

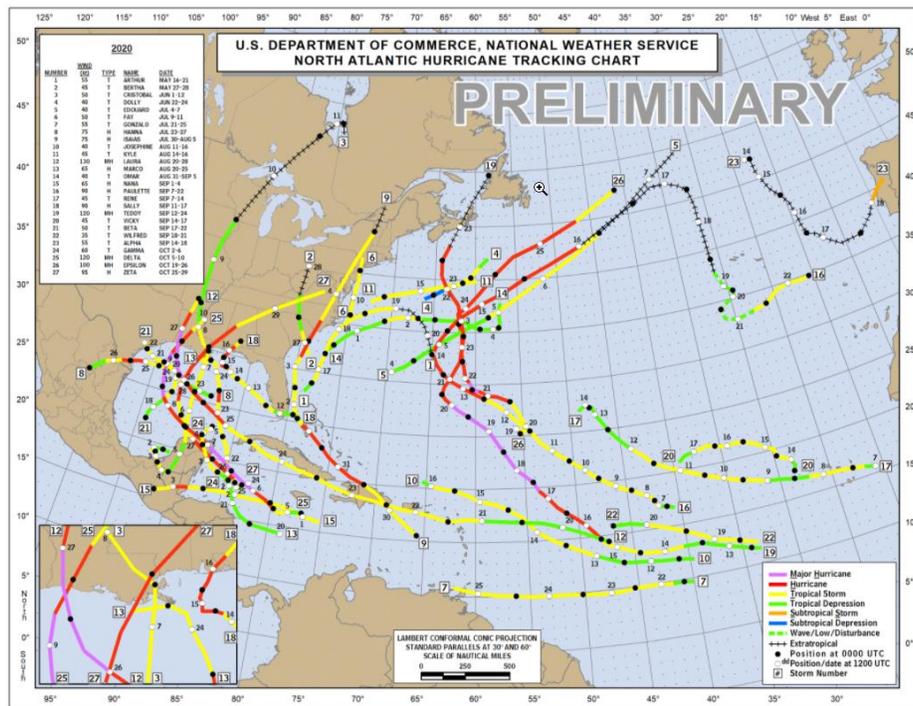
Water and Climate Update

November 5, 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	Drought	10
Precipitation	4	Other Climatic and Water Supply Indicators	13
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Hurricane Zeta latest storm that made landfall in the U.S.

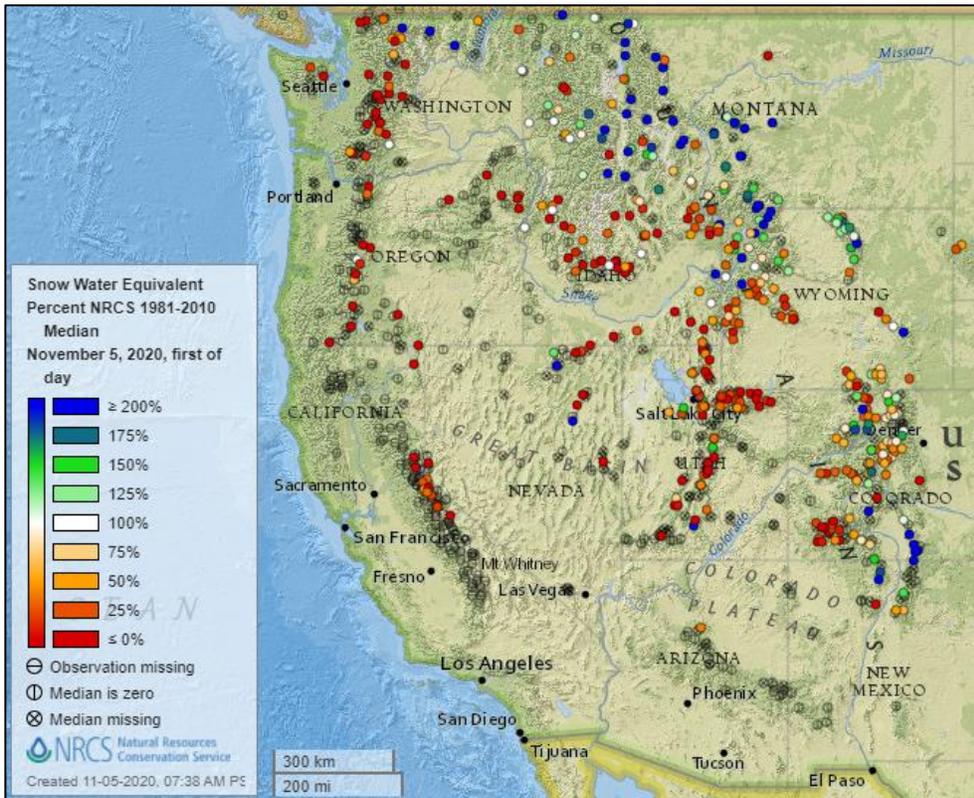


Hurricane Zeta was the 27th named storm for 2020, closing in on the record 2005 hurricane season which recorded 29 named storms. It was also the 11th named storm to make landfall in the U.S. in a single season, a new record. Zeta made landfall in Louisiana as a category 2 hurricane with winds of 110 mph on the late afternoon of October 28. The storm weakened as it travelled northeast bringing another round of heavy rain and wind to the region. The 2020 hurricane season from the NOAA National Hurricane Center is shown above with the inset displaying the multiple landfalls of storms along the U.S. Gulf Coast.

Related:

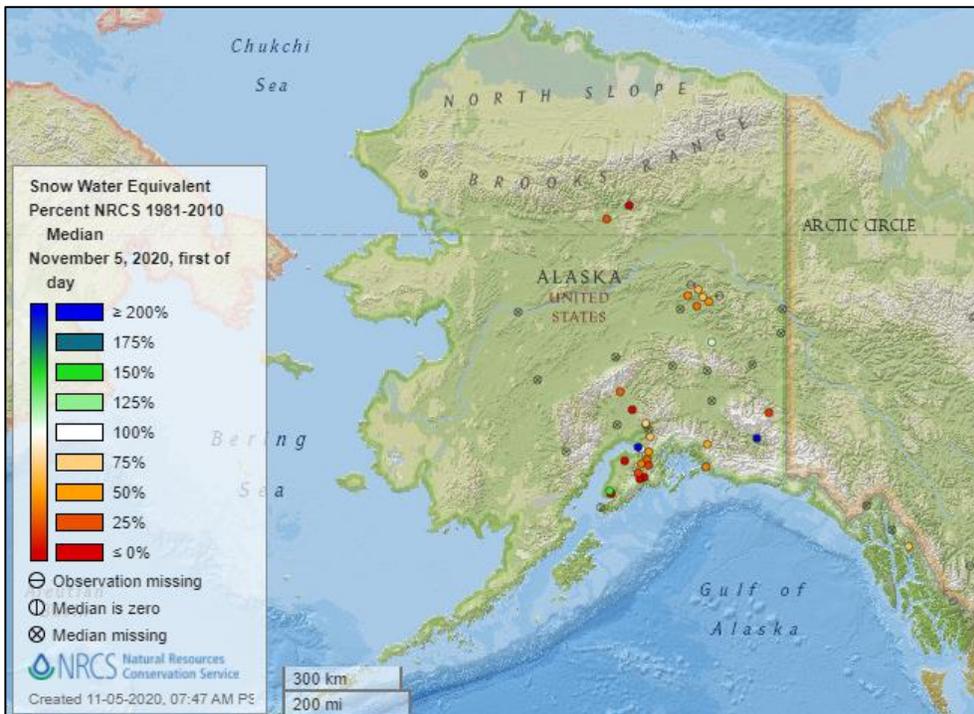
- [Tropical Storm Zeta zaps Central Virginia](#) – WRIC (VA)
- [Thousands still with out power after Hurricane Zeta](#) – WWLTV (LA)
- [23,000 in Alabama still without power after Hurricane Zeta](#) – al.com
- [CoreLogic Estimates \\$2.5 Billion to \\$4.0 Billion in Insured Losses from Hurricane Zeta Wind and Storm Surge](#) – AP
- ['There's nothing protecting us' after Hurricane Zeta blasts through Grand Isle's levee](#) – NOLA.com (LA)

Snow



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

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

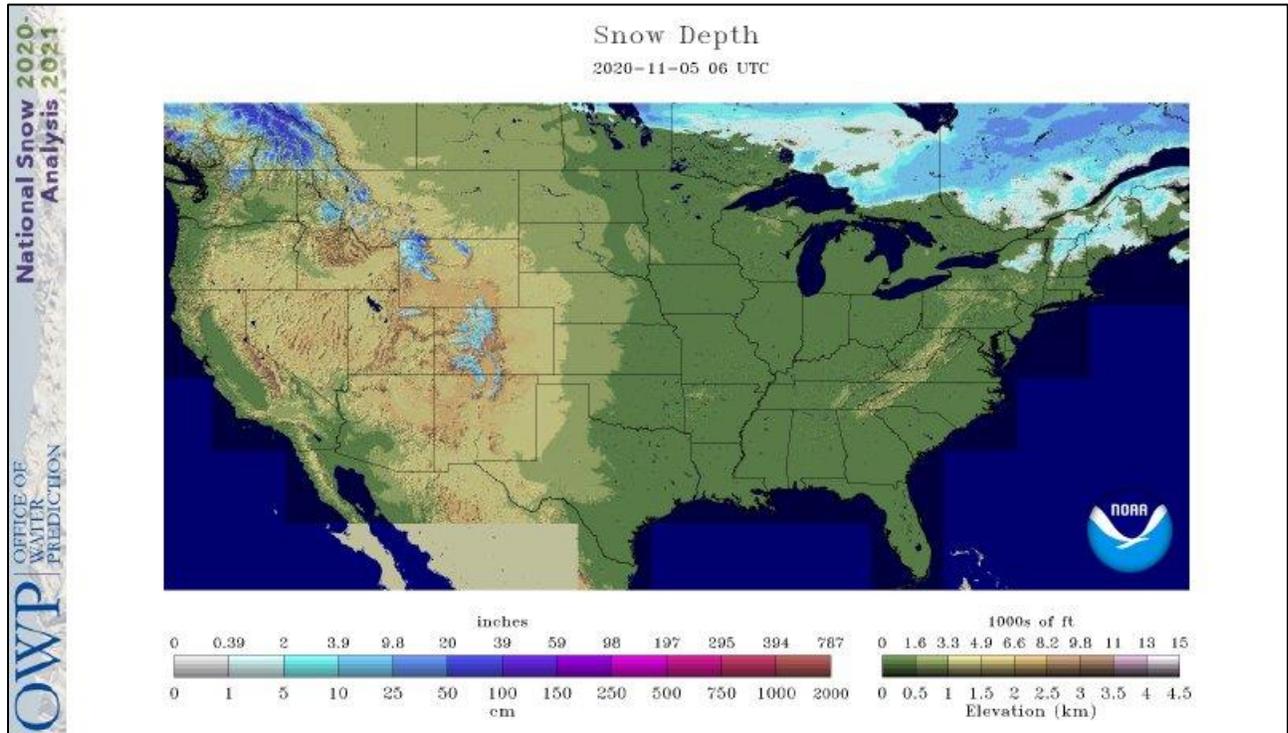


[Alaska snow water equivalent percent of median map](#)

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

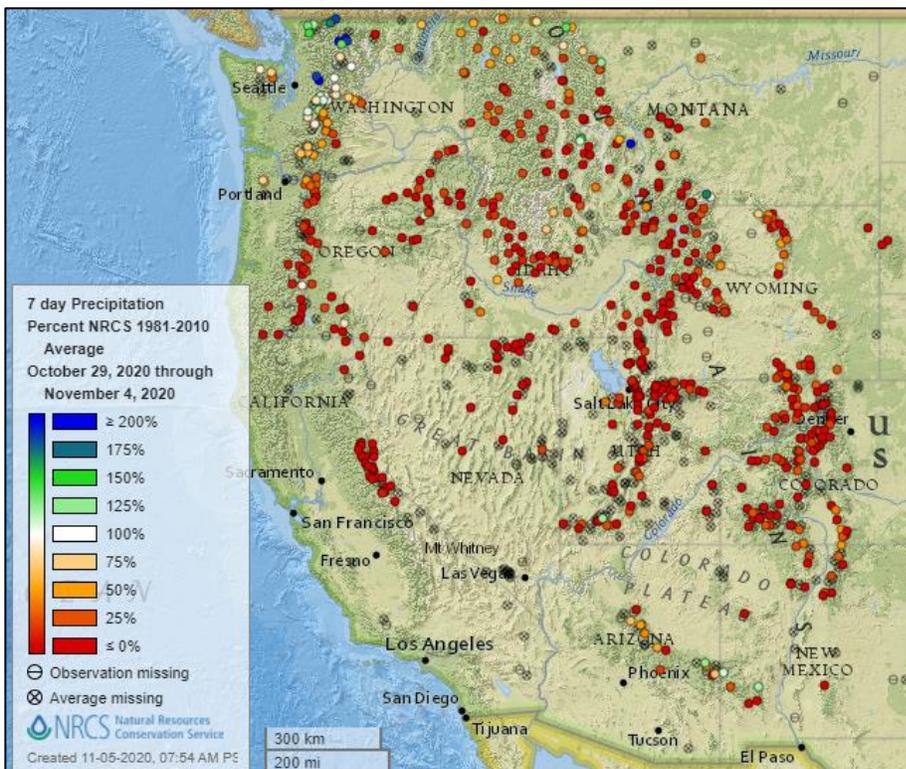
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA Office of Water Prediction



Precipitation

Last 7 Days, NRCS SNOTEL Network

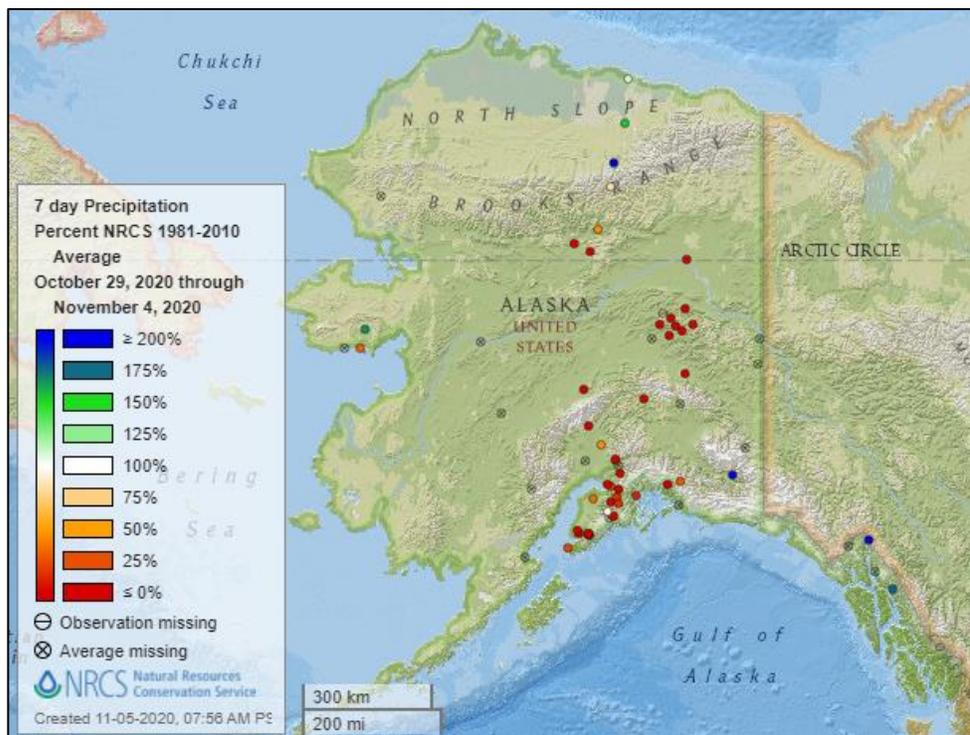


[7-day precipitation percent of average map](#)

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](#)



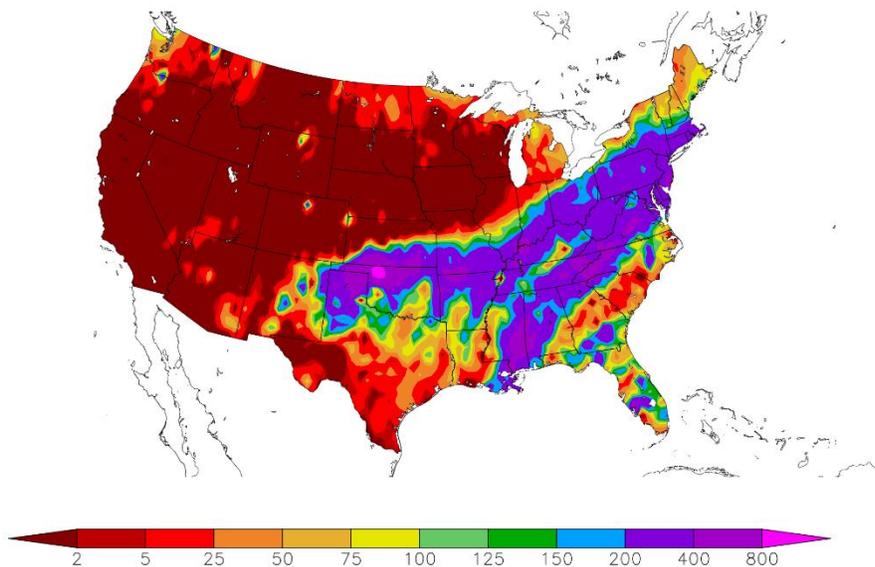
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
10/28/2020 – 11/3/2020



Generated 11/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

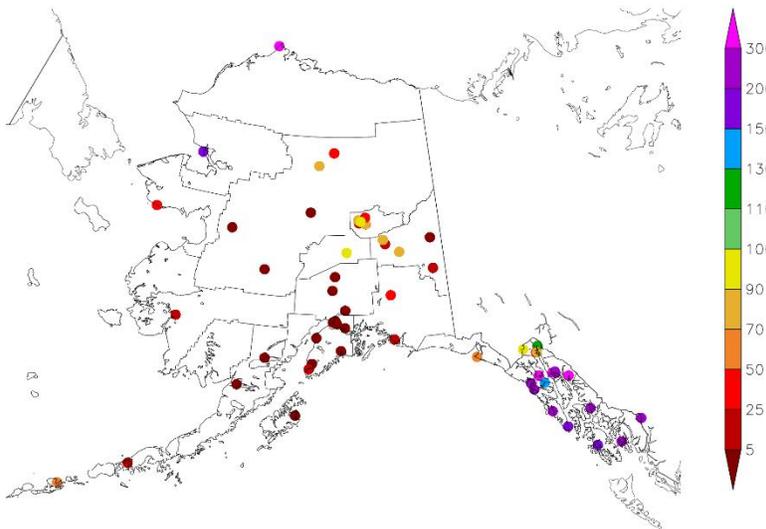
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
10/28/2020 – 11/3/2020

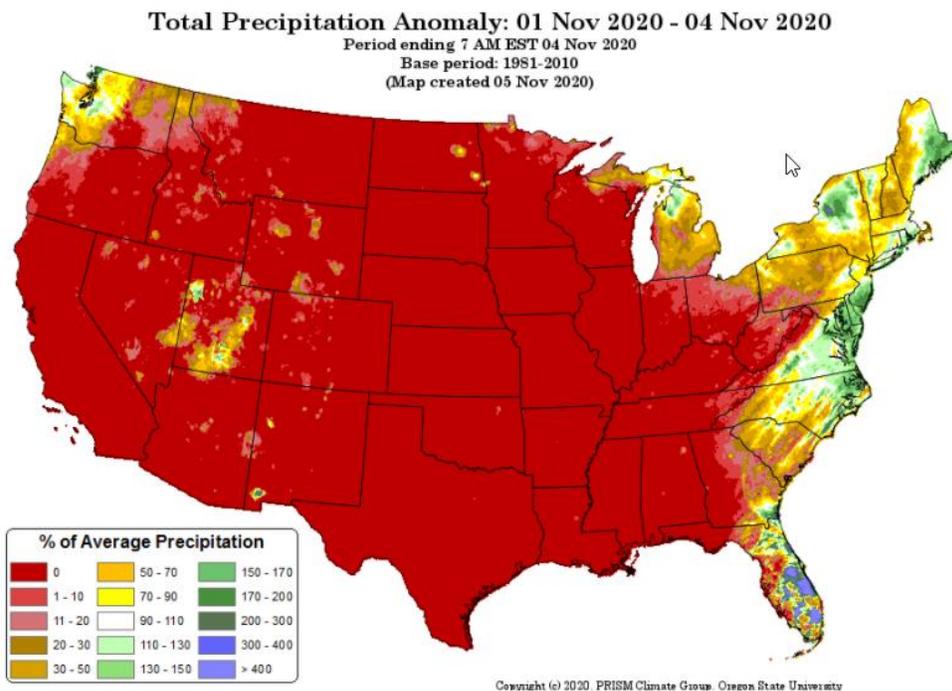


Generated 11/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

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

Source: PRISM

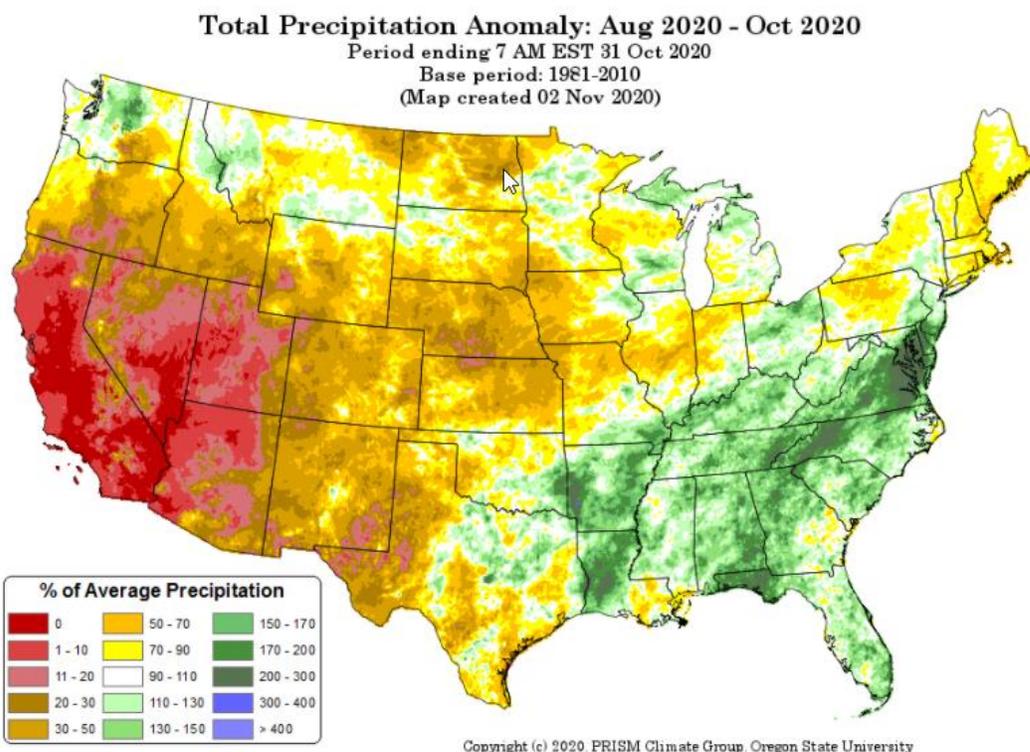


[Month-to-date national total precipitation percent of average map](#)

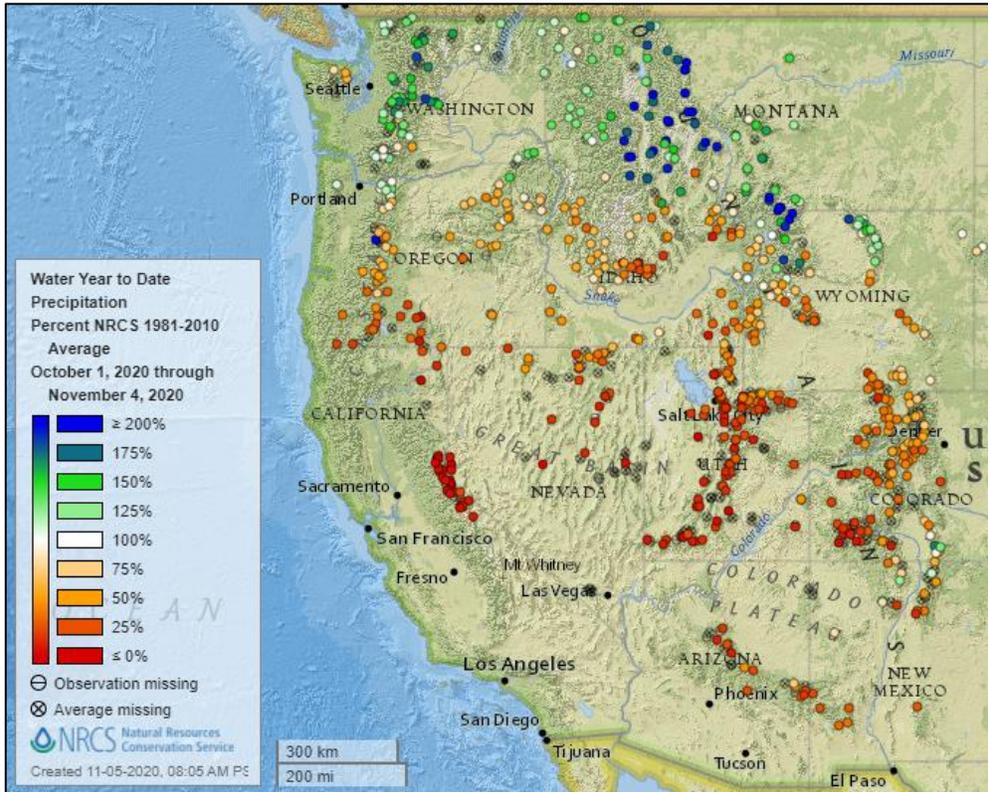
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[August through October precipitation percent of average map](#)

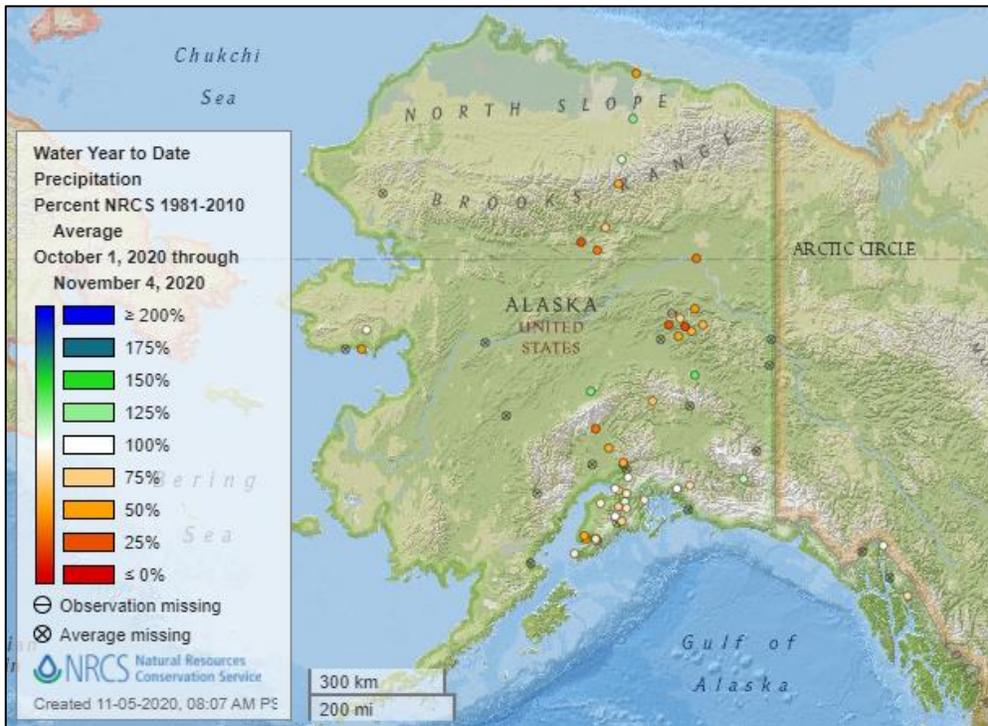


Water Year-to-Date, NRCS SNOTEL Network



[2021 water year-to-date precipitation percent of average map](#)

See also:
[2021 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2021 water year-to-date precipitation percent of average map](#)

See also:
[Alaska 2021 water year-to-date precipitation values \(inches\) map](#)

Temperature

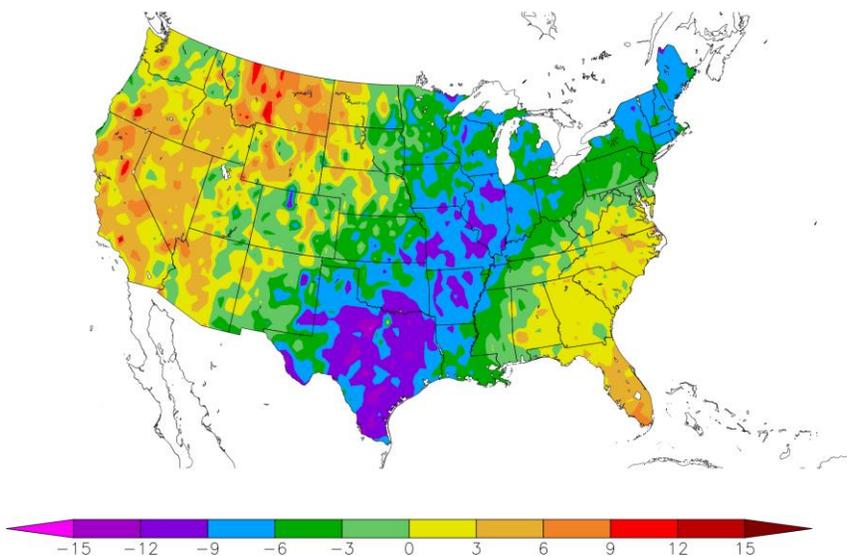
Last 7 Days, National Weather Service (NWS) Networks

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)
10/28/2020 – 11/3/2020



Generated 11/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Ce

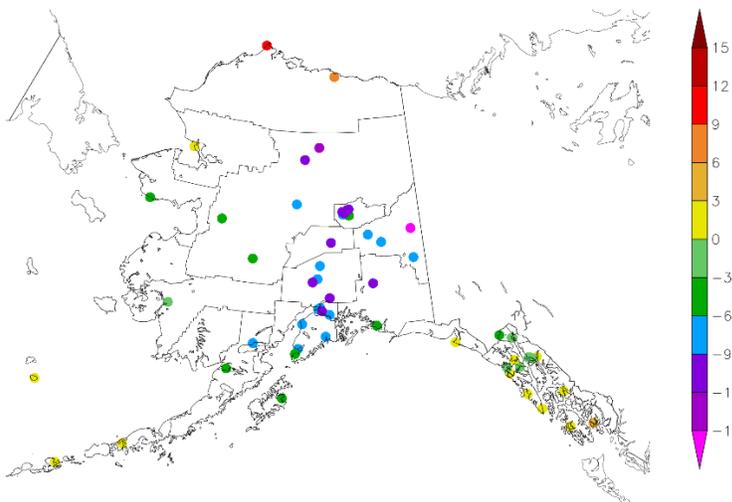
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
10/28/2020 – 11/3/2020



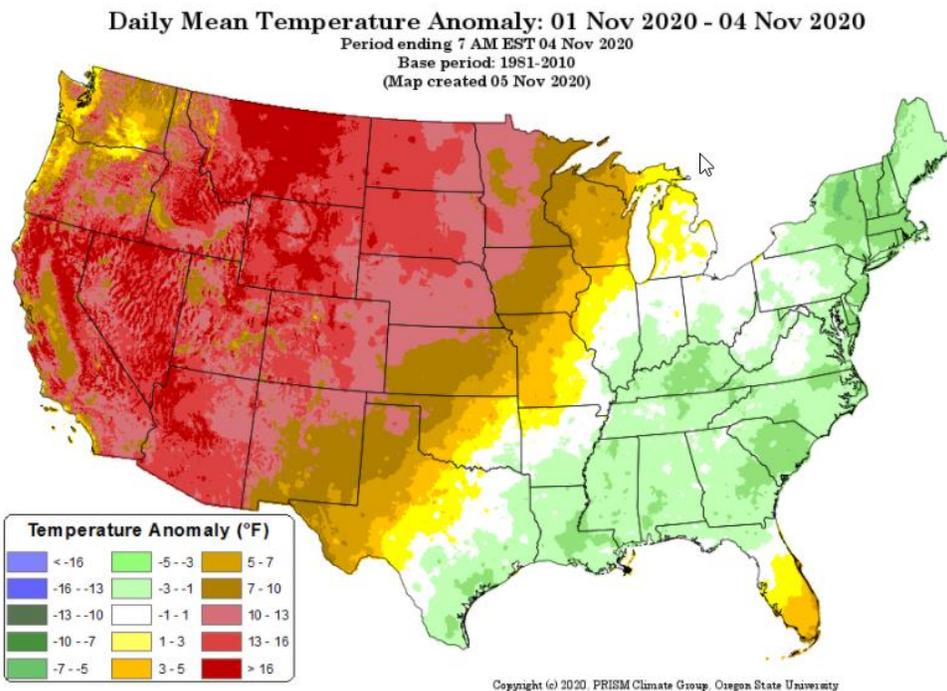
Generated 11/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

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

Source: PRISM

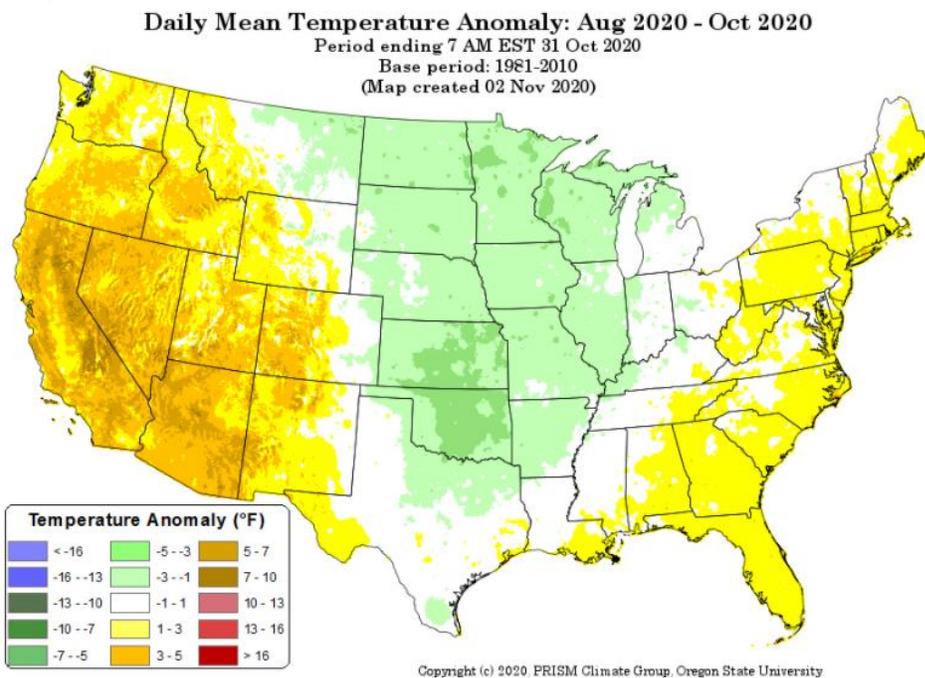
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[August through October 2020 daily mean temperature anomaly map](#)



[August through October 2020 daily mean temperature anomaly map](#)

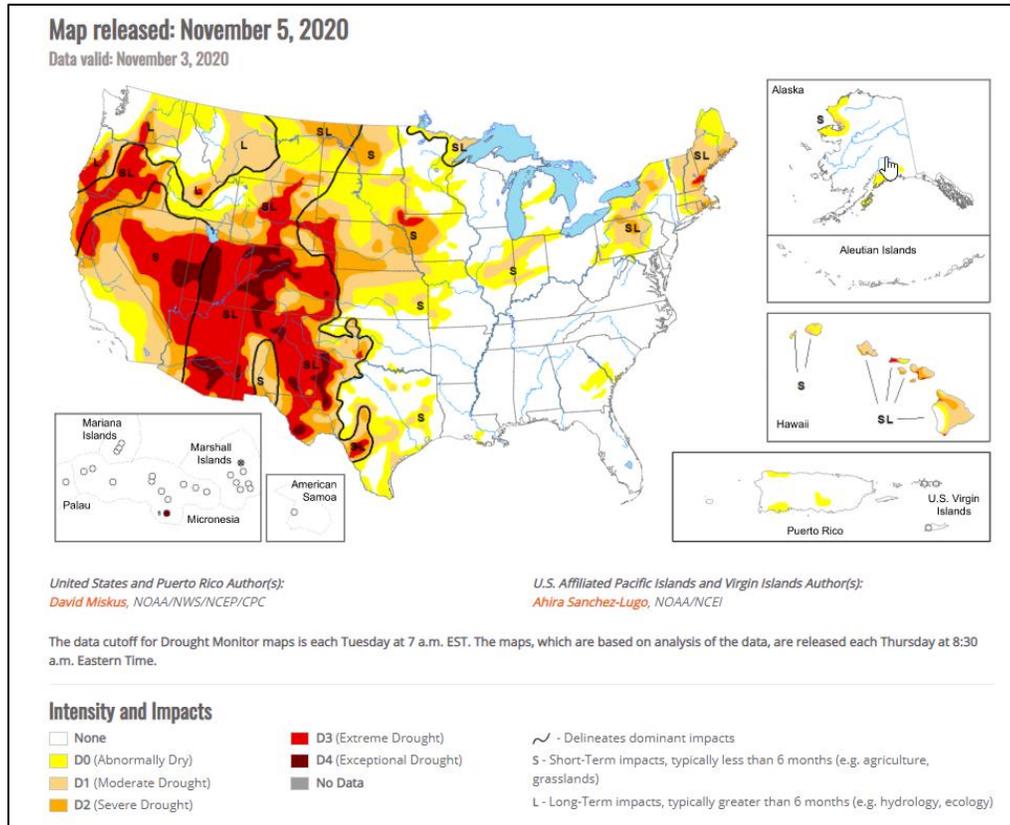
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), November 3, 2020

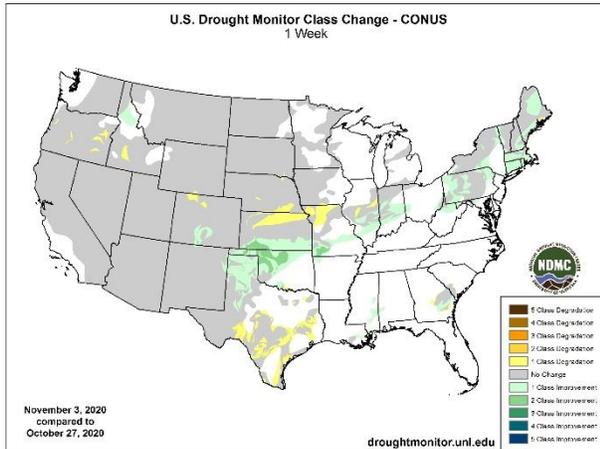
Source: National Drought Mitigation Center

“Hurricane Zeta made landfall near Cocodrie in southeastern Louisiana during the late afternoon on Wednesday, October 28, as a Category 2 hurricane with sustained winds estimate at 110 mph. With a fast northeastern track that took it off the mid-Atlantic Coast in about 24 hours, the rapid pace limited rainfall totals along its track to between 2 and 4 inches, with locally heavier amounts in southern Mississippi and Alabama of up to 8 inches. Unfortunately, the fast pace delayed the weakening of Zeta’s winds, and widespread wind damage and power outages occurred along Zeta’s path, even into the mid-Atlantic. In addition as the period started, an upper-air low over the southern Rockies slowly tracked eastward, becoming infused with tropical moisture from Zeta and the Gulf of Mexico. It dumped 1.5 to 3.5 inches of precipitation, locally to 5 inches, from the western Oklahoma and northern Texas Panhandles eastward across northern Oklahoma and southern Kansas, southern Missouri and northern Arkansas, and into the Ohio and Tennessee Valleys. Although the precipitation was very beneficial to the winter wheat crop and pastures, some of the precipitation fell in the form of snow and freezing rain in western Texas, Oklahoma, and Kansas, causing damage. Once the upper-air low and Zeta cleared the East Coast, much drier and colder air rushed into the Northeast and Southeast, with light snow accumulating across parts of western New England and upstate New York. Elsewhere, little or no precipitation occurred in the Far West, Southwest, Rockies, southern and northern Plains, and upper Midwest. Subnormal weekly temperatures enveloped the Midwest, southern and central Plains, and Northeast, while the West, Rockies, and Southeast experienced near to above-normal readings. Welcome showers fell across most of Puerto Rico while drought expanded across portions of Hawaii’s Big Island.”

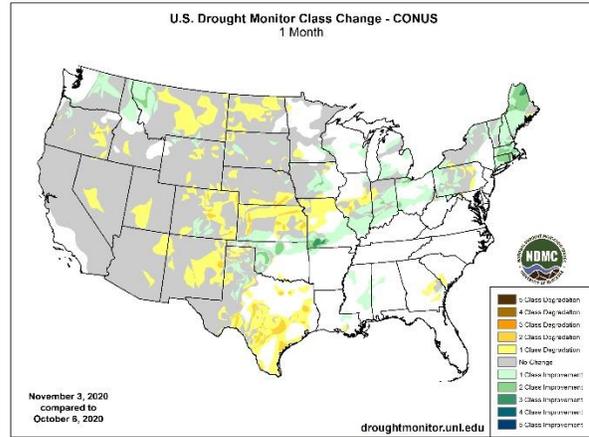
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

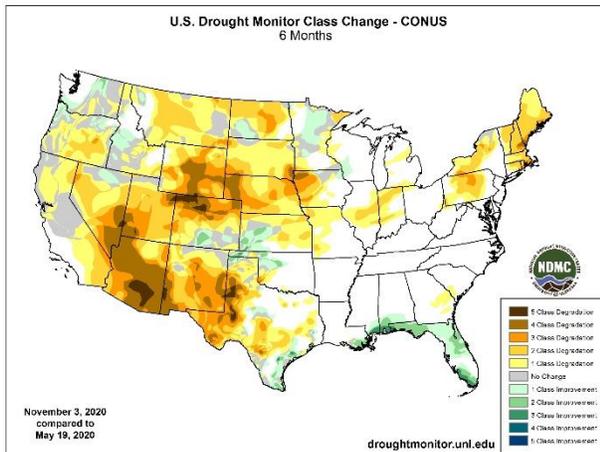
1 Week



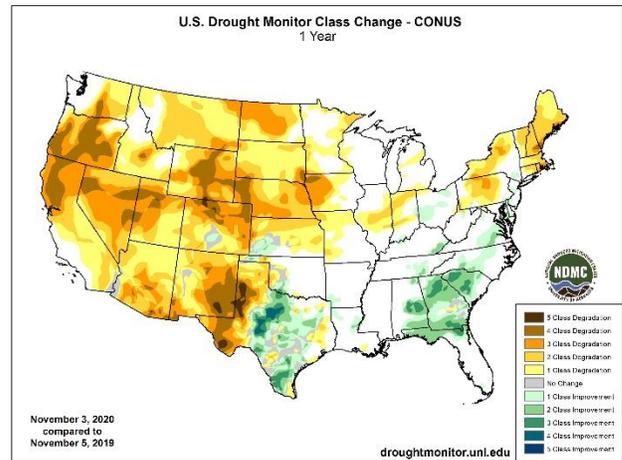
1 Month



6 Months



1 Year



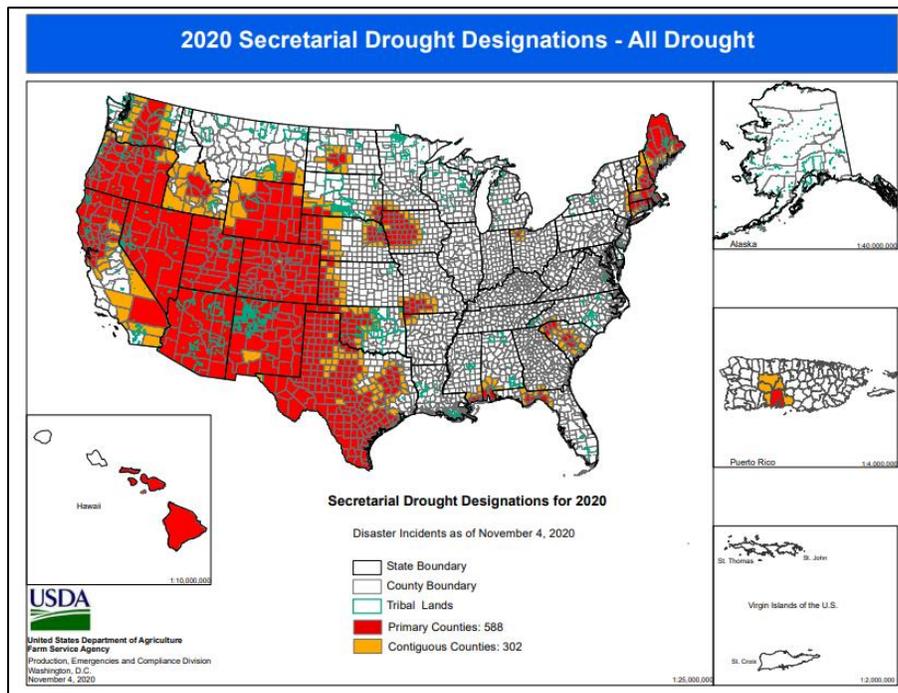
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

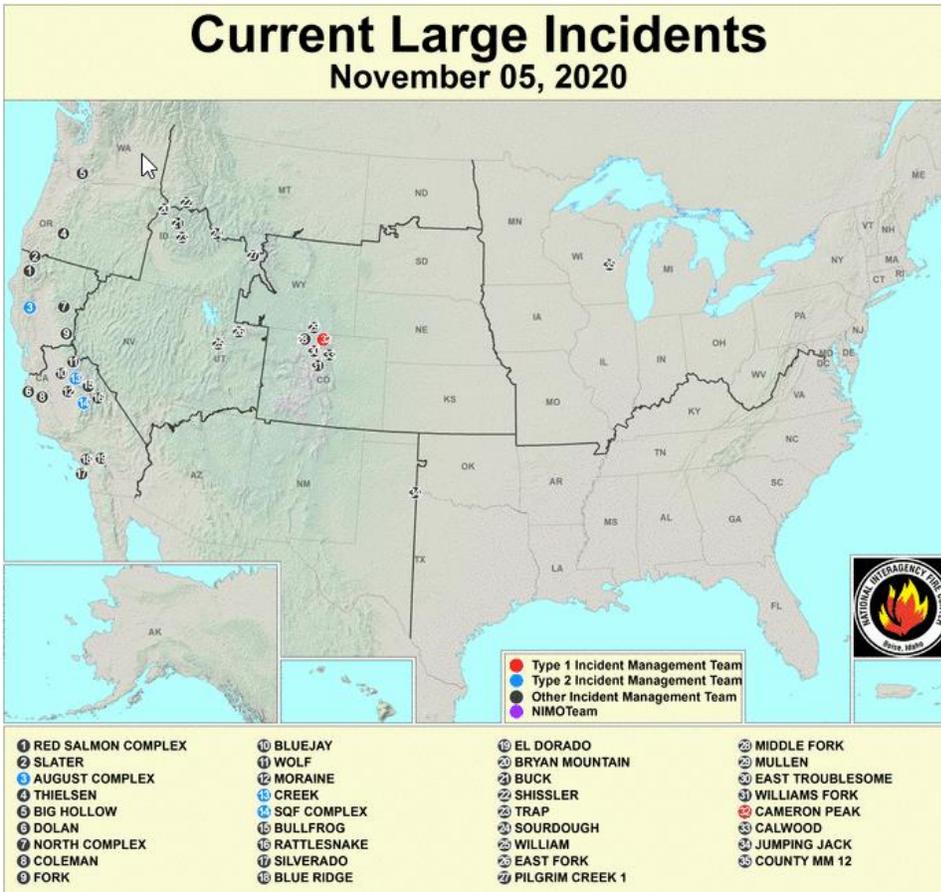
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



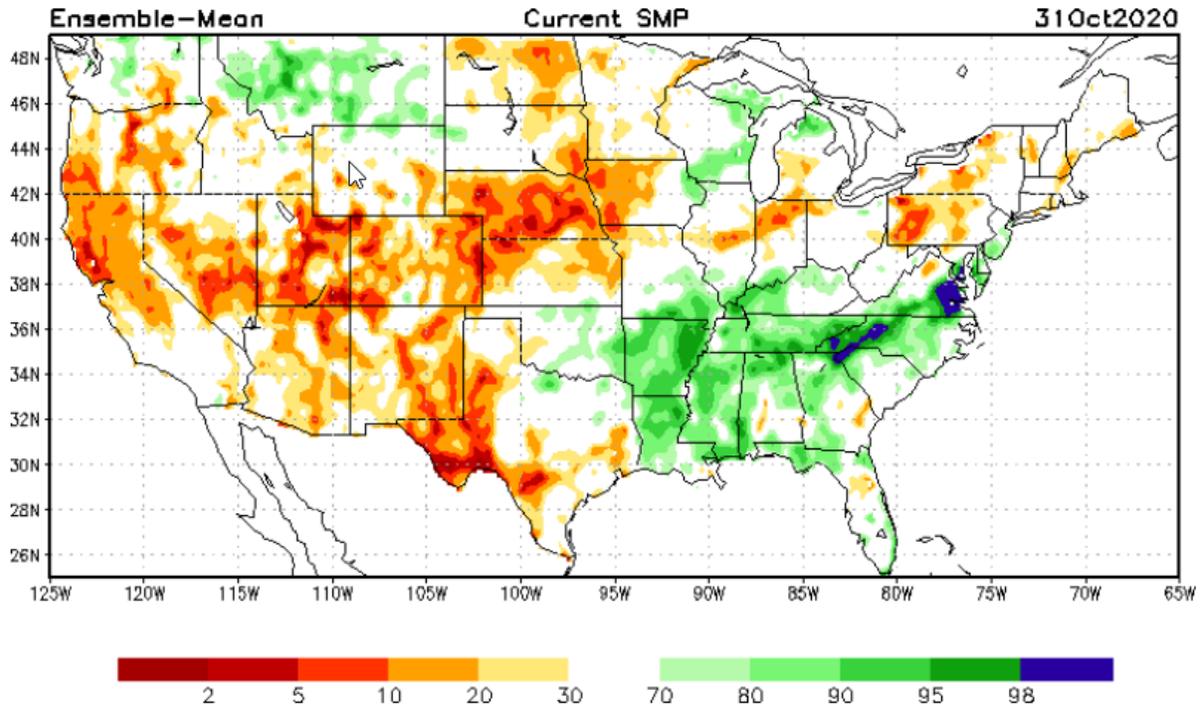
**Highlighted
Wildfire
Resources**

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

Other Climatic and Water Supply Indicators

Soil Moisture

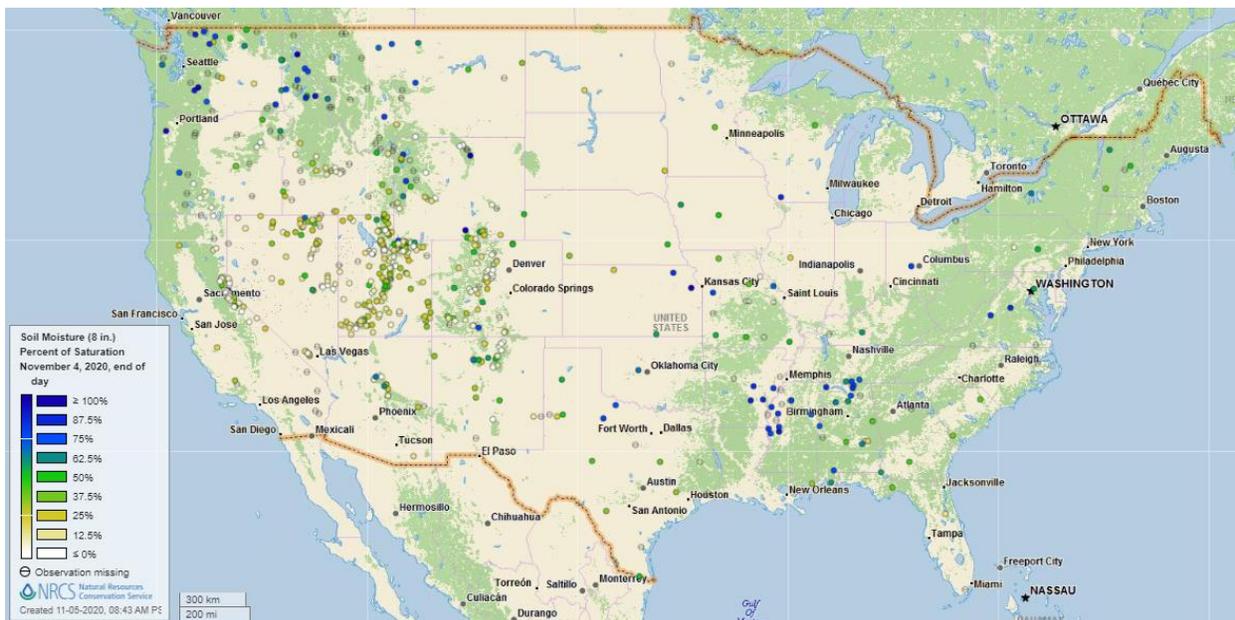
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of October 24, 2020

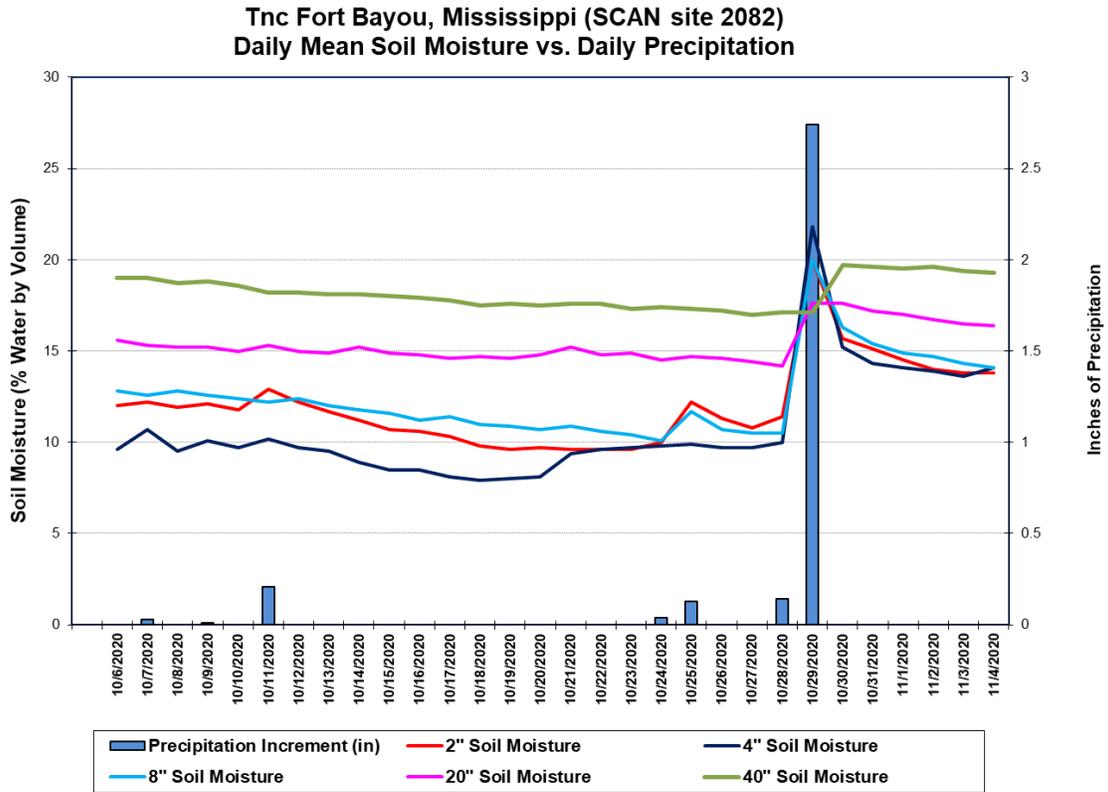
Soil Moisture Percent of Saturation

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



Soil Moisture

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



This chart shows the precipitation and soil moisture for the last 30 days at the [Tnc Fort Bayou](#) SCAN site in Mississippi. Precipitation from Hurricane Zeta on October 28 of 2.74 inches increased the soil moisture at all sensor depths.

Soil Moisture Data Portals

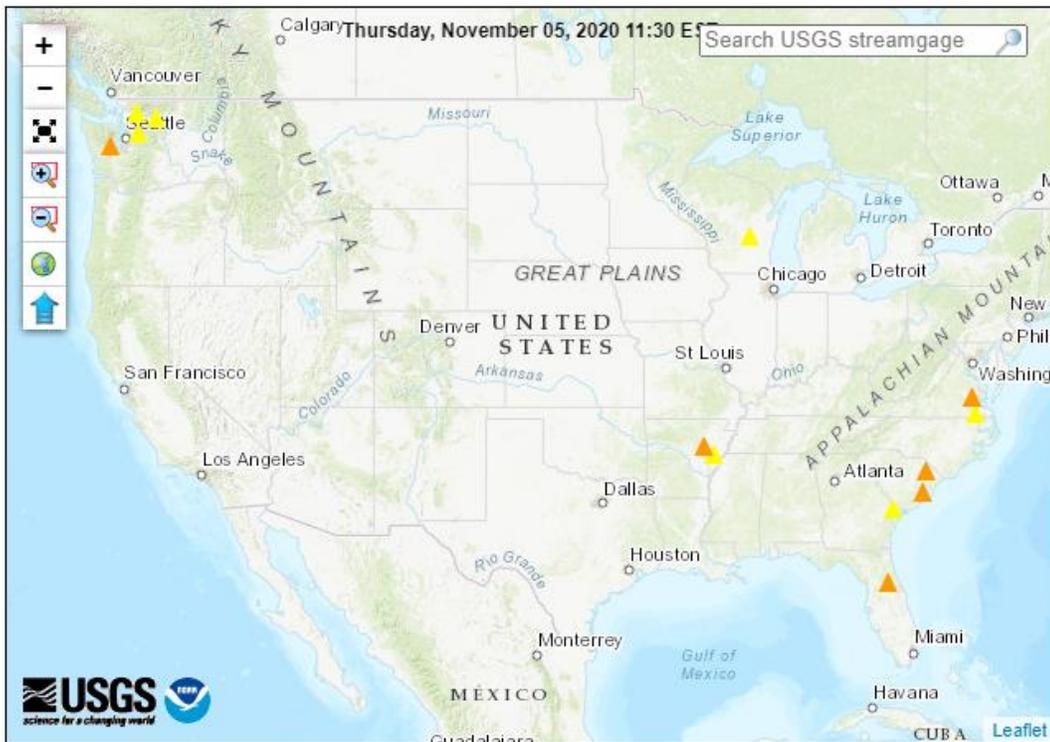
- [CRN Soil Moisture](#)
- [Texas A&M University North American Soil Moisture Database](#)
- [University of Washington Experimental Modeled Soil Moisture](#)

Streamflow, Drought, Flood, and Runoff

Source: U.S. Geological Survey

Map of flood and high flow conditions

(8 in floods [major: 1, minor: 7], 7 in near-flood)



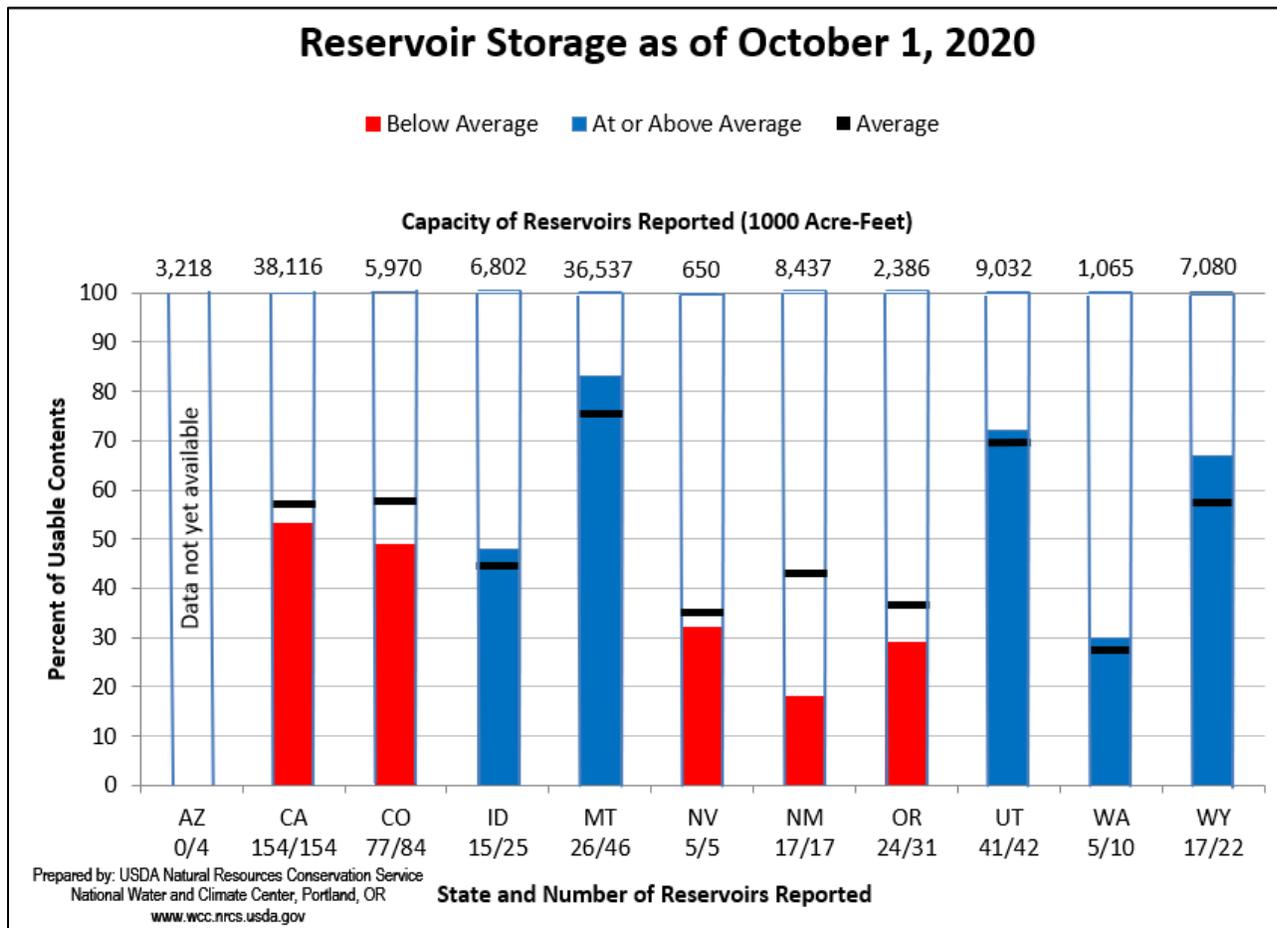
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
▲ Streamgage with flood stage ○ Streamgage without flood stage						

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

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



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

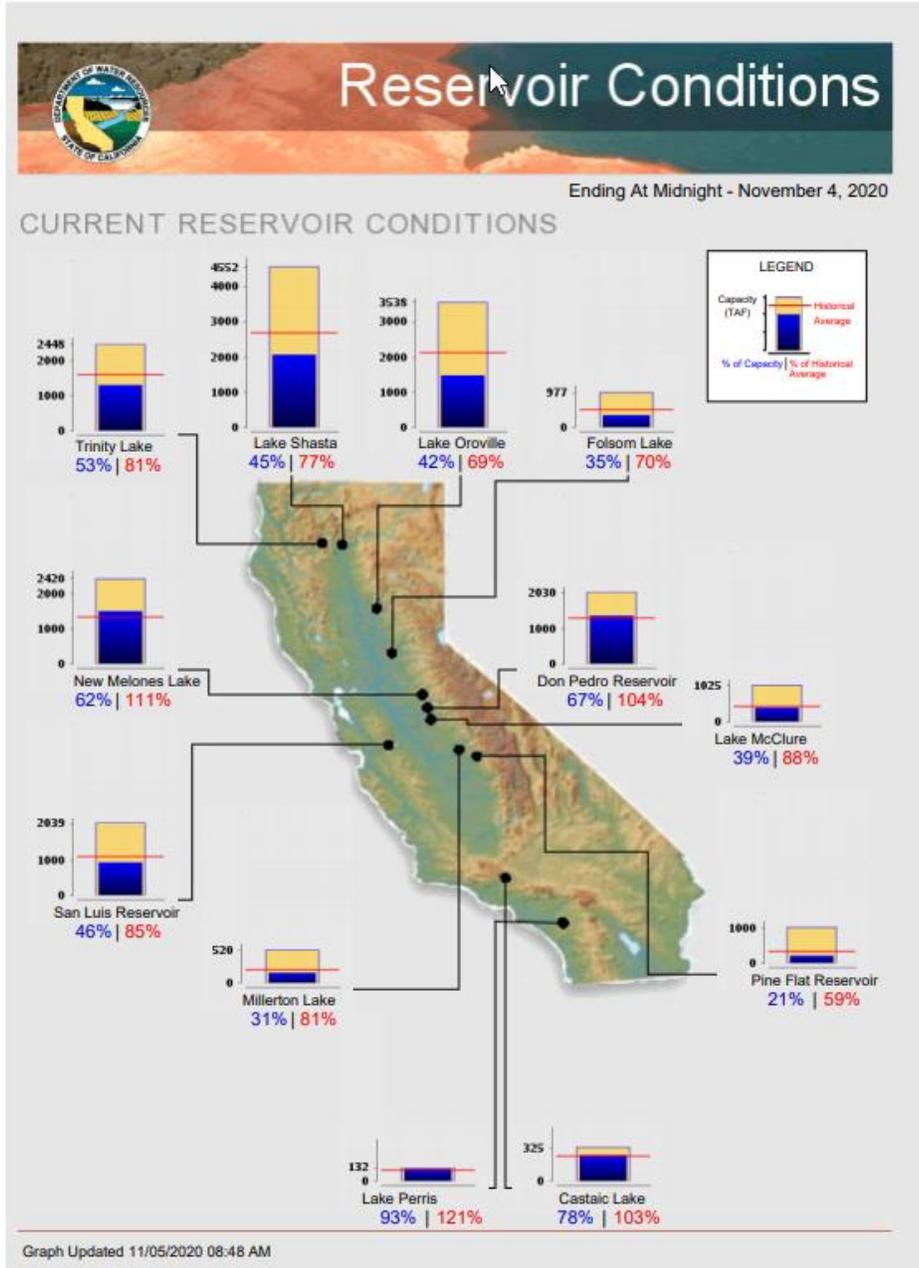
Hydromet Teacup Reservoir Depictions

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 for Thursday, November 5, 2020: “A weather pattern featuring mostly dry conditions and coast-to-coast warmth will undergo some significant changes during the next few days. Warm, dry weather will continue, however, during the next 5 days in most areas from the Mississippi Valley eastward, while cool, wetter weather will gradually overspread the West. By early next week, cool air will also reach the Plains, preceded and accompanied by scattered showers. Five-day precipitation totals could reach 1 to 2 inches or more in scattered locations across the West, mainly in the Cascades, Sierra Nevada, Rockies, and Four Corners region. Significant snow may fall during the weekend across northern sections of the Rockies and High Plains. By early next week, showers and thunderstorms may erupt across portions of the central and southern Plains and Midwest. In the tropics, the remnants of Hurricane Eta may drift toward southern Florida early next week, bringing the possibility of gusty winds and heavy rain. The NWS 6- to 10-day outlook for November 10 – 14 calls for the likelihood of above-normal temperatures in the western Gulf Coast region and across the eastern one-third of the U.S., while colder-than-normal conditions will cover areas from the Pacific Coast to the Plains. Meanwhile, near- or above-normal precipitation across most of the country should contrast with drier-than-normal weather on the northern Plains.”

Weather Hazards Outlook: [November 7 – November 11, 2020](#)

Source: NOAA Weather Prediction Center

U.S. Day 3-7 Hazards Outlook

[About the Hazards Outlook](#)

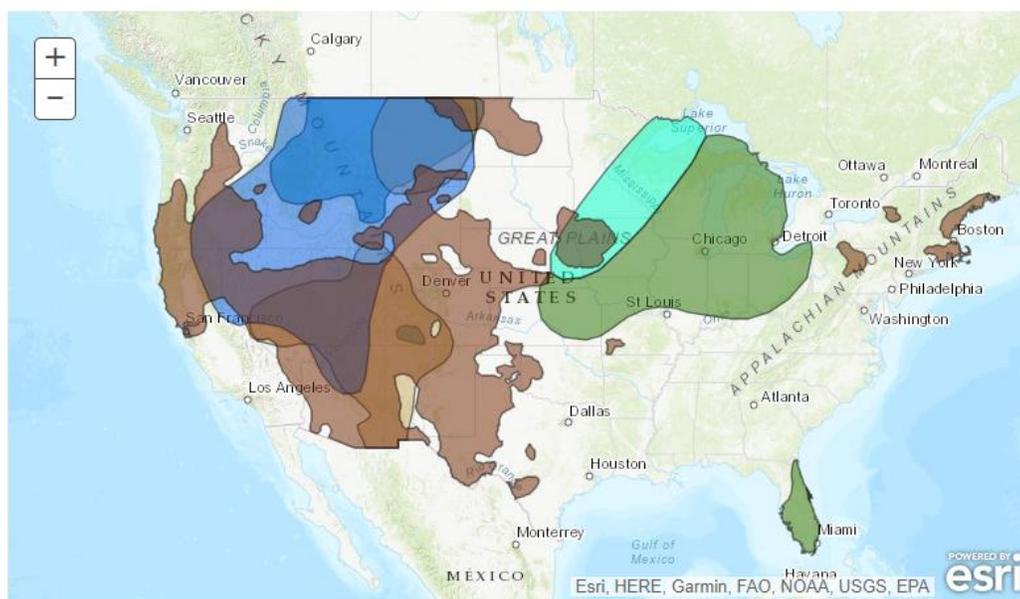
Created November 04, 2020

NOTE: These products are only created Monday through Friday. Please exercise caution using this outlook during the weekend.

Precipitation	<input checked="" type="checkbox"/>
Temperature	<input checked="" type="checkbox"/>
Soils	<input checked="" type="checkbox"/>

Legend			
	Flooding Likely		Excessive Heat
	Flooding Occurring or Imminent		High Winds
	Flooding Possible		Much Above Normal Temperatures
	Freezing Rain		Much Below Normal Temperatures
	Heavy Ice		Significant Waves
	Heavy Precipitation		Enhanced Wildfire Risk
	Heavy Rain		Severe Drought
	Heavy Snow		
	Severe Weather		

Valid November 07, 2020 - November 11, 2020

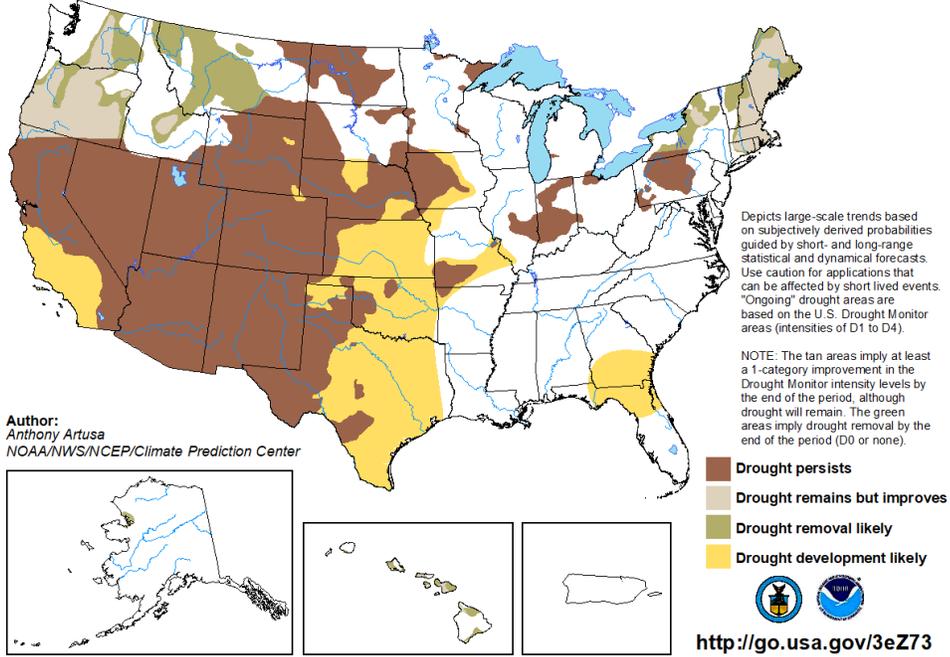


Seasonal Drought Outlook: [October 15, 2020 – January 31, 2021](#)

Source: National Weather Service

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

Valid for October 15, 2020 - January 31, 2021
Released October 15, 2020

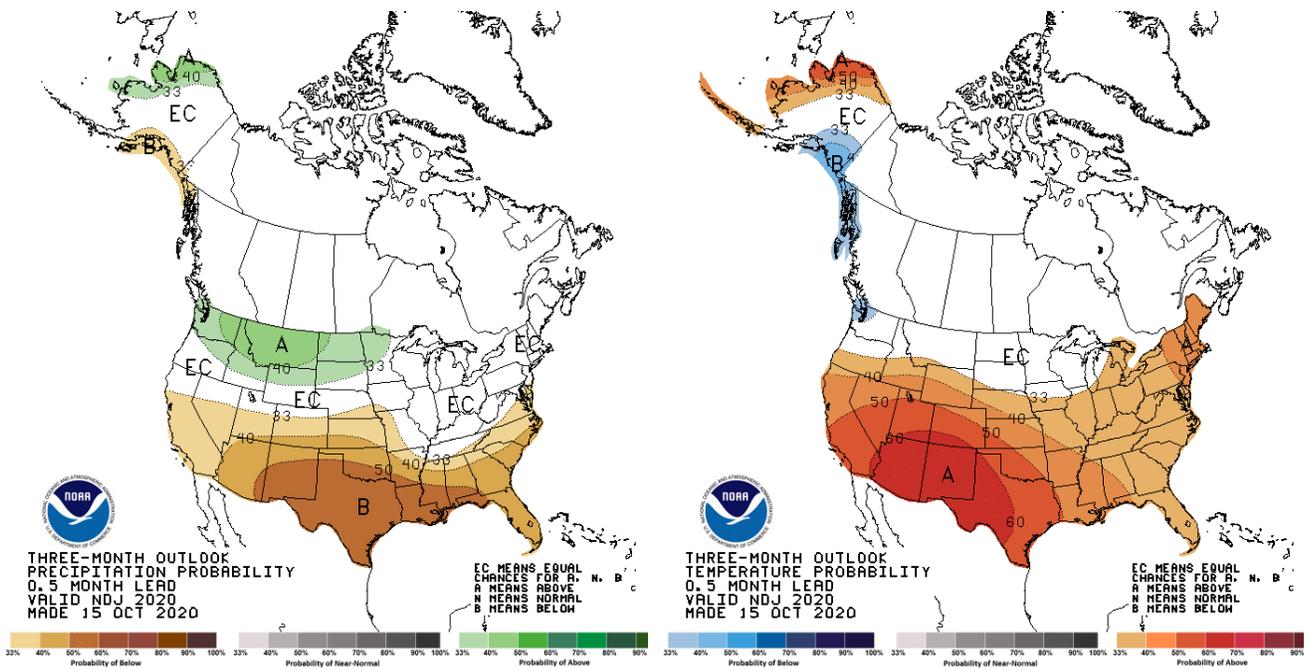


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[November-December-January \(NDJ\) 2020-2021 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](#).