

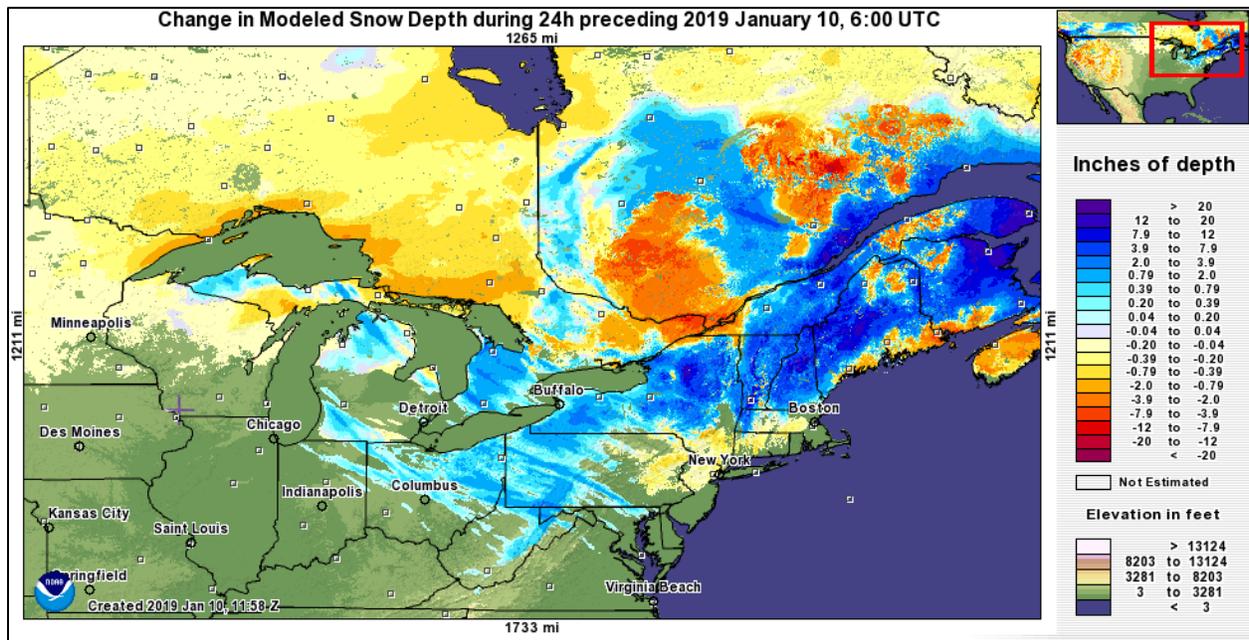
Water and Climate Update

January 10, 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.

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Precipitation	3	Short- and Long-Range Outlooks.....	17
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Heavy snow from the Great Lakes to northern New England



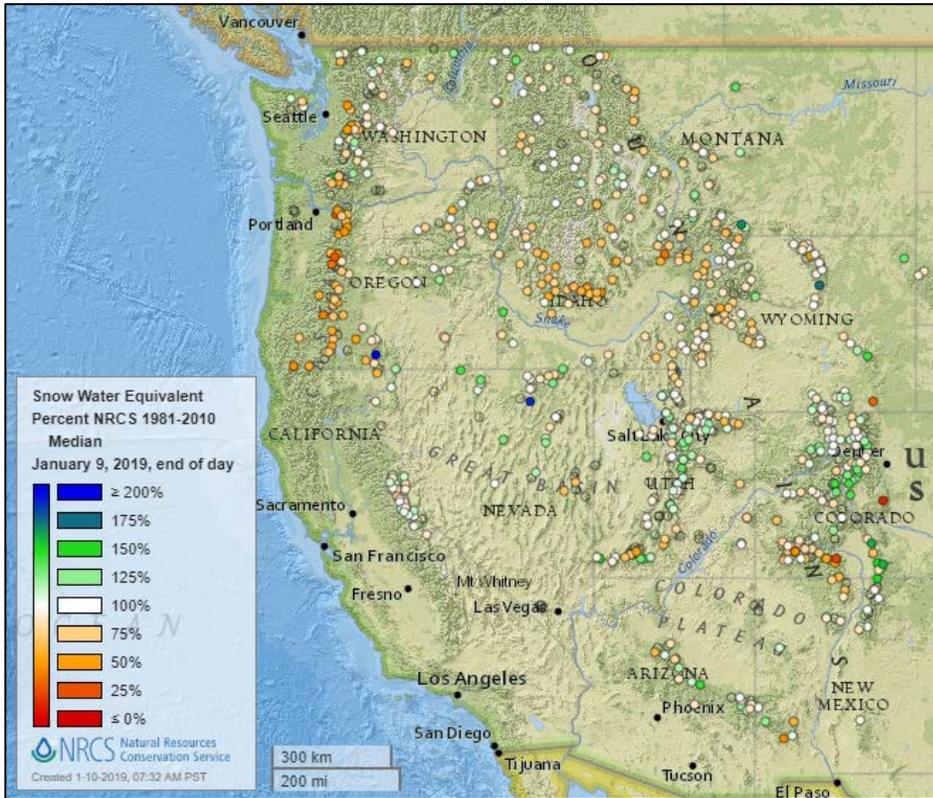
Snow fell from the Great Lakes to northern New England as the latest winter storm swept through the area. Lake-effect snow has dropped up to 6 inches thus far in the upper Midwest. From 7-12 inches of snow fell in upstate New York and northern New England, reaching as far south as West Virginia. Heavy snowfall is expected to continue into the weekend as another powerful storm takes aim on the region.

Related:

- [Lake-effect snow, Arctic air blast Midwest, Northeast](#) - ABC News
- [Heavy snow hits southern tier first](#) - WIVB-TV (NY)
- [Granite Staters deal with heavy, wet snow](#) – WMUR (NH)
- [Messy storm fouls commute, knocks out power to thousands](#) – New Hampshire Union Leader (NH)
- [Governor Cuomo Warns of Continuous Snowfall Over Several Days Across Upstate and Announces State Assets Ready to Deploy to Affected Regions](#) – KLAS (NY)

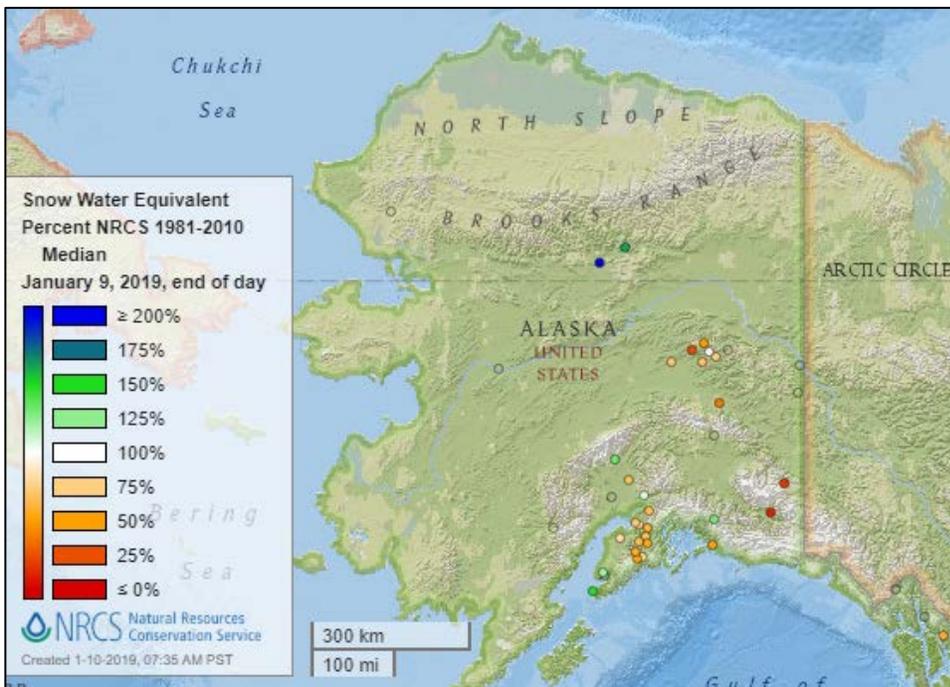
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



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

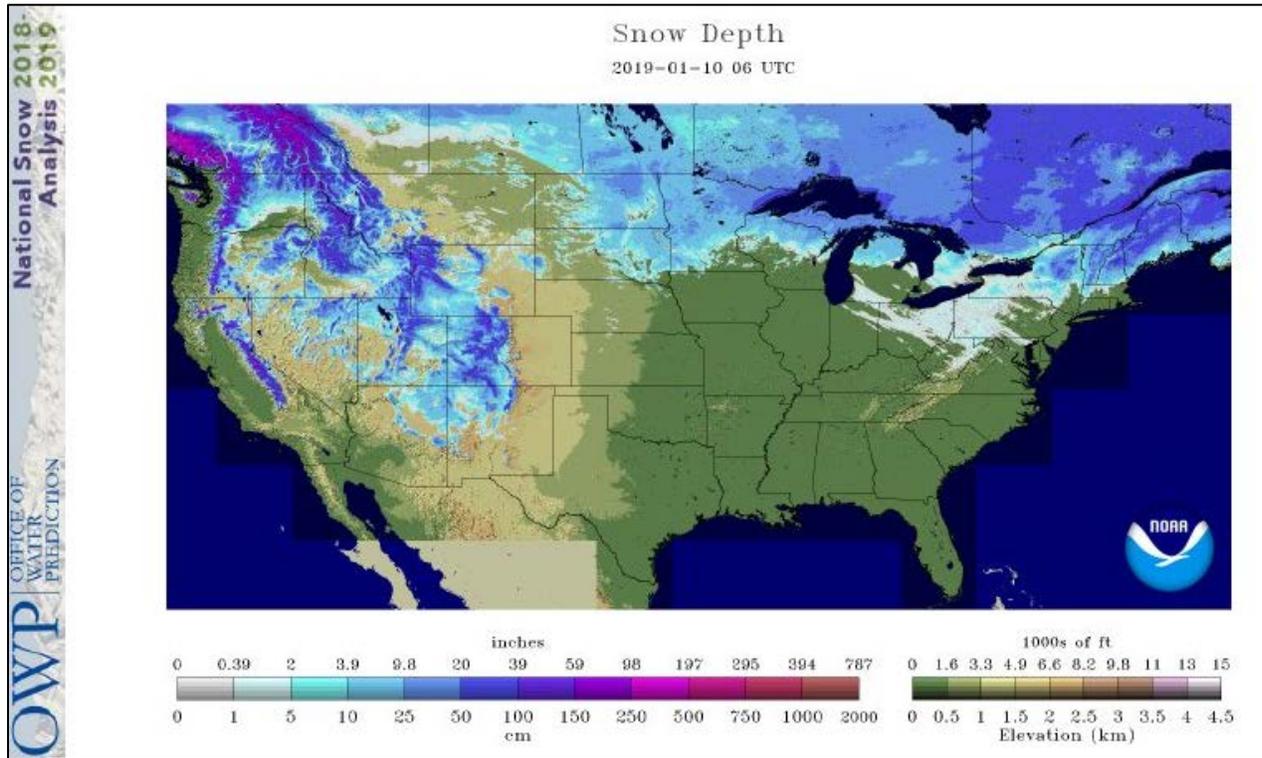
See also:
[Snow water equivalent values \(inches\) map](#)



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

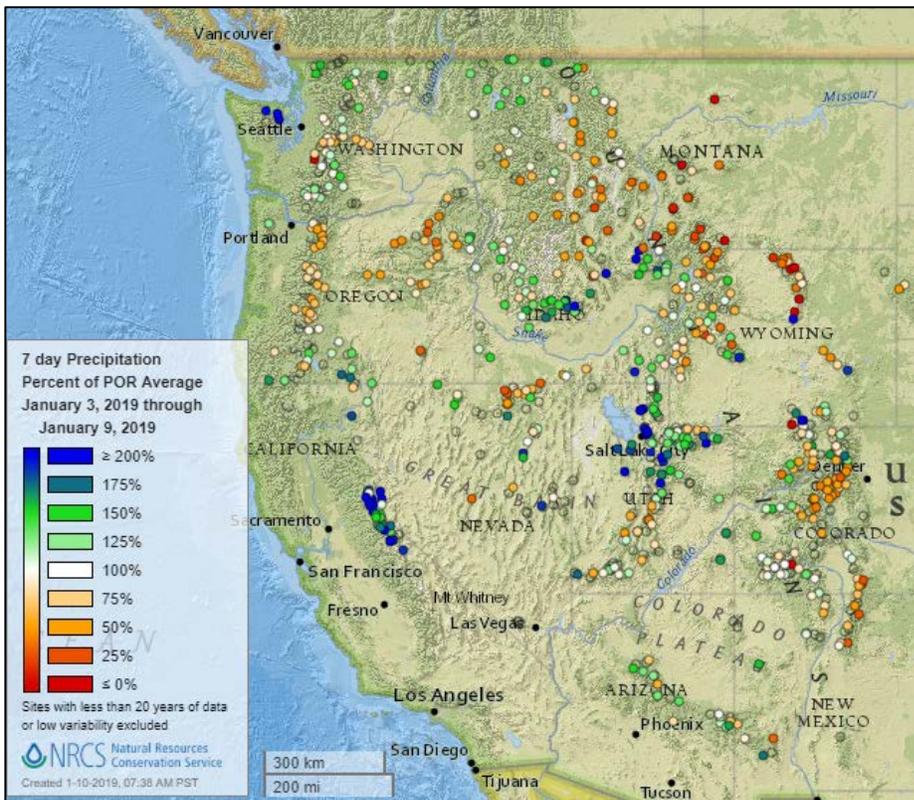
See also:
[Alaska snow water equivalent values \(inches\) map](#)

[Current Snow Depth](#), National Weather Service Snow Analysis



Precipitation

Last 7 Days, NRCS SNOTEL Network

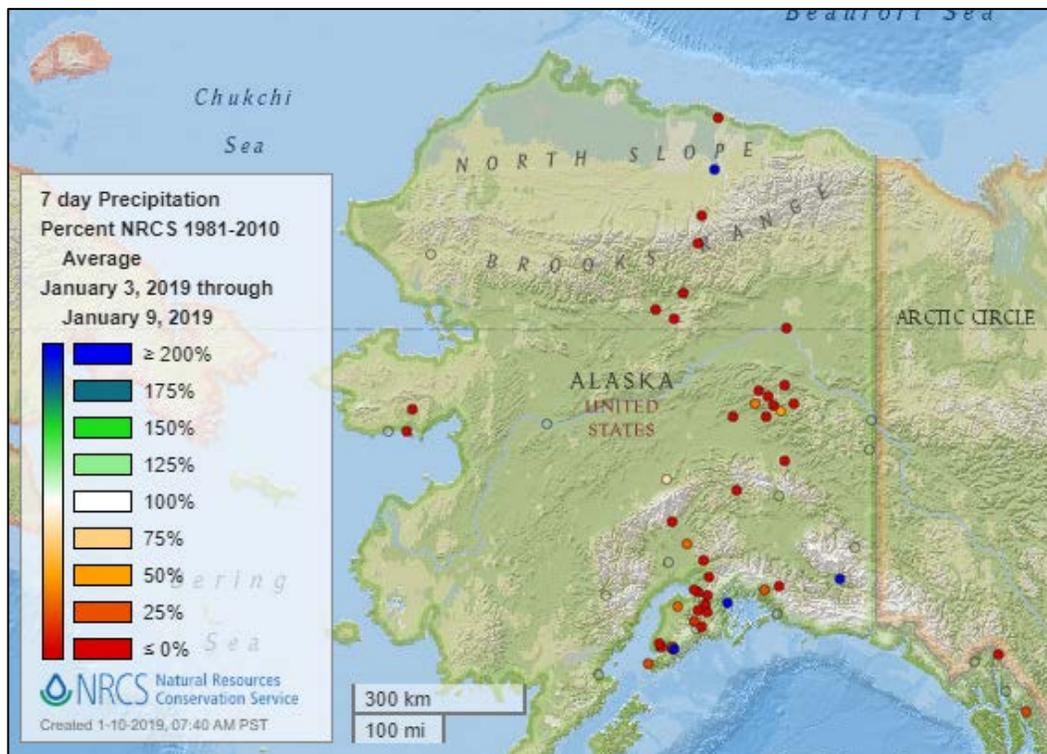


[7-day precipitation percent of average map](#)

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](#)



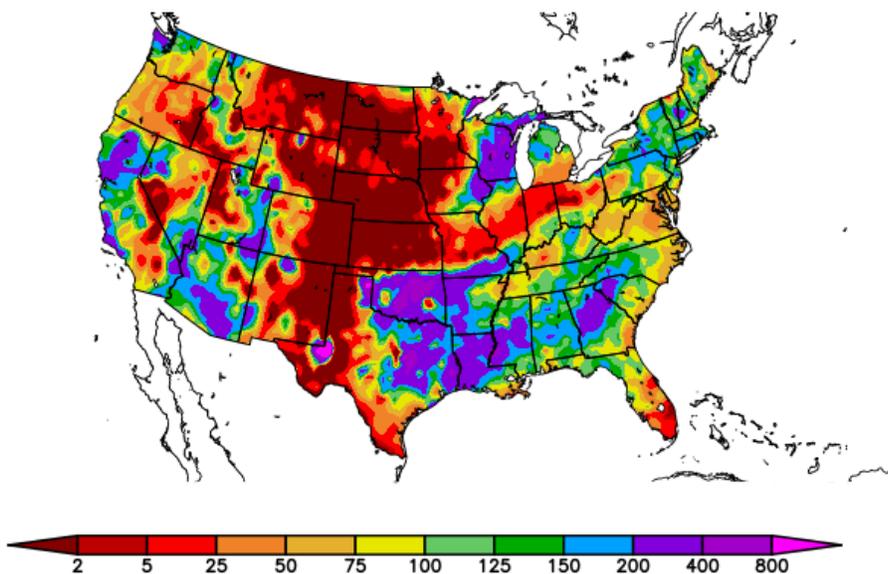
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
1/3/2019 – 1/9/2019



Generated 1/10/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

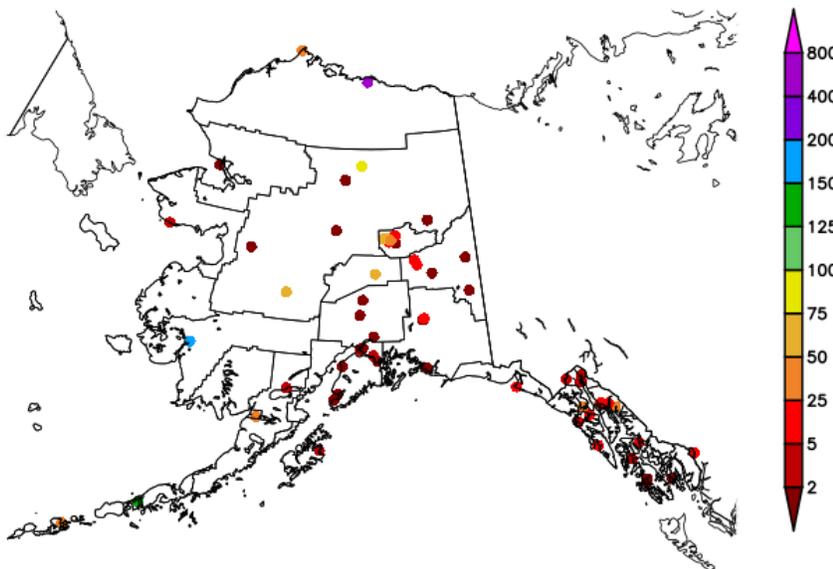
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
1/3/2019 – 1/9/2019



Generated 1/10/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

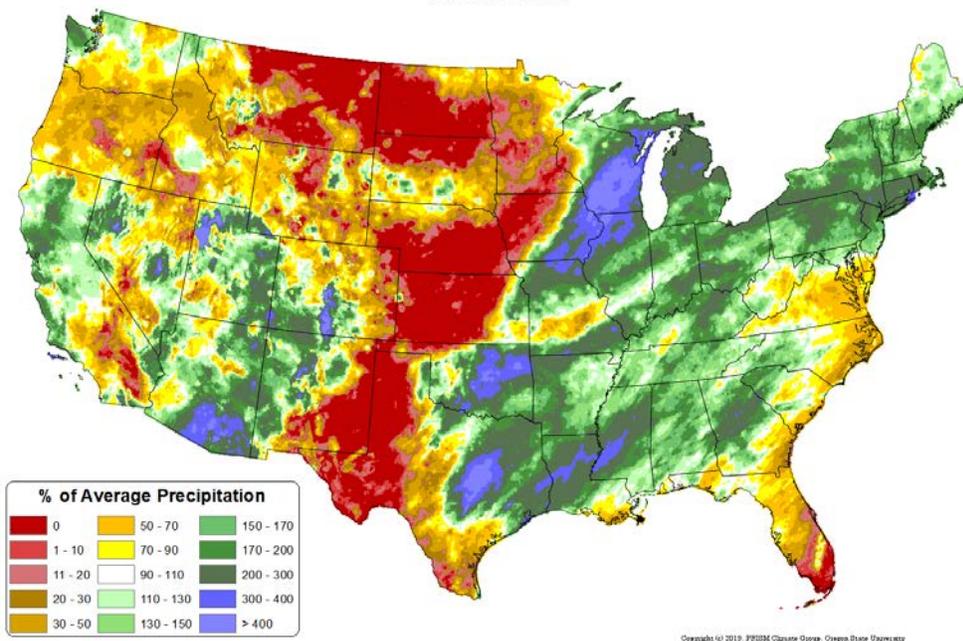
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Jan 2019 - 09 Jan 2019
Period ending 7 AM EST 09 Jan 2019
Base period: 1981-2010
(Map created 10 Jan 2019)

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

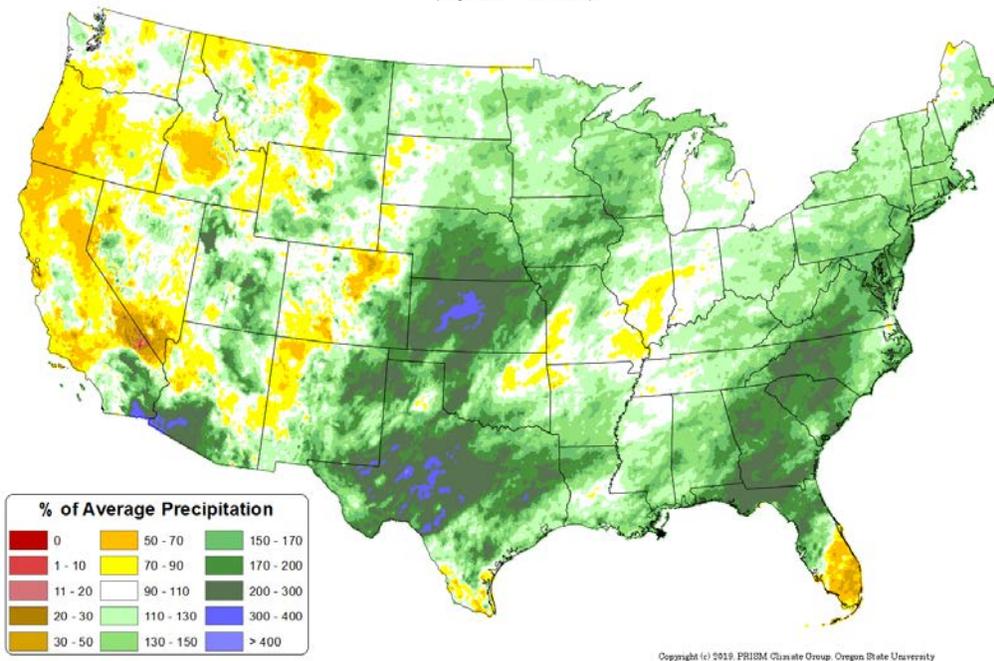


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

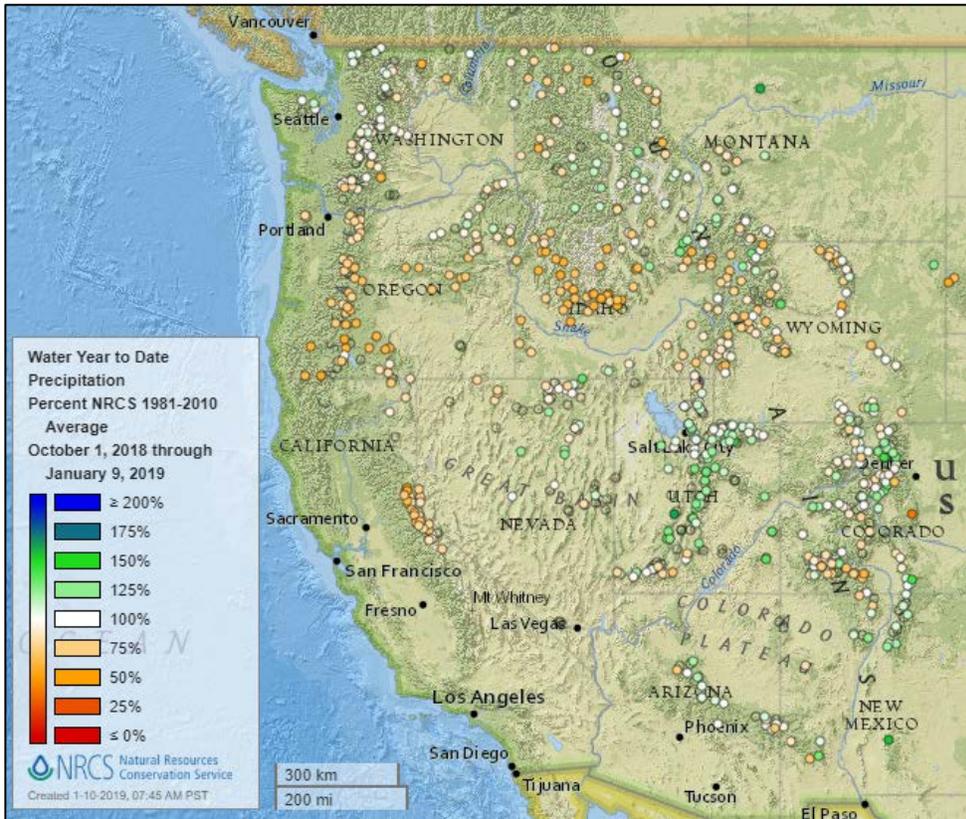
Source: PRISM

[October through December 2018 total precipitation percent of average map](#)

Total Precipitation Anomaly: Oct 2018 - Dec 2018
Period ending 7 AM EST 31 Dec 2018
Base period: 1981-2010
(Map created 02 Jan 2019)

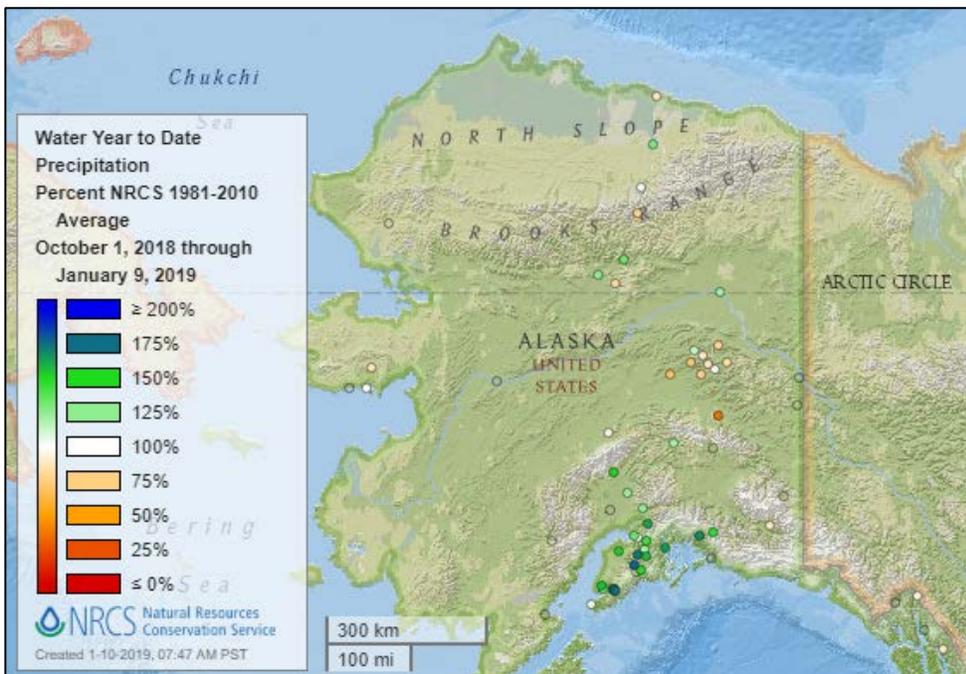


Water Year-to-Date, NRCS SNOTEL Network



[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

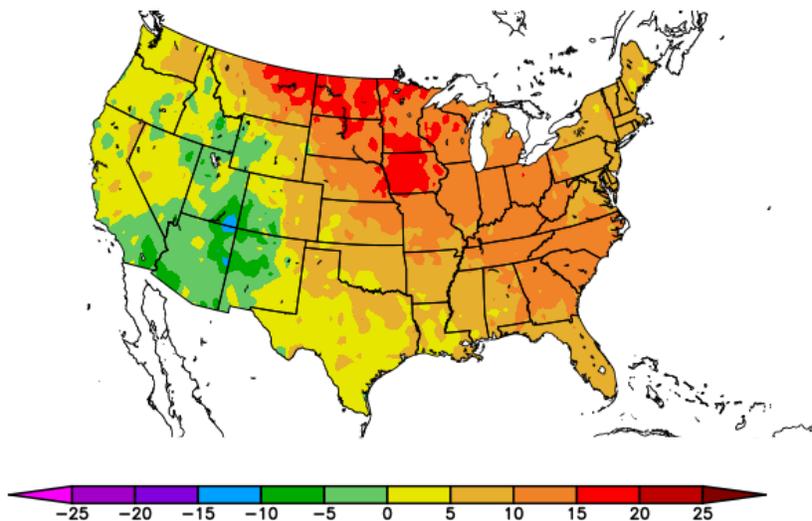
Last 7 Days, National Weather Service (NWS) Networks

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)
1/3/2019 – 1/9/2019



Generated 1/10/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

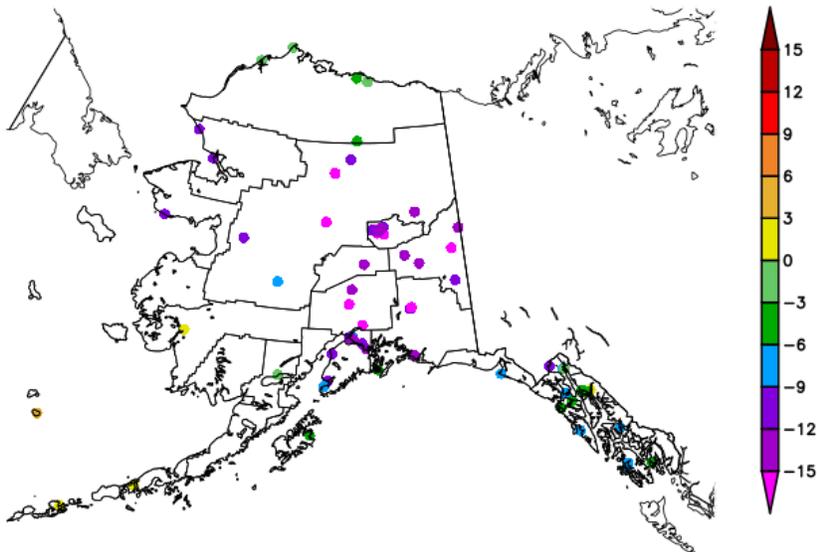
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
1/3/2019 – 1/9/2019



Generated 1/10/2019 at HPRCC using provisional data.

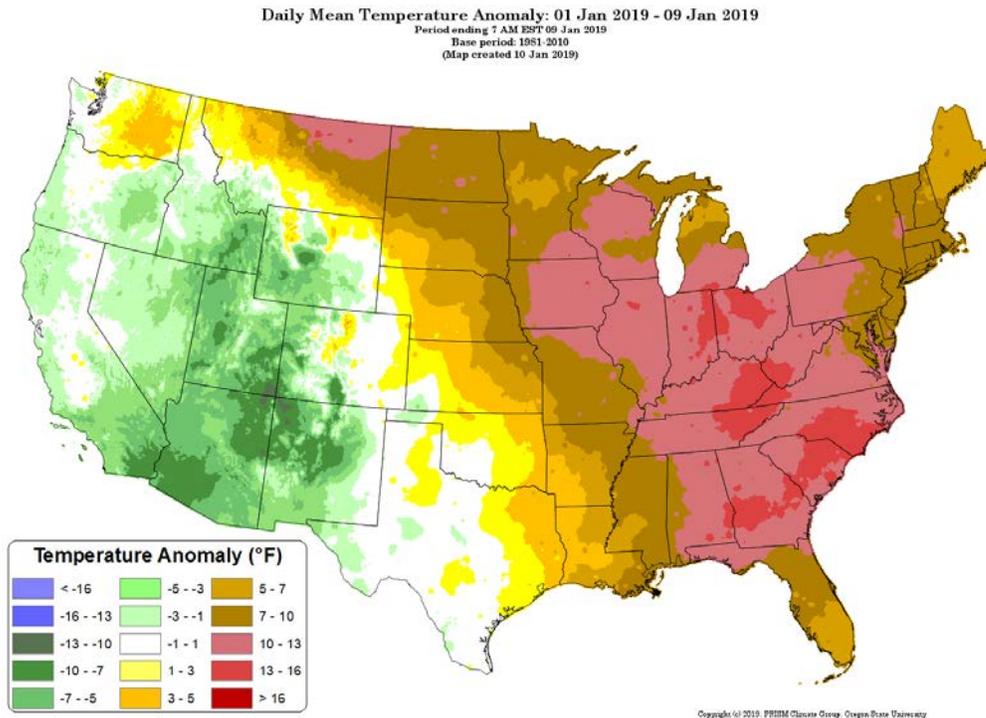
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

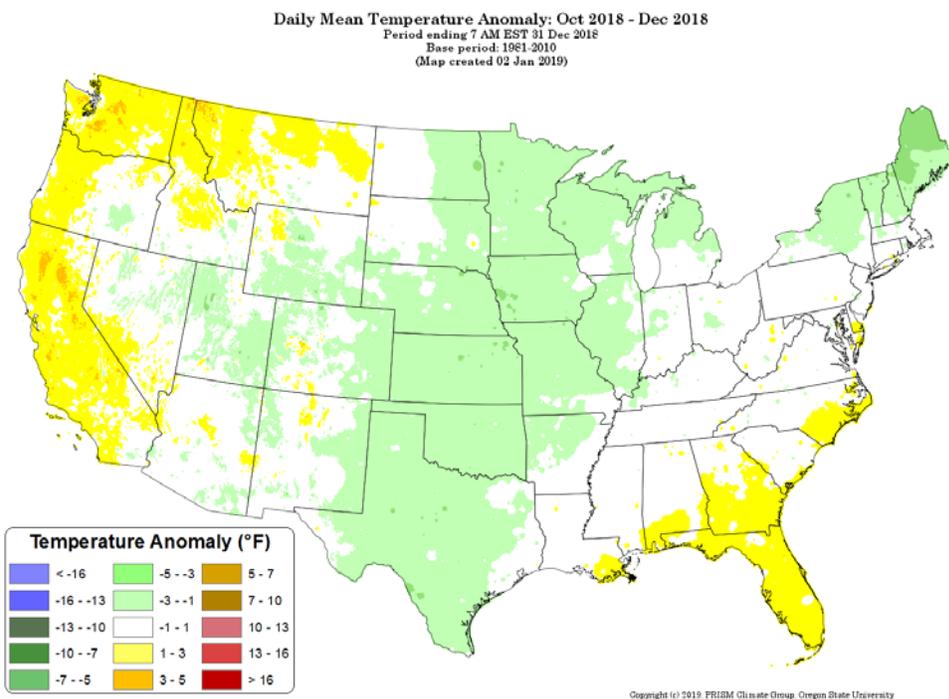
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

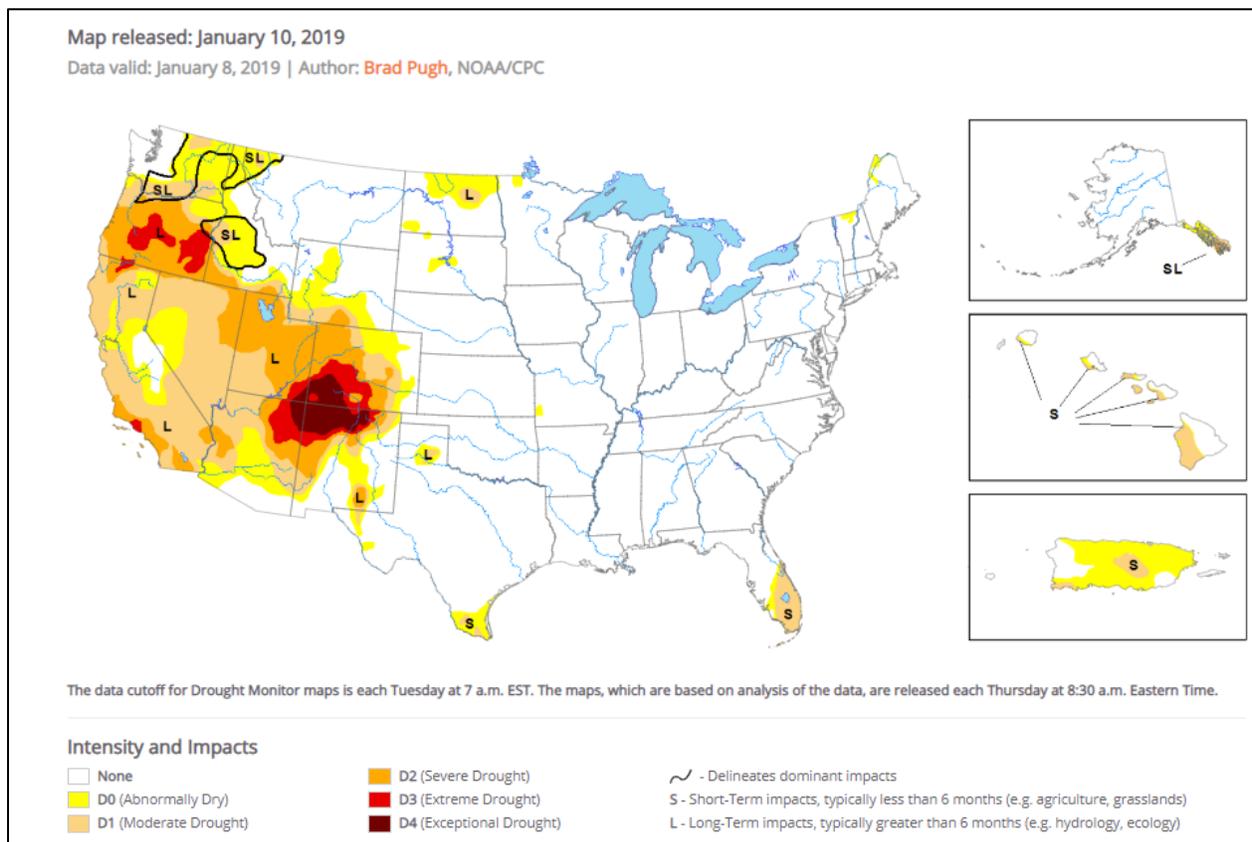
[October through December 2018 daily mean temperature anomaly map](#)



Drought

[U.S. Drought Monitor](#) Select map below.

[U.S. Drought Portal](#) Comprehensive drought resource.



Current [National Drought Summary](#), January 10, 2019

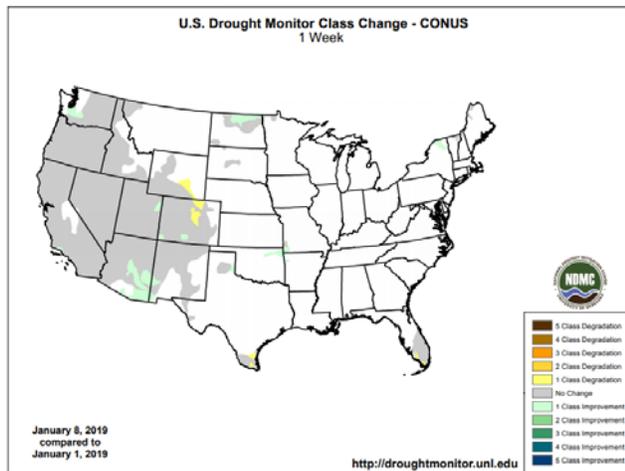
Author: Brad Pugh, NOAA/CPC

“A strong upper-level low resulted in surface low development along the western Gulf Coast on January 3. This low pressure system then tracked northeast to the mid-Atlantic by January 5, maintaining excessive wetness across much of the lower Mississippi Valley and Southeast. However, southern Florida remained mostly dry as short-term dryness worsened. Onshore flow returned to the West Coast by January 5, resulting in rain and high-elevation snow. Although widespread precipitation occurred across coastal areas of Washington, Oregon, and northern California, 7-day amounts averaged below normal north of Eureka, California. Above-average precipitation amounts were observed across the southern half of California and the Southwest. According to the Natural Resources Conservation Service (WYTD), snow water equivalent (as of January 7) is at or slightly below normal across Arizona and New Mexico basin-wide for the water year. As an area of upper-level low pressure shifted east across the western U.S., a surface low and associated warm front crossed the Midwest and Great Lakes on January 7. The heaviest weekly amounts (more than 1 inch, liquid equivalent) were recorded from Wisconsin north to the upper peninsula of Michigan.”

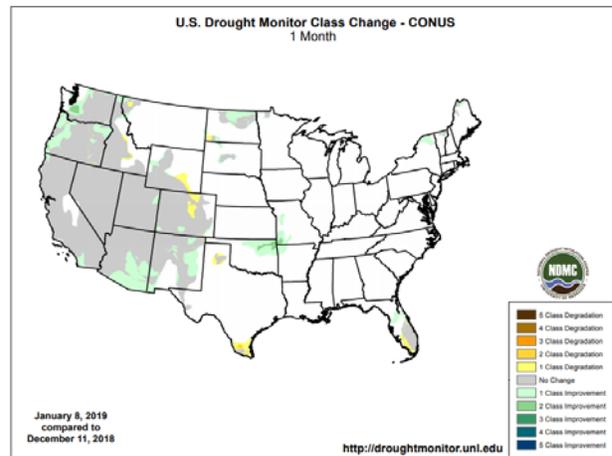
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

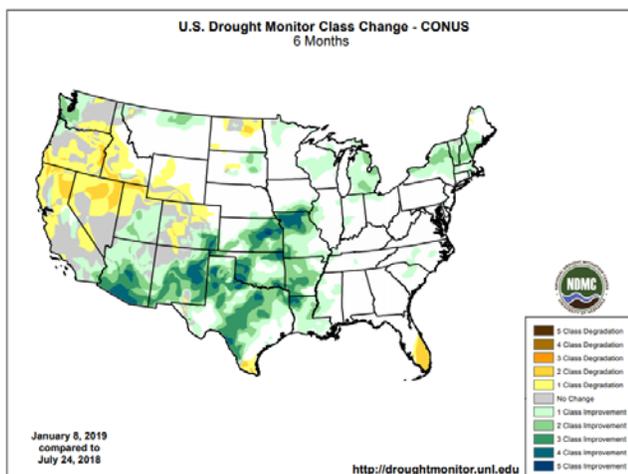
1 Week



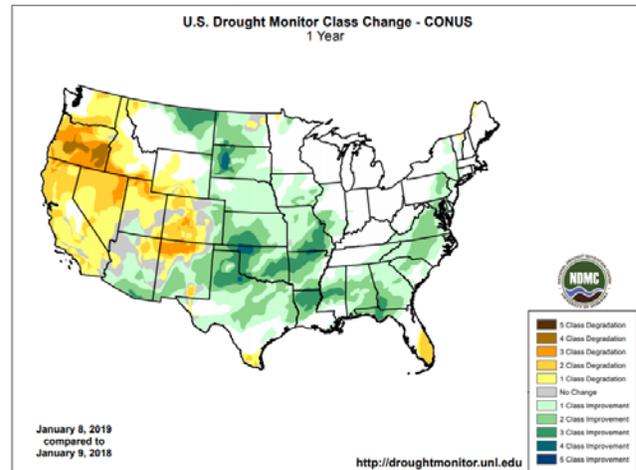
1 Month



6 Months



1 Year



Changes in drought conditions over the last 12 months

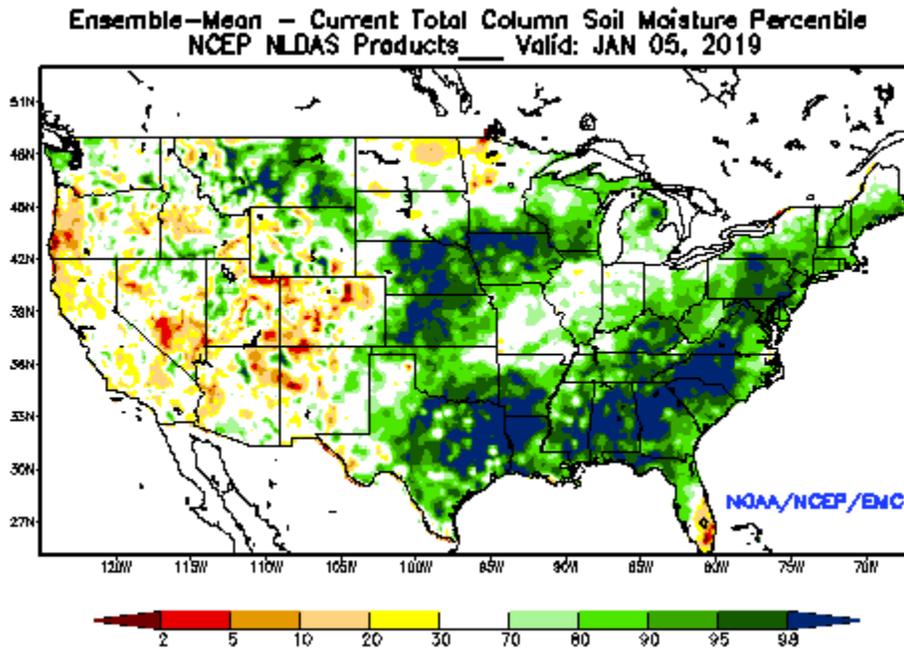
Highlighted Drought Resources

- [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](#)

Other Climatic and Water Supply Indicators

Soil Moisture

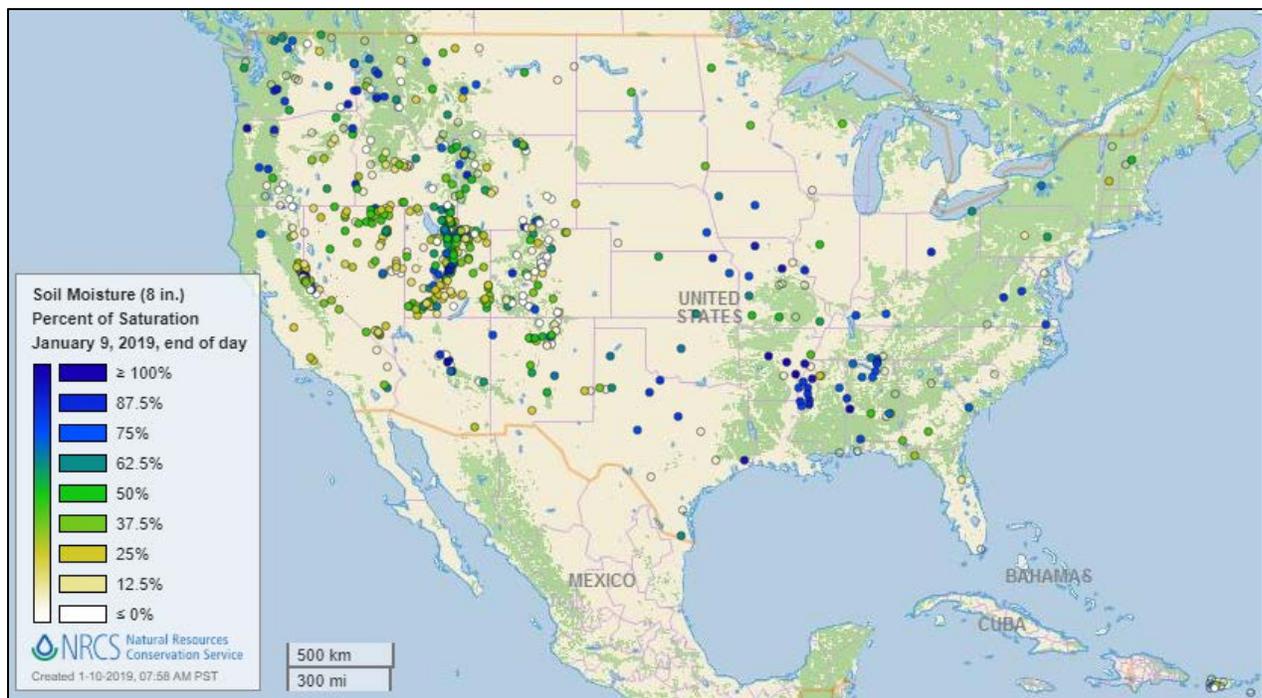
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of January 5, 2019

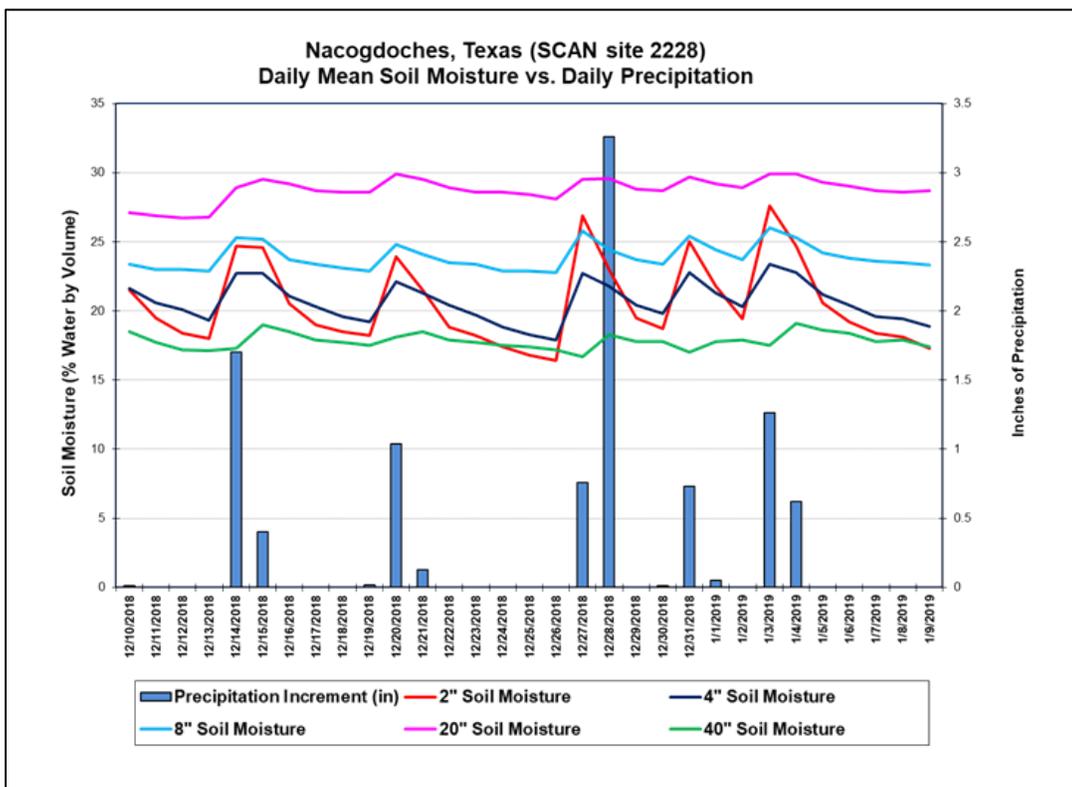
NEW! Soil Moisture Percent of Saturation

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



Soil Moisture Data

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



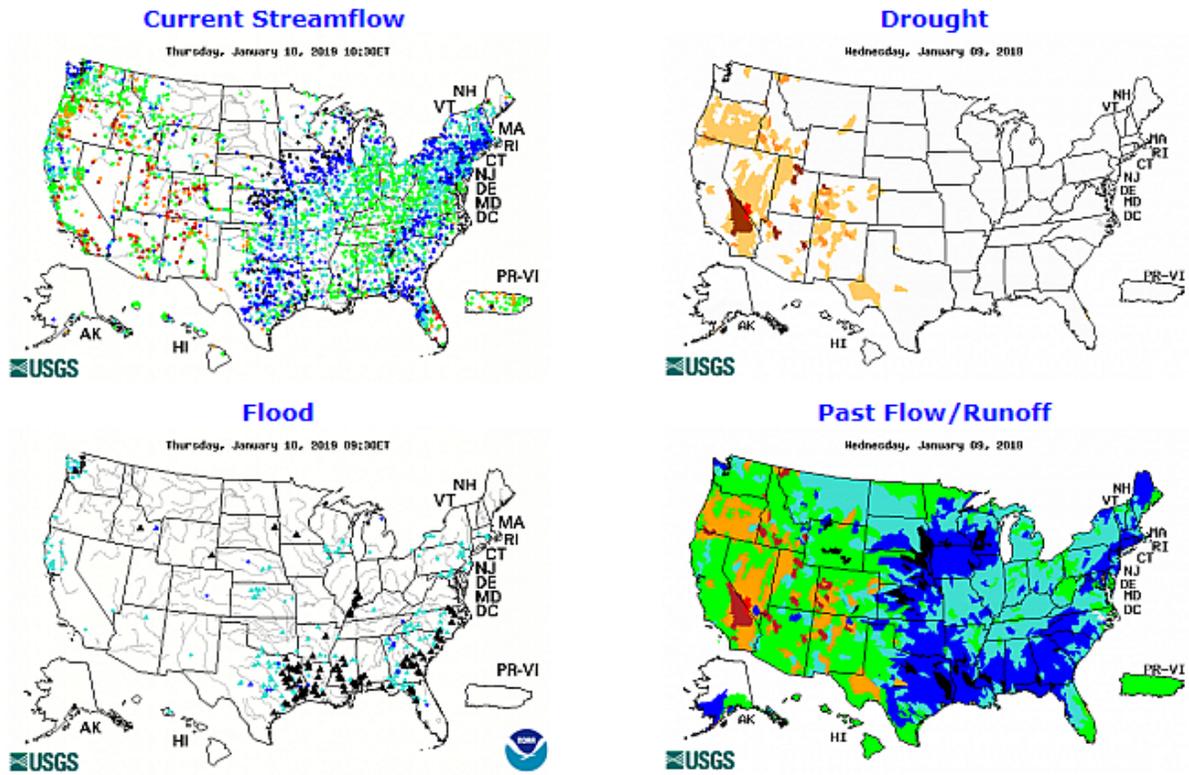
This chart shows the precipitation and soil moisture for the last 30 days at the [Nacogdoches SCAN site](#) in Texas. The Nacogdoches site was installed on April 26, 2018 and is one of the newest sites in the Soil Climate Analysis Network. From January 3-4, 2019, accumulated precipitation totaled 1.88 inches with an increase in soil moisture at all sensor levels.

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

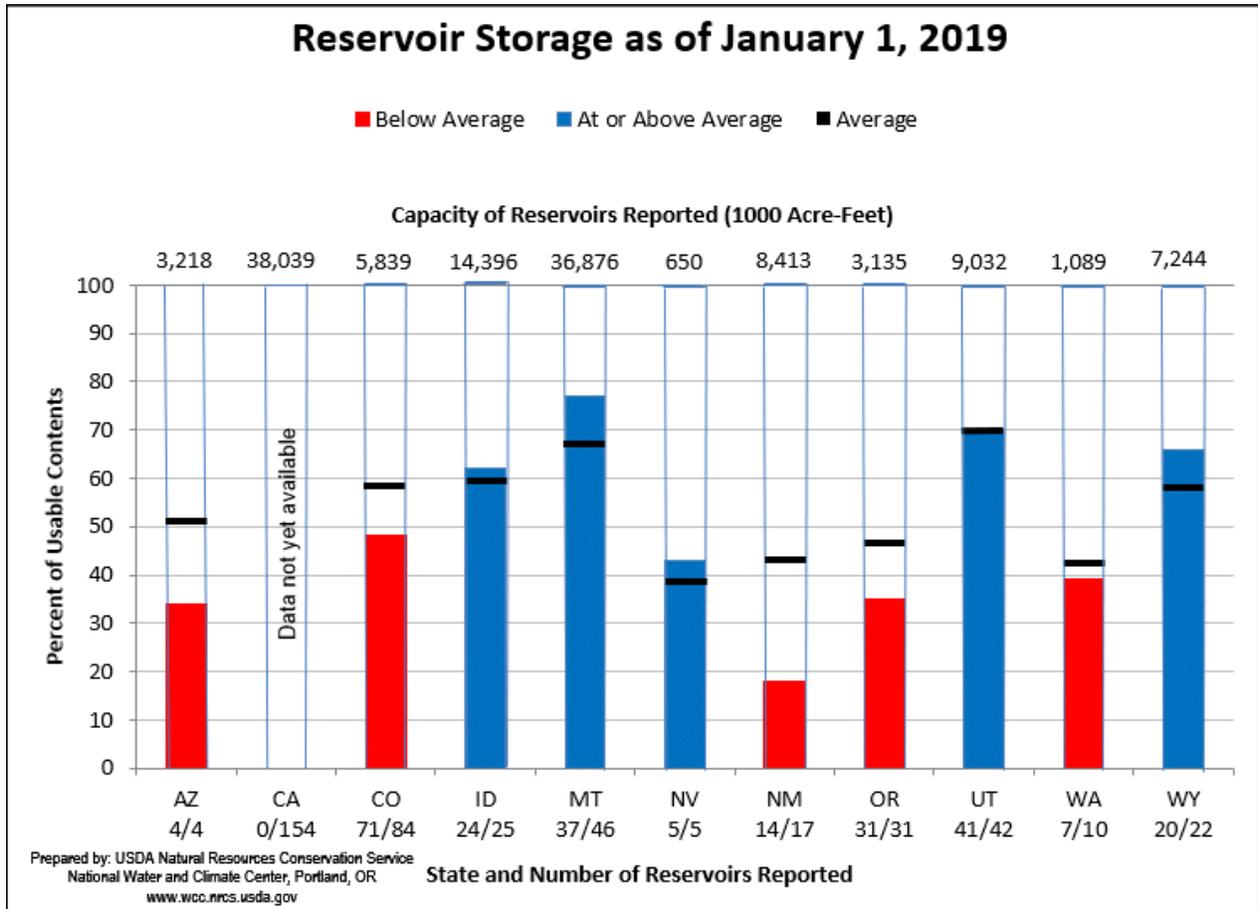


[WaterWatch: Streamflow, drought, flood, and runoff conditions](#)

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



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

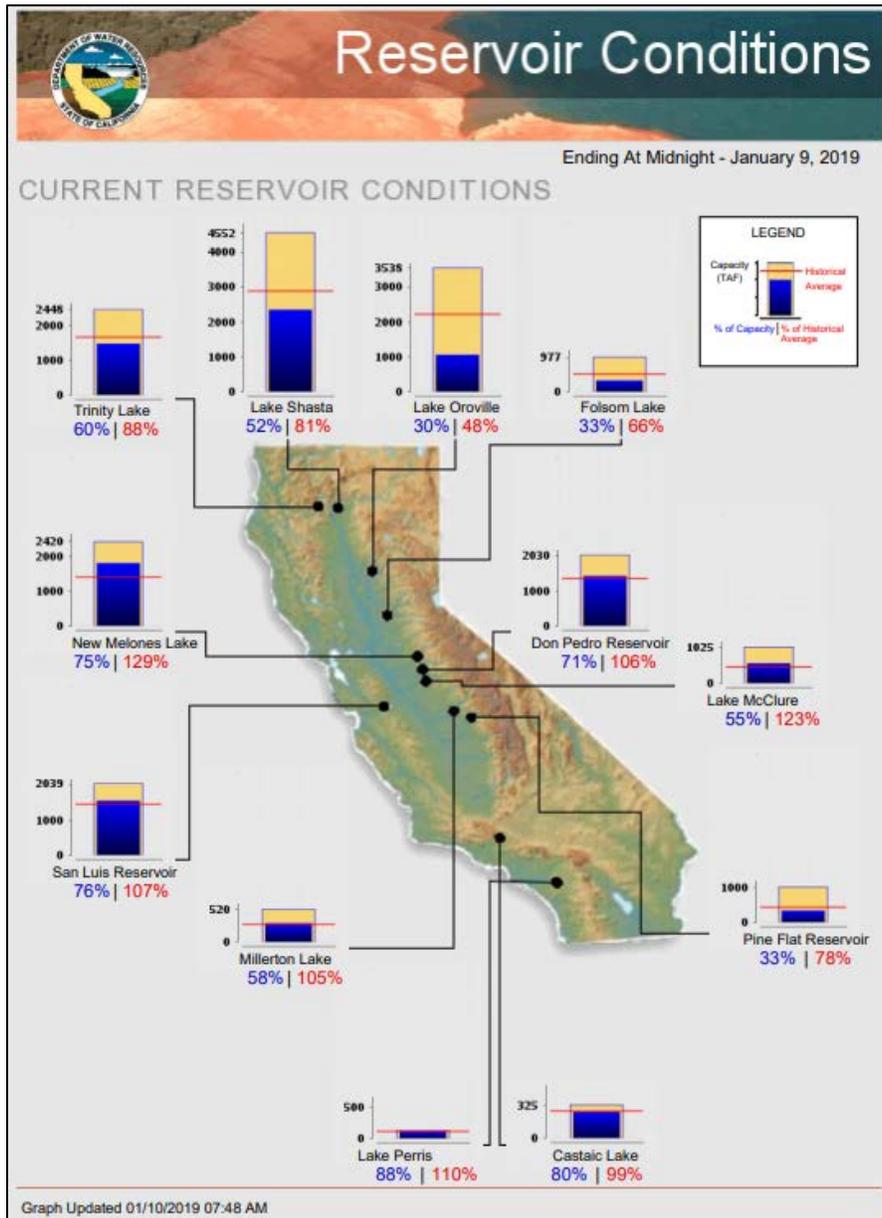
Hydromet Tea Cup Reservoir Depictions

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

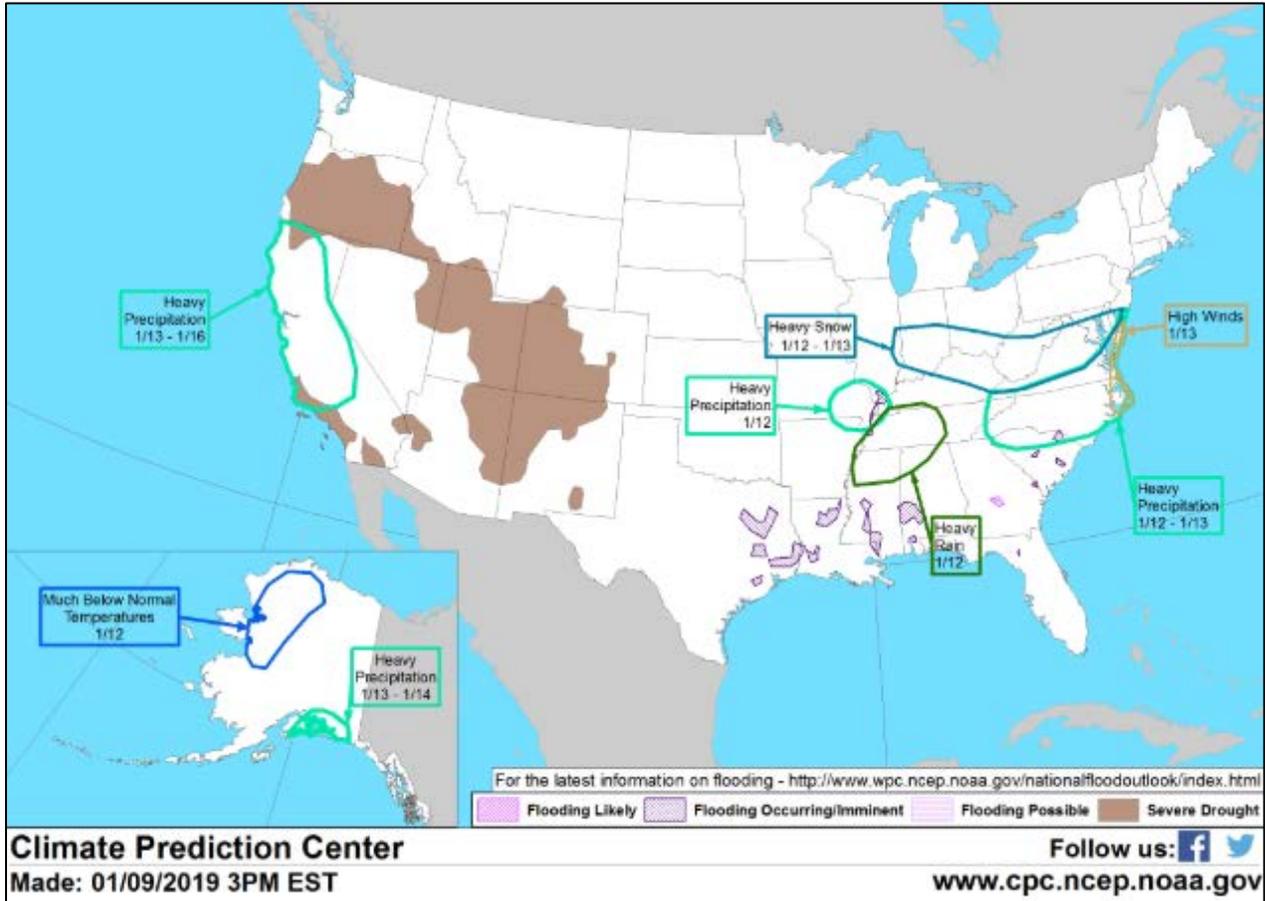


[Current California Reservoir Conditions](#)

Short- and Long-Range Outlooks

Weather Hazards Outlook: [January 12 – January 16, 2019](#)

Source: Climate Prediction Center

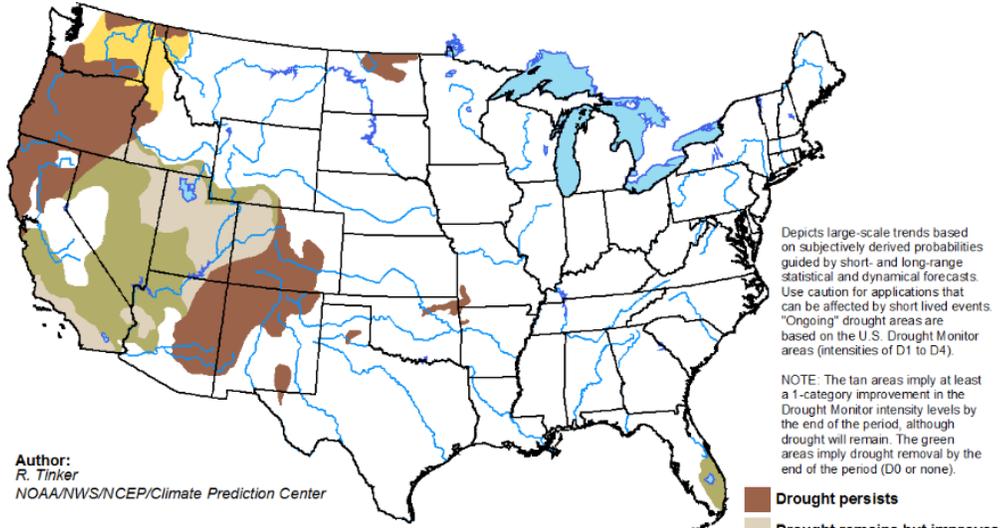


Seasonal Drought Outlook: [December 20, 2018 – March 31, 2019](#)

Source: National Weather Service

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

Valid for December 20, 2018 - March 31, 2019
Released December 20, 2018



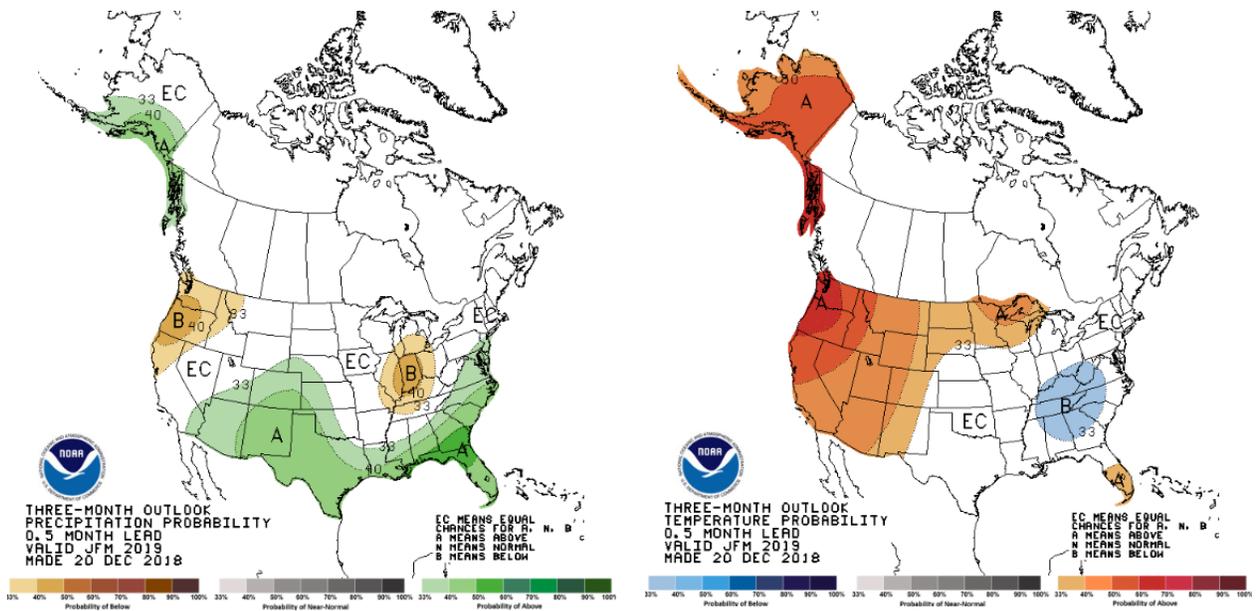
<http://go.usa.gov/3eZ73>

Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[January-February-March \(JFM\) 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](#).