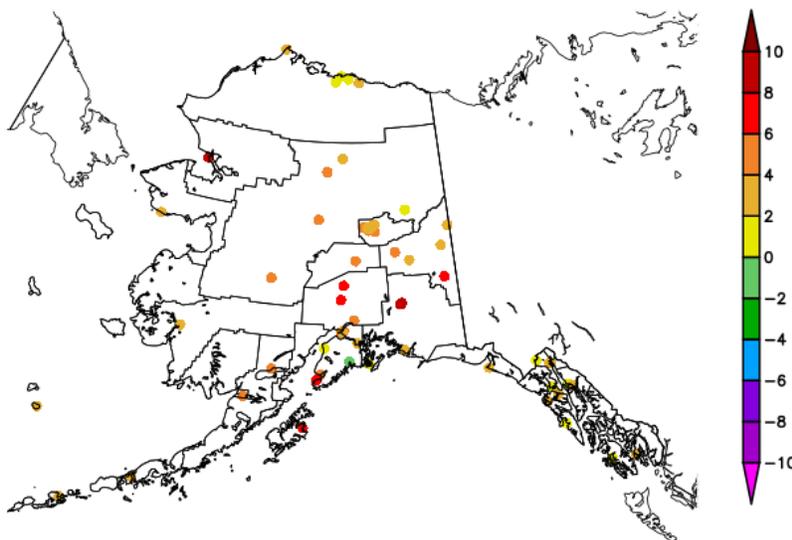
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
6/20/2019 – 6/26/2019



Generated 6/27/2019 at HPRCC using provisional data.

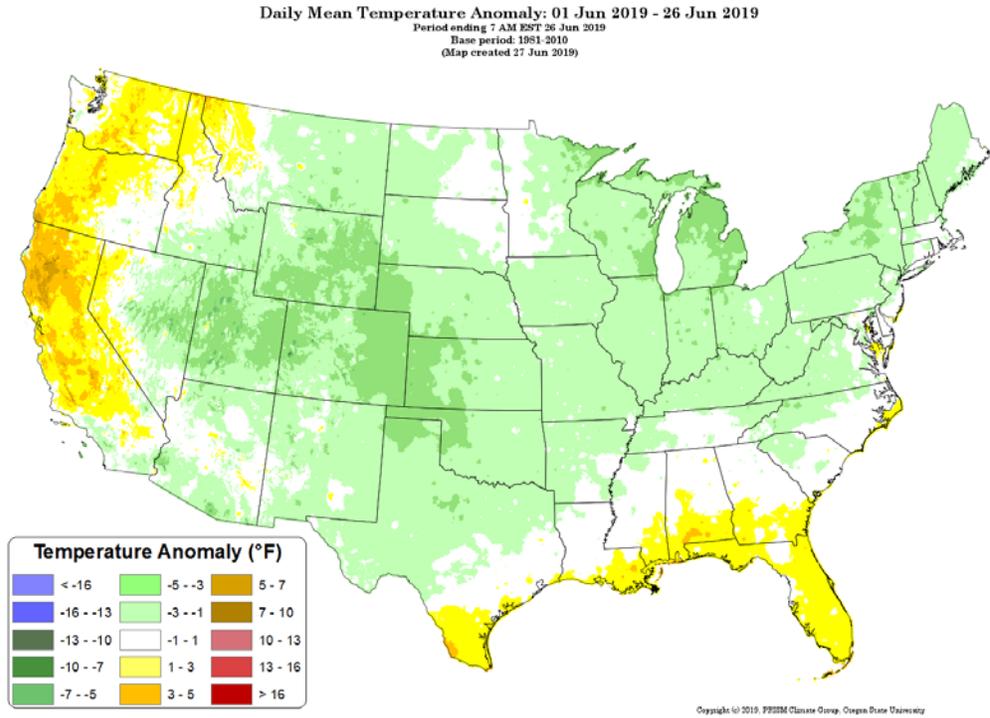
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

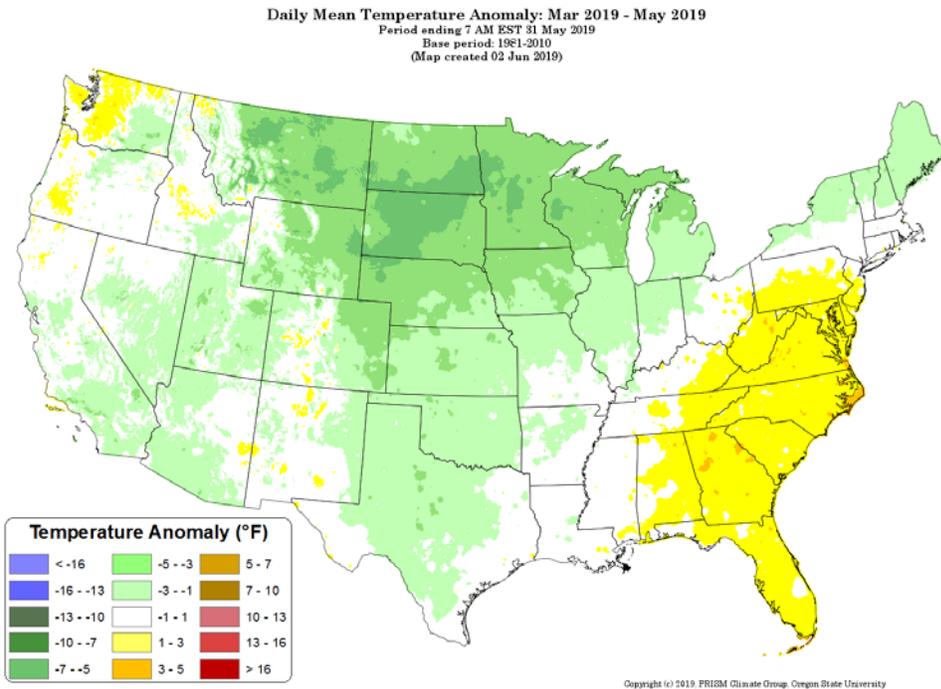
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[March through May 2019 daily mean temperature anomaly map](#)



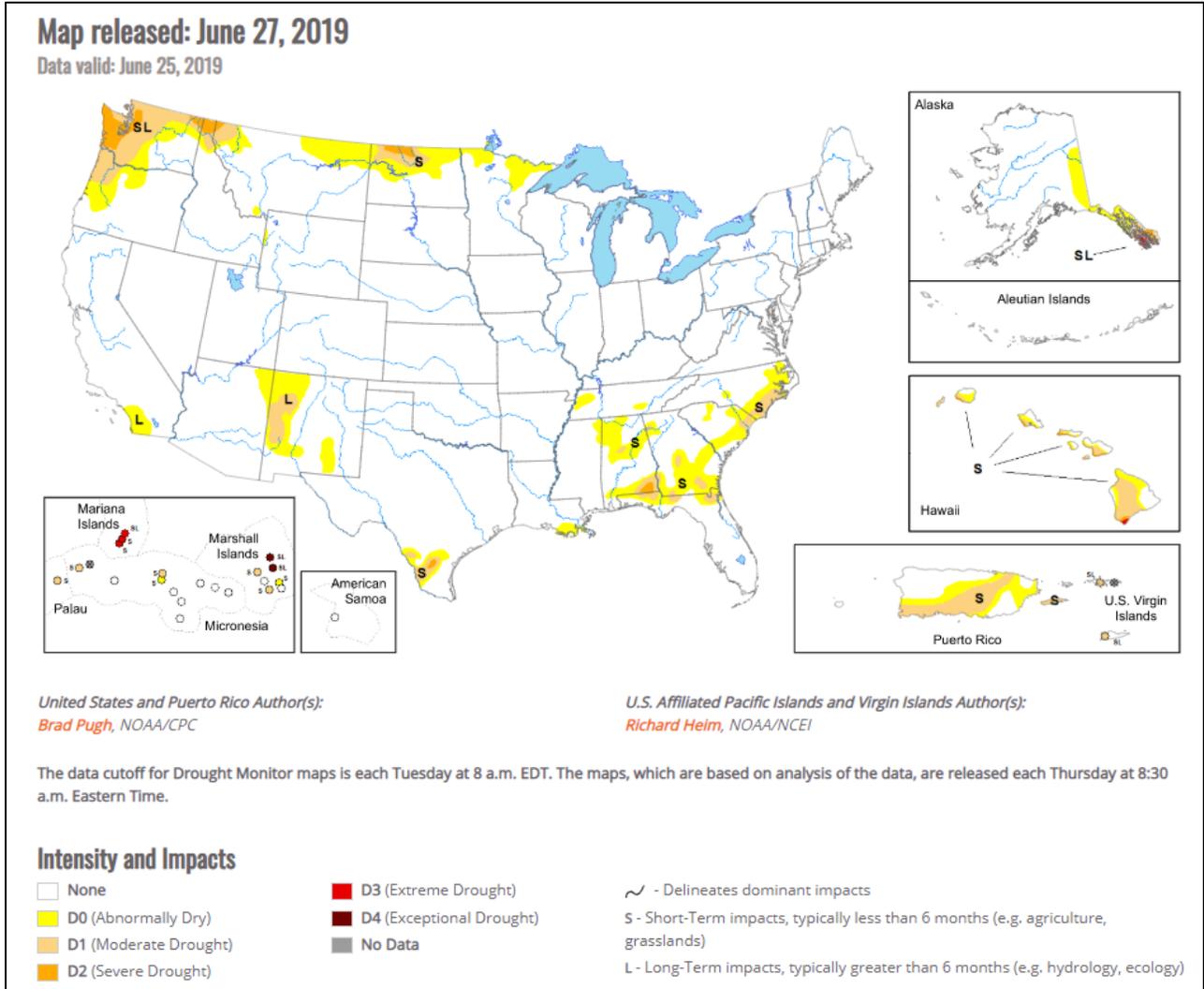
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), June 27, 2019

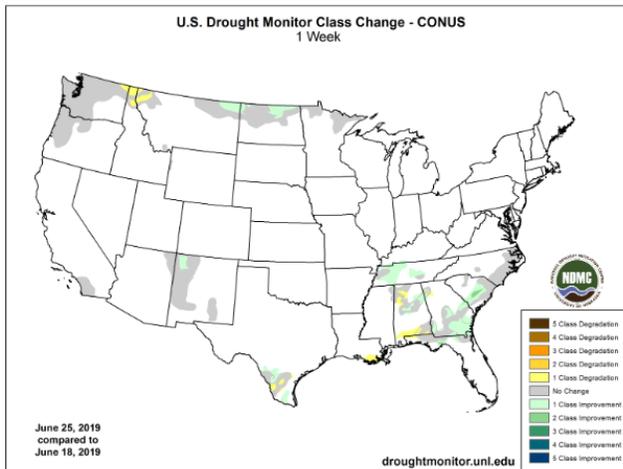
Source: National Drought Mitigation Center

“Multiple cold fronts progressed across the central and eastern U.S. during mid to late June with widespread showers and thundershowers from the Great Plains east to the East Coast. During the past week (June 18 to 24), heavy rainfall (2 to 6 inches) maintained excessively wet conditions across eastern portions of the Great Plains, middle Mississippi Valley, and Ohio Valley. Diurnal convection resulted in locally heavy rainfall (more than 2 inches) from the Florida Panhandle south to the central Florida Peninsula. An unseasonably strong low pressure system resulted in accumulating snow to the northern and central Rockies on the first full day of the summer. More than a foot of snow was observed at elevations above 9,000 feet in the Colorado Rockies. During mid to late June, cooler-than-normal temperatures persisted throughout the western and central Corn Belt. Above average rainfall has occurred throughout a majority of the central and eastern U.S. during the past 30 days, with below average rainfall limited to scattered areas of the Southeast, south Texas, the northern Great Plains, upper Mississippi Valley, and Pacific Northwest.”

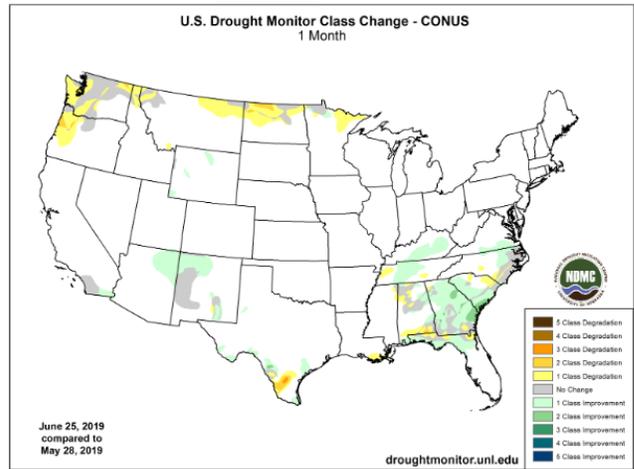
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

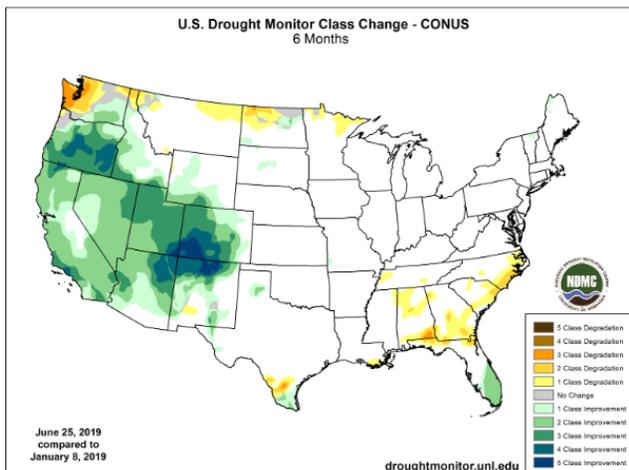
1 Week



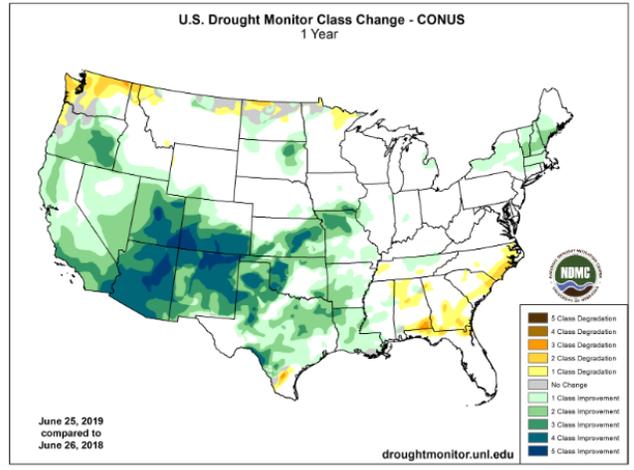
1 Month



6 Months



1 Year



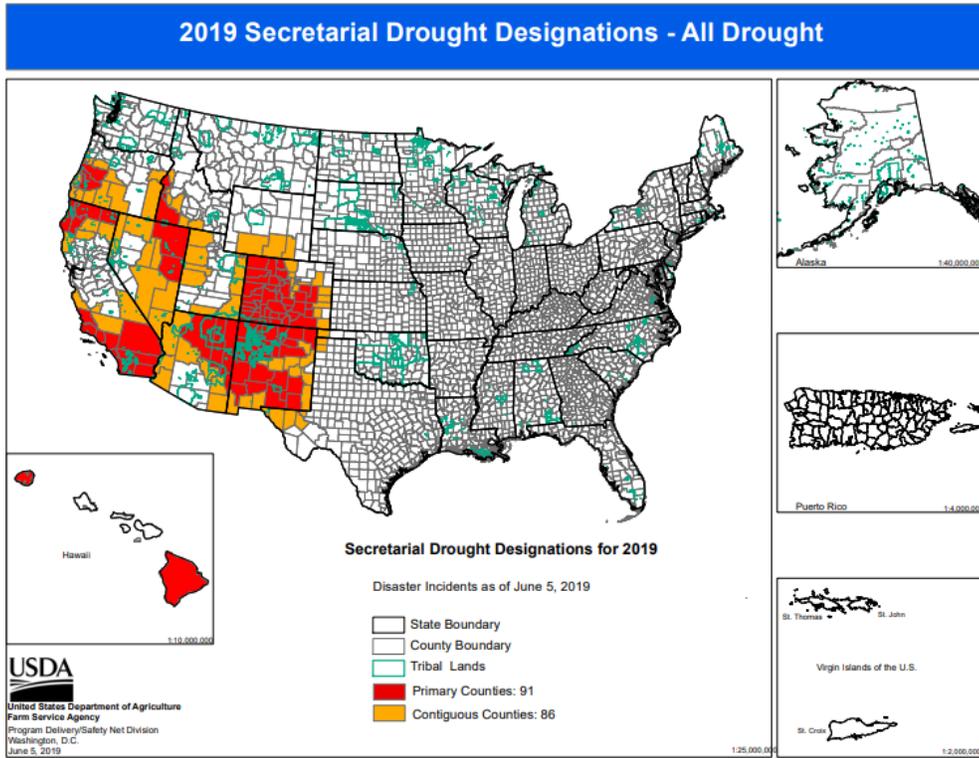
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

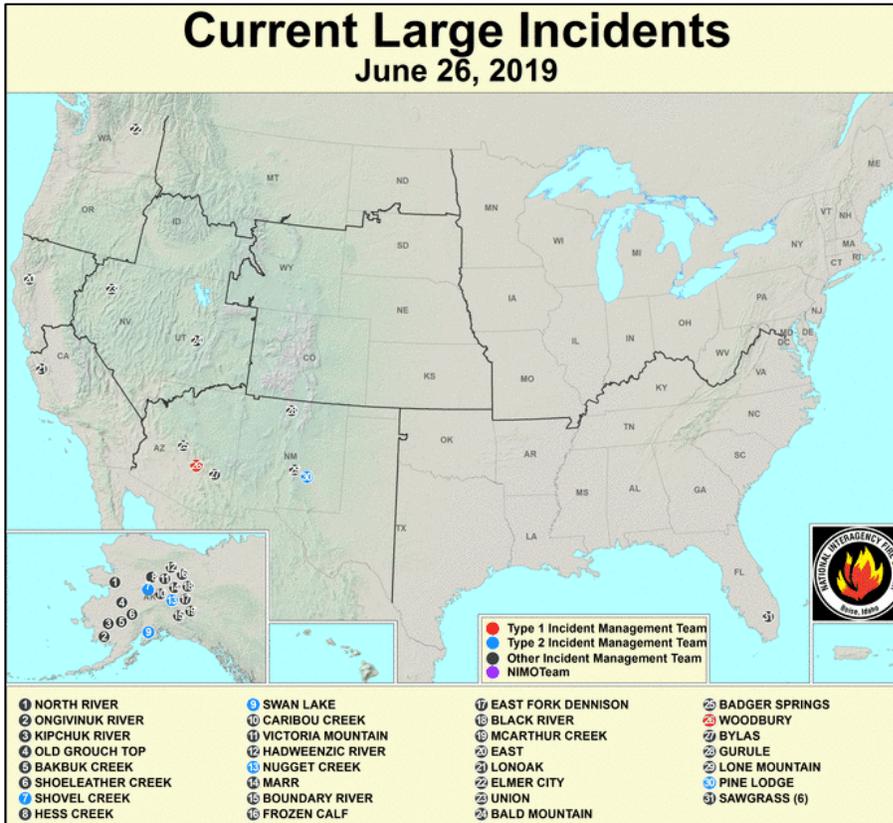
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



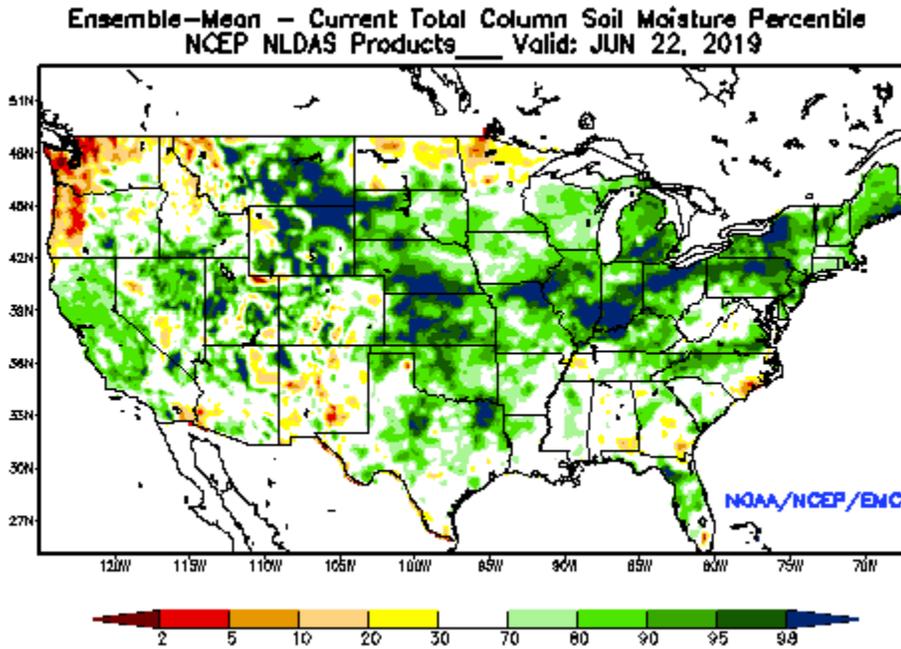
Highlighted Wildfire Resources

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

Other Climatic and Water Supply Indicators

Soil Moisture

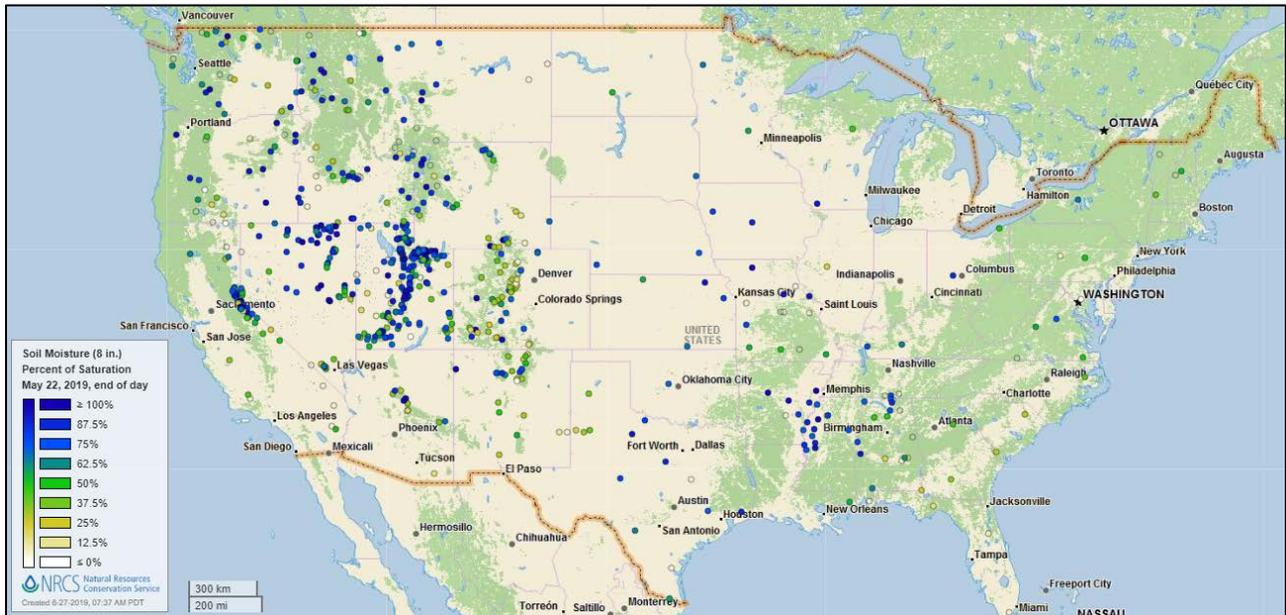
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of June 22, 2019

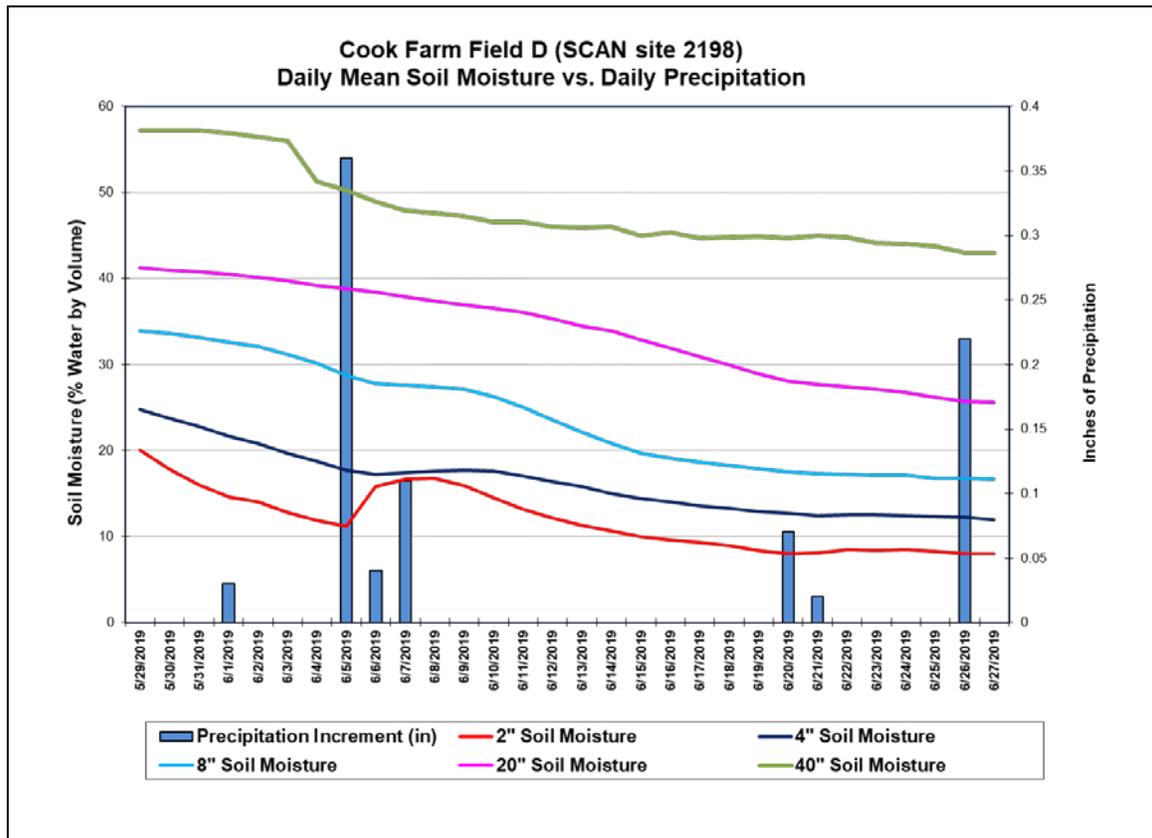
Soil Moisture Percent of Saturation

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



Soil Moisture Data

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



This graph shows the soil moisture and precipitation for the last 30 days at the [Cook Farm Field D SCAN site 2198](#) in Washington. The very light precipitation on June 6-8 provided enough moisture to have an increase at the -2” sensor and a very slight increase at the -4” sensor. Sensors at -8”, -20”, and -40” show a decrease in soil moisture during this period.

Soil Moisture Data Portals

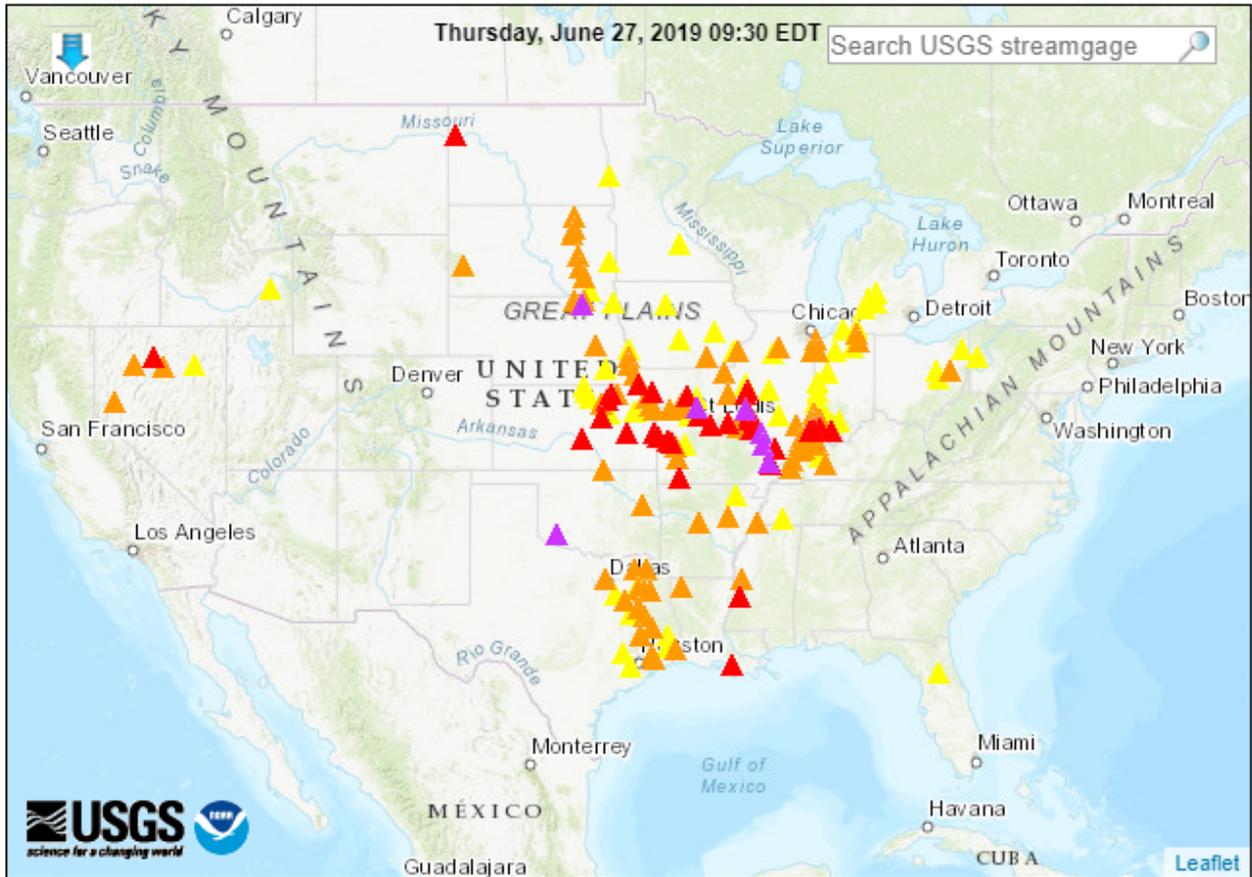
- [CRN Soil Moisture](#)
- [Texas A&M University North American Soil Moisture Database](#)
- [University of Washington Experimental Modeled Soil Moisture](#)

Streamflow, Drought, Flood, and Runoff

Source: U.S. Geological Survey

Map of flood and high flow conditions

(7 in major flood, 34 in moderate flood, 77 in minor flood, 55 in near flood)



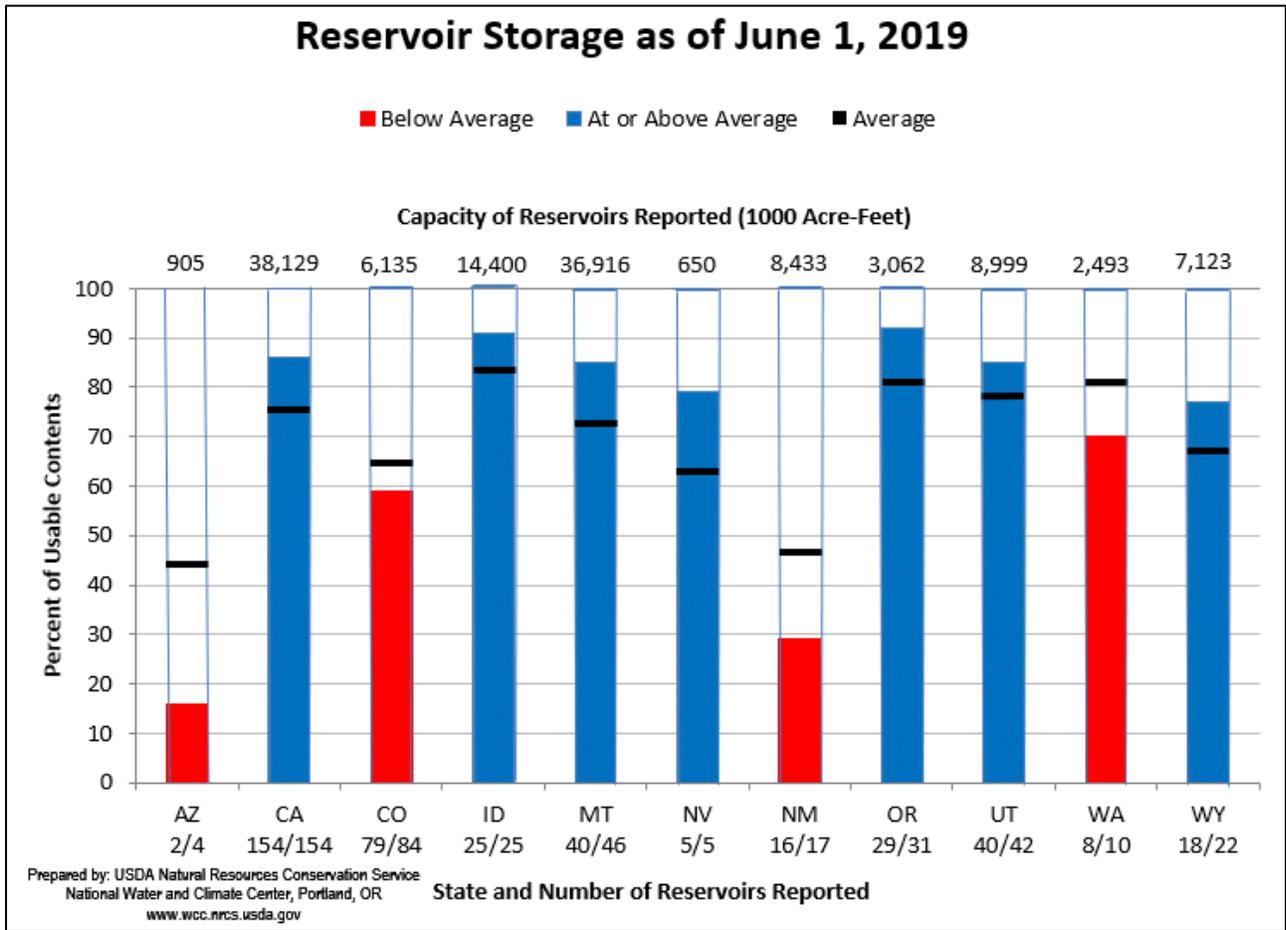
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
▲ Streamgage with flood stage			○ Streamgage without flood stage			

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



June 1, 2019 Reservoir Storage: [Chart](#) | [Dataset](#)

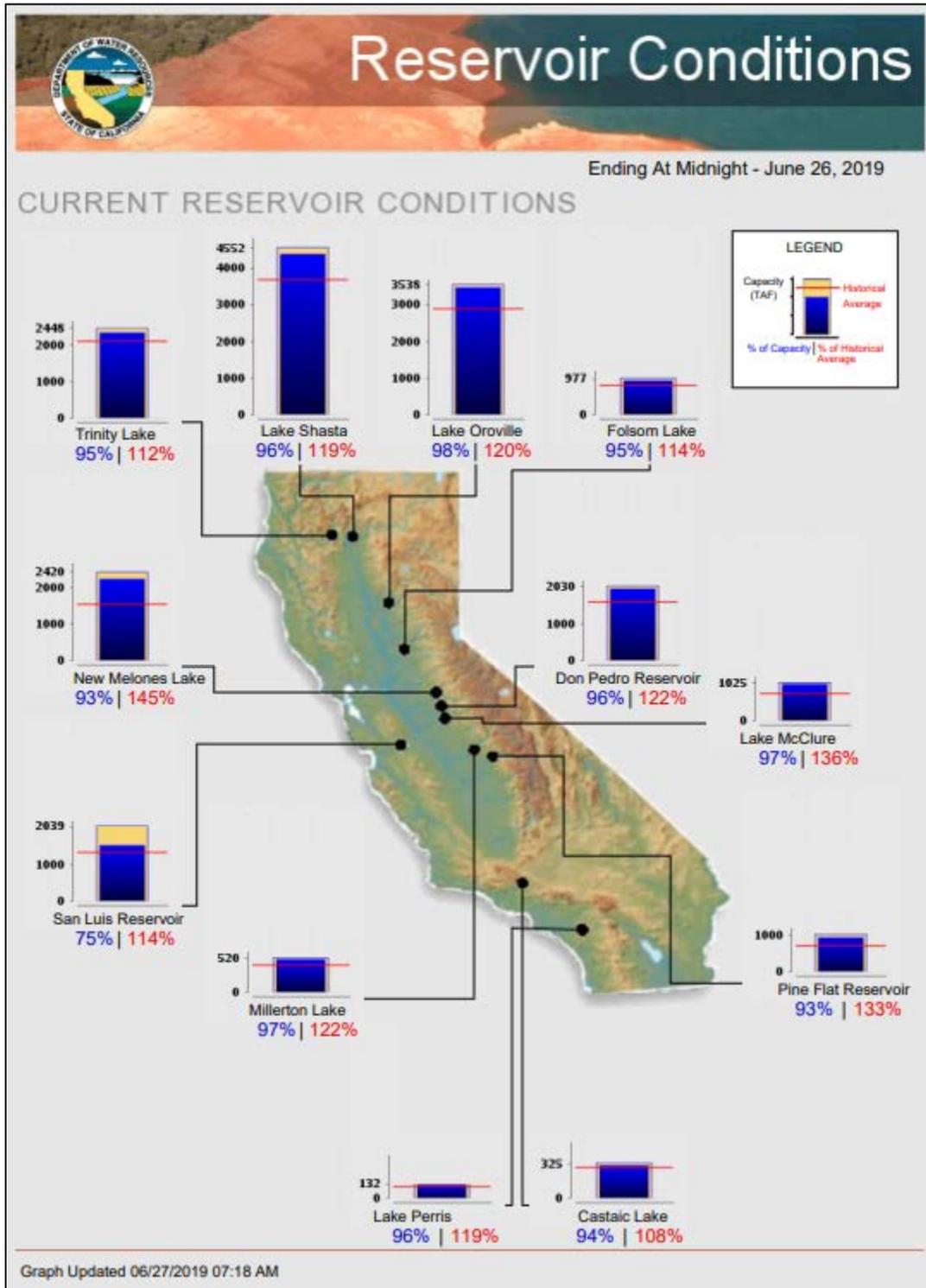
Hydromet Tea Cup Reservoir Depictions

Source: U.S. Bureau of Reclamation

- [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

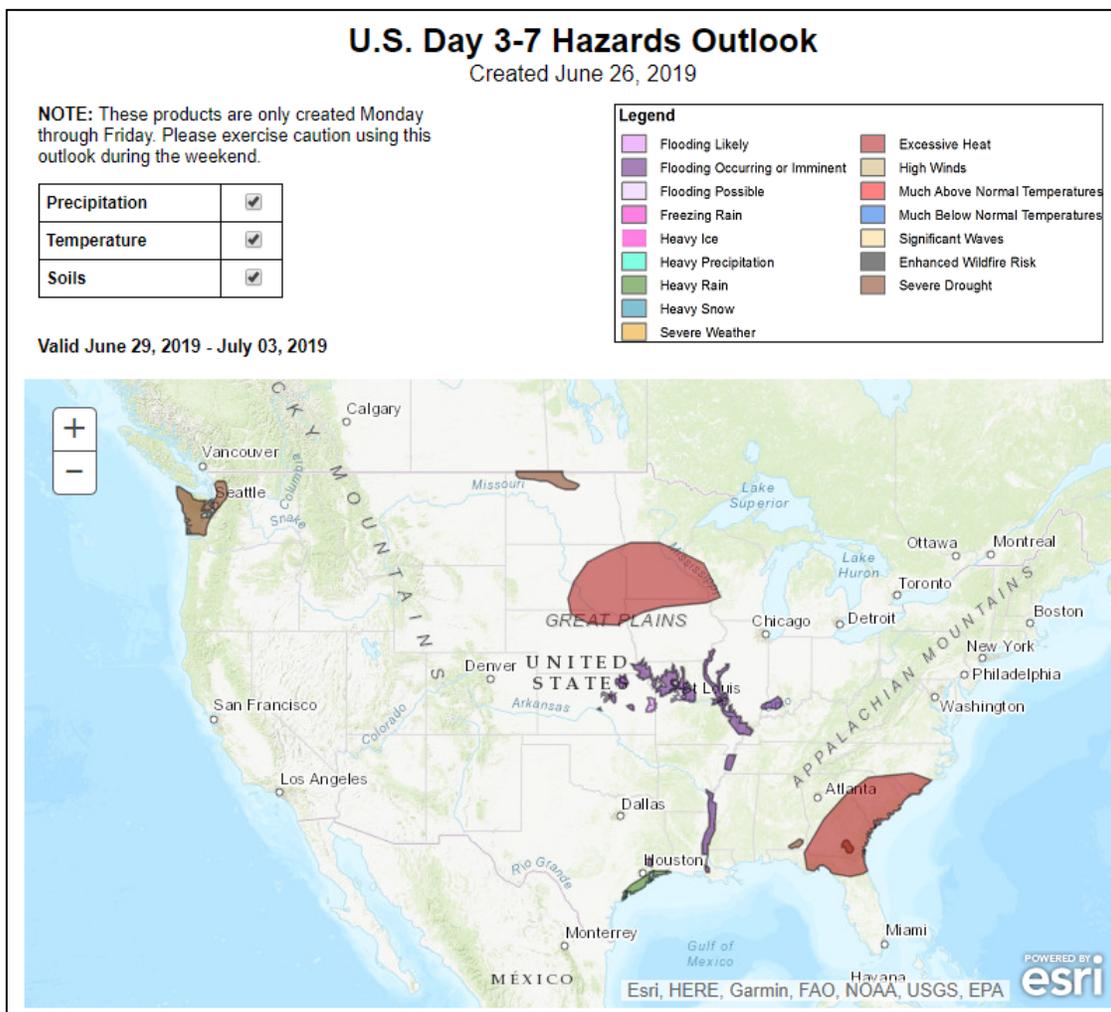
Agricultural Weather Highlights

Author: Eric Luebehusen, Agricultural Meteorologist, USDA/OCE/WAOB

National Outlook, Thursday, June 27, 2019: “During the next several days, the focus for significant rainfall will mostly remain across the northern U.S., including parts of the northern Plains and the Midwest. Widespread showers will also affect the Gulf Coast region. In contrast, mostly dry weather will prevail in California, the Great Basin, and the southern Plains. A few Southwestern showers may develop in advance of the official start of the summer rainy season. Elsewhere, an extended period of cooler-than-normal weather in the Pacific Coast States and the Northwest should contrast with near- or above-normal temperatures across much of the central and eastern U.S. The NWS 6- to 10-day outlook for July 2 – 6 calls for wetter-than-normal weather across most of the country. Below-normal rainfall should be confined to the lower Southeast and parts of the Southwest. Meanwhile, above-normal temperatures in the Pacific Northwest and across most of the eastern half of the U.S. will contrast with cooler-than-normal conditions in the western Gulf Coast region and much of the West.”

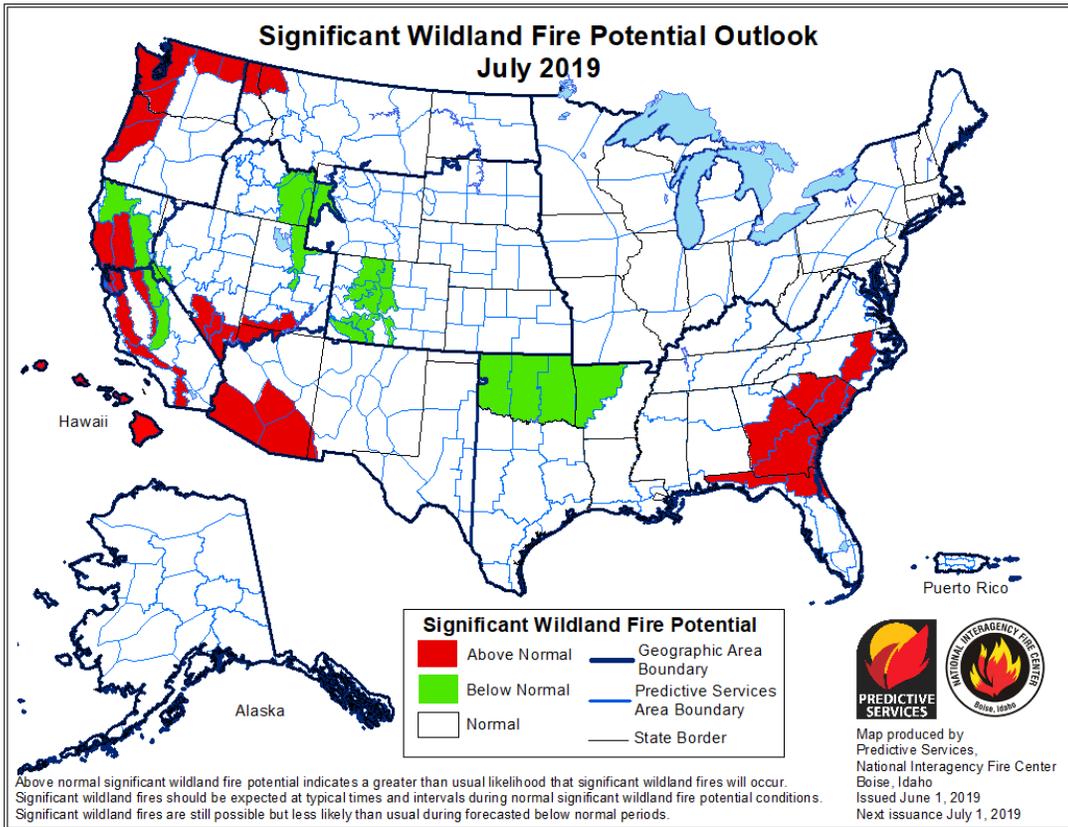
Weather Hazards Outlook: June 29 – July 3, 2019

Source: NOAA Climate Prediction Center



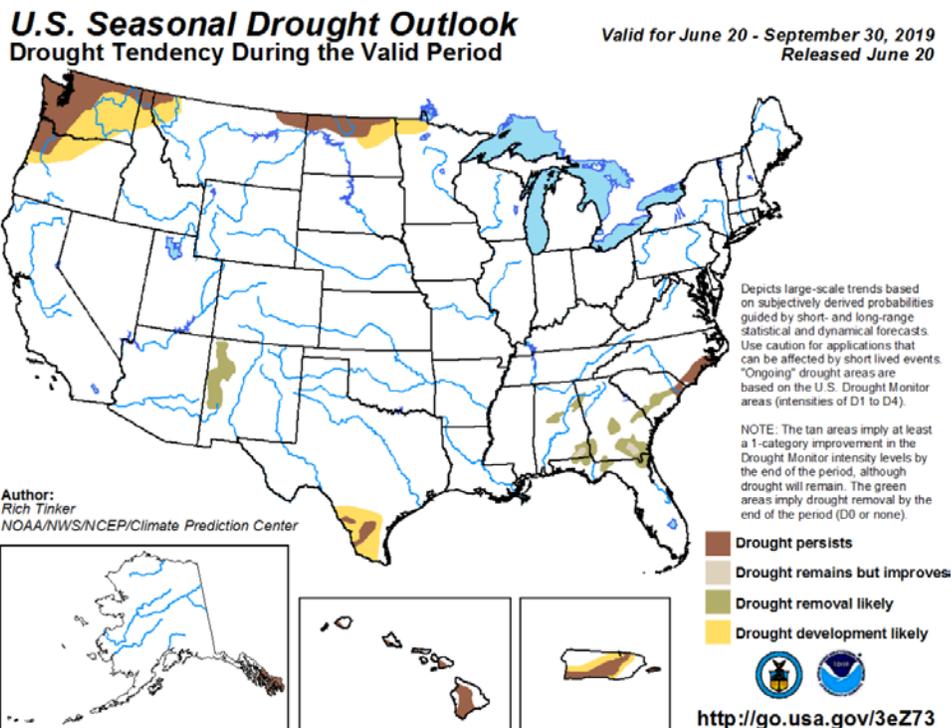
Significant Wildland Fire Potential Outlook

Source: National Interagency Fire Center



Seasonal Drought Outlook: June 20 – September 30, 2019

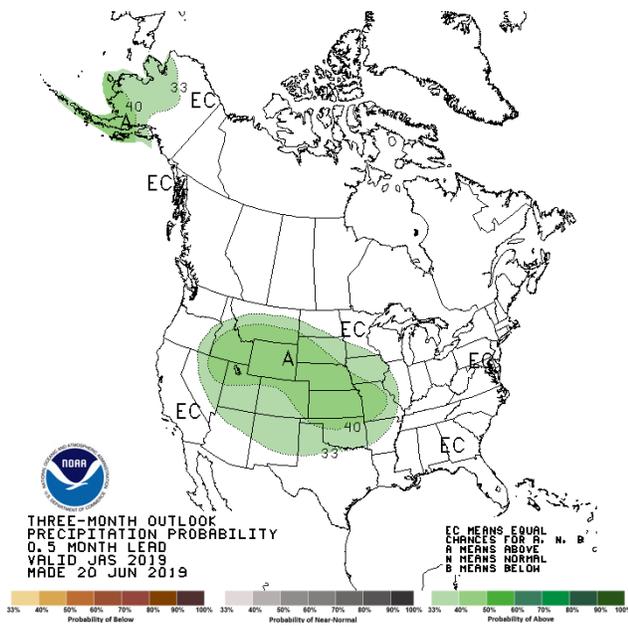
Source: National Weather Service



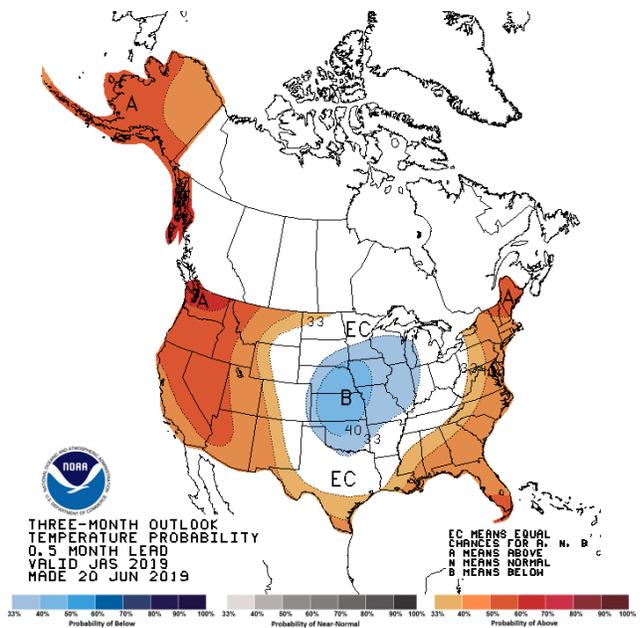
Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation



Temperature



[July-August-September \(JAS\) 2019 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](#).