

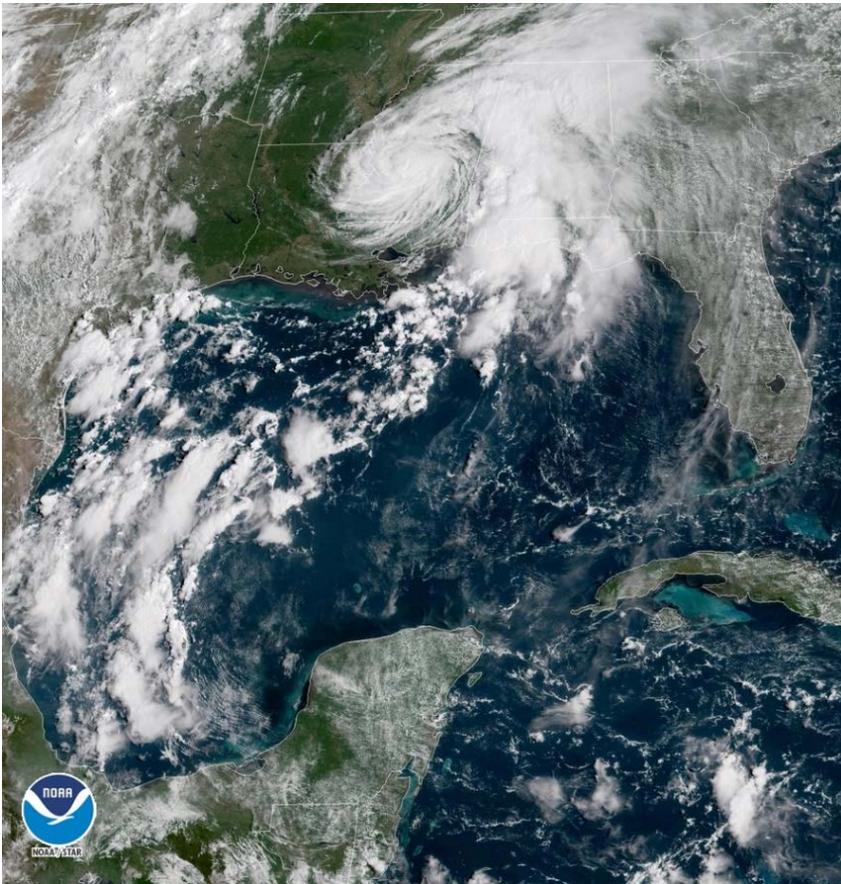
Water and Climate Update

September 6, 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
Temperature	6	Short- and Long-Range Outlooks.....	15
Drought	8	More Information	17

Tropical Storm Gordon brings heavy precipitation to Gulf Coast



The [NOAA GOES-East satellite image](#) from September 5 shows Tropical Storm Gordon moving across the Gulf Coast.

The storm is bringing strong winds, storm surge, and heavy precipitation to the area.

As the storm tracks to the north, the threat of heavy rain and flooding for parts of the South and Lower- to Mid-Mississippi Valley will continue for the next several days.

Note: Page 12 shows precipitation and soil moisture for a SCAN site in the storm path.

Related:

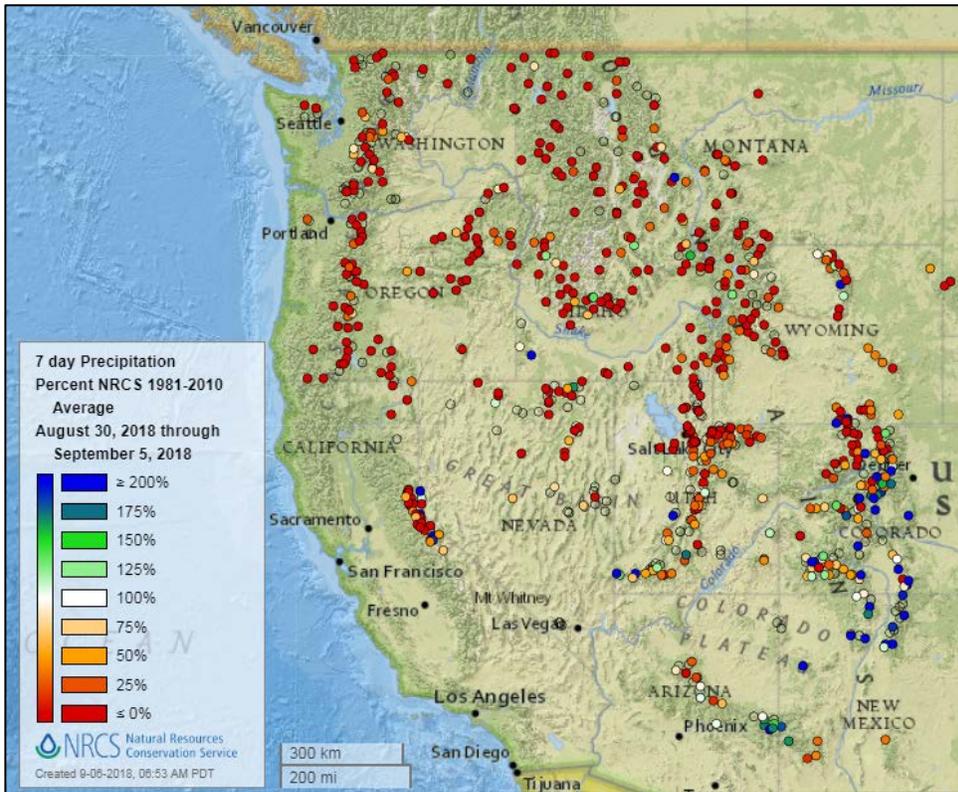
[Deadly Gordon brings drenching rains to Gulf Coast after making landfall near the Alabama-Mississippi border](#) -- CNN

[Gordon brings dangerous flash flooding, heavy rain to Gulf Coast as storm moves north](#) -- ABC News

[Thousands without power, roads shut down as Gordon batters Gulf Coast](#) -- AccuWeather

Precipitation

Last 7 Days, NRCS SNOTEL Network

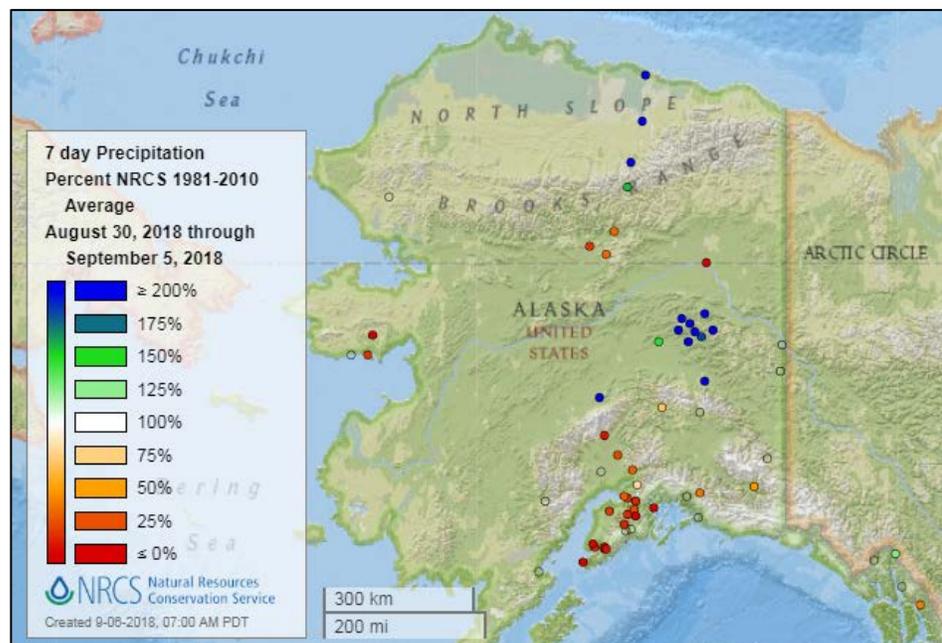


[7-day precipitation percent of average map](#)

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](#)



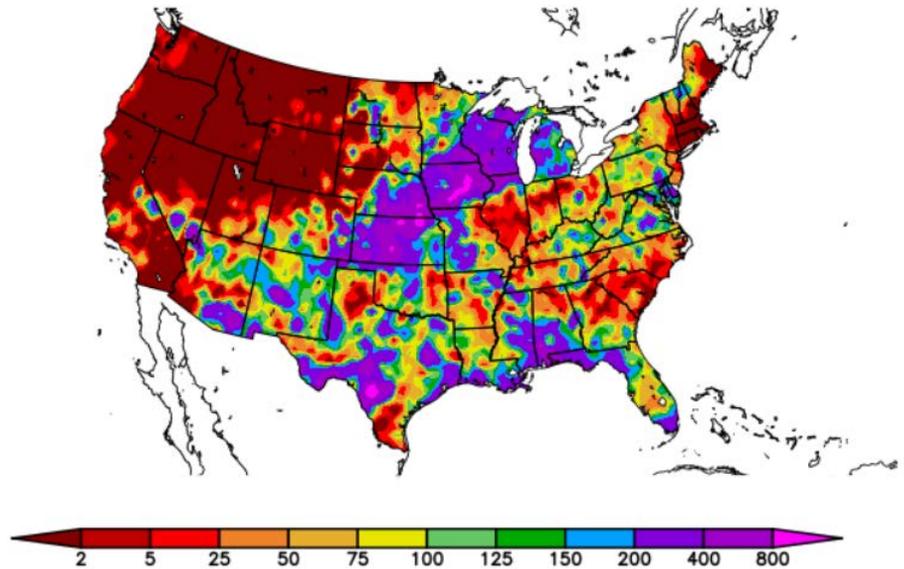
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

Percent of Normal Precipitation (%)
8/30/2018 – 9/5/2018

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



Generated 9/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

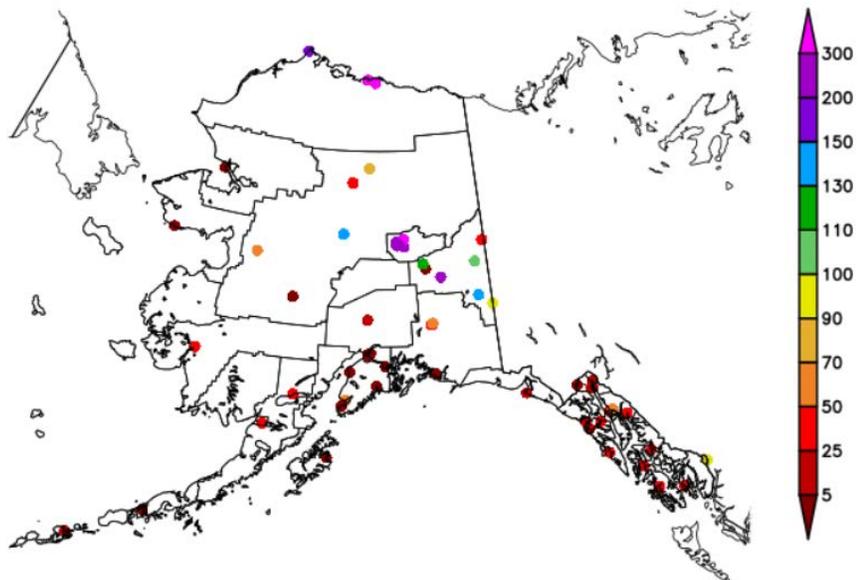
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

Percent of Normal Precipitation (%)
8/30/2018 – 9/5/2018

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



Generated 9/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

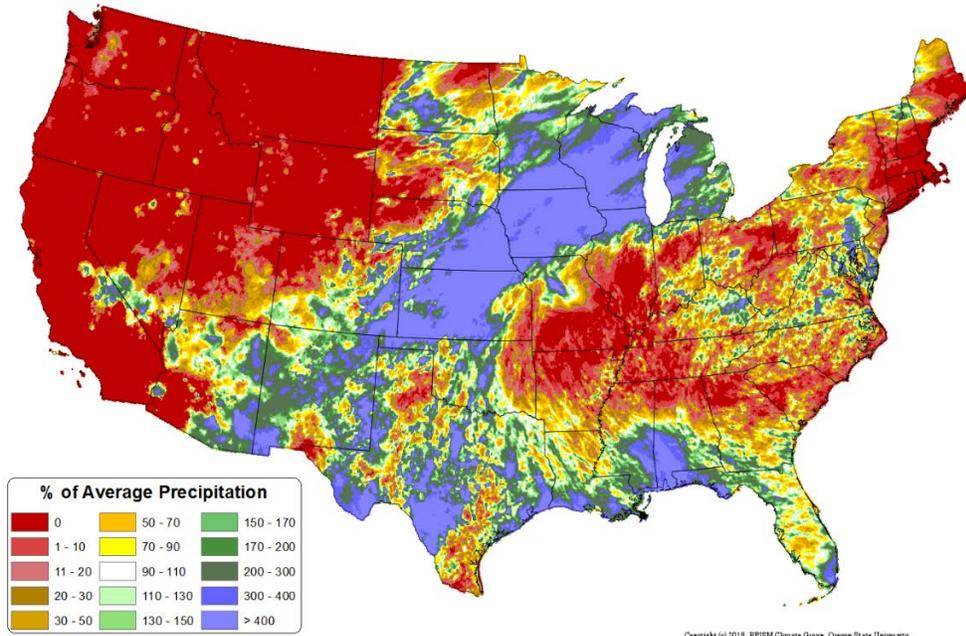
Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Sep 2018 - 05 Sep 2018
Period ending 7 AM EST 05 Sep 2018
Base period: 1981-2010
(Map created 06 Sep 2018)

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

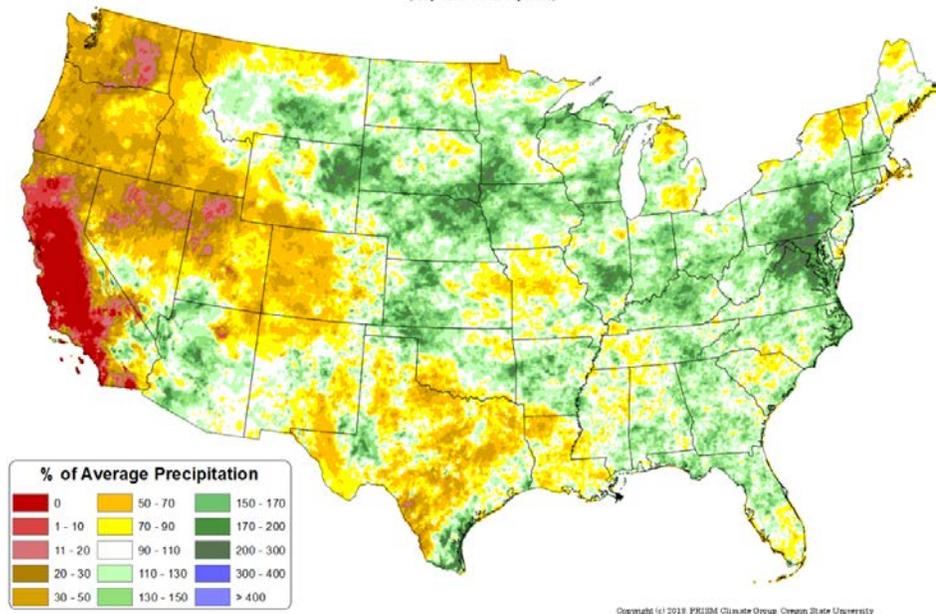


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

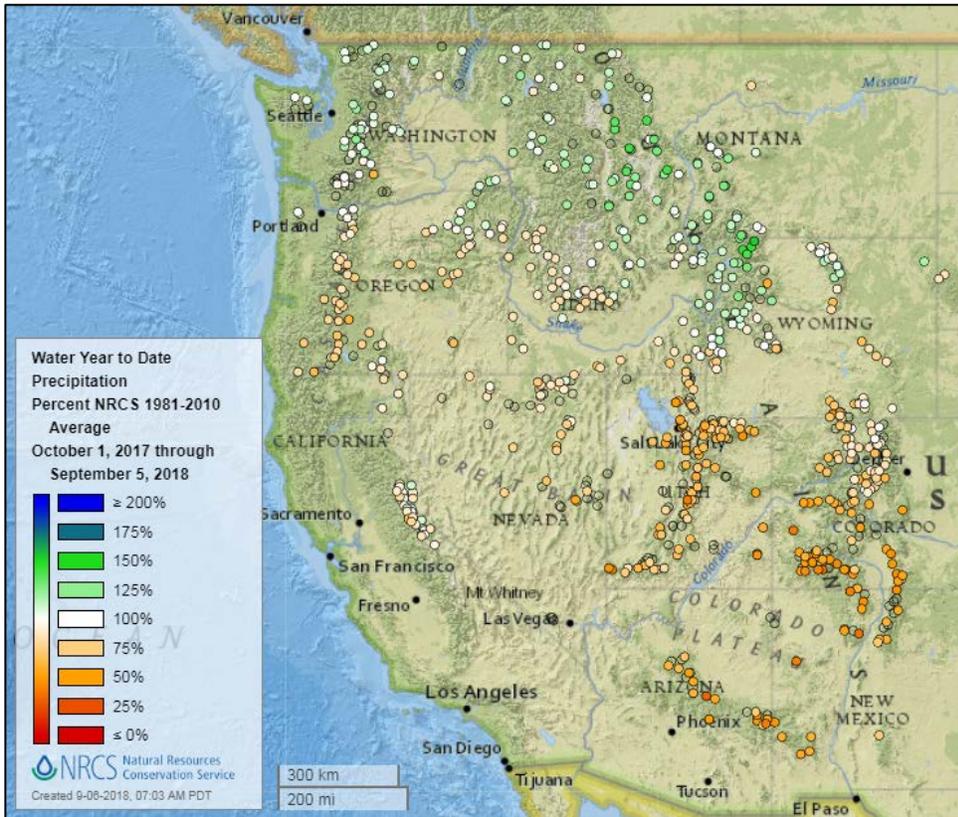
Source: PRISM

[June through August 2018 total precipitation percent of average map](#)

Total Precipitation Anomaly: June 2018 - August 2018
Period ending 7 AM EST 31 Aug 2018
Base period: 1981-2010
(Map created 02 Sep 2018)

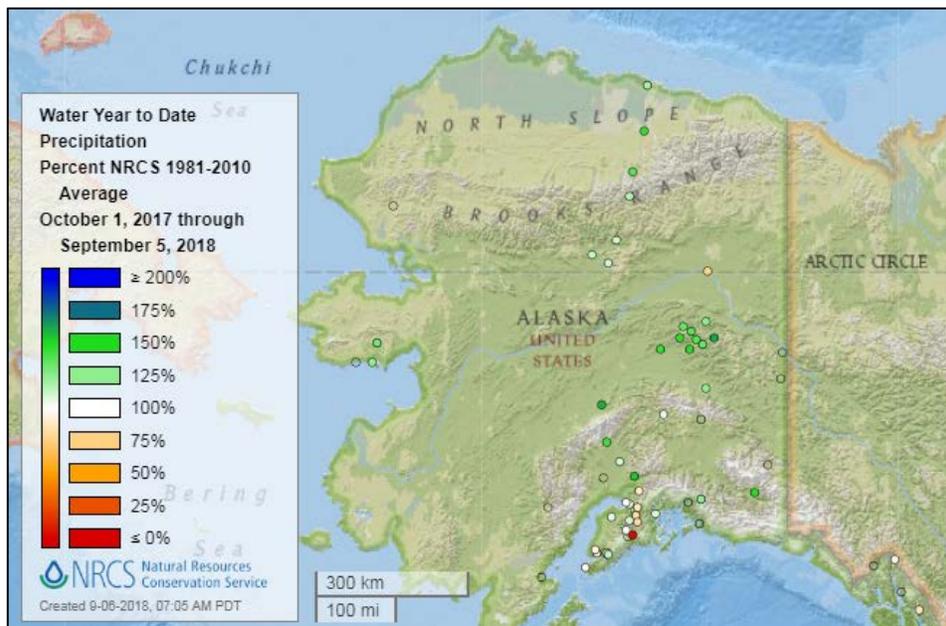


Water Year-to-Date, NRCS SNOTEL Network



[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

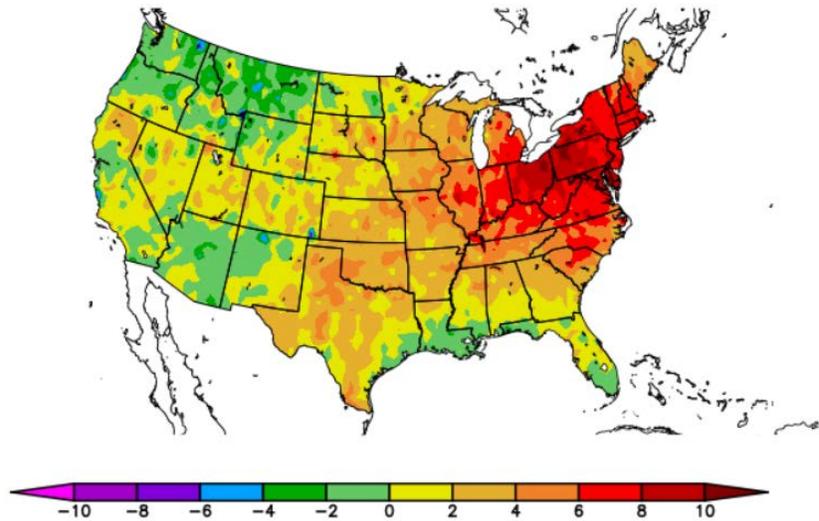
Last 7 Days, National Weather Service (NWS) Networks

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)
8/30/2018 – 9/5/2018



Generated 9/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

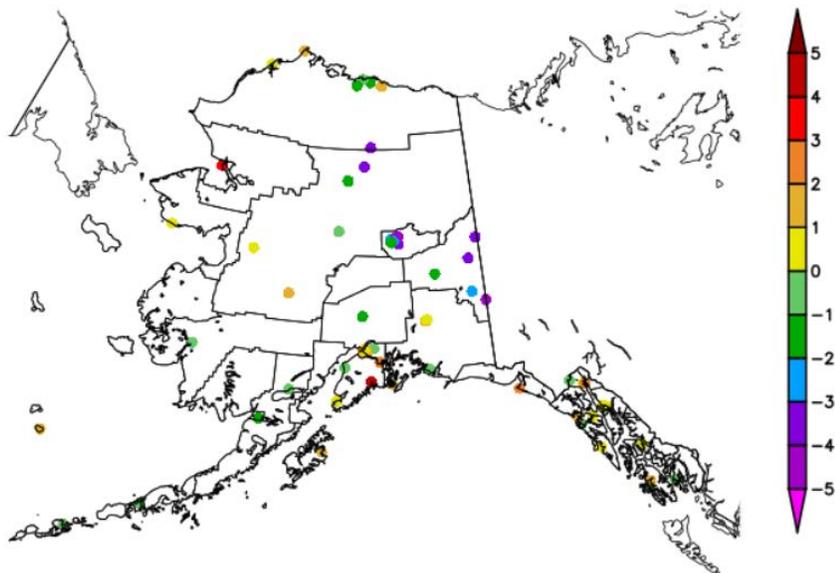
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
8/30/2018 – 9/5/2018



Generated 9/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

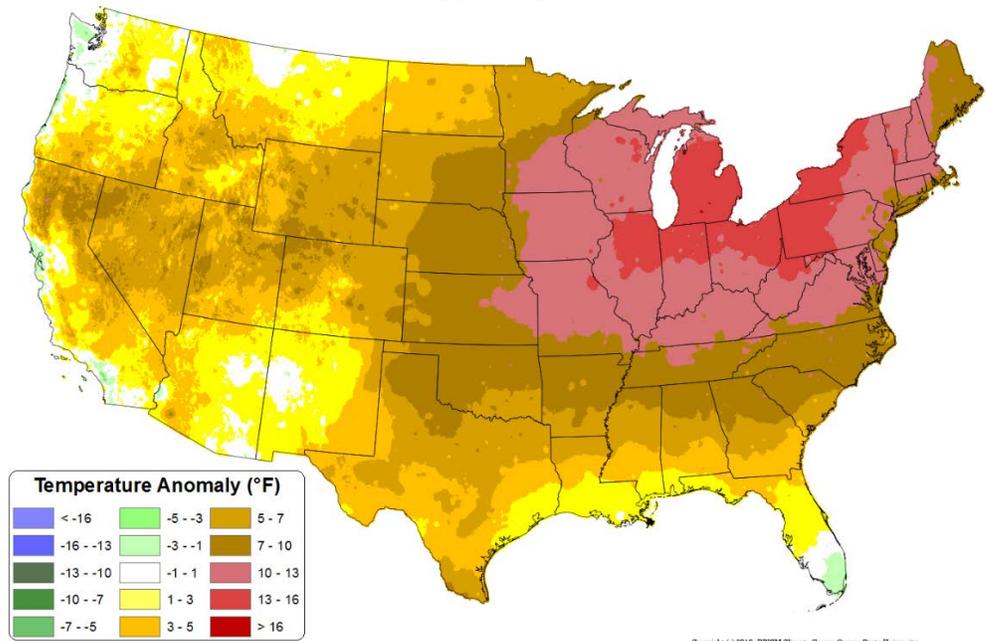
Water and Climate Update

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

Source: PRISM

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

Daily Mean Temperature Anomaly: 01 Sep 2018 - 05 Sep 2018
Period ending 7 AM EST 05 Sep 2018
Base period: 1981-2010
(Map created 06 Sep 2018)

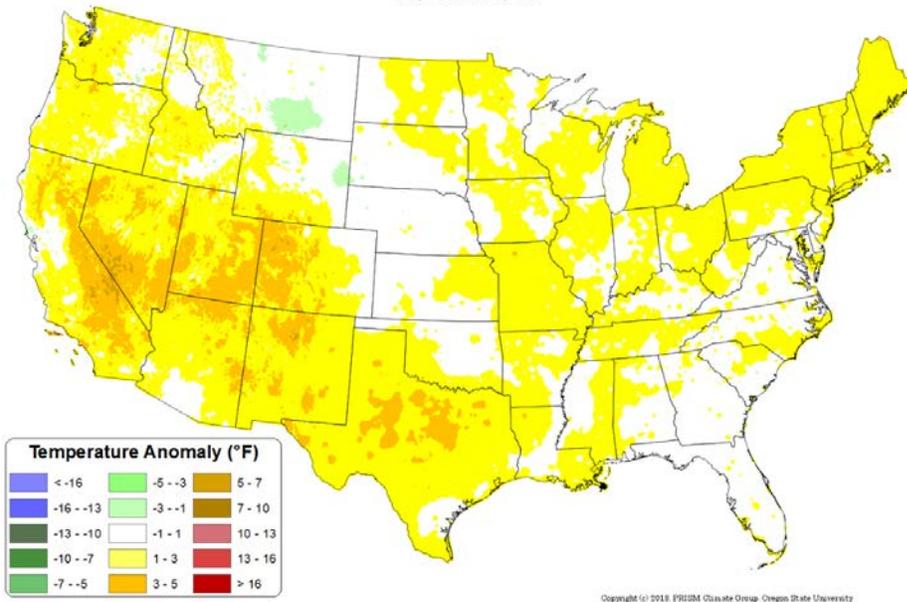


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[June through August 2018 daily mean temperature anomaly map](#)

Daily Mean Temperature Anomaly: June 2018 - August 2018
Period ending 7 AM EST 31 Aug 2018
Base period: 1981-2010
(Map created 02 Sep 2018)

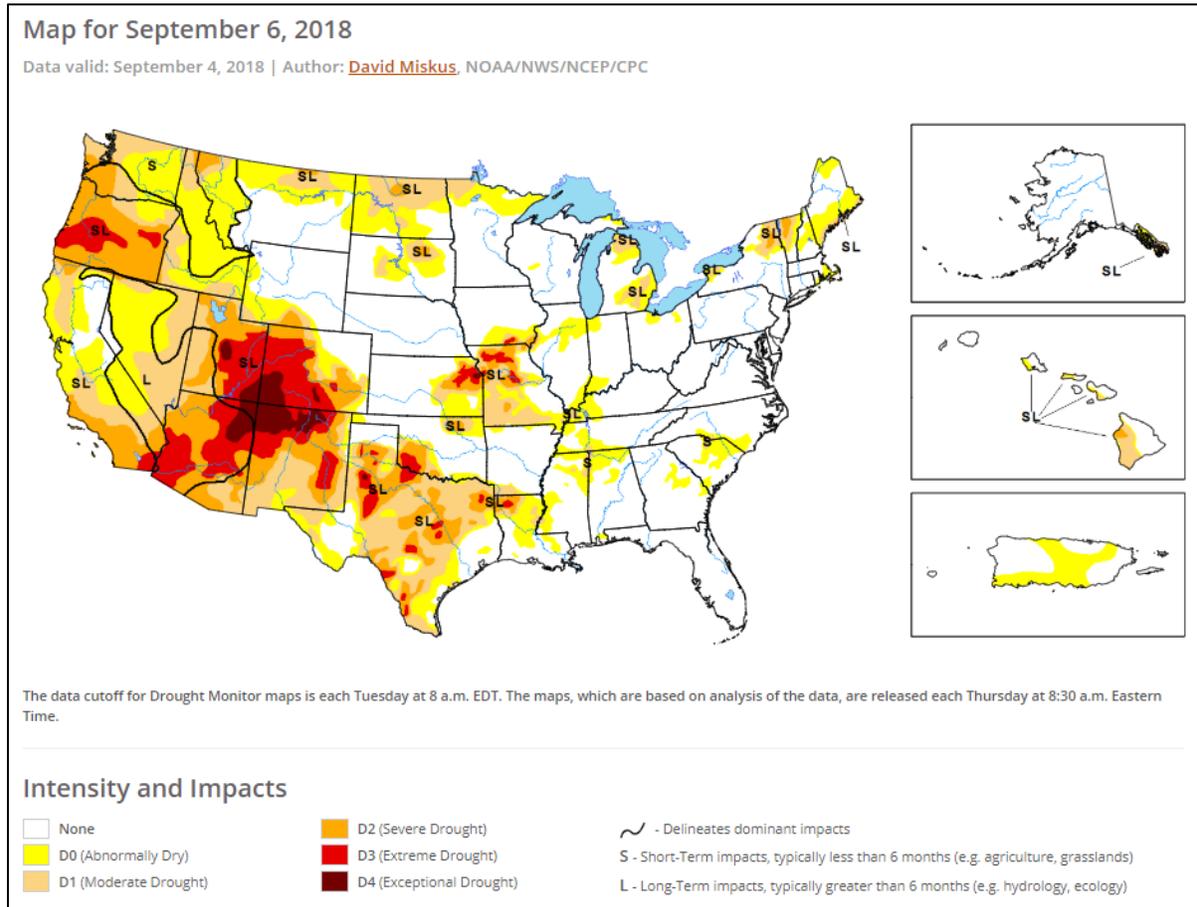


Drought

[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](#).



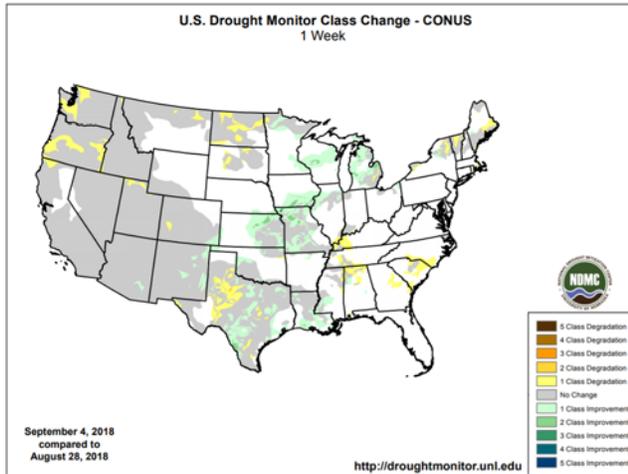
Current [National Drought Summary](#), September 6, 2018

Author: David Miskus, NOAA/NWS/NCEP/CPC

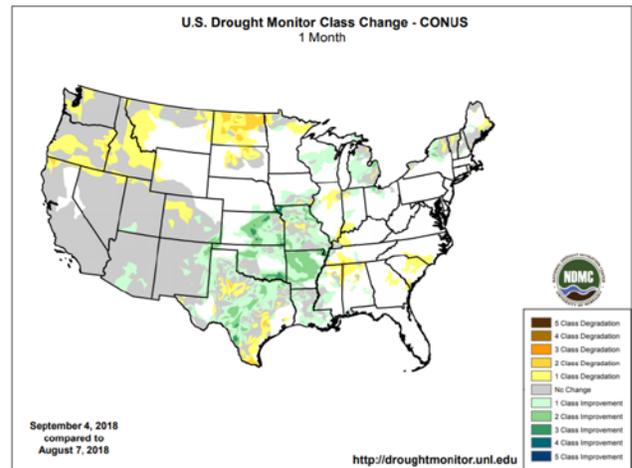
“While subnormal temperatures overspread the Northwest, a strong and persistent Bermuda high over the Atlantic Ocean kept the East unseasonably warm and humid while hindering cold fronts from advancing eastward into the region. As a result, stalled fronts over the Nation’s mid-section became a focal point for widespread heavy showers and thunderstorms, especially from the central Great Plains northeastward into the western Great Lakes region. Parts of Kansas, Nebraska, Missouri, Iowa, Illinois, Wisconsin, and Michigan saw over 5 inches of rain for the week, with locally 10-15 inches of rain in southern Wisconsin. Needless to say, major improvements were made in the Midwest. Tropical showers also occurred along the Gulf Coast, and later in the week Tropical Storm Gordon formed in the eastern Gulf and tracked northwestward toward Mississippi. Scattered showers also fell on parts of the Four Corner Region, the northern Plains, upper Midwest, mid-Atlantic, and western New England. Little or no rain was observed in the West, northern and central Rockies, north-central High Plains, across sections of the interior Southeast, eastern Corn Belt, and coastal New England.”

Changes in Drought Monitor Categories over Time

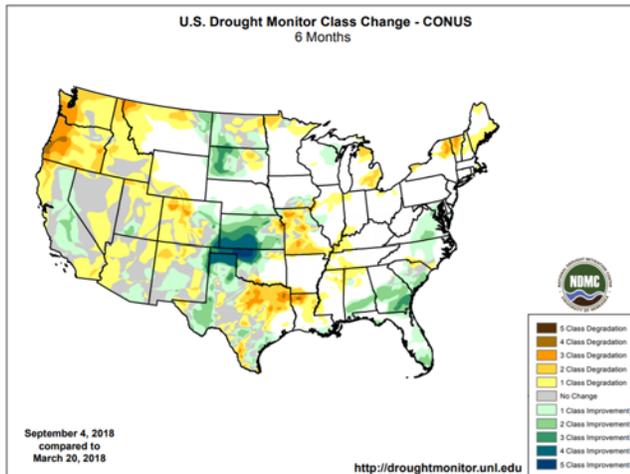
1 Week



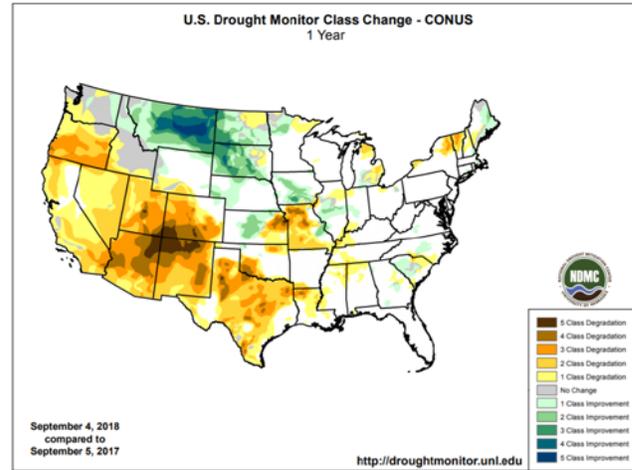
1 Month



6 Months



1 Year



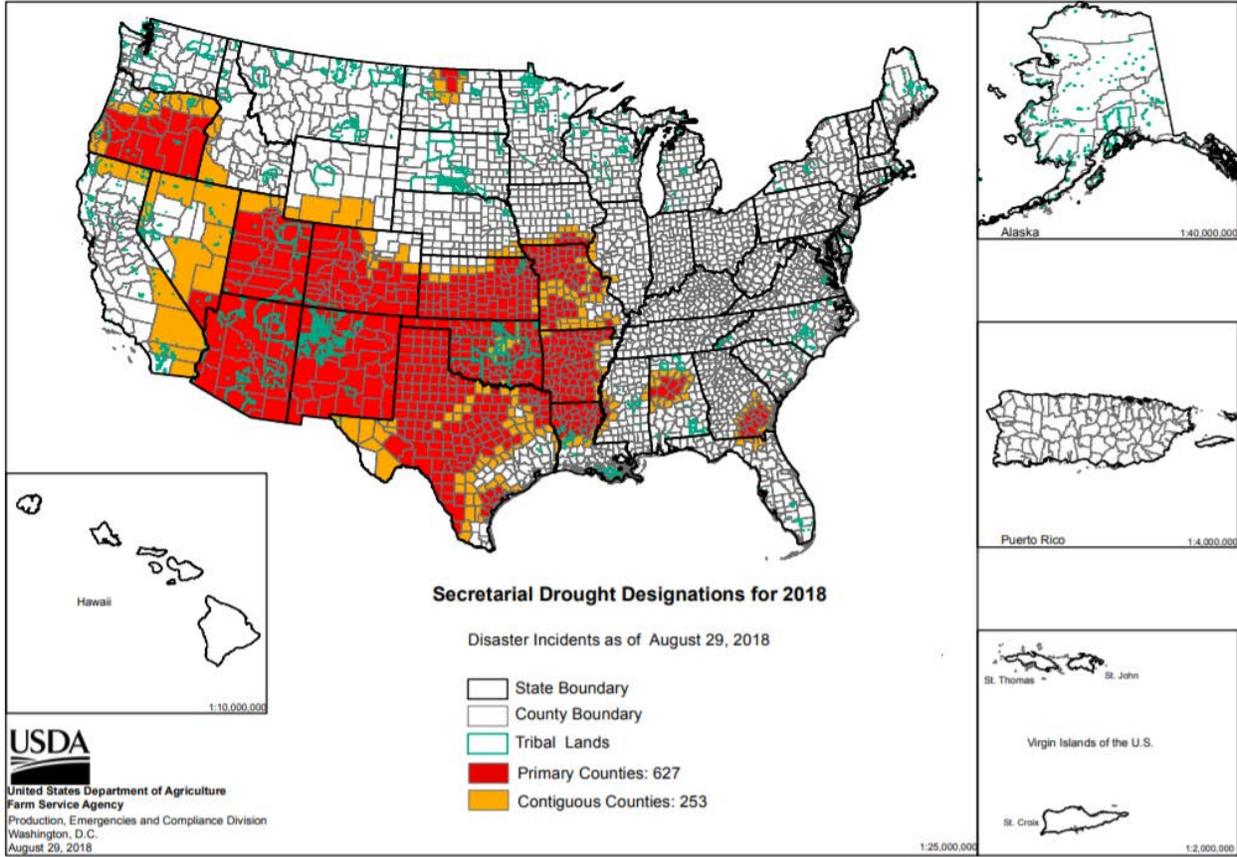
Changes in drought conditions over the last 12 months

Highlighted Drought Resources

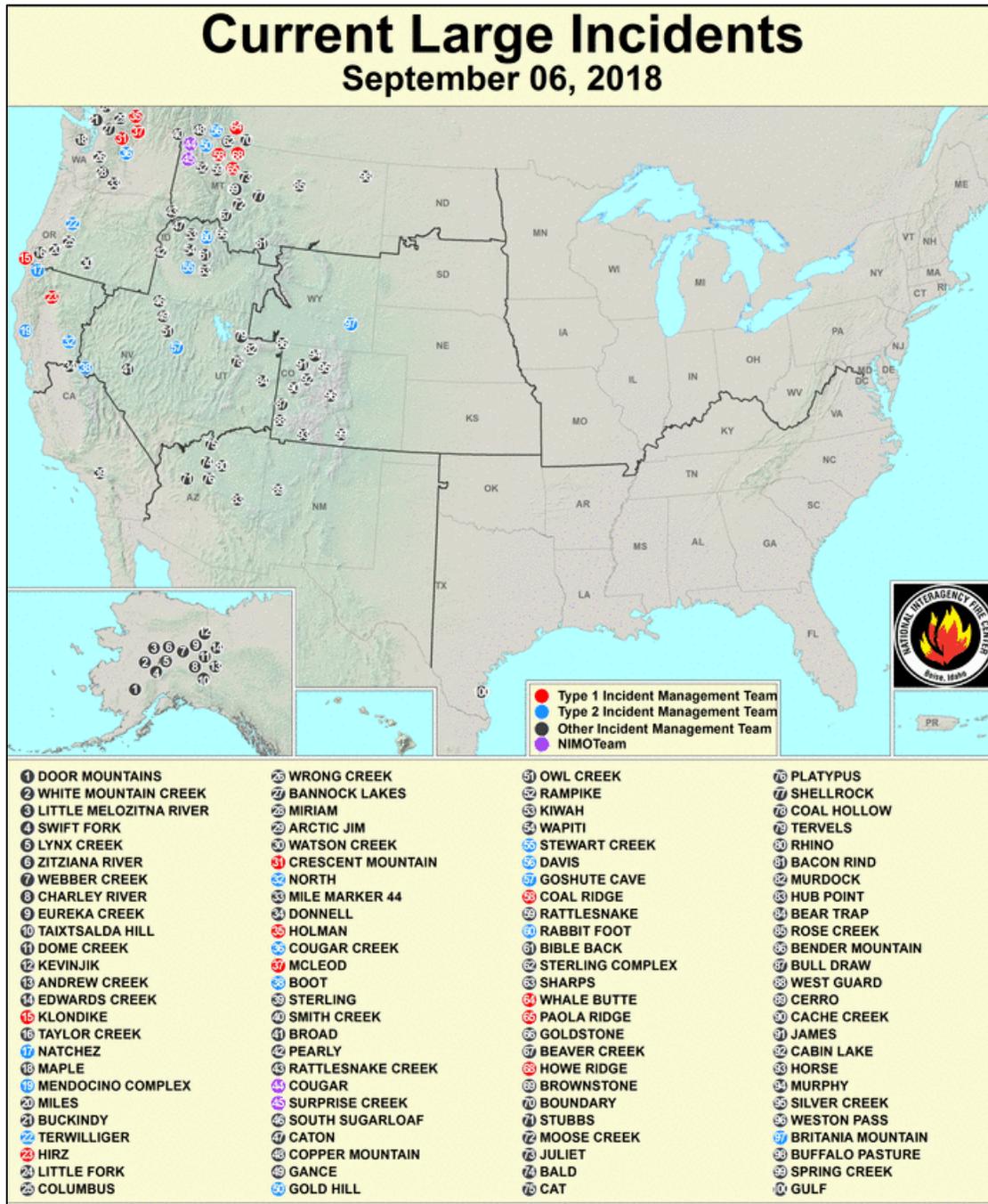
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

USDA 2018 Secretarial [Drought Designations](#)

2018 Secretarial Drought Designations - All Drought



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



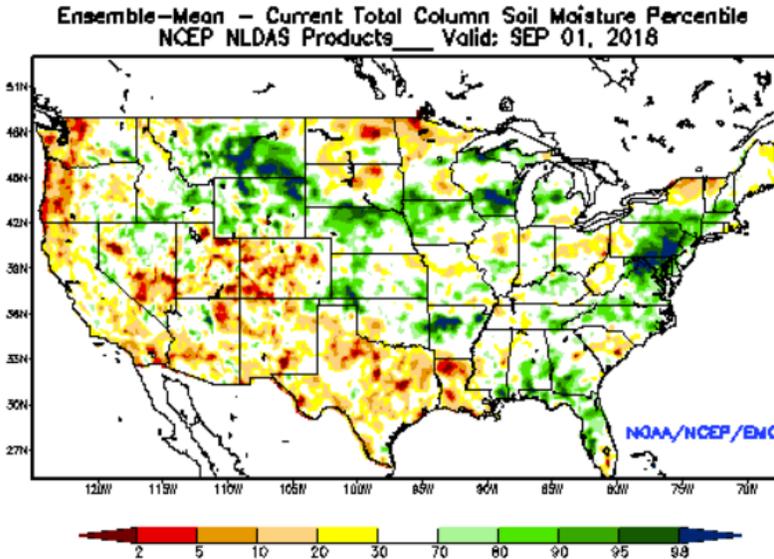
Highlighted Wildfire Resources

- [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



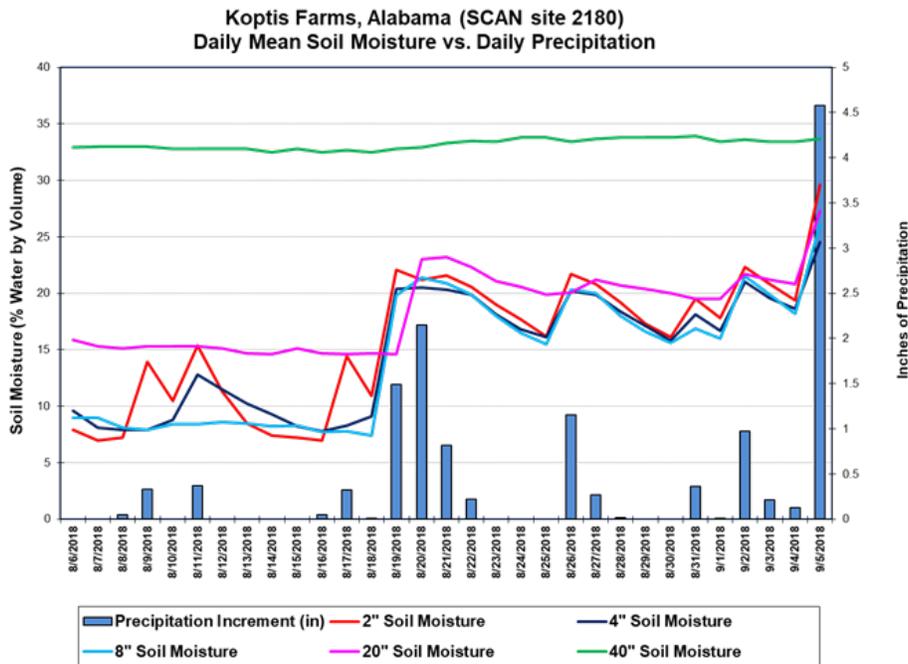
Soil Moisture Data Portals

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

[Modeled soil moisture percentiles](#) as of September 1, 2018

Soil Moisture Data

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

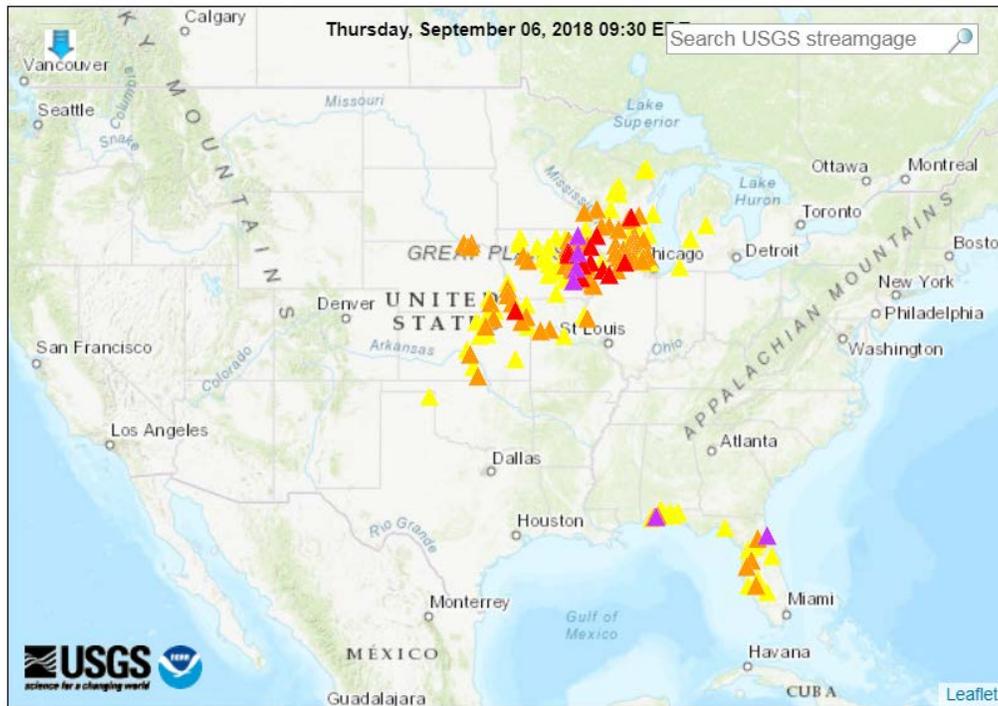


This chart shows the precipitation and soil moisture for the last 30 days at the [Koptis Farms SCAN site](#), located along the Gulf Coast in Alabama. The site has experienced several precipitation events during this period, increasing soil moisture at the 2", 4", 8", and 20" sensors. The impact of Tropical Storm Gordon is seen on September 5, where incremental precipitation was 4.58 inches.

Streamflow

Source: USGS

Map of flood and high flow conditions



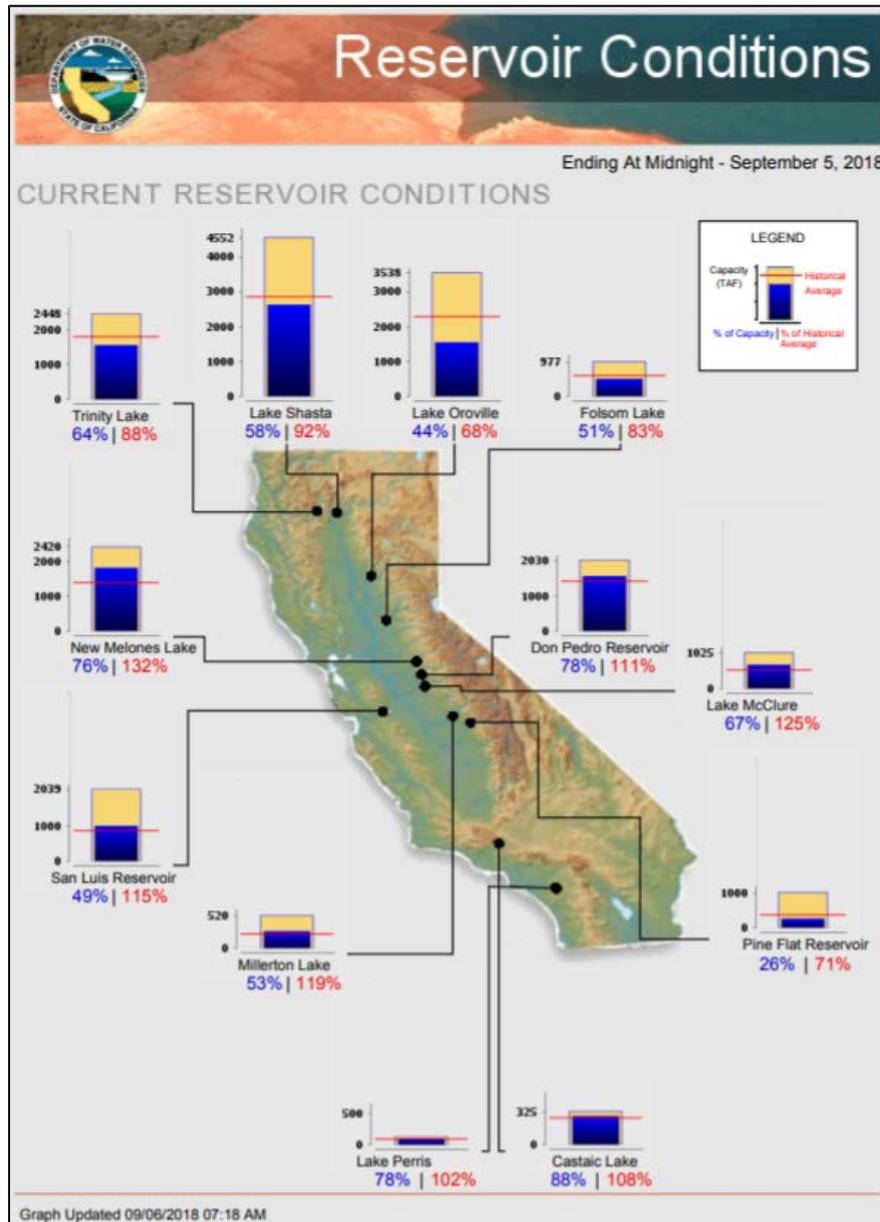
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
Streamgage with flood stage			Streamgage without flood stage			

[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

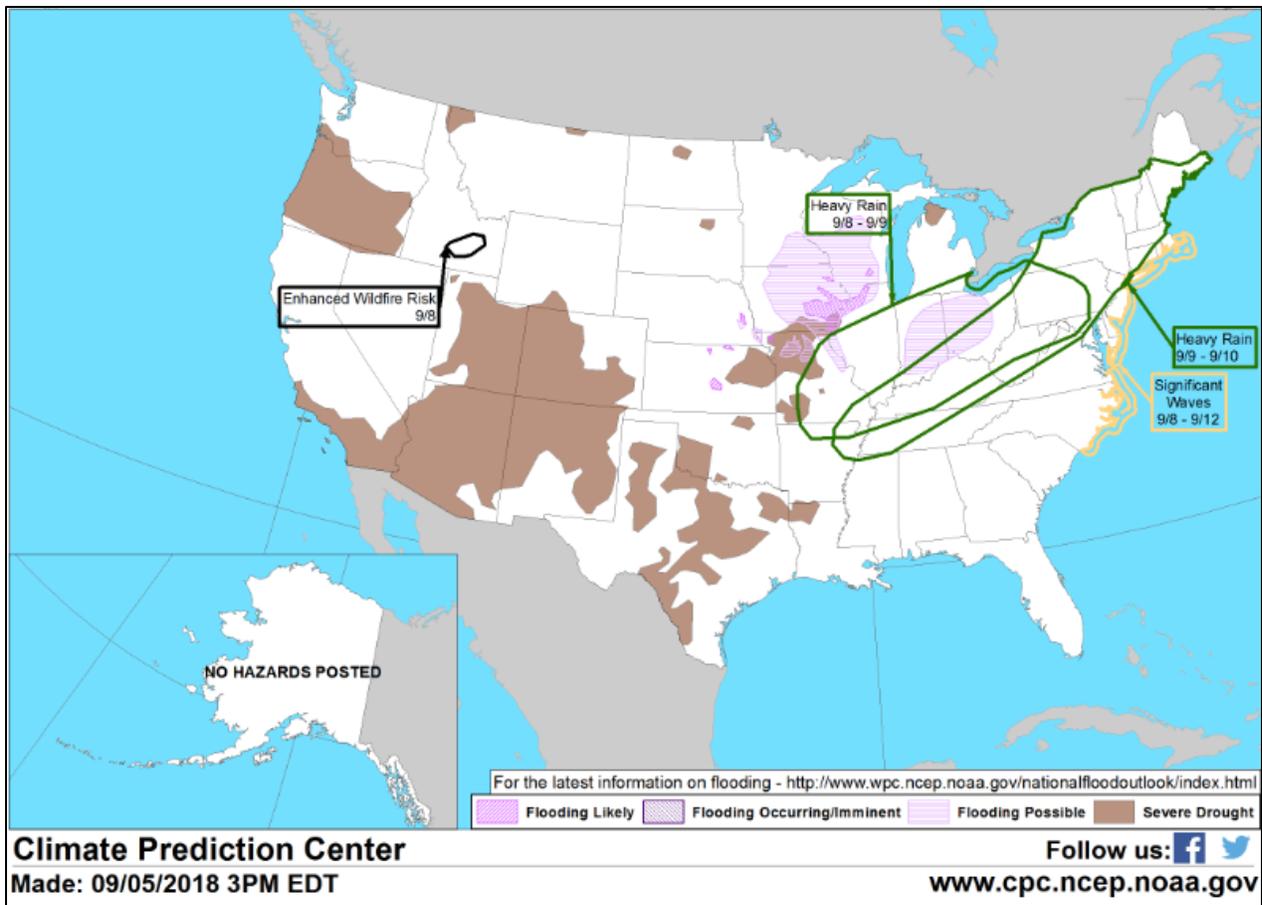
Agricultural Weather Highlights

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

National Outlook, Thursday, September 6: “The remnants of Gordon will become embedded in a cold front, helping to enhance rainfall across the mid-South and lower Midwest. Five-day rainfall totals could reach 2 to 8 inches or more, particularly in the Ohio and middle Mississippi Valleys. Locally heavy showers will also linger across the south-central U.S., where additional rainfall could total 1 to 4 inches. In contrast, mostly dry weather will prevail from the Pacific Coast to the northern Rockies, northern Plains and far upper Midwest. However, a few late-week showers may graze the Pacific Northwest. Late-season heat will accompany the Western dryness, although cooler air will arrive early next week in the Pacific Northwest. The NWS 6- to 10-day outlook for September 11 – 15 calls for the likelihood of above-normal temperatures nearly nationwide. Cooler-than-normal conditions will be confined to northern California the Pacific Northwest. Meanwhile, near- to below-normal rainfall across central and southern portions of the Rockies and Plains, as well as the Midwest, should contrast with wetter-than-normal weather in the Gulf and Atlantic Coast States and across the nation’s northern tier from the Pacific Northwest to Minnesota”

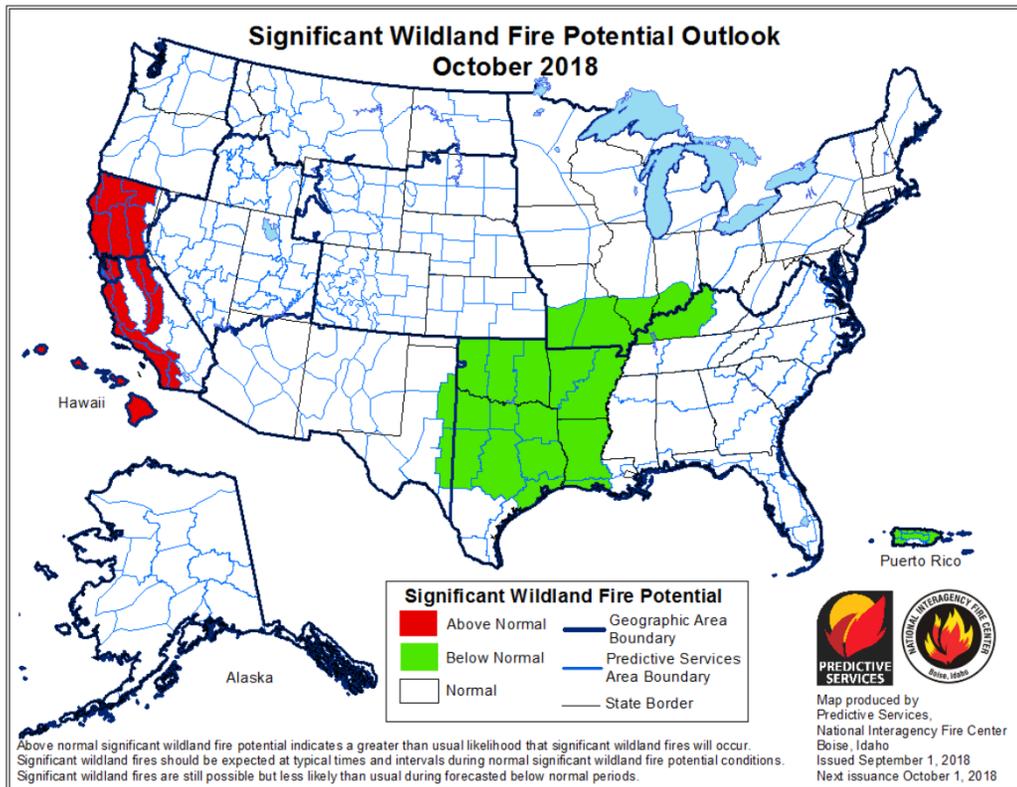
Weather Hazard Outlook September 8 – 12, 2018

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

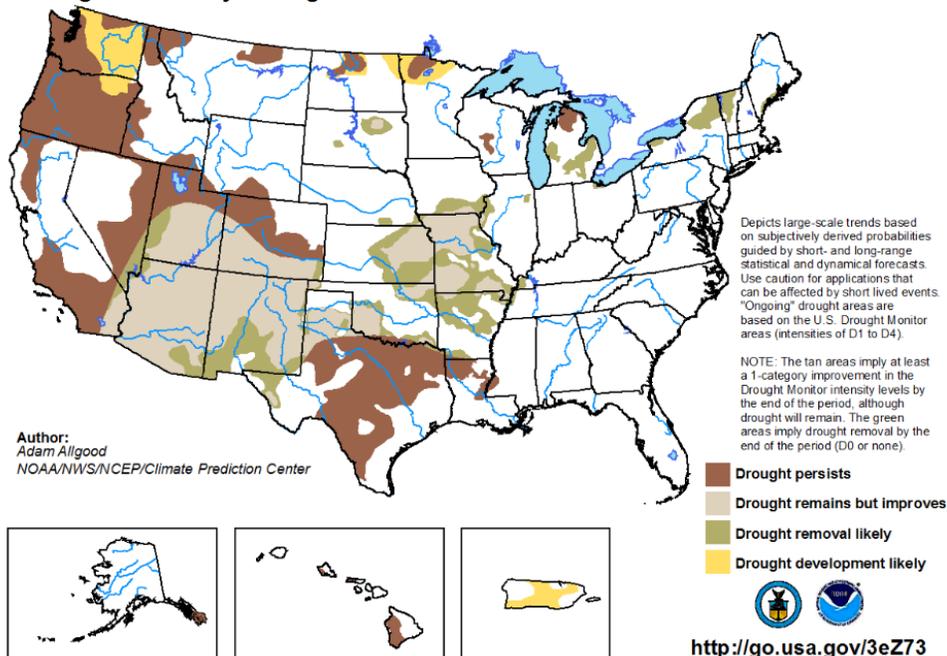
Source: National Interagency Fire Center



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

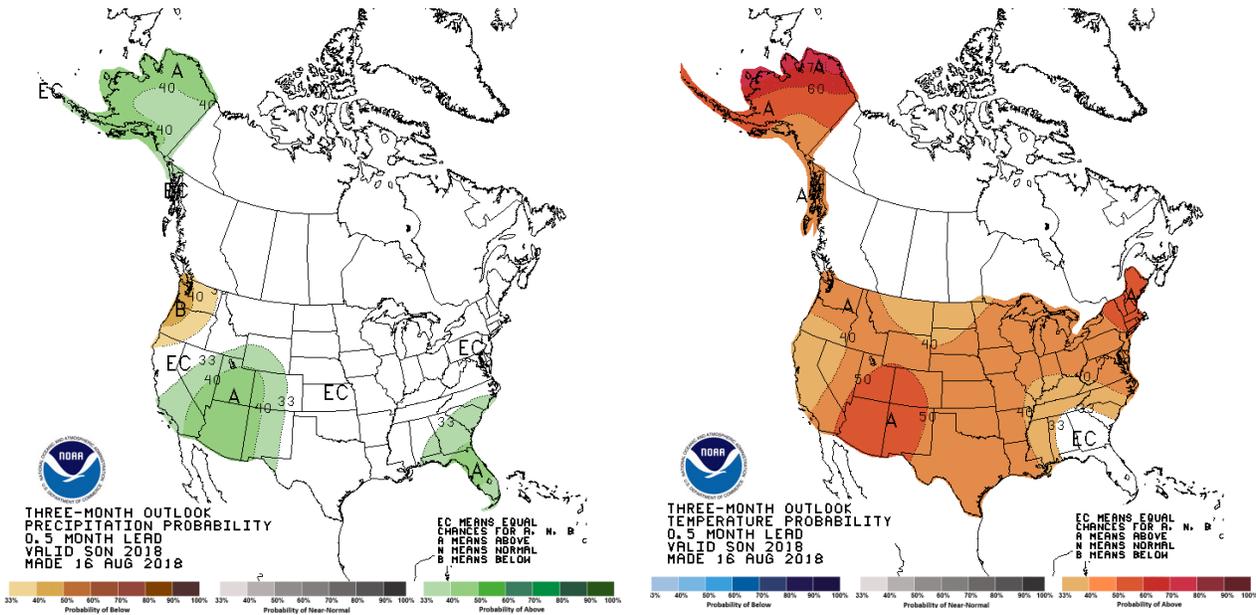


Climate Prediction Center 3-Month Outlook

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](#).