

Water and Climate Update

July 6, 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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Active wildfires occurring in 12 western states



Two Flagstaff Hotshots on the Goodwin Fire in Arizona encountered two fawns who had become separated from their mother. The firefighters carried the fawns to a nearby safe area where they were released to rejoin their mom. Photo by: Steve Rhine, Prescott National Forest

According to the [National Interagency Fire Center](#), wildfire activity is currently very active across the West. Nine new fires joined with ongoing fires for a total of 34 large active fires under full suppression management activity. These fires have burned over 224,000 acres. So far this year over 30,000 fires have burned over 3,000,000 acres in the U.S. See page 10 of this report for a map of current wildfire incidents. For the latest updates: <https://inciweb.nwcg.gov/20/> Photo courtesy: National Forest Service.

More information:

[Two wildfires burning in Central California scorch more than 1700 acres](#)

[Smoke spreads across Colorado from wildfires](#)

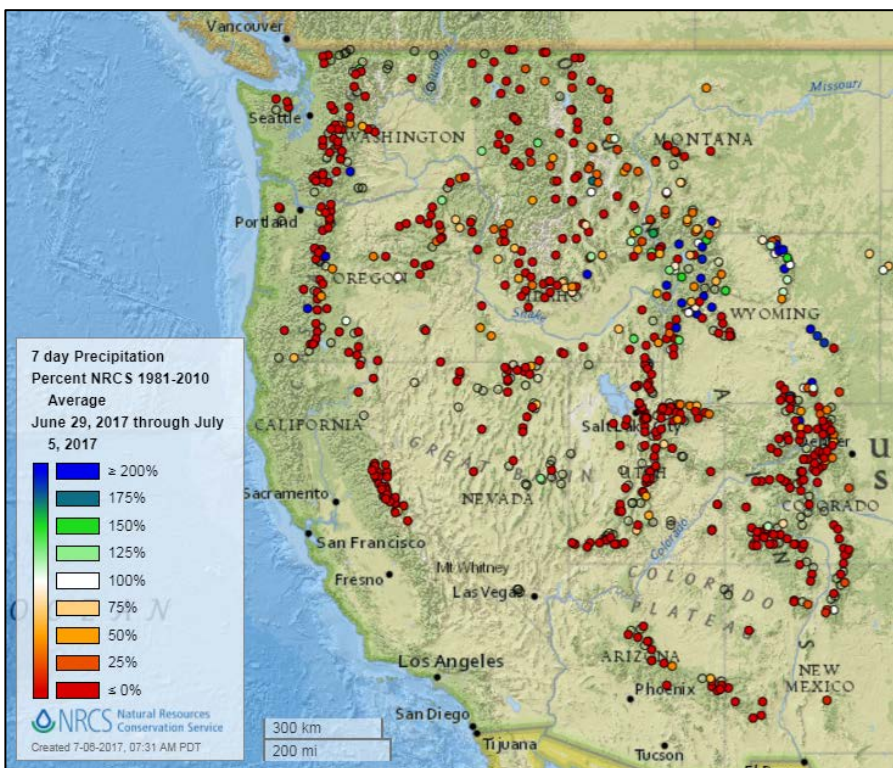
[Wildfire burning in western Washington near Hanford site](#)

[Wildfires pop up around western Nevada](#)

[What you need to know about the 21 wildland fires burning in Arizona](#)

Precipitation

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



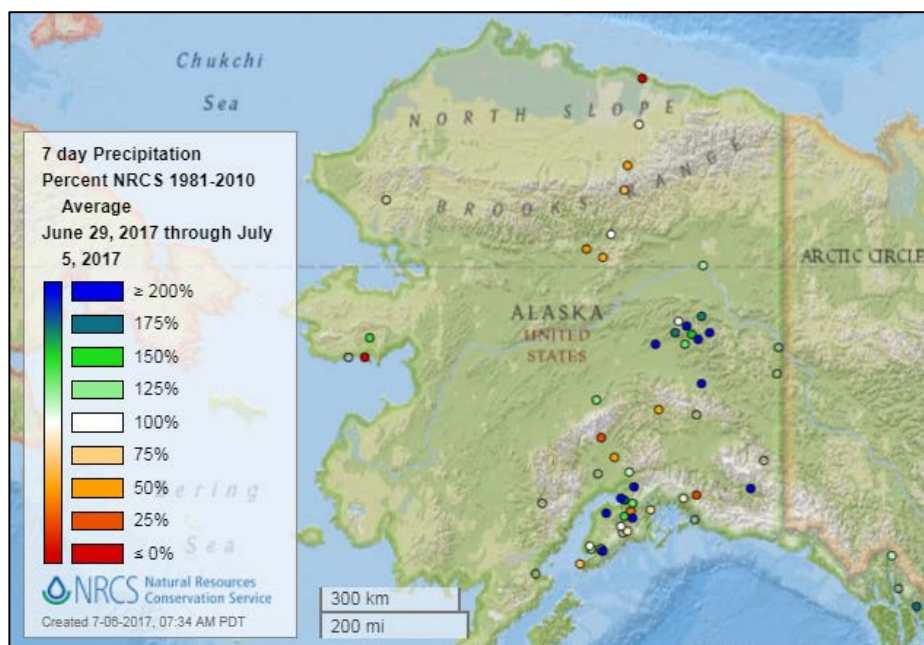
[7-day precipitation percent of average map](#)

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](#)



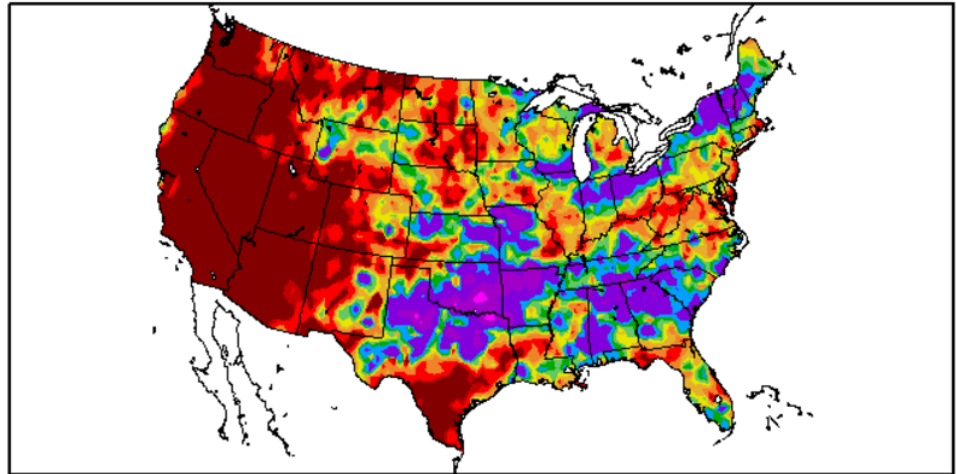
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
6/29/2017 – 7/5/2017



Generated 7/6/2017 at HPRCC using provisional data.

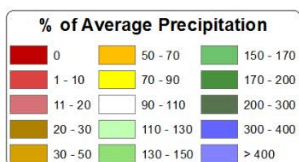
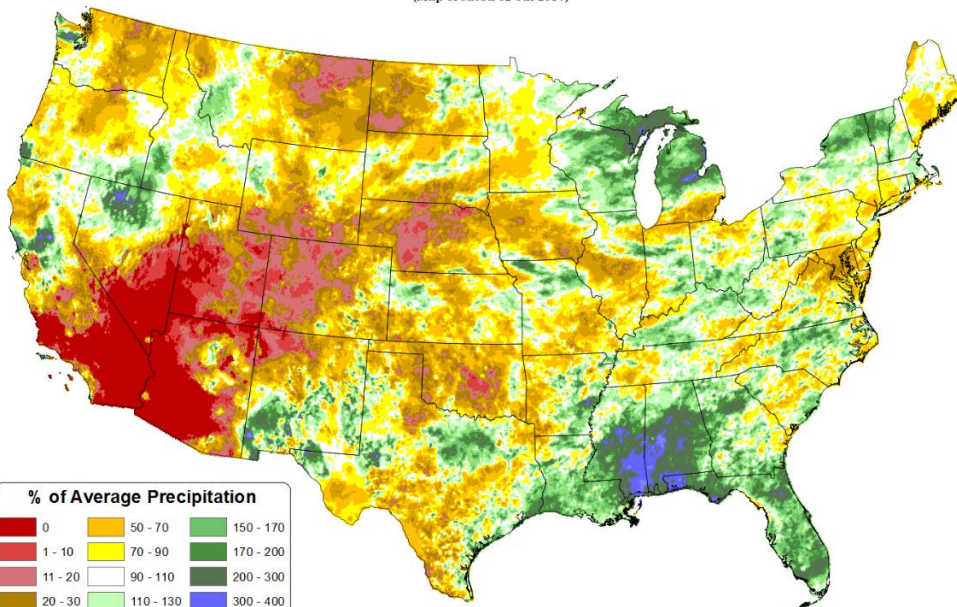
Regional Climate Centers

Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

Total Precipitation Anomaly: June 2017
Period ending 30 Jun 2017
Base period: 1981-2010
(Map created 02 Jul 2017)

[Previous month national precipitation percent of average map](#)



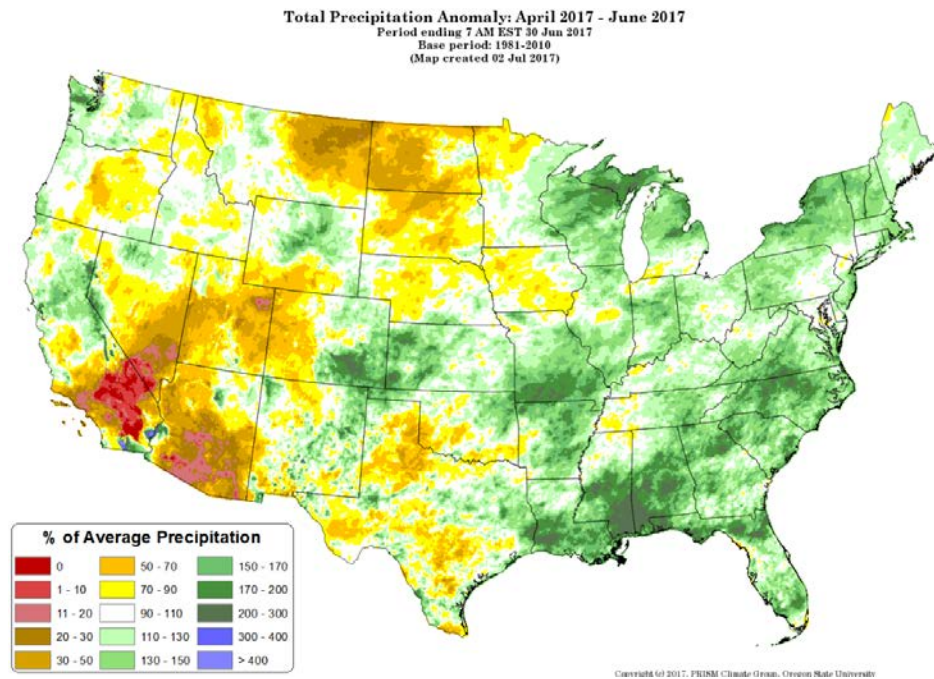
Copyright (c) 2017, PRISM Climate Group, Oregon State University

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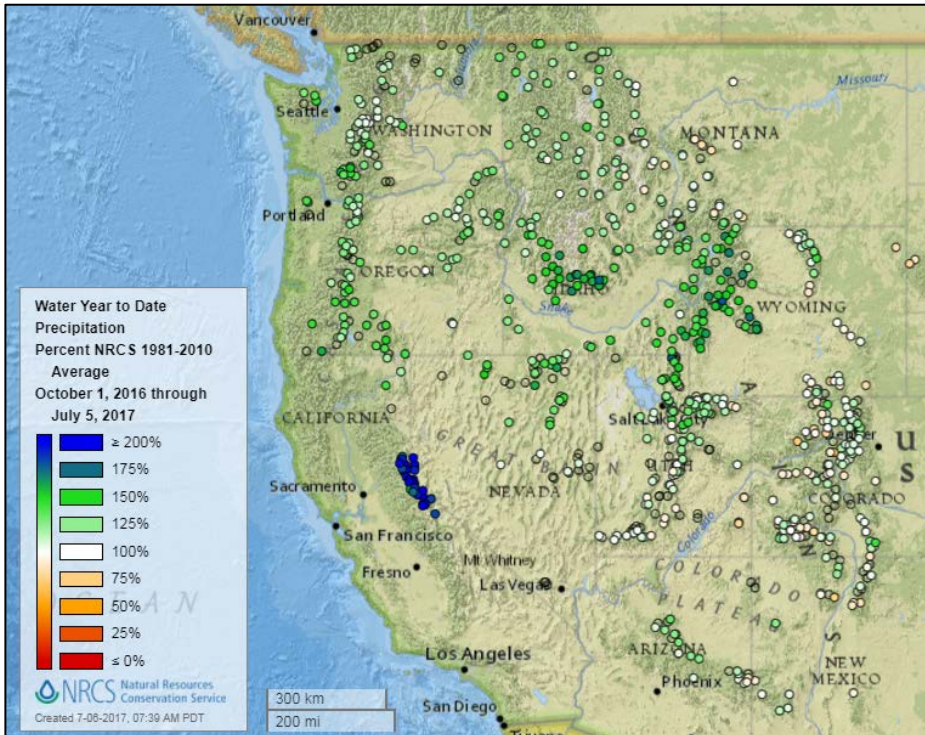
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[April through June 2017 daily mean precipitation anomaly map](#)

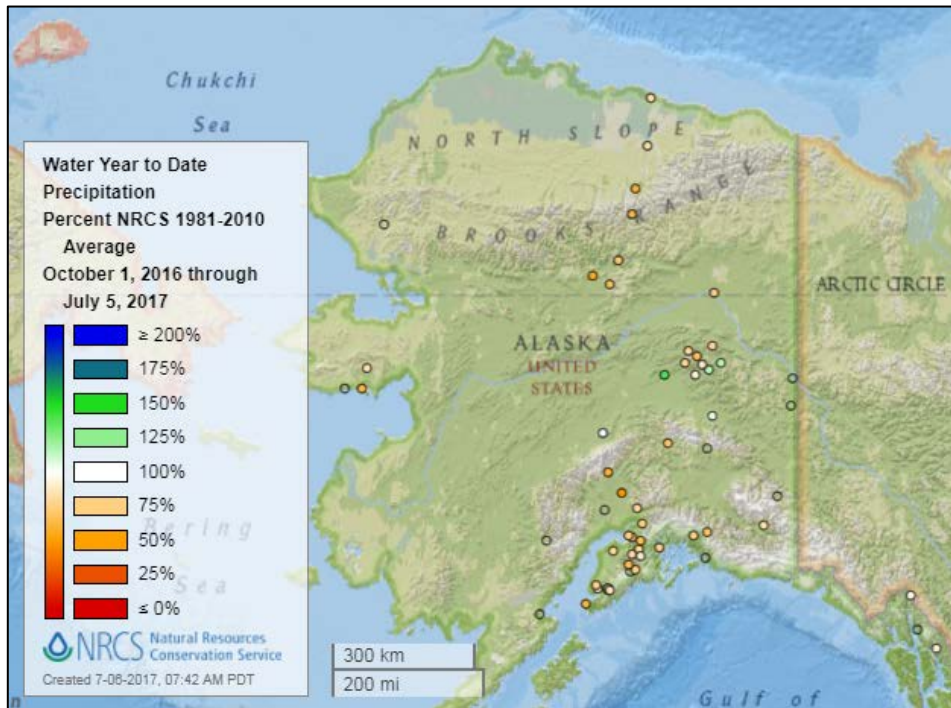


Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



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

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



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

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

Temperature

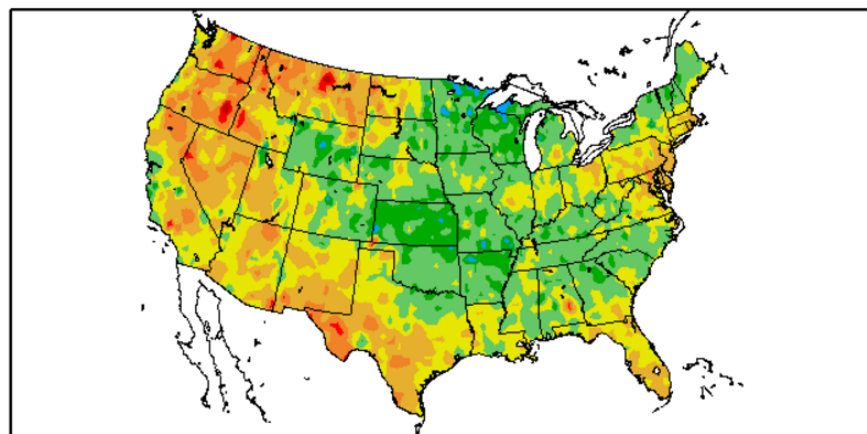
Last 7 Days, National Weather Service (NWS) Networks

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)
6/29/2017 – 7/5/2017



Generated 7/6/2017 at HPRCC using provisional data.

Regional Climate Centers

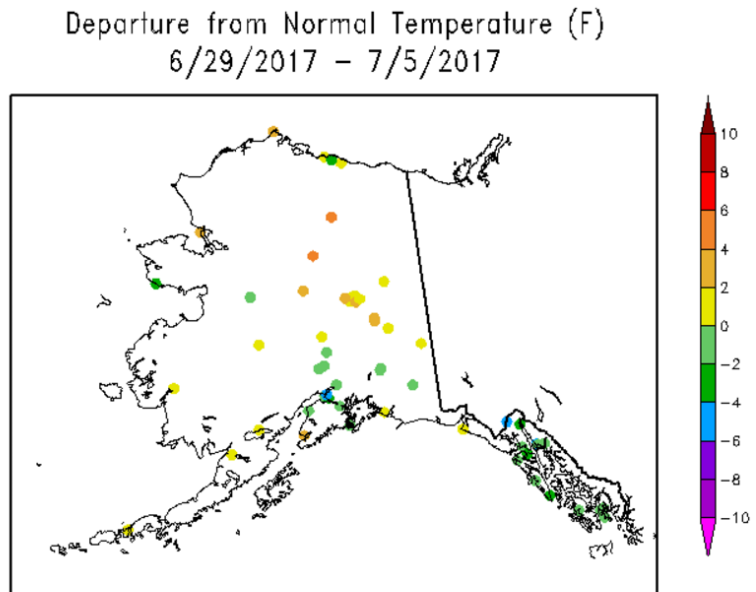
Water and Climate Update

Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

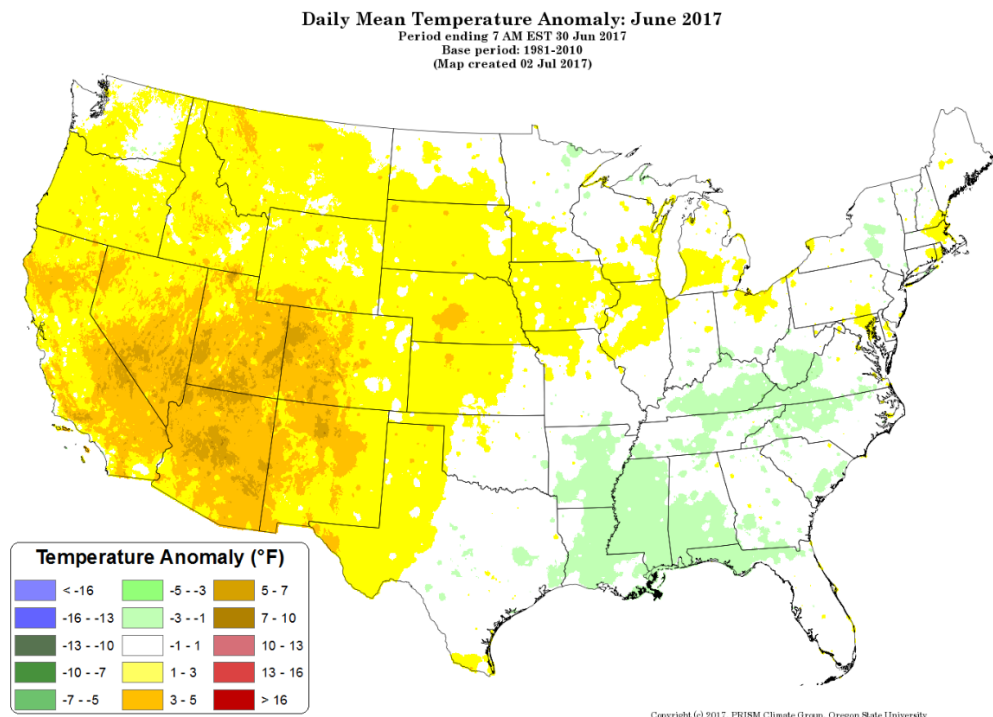
See also: [7-day temperature \(° F\) map](#)



Previous Month, All Available Data Including SNOTEL and NWS Networks

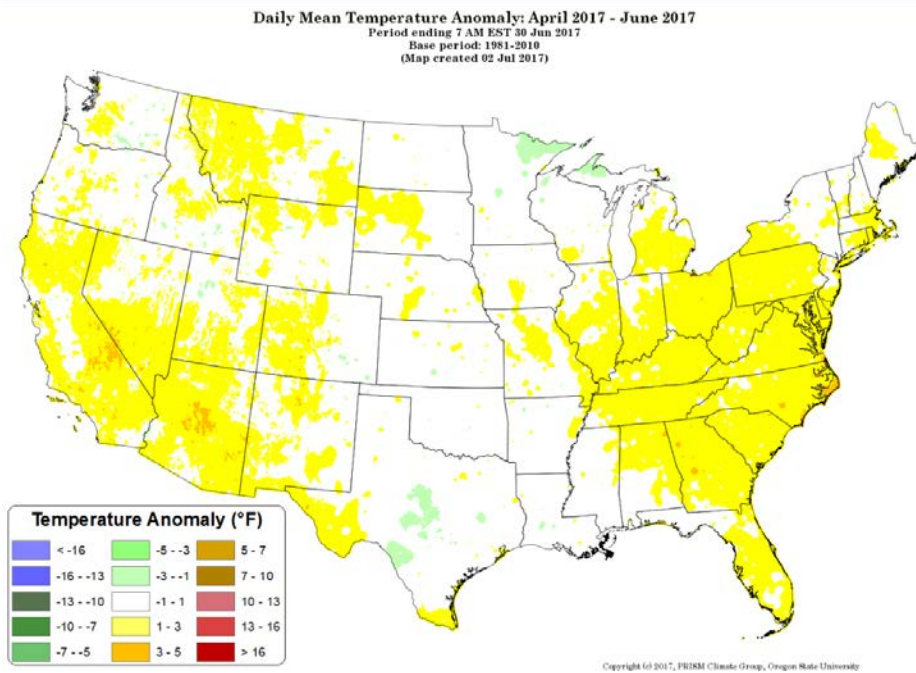
Source: PRISM

[Previous month national daily mean temperature anomaly map](#)



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

Source: PRISM

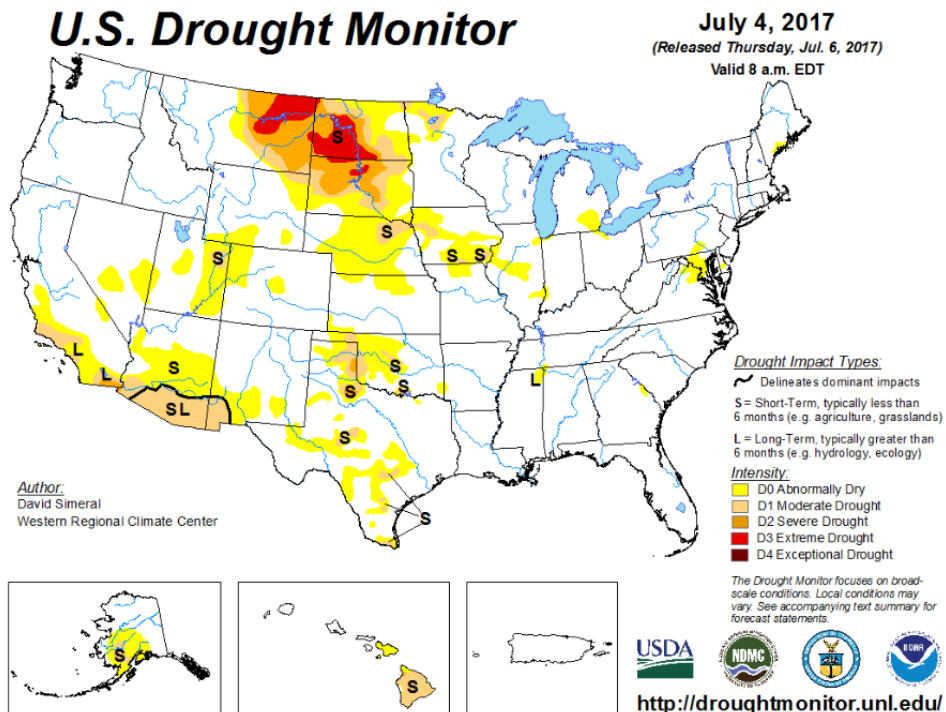


[April through June 2017 daily mean temperature anomaly map](#)

Drought

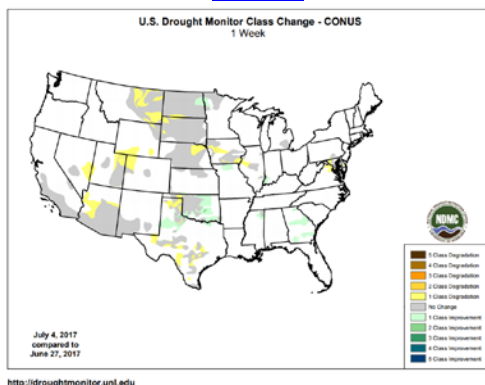
[U.S. Drought Monitor](#) See map below.

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

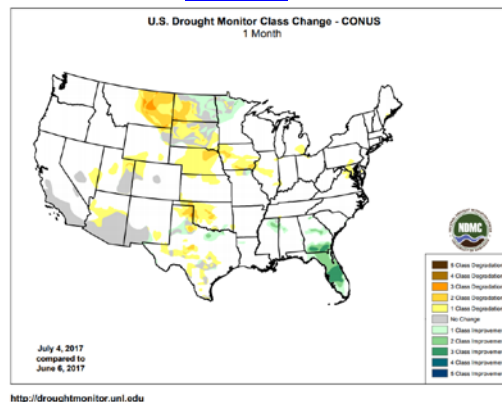


Changes in Drought Monitor Categories over Time

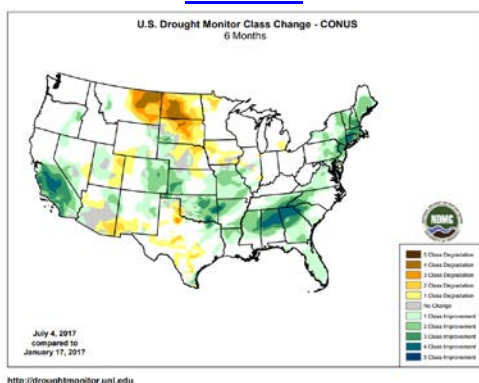
1 Week



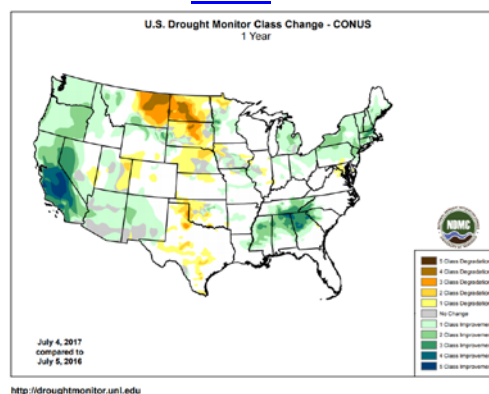
1 Month



6 Months



1 Year



Changes in drought conditions over the last 12 months

Current National Drought Summary, July 4, 2017

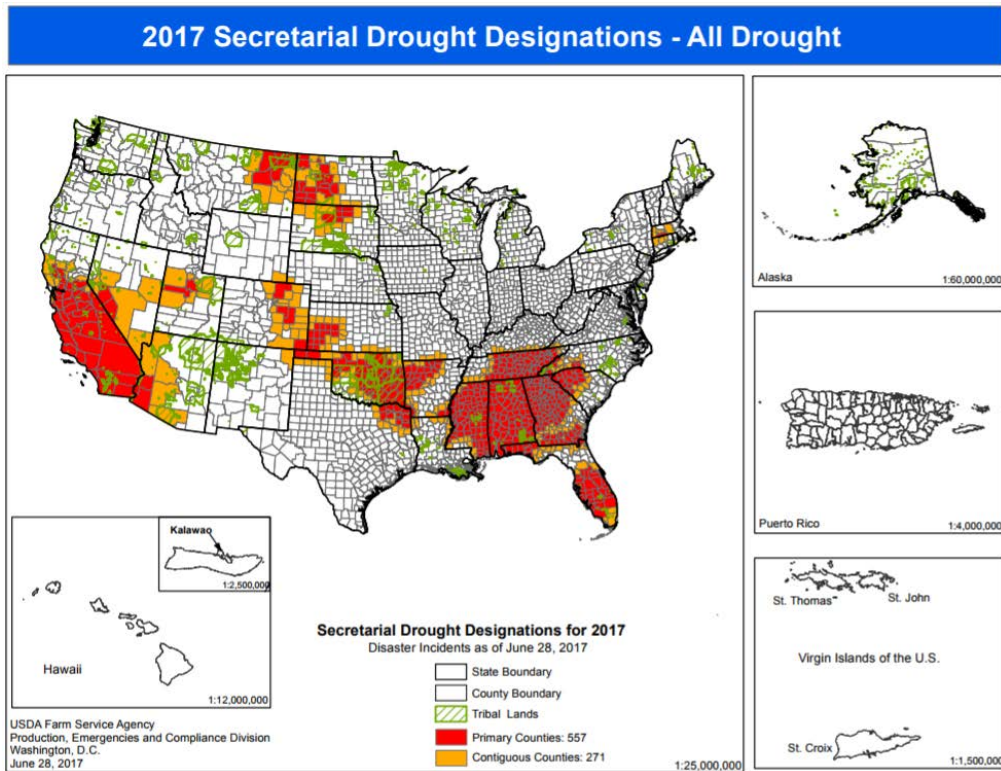
Author: David Simeral, Western Regional Climate Center

"This U.S. Drought Monitor week saw scattered showers and thunderstorm activity across portions of the central and southern Plains, Gulf Coast, lower Midwest, northern half of New England and the Southeast. Heavy rainfall was observed across northern Missouri where severe thunderstorms produced widespread accumulations ranging from 3 to 5 inches as well as two isolated areas receiving 8 to 10 inches. In the southern Plains, some improvement in drought conditions occurred in southeastern Oklahoma where 4 to 11 inches of rain fell during the past week. In the drought-stricken northern Plains and eastern Montana, rainfall accumulations were generally less than 1 inch providing little relief. Early this week, temperatures in eastern Montana soared into the 90s exacerbating already dry conditions and further stressing crops, pastures, and rangelands. Across the remainder of the West, generally hot and dry conditions prevailed with areas of the Pacific Northwest experiencing temperatures up to 10 degrees above normal. In the desert Southwest and Great Basin, firefighters have been battling large wildland fires in Arizona, Nevada, and Utah. In the South, heavy rains fell across the Gulf Coast of Alabama, Louisiana, and Mississippi. In the Mid-Atlantic, some areas of dryness have developed in portions of Delaware, Maryland, and northern Virginia. In the Northeast, heavy rains were observed in Upstate New York as well as northern portions of New Hampshire and Vermont."

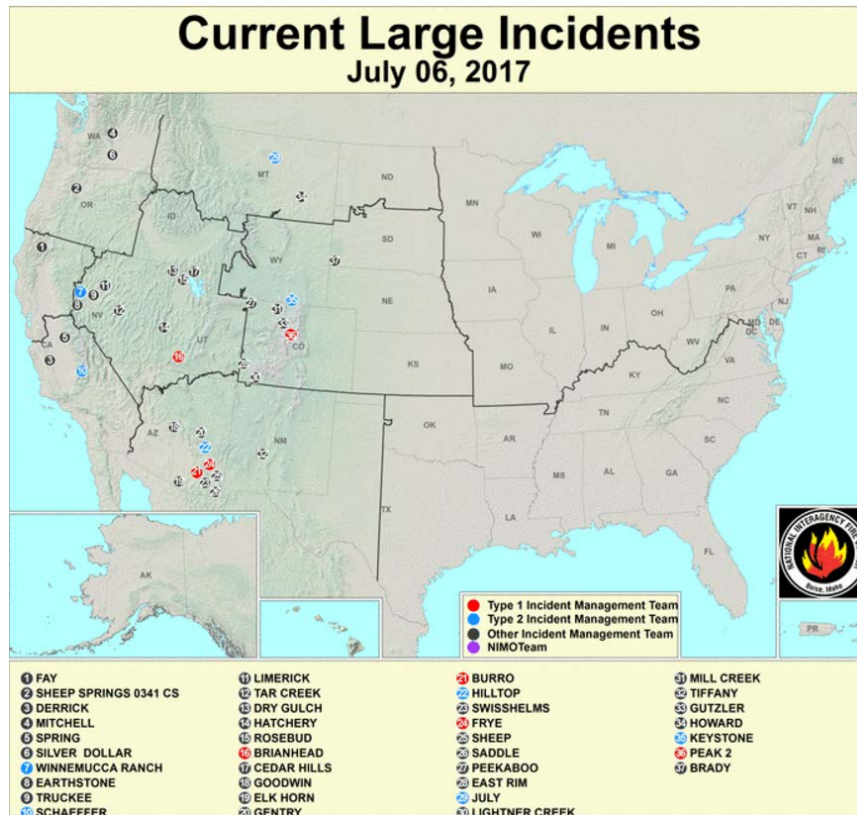
Highlighted Drought Resources

- [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](#)

USDA 2017 Secretarial [Drought Designations](#)

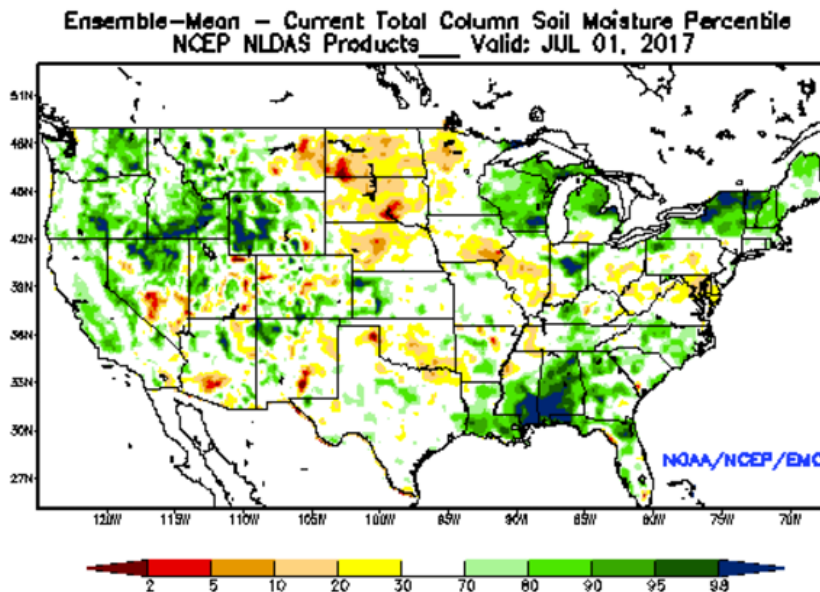


Wildfires: [USDA Forest Service Active Fire Mapping](#)



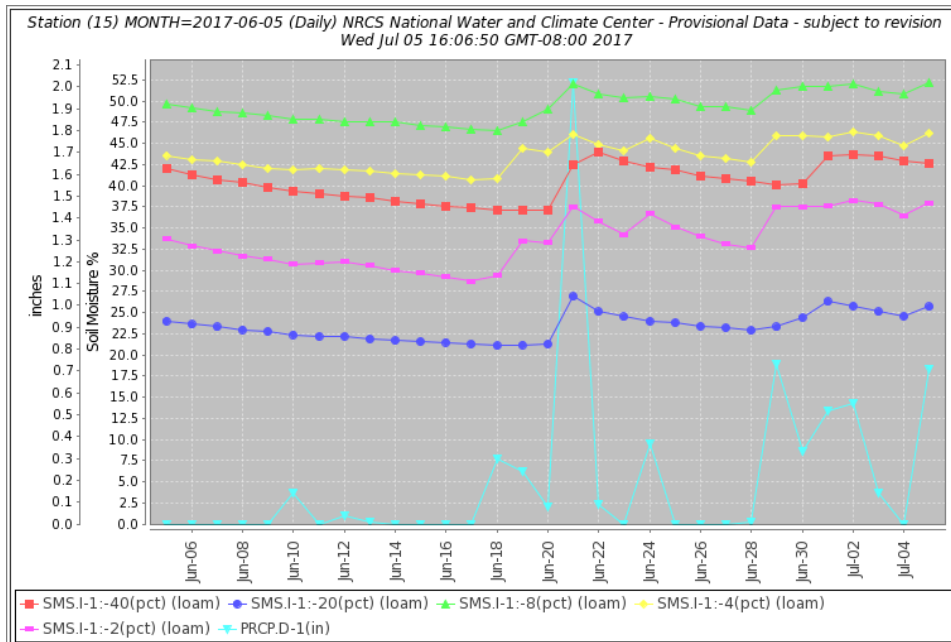
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of July 1, 2017.

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



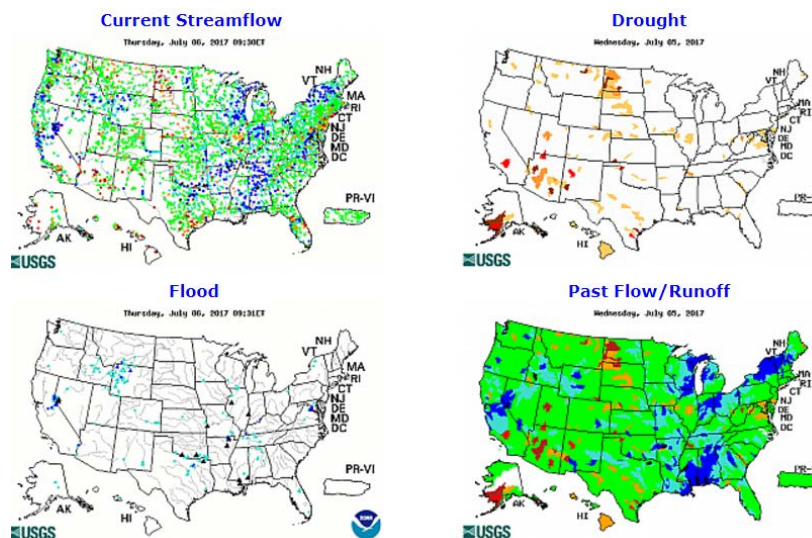
Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the past 30 days at the [Maricao Forest SCAN Site 15](#) in Puerto Rico. The dry period at the beginning of June saw a decrease in soil moisture at all depths. The rain event starting on June 18 saw soil moisture increases at the 2-, 4-, and 8-inch sensors. This was followed with a 2-inch rainfall event on June 21 that saw soil moisture increases at all depths. The subsequent rain events on the June 29 – July 5 also saw soil moisture increases at all 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

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:

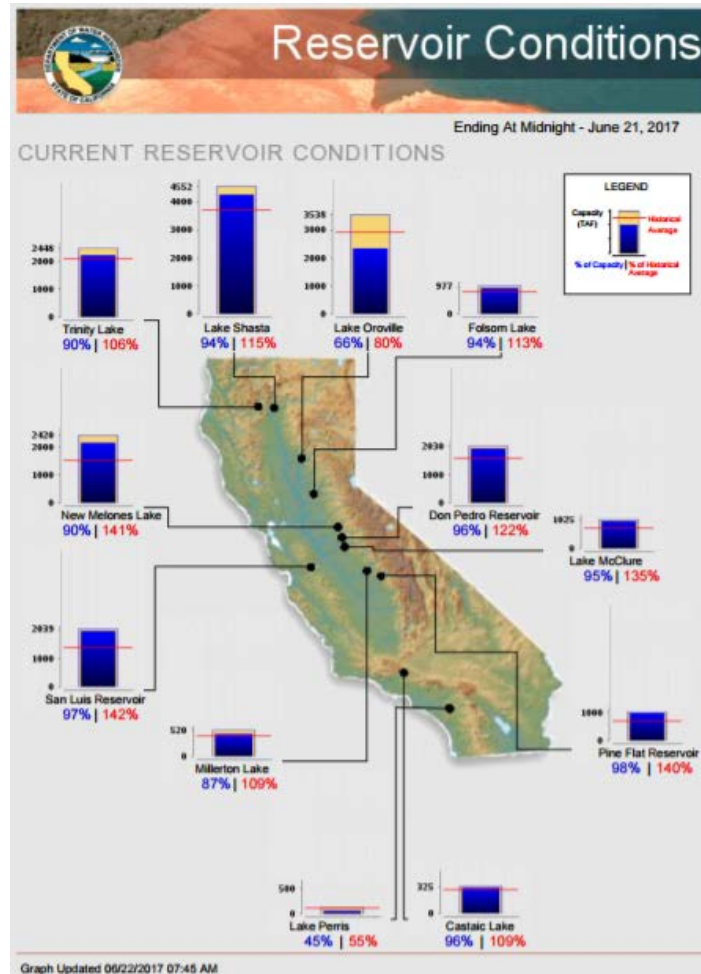
[Upper Colorado](#)

[Pacific Northwest/Snake/Columbia](#)

[Sevier River Water, Utah](#)

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

[California Current Reservoir Conditions](#)



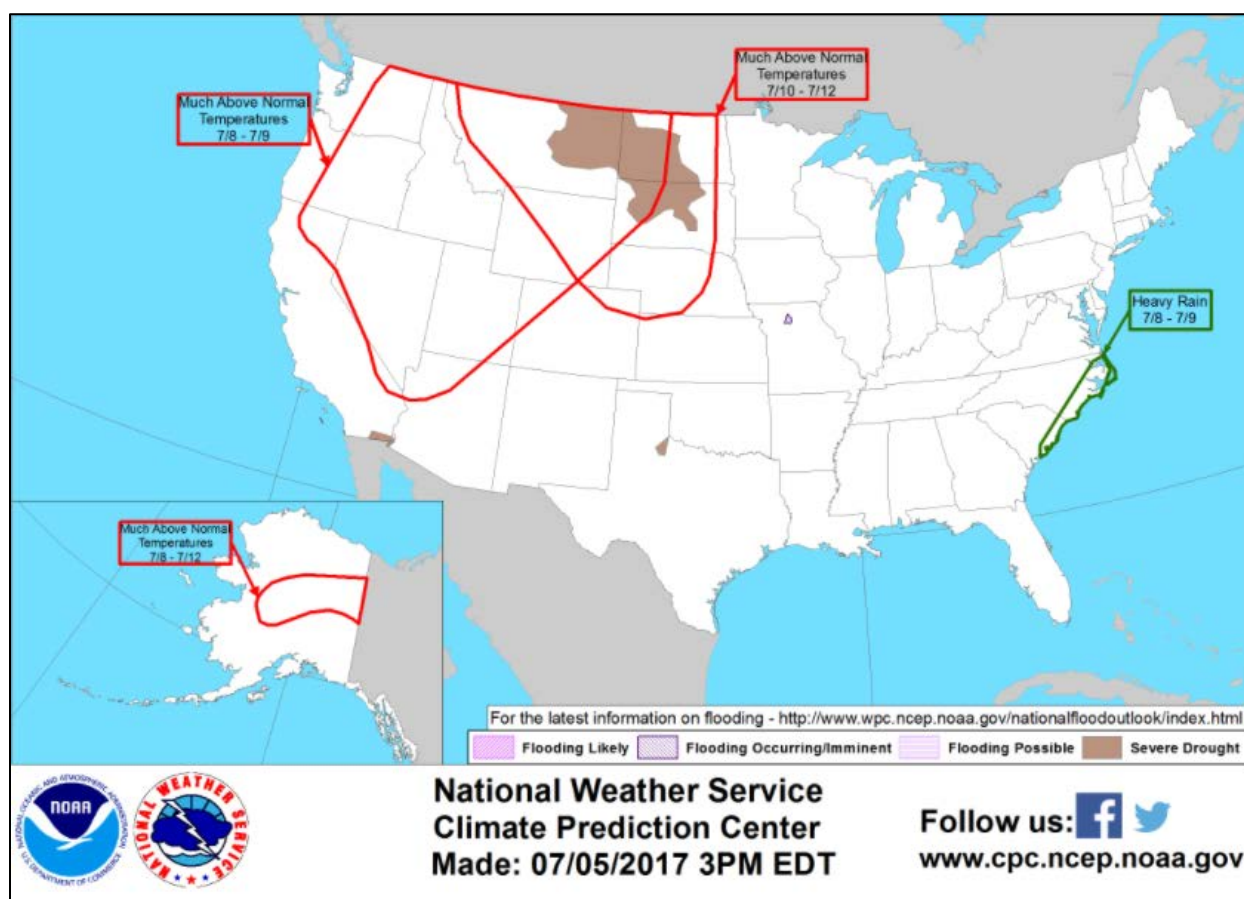
Short- and Long-Range Outlooks

Agricultural Weather Highlights

Authors: Brad Rippey and Seth Cohen, Meteorologists, USDA/OCE/WAOB

[National Outlook, Thursday, July 6, 2017](#): “Generally active weather will continue for the remainder of the week across the eastern one-third of the country, with 5-day totals expected to reach 1 to 3 inches in many areas. Localized totals of at least 2 to 4 inches are possible in the Mid-Atlantic States. Spotty showers and thunderstorms will also affect the northern Plains, though minimal drought relief can be expected in Montana and the Dakotas—in part due to extremely hot weather. Hot, mostly dry weather will also prevail in the West, with heat occasionally spilling into the nation’s mid-section. As the week progresses, monsoon-related showers should begin to increase in coverage across the Southwest. The NWS 6- to 10-day outlook for July 11 – 15 calls for near- to above-normal temperatures nationwide. Although relatively normal conditions can be expected across the eastern one-third of the country, the drought-stricken northern Plains will have the greatest likelihood of hot weather. Meanwhile, below-normal rainfall across the Plains and Northwest should contrast with wetter-than-normal weather in the Southwest and east of the Mississippi River.”

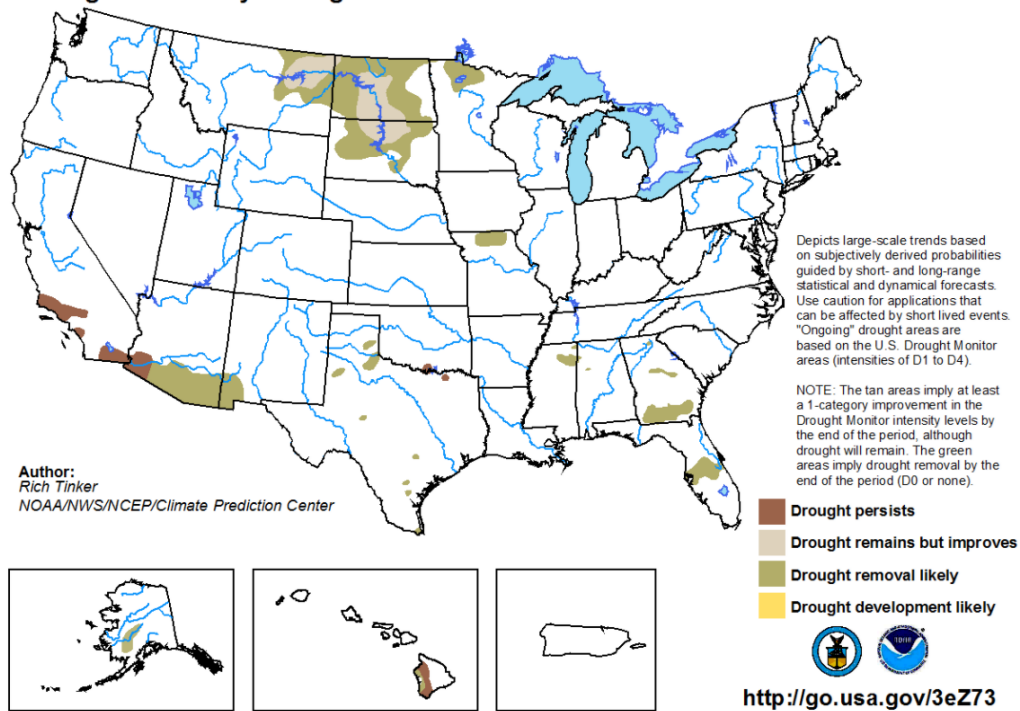
NWS Climate Prediction Center Weather Hazard Outlook: [July 8 - 12, 2017](#)



NWS Seasonal Drought Outlook: [June 15 - September 30, 2017](#)

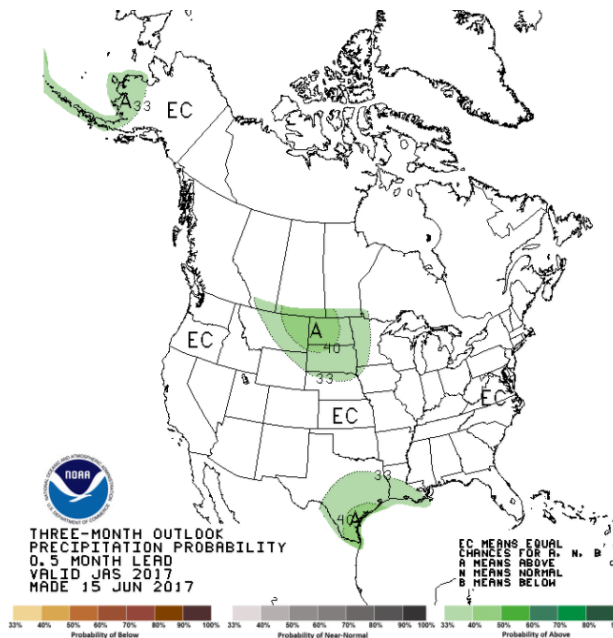
U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

Valid for June 15 - September 30, 2017
Released June 15, 2017

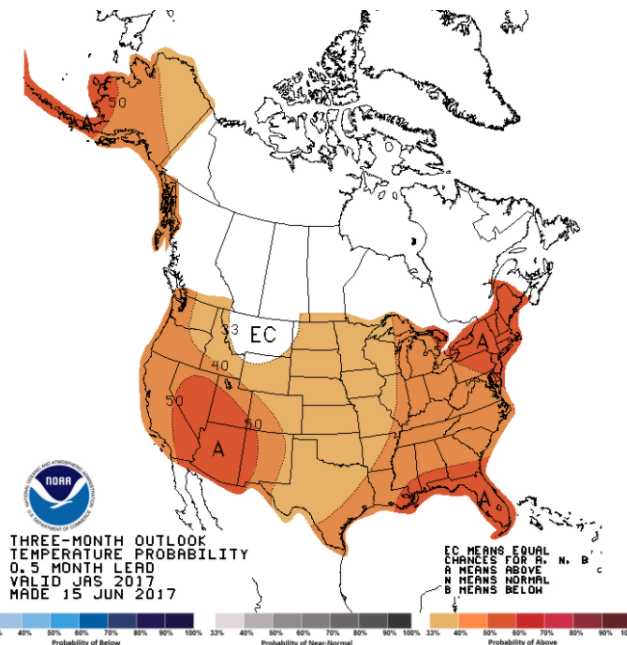


NWS Climate Prediction Center 3-Month Outlook

[Precipitation](#)



[Temperature](#)



[July-August-Sep \(JAS\) 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](#).