

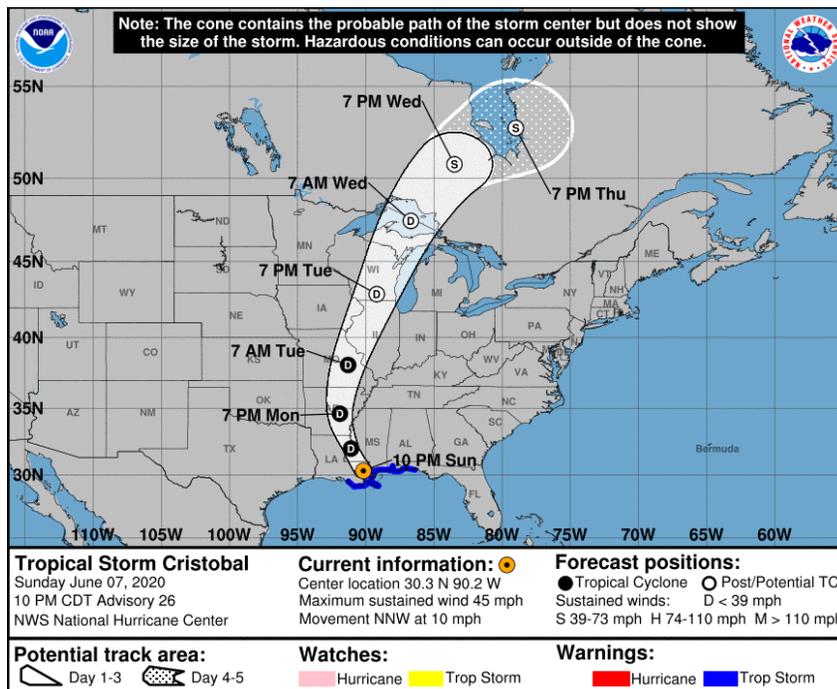
Water and Climate Update

June 11, 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.

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Precipitation	3	Other Climatic and Water Supply Indicators	12
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Tropical Storm Cristobal makes landfall in Louisiana

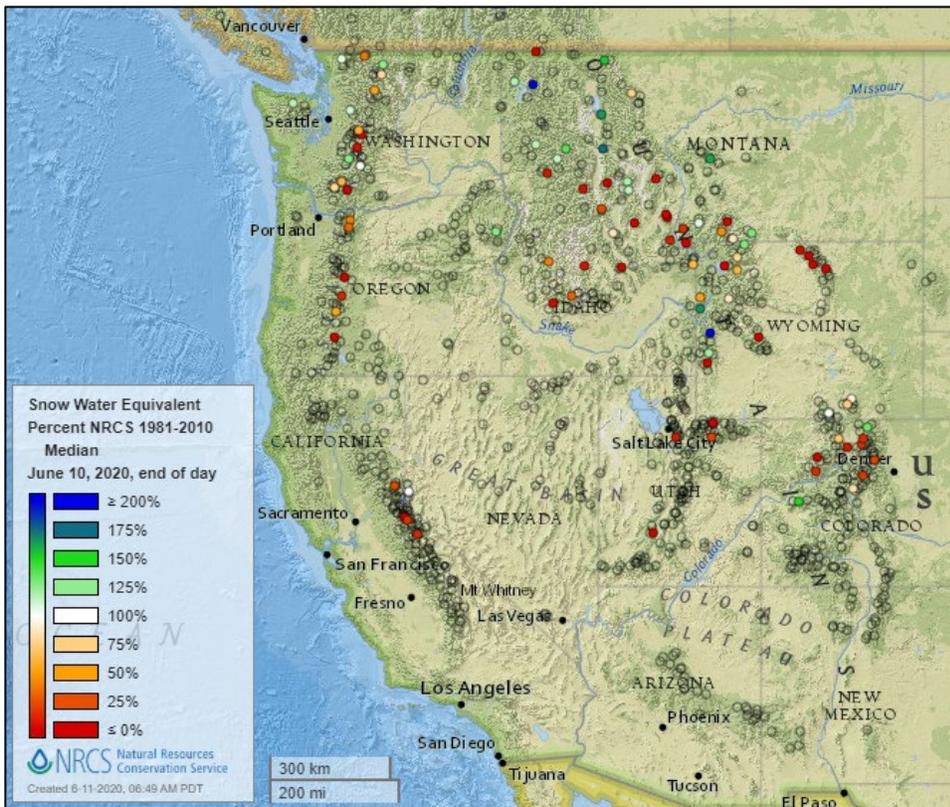


The third named tropical storm of the season, Tropical Storm Cristobal, made landfall in Louisiana on Sunday. Louisiana declared states of emergency due to heavy rain, flooding, and winds from the storm with a storm surge of 5 feet and waves as high as 15 feet. It was downgraded to a tropical depression once it began travelling over land. The storm took a highly unusual path up through the middle of the U.S., leaving heavy rain and flooding. It was only the third time remnants of a tropical storm have made it to Wisconsin, and the first time one has reached Lake Superior.

Related:

- [Tropical Storm Cristobal makes landfall along Louisiana](#) – USA Today
- [Cristobal caused 'substantial' damage to Louisiana levee, concern grows for active hurricane season forecast](#) – Fox News
- [Cristobal to merge with new storm system after lashing South](#) – NBC News
- [Tropical storm Cristobal to soak eastern Iowa Tuesday](#) – Des Moines Register (IA)
- [NWS: 'Brief tornado spin-ups' possible in midstate because of Tropical Storm Cristobal](#) – Tennessean (TN)
- [Tropical Storm Cristobal is expected to drench Wisconsin, storm path becomes more clear with areas west of Madison expected to get hit](#) – Milwaukee Journal Sentinel (WI)

Snow

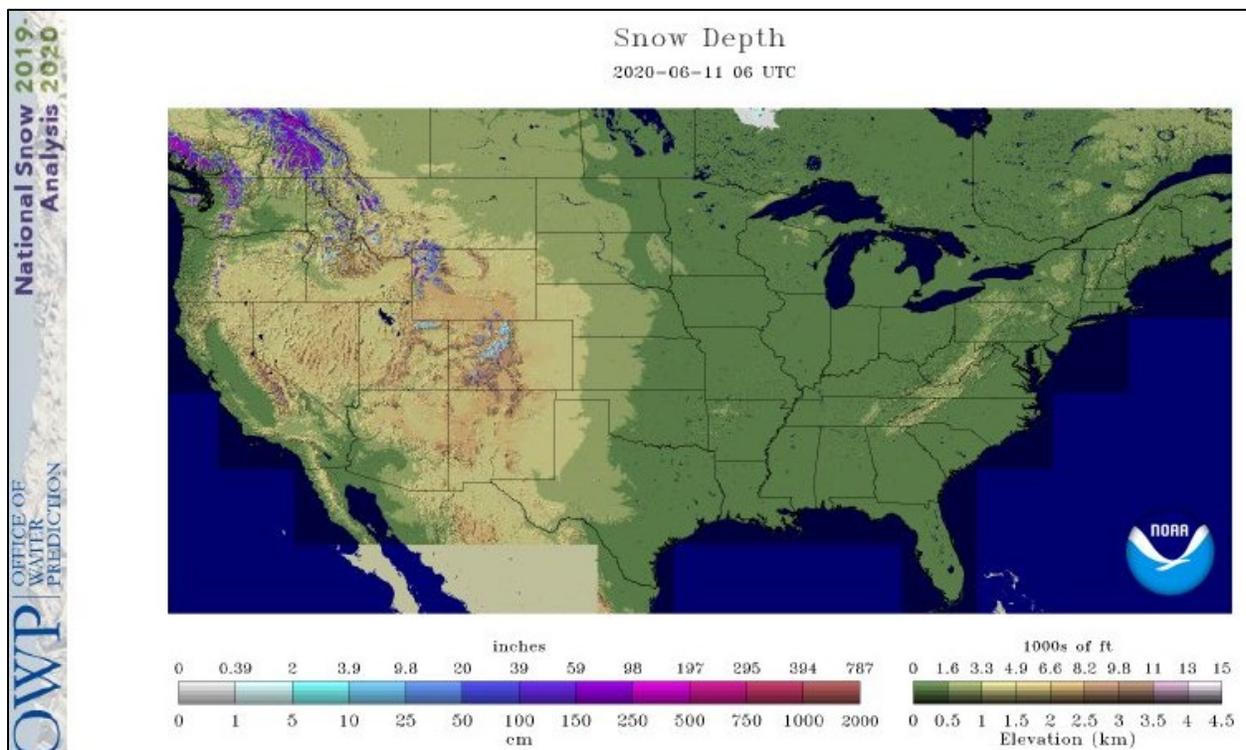


[Snow water equivalent percent of median map](#)

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

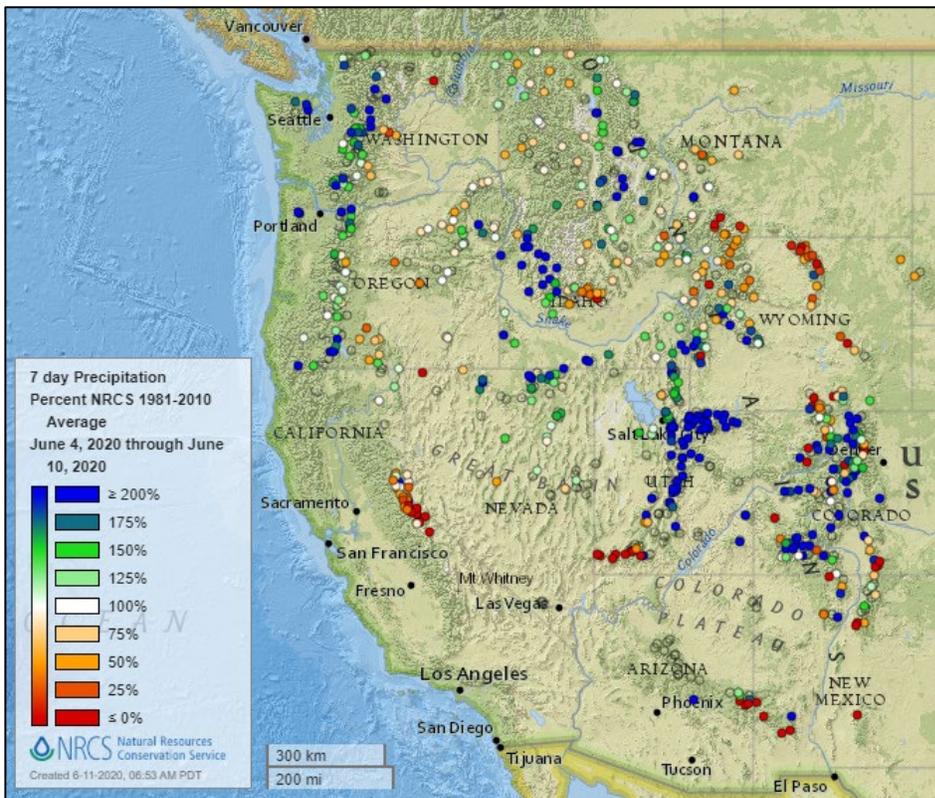
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA Office of Water Prediction



Precipitation

Last 7 Days, NRCS SNOTEL Network

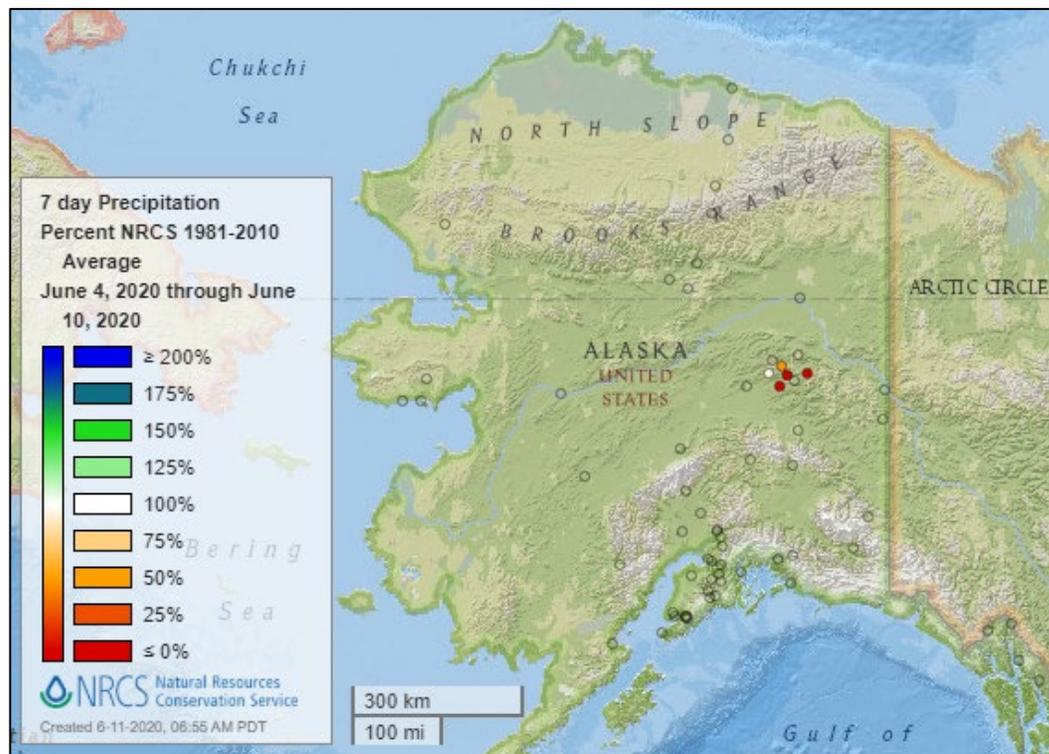


[7-day precipitation percent of average map](#)

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](#)



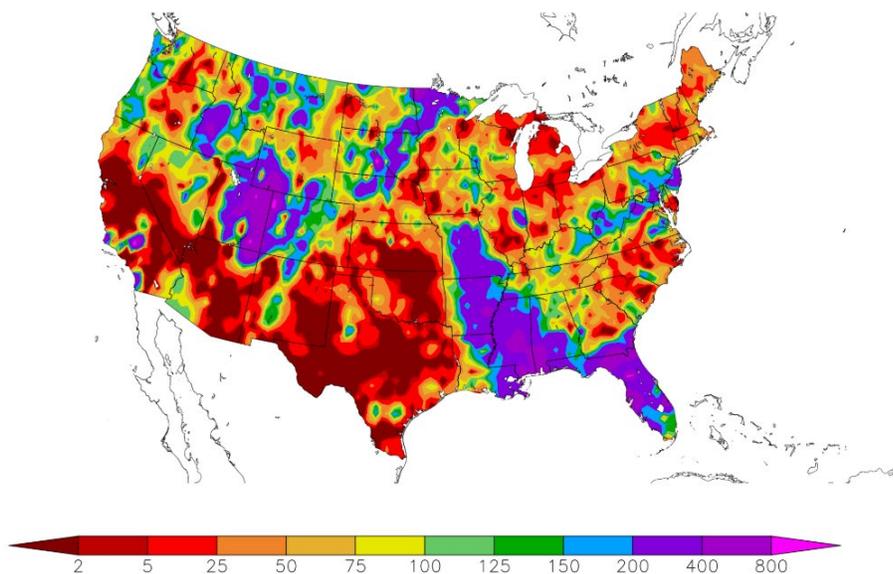
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
6/3/2020 – 6/9/2020



Generated 6/10/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

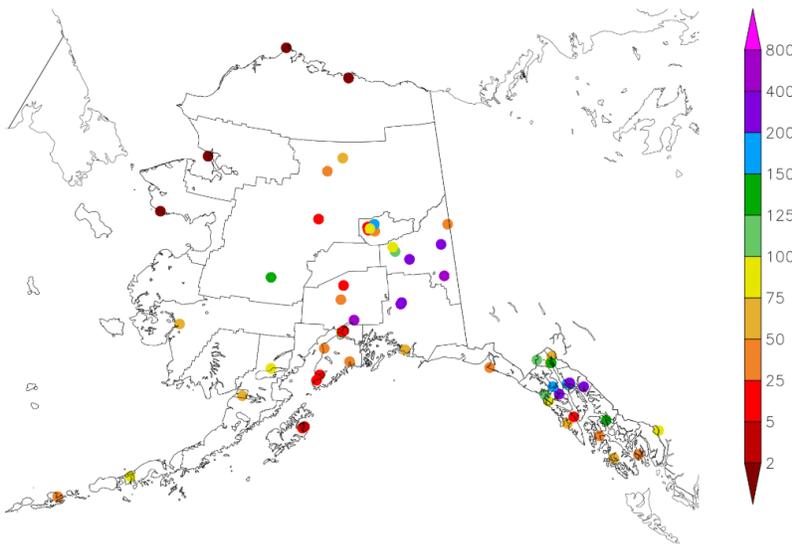
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
6/3/2020 – 6/9/2020



Generated 6/10/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

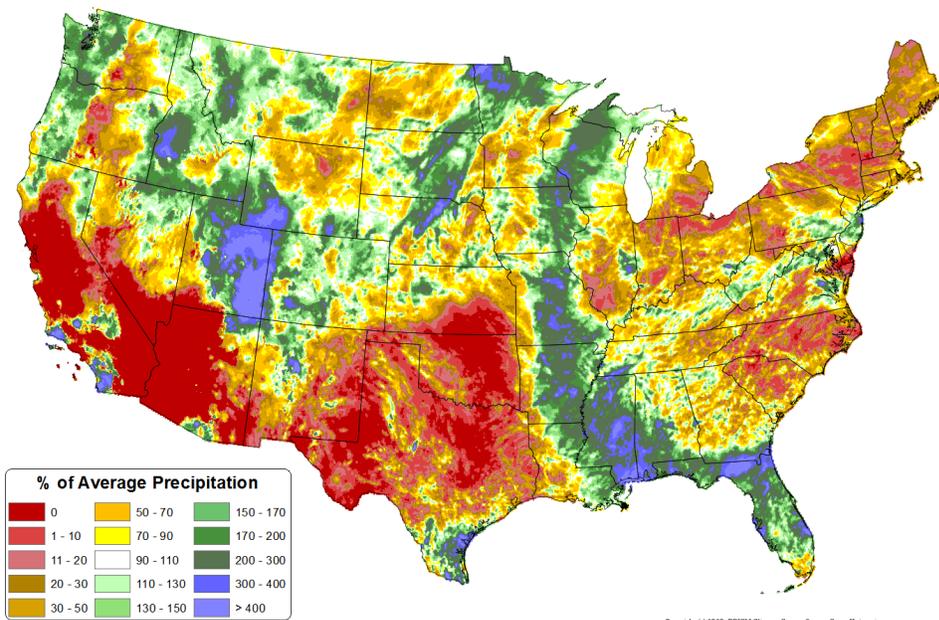
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Jun 2020 - 10 Jun 2020
Period ending 7 AM EST 10 Jun 2020
Base period: 1981-2010
(Map created 11 Jun 2020)

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

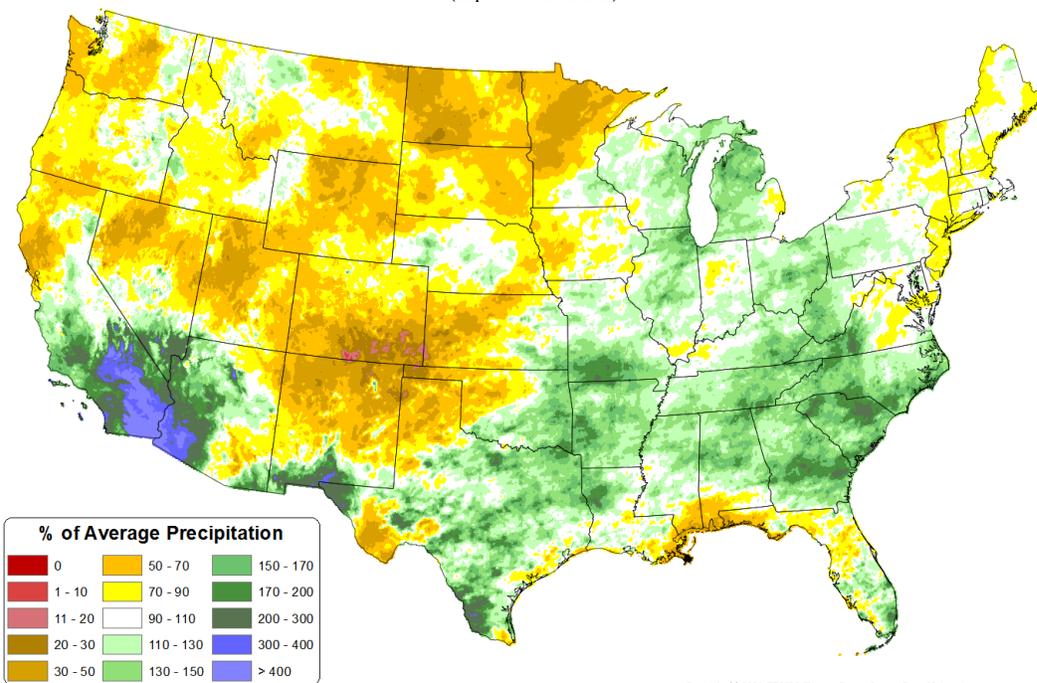


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

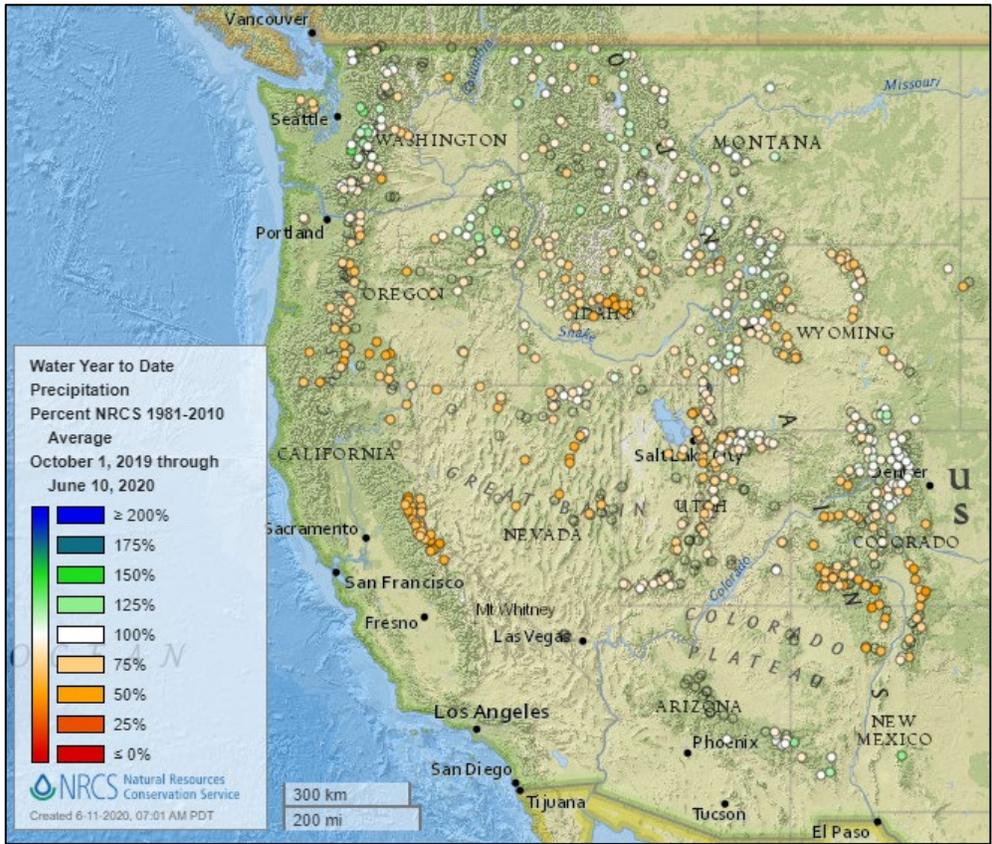
Source: PRISM

[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)

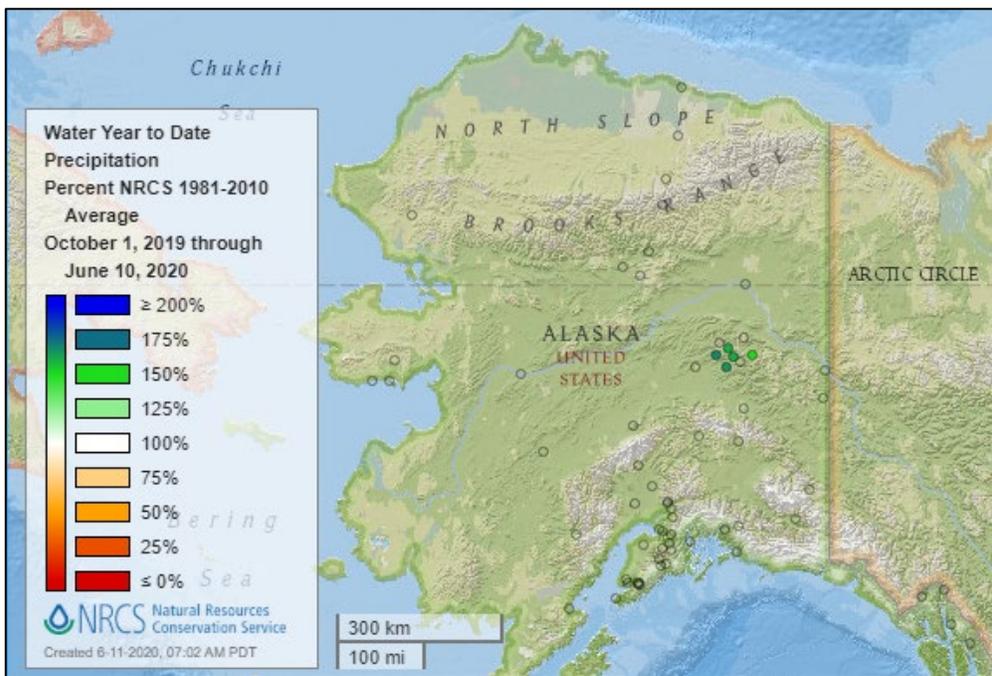


Water Year-to-Date, NRCS SNOTEL Network



[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

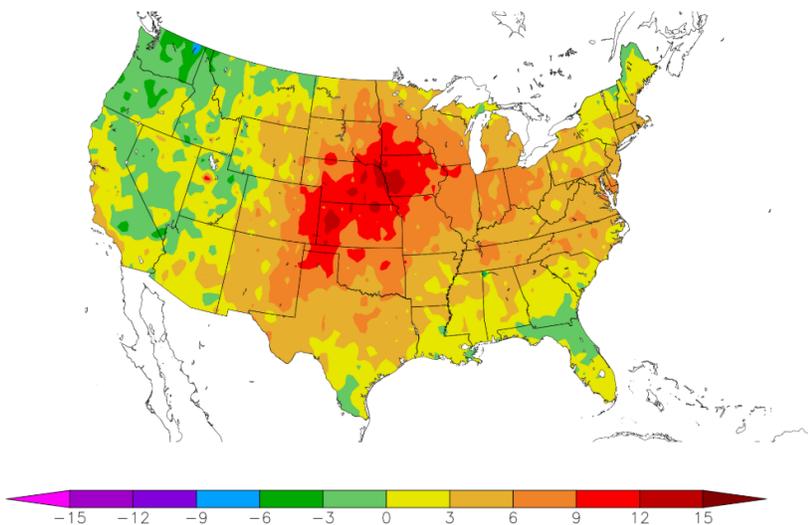
Last 7 Days, National Weather Service (NWS) Networks

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)
6/3/2020 – 6/9/2020



Generated 6/10/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

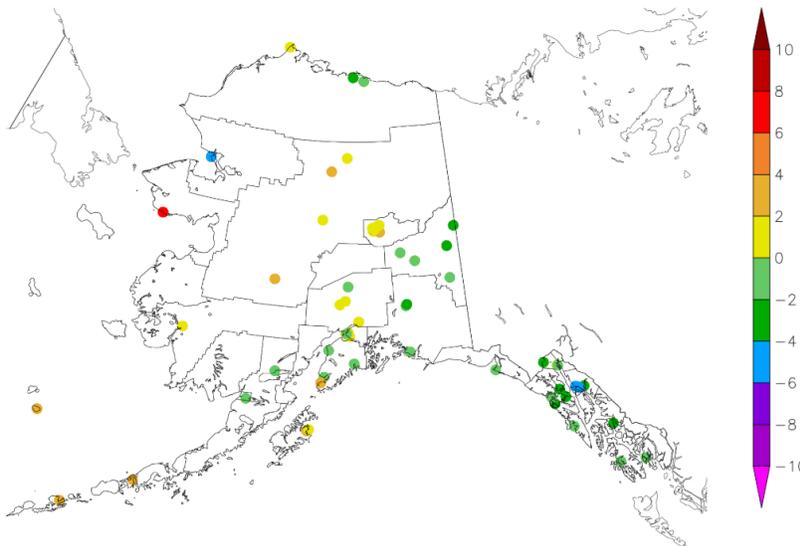
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
6/3/2020 – 6/9/2020



Generated 6/10/2020 at HPRCC using provisional data.

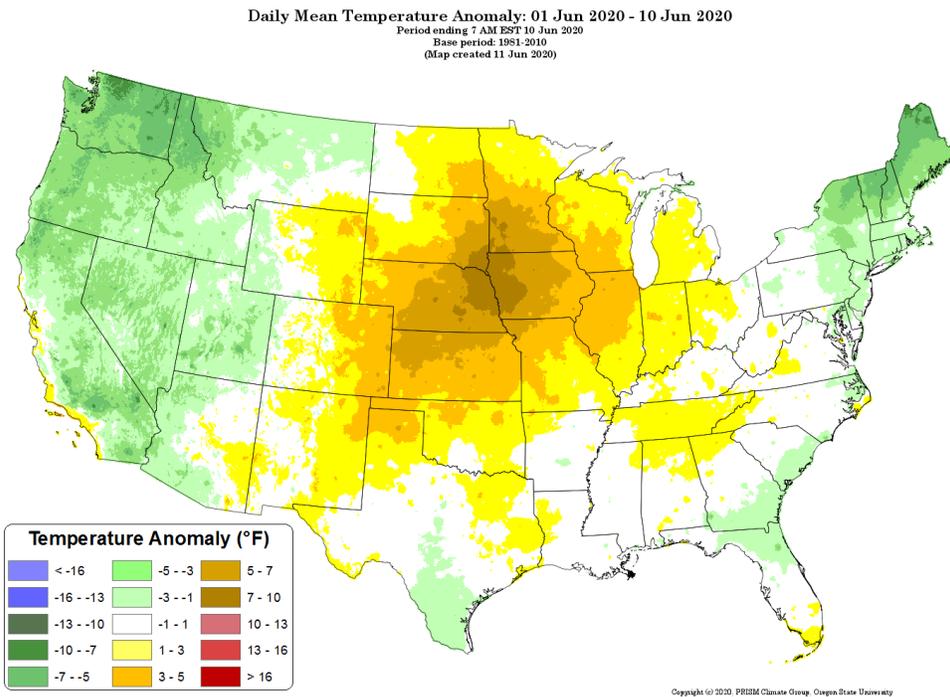
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

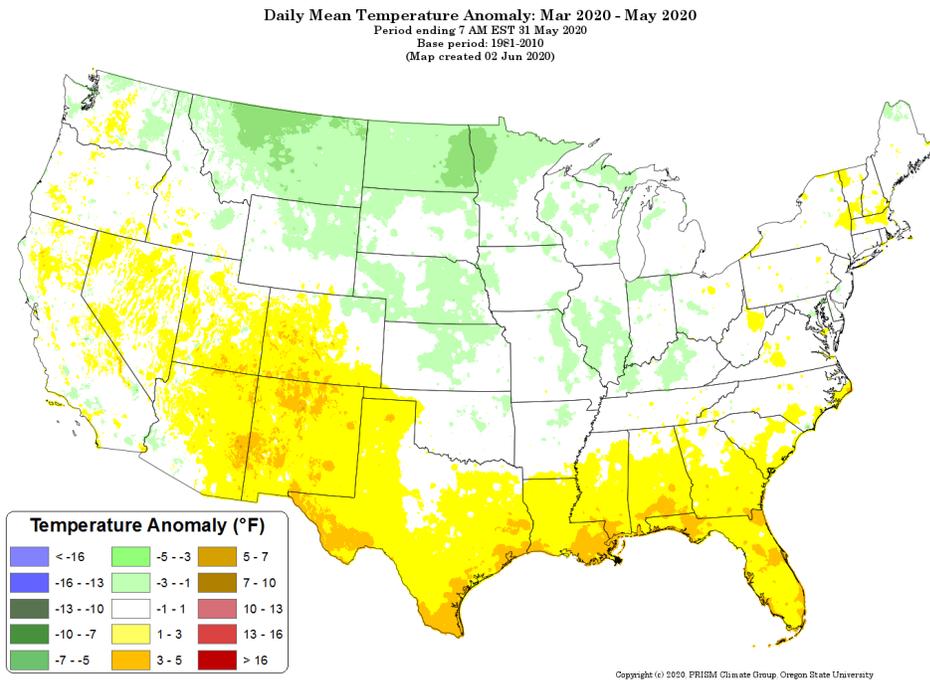
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

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



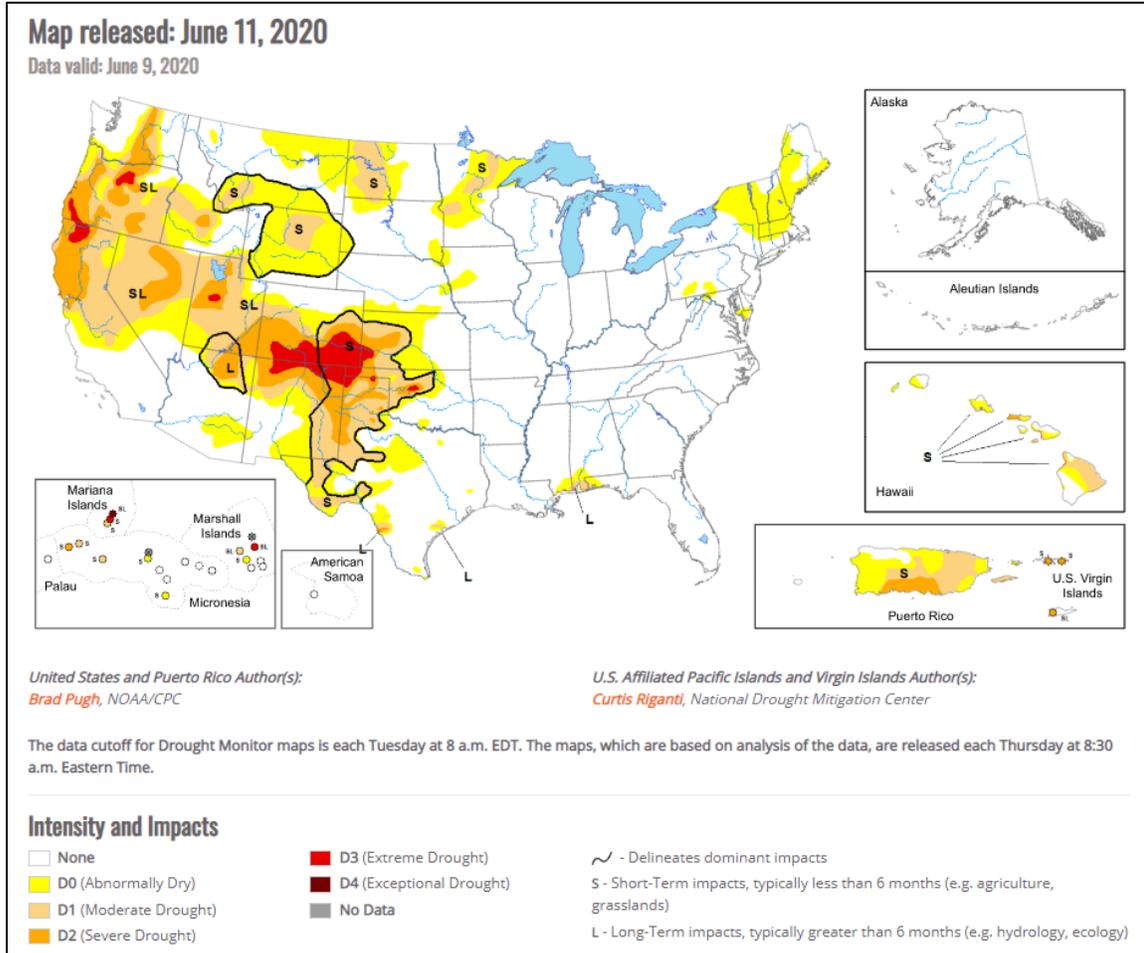
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



[Current National Drought Summary, June 11, 2020](#)

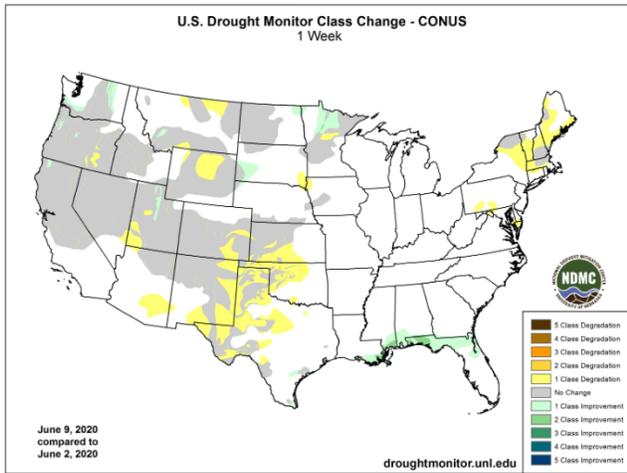
Source: National Drought Mitigation Center

“A strong upper-level ridge developed over the Southwest at the beginning of June, and expanded east to the southern Great Plains. 7-day temperatures (June 2 to 8) averaged more than 10 degrees F above normal across much of the southern to central Great Plains until a strong cold front arrived on June 9. From June 6 to 8, a vigorous upper-level trough progressed east and resulted in varying amounts of rainfall and much cooler temperatures from the Pacific Northwest to the northern Rockies and northern Great Plains. Around the periphery of the upper-level ridge, mesoscale convective systems with severe thunderstorms and locally heavy rain (more than 2 inches) occurred from the Upper and Middle Mississippi Valley southeast to the mid-Atlantic. After spending multiple days stationary over southern Mexico, Tropical Storm Cristobal tracked north across the Gulf of Mexico and made landfall in southeast Louisiana on June 7. The heaviest rainfall occurred to the east of its landfall. 7-day precipitation amounts (ending 12Z June 9) exceeded 5 inches, with locally higher amounts, from the Mississippi Gulf Coast east to the Florida Panhandle. A weak surface low remained located across the Gulf of Alaska at the beginning of June. The most widespread rainfall (more than 1 inch) occurred across southeast coastal Alaska, while scattered convection raised wildfire concerns over the interior of Alaska. Rainfall was suppressed across Hawaii this past week, while heavy rainfall occurred well west of Puerto Rico during the first week of June.”

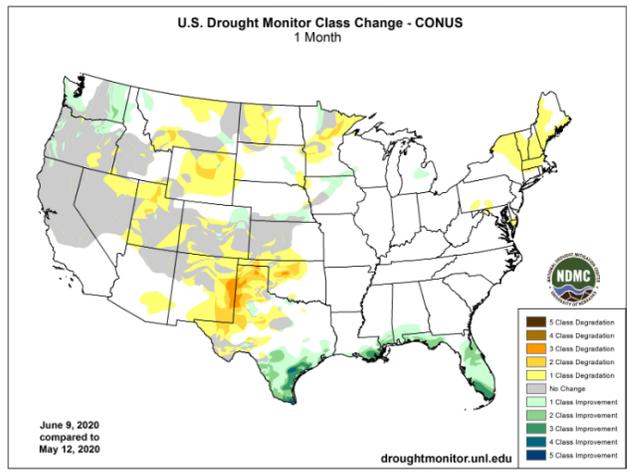
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

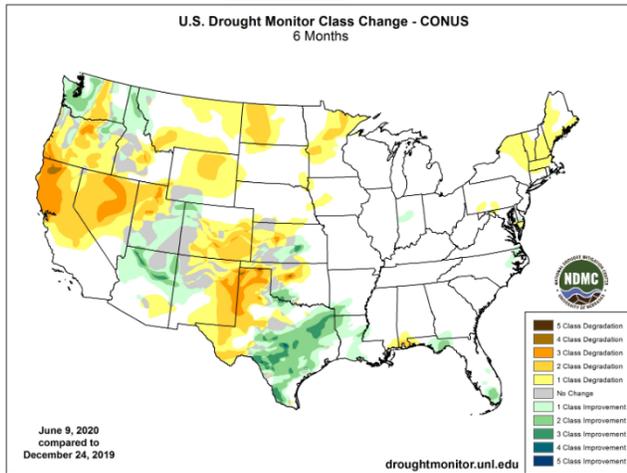
1 Week



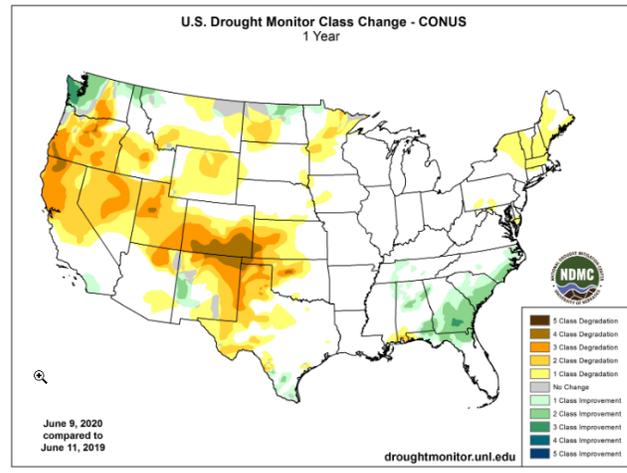
1 Month



6 Months



1 Year



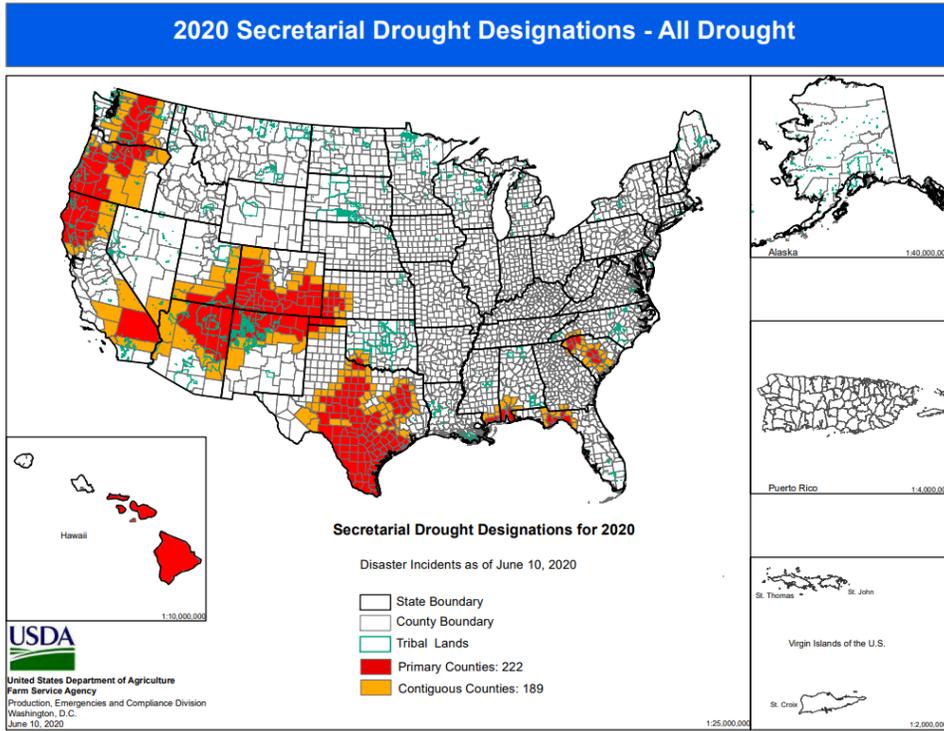
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

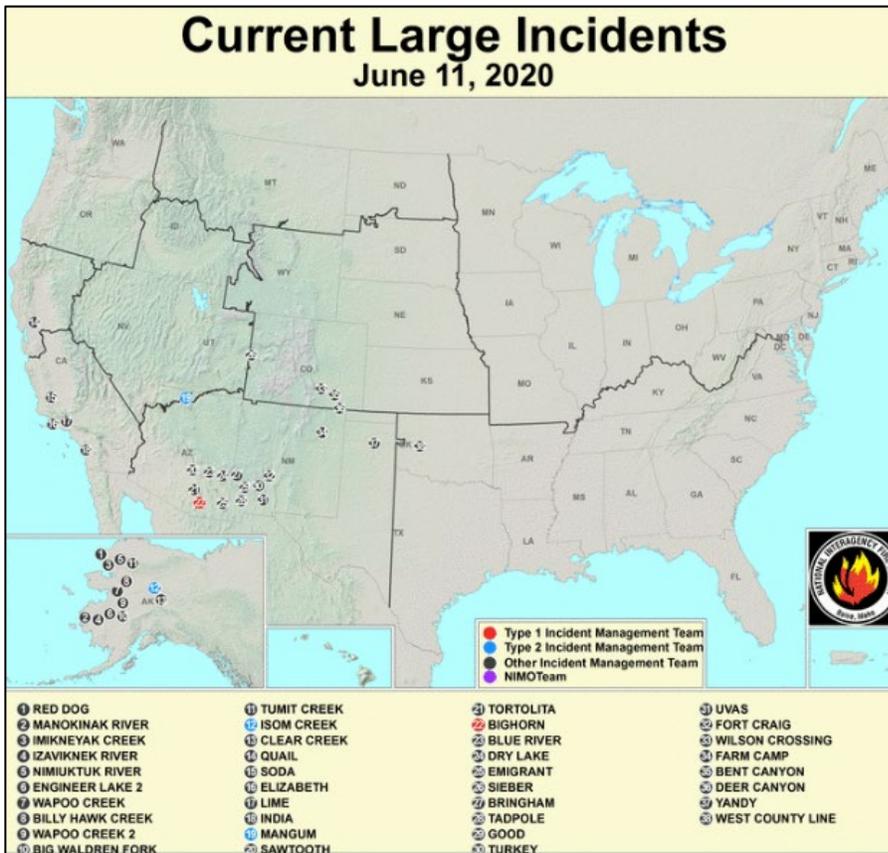
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



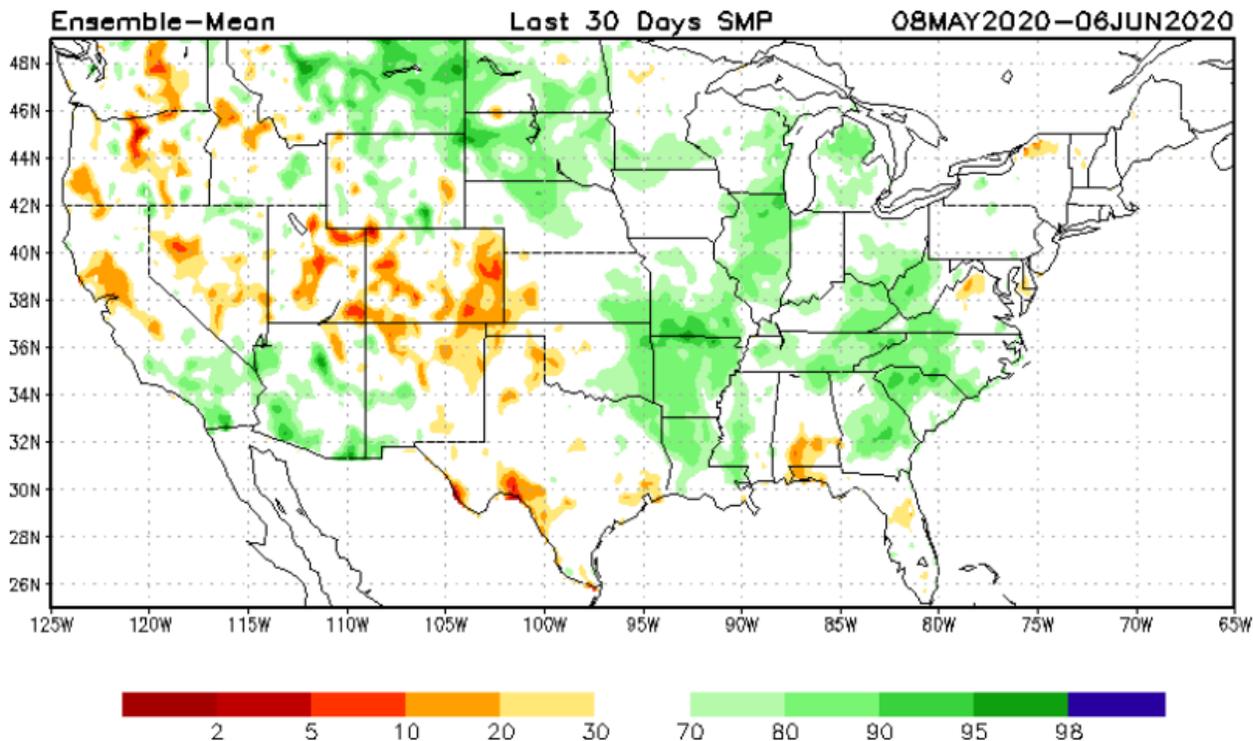
Highlighted Wildfire Resources

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

Other Climatic and Water Supply Indicators

Soil Moisture

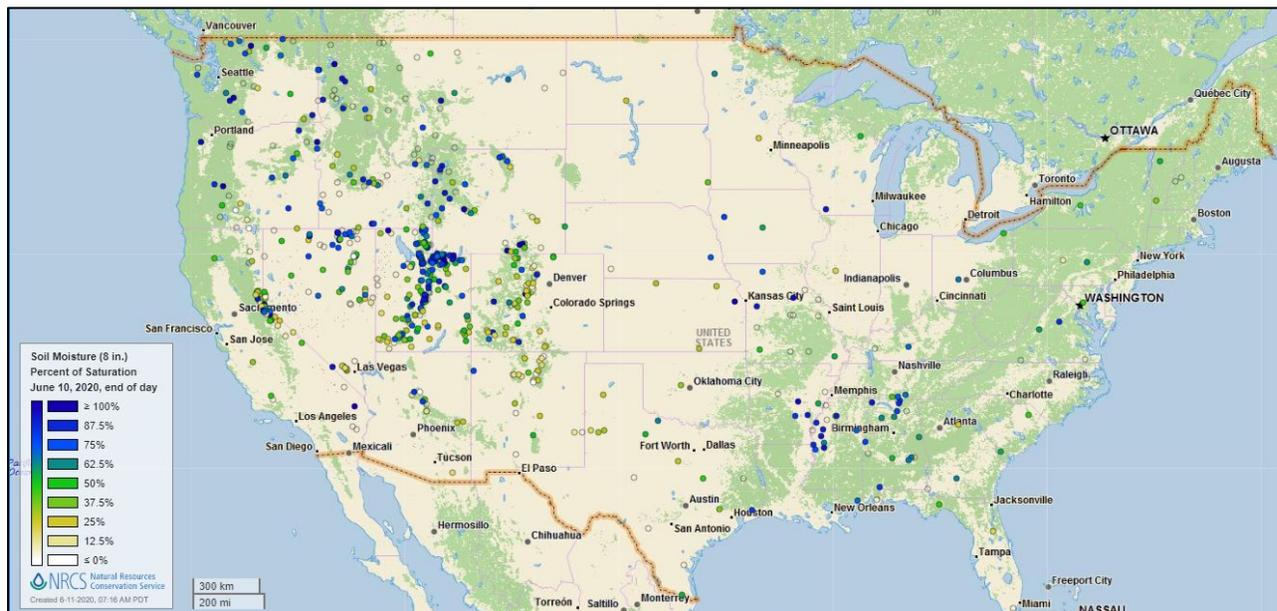
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of June 6, 2020

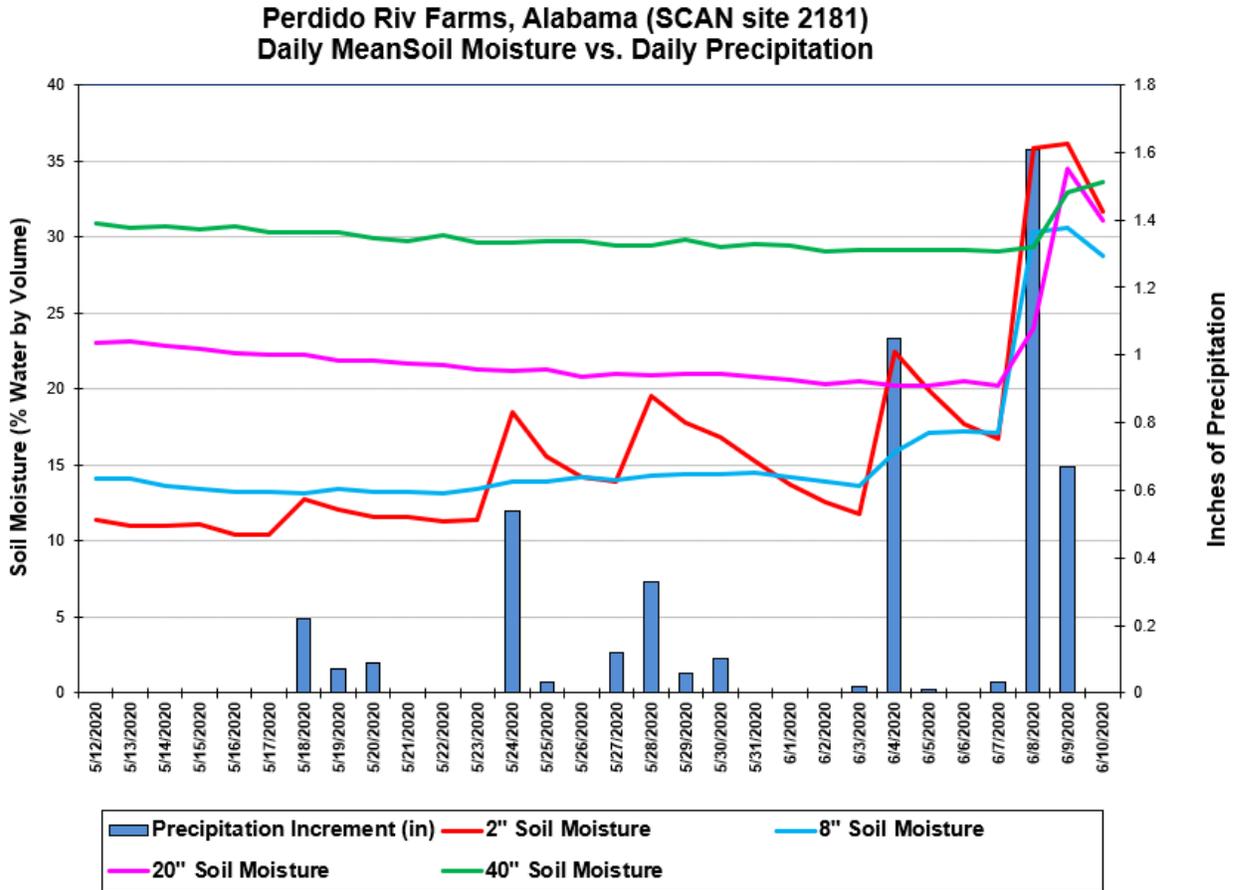
Soil Moisture Percent of Saturation

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 [Perdido Riv Farms](#) SCAN site in Alabama. Precipitation on June 8 and 9 increased soil moisture at all sensor depths.

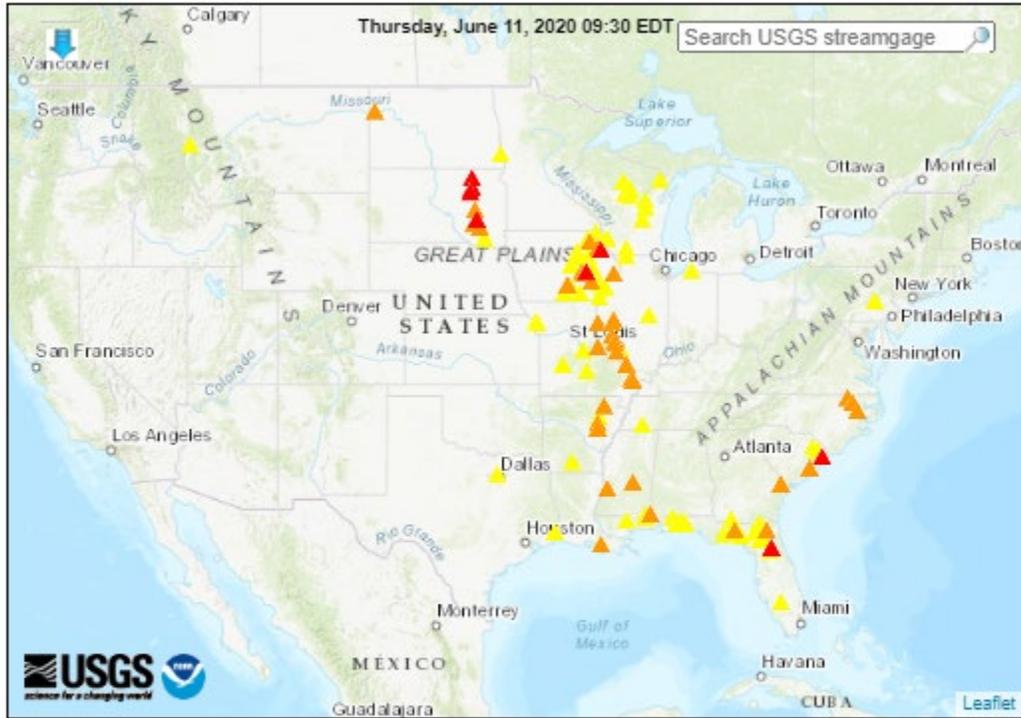
Soil Moisture Data Portals

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

Streamflow, Drought, Flood, and Runoff

Source: U.S. Geological Survey

Map of flood and high flow conditions
 (44 in floods [moderate: 8, minor: 36], 65 in near-flood)



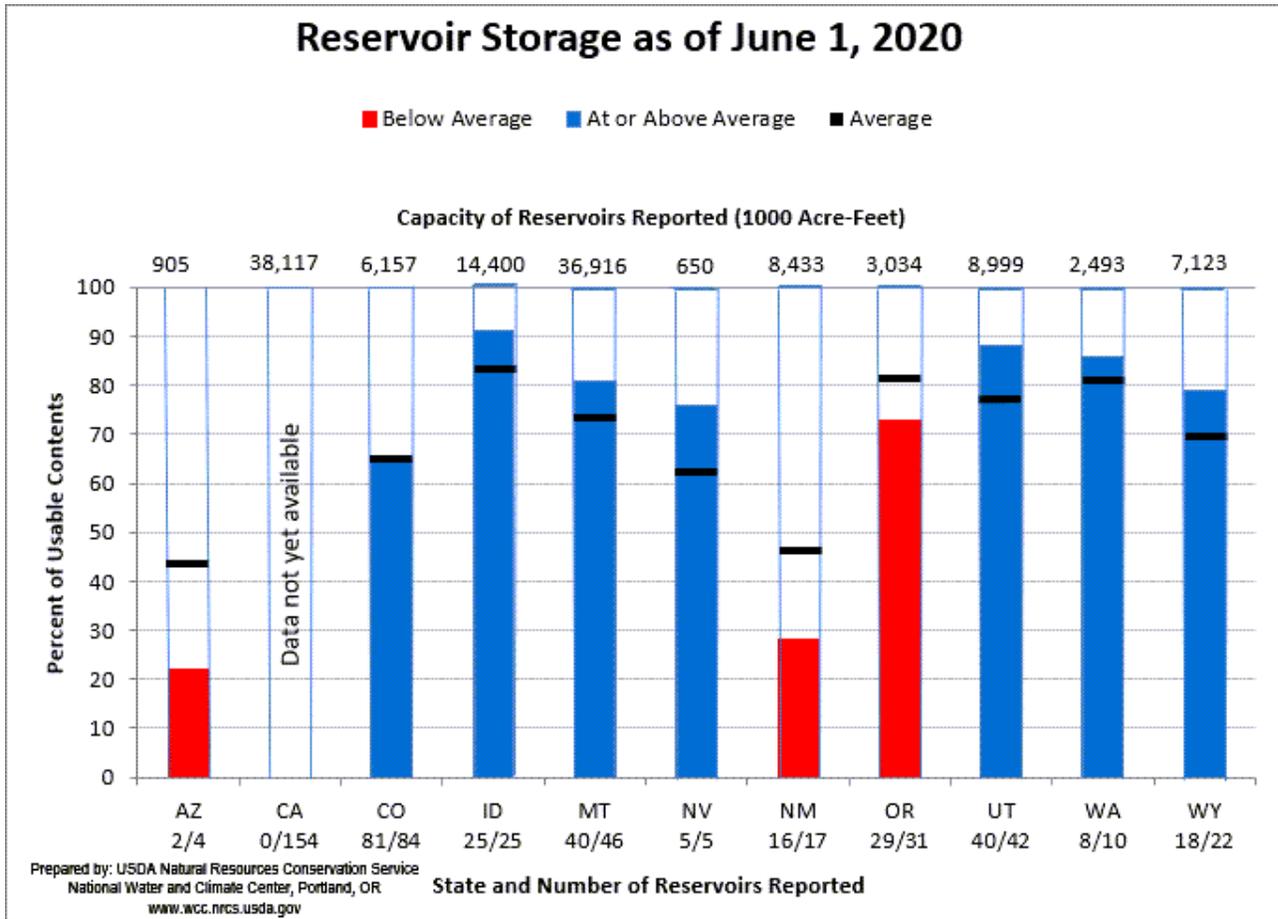
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			△ Streamgauge with flood stage	○ Streamgauge without flood stage		

[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](#)

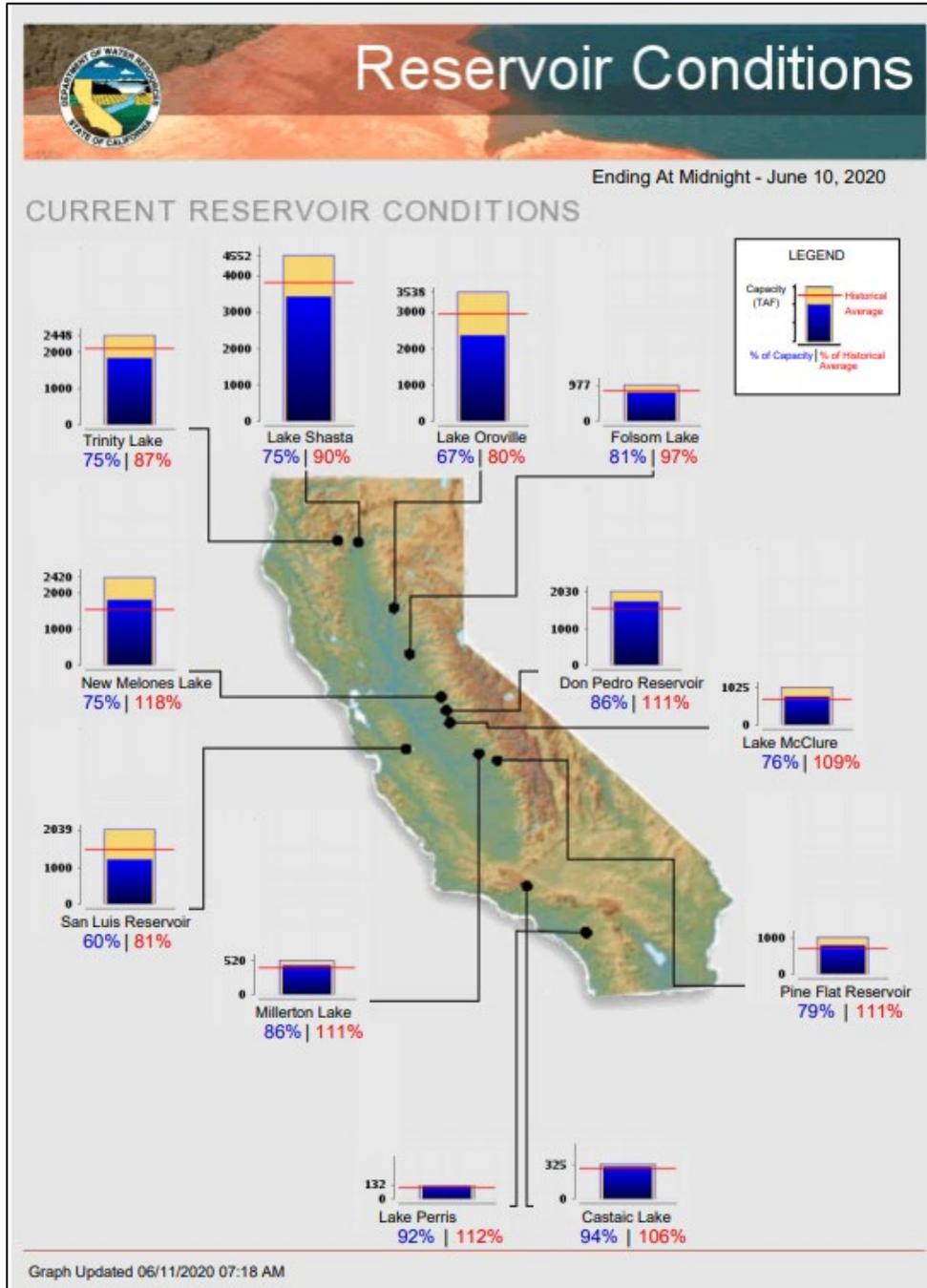
Hydromet Teacup Reservoir Depictions

Source: U.S. Bureau of Reclamation

- [Upper Colorado](#)
- [Pacific Northwest/Snake/Columbia](#)
- [Sevier River Water, Utah](#)
- [Upper Missouri, Kansas, Oklahoma, Texas](#)

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

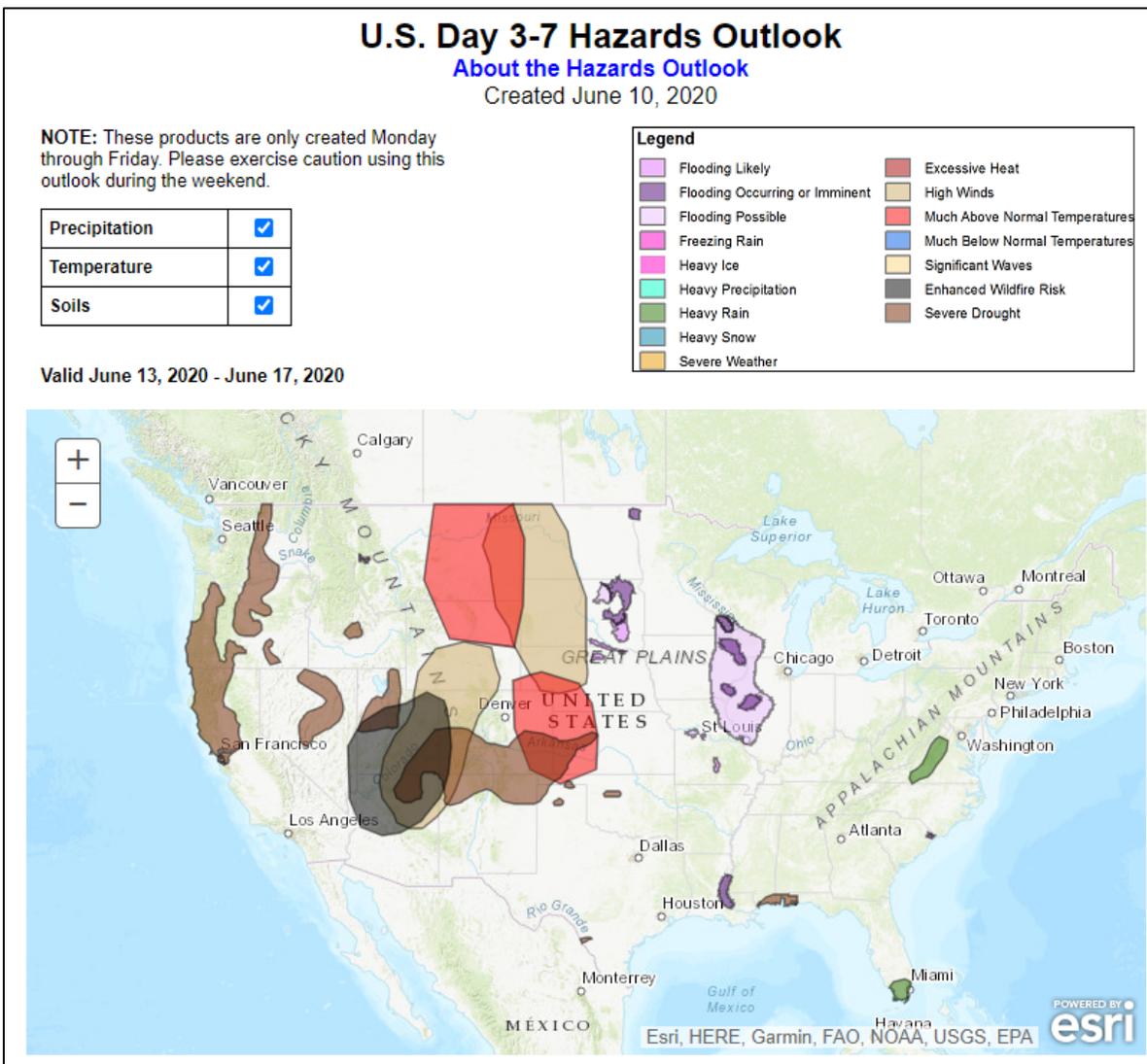
Agricultural Weather Highlights

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

National Outlook, Wednesday, June 10, 2020: “For today and Thursday, a cold front sweeping eastward will introduce cooler, drier air into the central and eastern U.S. In advance of the front’s passage, however, hot, humid weather will accompany showers and thunderstorms. In the eastern U.S., rainfall could reach 1 to 2 inches or more. Showers may linger into the weekend, however, in the middle and southern Atlantic States, boosting 5-day rainfall totals to 2 to 4 inches in a few spots. Meanwhile, Western warmth will continue to expand eastward through Thursday, followed by a late-week surge of cool air. During the weekend and early next week, a ribbon of warmth across the nation’s mid-section will lie between areas of below-normal temperatures in the Far West and from the Mississippi Valley eastward, respectively. Little or no precipitation will fall across the western and central U.S. during the next 5 days, except for occasional showers in the Northwest. The NWS 6- to 10-day outlook for June 15 – 19 calls for the likelihood of above-normal temperatures across the Plains, Southwest, Northeast, and upper Midwest, while cooler-than-normal conditions will dominate the Southeast and Northwest. Meanwhile, near- or below-normal rainfall across most of the country should contrast with wetter-than-normal weather in southern Florida, across the Northwest, and along the mid-Atlantic Coast.”

Weather Hazards Outlook: [June 13 – 17, 2020](#)

Source: NOAA Weather Prediction Center

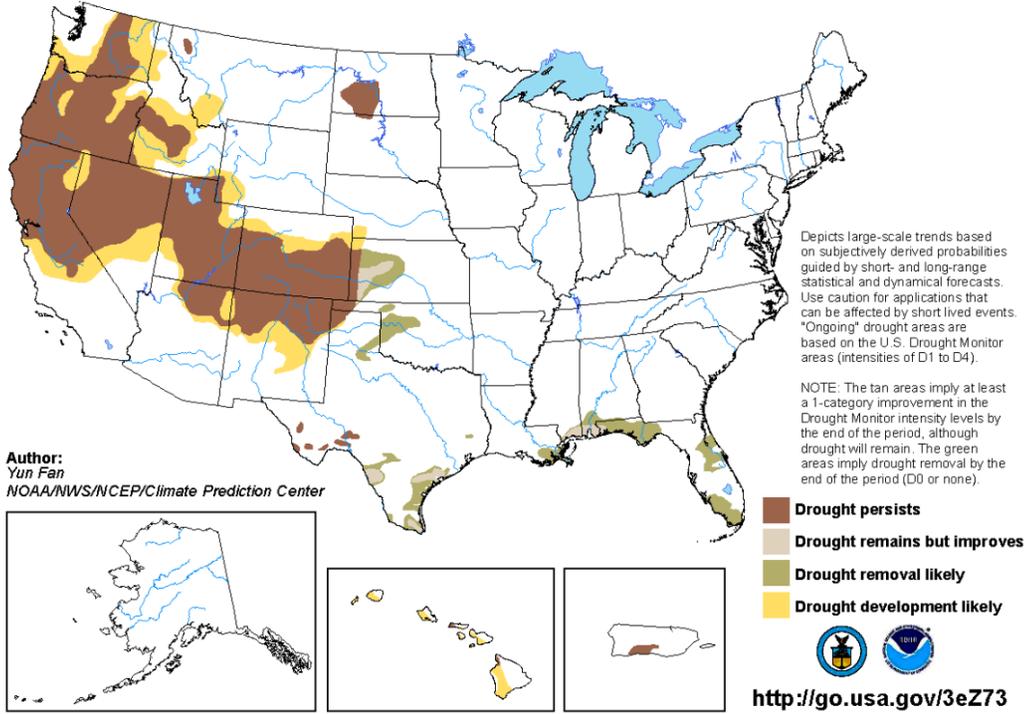


Seasonal Drought Outlook: [May 21 – August 31, 2020](#)

Source: National Weather Service

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

Valid for May 21 - August 31, 2020
Released May 21

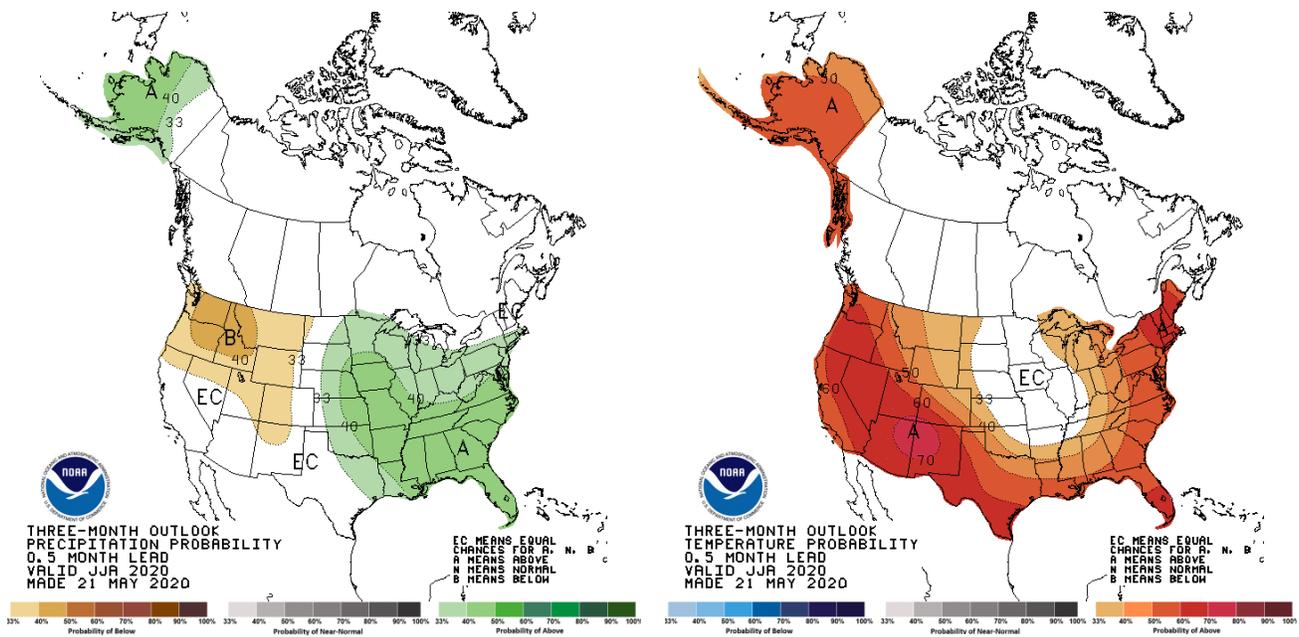


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[June-July-August \(JJA\) 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](#).