



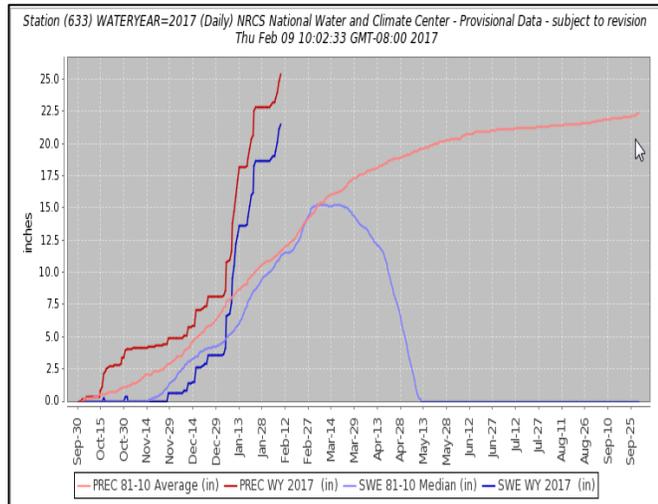
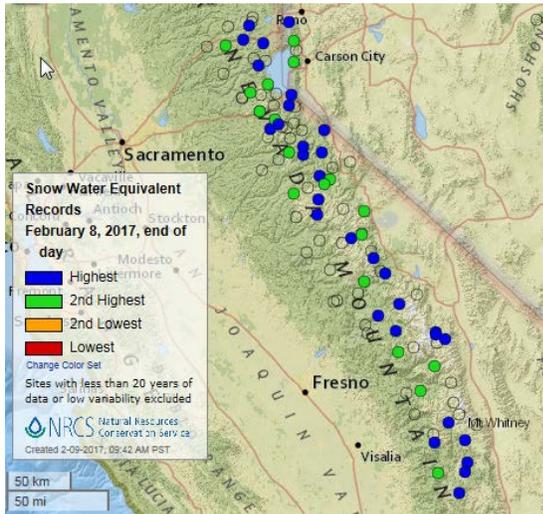
Water and Climate Update

February 9, 2017

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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Snowpack breaks records in the Sierra Nevada



The Sierra Nevada have been in the crosshairs of a series of storms since the beginning of January. Many SNOTEL stations and California Department of Water Resources automated stations have reported new records or near-record snow water equivalent for the month.

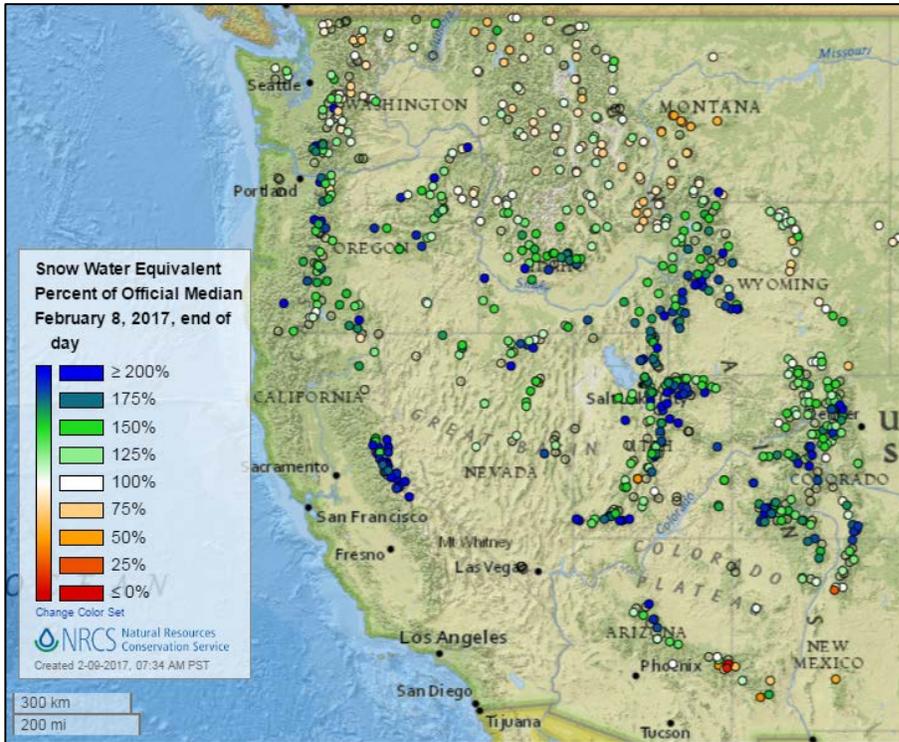
Snow Water Equivalent at the [Monitor Pass SNOTEL site 633](#) just south of Lake Tahoe is shown in the graph on the right. The current snowpack is well above the annual average peak for this time of year, and shows the dramatic snowpack increase during the last month.

More News:

- [Drought-easing California snow heaviest in 22 years](#)
- [Sierra Snowpack on Track for the Record Books](#)
- [Snowpack Shows Big One-Month Gain](#)

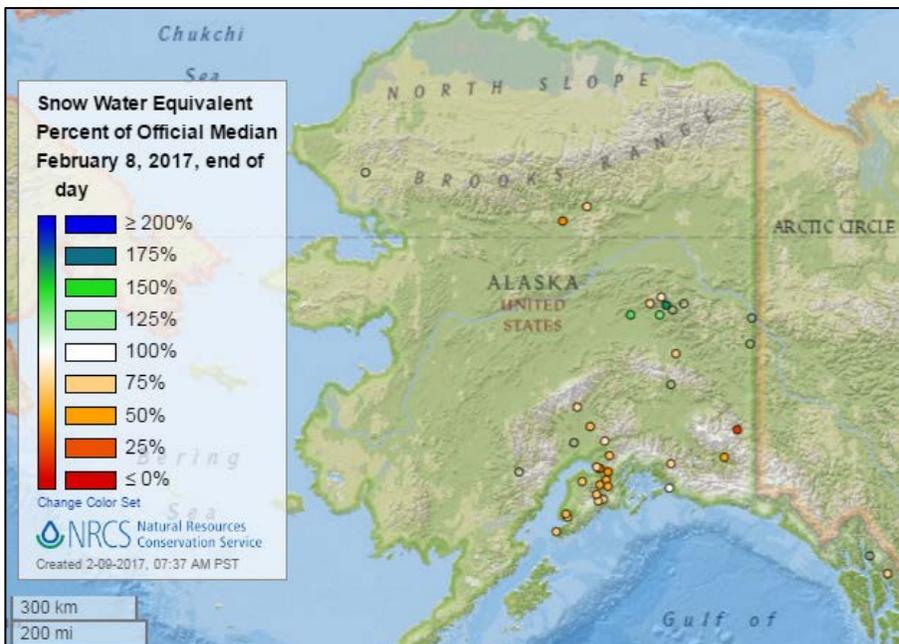
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



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

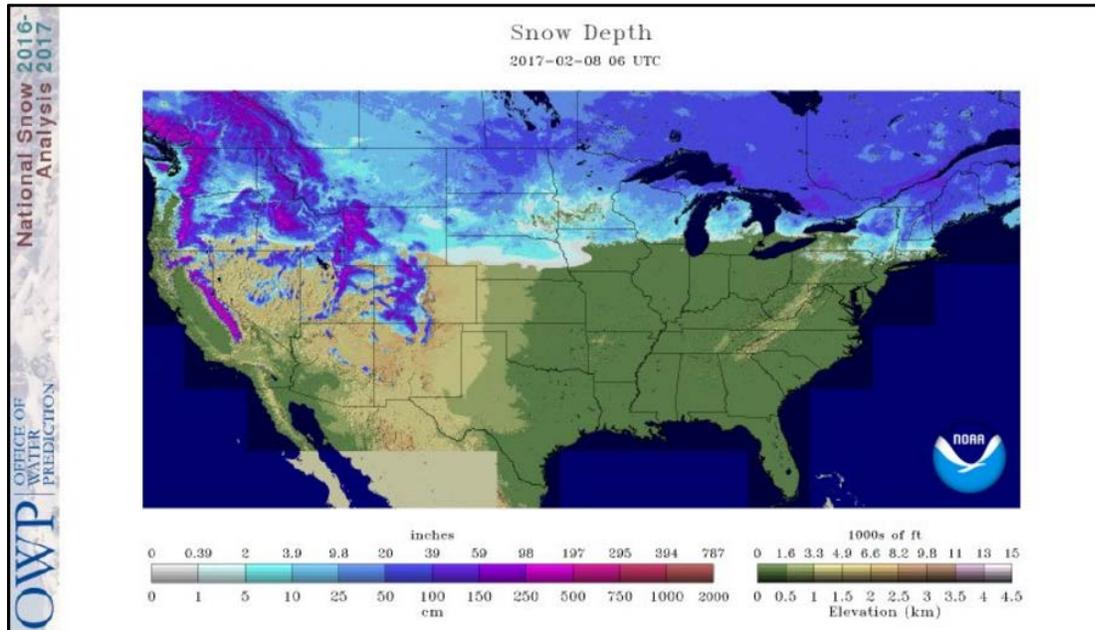
See also:
[Snow water equivalent values \(inches\) map](#)



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

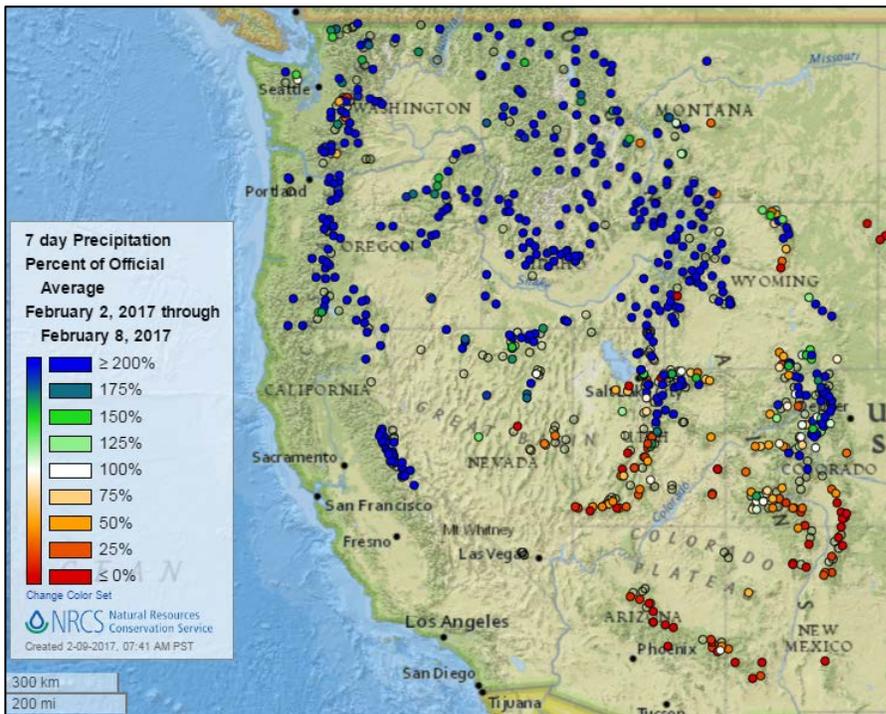
See also:
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service (NWS) Networks



Precipitation

Last 7 Days, Western Mountain Sites (NRCS SNOTEL Network)



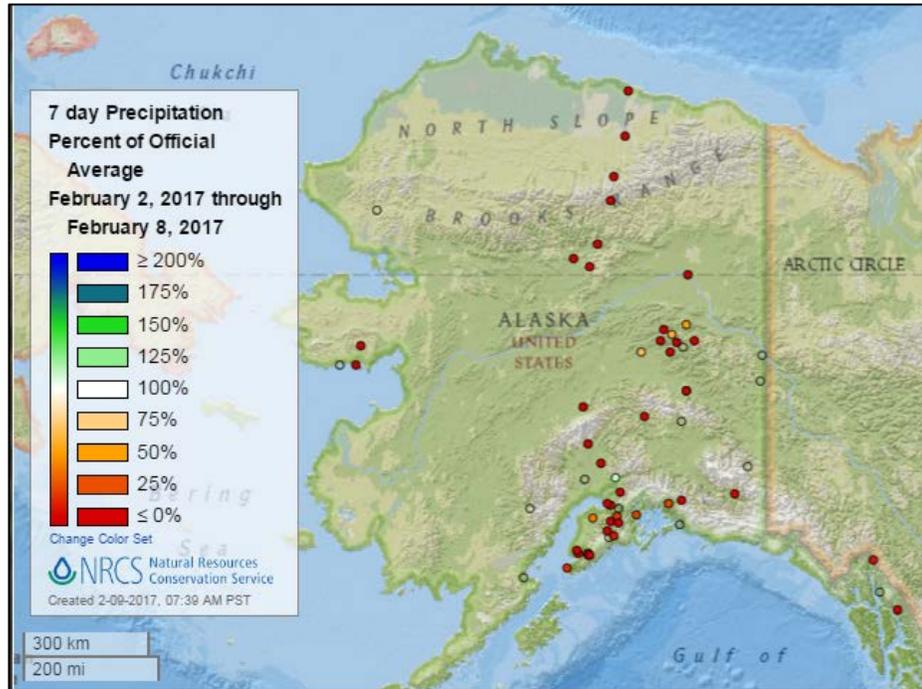
[7-day precipitation percent of average map](#)

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

Water and Climate Update

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

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



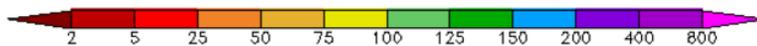
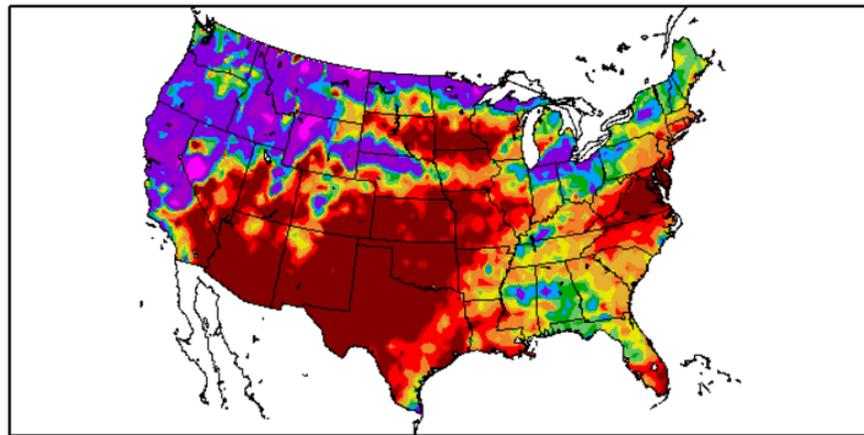
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation percent of normal map](#) for the continental U.S.

Percent of Normal Precipitation (%)
2/2/2017 – 2/8/2017

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

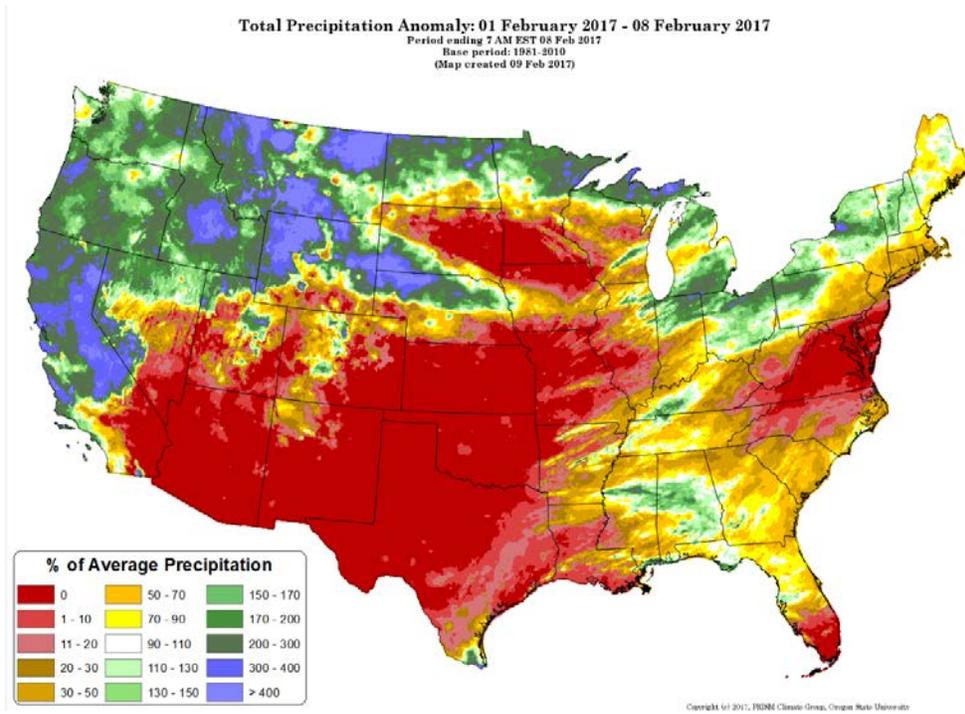


Generated 2/9/2017 at HPRCC using provisional data.

Regional Climate Centers

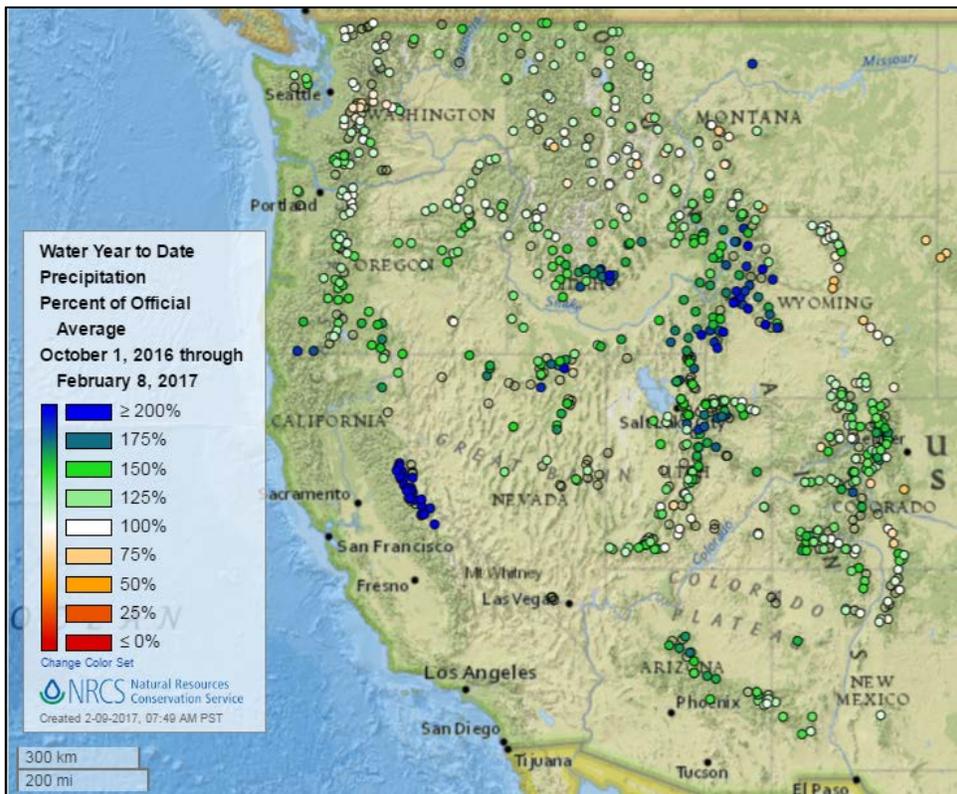
Month-to-Date, All Available Data Including SNOTEL and NWS Networks

Source: PRISM



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

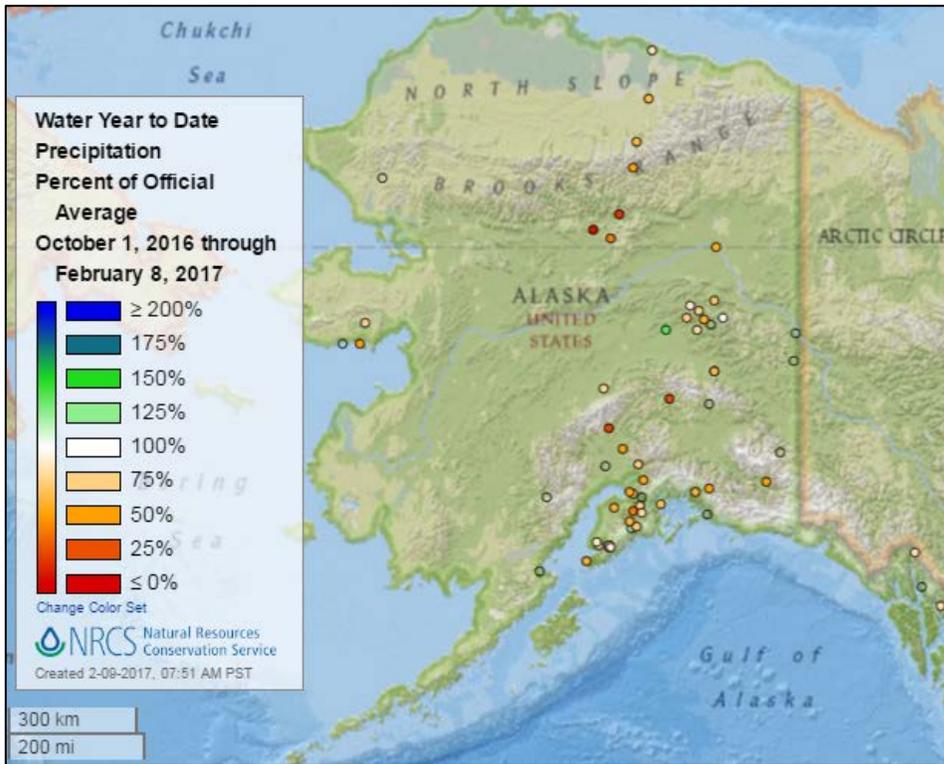
Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



[2017 water year-to-date precipitation percent of average map](#)

[See also: 2017 water year-to-date precipitation values \(inches\)](#)

Water and Climate Update



[Alaska 2017 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2017 water year-to-date precipitation values \(inches\) map](#)

Temperature

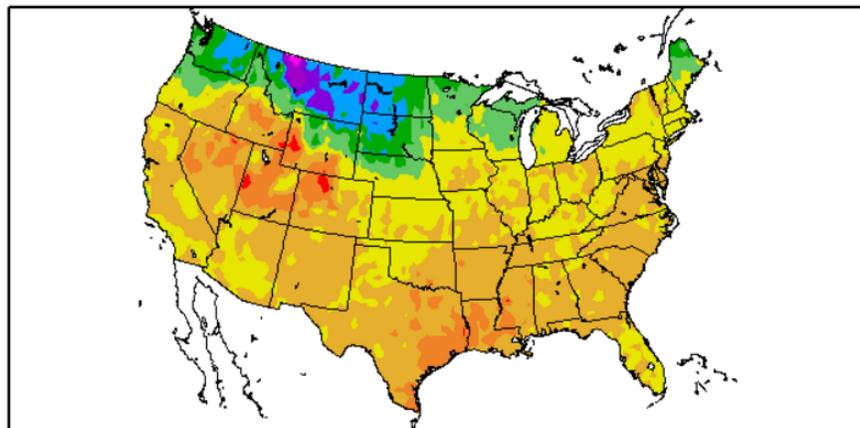
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the continental U.S.

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

Departure from Normal Temperature (F)
2/2/2017 – 2/8/2017



Generated 2/9/2017 at HPRCC using provisional data.

Regional Climate Centers

Water and Climate Update

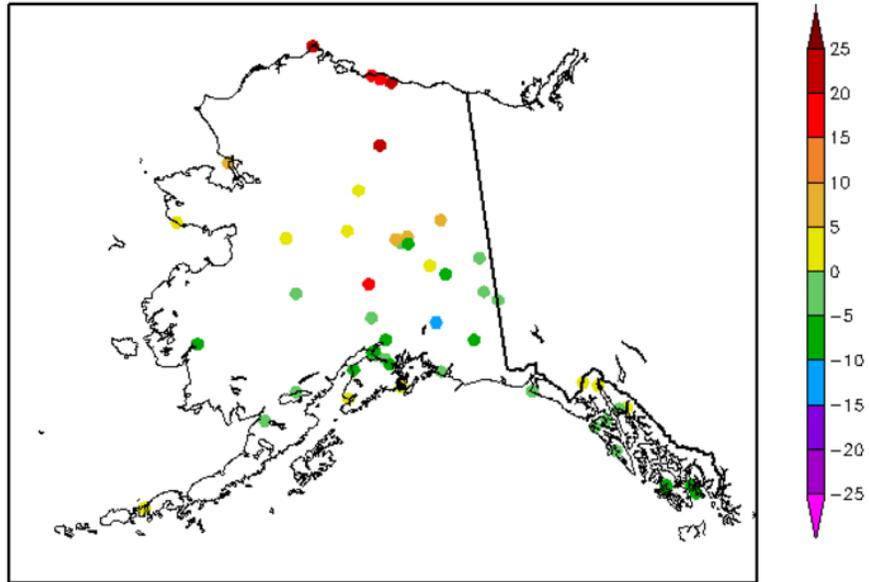
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

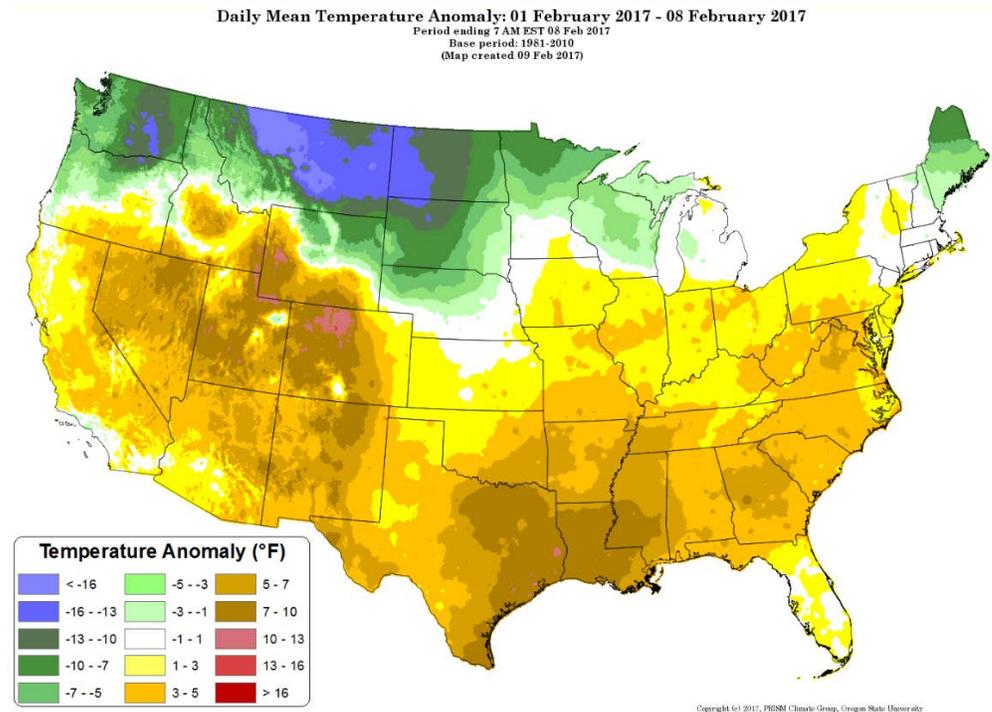
Departure from Normal Temperature (F) 2/2/2017 - 2/8/2017

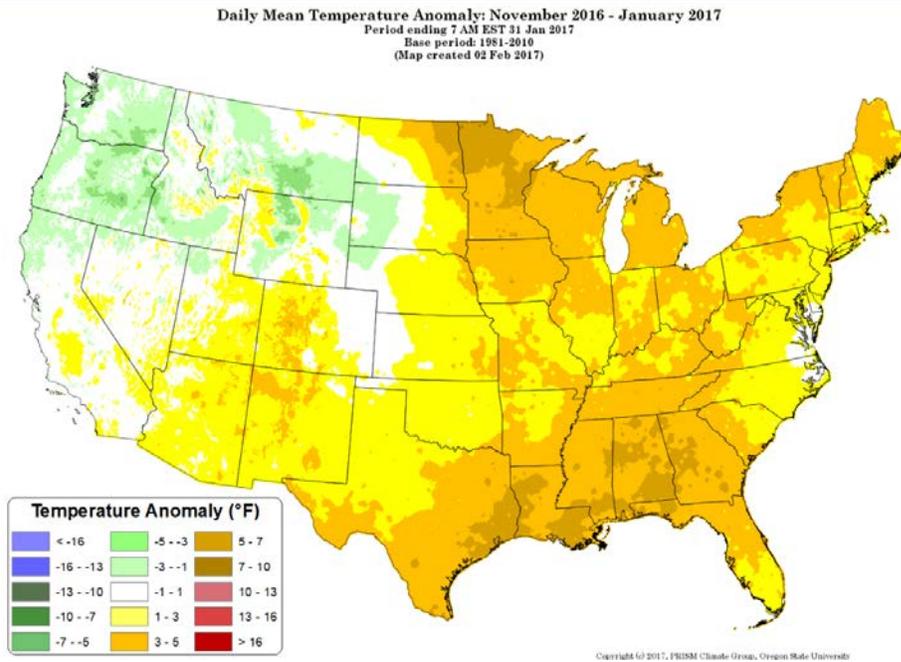


Month-to-Date, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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



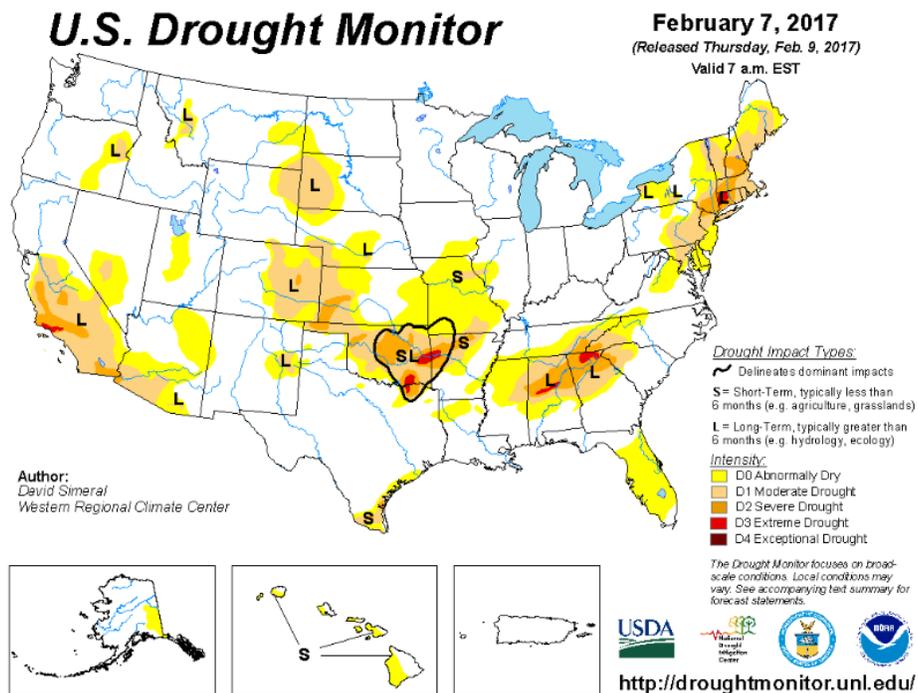


[November 2016 through January 2017 daily mean temperature anomaly map](#)

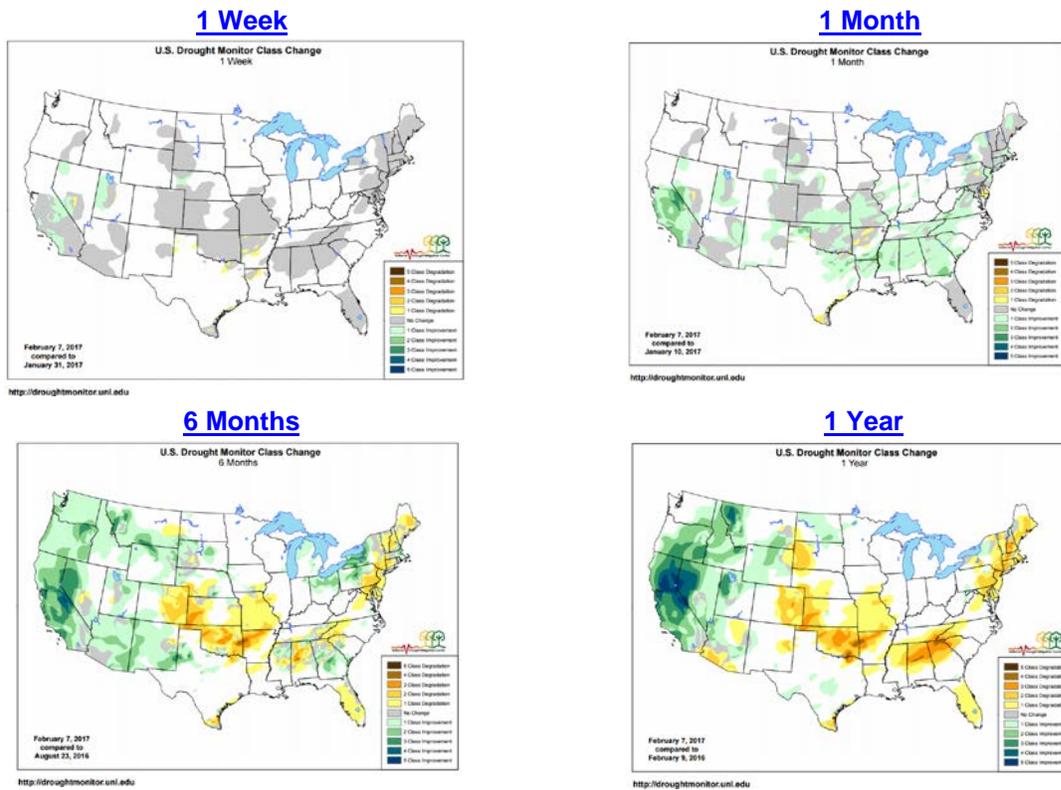
Drought

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

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



Changes in Drought Monitor Categories over Time



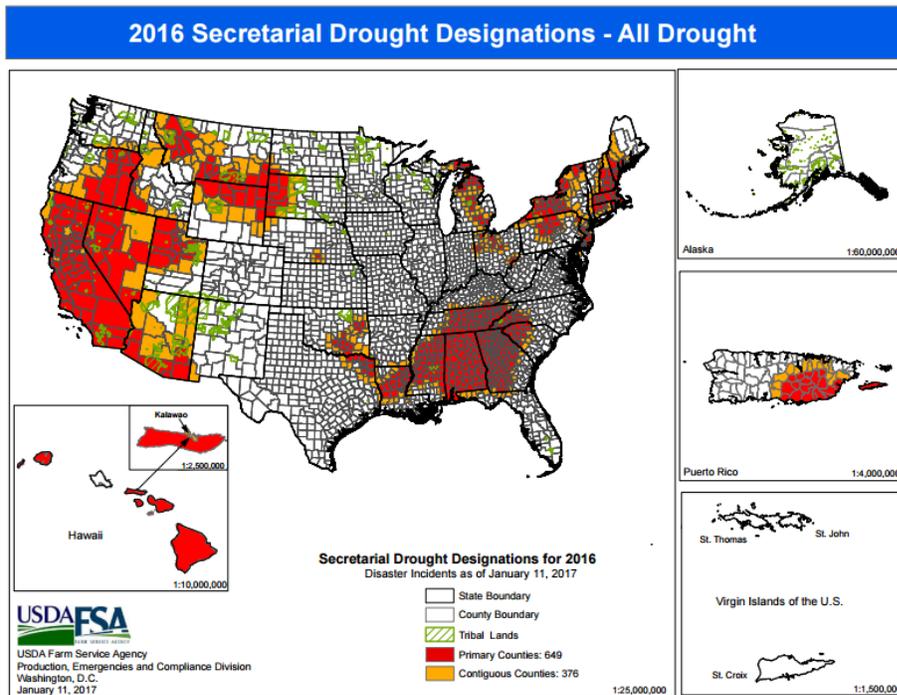
[Changes in drought conditions over the last 12 months](#)

Current National [Drought Summary](#), February 7, 2017

Authors: David Simeral, Western Regional Climate Center

“This U.S. Drought Monitor week saw a very active pattern in parts of the western U.S. as a series of Pacific storms brought significant rain to coastal areas of central and northern California, Oregon, and Washington while heavy snows blanketed higher elevations of the Sierra, Cascades, and northern Rockies. Continued snowfall this week across the Sierra is making a positive impact on the overall drought situation where the snowpack statewide is 176% of normal according to the California Cooperative Snow Surveys. Most of the major reservoirs in California are currently above historical averages. Some lingering hydrologic impacts (low reservoir levels and below-normal groundwater levels) are still present in portions of the central Coast, southern California, San Joaquin Valley, and the western foothills of the Sierra despite abundant precipitation during the past several months. Elsewhere in the West, mountain snowpack levels are normal to above normal across the Great Basin, southern Cascades, Wasatch, as well as central and southern Rockies. In the southern Plains and portions of the South, overall dry conditions have persisted, especially across Arkansas and Oklahoma. During the past week, temperatures were above normal across most of the conterminous U.S. with the exception of the northern Plains and much of the Pacific Northwest where temperatures were 5 to 20 degrees below normal with the greatest departures observed across Montana.”

USDA 2016 Secretarial [Drought Designations](#)

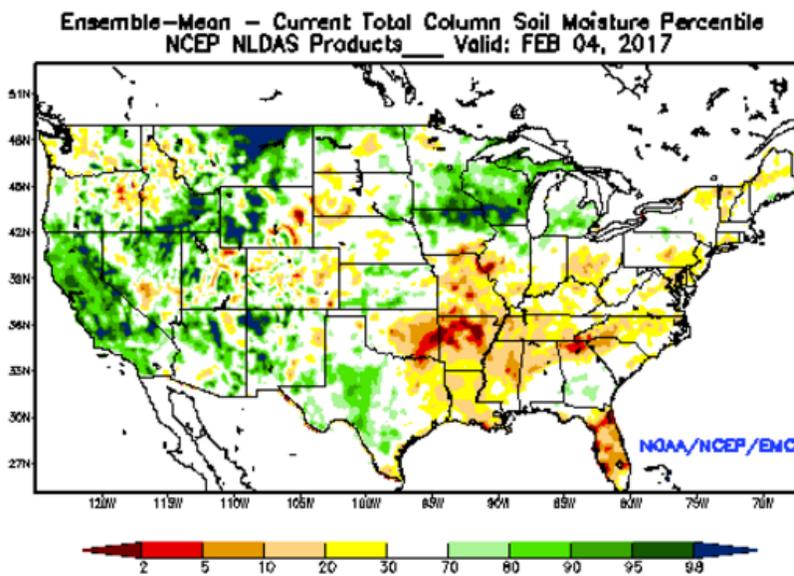


Highlighted Drought Resources

- [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](#)

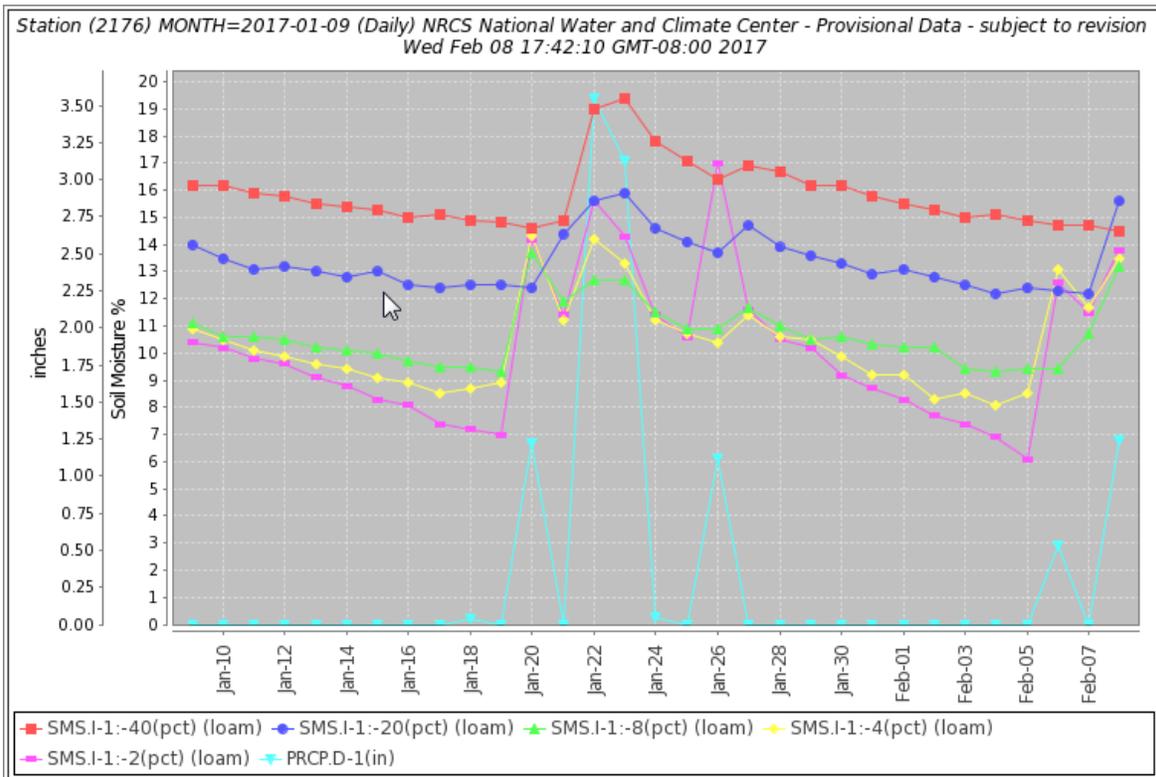
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of February 4, 2017.

Soil Moisture Data: NRCS [Soil Climate Analysis Network \(SCAN\)](#)



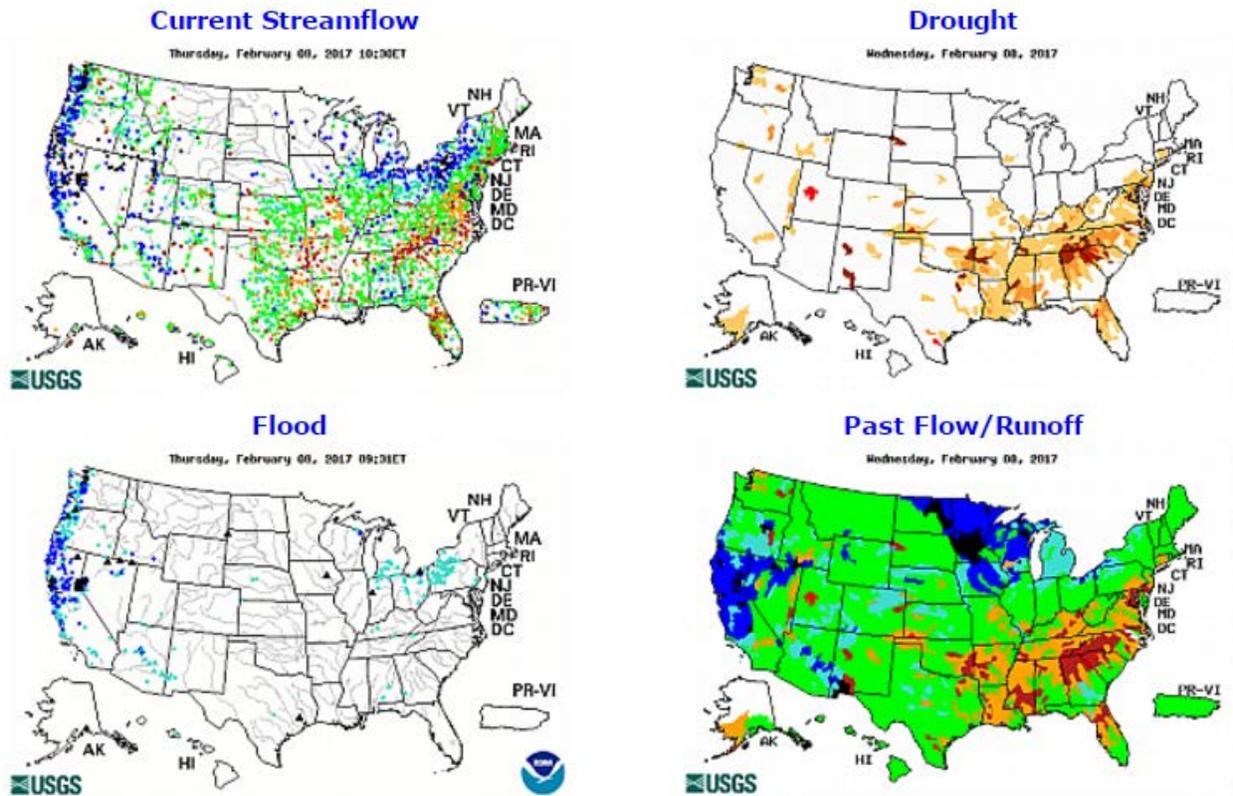
Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the last 30 days at the [Selma SCAN site 2176](#) in Alabama. Precipitation events from January 20 to 27 and on February 6 and 8 resulted in an increase in soil moisture at all depth sensors. Soil drying between precipitation events is also notable.

Soil Moisture Data Portals

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

Streamflow

Source: USGS



Click graphic to enlarge and display legends

[Current streamflow maps](#)

Current Reservoir Storage

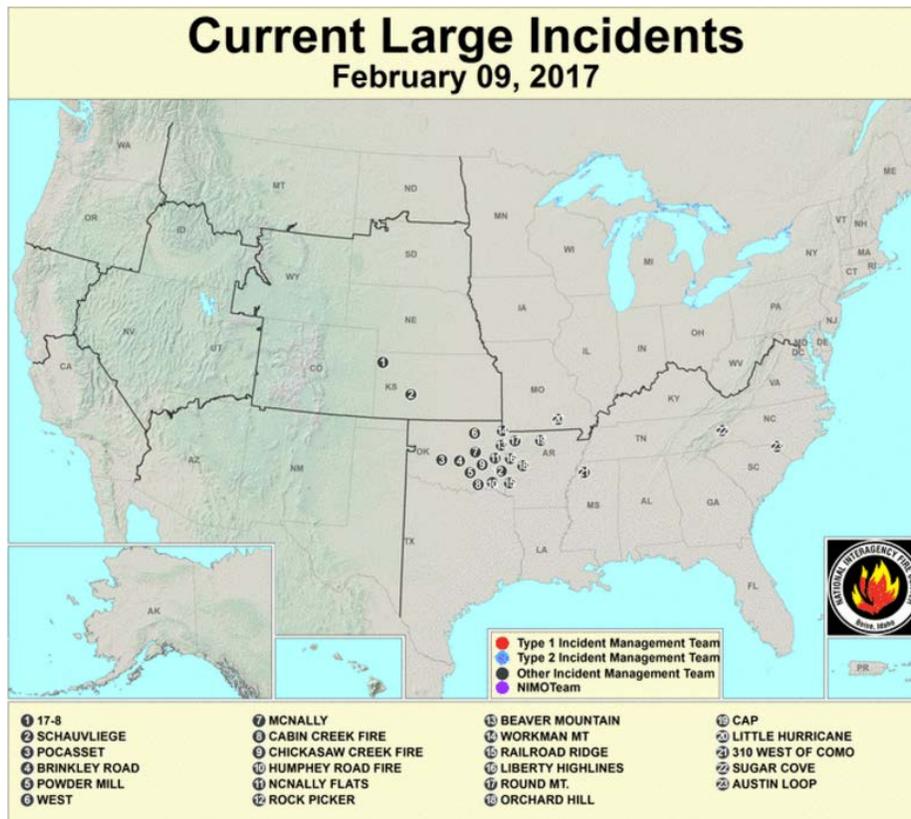
[National Water and Climate Center Reservoir Data](#)

U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions:

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

[California Reservoir Conditions](#)

Wildfires: [USDA Forest Service Active Fire Mapping](#)



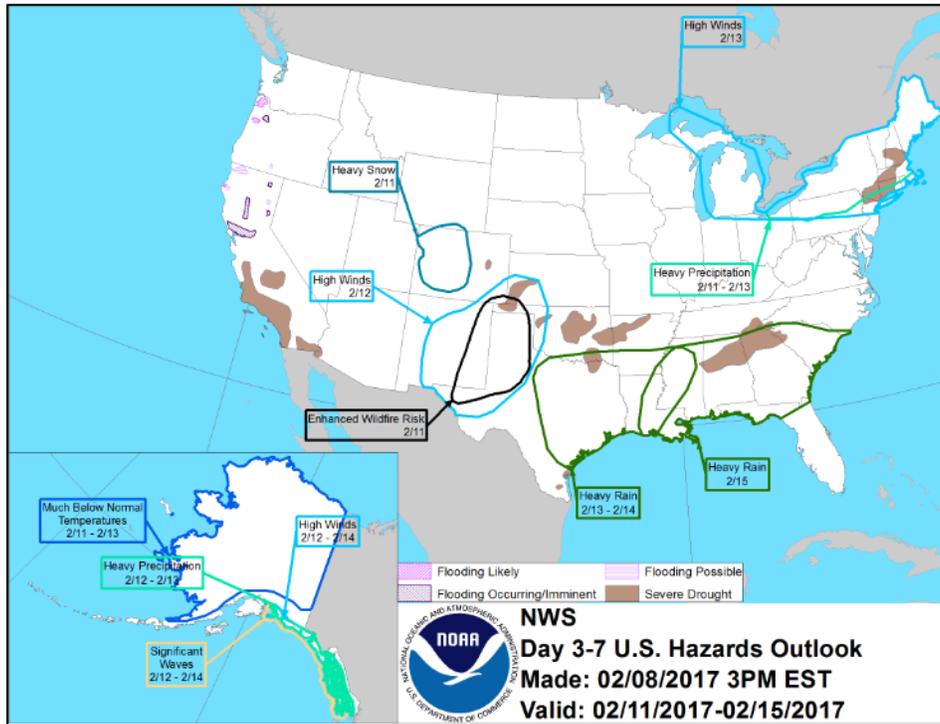
Short- and Long-Range Outlooks

Agricultural Weather Highlights

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

[National Outlook, February 9, 2017](#): “The last in a series of major Pacific storms will push inland across the western U.S. during the next 3 days. Additional precipitation could reach 4 to 12 inches in parts of northern and central California; 2 to 8 inches in the Pacific Northwest; and 1 to 5 inches in the northern Rockies and Intermountain West. Farther east, a fast moving disturbance will generate snow today in the Midwest and heavy snow tonight and Thursday in parts of the Northeast. A brief cold snap across the Midwest and East will be followed by rapid warming; much of the central and eastern U.S. will experience above-normal weekend temperatures. By early next week, a storm system emerging from the Southwest should result in widespread precipitation across the South, East, and lower Midwest. The NWS 6- to 10-day outlook for February 13 – 17 calls for the likelihood of near- to above-normal temperatures nationwide, except for colder-than-normal conditions in the Northeast. Meanwhile, wetter-than-normal weather in the Pacific Coast States, the Deep South, and the Northeast will contrast with near- to below-normal precipitation across the remainder of the U.S.”

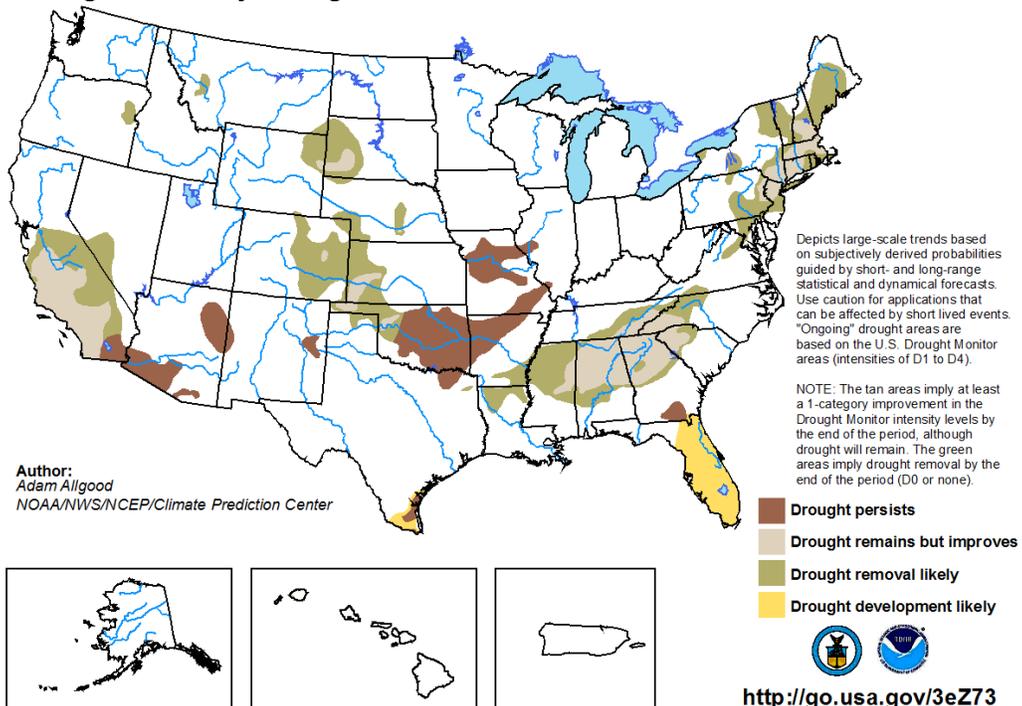
NWS Climate Prediction Center Weather Hazard Outlook: [February 11 – 15, 2017](#)



NWS Seasonal Drought Outlook: [January 19, 2017 – April 30, 2017](#)

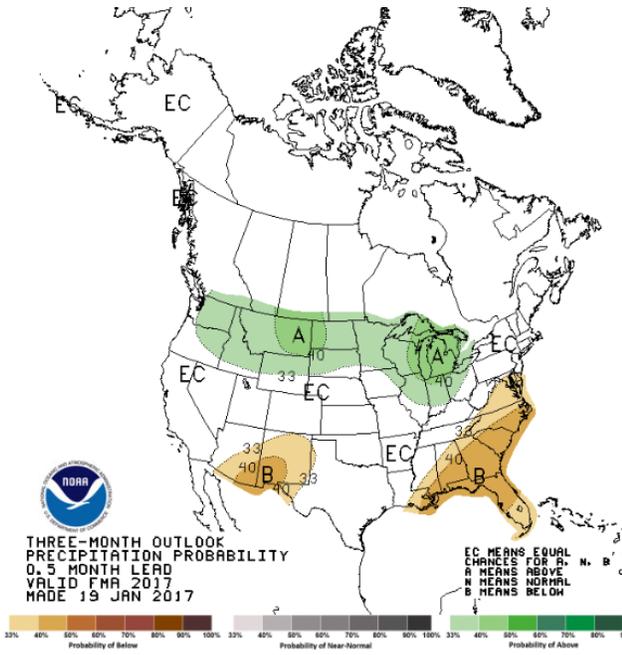
U.S. Seasonal Drought Outlook
 Drought Tendency During the Valid Period

Valid for January 19 - April 30, 2017
 Released January 19, 2017



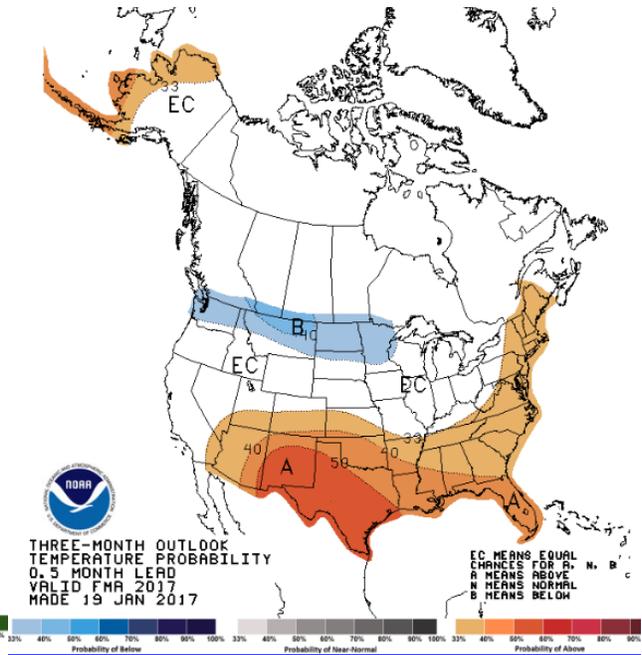
NWS Climate Prediction Center 3-Month Outlook

[Precipitation](#)



[February-March-April \(FMA\) 2017 precipitation outlook summary](#)

[Temperature](#)



[February-March-April \(FMA\) 2017 temperature outlook summary](#)

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](#).