



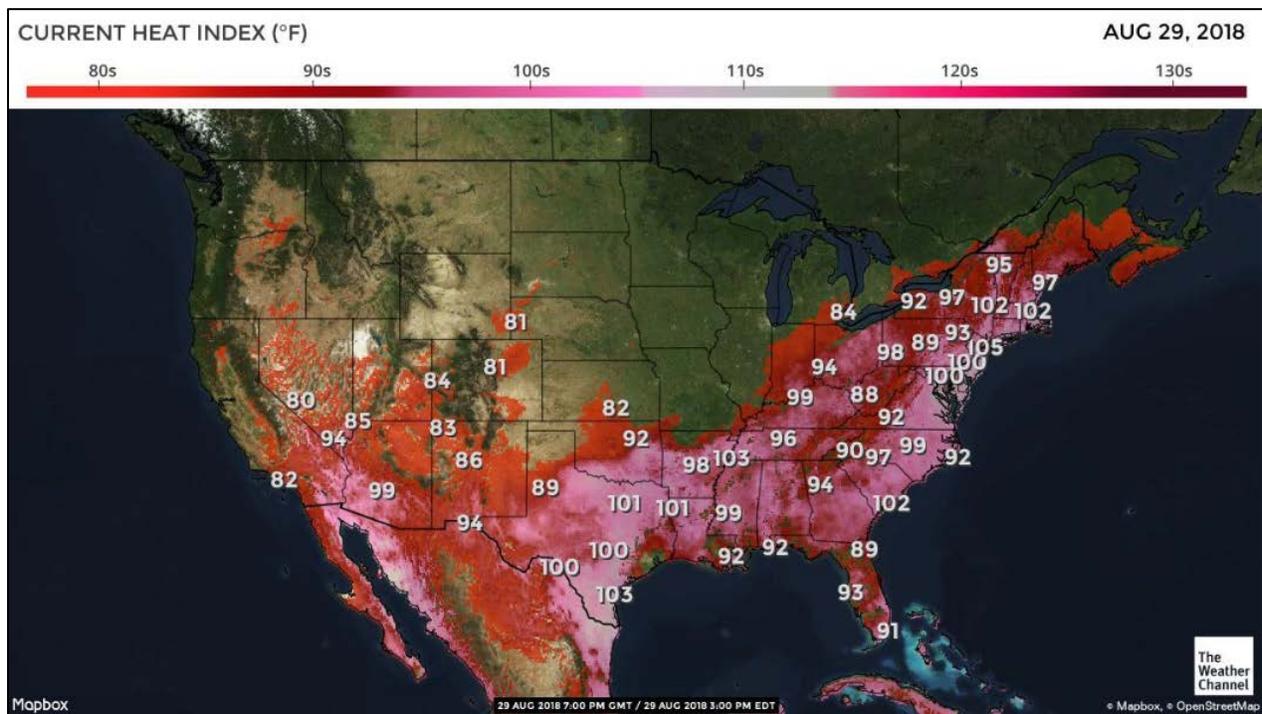
Water and Climate Update

August 30, 2018

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.

Precipitation	1	Other Climatic and Water Supply Indicators	12
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Hot, humid weather continues; relief in sight



The [heat index](#) map for Wednesday, August 29, shows hot, humid conditions across much of the South and Eastern U.S. The National Weather Service forecast shows a cold front moving into the Northeast by Friday, bringing relief to this region.

Related:

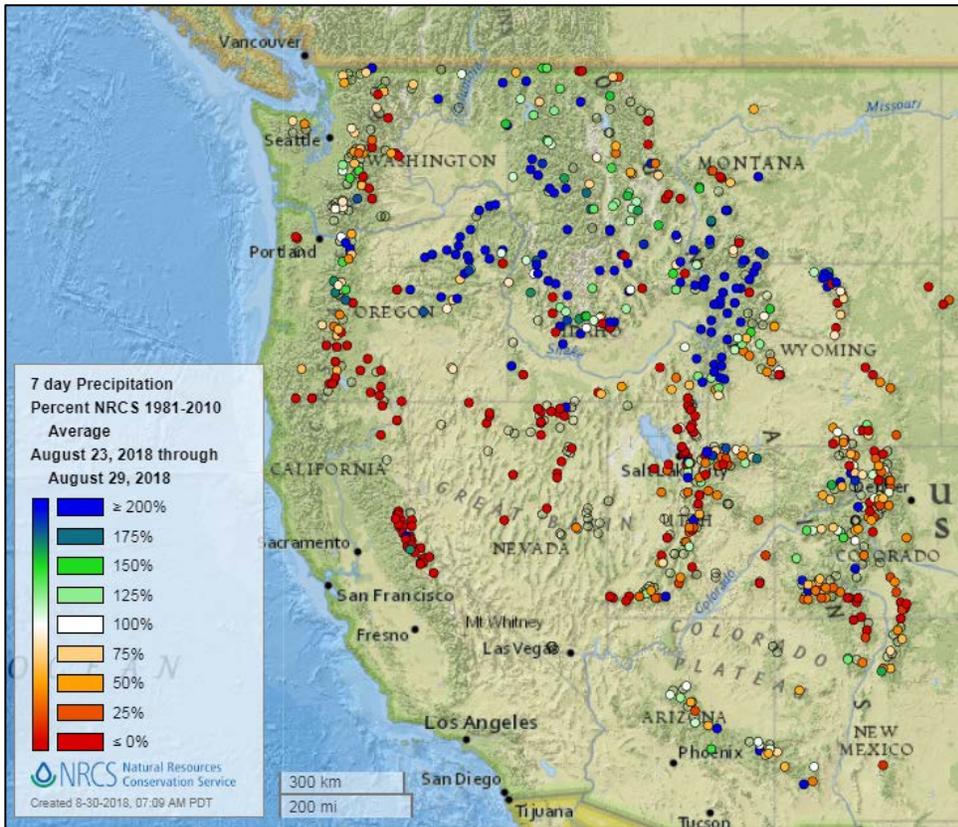
[Northeast finally cooling off as a new storm moves to the Midwest](#) -- ABC News

[Millions under heat advisories in the Northeast](#) -- CBS News

[Northeast summer heat, humidity to fade but not dramatically come Labor Day Weekend](#) -- Accuweather

Precipitation

Last 7 Days, NRCS SNOTEL Network

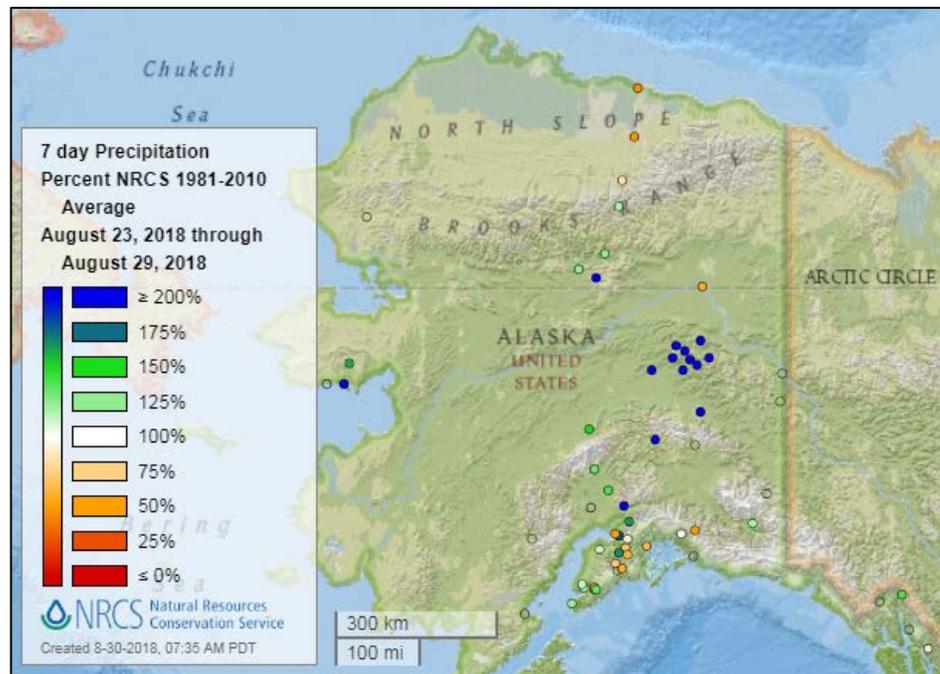


[7-day precipitation percent of average map](#)

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](#)



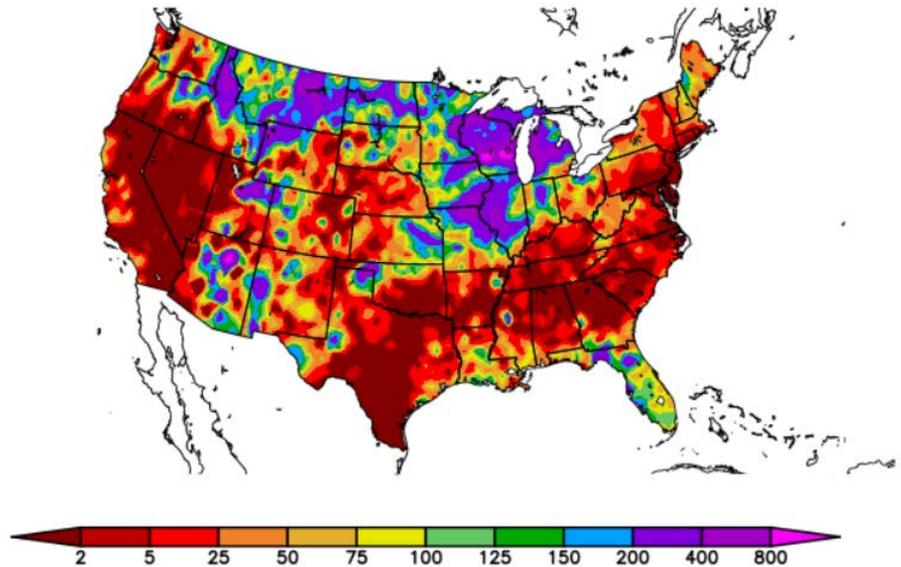
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
8/23/2018 – 8/29/2018



Generated 8/30/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

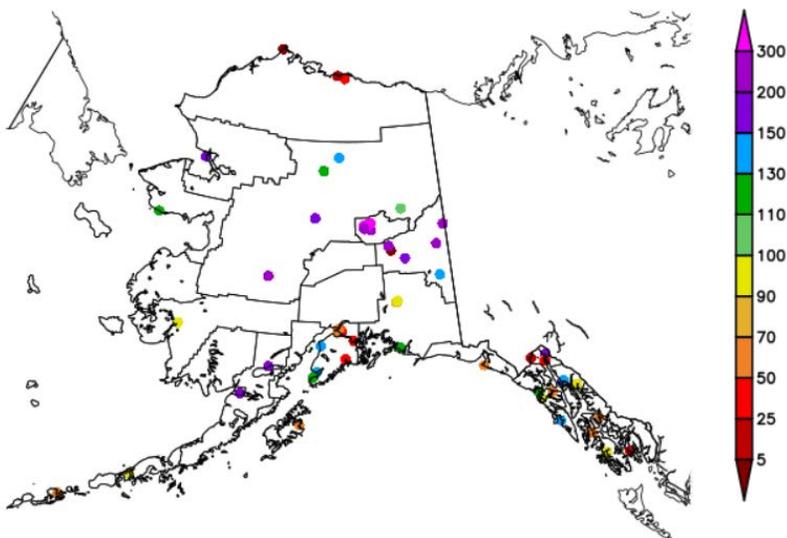
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
8/23/2018 – 8/29/2018



Generated 8/30/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

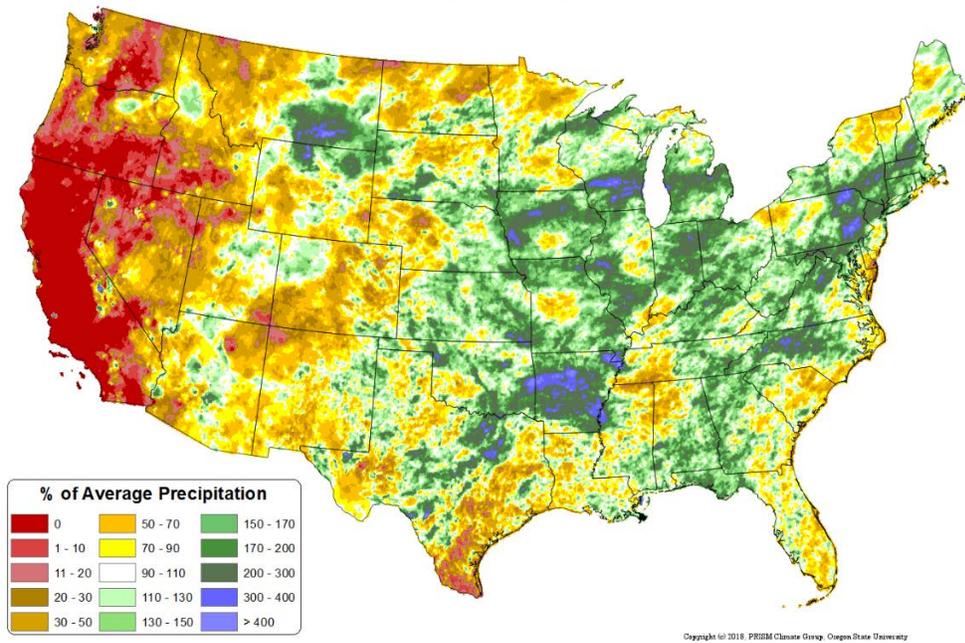
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 August 2018 - 29 August 2018
Period ending 7 AM EST 29 Aug 2018
Base period: 1981-2010
(Map created 30 Aug 2018)

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

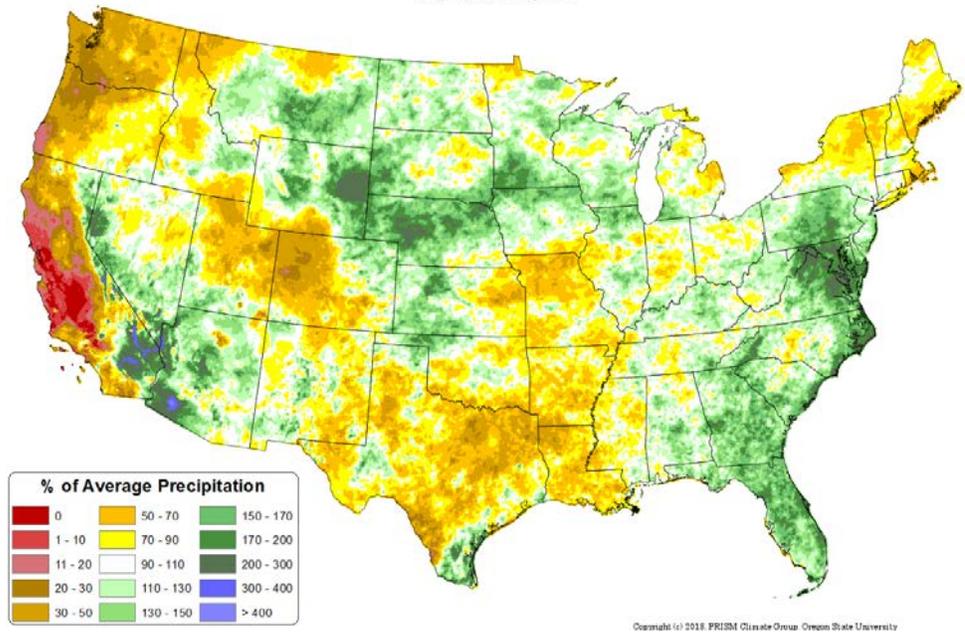


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

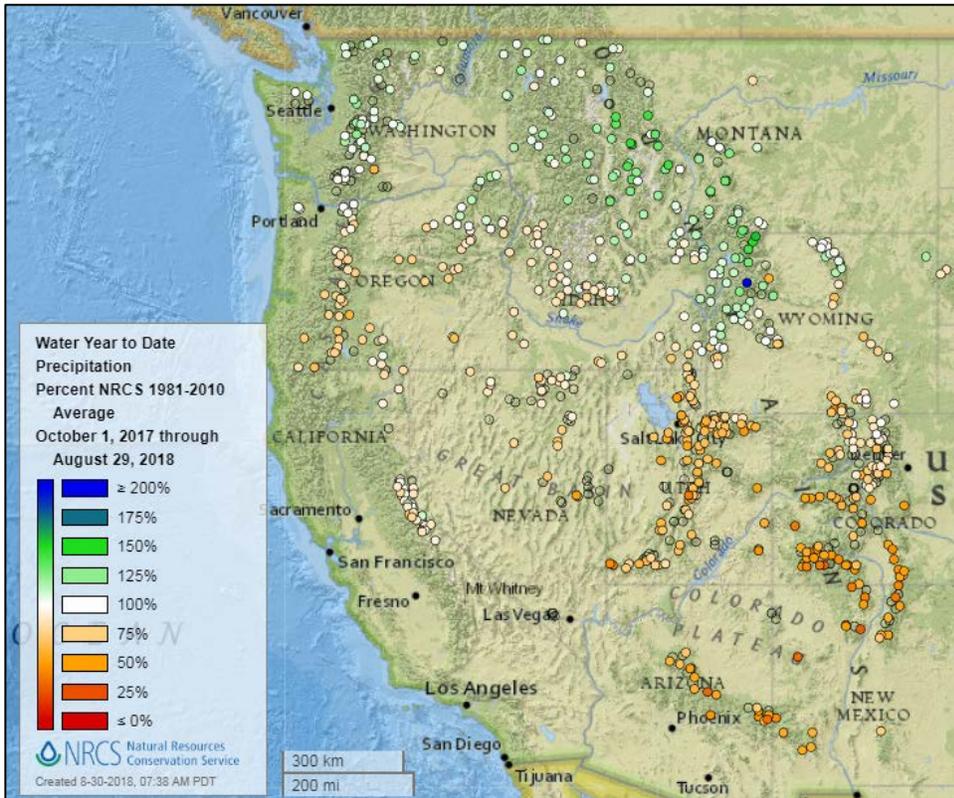
Source: PRISM

[May through July 2018 total precipitation percent of average map](#)

Total Precipitation Anomaly: May 2018 - July 2018
Period ending 7 AM EST 31 Jul 2018
Base period: 1981-2010
(Map created 02 Aug 2018)



Water Year-to-Date, NRCS SNOTEL Network



[2018 water year-to-date precipitation percent of average map](#)

See also: [2018 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2018 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2018 water year-to-date precipitation values \(inches\) map](#)

Temperature

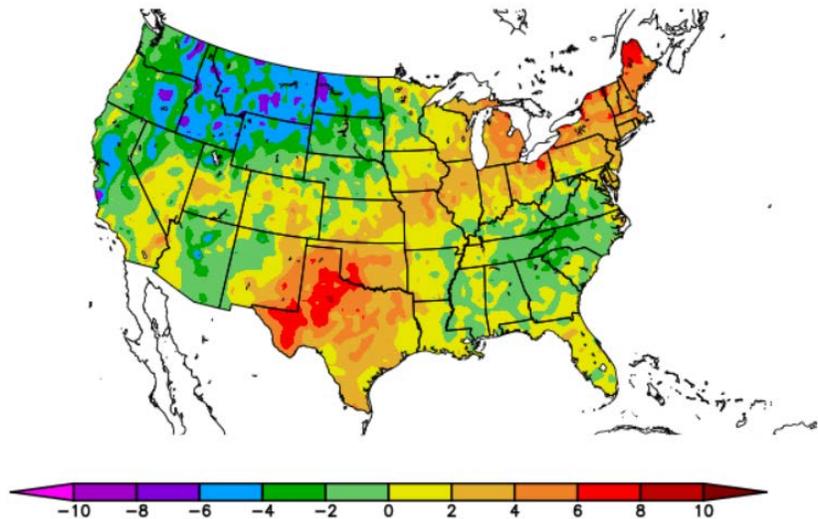
Last 7 Days, National Weather Service (NWS) Networks

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)
8/23/2018 – 8/29/2018



Generated 8/30/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

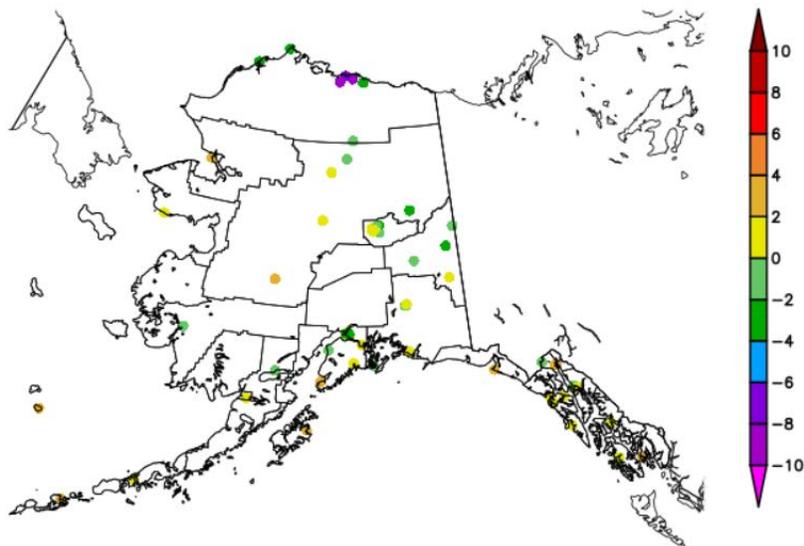
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
8/23/2018 – 8/29/2018



Generated 8/30/2018 at HPRCC using provisional data.

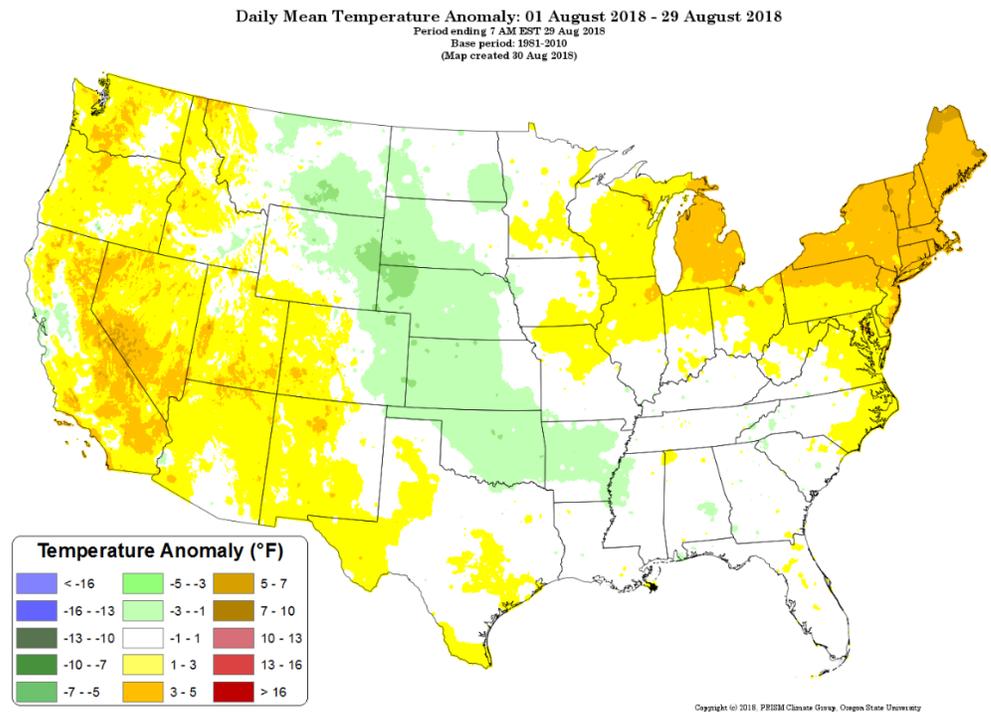
NOAA Regional Climate Centers

Water and Climate Update

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

Source: PRISM

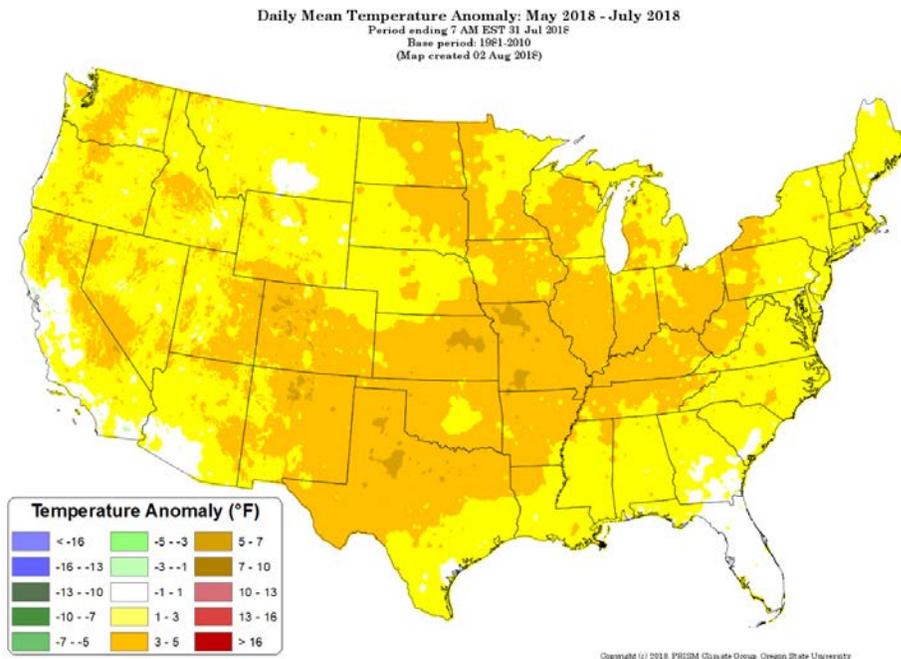
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[May through July 2018 daily mean temperature anomaly map](#)

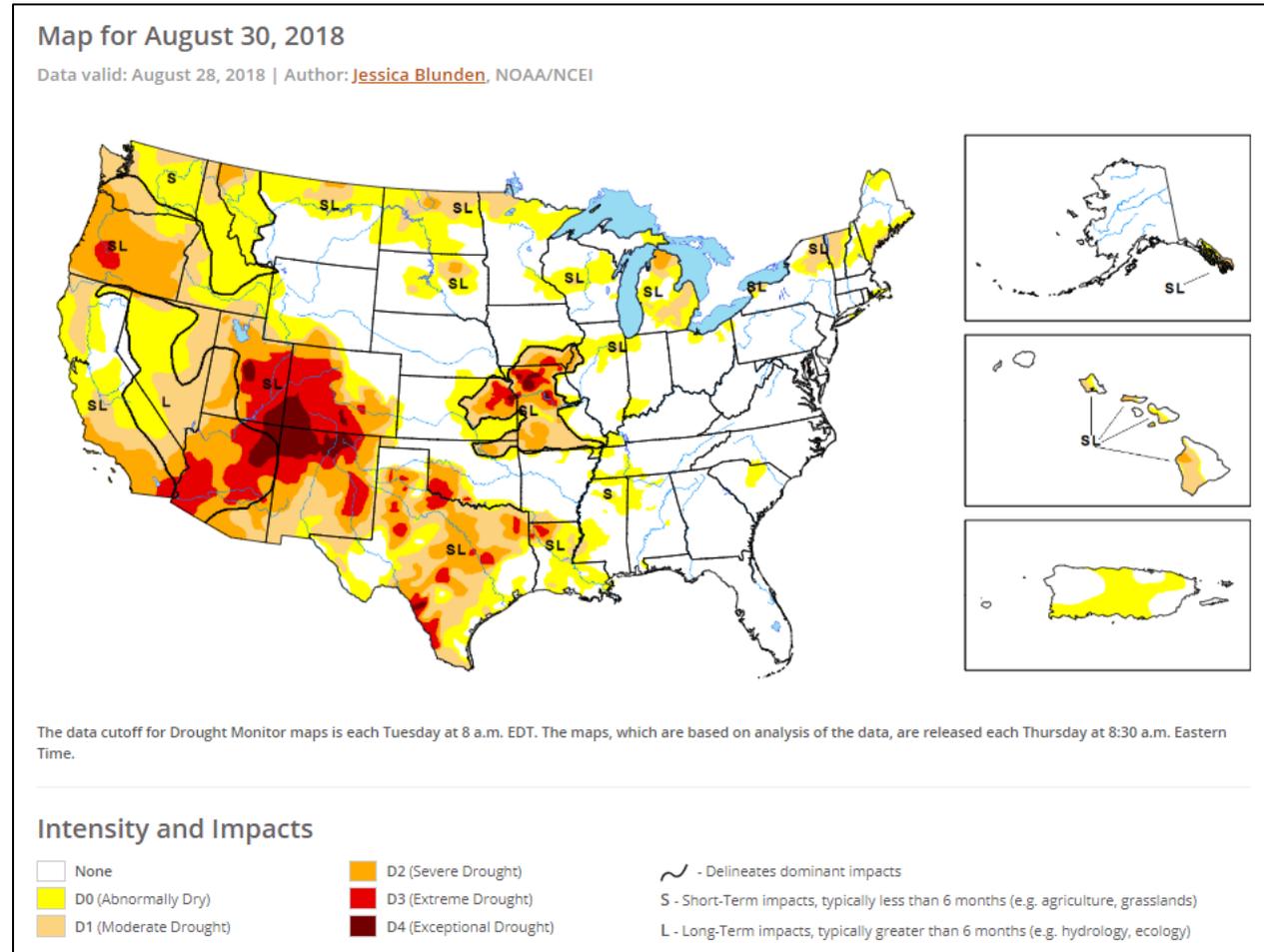


Drought

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

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

Update: The U.S. Drought Monitor website has recently implemented a secure connection. If you have bookmarked any pages, or have linked to the site, please change the url to include https:// instead of http://. If you have any questions feel free to [contact us](#).



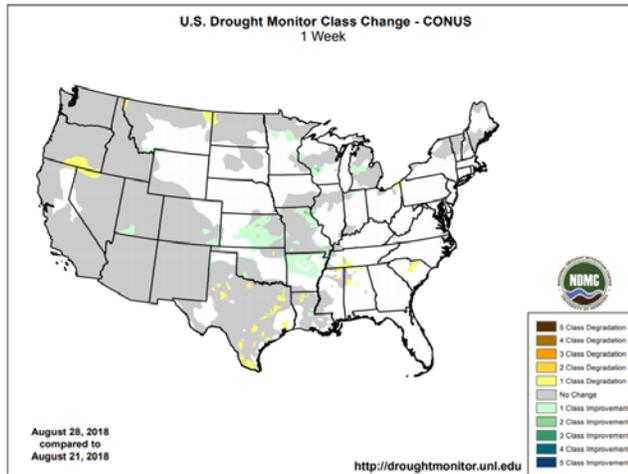
Current [National Drought Summary](#), August 30, 2018

Author: Jessica Blunden, NOAA/NCEI

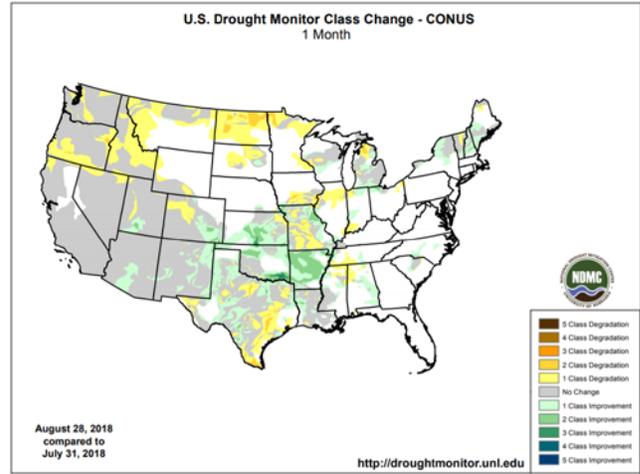
“Frontal systems brought thunderstorms and some heavy rainfall to parts of the Plains, the Midwest, and the South. While rainfall was enough to reduce or alleviate drought conditions in some places, such as Arkansas, northern Missouri, Kansas, Wisconsin, and Michigan, it wasn’t enough in other areas, such as southwestern Missouri and Idaho, as deficits and impacts remain. This past week saw temperatures slightly below average across much of the nation, with areas of eastern Montana and western North Dakota 4-8 degrees F cooler than normal, which helped to slow, but not halt, drought development. Conversely, parts of the Southwest, Texas, and areas along the eastern northern tier of the U.S. were well above their average temperatures. In Texas, notably, the widespread heat exacerbated evolving and ongoing drought.”

Changes in Drought Monitor Categories over Time

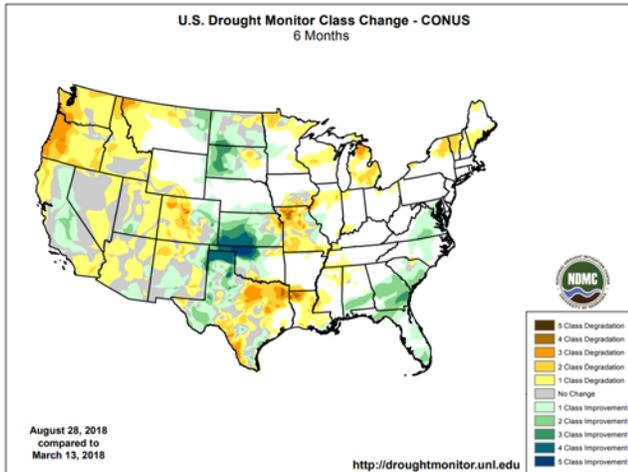
1 Week



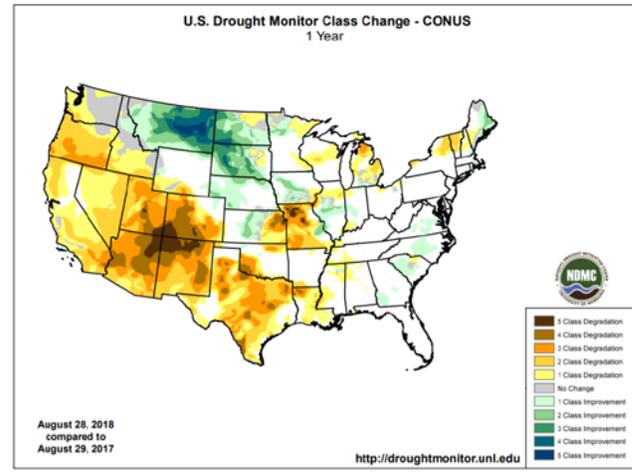
1 Month



6 Months



1 Year

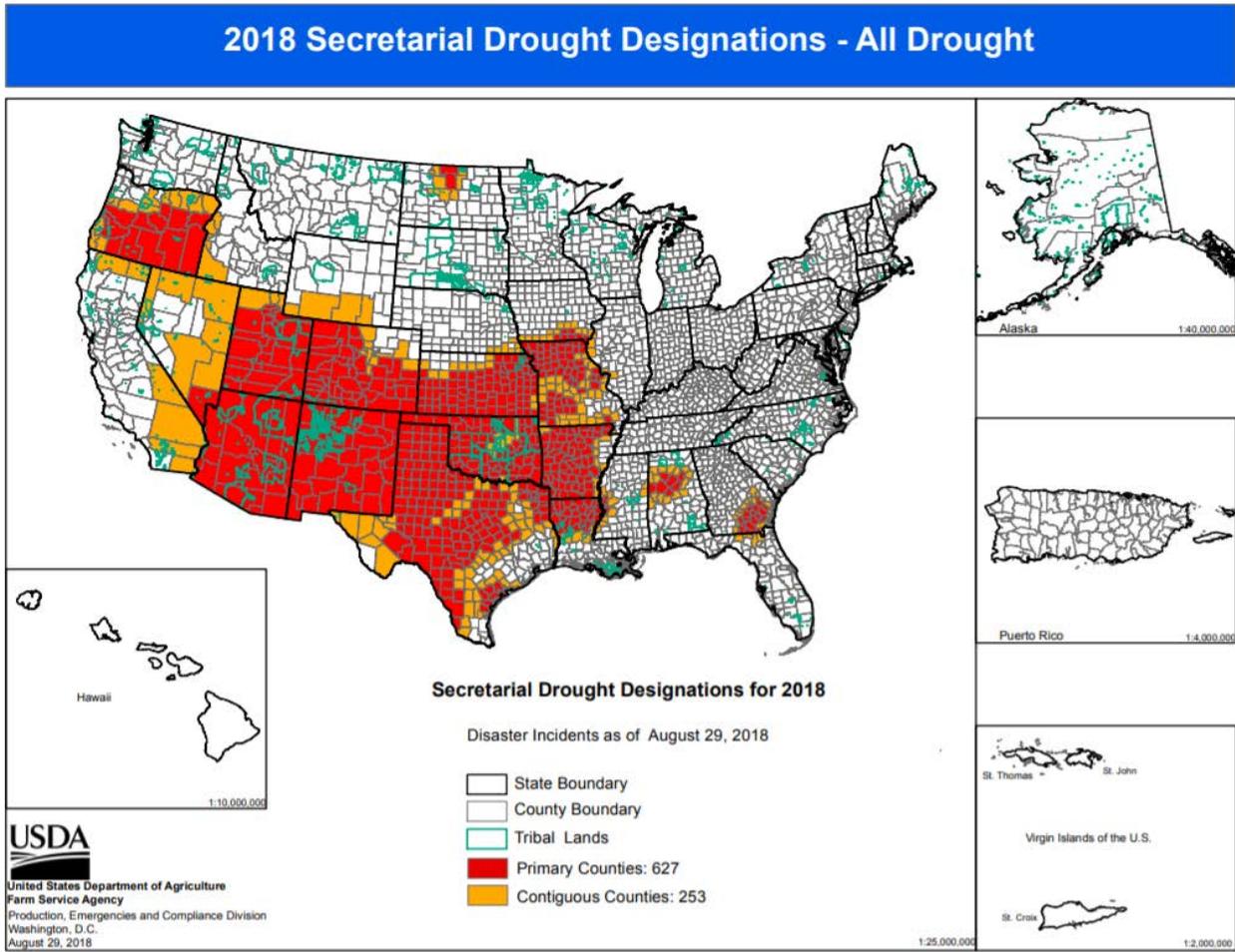


Changes in drought conditions over the last 12 months

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](#)

USDA 2018 Secretarial [Drought Designations](#)



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



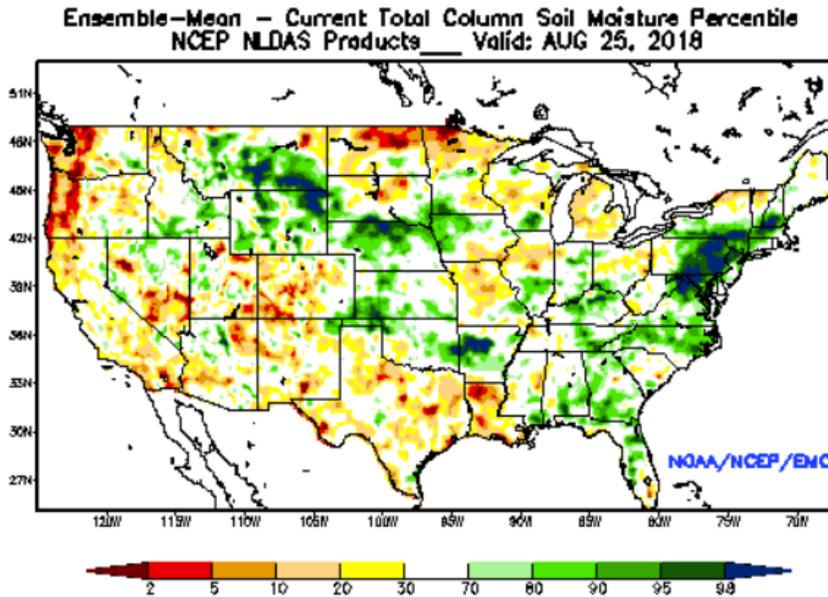
Highlighted Wildfire Resources

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

Other Climatic and Water Supply Indicators

Soil Moisture

Source: NOAA National Centers for Environmental Prediction



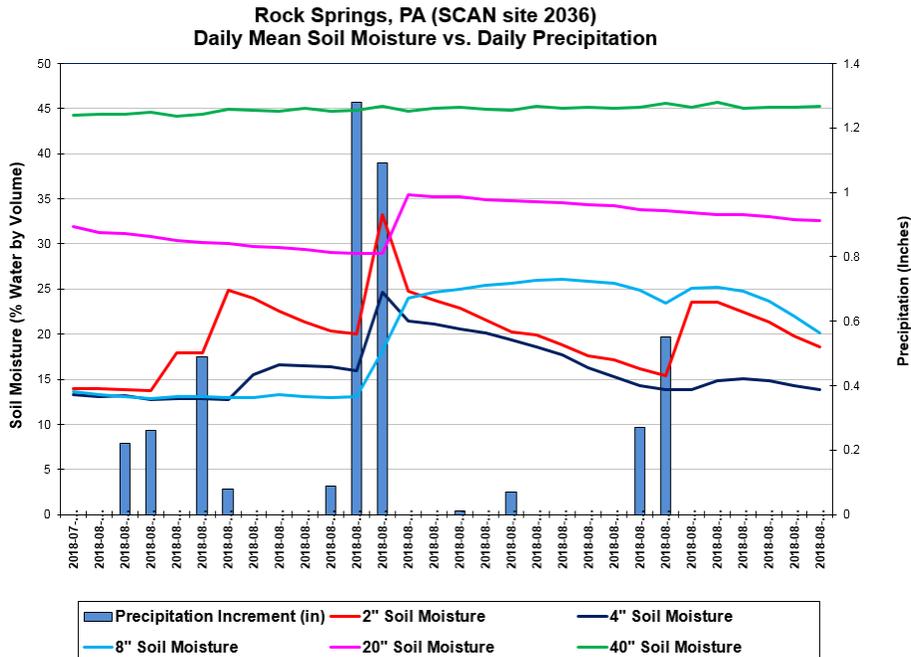
[Modeled soil moisture percentiles](#) as of August 25, 2018

Soil Moisture Data Portals

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

Soil Moisture Data

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

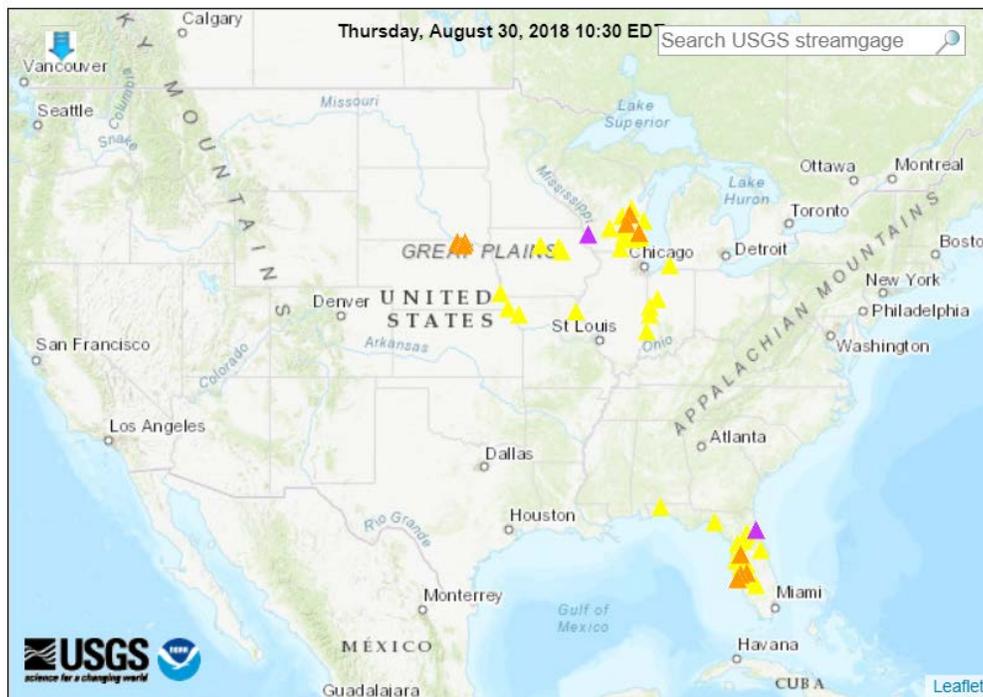


This chart shows the precipitation and soil moisture for the last 30 days at the [Rock Springs SCAN site](#) in Pennsylvania. The largest event at mid-month resulted in increased soil moisture at the 2-, 4-, 8-, and 20-inch sensor levels.

Streamflow

Source: USGS

Map of flood and high flow conditions



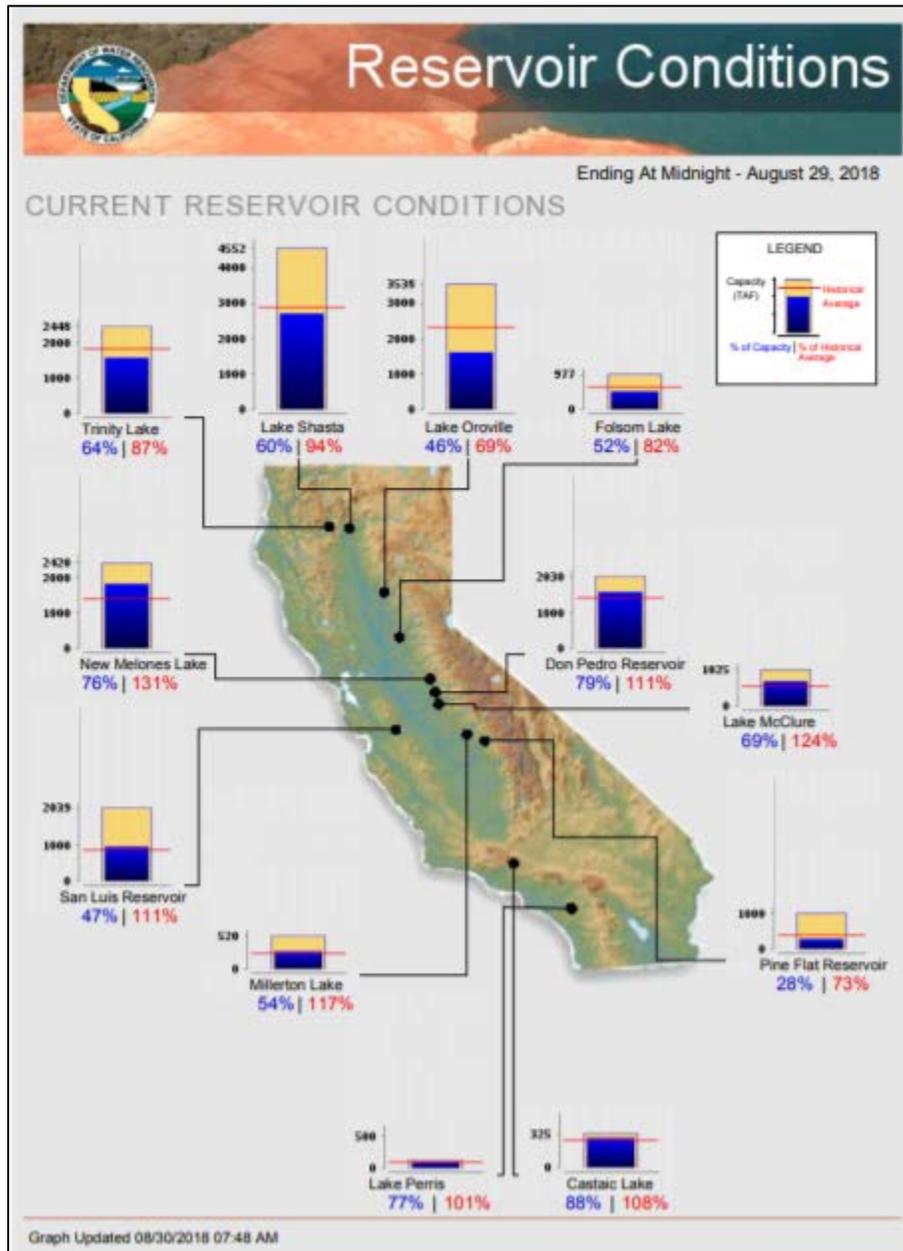
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
			▲ Streamgage with flood stage ○ Streamgage without flood stage			

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

Reservoir Storage

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

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](#)

Short- and Long-Range Outlooks

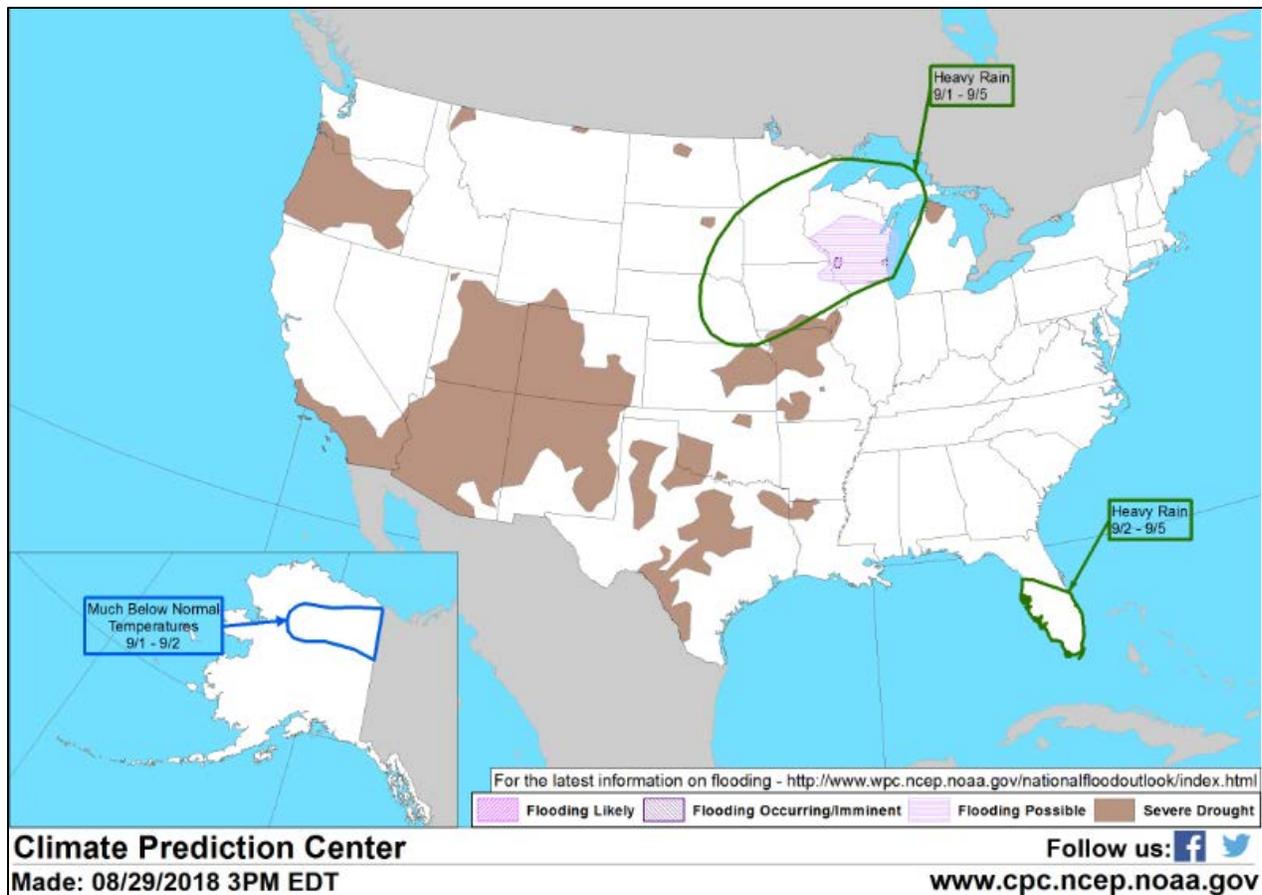
Agricultural Weather Highlights

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

[National Outlook, Thursday, August 30](#): "Late-season heat across the nation's mid-section will expand to cover much of the country by week's end. Some of the hottest weather, relative to normal, will occur on Friday and Saturday across the southern Plains, where widespread temperatures of 100°F or greater can be expected. Meanwhile, the focus for significant rainfall will be a pair of cold fronts. By week's end, the first front will stall across the Southeast, while the second front will reach the western Corn Belt. Five-day rainfall totals could reach 1 to 3 inches or more in the upper Midwest. Similar totals should occur along and near the Gulf Coast. In contrast, hot, dry weather will dominate California, the Great Basin, and the Northwest. Elsewhere, monsoon-related showers will return across the Southwest during the weekend. The NWS 6- to 10-day outlook for September 3 – 7 calls for the likelihood of near- to above-normal temperatures and precipitation nationwide, except for cooler-than-normal conditions in Montana and drier-than-normal weather in the Pacific Northwest."

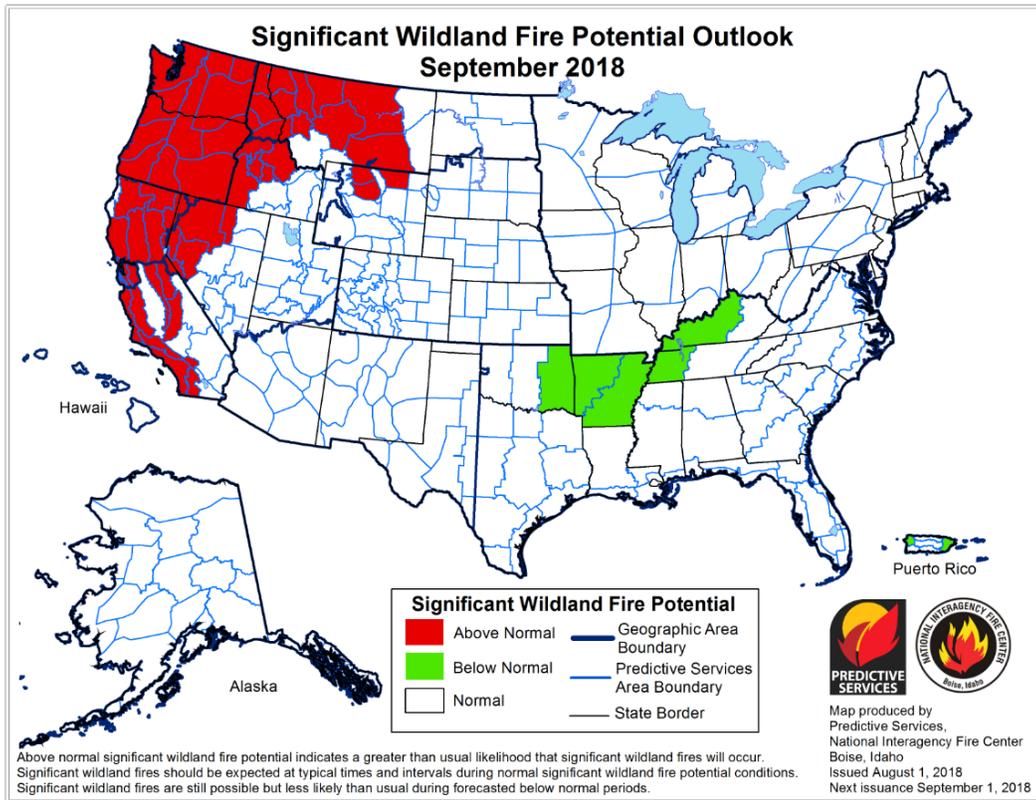
Weather Hazard Outlook [September 1 – 5, 2018](#)

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

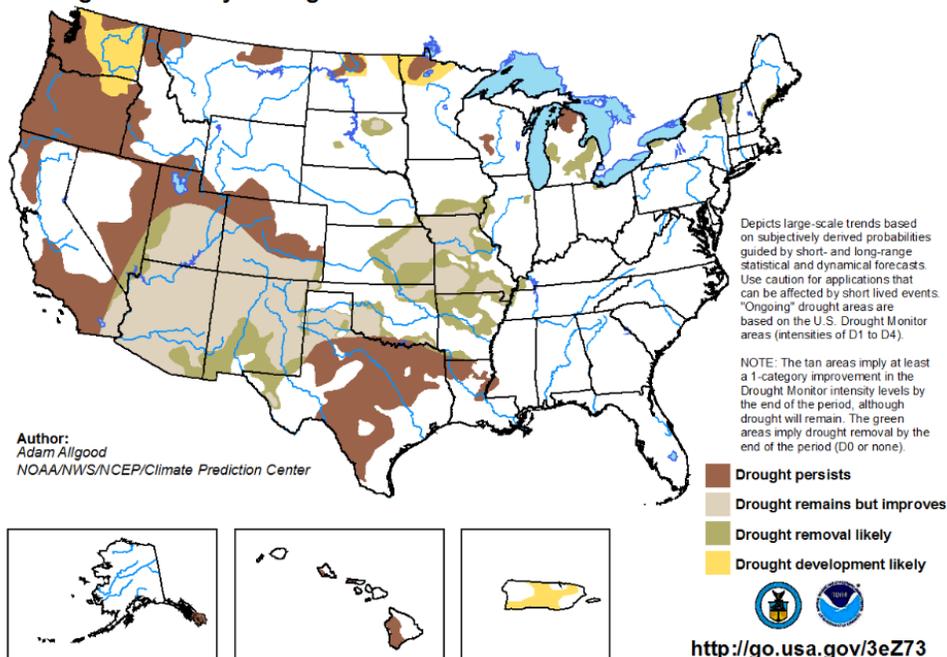
Source: National Interagency Fire Center



Seasonal Drought Outlook: [August 16 - November 30, 2018](#)

Source: National Weather Service

U.S. Seasonal Drought Outlook Valid for August 16 - November 30, 2018
 Drought Tendency During the Valid Period Released August 16, 2018

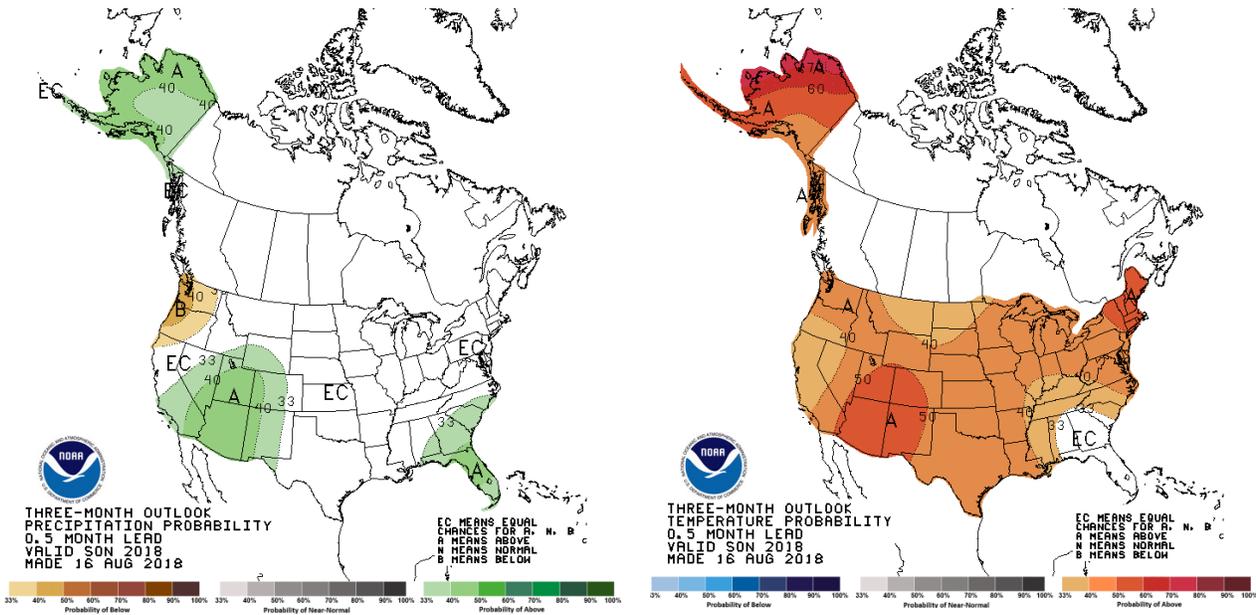


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[September-October-November \(SOM\) 2018 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](#).