

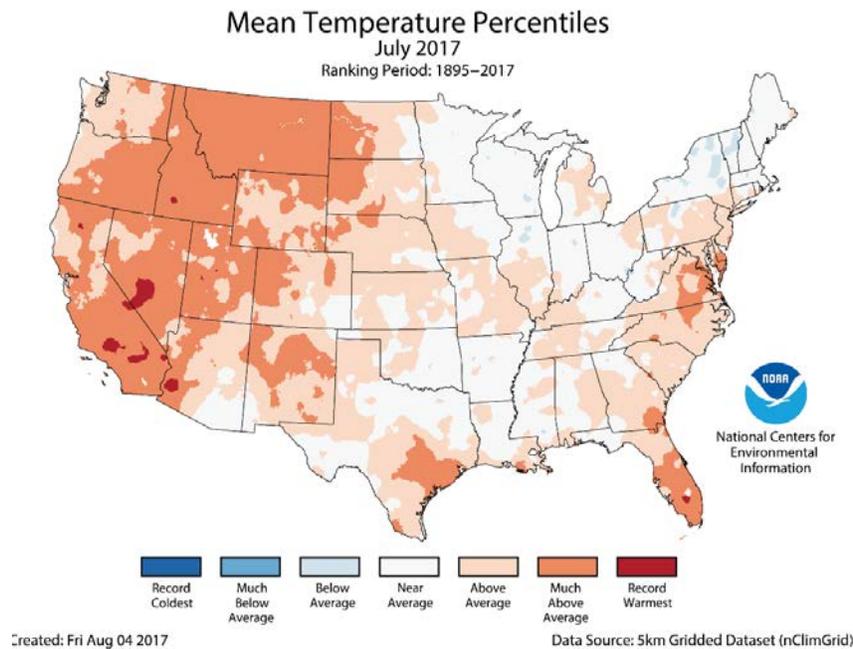
Water and Climate Update

August 10, 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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Elevated July temperatures boost 2017 to second highest on record



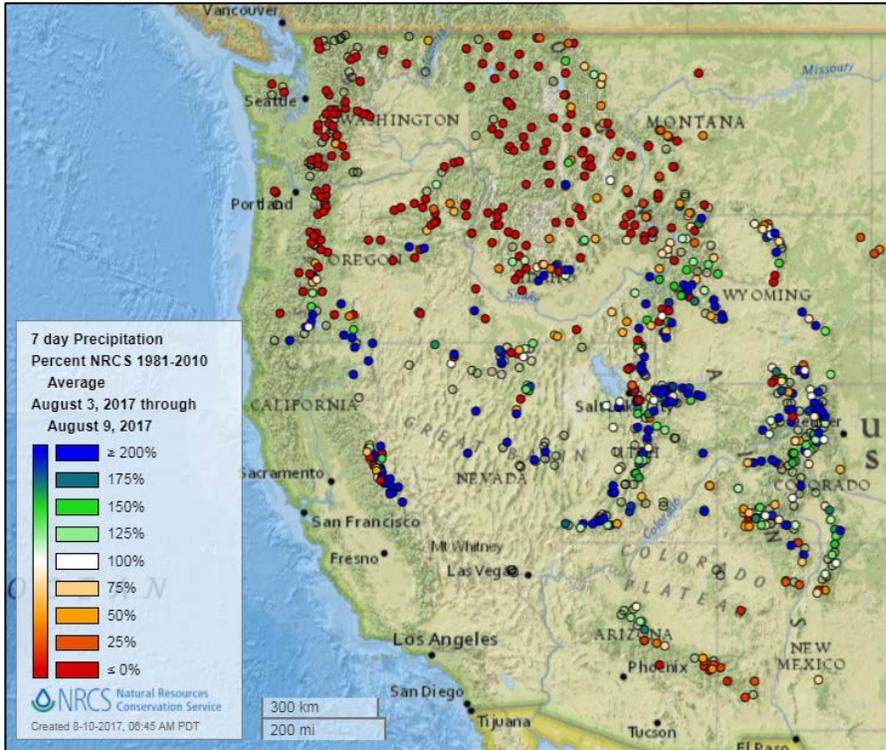
The NOAA National Centers for Environmental Information reports in their [“Assessing the U.S. Climate in July 2017”](#) that, thus far in 2017, the contiguous United States recorded its second warmest year on record. The national average temperature for July was 75.7 degrees Fahrenheit, making it the 10th warmest in the 123-year record. Death Valley, California, topped the list with a new July record of 107.4 degrees, joining other cities such as Bakersfield, California, Reno, Nevada, and Salt Lake City, Utah, which all had record high temperatures for July. While the West was the largest warm area in the nation, the upper Midwest and Northeast were near normal to cooler than normal in July.

Related:

- [United States on track to experience second warmest year ever](#)
- [Death Valley’s Average Temperature In July was 107.4 — A New Record Western Hemisphere](#)
- [Death Valley had hottest month ever in Western Hemisphere in July](#)
- [If you thought July felt like the hottest month ever, you’re right](#)
- [July weather was “exceptionally” hot and dry — except where it flooded](#)
- [July Was Record Hot for Parts of Alaska and the West](#)

Precipitation

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

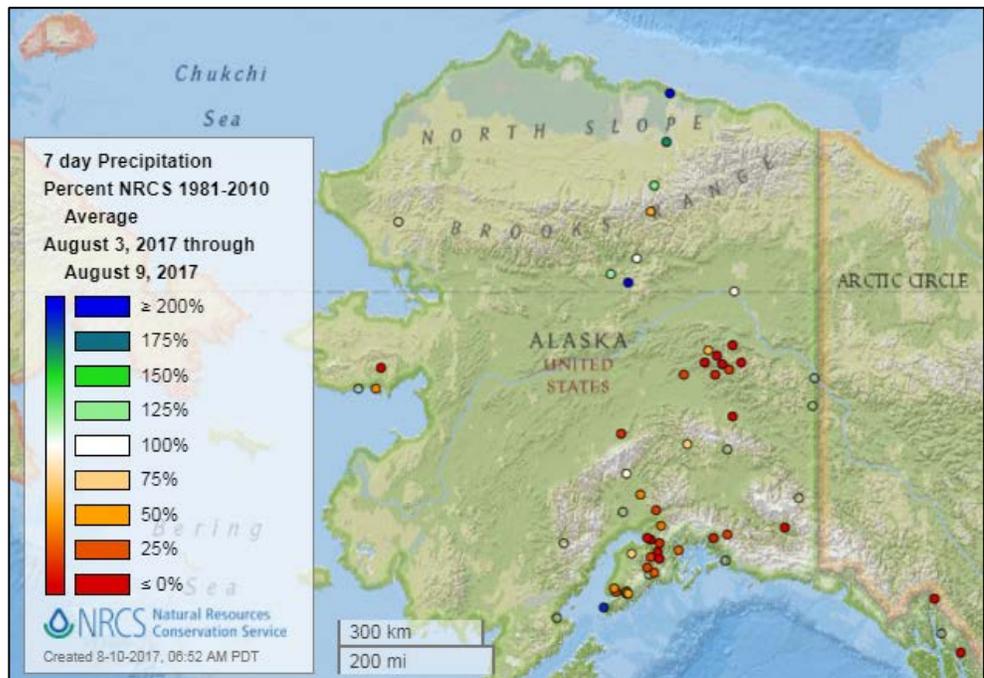


[7-day precipitation percent of average map](#)

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](#)



Water and Climate Update

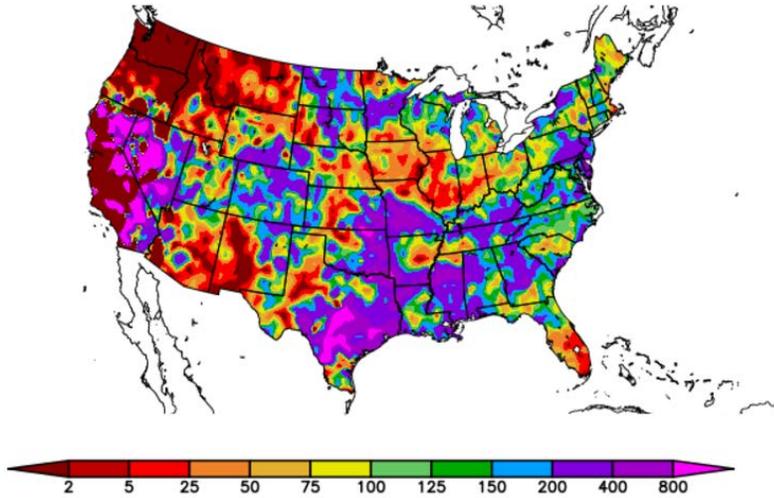
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
8/3/2017 – 8/9/2017



Generated 8/10/2017 at HPRCC using provisional data.

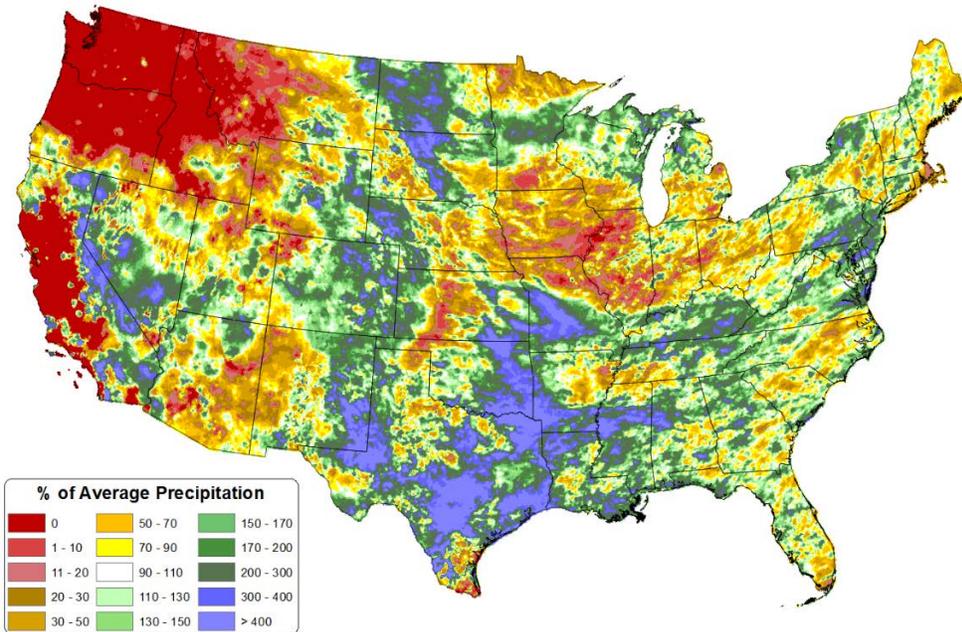
NOAA Regional Climate Centers

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

Source: PRISM

Total Precipitation Anomaly: 01 August 2017 - 09 August 2017
Period ending 7 AM EST 09 Aug 2017
Base period: 1981-2010
(Map created 10 Aug 2017)

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

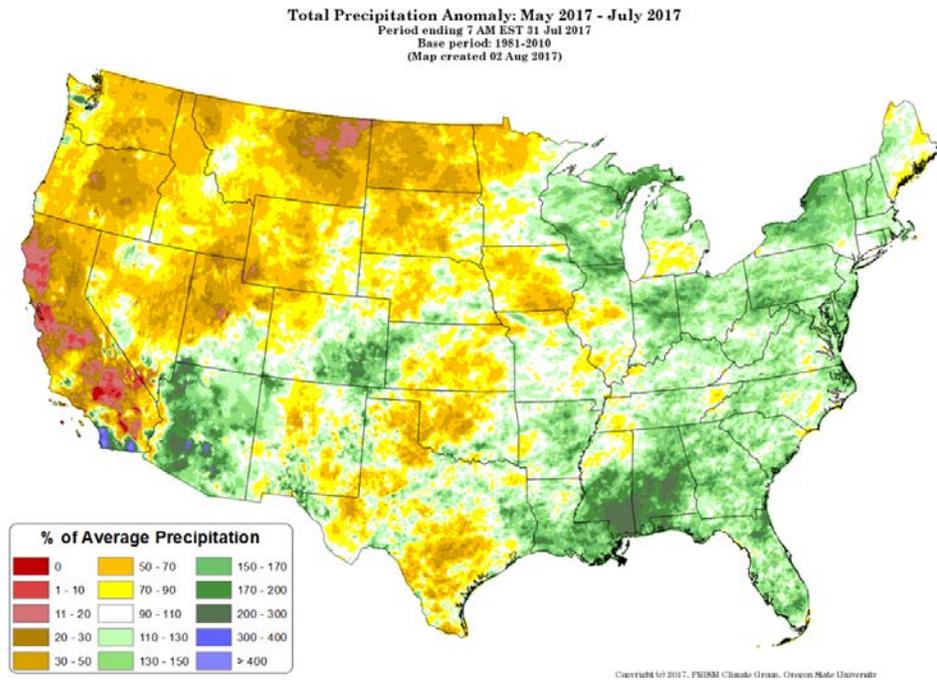


Copyright © 2017, PRISM Climate Group, Oregon State University

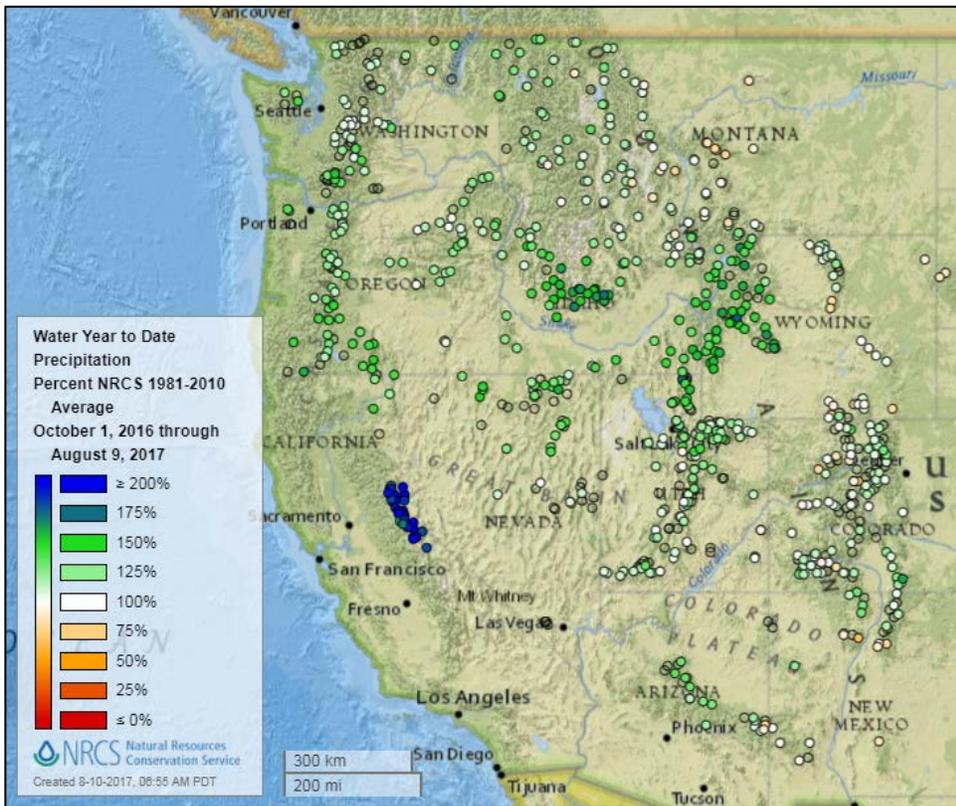
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[May through July 2017 daily mean precipitation anomaly map](#)



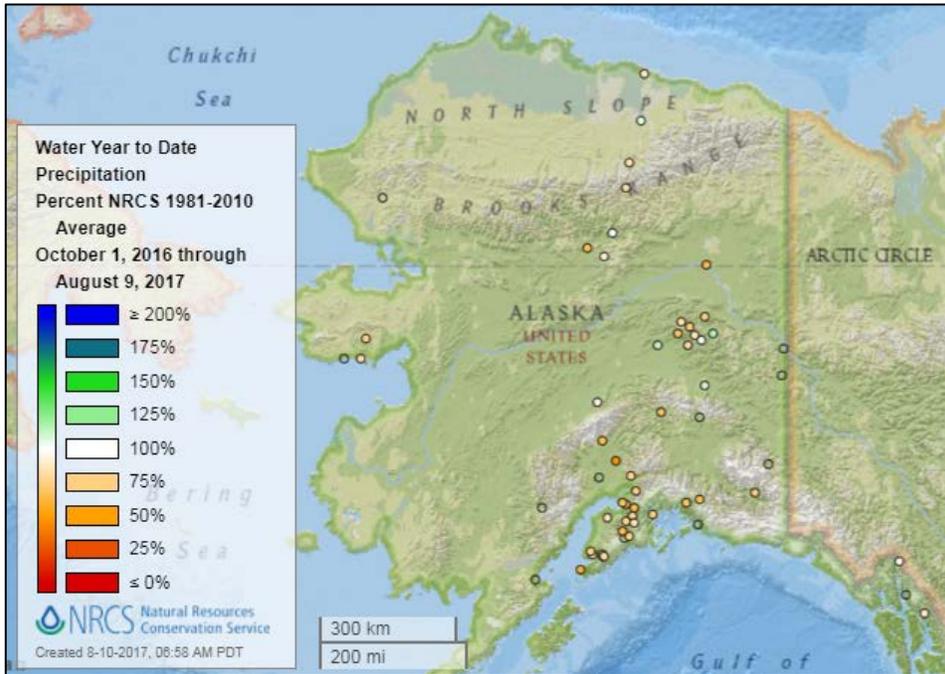
Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



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

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

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

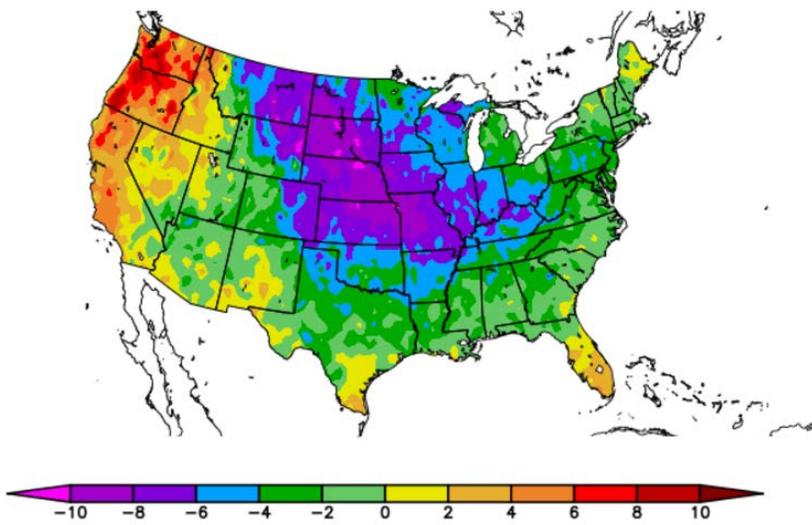
Last 7 Days, National Weather Service (NWS) Networks

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)
8/3/2017 – 8/9/2017



Generated 8/10/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

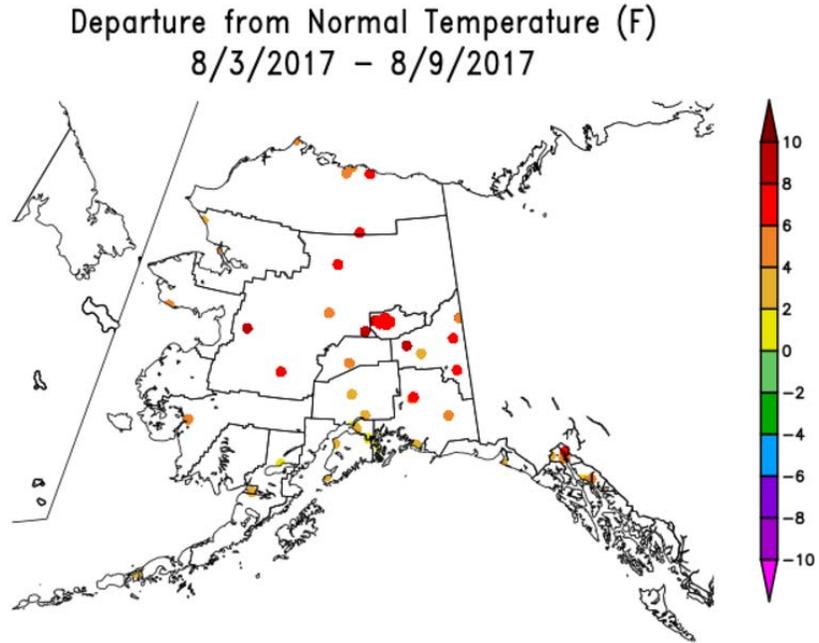
Water and Climate Update

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](#)



Generated 8/10/2017 at HPRCC using provisional data.

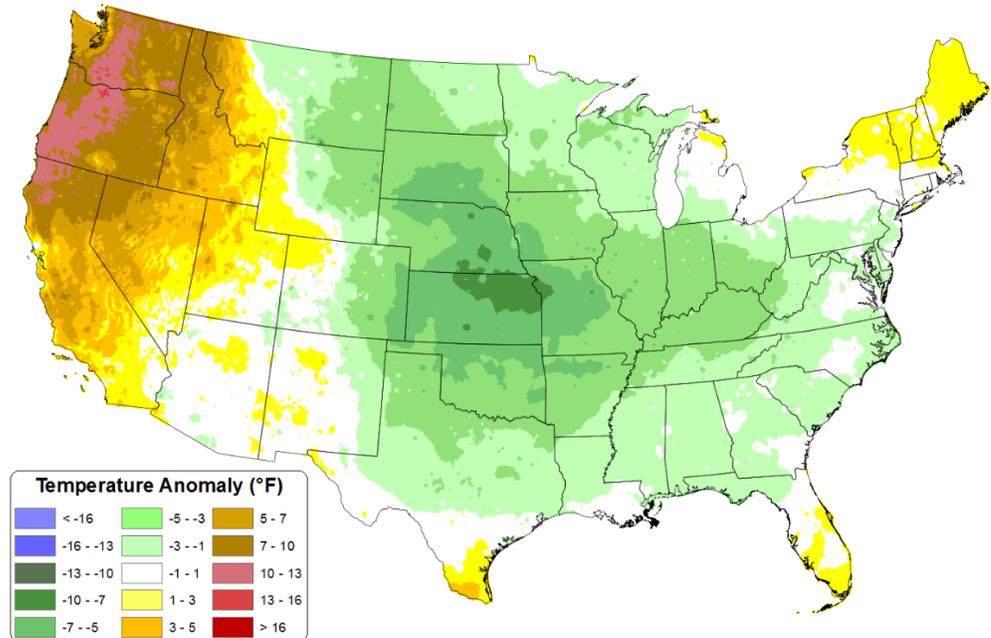
NOAA Regional Climate Centers

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

Source: PRISM

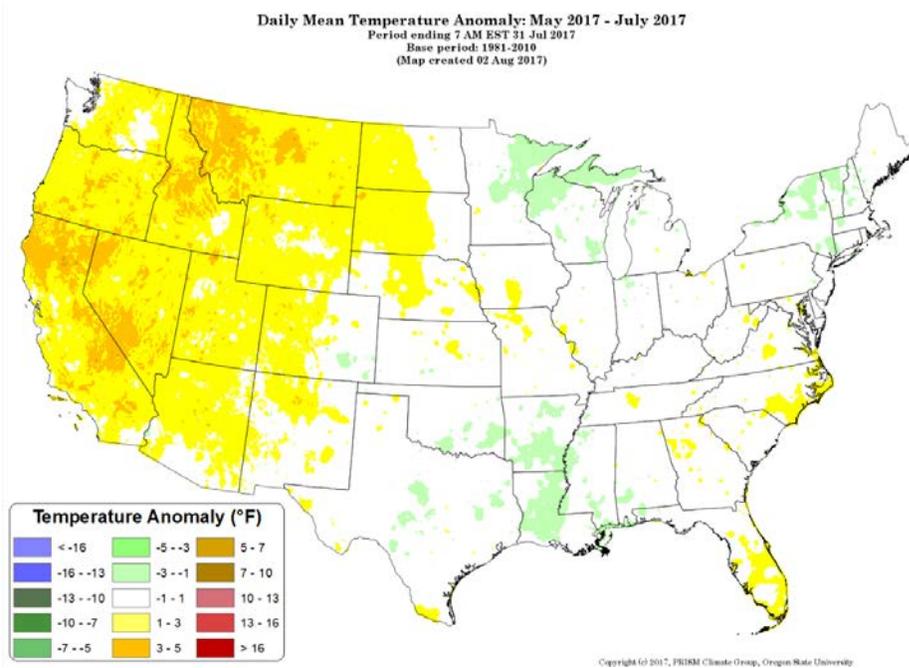
[Month-to-Date national daily mean temperature anomaly map](#)

Daily Mean Temperature Anomaly: 01 August 2017 - 09 August 2017
Period ending 7 AM EST 09 Aug 2017
Base period: 1981-2010
(Map created 10 Aug 2017)



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

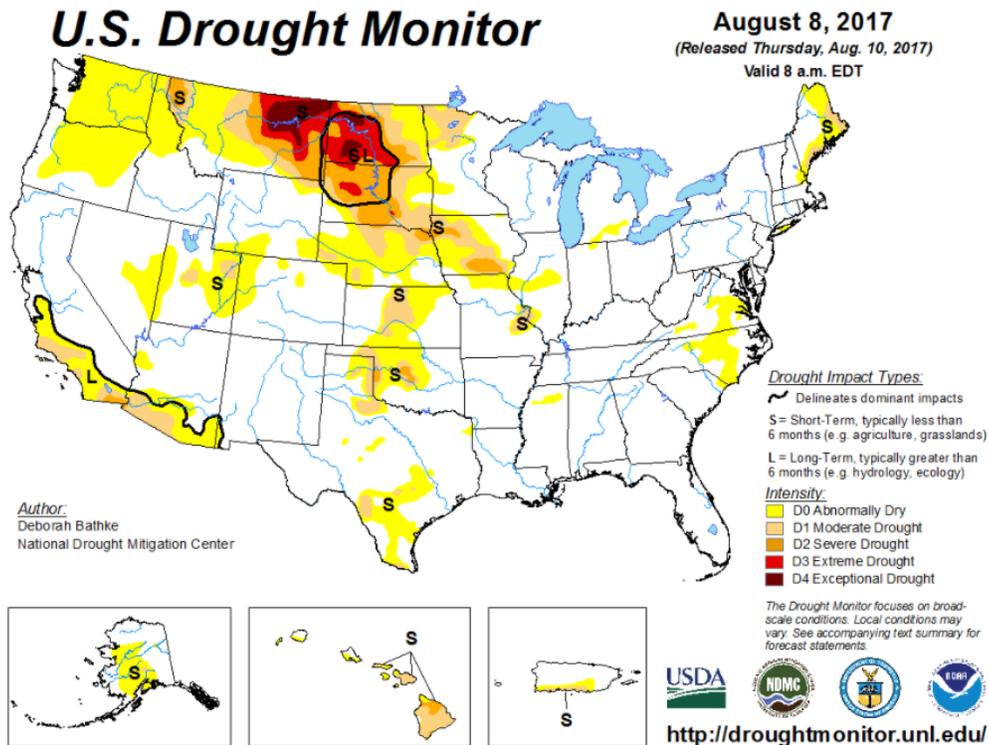
Source: PRISM



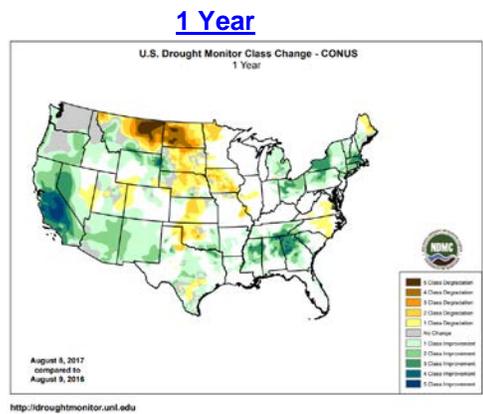
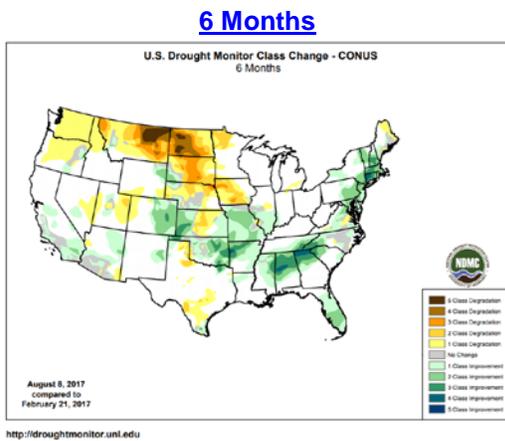
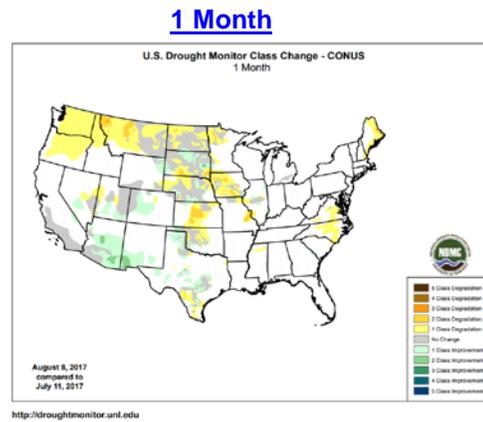
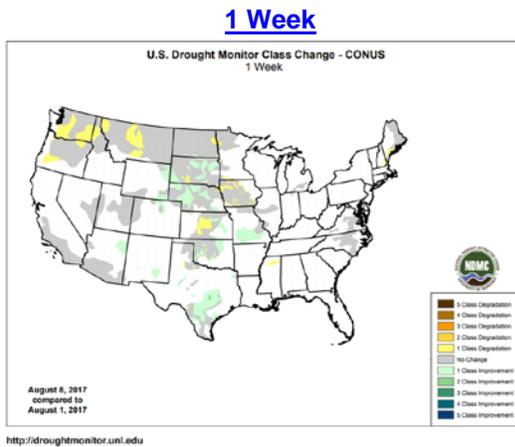
[May through July 2017 daily mean temperature anomaly map](#)

Drought

[U.S. Drought Monitor](#) Click on 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](#), August 8, 2017

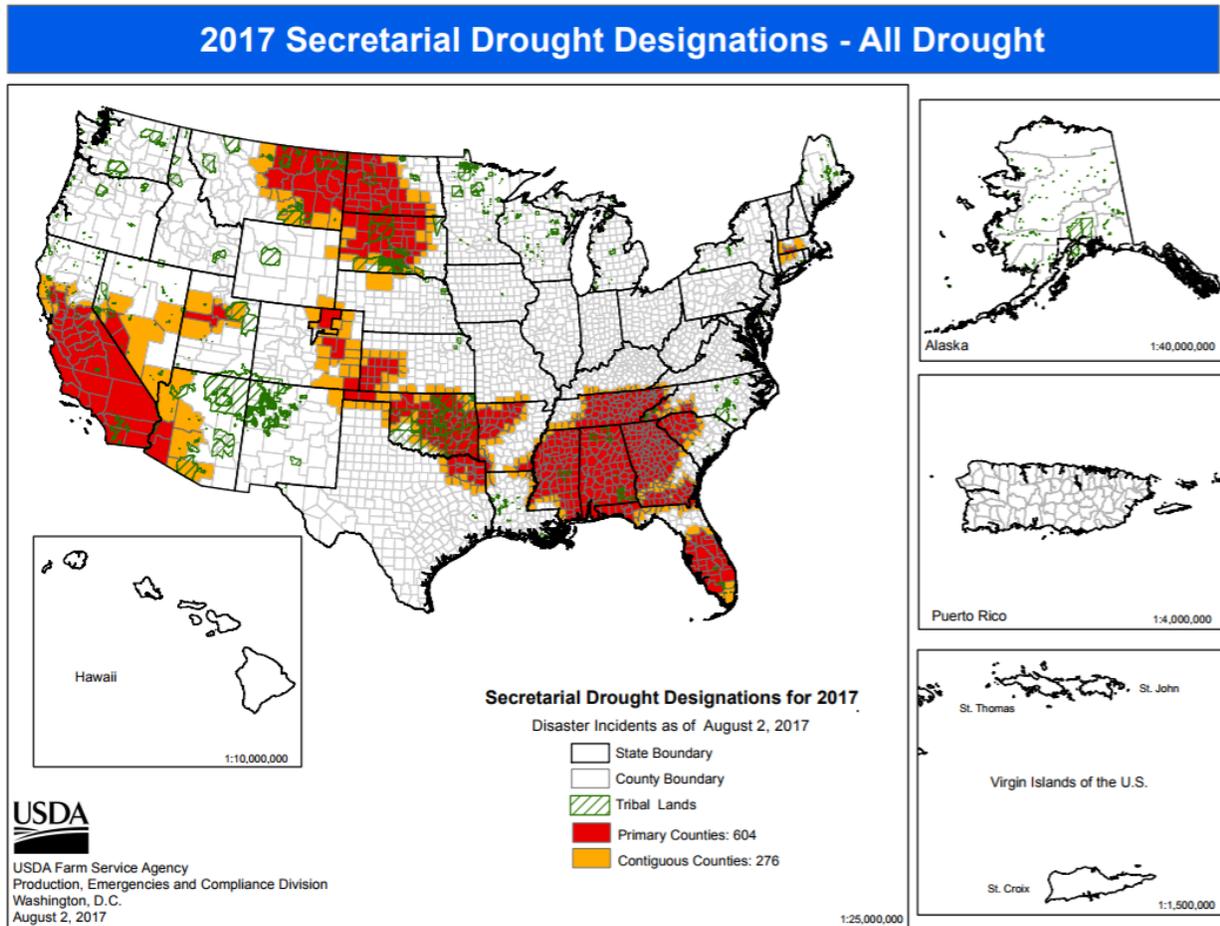
Author: Deborah Bathke, National Drought Mitigation Center

“This week was marked by torrential rains and flooding in cities such as New Orleans, Houston, Kansas City, and Las Vegas. Heavy rainfall over the Gulf Coast and into the Mid-South kept drought conditions at bay while scattered showers and thunderstorms over the southern Rockies erased pockets of abnormally dry conditions. In the drought-afflicted Plains, rains brought relief to a few areas, slowed deterioration in others, and had minimal impact on areas suffering from long-term impacts. Once again, rain bypassed the Pacific Northwest, where record-breaking high temperatures and the prolonged dry spell deteriorated drought conditions.”

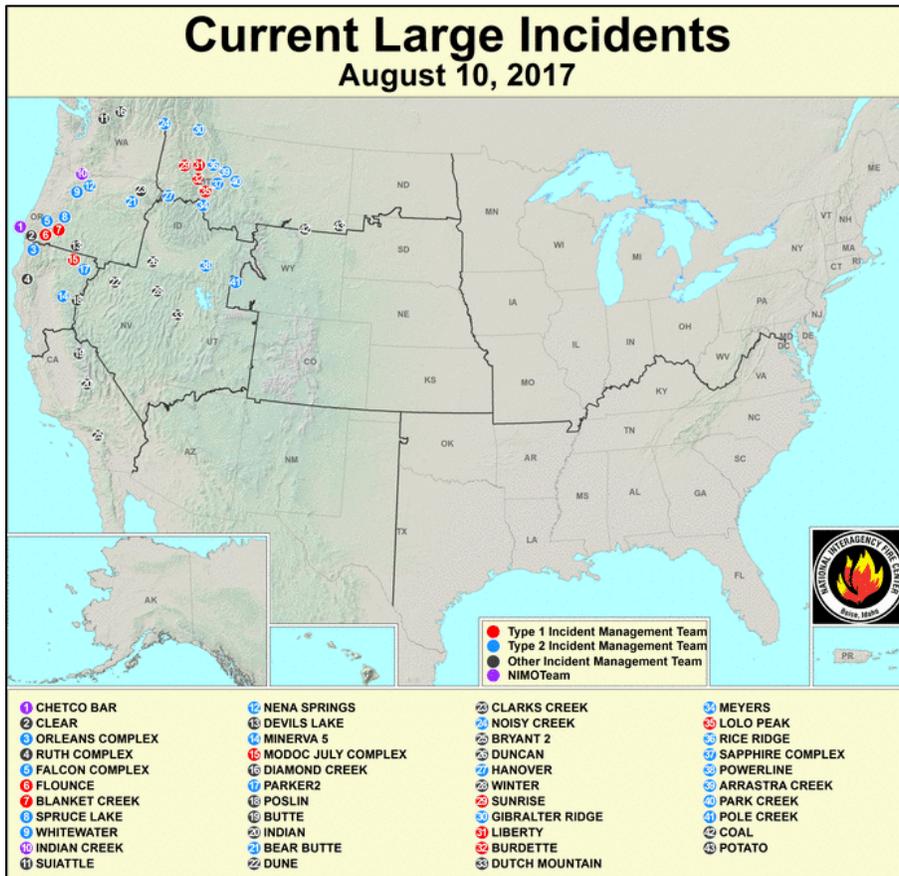
Highlighted Drought Resources

- [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](#)

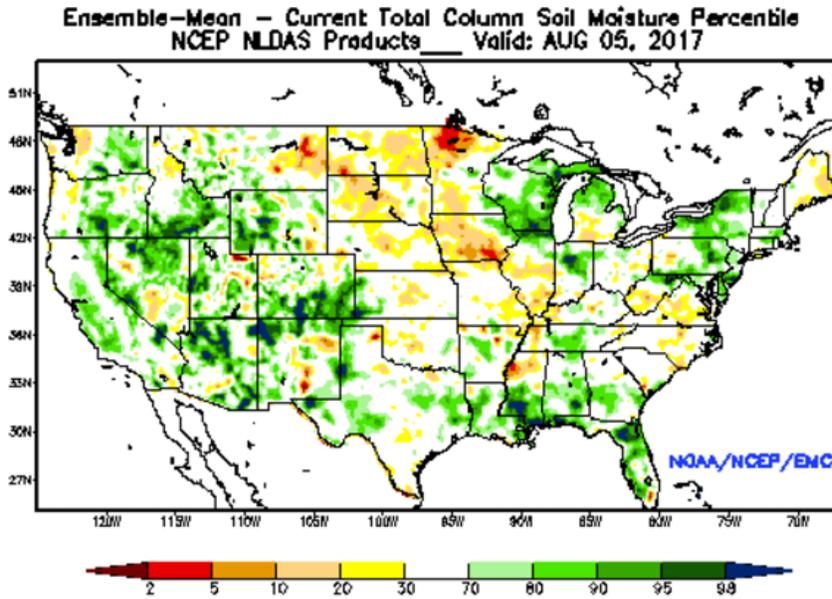


Highlighted Wildfire Resources

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

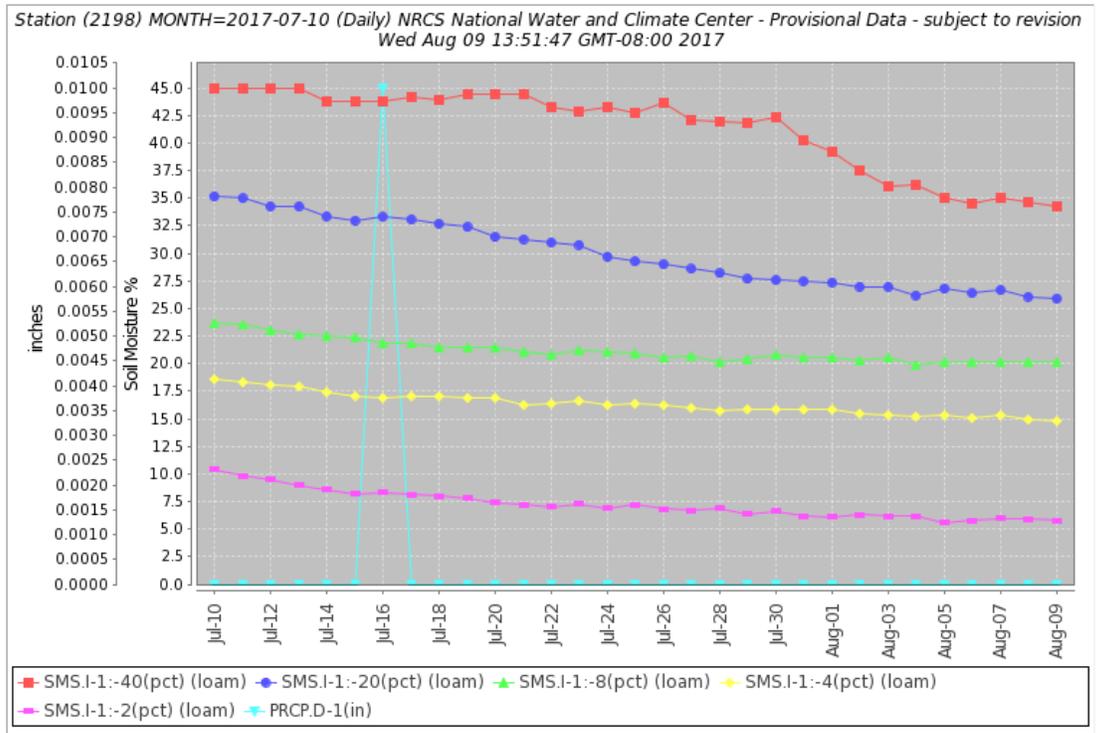
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of August 5, 2017.

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



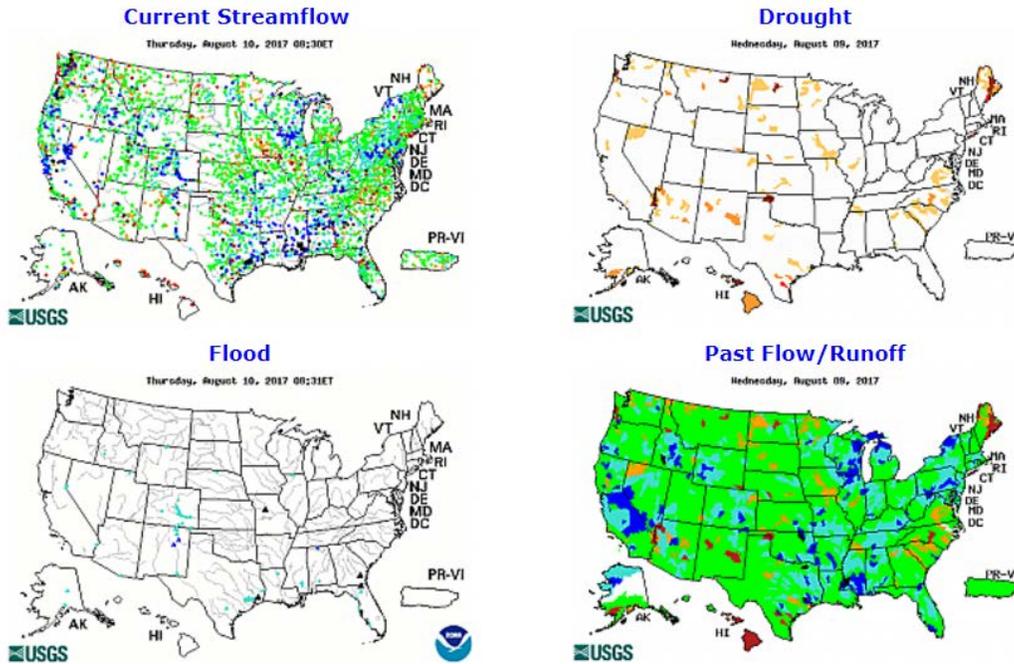
The chart shows precipitation and soil moisture for the last 30 days at the [Cook Farm Field D SCAN site 2198](#) in eastern Washington. A trace of rain (0.01) on July 16 was the only precipitation observed at the site, so all soil moisture sensors have been declining in soil moisture over the month.

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

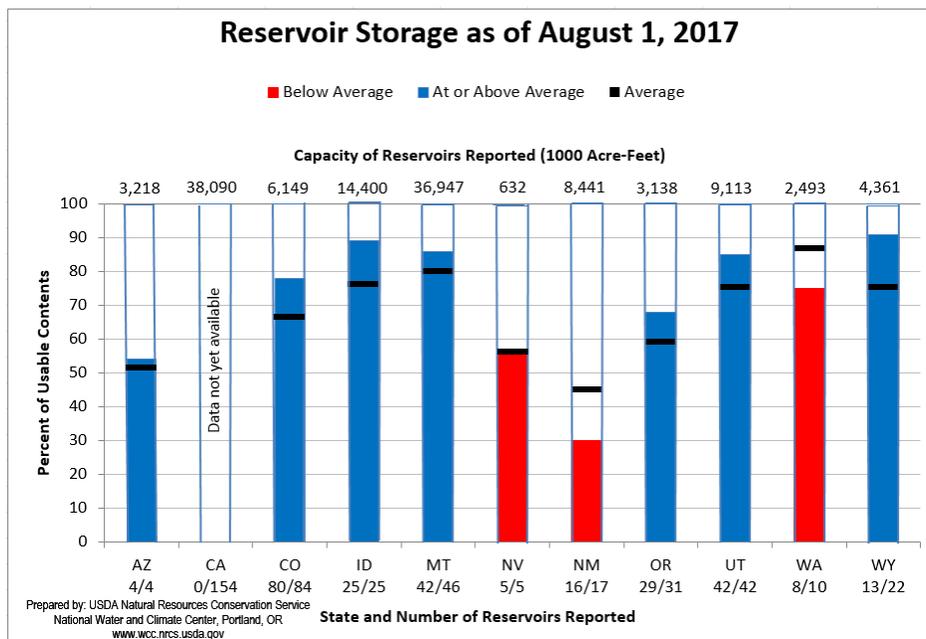


[Current streamflow maps](#) Click image to enlarge and display legends

Reservoir Storage

August 1 Western States Reservoir Storage

Source: NRCS National Water and Climate Center



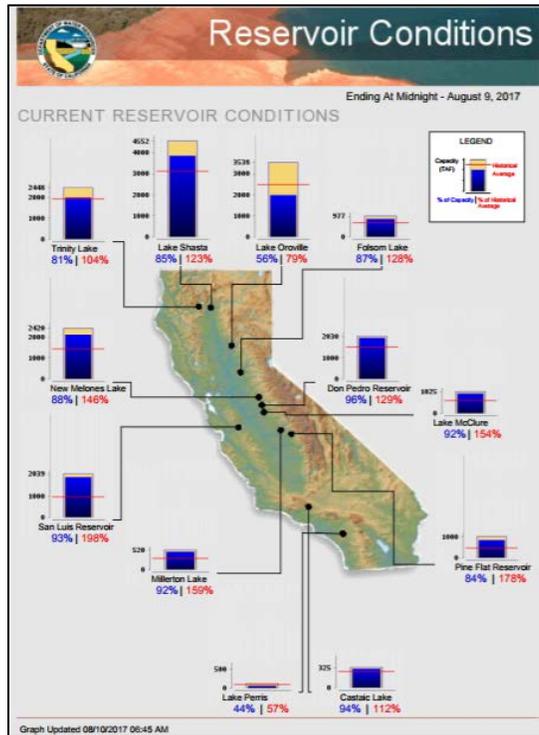
[National Water and Climate Center Reservoir Data](#)

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](#)

Current California Reservoir Conditions

Source: California Department of Water Resources



[California Current Reservoir Conditions](#)

Short- and Long-Range Outlooks

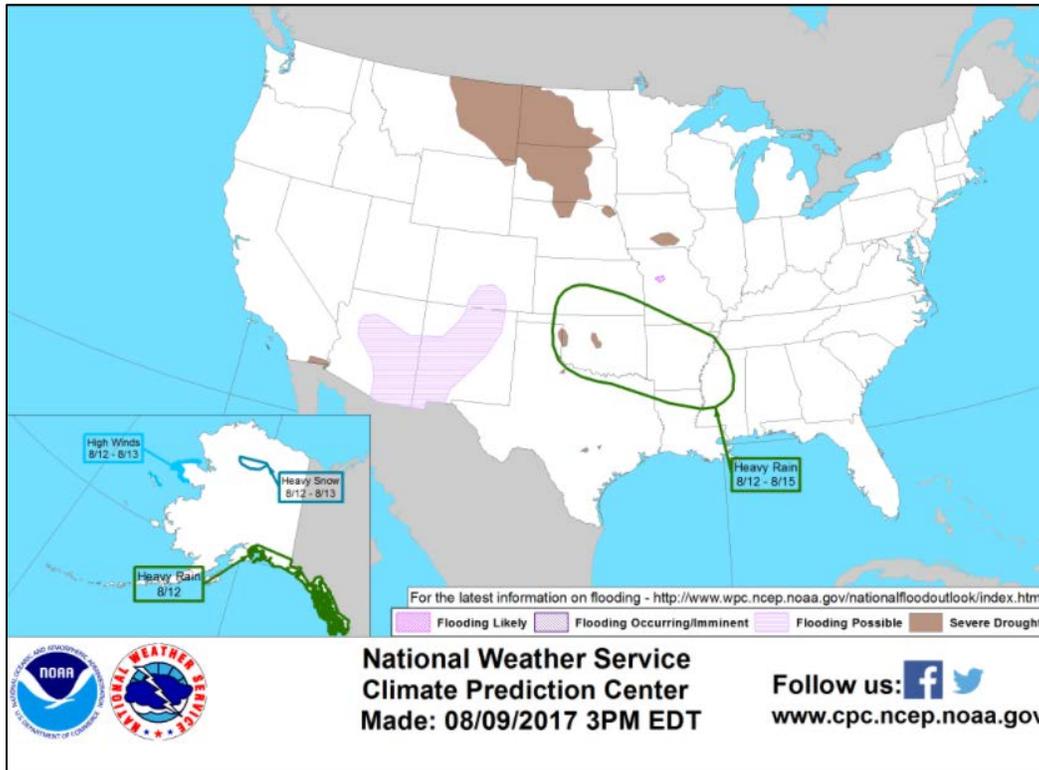
Agricultural Weather Highlights

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

[National Outlook, Wednesday, August 9, 2017](#): "Hot, mostly dry weather will continue to plague the Far West through the weekend, with ongoing degradations in air quality expected in the Northwest. Meanwhile, most other parts of the country will experience cool weather and occasional showers. Some of the heaviest showers will occur from the lower Mississippi Valley into the Southeast, where 5-day totals could reach 1 to 4 inches. Periods of heavy rain will also develop across the central and southern Plains, with 2- to 6-inch totals possible in Kansas, Oklahoma, and northern Texas. Totals could reach 1 to 2 inches across portions of the northern Plains and upper Midwest, although much of Montana will remain exceedingly dry. Elsewhere, monsoon-related showers should gradually increase in coverage and intensity across the Southwest. The NWS 6- to 10-day outlook for August 14 – 18 calls for below-normal temperatures nearly nationwide, with warmer-than-normal weather limited to Florida, southern Texas, coastal California, and the upper Great Lakes region. Meanwhile, near- to above-normal rainfall across most of the U.S. should contrast with drier-than-normal conditions across southern Texas, along the northern Atlantic Coast, and in parts of the Southwest."

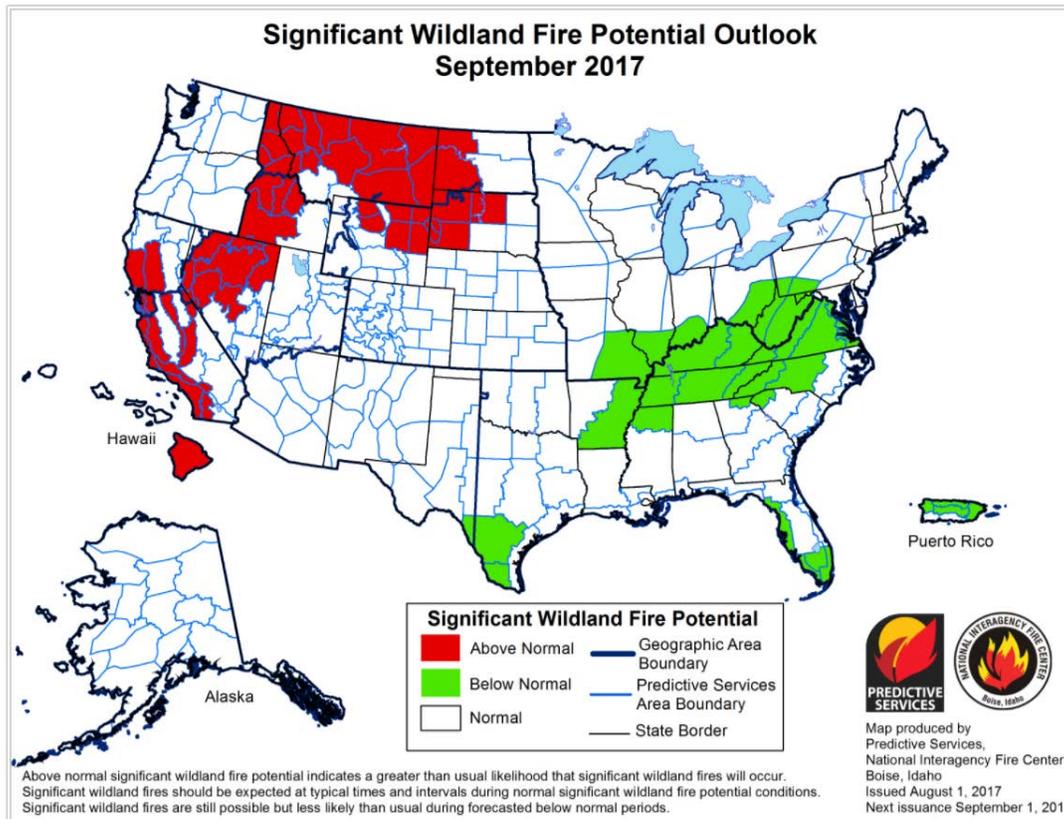
Weather Hazard Outlook [August 12 - 16, 2017](#)

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

Source: National Interagency Fire Center

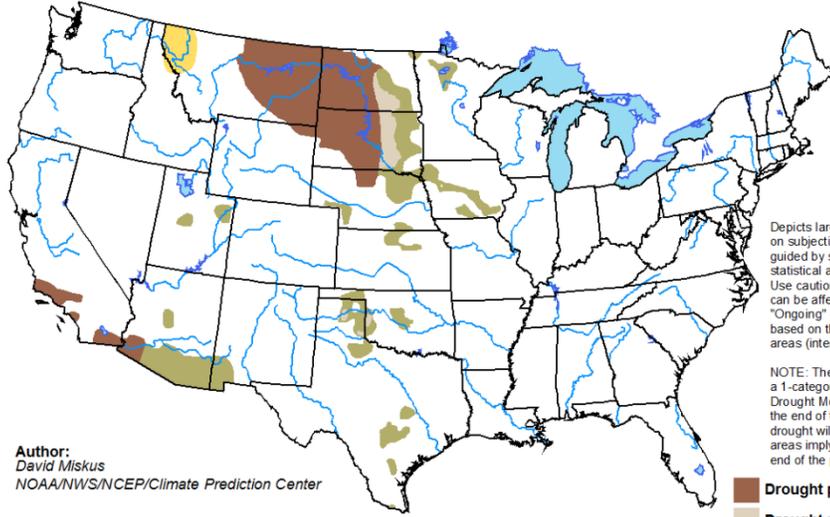


Seasonal Drought Outlook: [July 20 - October 31, 2017](#)

Source: National Weather Service

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

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



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



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

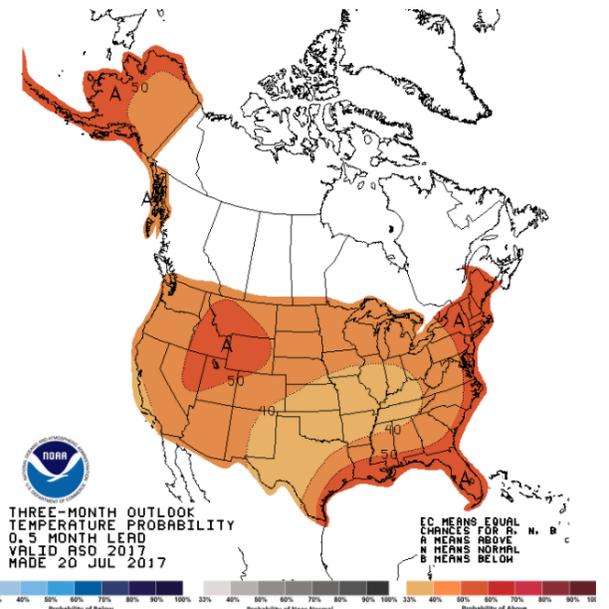
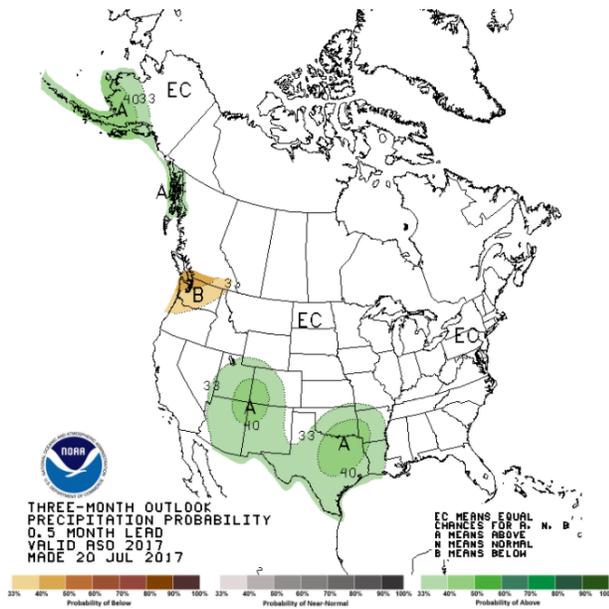


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[Aug-Sep-Oct \(ASO\) 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](#).