

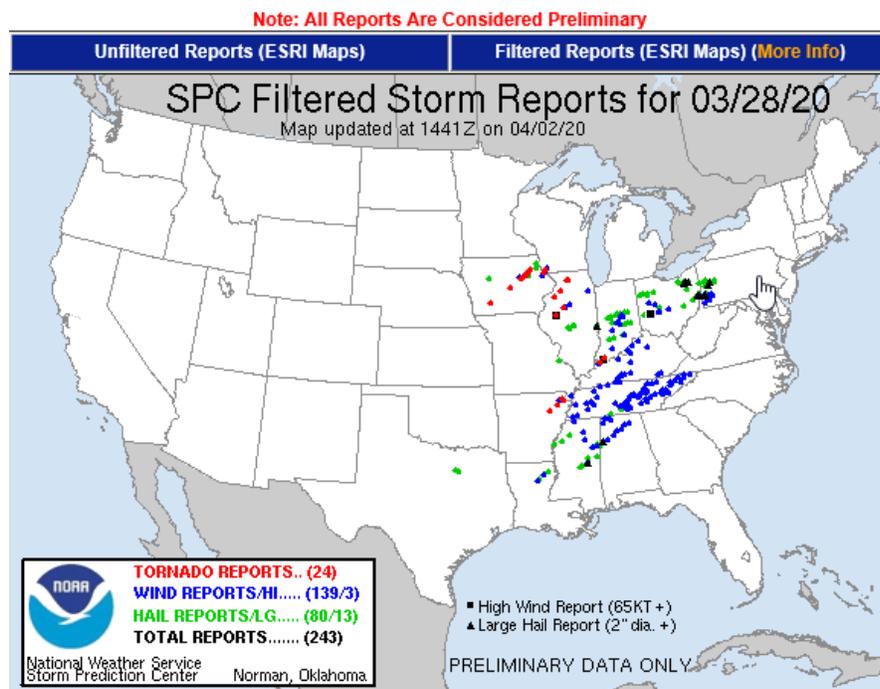
Water and Climate Update

April 2, 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.

Snow	2	Other Climatic and Water Supply Indicators	13
Precipitation	4	Short- and Long-Range Outlooks.....	17
Temperature.....	8	More Information	19
Drought	10		

Central and southern U.S. experience severe storms and tornadoes

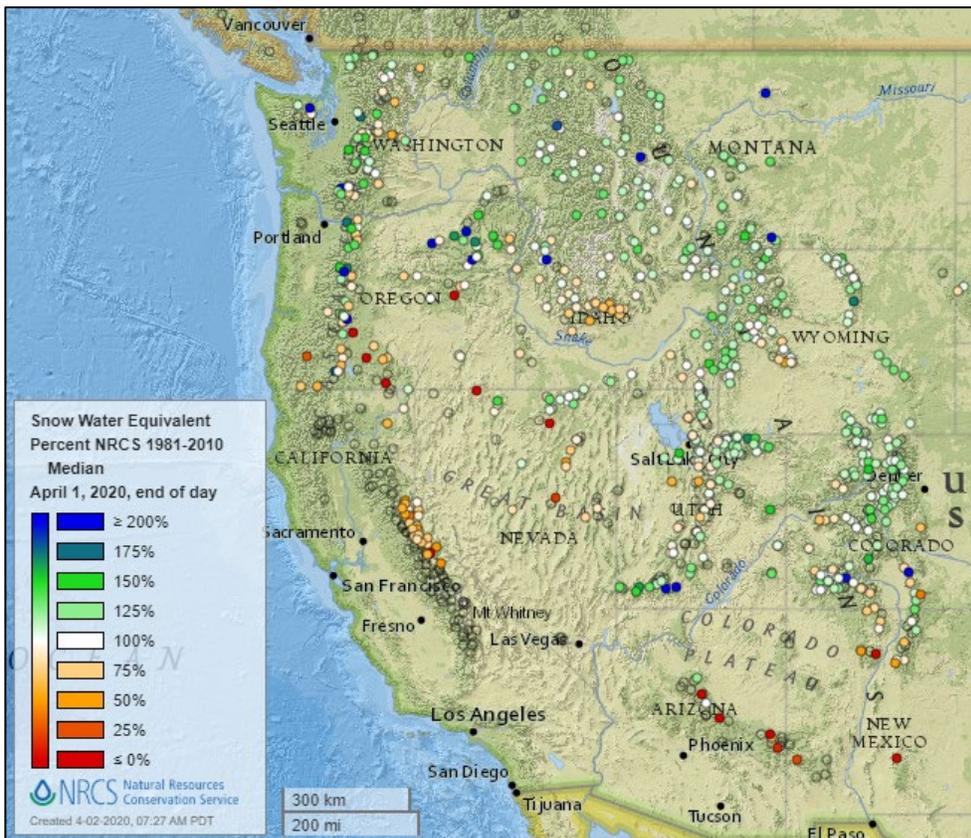


Severe storms occurred in the central and southern U.S. over the weekend damaging or destroying hundreds of homes and businesses across several states. The National Weather Service received preliminary reports of 24 tornadoes that accompanied the storms. Yesterday, severe storms also impacted the Southeast with 15 tornadoes reported in southern Mississippi, Alabama, and northern Florida.

Related:

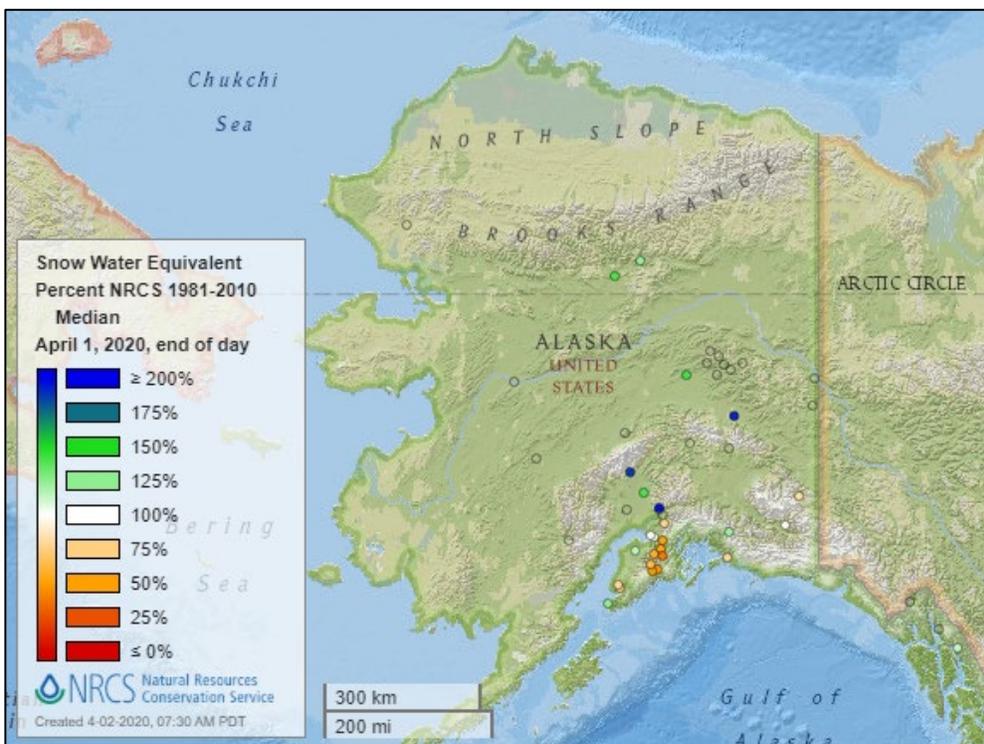
- [At least 17 reported tornadoes hit Central US during severe weather outbreak](#) - MSN
- [Hundreds of Homes Damaged, Destroyed in Arkansas Tornado](#) – U.S. News & World report
- [Tornadoes touch down in Alabama and Mississippi](#) – CNN
- [Photos: Tornadoes cause damage in Midwest, South over weekend](#) – Tulsa World (OK)
- [‘No fatalities, thank God’: Tornadoes in Arkansas, Iowa and Illinois damage homes, businesses](#) – USA Today
- [Four Tornadoes Confirmed in Eastern Iowa on Saturday Night](#) – KMCH (IA)
- [Tornado damages homes, uproots trees in northern Illinois](#) – WGN-TV (IL)

Snow



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

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

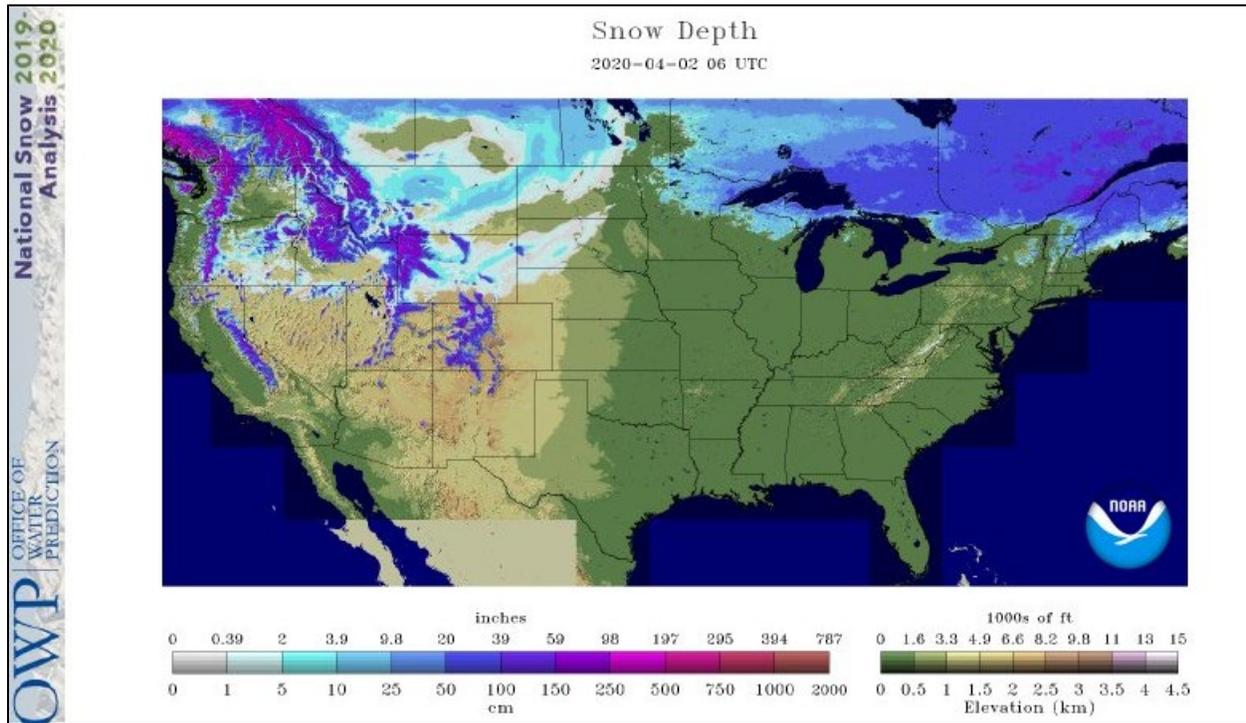


[Alaska snow water equivalent percent of median map](#)

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

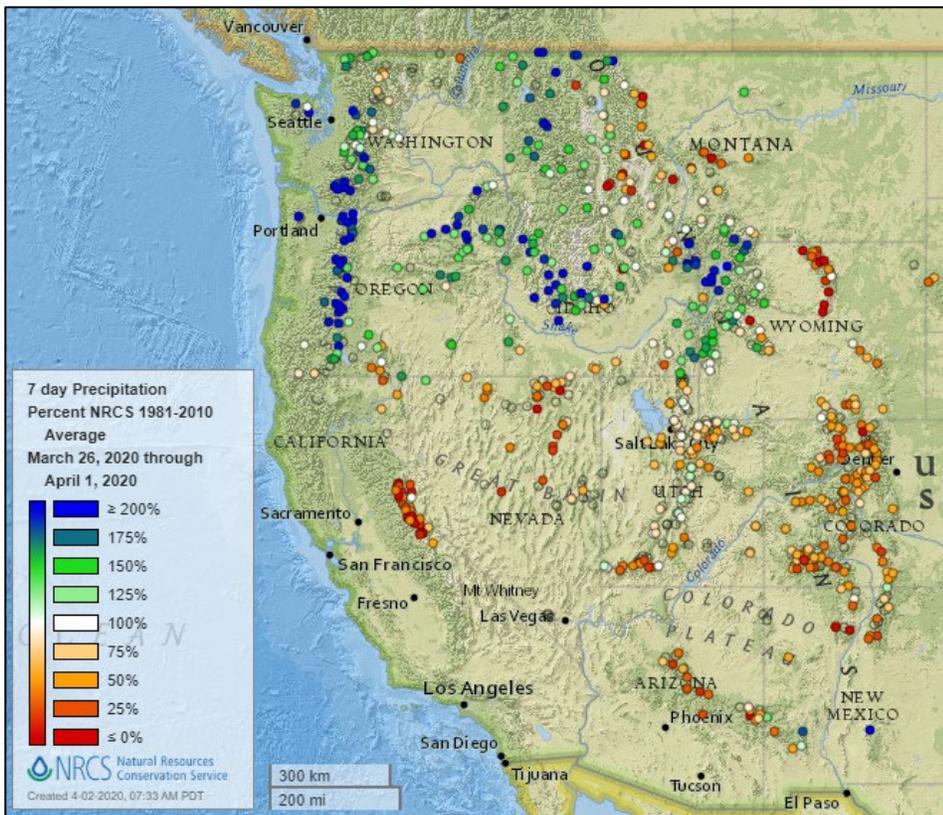
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA Office of Water Prediction



Precipitation

Last 7 Days, NRCS SNOTEL Network

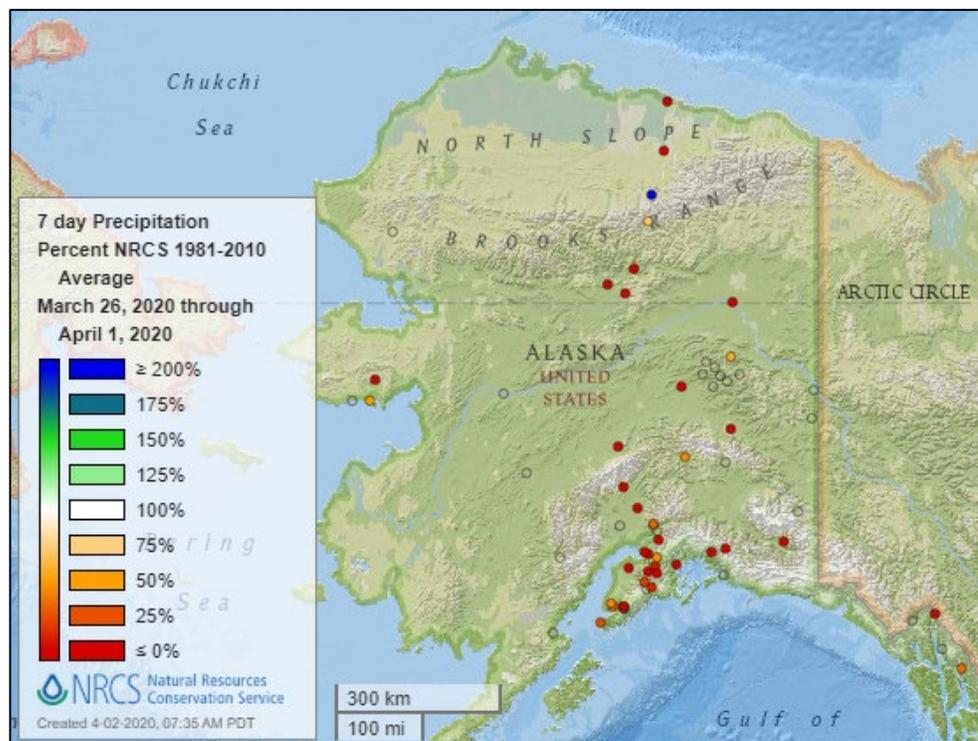


[7-day precipitation percent of average map](#)

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](#)



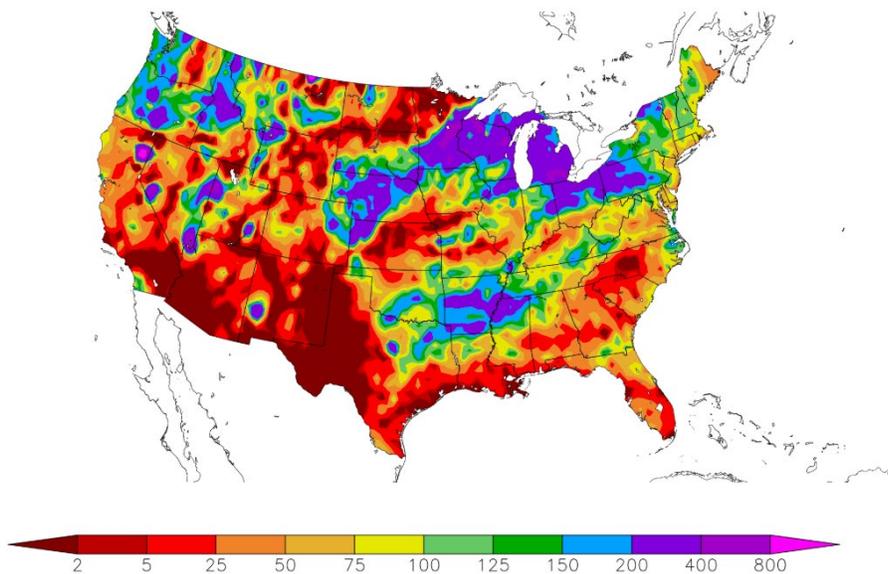
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
3/26/2020 – 4/1/2020



Generated 4/2/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

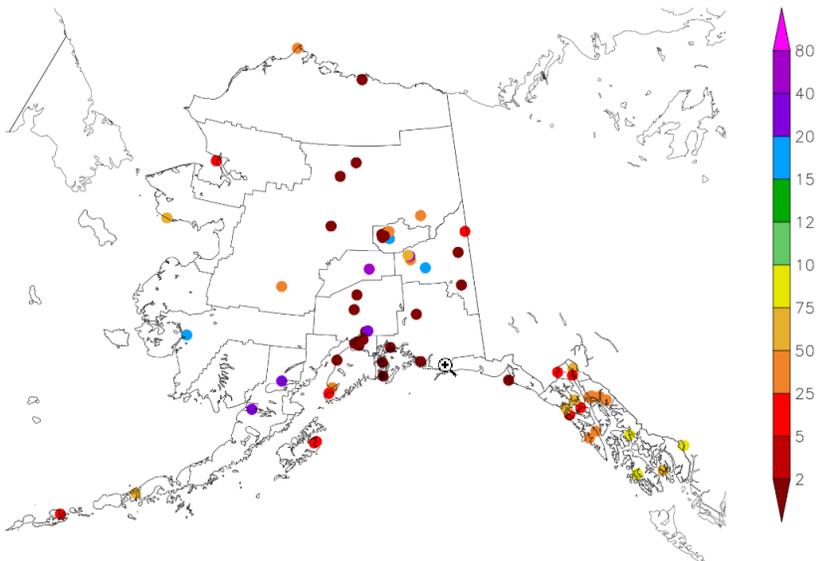
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
3/26/2020 – 4/1/2020



Generated 4/2/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

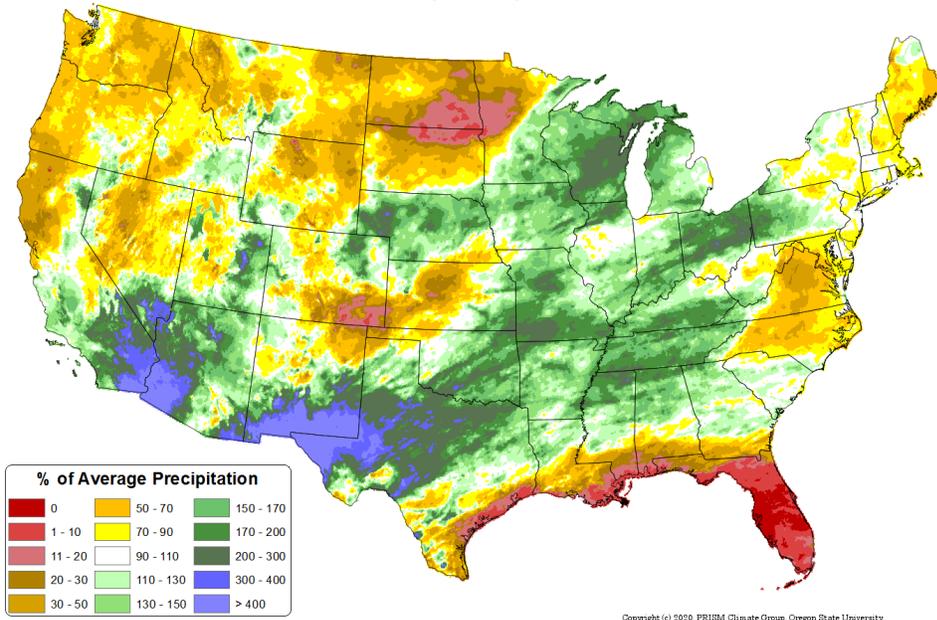
Water and Climate Update

Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

Total Precipitation Anomaly: Mar 2020
Period ending 31 Mar 2020
Base period: 1981-2010
(Map created 02 Apr 2020)

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

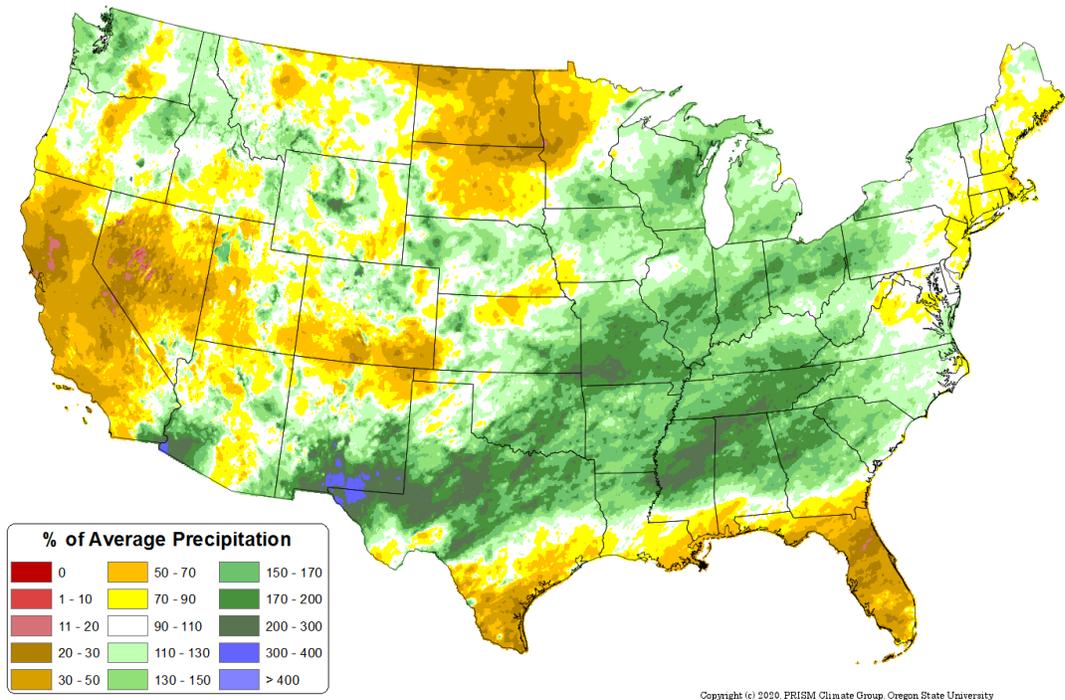


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

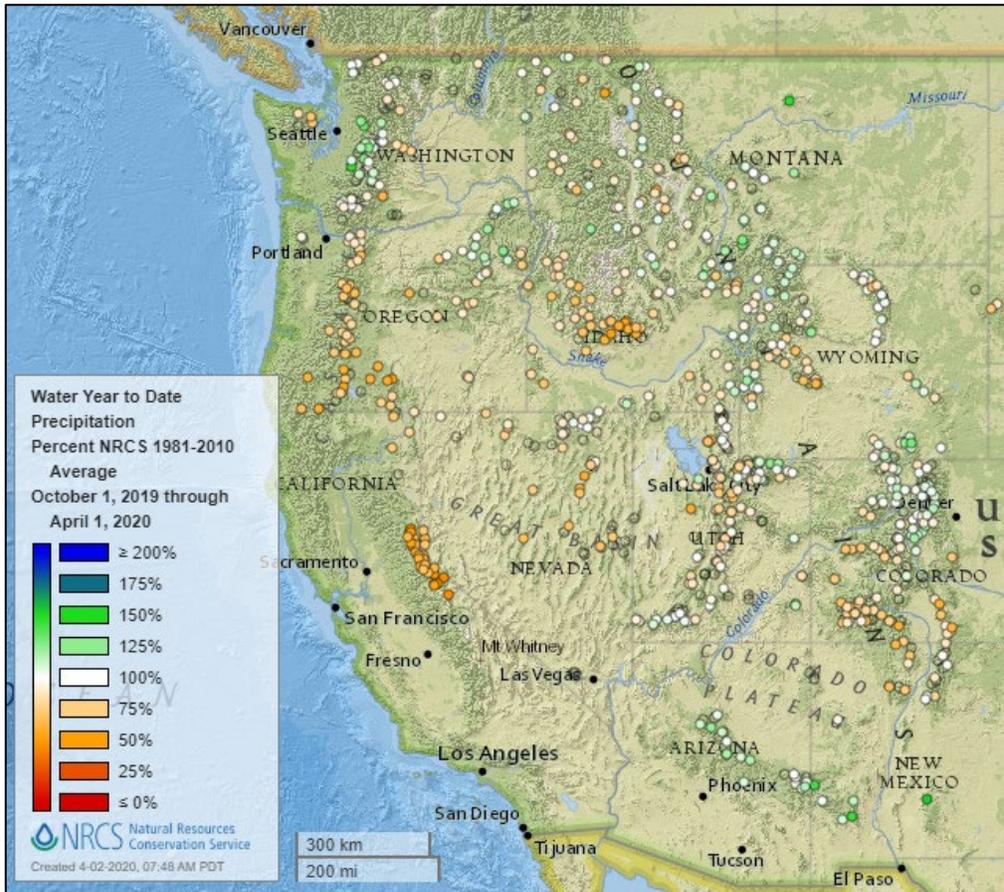
Source: PRISM

[January through March 2020 total precipitation percent of average map](#)

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

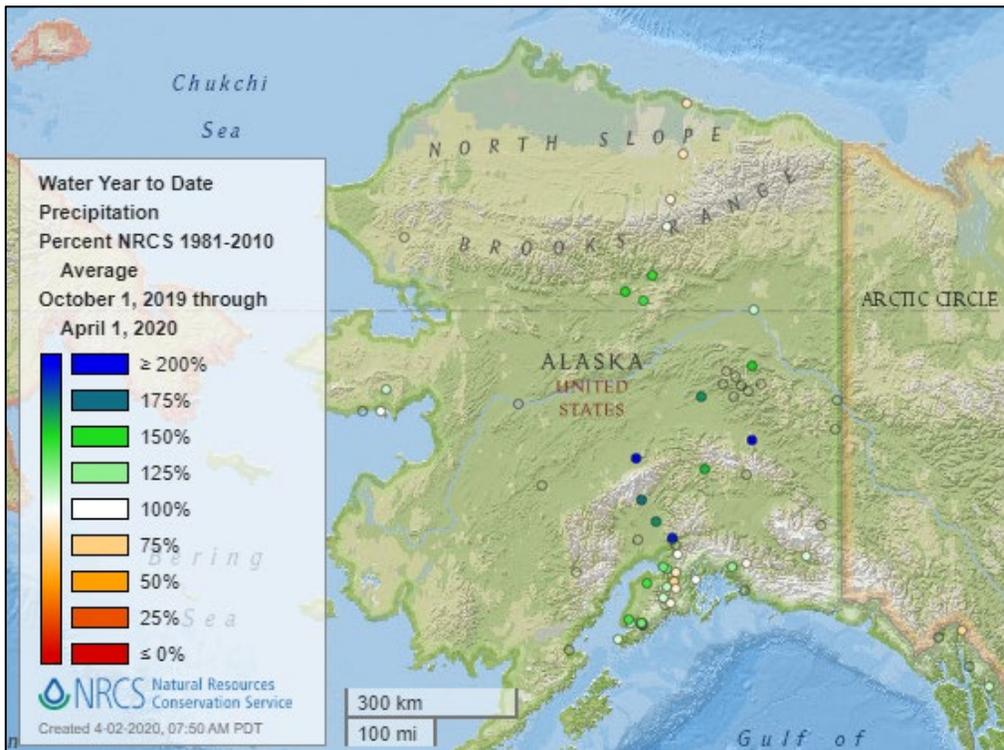


Water Year-to-Date, NRCS SNOTEL Network



[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

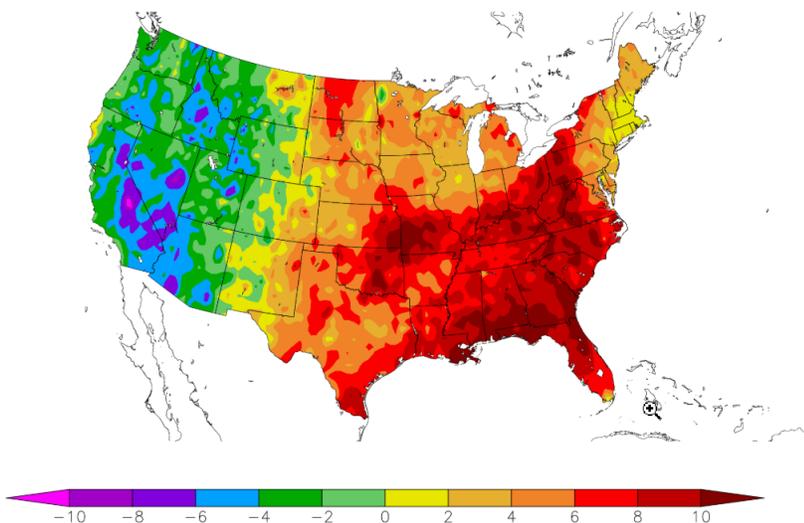
Last 7 Days, National Weather Service (NWS) Networks

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)
3/26/2020 – 4/1/2020



Generated 4/2/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

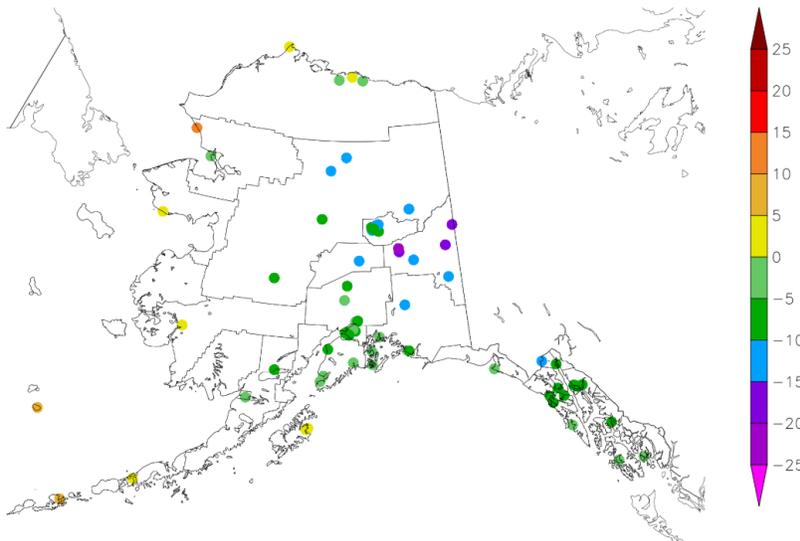
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
3/26/2020 – 4/1/2020



Generated 4/2/2020 at HPRCC using provisional data.

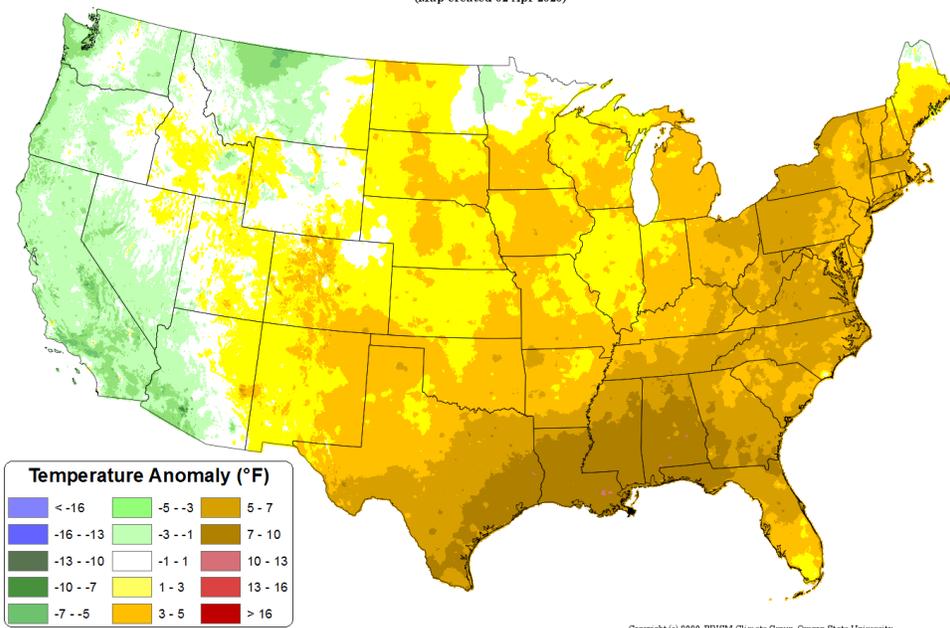
NOAA Regional Climate Centers

Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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

Daily Mean Temperature Anomaly: Mar 2020
Period ending 7 AM EST 31 Mar 2020
Base period: 1961-2010
(Map created 02 Apr 2020)

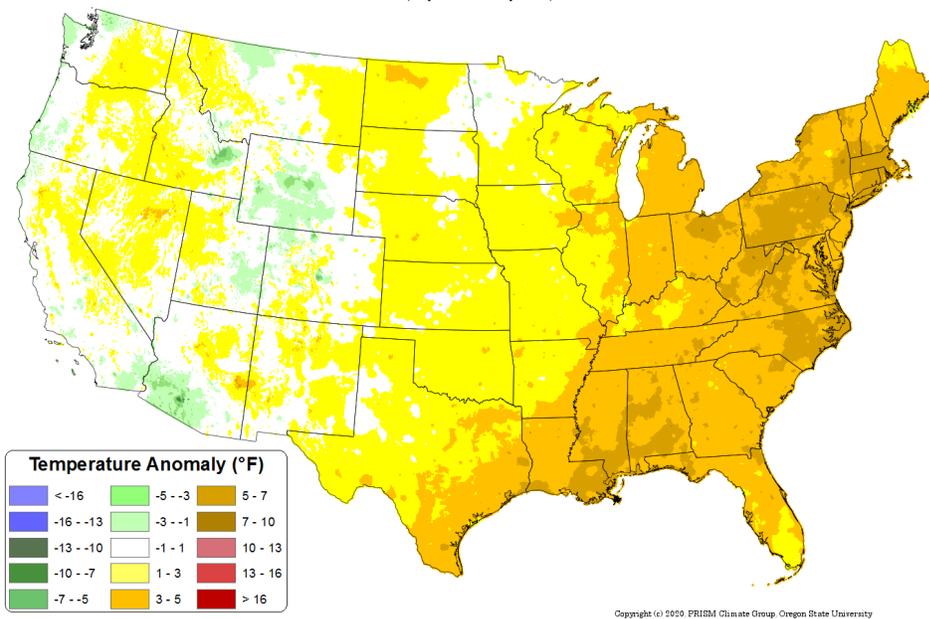


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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

Daily Mean Temperature Anomaly: Jan 2020 - Mar 2020
Period ending 7 AM EST 31 Mar 2020
Base period: 1961-2010
(Map created 02 Apr 2020)



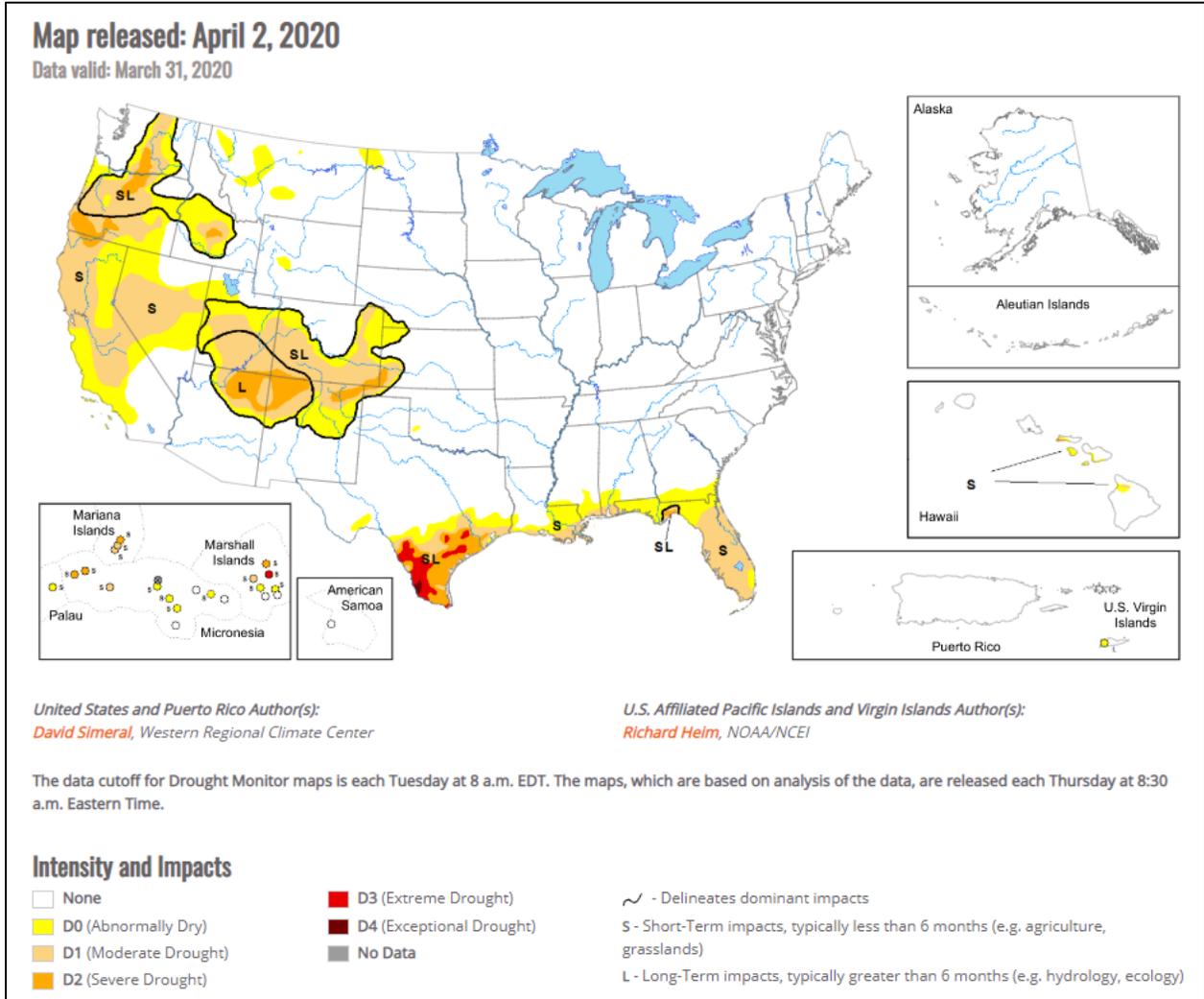
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



[Current National Drought Summary, April 2, 2020](#)

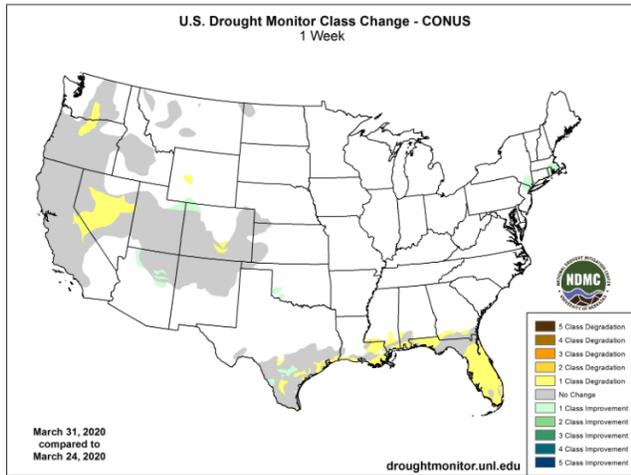
Source: National Drought Mitigation Center

“This U.S. Drought Monitor week saw an active weather pattern impact various parts of the conterminous U.S.—including the western U.S. which continued to experience below-normal temperatures and snow showers in the mountain ranges of the Pacific Northwest (Olympics, Cascades), California (Northern Coast Ranges, Sierra Nevada), and parts of the Intermountain West (Wasatch, central and northern Rockies). In other parts of the Pacific Northwest, including central Oregon and Washington, drought intensified while improvement in drought-related conditions occurred in the Four Corners of northeastern Arizona. Elsewhere, an outbreak of severe weather, including showers and thunderstorms as well as tornadoes, affected parts of the Midwest and South. Along the Gulf Coast, temperatures were well-above normal with numerous single-day high temperature records broken. In Florida, drought conditions expanded across much of the state after another week of unseasonably warm temperatures and continued dryness with numerous cities across the state experiencing record dryness for the month.”

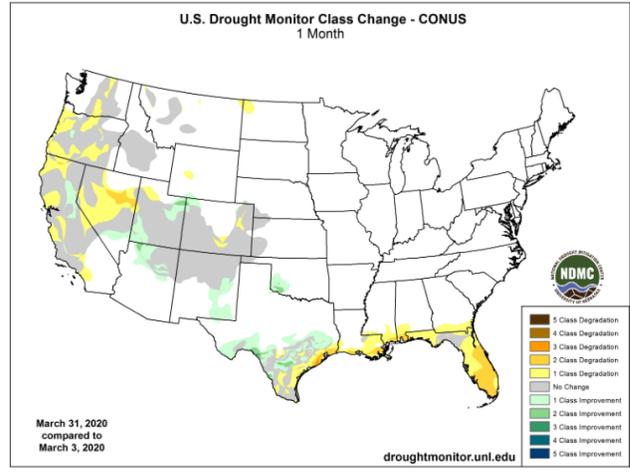
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

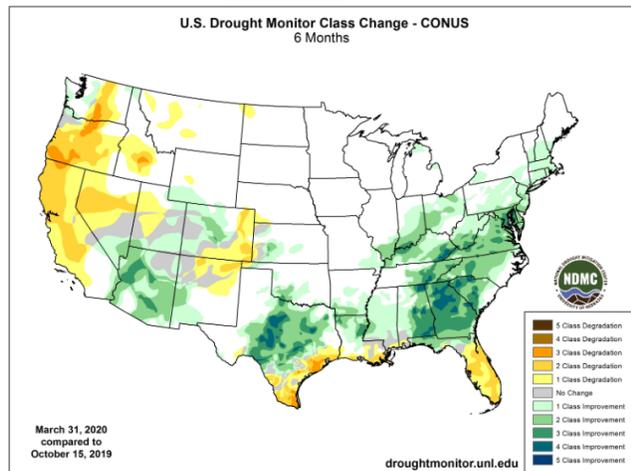
1 Week



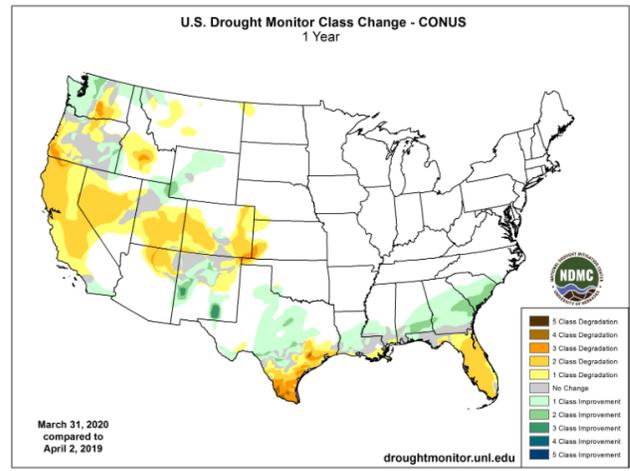
1 Month



6 Months



1 Year



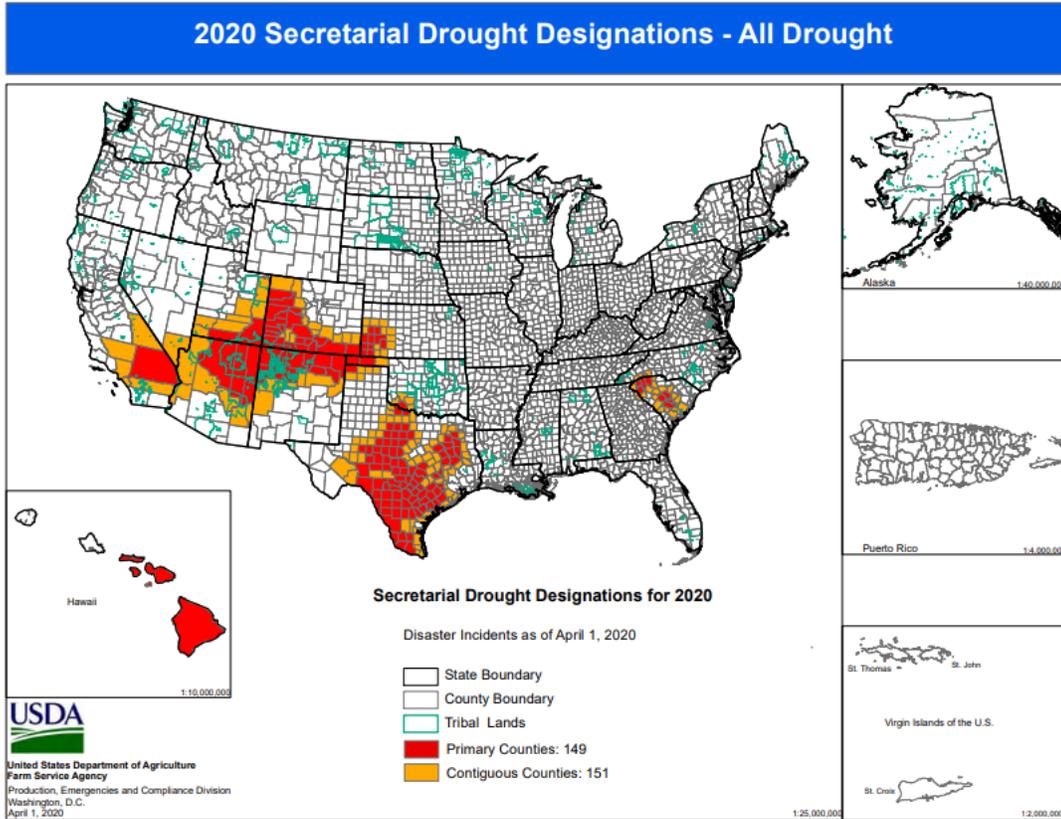
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

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

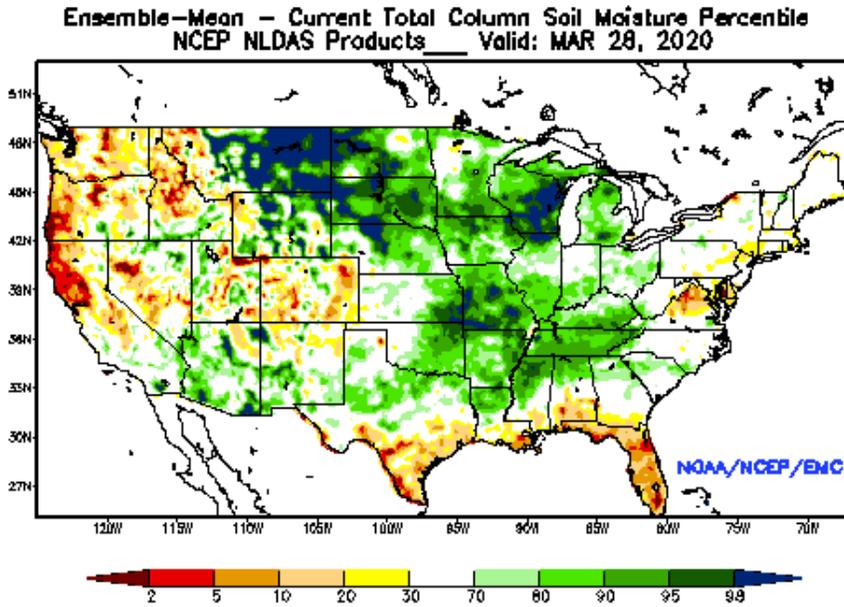
Source: USDA Farm Service Agency



Other Climatic and Water Supply Indicators

Soil Moisture

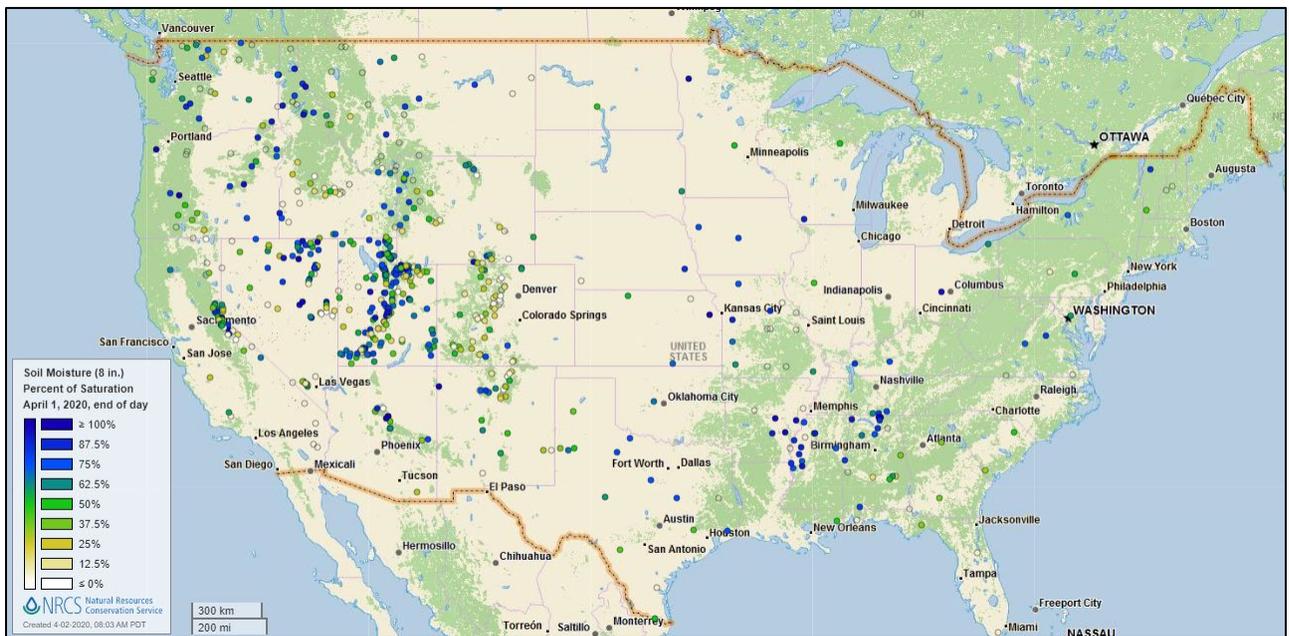
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of March 28, 2020

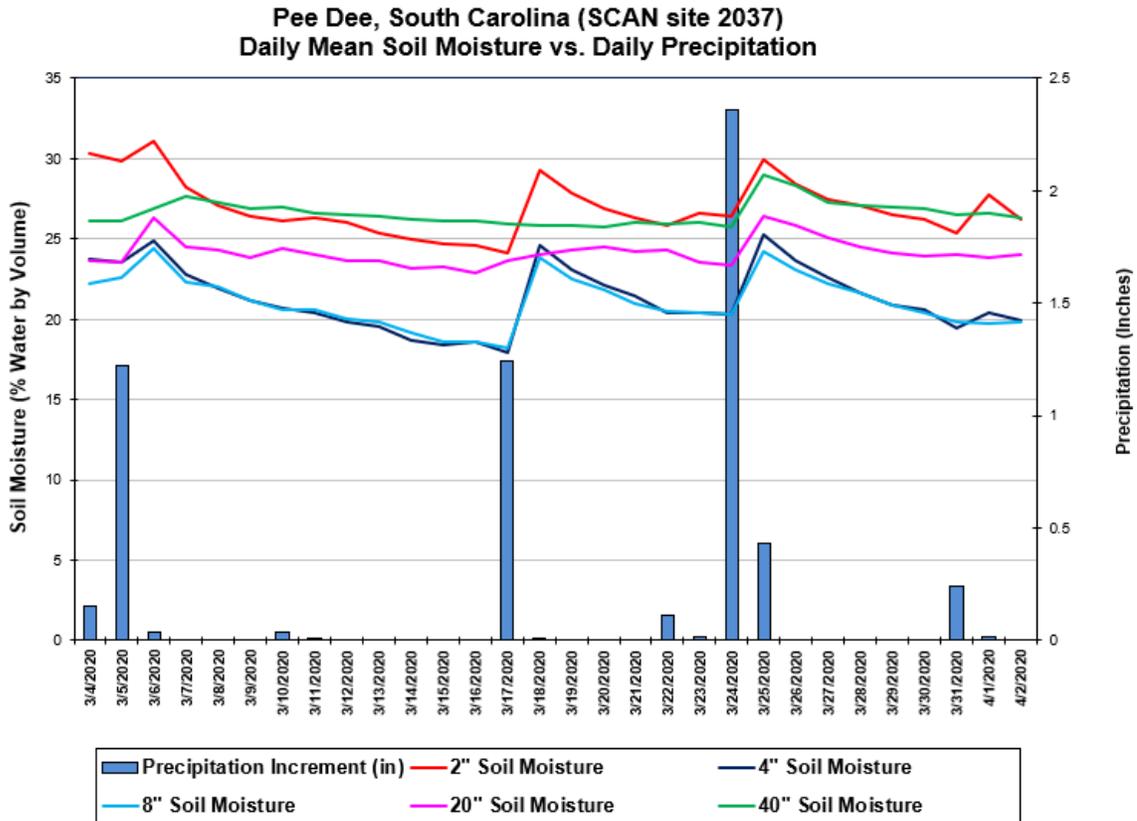
Soil Moisture Percent of Saturation

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 [Pee Dee](#) SCAN site in South Carolina. The three large precipitation events resulted in increased soil moisture at all sensor depths. Accumulated precipitation for the 30-day period totaled 5.89 inches.

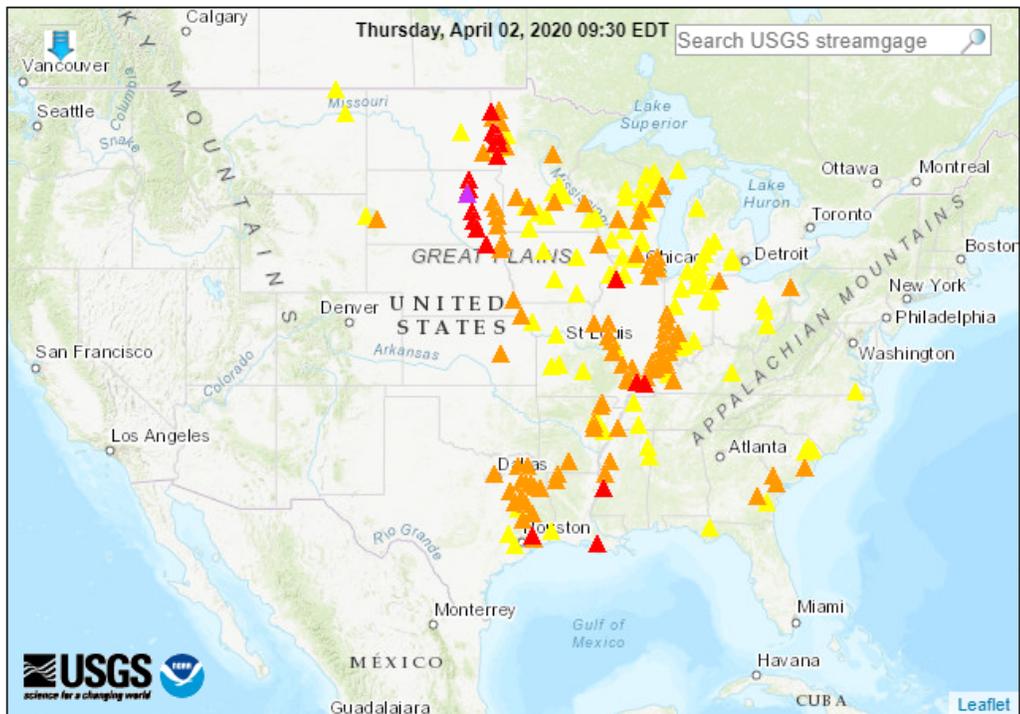
Soil Moisture Data Portals

- [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
 (114 in floods [major: 1, moderate: 19, minor: 94], 88 in near-flood)



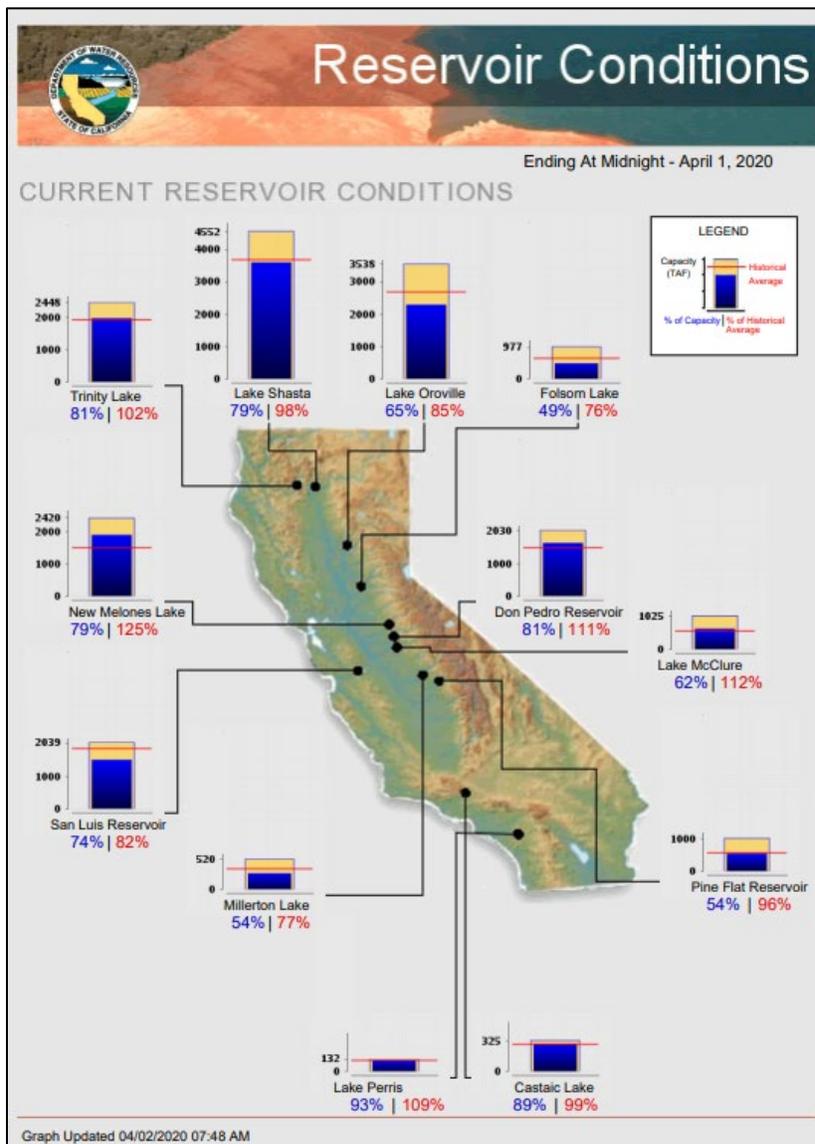
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			△ Streamgage with flood stage	○ Streamgage without flood stage		

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

Reservoir Storage

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

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](#)

Short- and Long-Range Outlooks

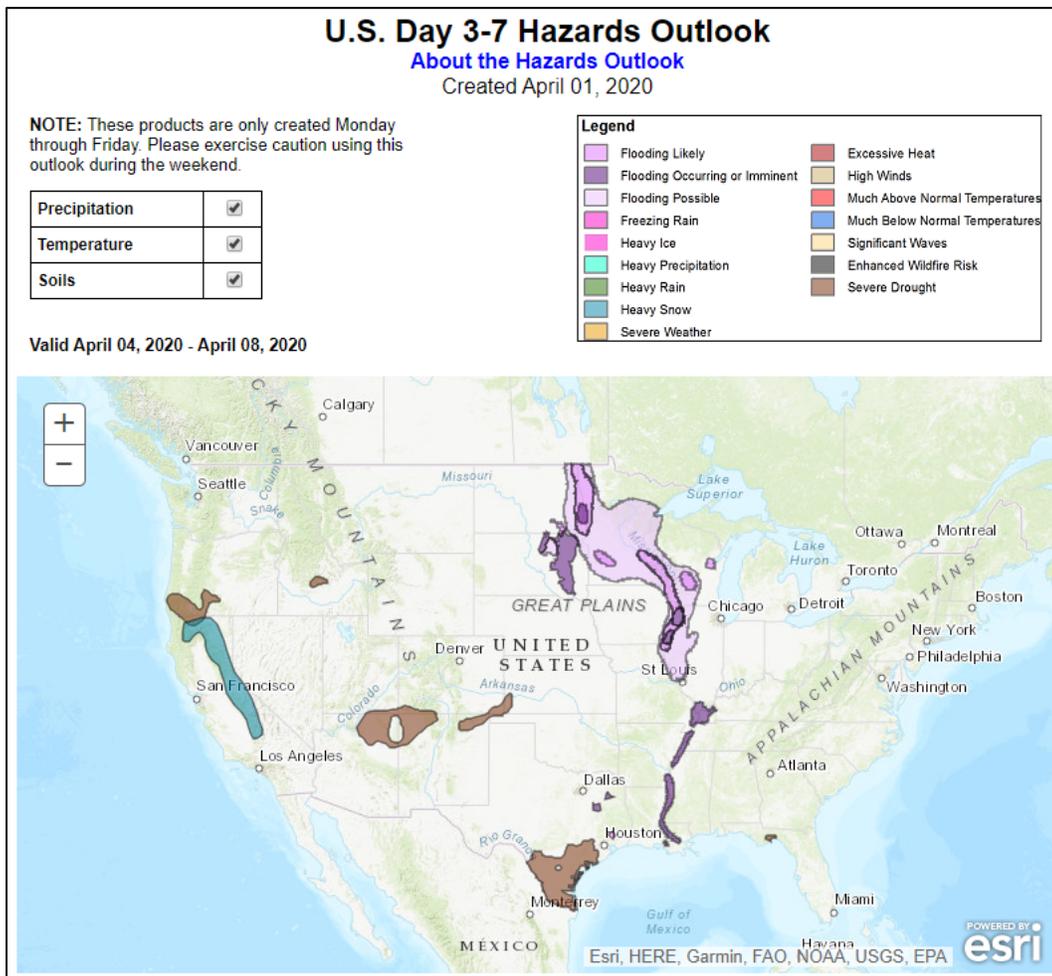
Agricultural Weather Highlights

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

National Outlook, Thursday, April 2, 2020: “A slow-moving storm system over the north-central U.S. will result in a variety of weather hazards during the next 2 days. The primary threat will be wind-driven wintry precipitation, including snow and freezing rain, which will lead to travel disruptions and increased livestock stress across the northern half of the Plains and the upper Midwest. Once snow from the storm begins to melt, enhanced runoff could aggravate an already serious spring flood situation from the eastern Dakotas into the upper Mississippi Valley. Farther south, storm-total rainfall of 1 to 3 inches or more in the western and central Gulf Coast regions may provide drought relief. In the storm’s wake, freezes will occur on Saturday morning as far south as the northern panhandle of Texas. Elsewhere, an Atlantic storm will produce wind and rain in New England into Friday, while a Pacific storm system will result in a significant, late-season precipitation event in California and portions of neighboring states, starting on Saturday. The NWS 6- to 10-day outlook for April 7 – 11 calls for the likelihood of above-normal temperatures in most areas from the Plains to the East Coast, while cooler-than-normal conditions will prevail in the West. Meanwhile, below normal precipitation in parts of the Pacific Northwest and across Florida’s peninsula should contrast with wetter-than-normal weather across the remainder of the country.”

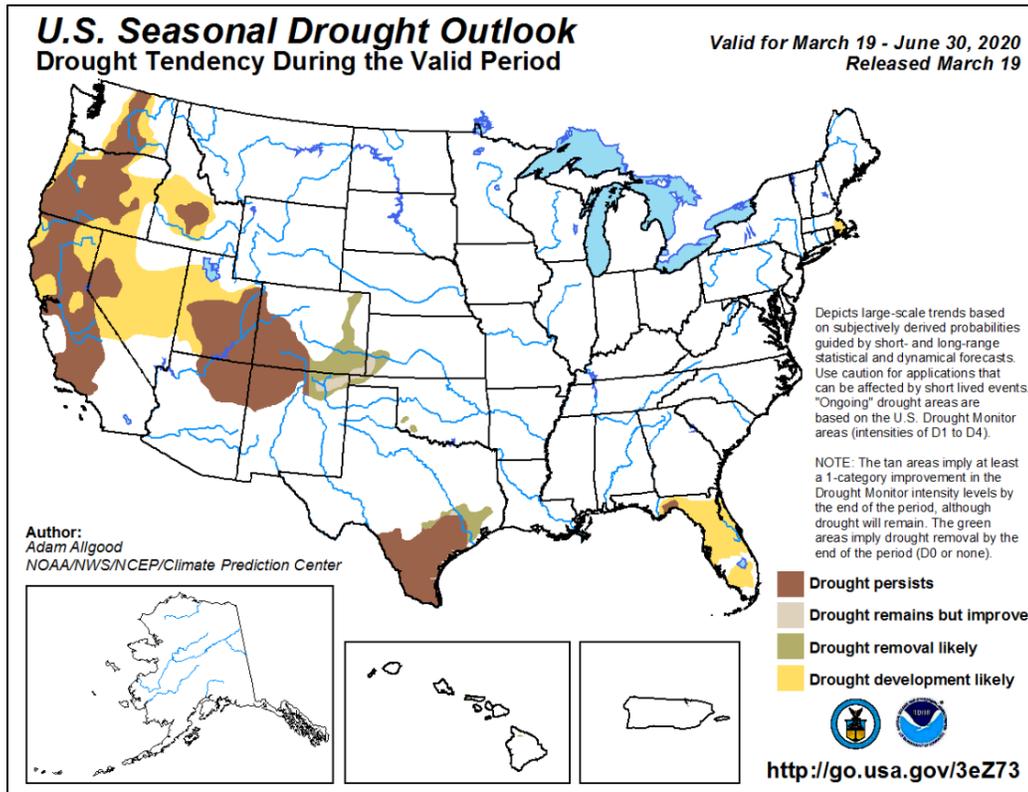
Weather Hazards Outlook: April 4 – 8, 2020

Source: NOAA Weather Prediction Center



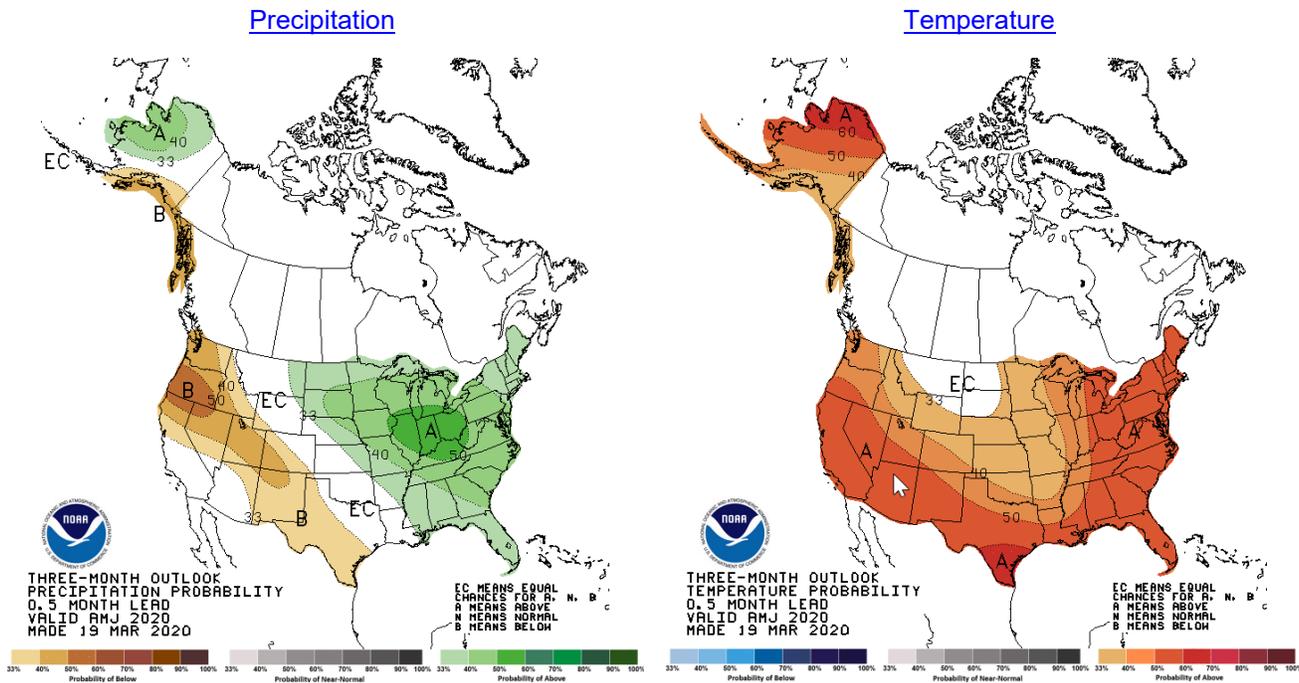
Seasonal Drought Outlook: [March 19 – June 30, 2020](#)

Source: National Weather Service



Climate Prediction Center 3-Month Outlook

Source: National Weather Service



[April-May-June \(AMJ\) 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](#).