

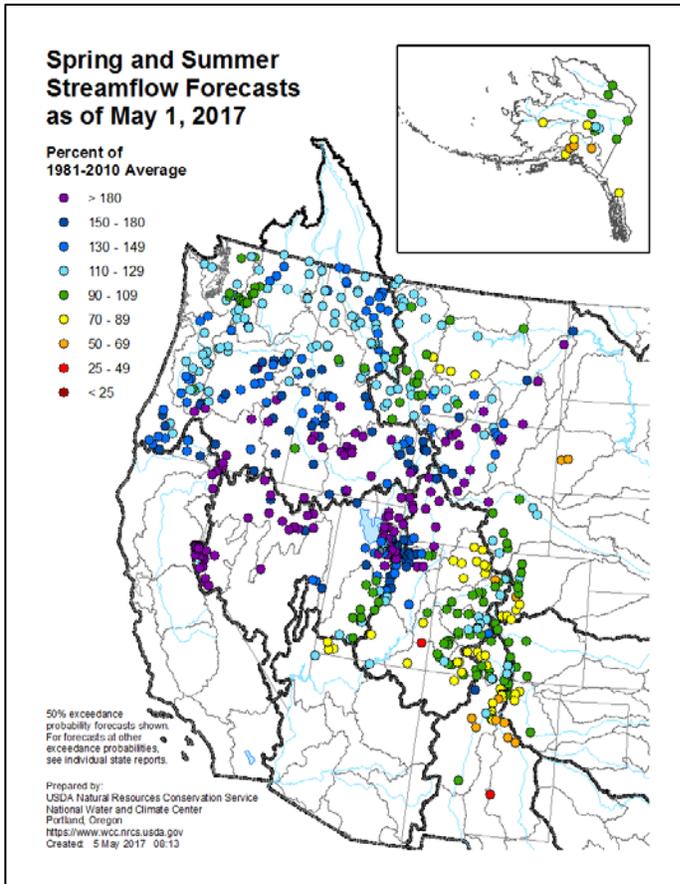
Water and Climate Update

May 11, 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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Water supply forecasts show substantial runoff in central West



The May 1 water supply forecasts for the western U.S. show well above average streamflow from California to Montana. States across this area are forecast for above 180% of normal runoff from the large snowpack in the region.

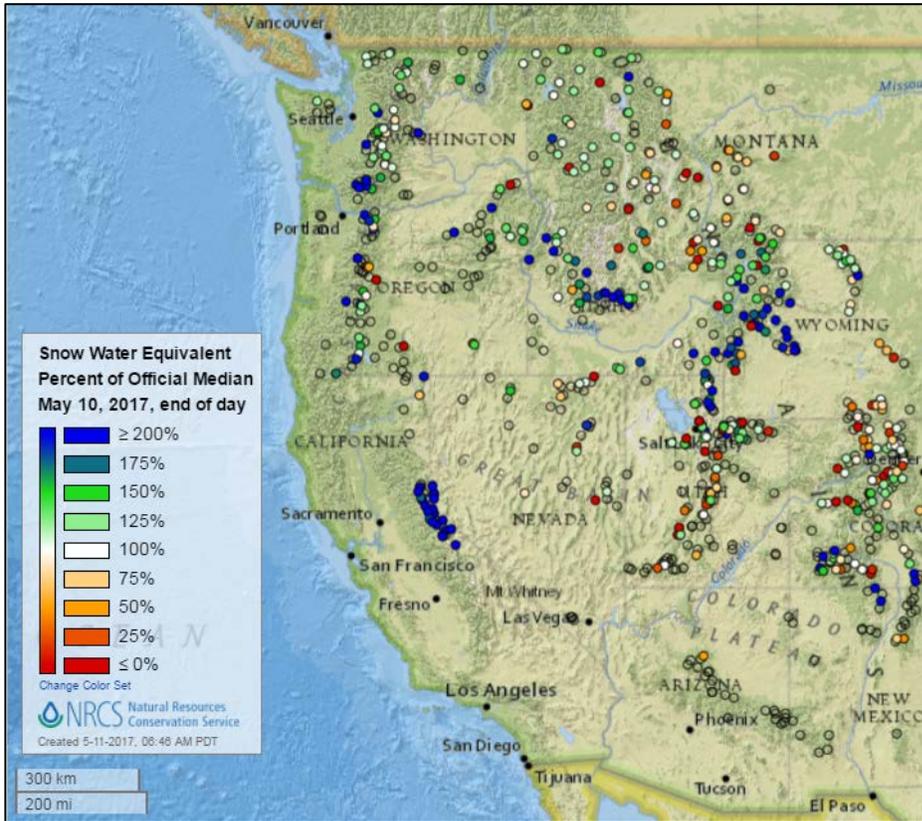
In addition, most of the Pacific Northwest is forecast to be above average, whereas a few stations, mainly in Montana, South Dakota, Colorado, southern Utah, and New Mexico, are forecast to be below average.

More Information:

- [Flood Advisory Remains In Effect Through Friday In Carson Valley](#)
- [Snowmelt Threatens To Flood San Joaquin River, Mokelumne River](#)
- [Snowmelt Prompts Flood Advisory For Truckee River Near Lake Tahoe](#)
- [Ogden River's South Fork overflows its banks due to heavy snowmelt](#)
- [Flood Advisory for Sheridan Wyoming](#)
- [Nevada Workers Complete 17-Mile Canal to Control Flooding](#)
- [Snow melt this week means danger around water](#)
- [Surging waterways flood the valley](#)

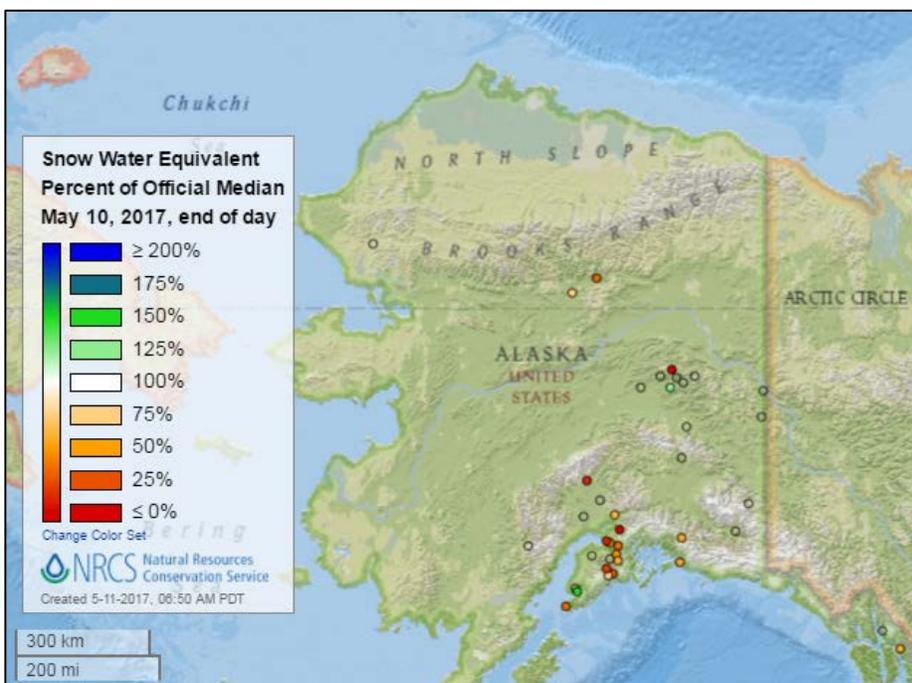
Snow

Current Snow Water Equivalent, NRCS SNOTEL Network



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

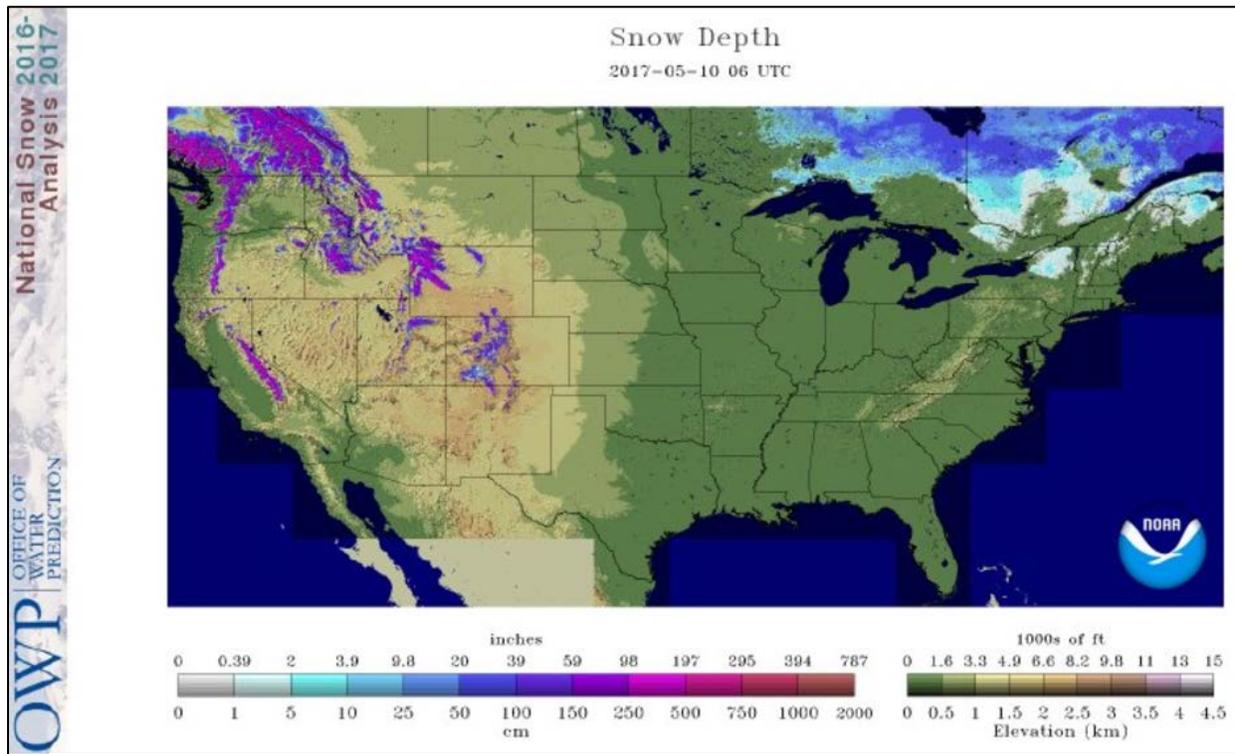
See also:
[Snow water equivalent values \(inches\) map](#)



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

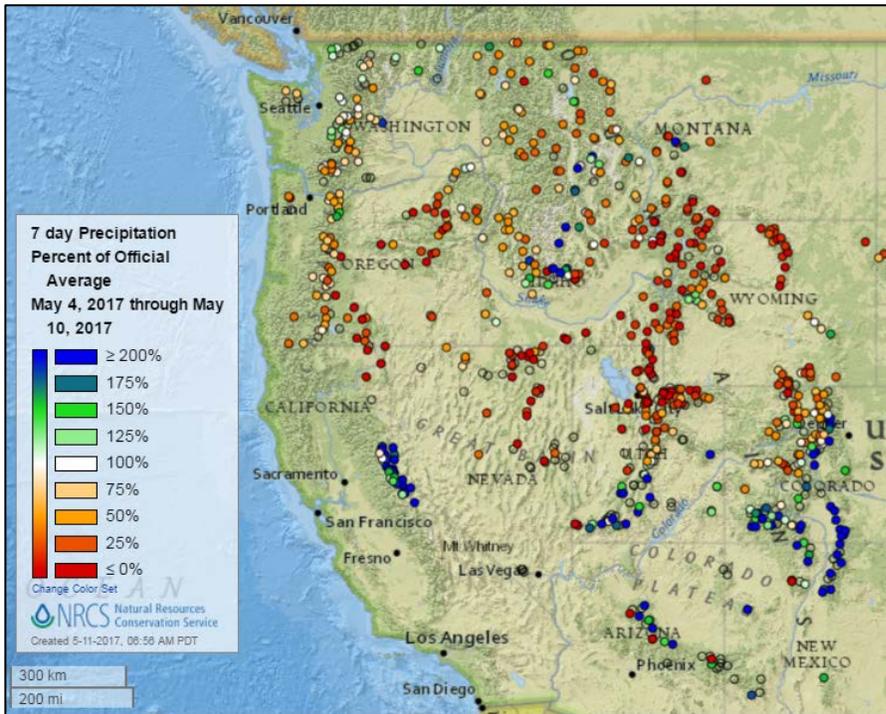
See also:
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service (NWS) Networks



Precipitation

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

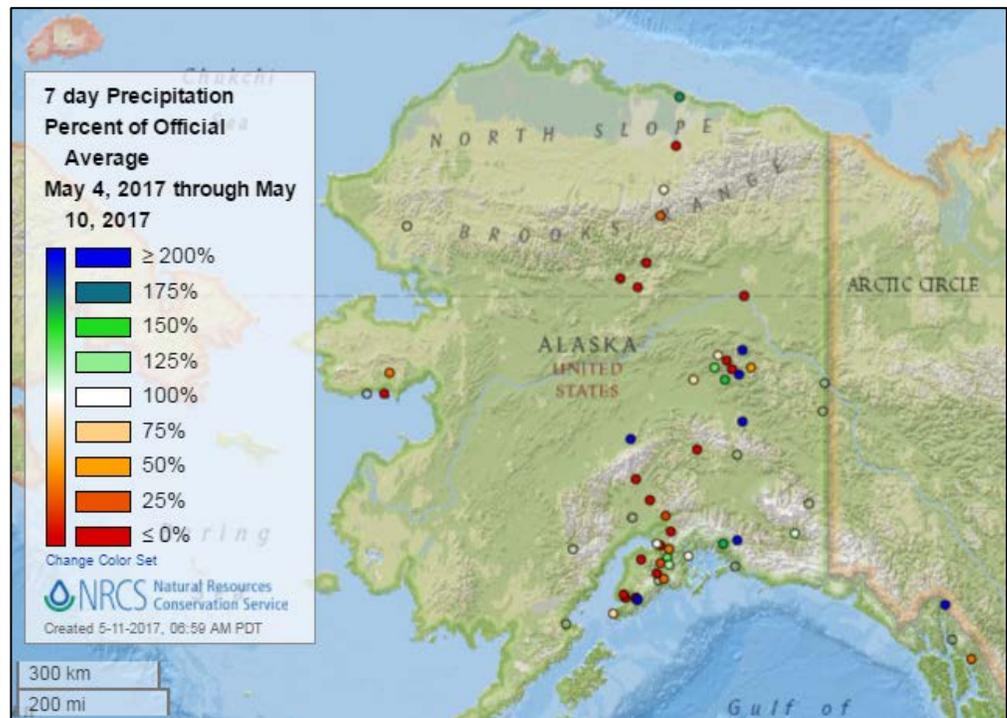


[7-day precipitation percent of average map](#)

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

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

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



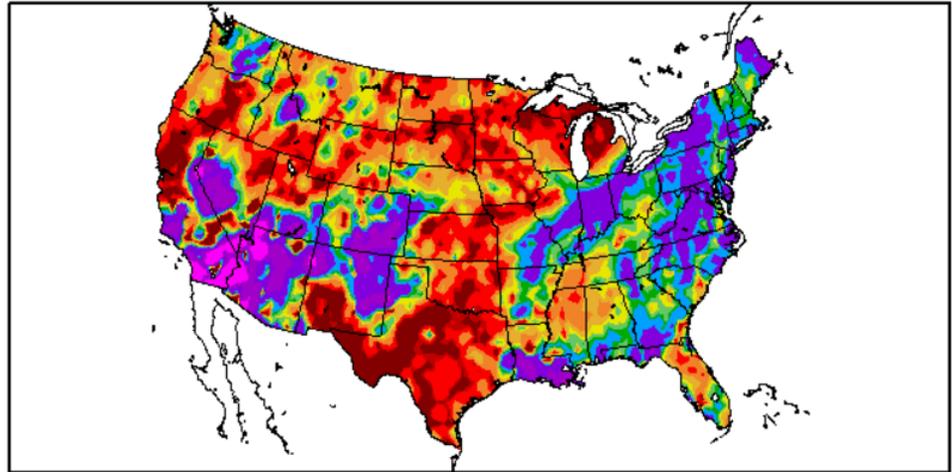
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

Percent of Normal Precipitation (%)
5/4/2017 - 5/10/2017

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



Generated 5/11/2017 at HPRCC using provisional data.

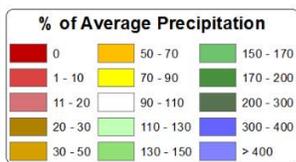
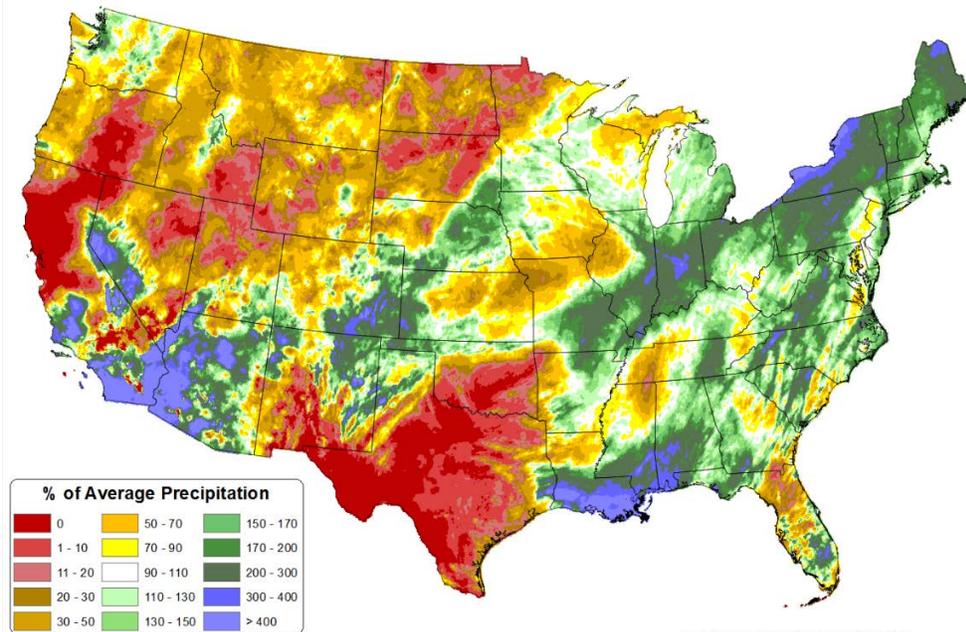
Regional Climate Centers

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

Source: PRISM

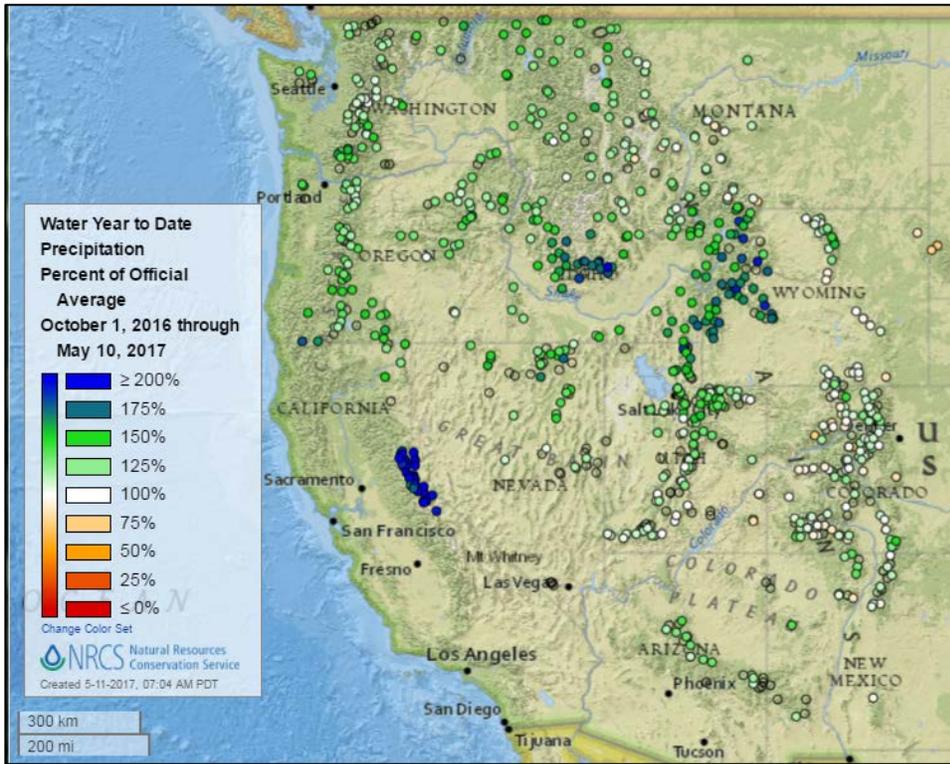
Total Precipitation Anomaly: 01 May 2017 - 10 May 2017
Period ending 7 AM EST 10 May 2017
Base period: 1981-2010
(Map created 11 May 2017)

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



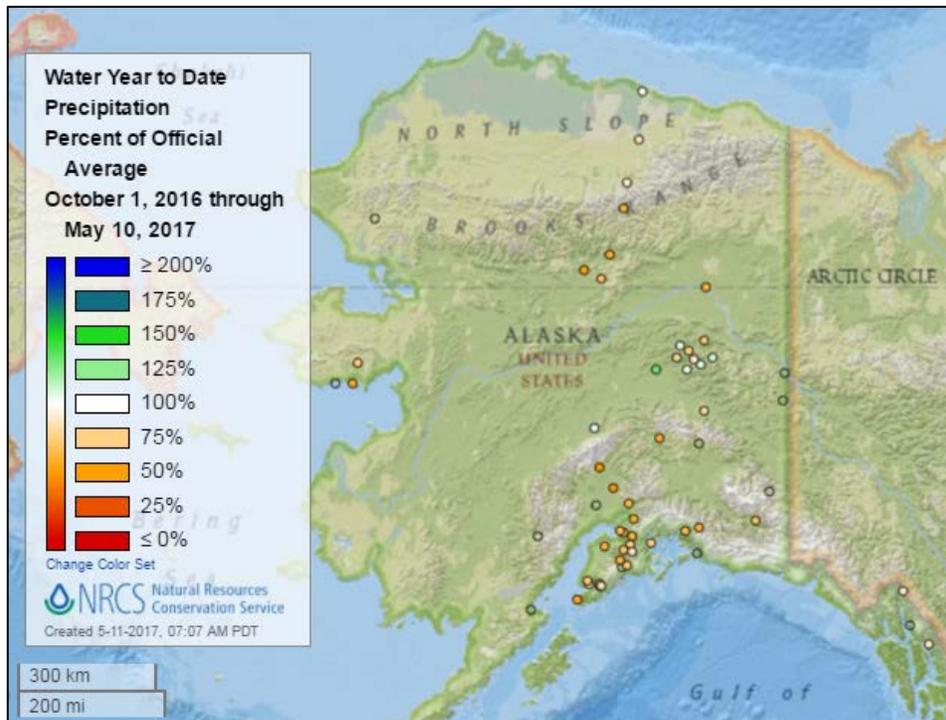
Copyright © 2017, PRISM Climate Group, Oregon State University

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 \(inches\)](#)



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

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

Temperature

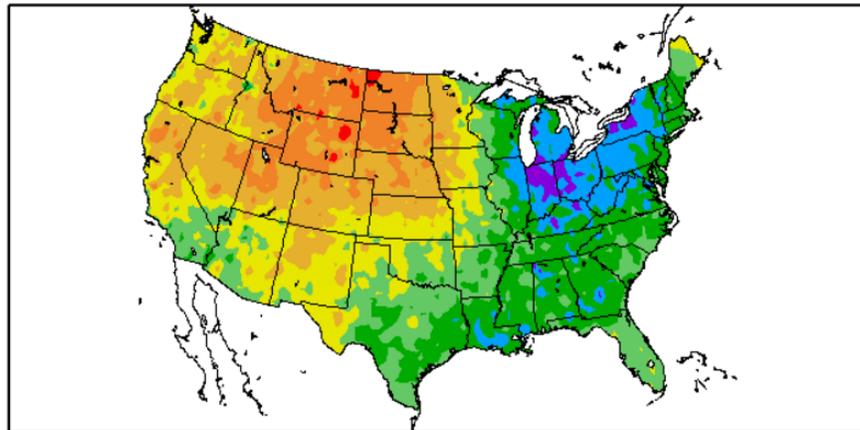
Last 7 Days, National Weather Service (NWS) Networks

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)
5/4/2017 – 5/10/2017



Generated 5/11/2017 at HPRCC using provisional data.

Regional Climate Centers

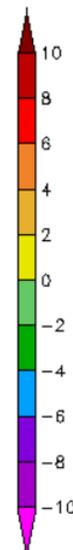
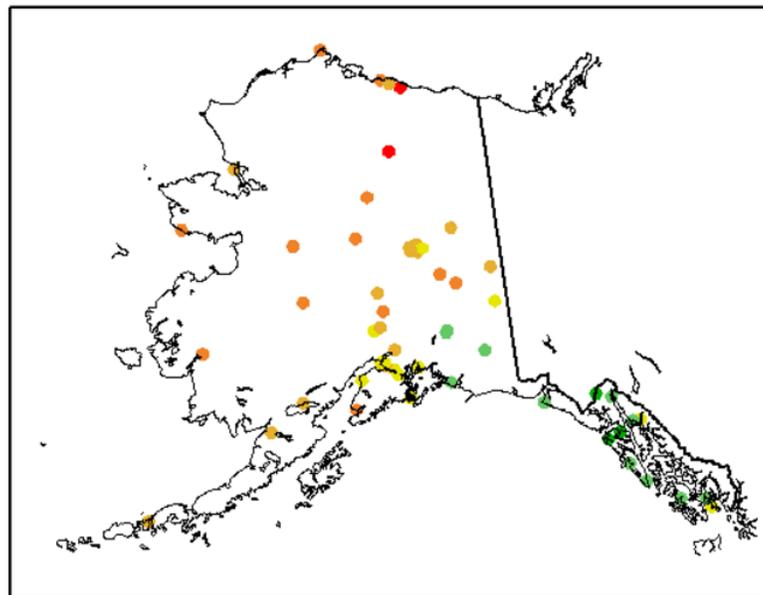
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
5/4/2017 – 5/10/2017



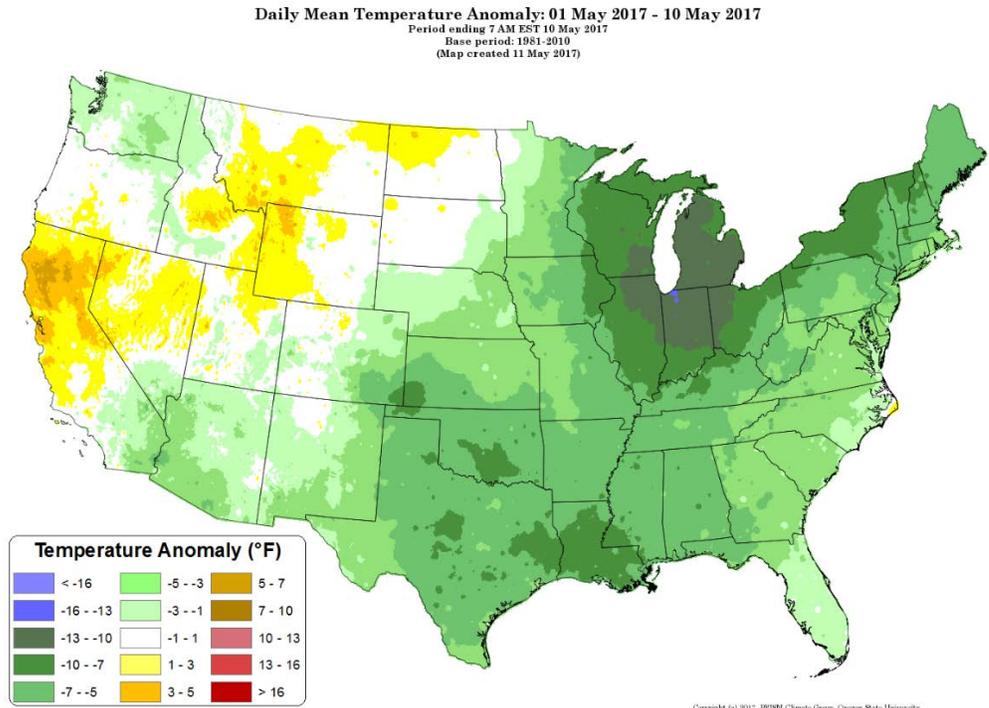
Generated 5/11/2017 at HPRCC using provisional data.

Regional Climate Centers

Water and Climate Update

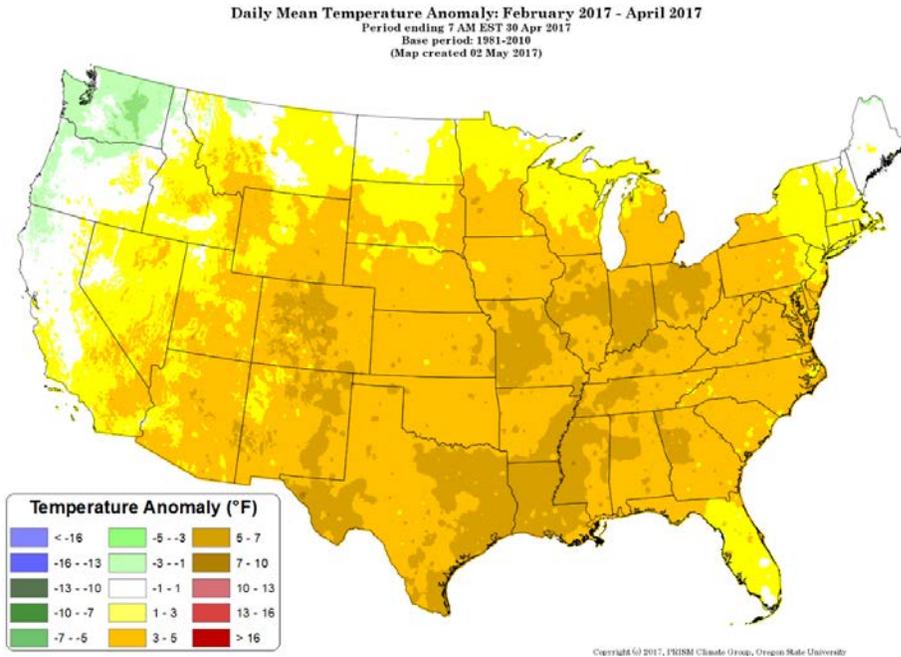
Month-to-Date, All Available Data Including SNOTEL and NWS Networks Source: PRISM

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



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

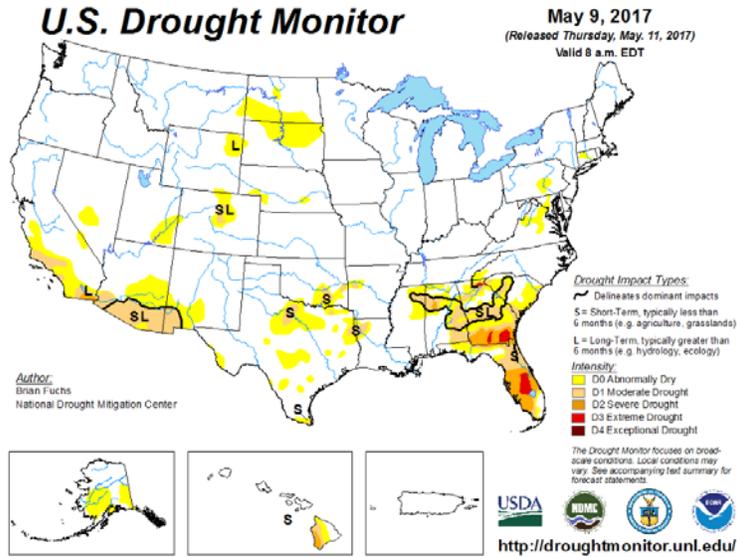
[February through April 2017 daily mean temperature anomaly map](#)



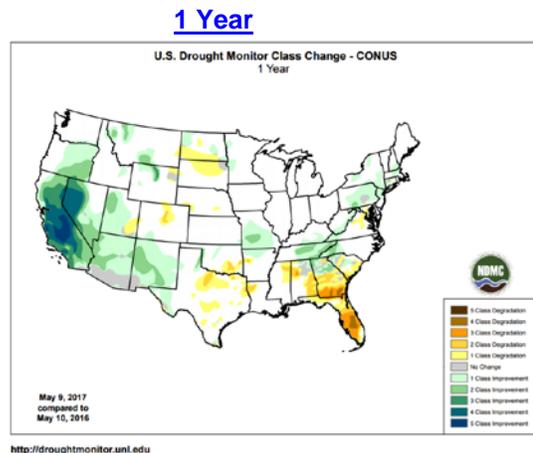
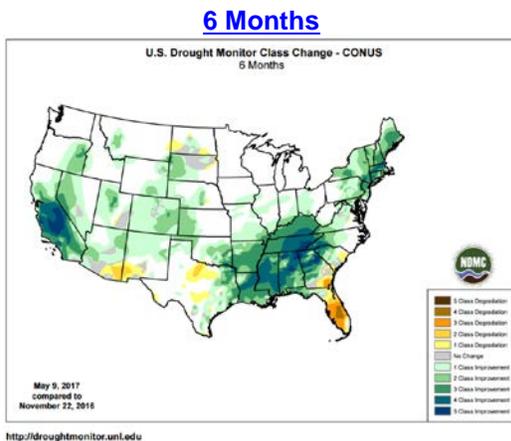
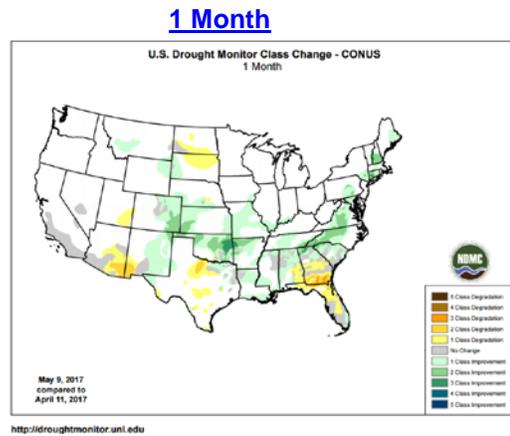
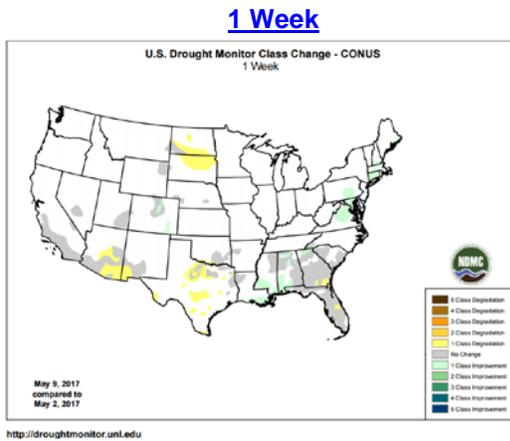
Drought

[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](#), May 9, 2017

Author: Brian Fuchs, National Drought Mitigation Center

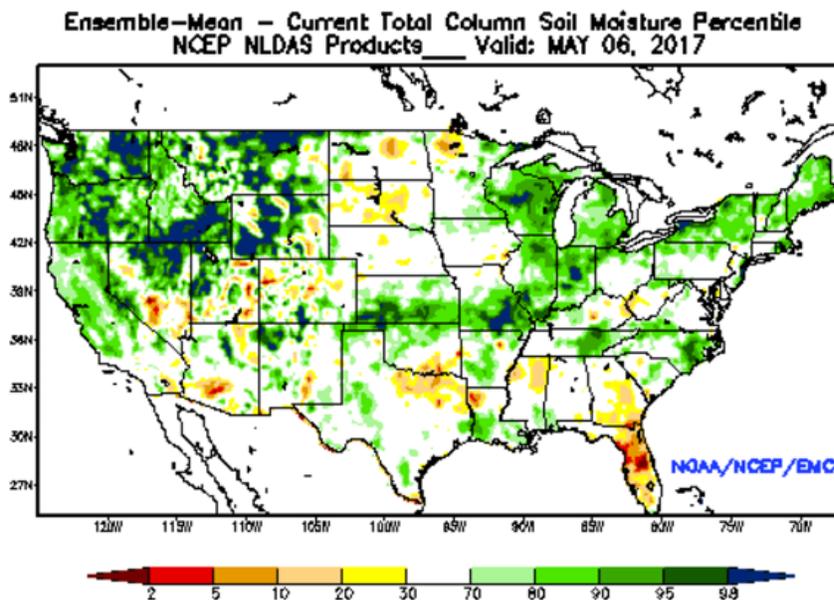
“The Midwest continued to be inundated with heavy rains from southern Kansas through Missouri and into southern Illinois and Indiana. Amounts associated with the Midwest rains were generally in the 1-3 inch range, with locally higher amounts. Much of the eastern United States was wet over the last week; many areas recorded above-normal precipitation and the rains kept temperatures below normal, with departures of 10 degrees or more over the Midwest. Over the weekend, heat returned to the Southwest with several days of temperatures above 100 degrees F while most of the western half of the United States had above-normal temperatures with departures of 6-8 degrees above normal in the Dakotas and northern Rocky Mountains. Much of the West and Plains were dry for the week, with just scattered thunderstorms in the Rocky Mountains and rains along the coastal areas of the Pacific Northwest.”

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](#)

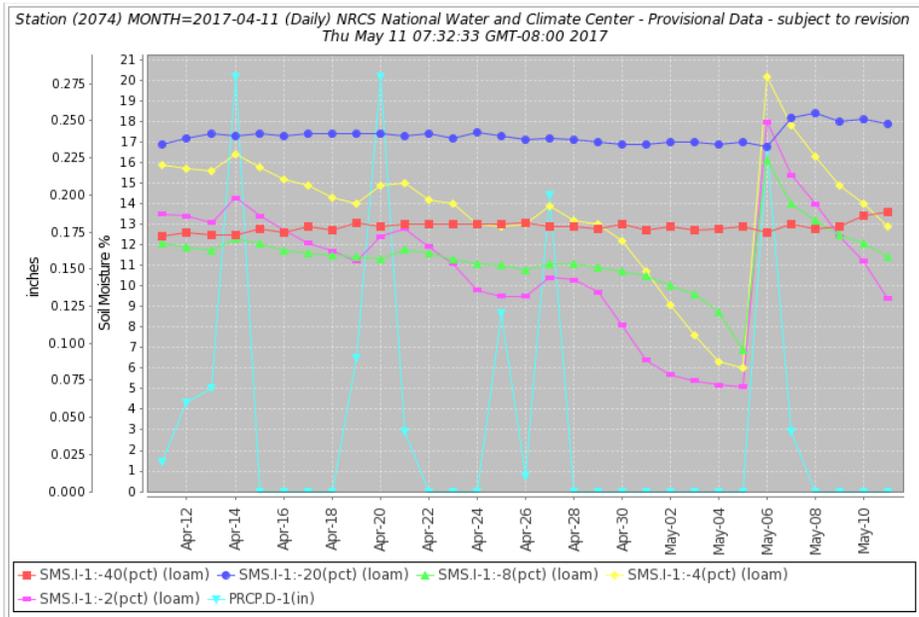
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of May 6, 2017.

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



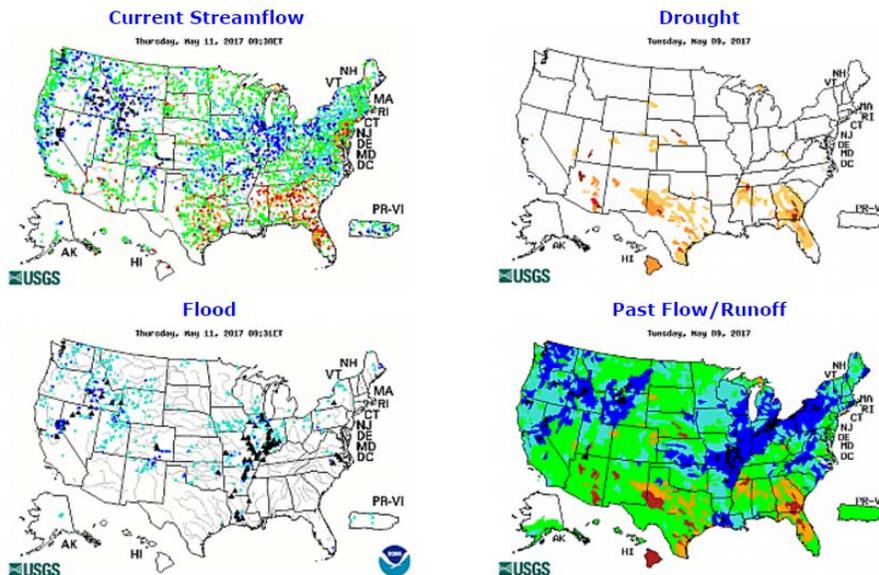
Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the past 30 days at the [Lynhart Ranch SCAN site 2074](#) in Oregon. Precipitation during this time has produced soil moisture increases at the 2-, 4-, and 8-inch sensors, and the most recent event increased soil moisture at the 20- and 40-inch sensors.

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



[Current streamflow maps](#) Click image to enlarge and display legends

Reservoir Storage

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

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

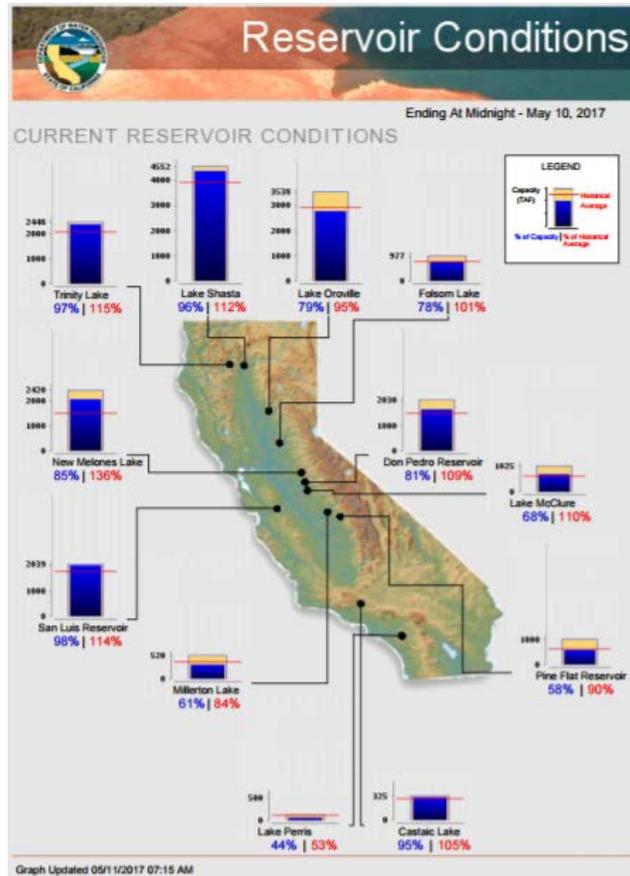
[Upper Colorado](#)

[Pacific Northwest/Snake/Columbia](#)

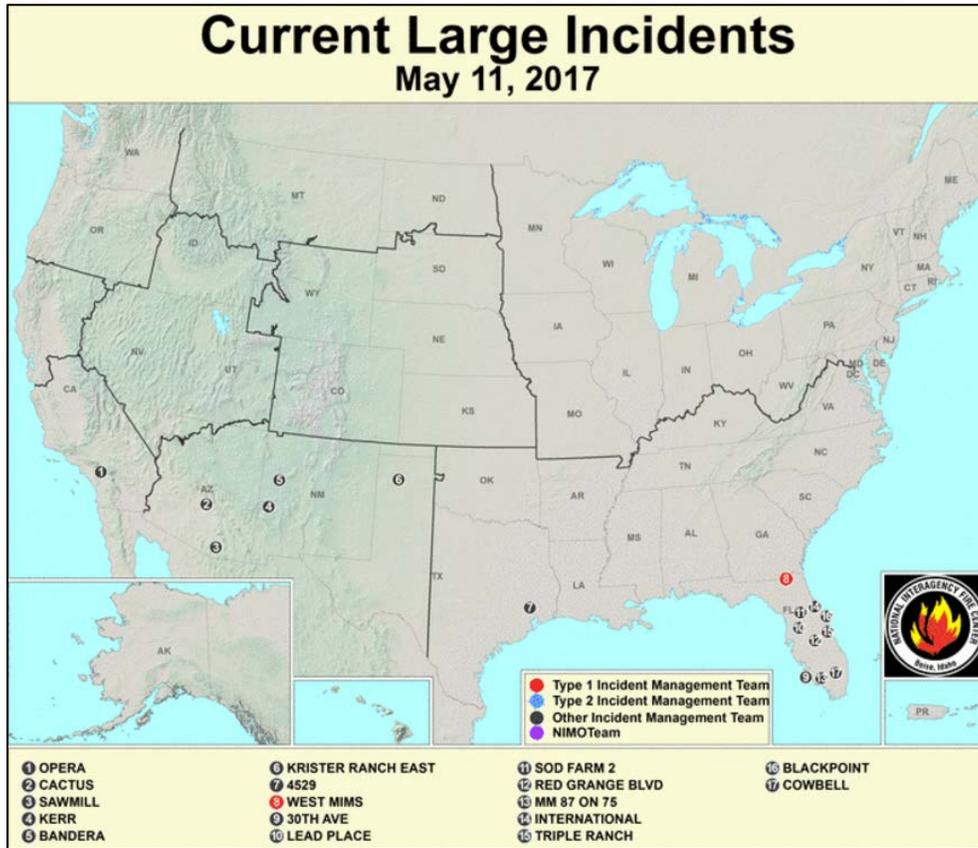
[Sevier River Water, Utah](#)

[Upper Missouri, Kansas, Oklahoma, Texas](#)

[California Current Reservoir Conditions](#)



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



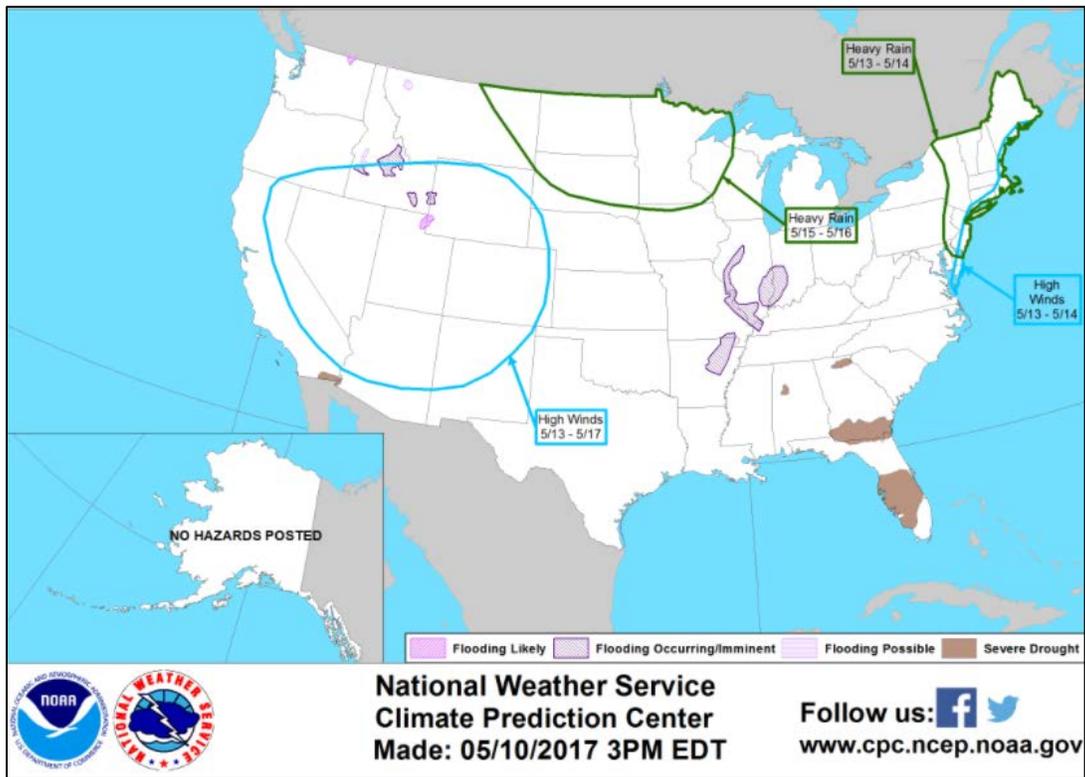
Short- and Long-Range Outlooks

Agricultural Weather Highlights

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

[National Outlook, May 11, 2017](#): “A storm system currently centered over the central and southern Plains will drift eastward and then northeastward, maintaining showery weather along its path. Five-day rainfall totals should reach 1 to 3 inches across much of the southern and eastern U.S., including flood-recovery areas of Arkansas and southern Missouri. However, rain will just graze southern and eastern production areas of the Midwest. Meanwhile, cool, showery weather will return to the Northwest, with another surge of below-normal temperatures encompassing all of the western U.S. by week’s end. Chilly weather will also linger across the Northeast into next week. The NWS 6- to 10-day outlook for May 16 – 20 calls for the likelihood of near- to above-normal temperatures throughout the central and eastern U.S., while cooler-than-normal conditions will prevail in the West. Meanwhile, below-normal precipitation in the southern Rockies and the eastern U.S. will contrast with wetter-than-normal weather across the Plains, upper Midwest, and Northwest.”

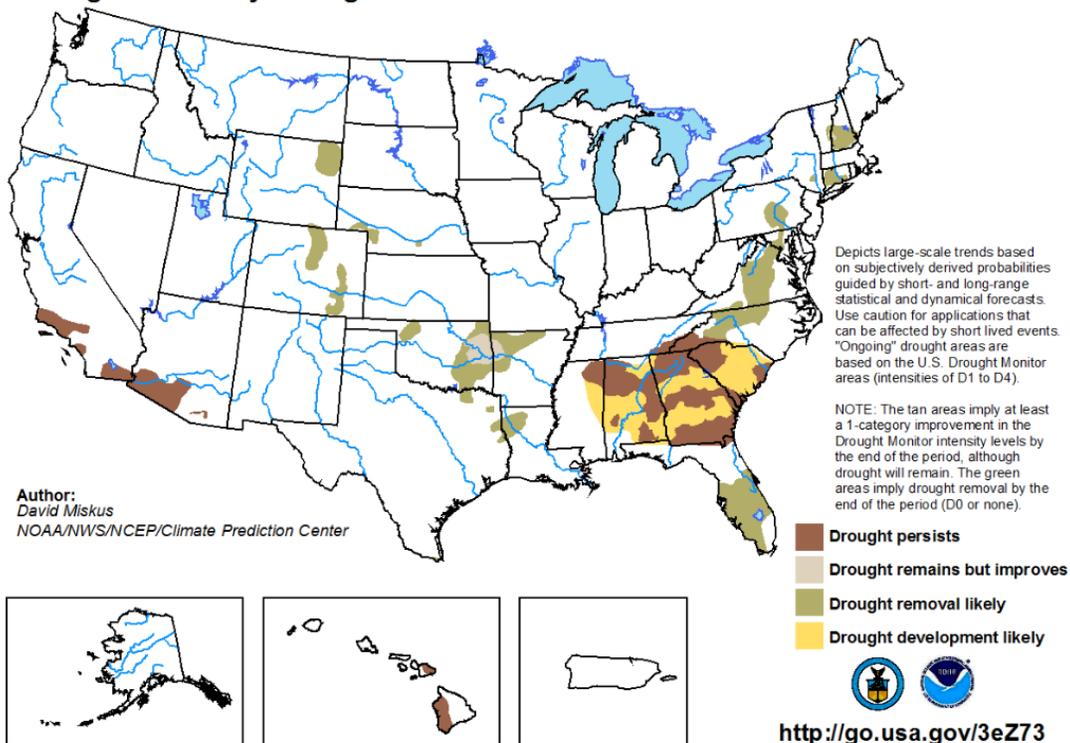
NWS Climate Prediction Center Weather Hazard Outlook: [May 13 - 17, 2017](#)



NWS Seasonal Drought Outlook: [April 20 - July 31, 2017](#)

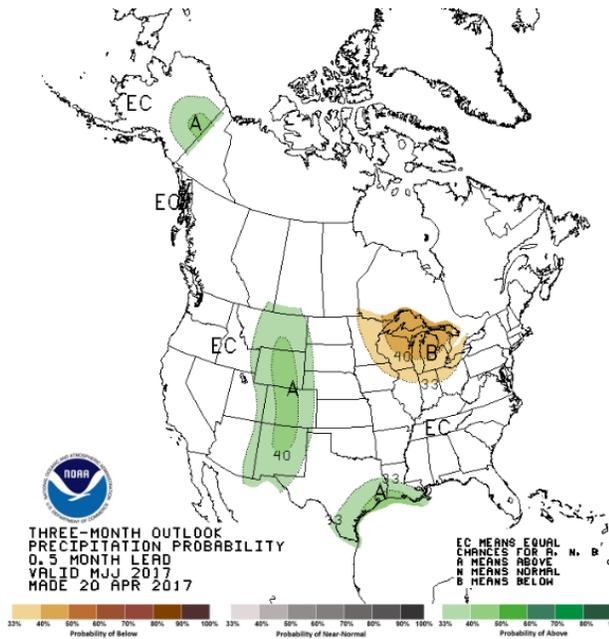
U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

Valid for April 20 - July 31, 2017
Released April 20, 2017

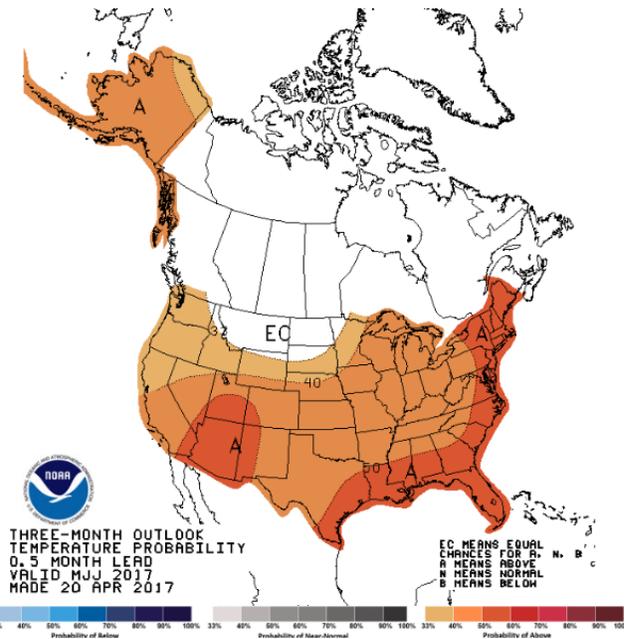


NWS Climate Prediction Center 3-Month Outlook

[Precipitation](#)



[Temperature](#)



[May-June-July \(MJJ\) 2017 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](#).