

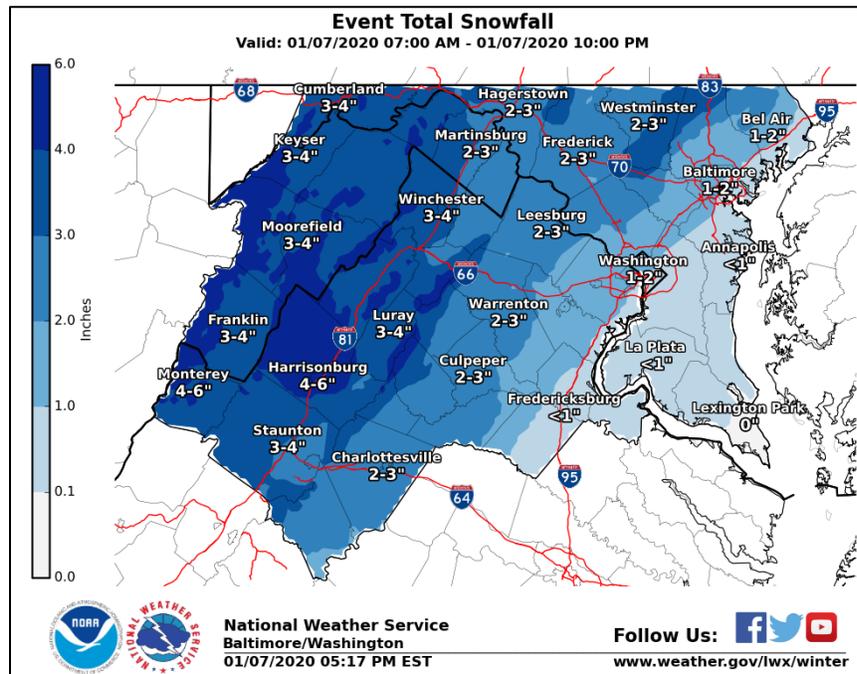
Water and Climate Update

January 9, 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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First 2020 snowfall in the Mid-Atlantic region

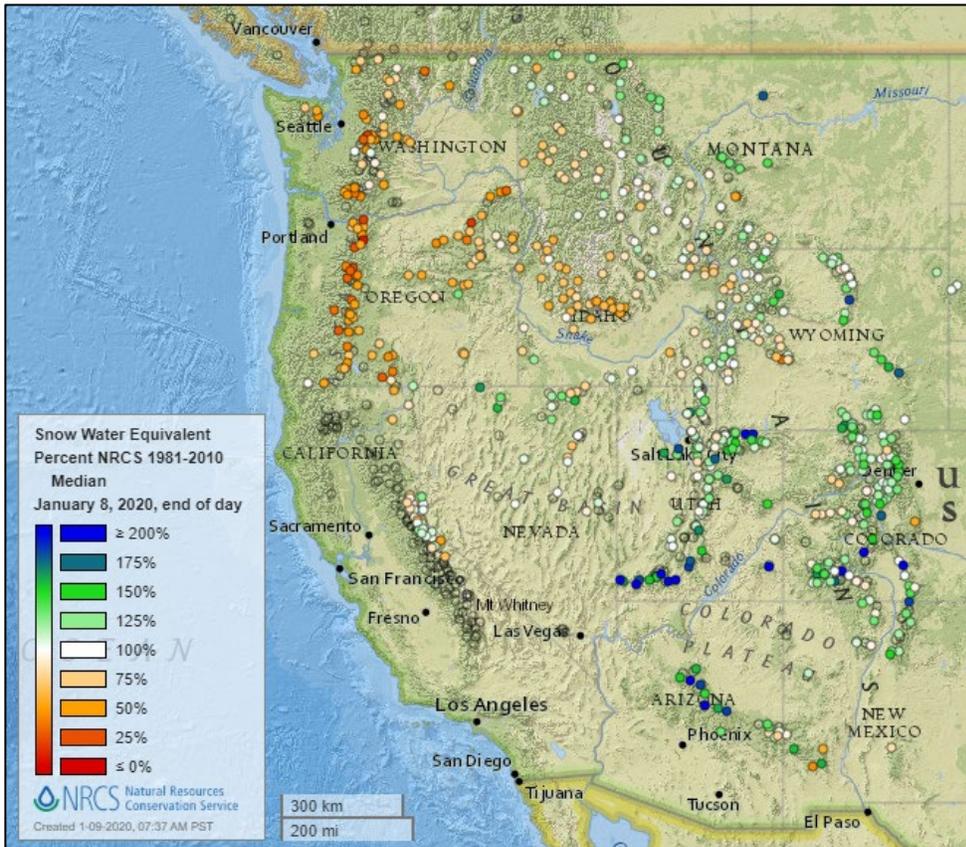


The first snowfall of the new year hit the Mid-Atlantic states on Tuesday. A winter weather advisory in the Washington D.C. area had businesses, government offices, and schools close early Tuesday afternoon. Power outages and traffic delays were also reported. Storm totals ranged from a coating of ice to several inches of snow. Additional snow squalls continued to impact travel in the area Wednesday.

Related:

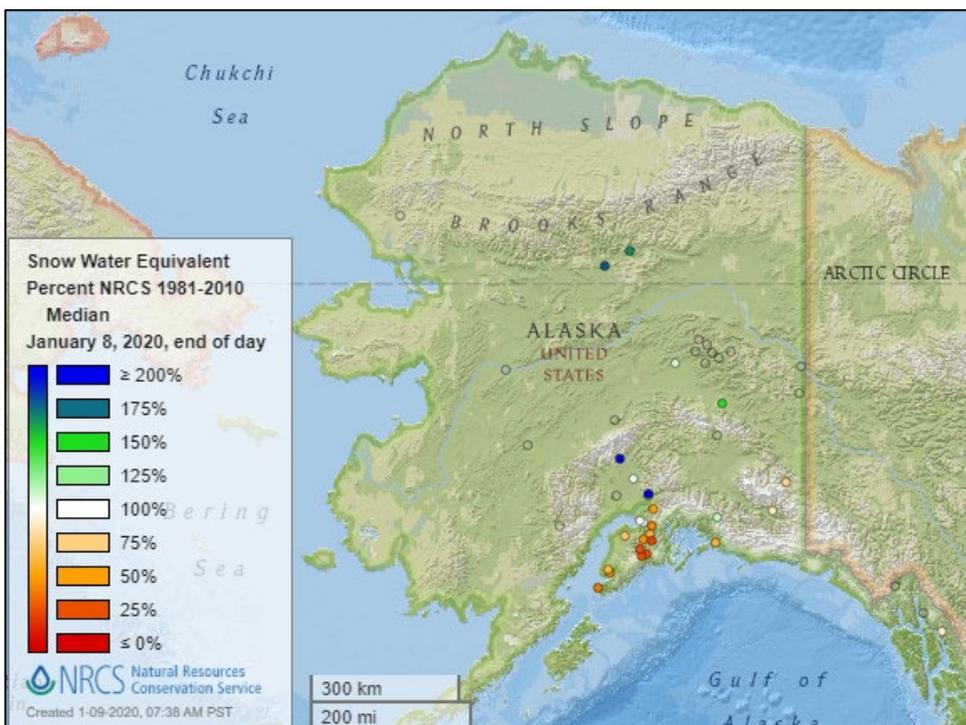
- [40 MPH Winds, Freezing Rain, Snow Squalls And Frigid Temperatures In CNY](#) - WIBX (NY)
- [Winter Storm Forces Federal Government to Close Early](#) – US News & World report
- [Winter weather advisory issued for Cape and Islands overnight Tuesday; 2 to 4 inches of snowfall likely](#) – MassLive (MA)
- [Maryland weather: Burst of heavy snow forecast Tuesday afternoon, prompting schools to close early](#) – The Baltimore Sun (MD)
- [Winter storm to encase 1,700-mile stretch of US in ice, snow](#) – 11Alive (GA)
- [First snow of 2020 drops a coating to a few inches in D.C. region](#) – Washington Post

Snow



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

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

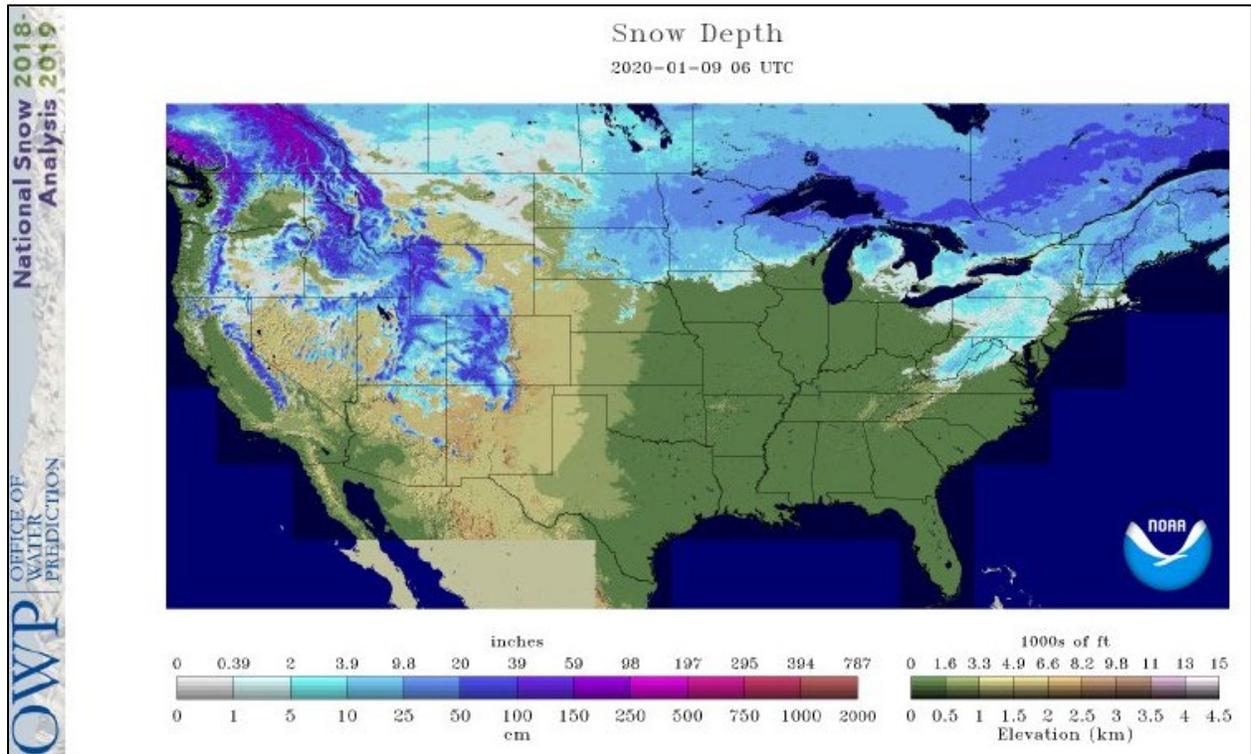


[Alaska snow water equivalent percent of median map](#)

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

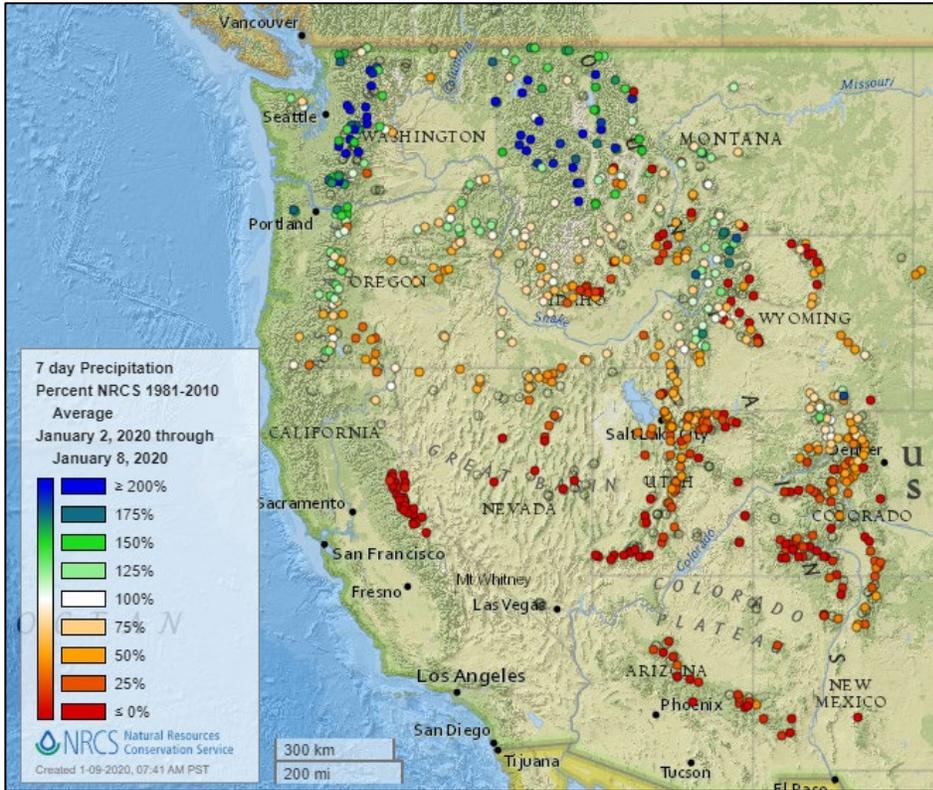
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA Office of Water Prediction



Precipitation

Last 7 Days, NRCS SNOTEL Network

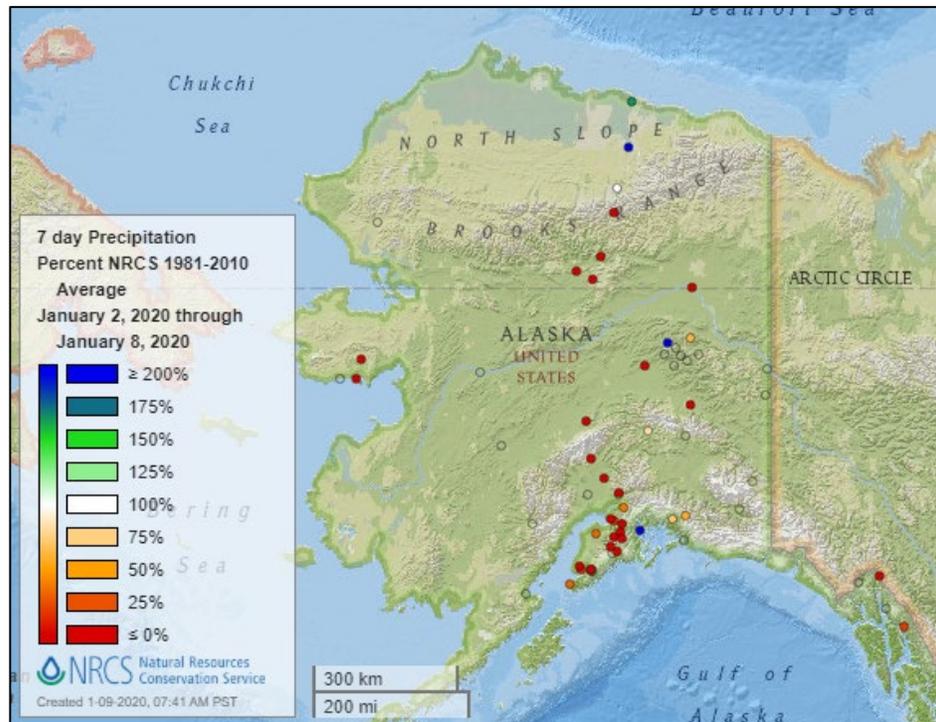


[7-day precipitation percent of average map](#)

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](#)



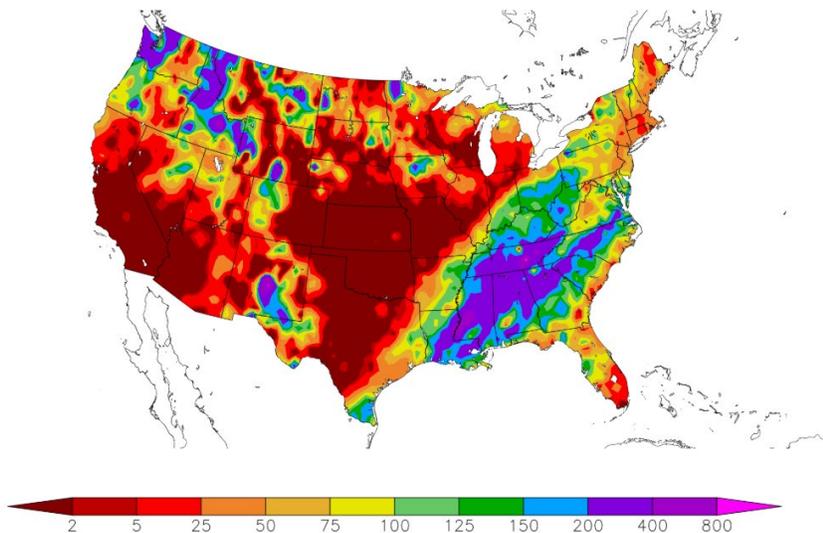
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
1/1/2020 – 1/7/2020



Generated 1/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

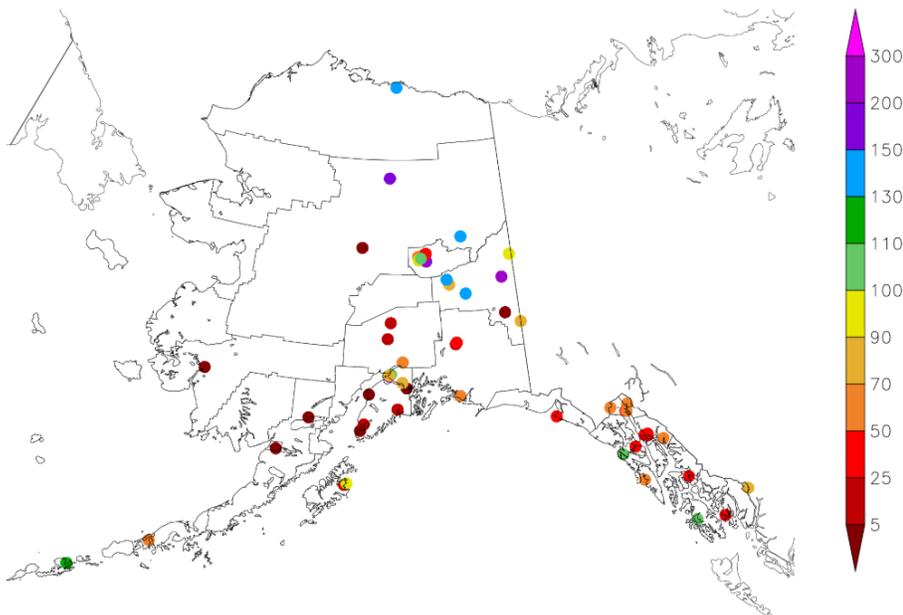
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
1/1/2020 – 1/7/2020



Generated 1/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

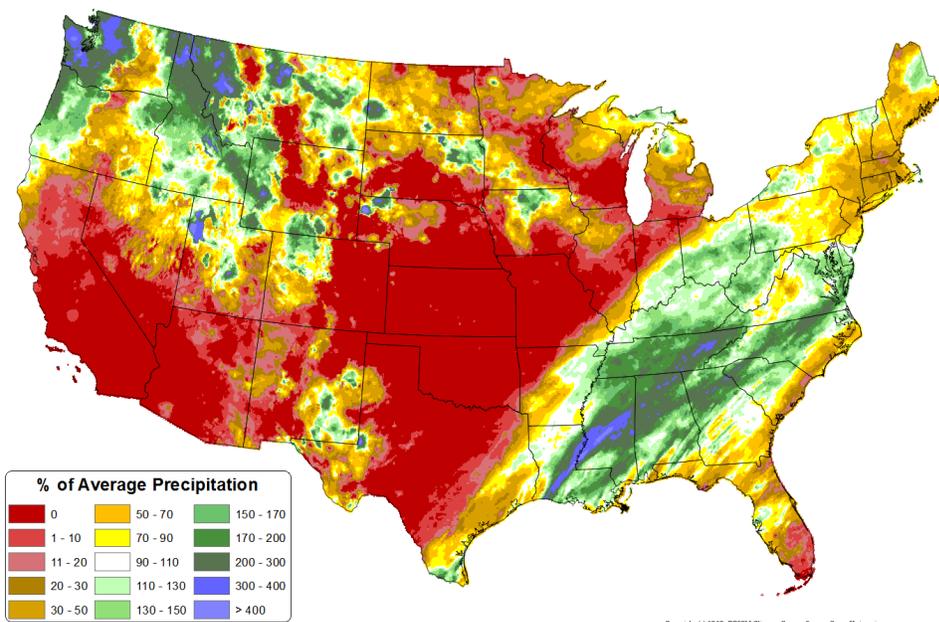
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Jan 2020 - 08 Jan 2020
Period ending 7 AM EST 08 Jan 2020
Base period: 1981-2010
(Map created 09 Jan 2020)

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

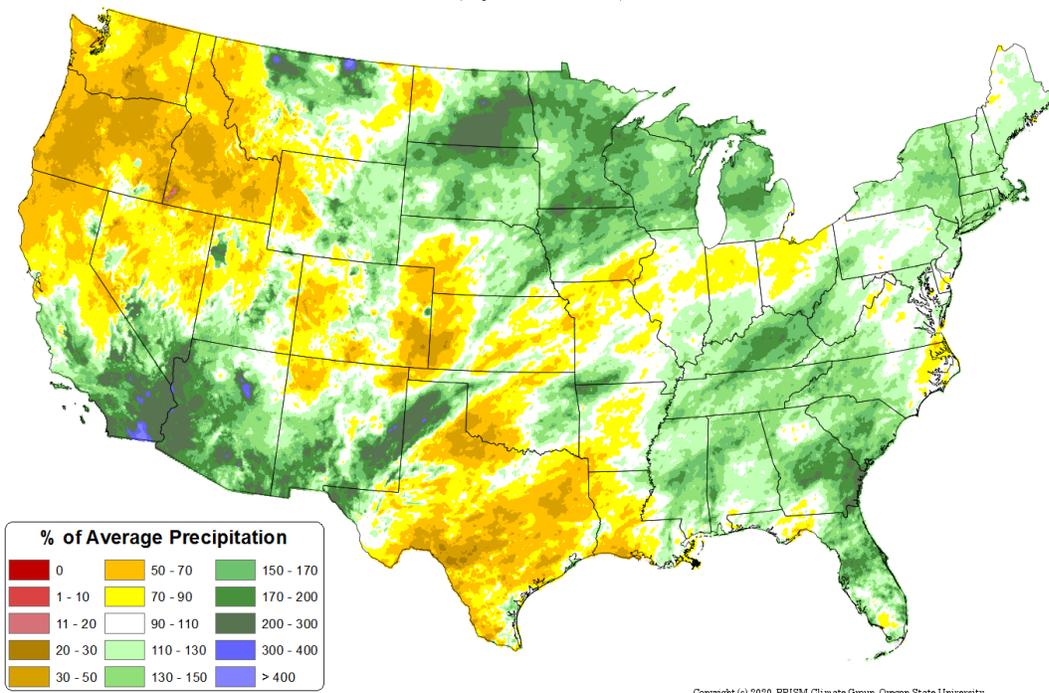


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

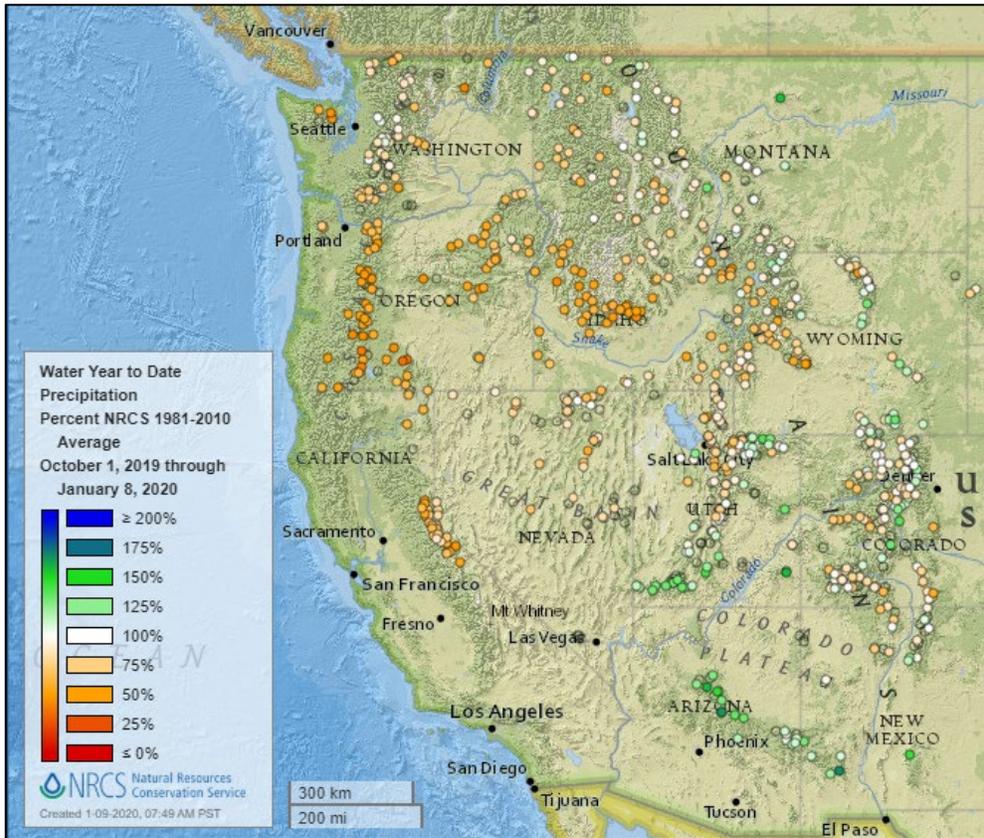
Source: PRISM

[October through December 2019 total precipitation percent of average map](#)

Total Precipitation Anomaly: Oct 2019 - Dec 2019
Period ending 7 AM EST 31 Dec 2019
Base period: 1981-2010
(Map created 06 Jan 2020)

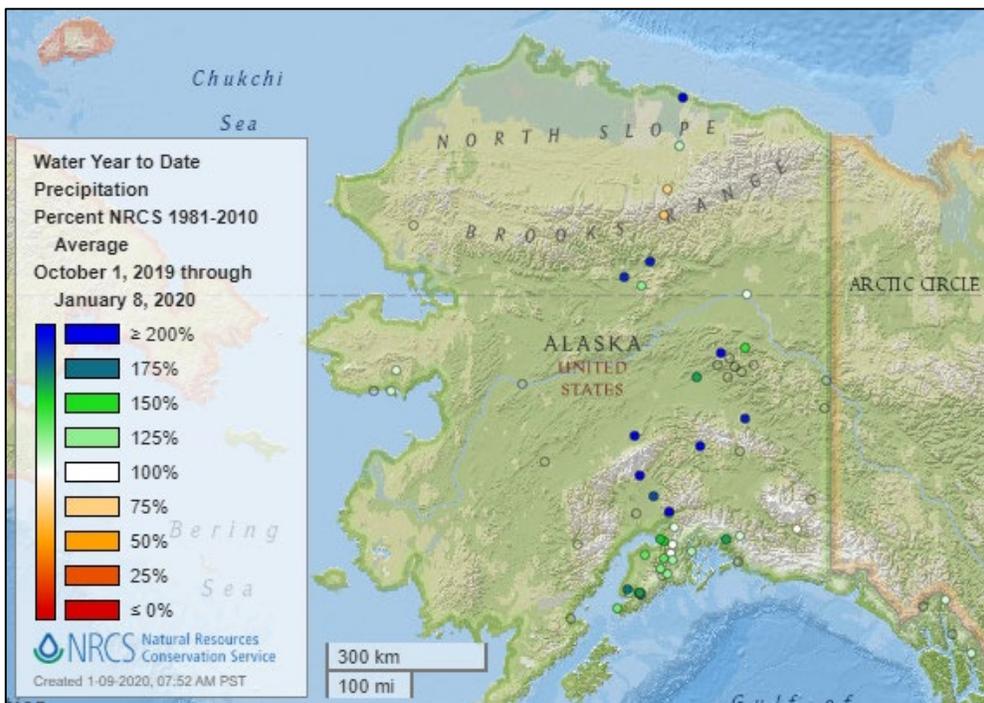


Water Year-to-Date, NRCS SNOTEL Network



[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

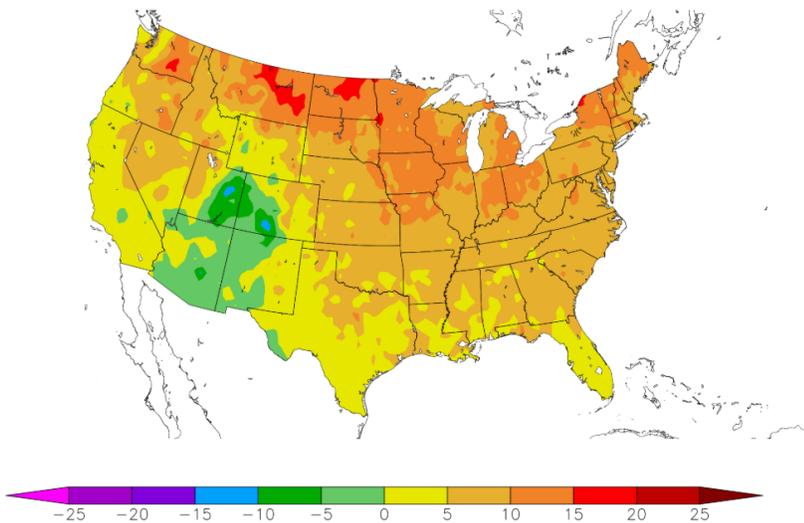
Last 7 Days, National Weather Service (NWS) Networks

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)
1/1/2020 – 1/7/2020



Generated 1/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

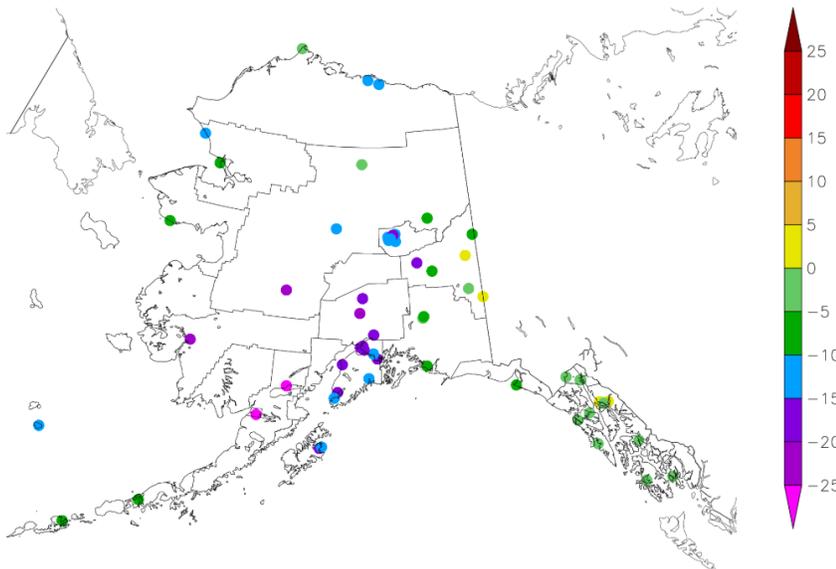
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
1/1/2020 – 1/7/2020



Generated 1/8/2020 at HPRCC using provisional data.

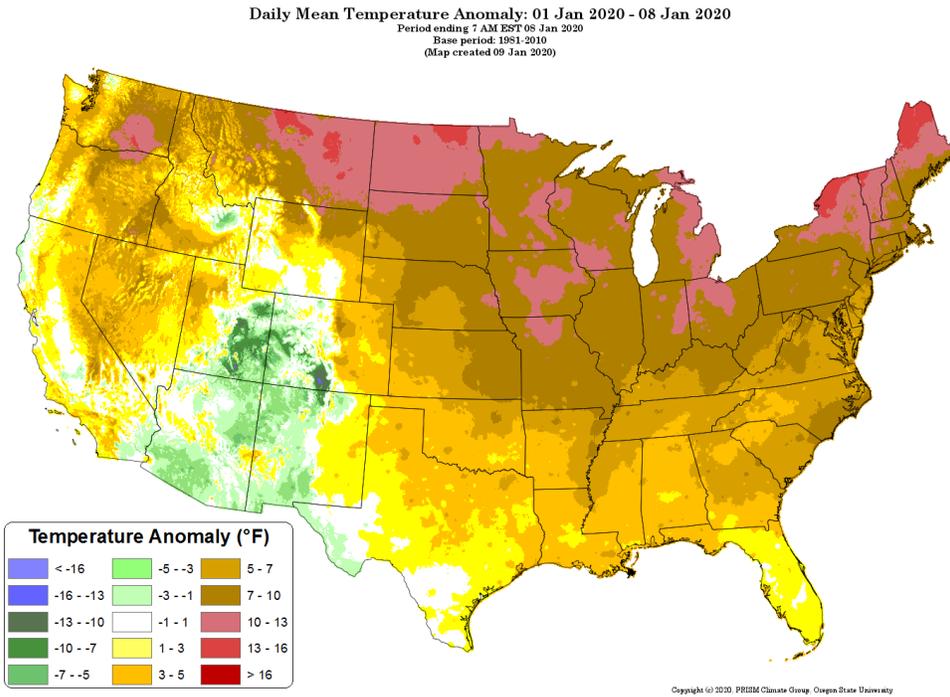
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

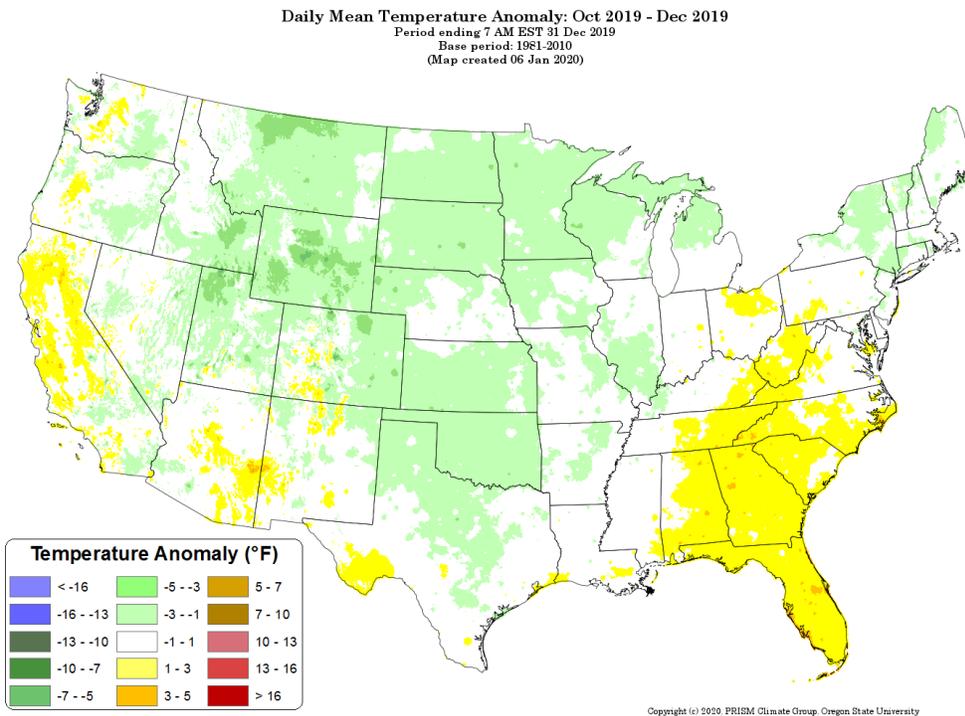
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[October through December 2019 daily mean temperature anomaly map](#)



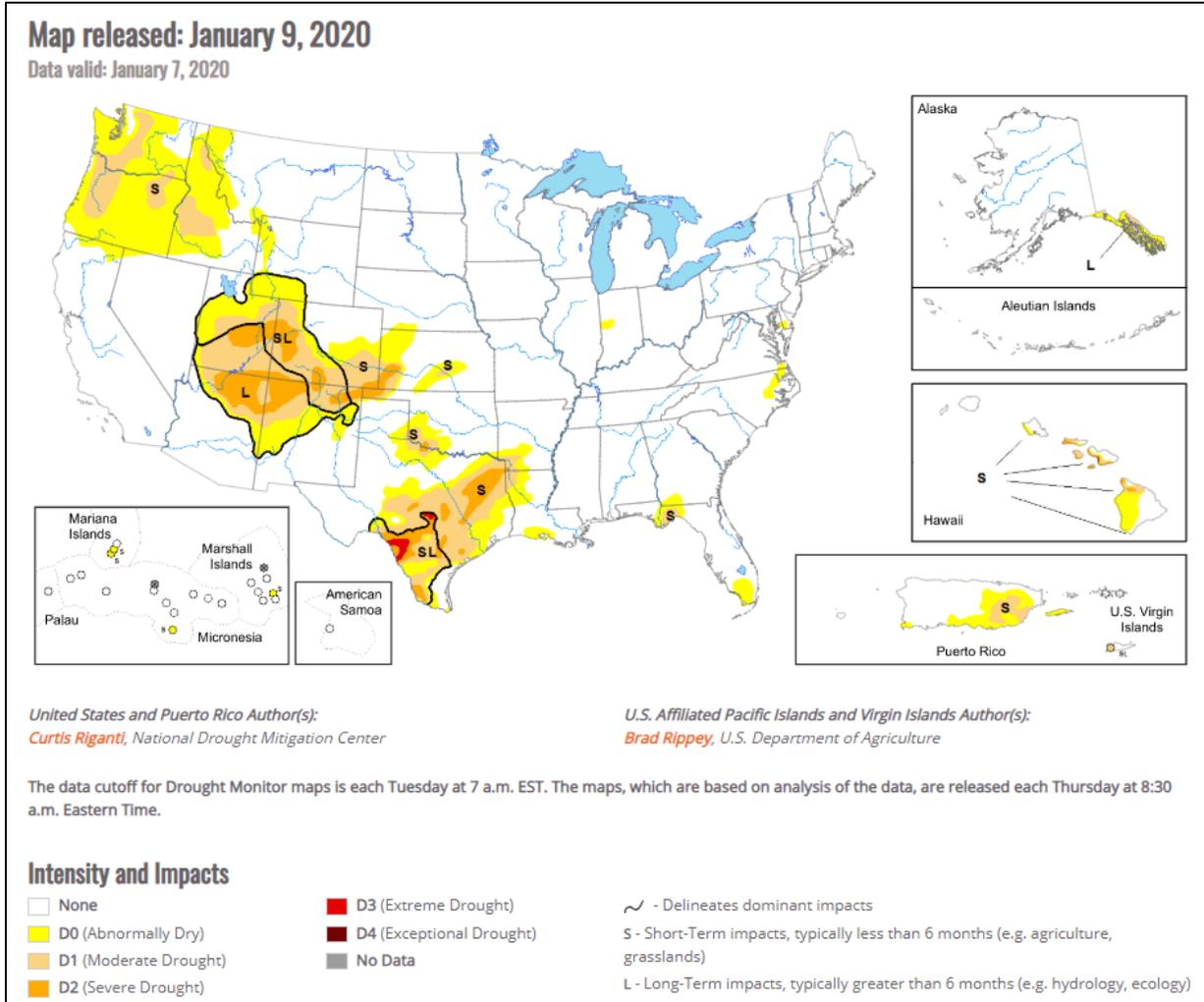
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), January 9, 2020

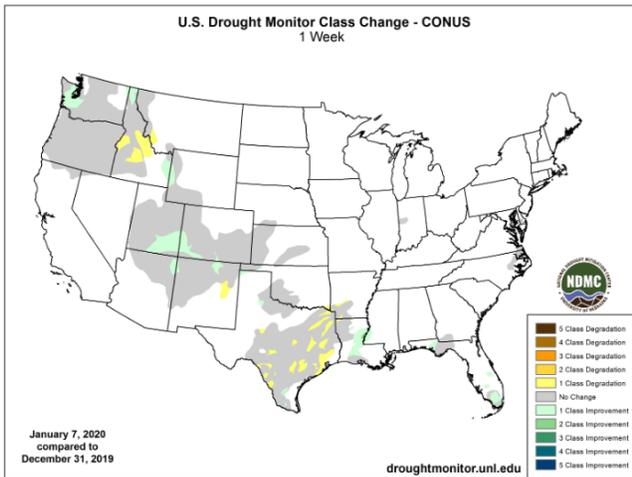
Source: National Drought Mitigation Center

“Over the past week, primarily light to moderate precipitation fell from east Texas northeast through New England. Heavier precipitation amounts of 2 to 6 inches were embedded within the larger precipitation swath, affecting areas from southwest Louisiana to the southern Appalachian Mountains. Heavy precipitation amounts, including mountain snow, fell in the Pacific Northwest and in the central and northern Rocky Mountains. Warmer than normal temperatures also covered most of the continental U.S., with the warmest conditions (compared to normal) taking place in the northern states. In the West, many areas that received significant mountain snow in the past few weeks saw an improvement in drought conditions, while areas that missed out on the snow or still had significant precipitation deficits did not see improvements to their drought depiction. Improvements or degradations in conditions east of the Rocky Mountains were primarily in response to significant precipitation occurring, or lack thereof, over the past several weeks. Degradations made in parts of central and southern Texas also occurred due to high evaporative demand and the associated negative impacts on soil moisture.”

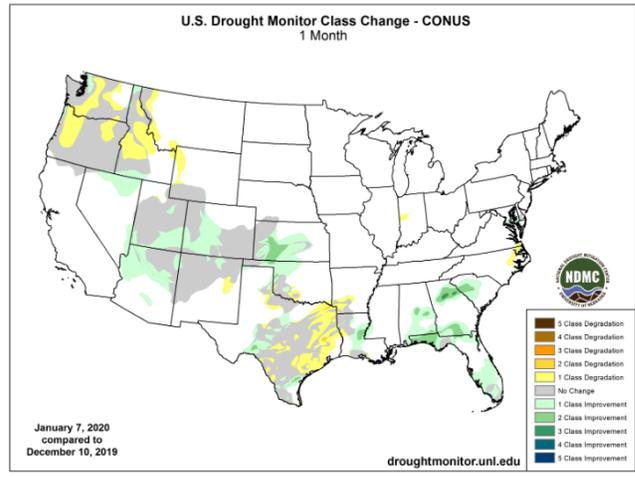
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

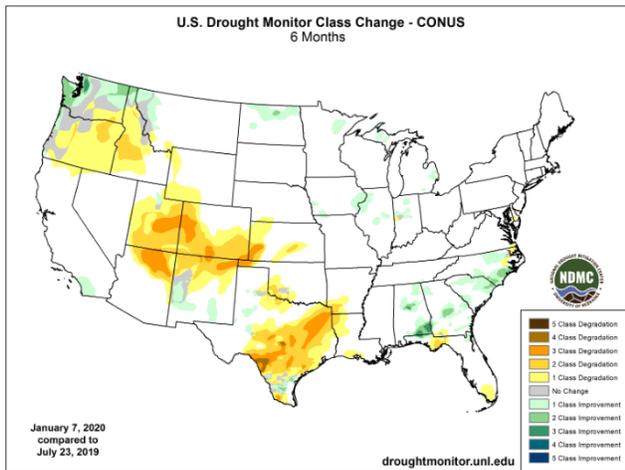
1 Week



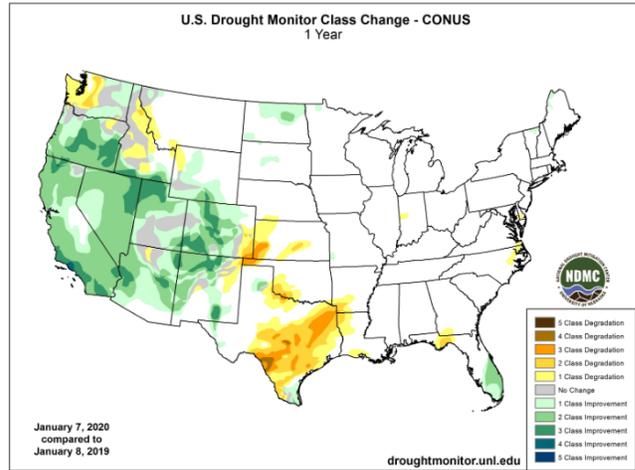
1 Month



6 Months



1 Year



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

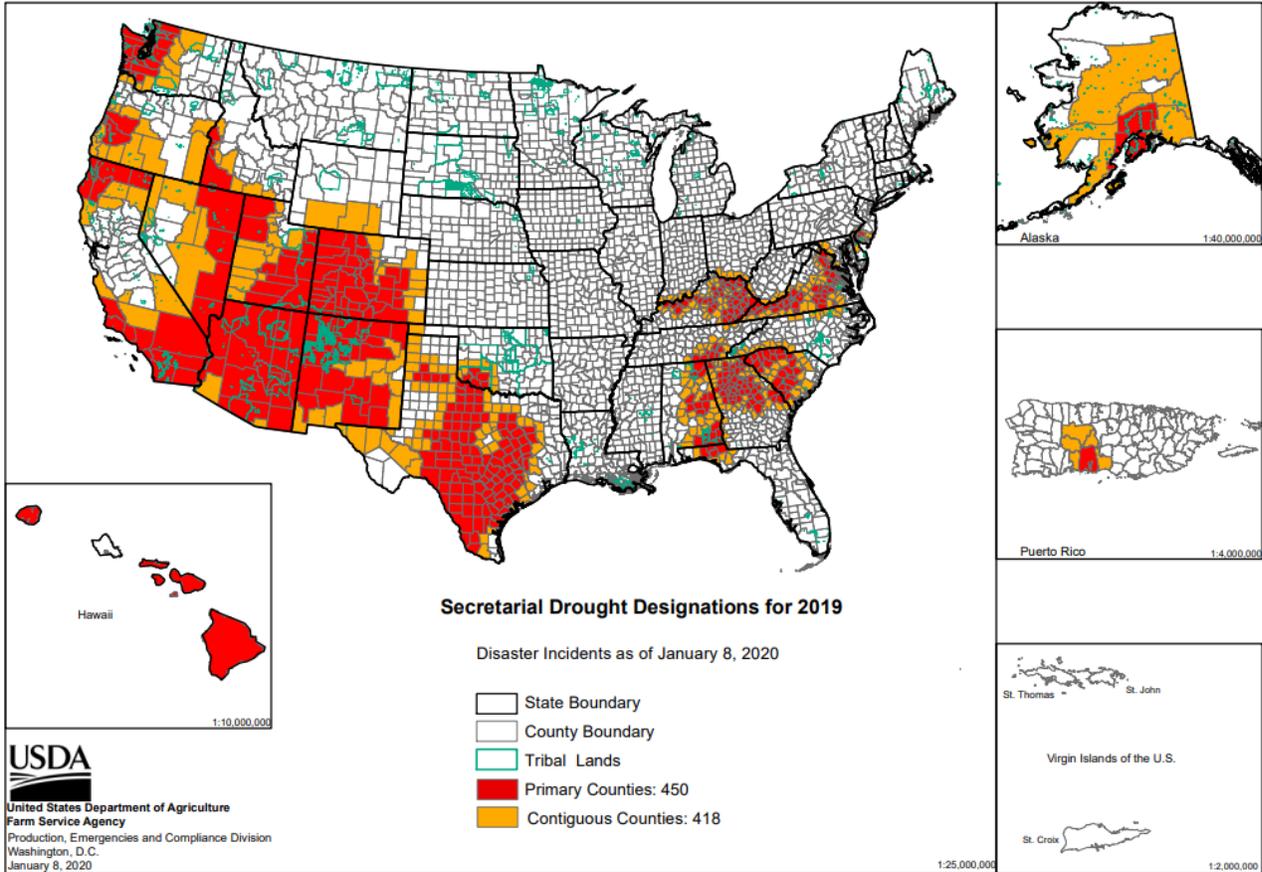
Highlighted Drought Resources

- [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

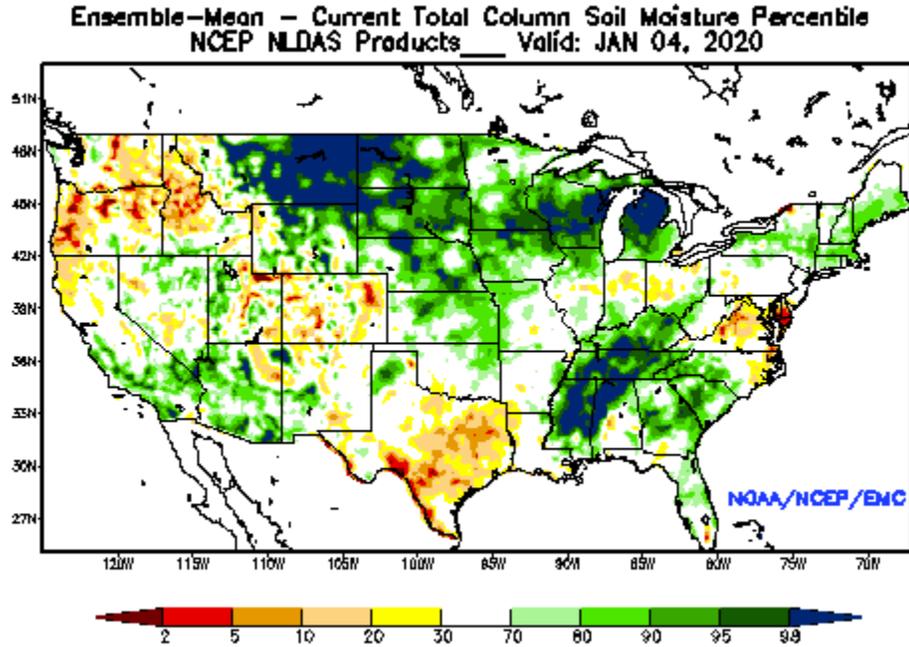
2019 Secretarial Drought Designations - All Drought



Other Climatic and Water Supply Indicators

Soil Moisture

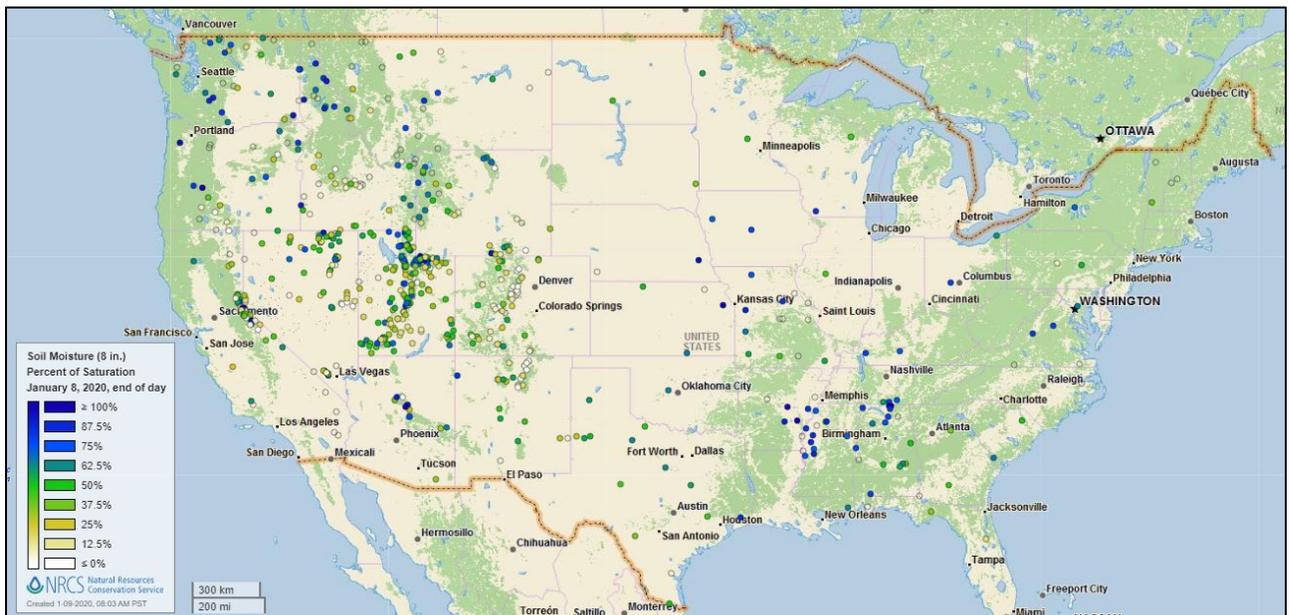
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of January 4, 2020

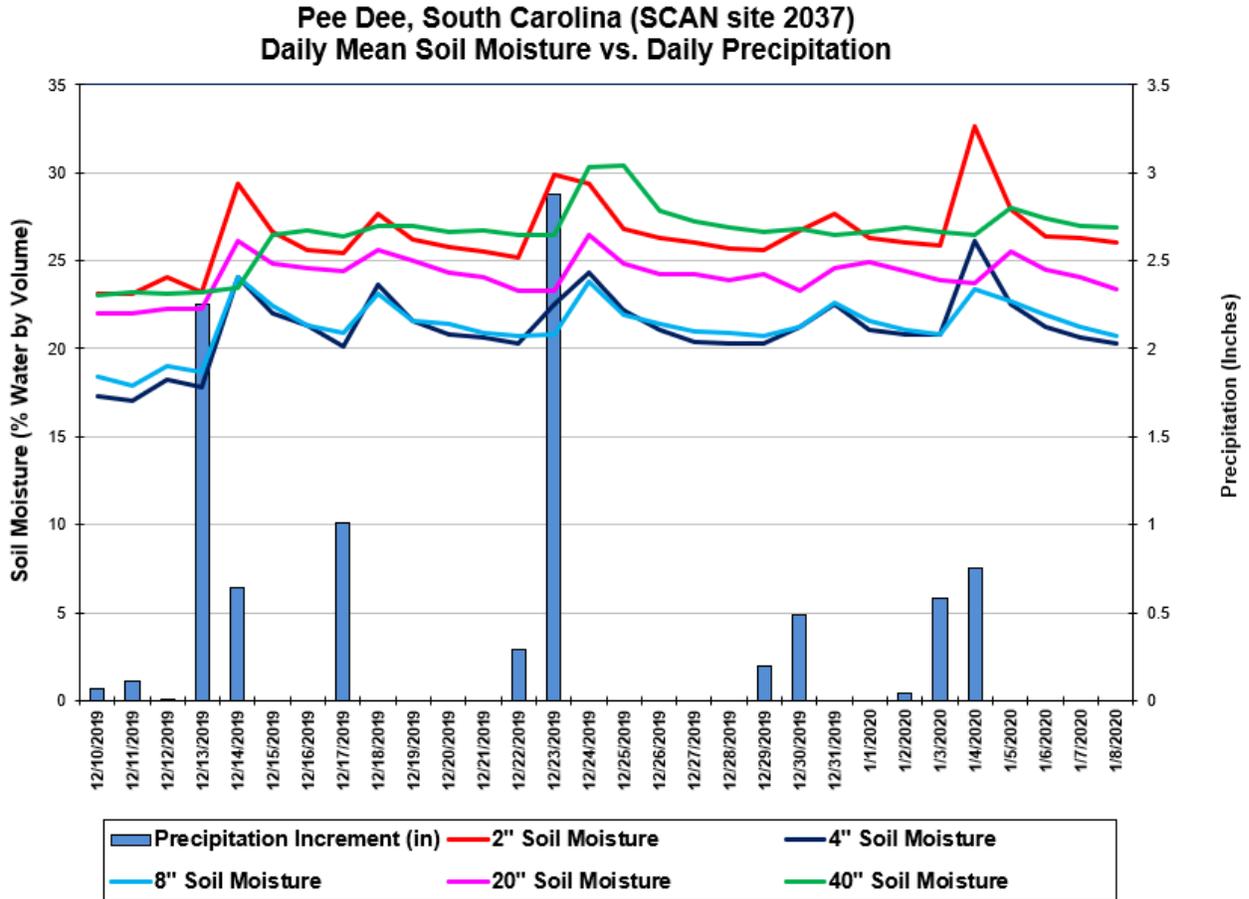
Soil Moisture Percent of Saturation

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. Several precipitation events over the 30-day period resulted in increased soil moisture at all five sensor depths.

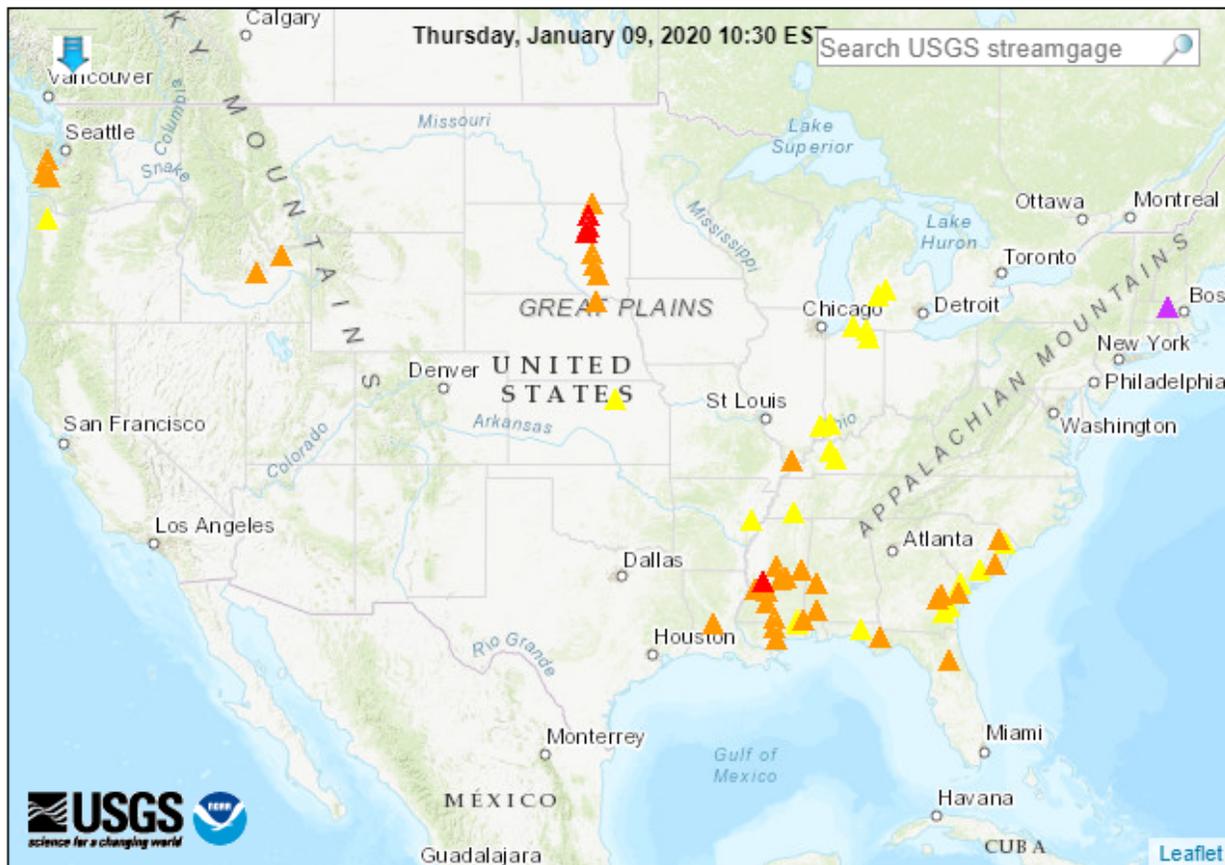
Soil Moisture Data Portals

- [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
 (38 in floods [major: 1, moderate: 4, minor: 33], 21 in near-flood)



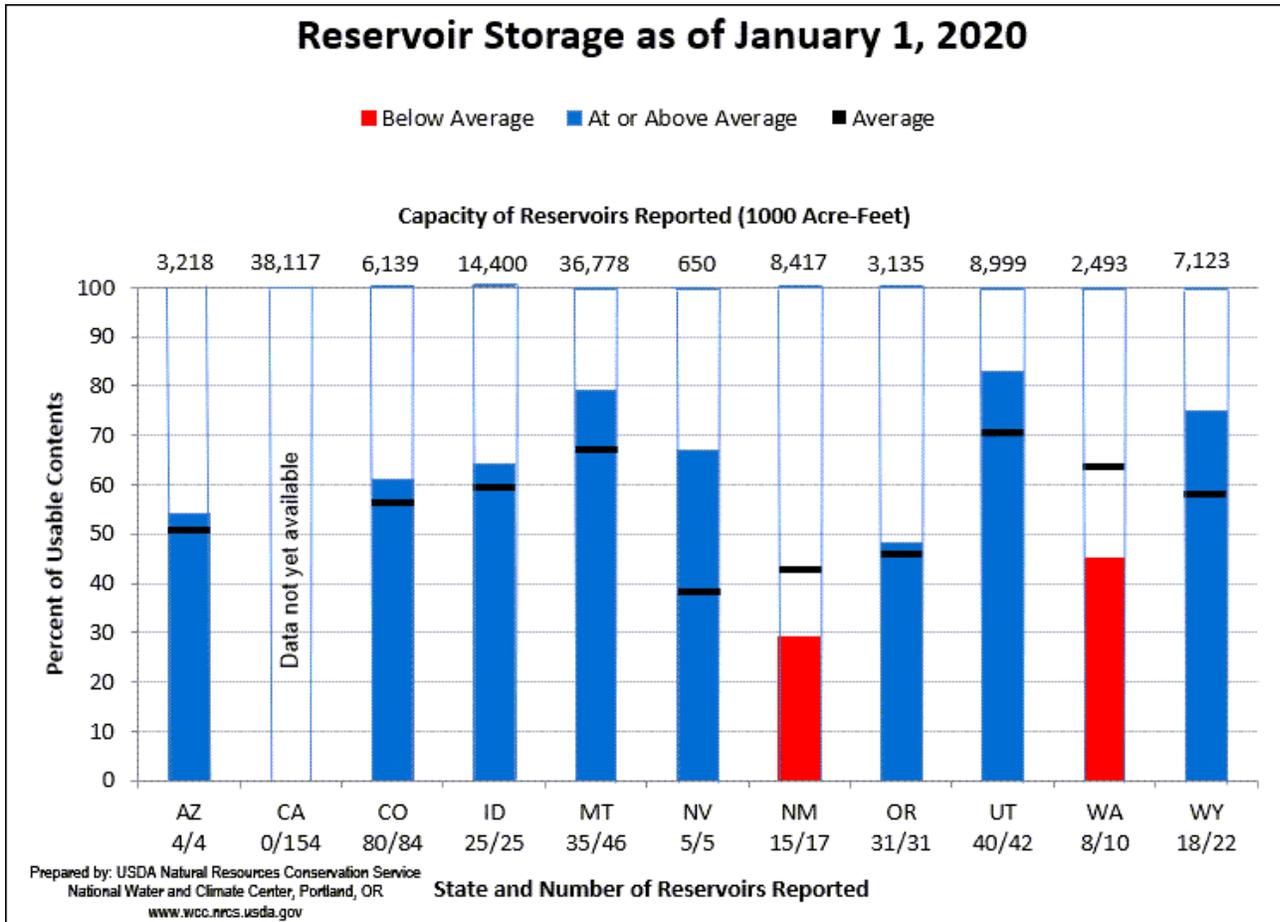
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			△ Streamgage with flood stage	○ Streamgage without flood stage		

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



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

Hydromet Tea Cup Reservoir Depictions

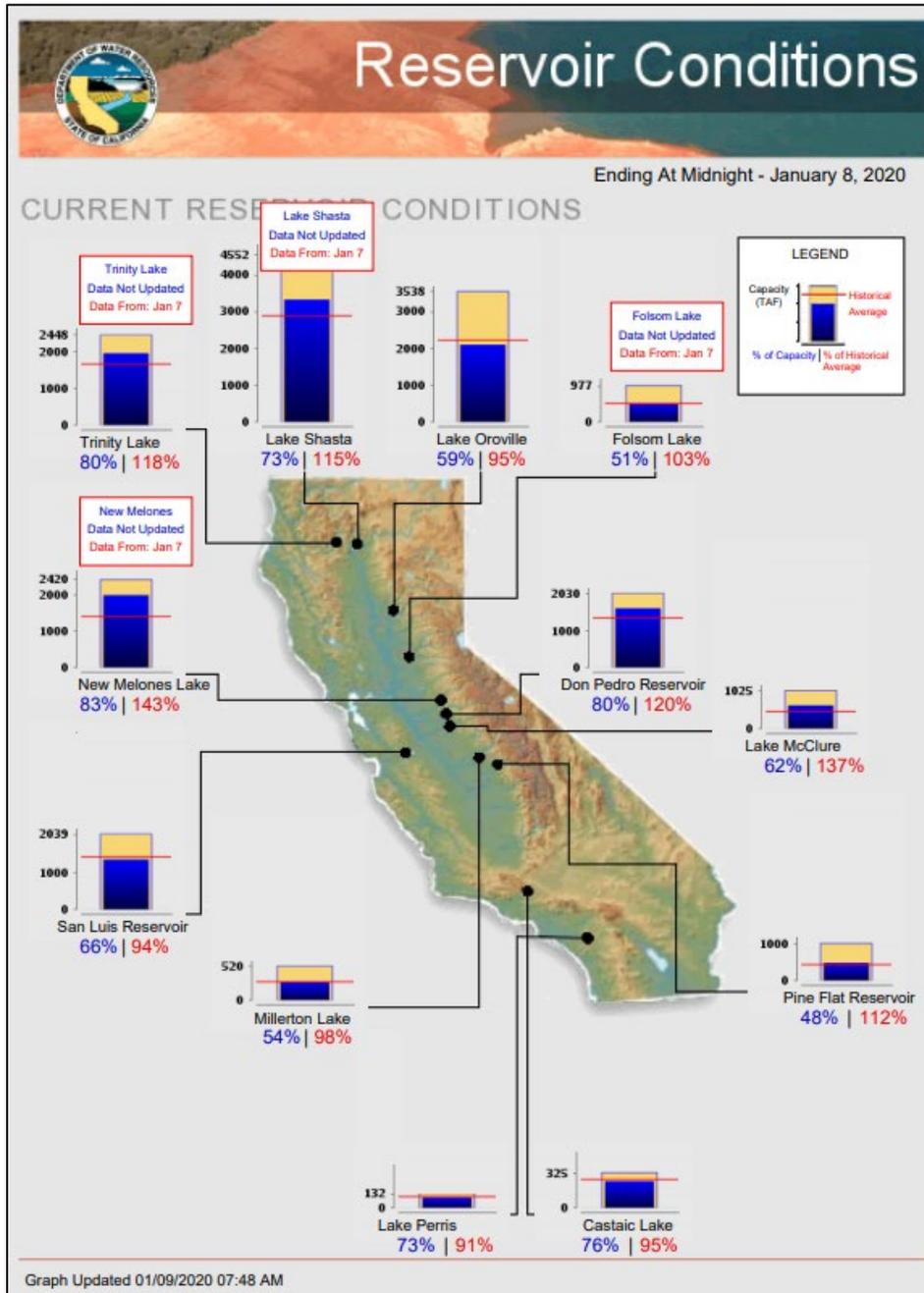
Source: U.S. Bureau of Reclamation

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

Water and Climate Update

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

Short- and Long-Range Outlooks

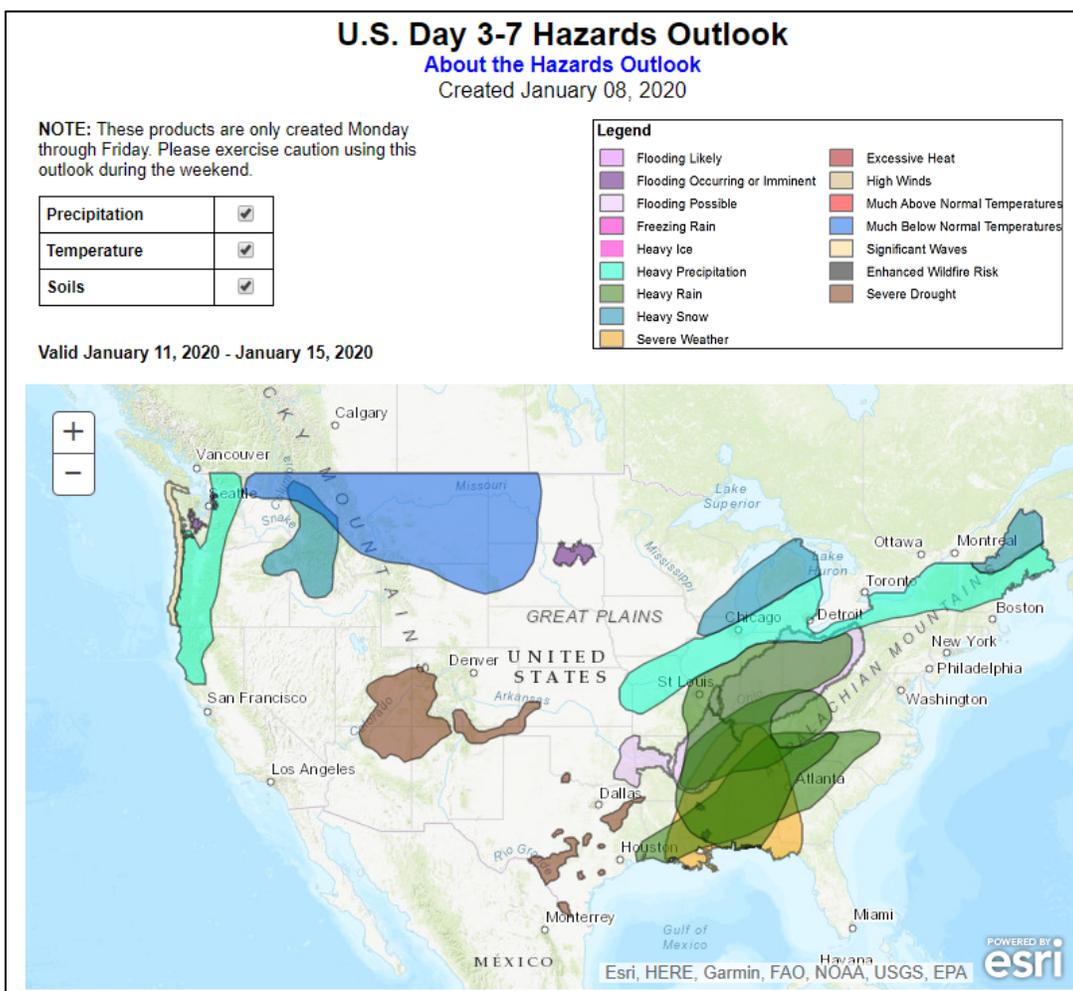
Agricultural Weather Highlights

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

National Outlook, Thursday, January 9, 2020: “For the remainder of today, some light snow will fall across the upper Great Lakes region, while some high elevation sites in the West will also receive snow. By Friday, an impressive winter storm will begin to intensify across the nation’s mid-section. Snow will develop across the central Plains and spread northeastward, reaching parts of the Midwest and northern New England during the weekend. Meanwhile, heavy rain and locally severe thunderstorms will erupt across the southeastern Plains on Friday and subsequently sweep eastward. Rainfall totals of 2 to 6 inches could spark widespread flooding from the mid-South into the lower Great Lakes region. Rain may linger in the Southeast into early next week. Late in the weekend and early next week, a surge of extremely cold air will begin to push south of the Canadian border into the Northwest, northern sections of the Rockies and Plains, and the upper Midwest, preceded by snow. The NWS 6- to 10-day outlook for January 14 – 18 calls for above-normal temperatures in the South, East, and lower Midwest, while colder-than-normal conditions will dominate the West, as well as the northern and central Plains and upper Midwest. Meanwhile, wetter-than-normal weather nearly nationwide should contrast with near- or below-normal precipitation across Florida’s peninsula and southern sections of the Rockies and High Plains.”

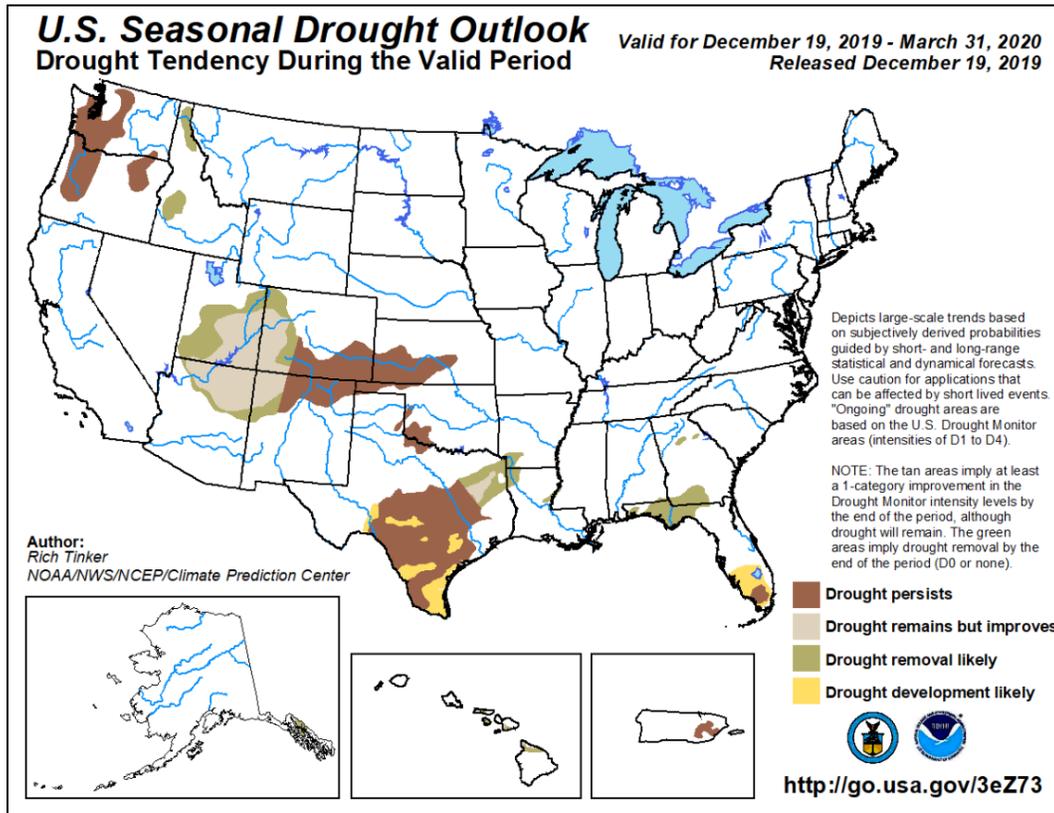
Weather Hazards Outlook: [January 11 - 15, 2020](#)

Source: NOAA Climate Prediction Center



Seasonal Drought Outlook: [December 19, 2019 – March 31, 2020](#)

Source: National Weather Service

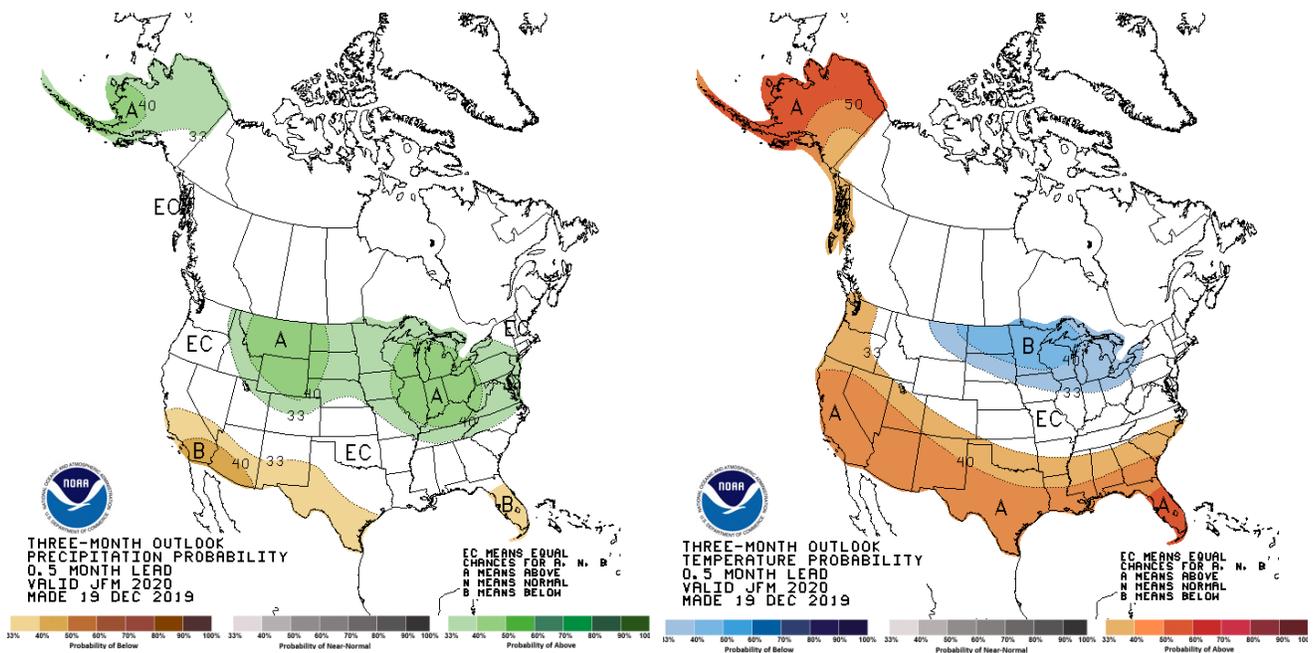


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



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](#).