

Water and Climate Update

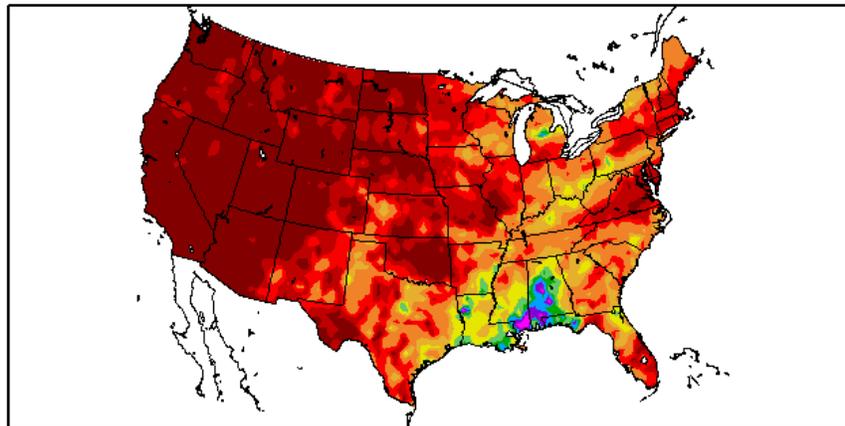
June 29, 2017

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.

<i>Precipitation</i>	2	<i>Other Climatic and Water Supply Indicators</i>	10
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Tropical Storm Cindy drenches areas from the Southeast to the Midwest

Precipitation (in)
6/21/2017 - 6/27/2017



Generated 6/28/2017 at HPRCC using provisional data.

Regional Climate Centers

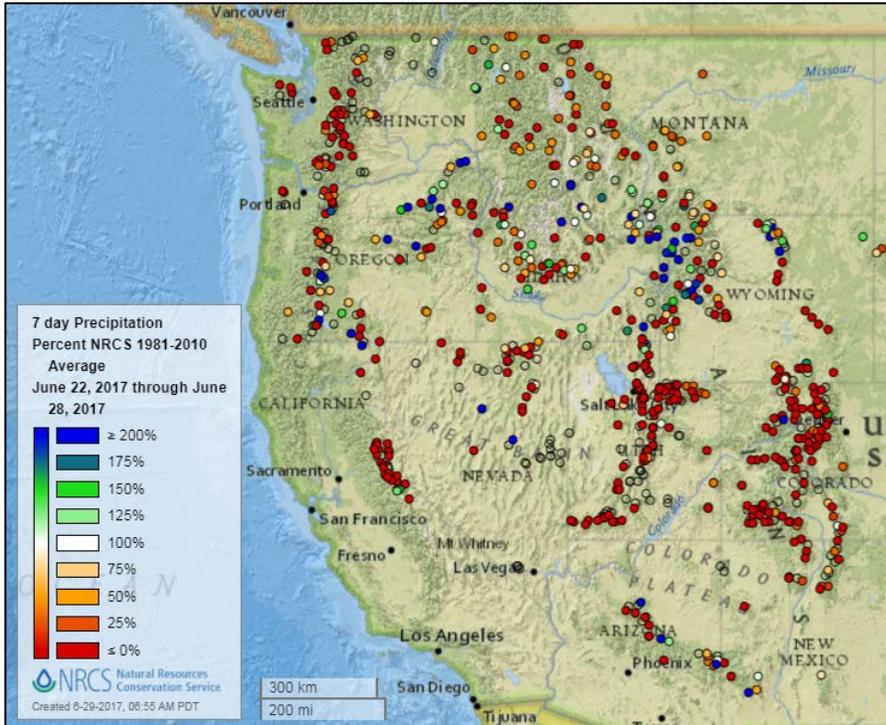
Tropical Storm Cindy made landfall along the Gulf Coast, dropping over a foot of rain in some locations this past week. As it moved inland it was downgraded to a tropical depression, but heavy rainfall continued along the path to the Midwest and Northeast. Severe flooding was reported in the heavy rainfall areas in the South, whereas moderate to minor flooding occurred along Cindy's inland path. Midwest and Northeast rainfall totals were in the 2- to 4-inch range.

More information:

- [Cindy's remnants: Street flooding from South to the Midwest](#)
- [Cindy's major flood threat to persist as storm unleashes up to a foot of rain](#)
- [Southern Cities Cope With Flooding as Storm Remnants Move East](#)
- [Flooding, power outages and other fallout across Alabama from Tropical Storm Cindy](#)
- [Remnants of Tropical Storm Cindy: Emergency Declared in Two Michigan Counties](#)

Precipitation

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

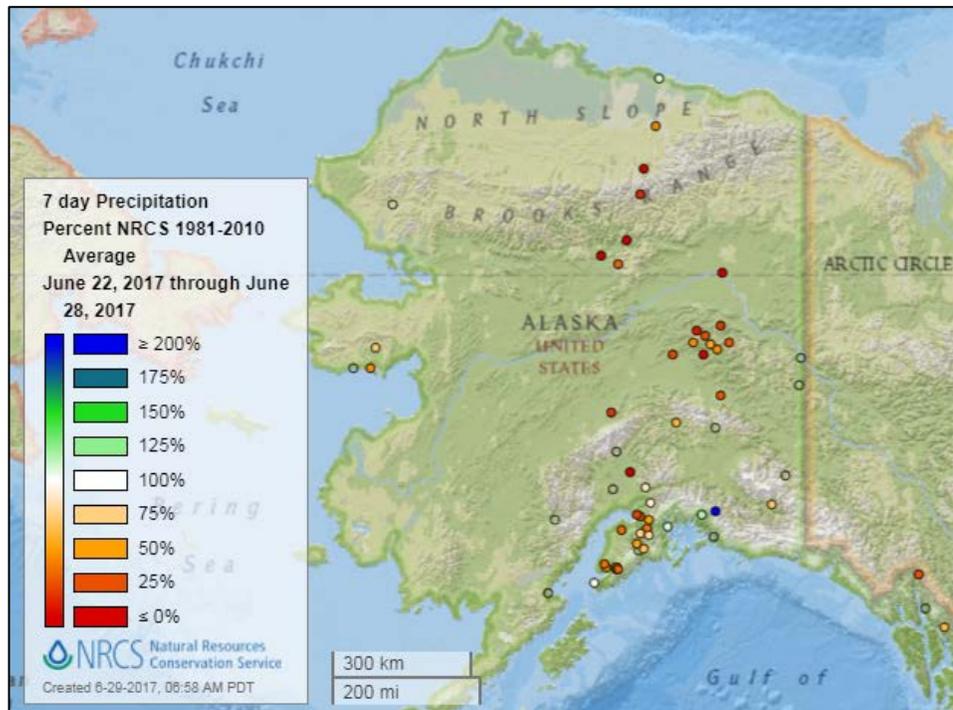


[7-day precipitation percent of average map](#)

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](#)



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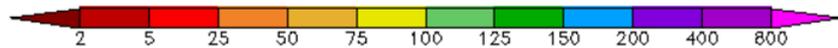
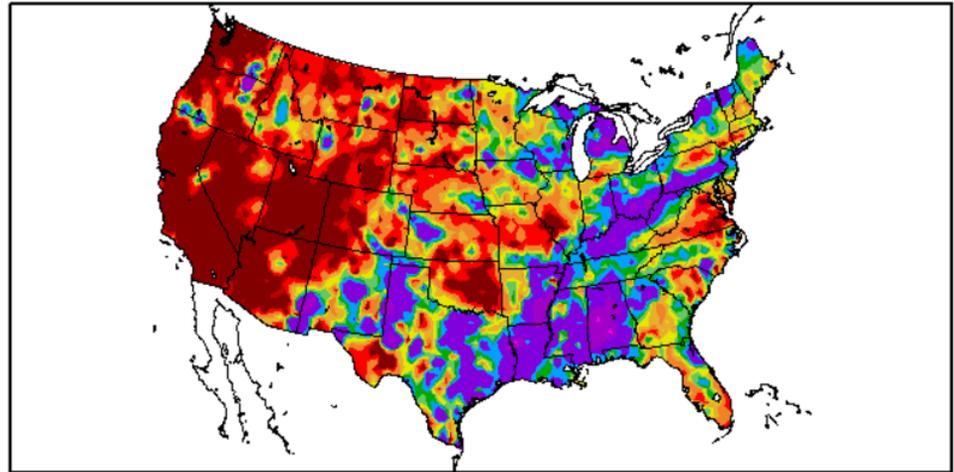
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

Percent of Normal Precipitation (%)
6/22/2017 – 6/28/2017

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



Generated 6/29/2017 at HPRCC using provisional data.

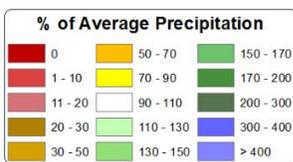
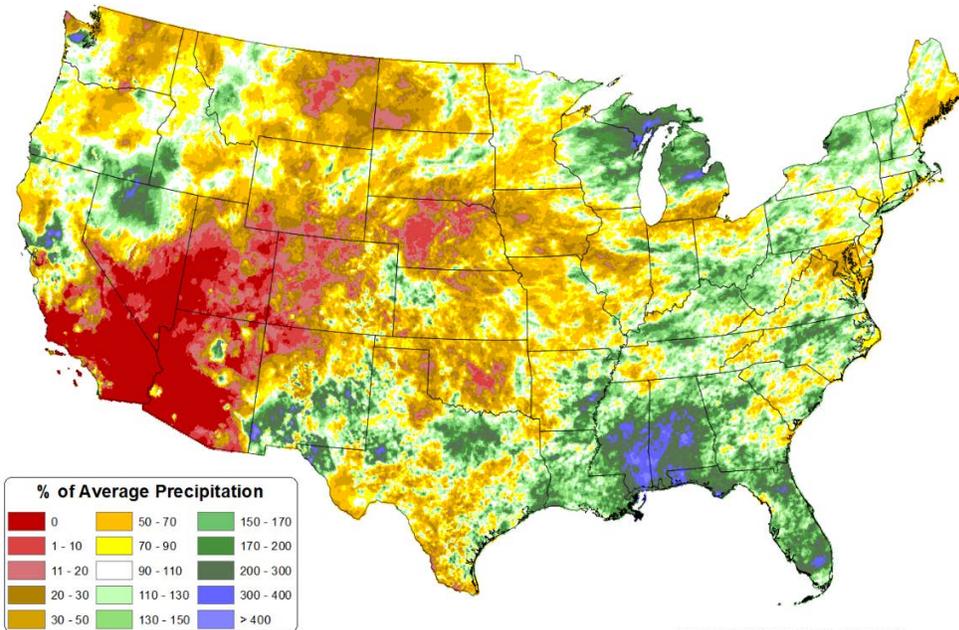
Regional Climate Centers

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

Source: PRISM

Total Precipitation Anomaly: 01 June 2017 - 27 June 2017
Period ending 7 AM EST 27 Jun 2017
Base period: 1981-2010
(Map created 29 Jun 2017)

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

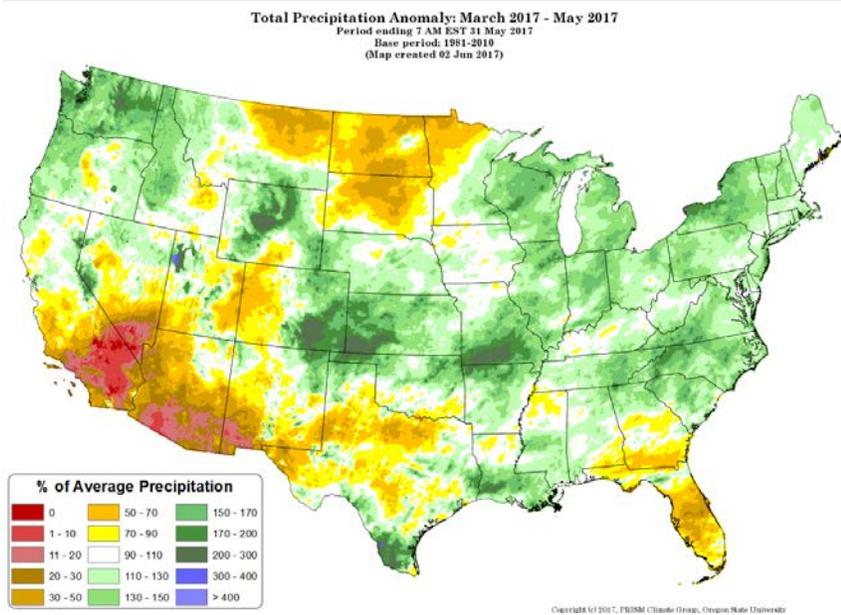


Copyright © 2017, PRISM Climate Group, Oregon State University

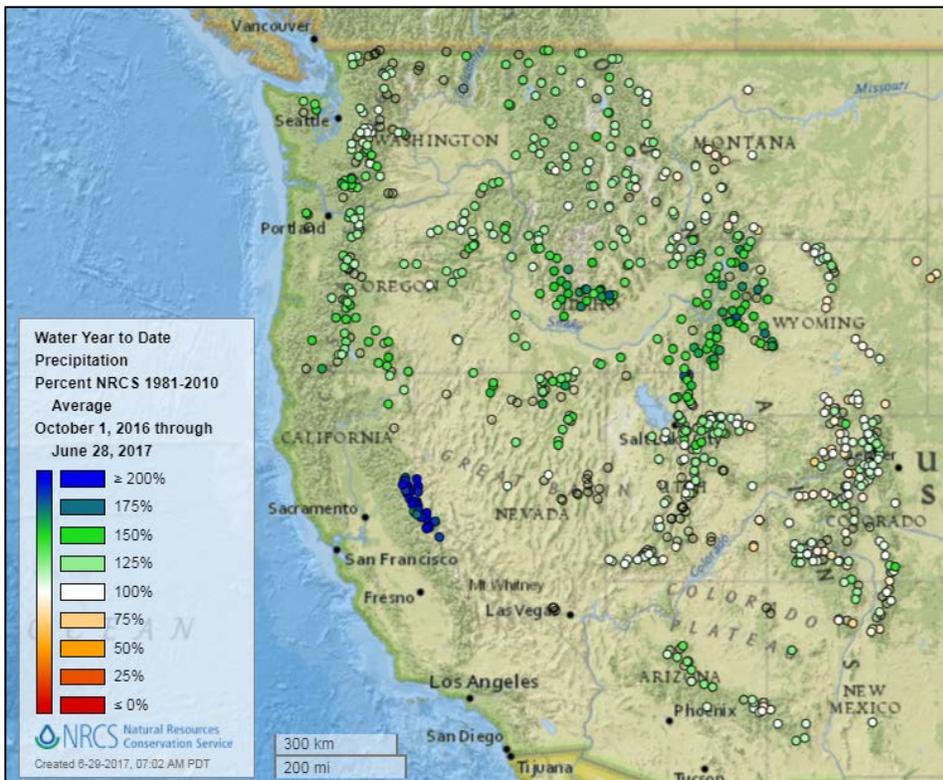
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

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



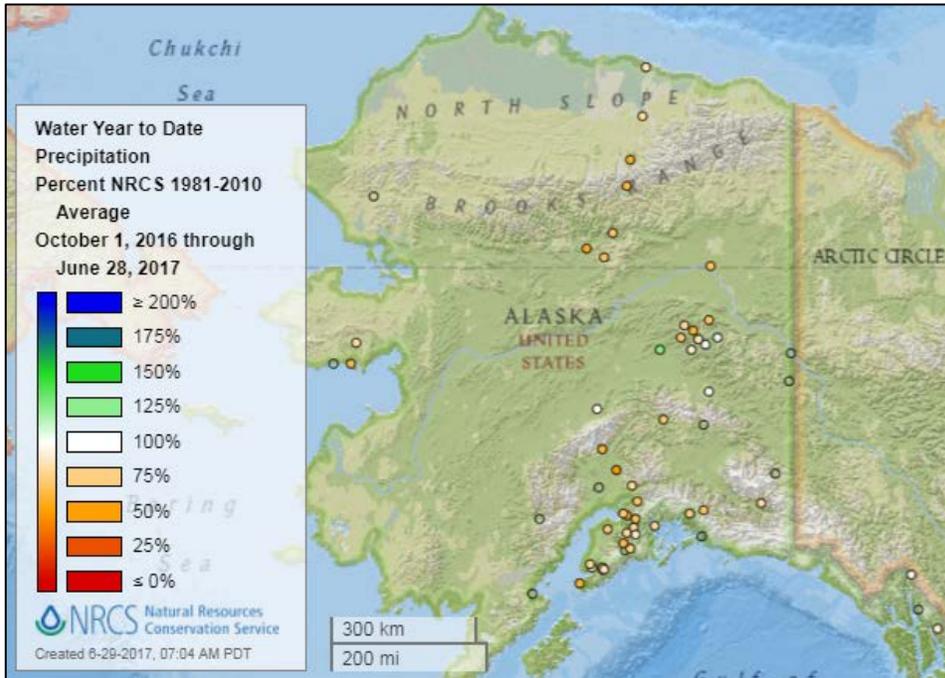
Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



[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

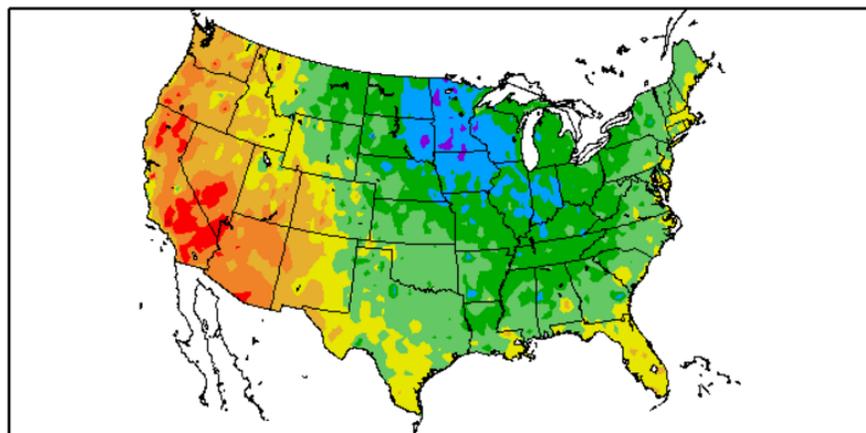
Last 7 Days, National Weather Service (NWS) Networks

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)
6/22/2017 – 6/28/2017



Generated 6/29/2017 at HPRCC using provisional data.

Regional Climate Centers

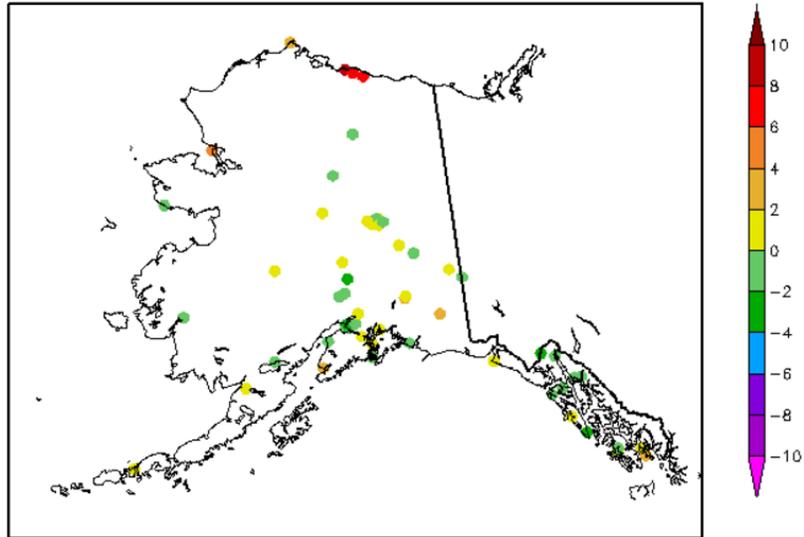
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
6/22/2017 - 6/28/2017



Generated 6/29/2017 at HPRCC using provisional data.

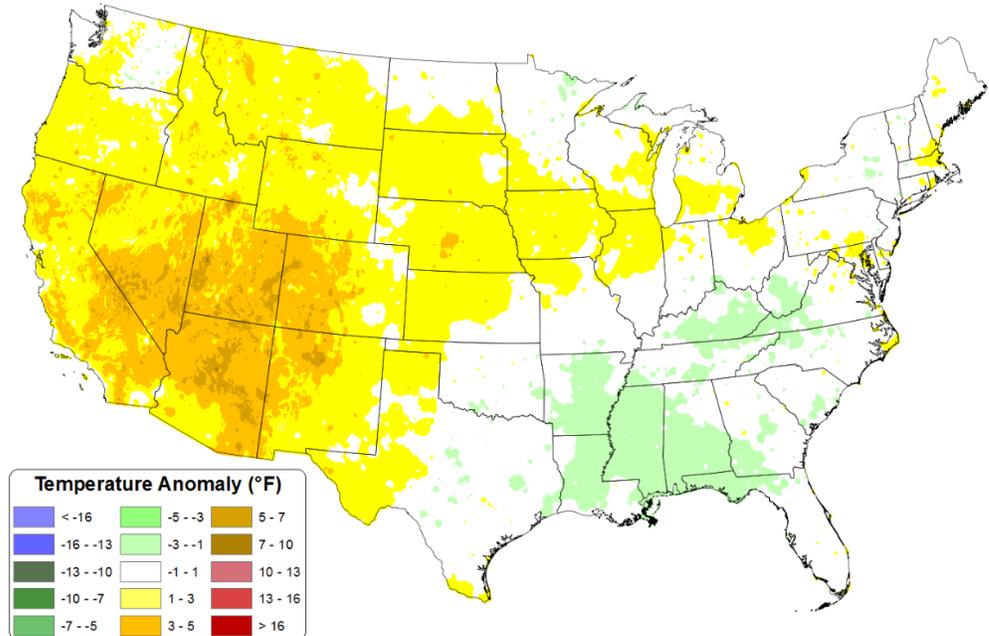
Regional Climate Centers

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

Source: PRISM

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

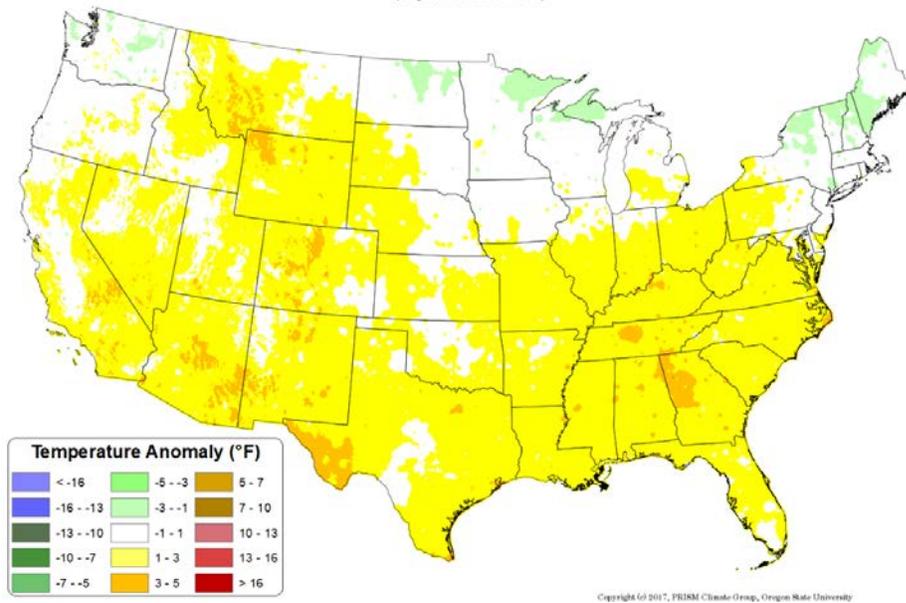
Daily Mean Temperature Anomaly: 01 June 2017 - 27 June 2017
Period ending 7 AM EST 27 Jun 2017
Base period: 1981-2010
(Map created 28 Jun 2017)



Copyright © 2017, PRISM Climate Group, Oregon State University

Daily Mean Temperature Anomaly: March 2017 - May 2017
 Period ending 7 AM EST 31 May 2017
 Base period: 1981-2010
 (Map created 02 Jun 2017)

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



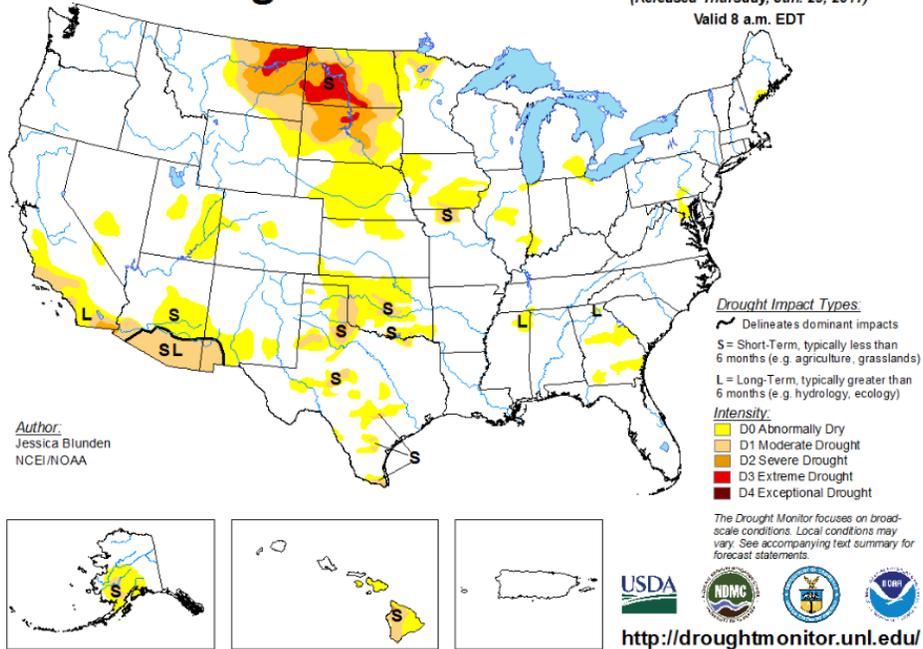
Drought

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

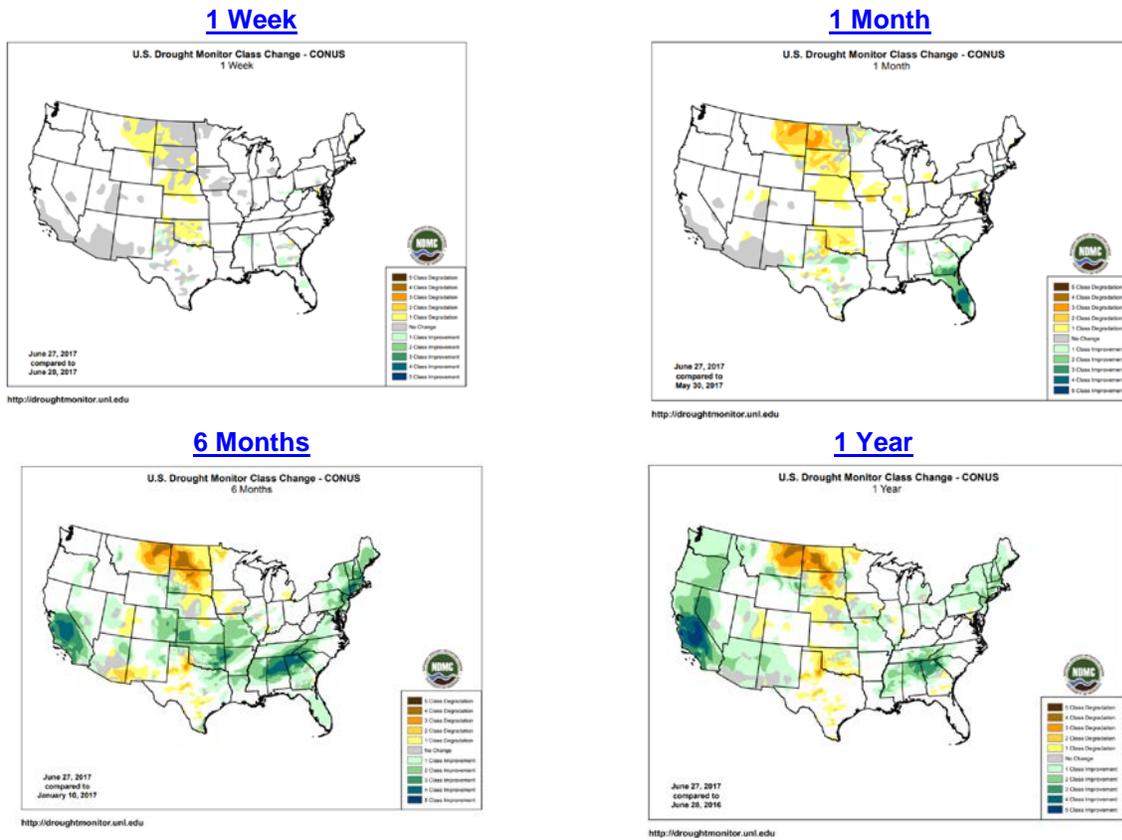
[U.S. Drought Portal](#) Comprehensive drought resource.

U.S. Drought Monitor

June 27, 2017
 (Released Thursday, Jun. 29, 2017)
 Valid 8 a.m. EDT



Changes in Drought Monitor Categories over Time



[Changes in drought conditions over the last 12 months](#)

Current National [Drought Summary](#), June 27, 2017

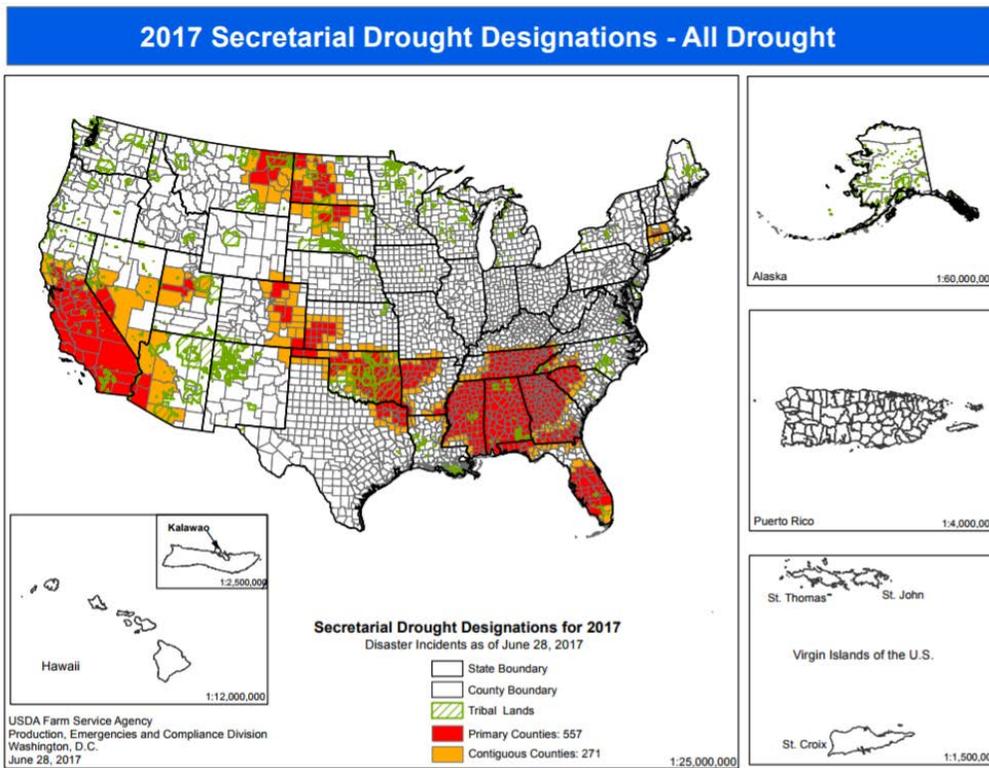
Author: Jessica Blunden, NOAA/NCEI

“All substantial precipitation over the past week fell over the eastern half and southern portion of the United States. Tropical Storm Cindy played a large role. The storm made landfall near the Louisiana-Texas border on June 22, bringing heavy rains and subsequent flooding to parts of the South and the Ohio Valley. Dry areas in the path of Cindy saw immediate improvements, as reflected on this week’s drought map. Heat and lack of rain dominated from the West to the central and south central U.S., with temperatures rising into the 90s, 100s, and even into the 120s in some areas, with many temperature records broken. This led to some quickly deteriorating conditions across the heart of the country. Although temperatures were well below normal in the Northern Plains from the 23rd through the 27th, this did not help conditions; unfortunately there was little to no accompanying rain.”

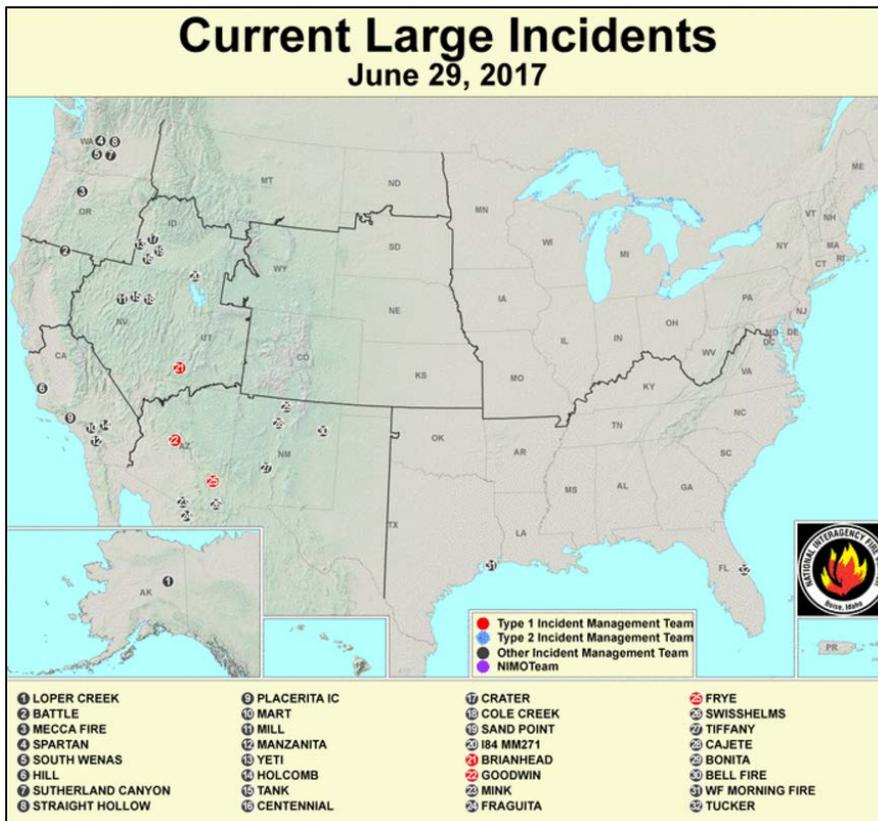
Highlighted Drought Resources

- [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](#)

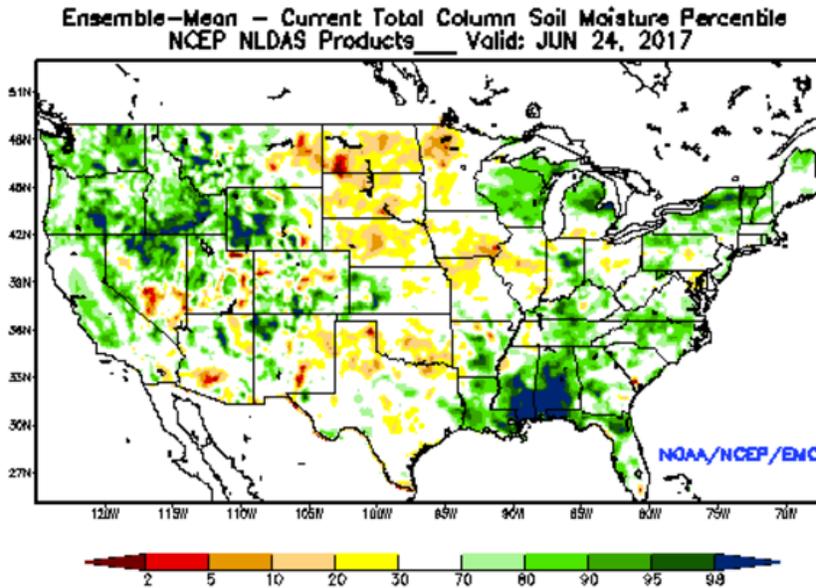


Wildfires: [USDA Forest Service Active Fire Mapping](#)



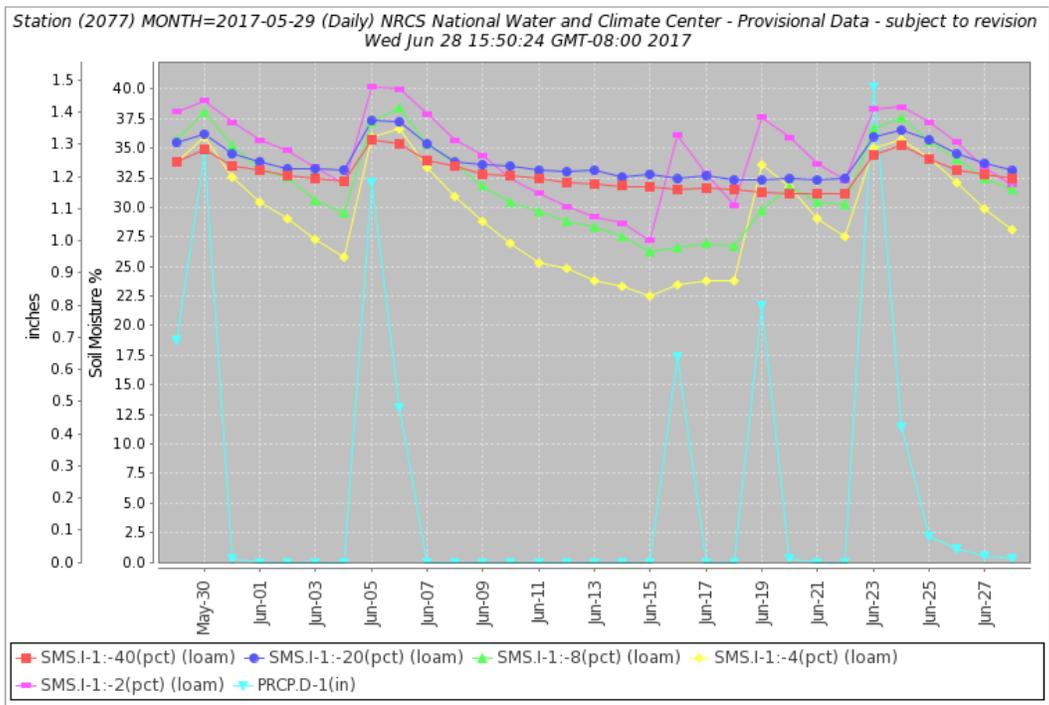
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of June 24, 2017.

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



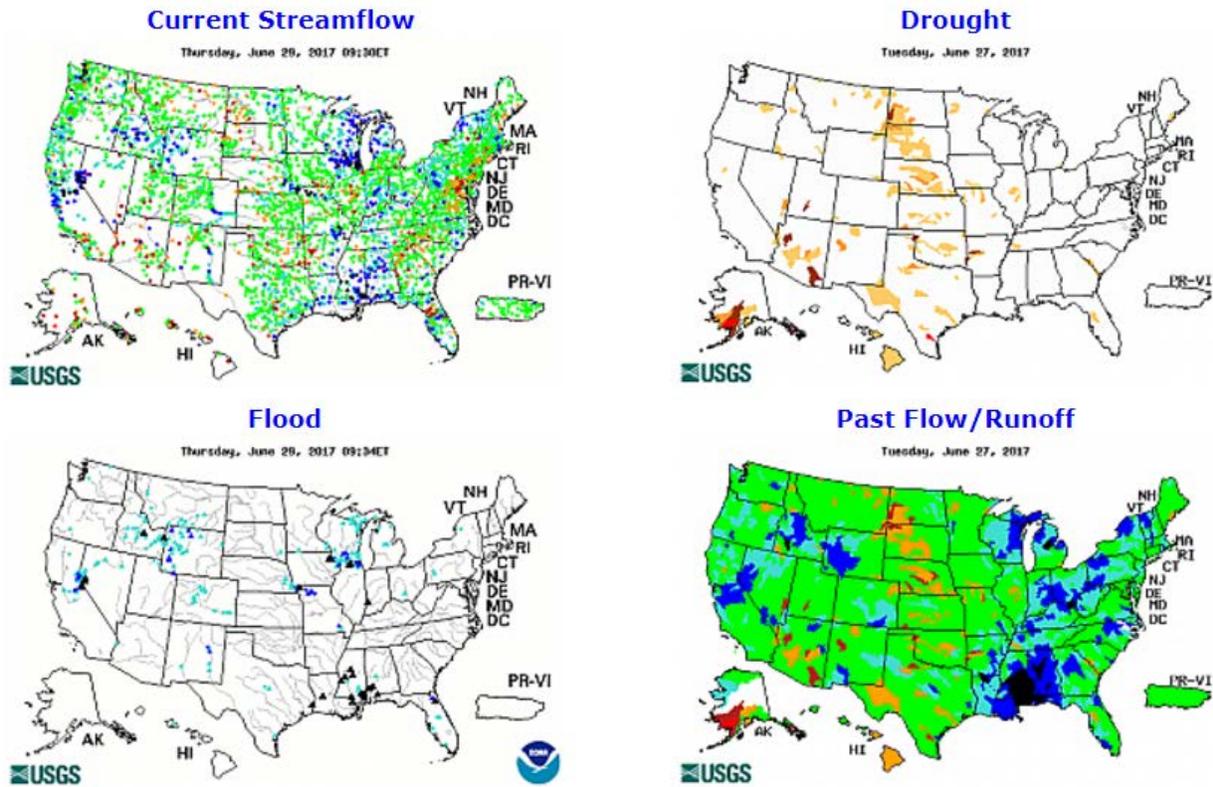
Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the past 30 days at the [Eastview Farm SCAN site 2077](#) in Tennessee. The 2-, 4-, and 8-inch depth sensors recorded soil moisture increases for all the rainfall events in the last month, whereas the deeper sensors at 20 and 40 inches only reported soil moisture increases for precipitation events exceeding 1 inch in a day.

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

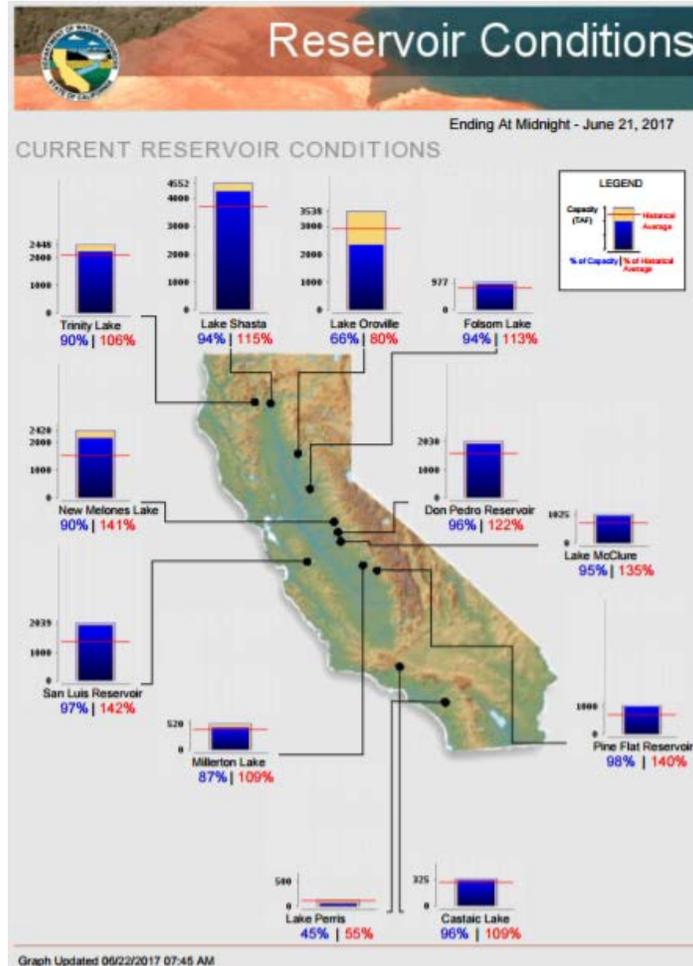
Reservoir Storage

[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](#)



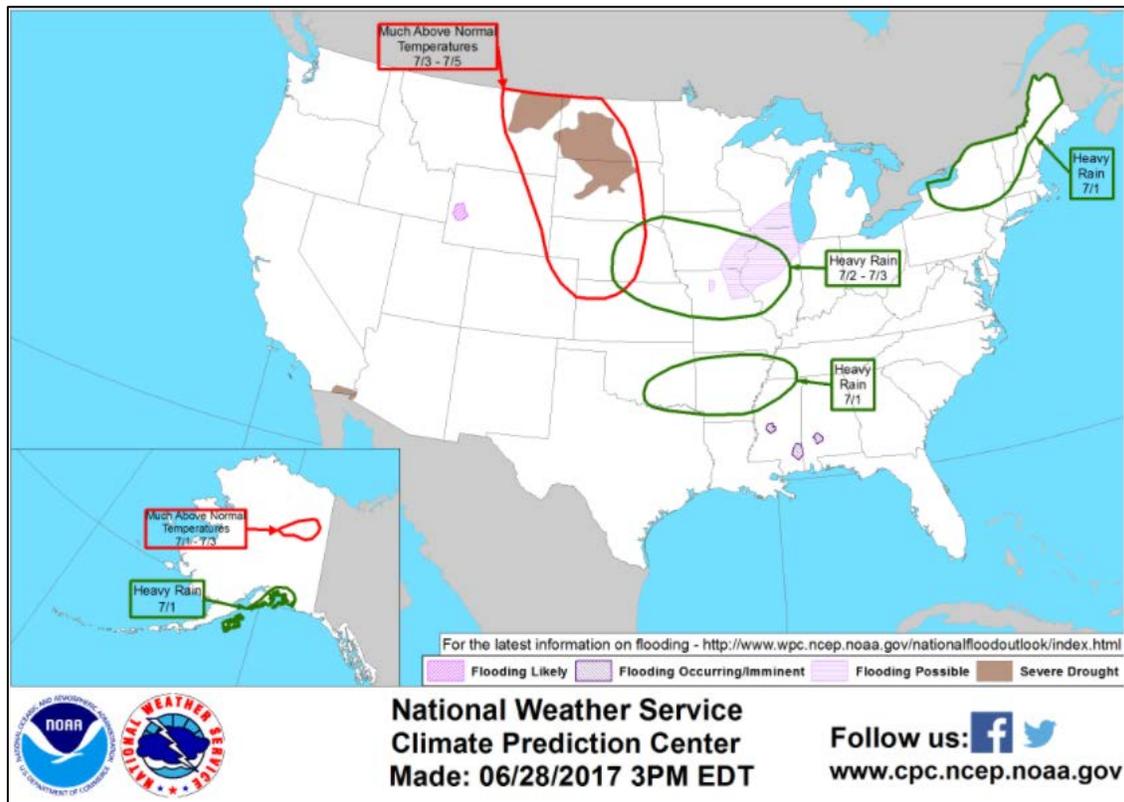
Short- and Long-Range Outlooks

Agricultural Weather Highlights

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

[National Outlook, Thursday, June 29, 2017](#): “A cold front crossing the Midwest, and eventually the Mid-Atlantic, will continue to generate widespread thunderstorms through Saturday. A subsequent disturbance will result in additional showers early next week across the nation’s mid-section. Five-day rainfall totals could reach 1 to 4 inches across the Midwest and the eastern Plains, but only light showers can be expected on the northern High Plains. Elsewhere, showers will linger through week’s end in the Southeast, while dry weather will accompany a return to hot weather in the Far West, as well as southern Texas. By the weekend, heat will again cover nearly all of the western U.S. The NWS 6- to 10-day outlook for July 4 – 8 calls for the likelihood of warmer-than-normal weather nationwide, except for near normal temperatures in the Pacific Northwest. Meanwhile, near- to below-normal rainfall in most of the country will contrast with wetter-than-normal conditions from the middle Mississippi Valley into the Mid-Atlantic region.”

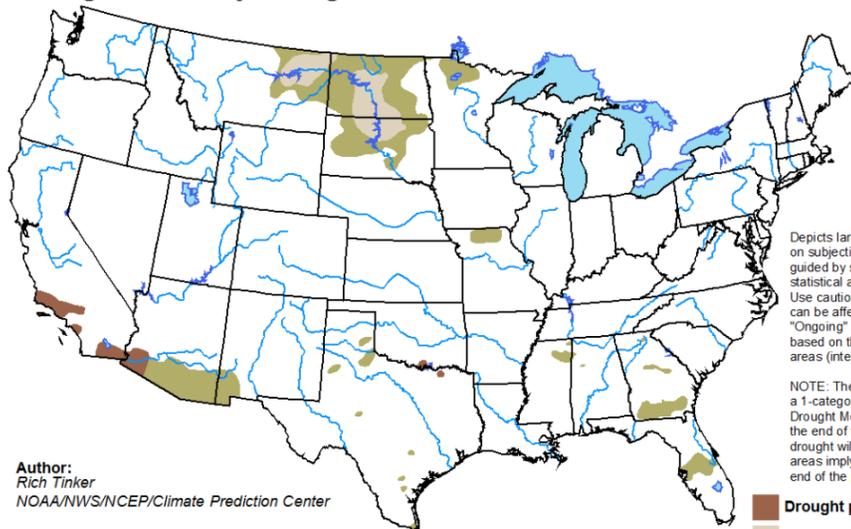
NWS Climate Prediction Center Weather Hazard Outlook: [July 1 - 5, 2017](#)



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



Author:
Rich Tinker
NOAA/NWS/NCEP/Climate Prediction Center

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).

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

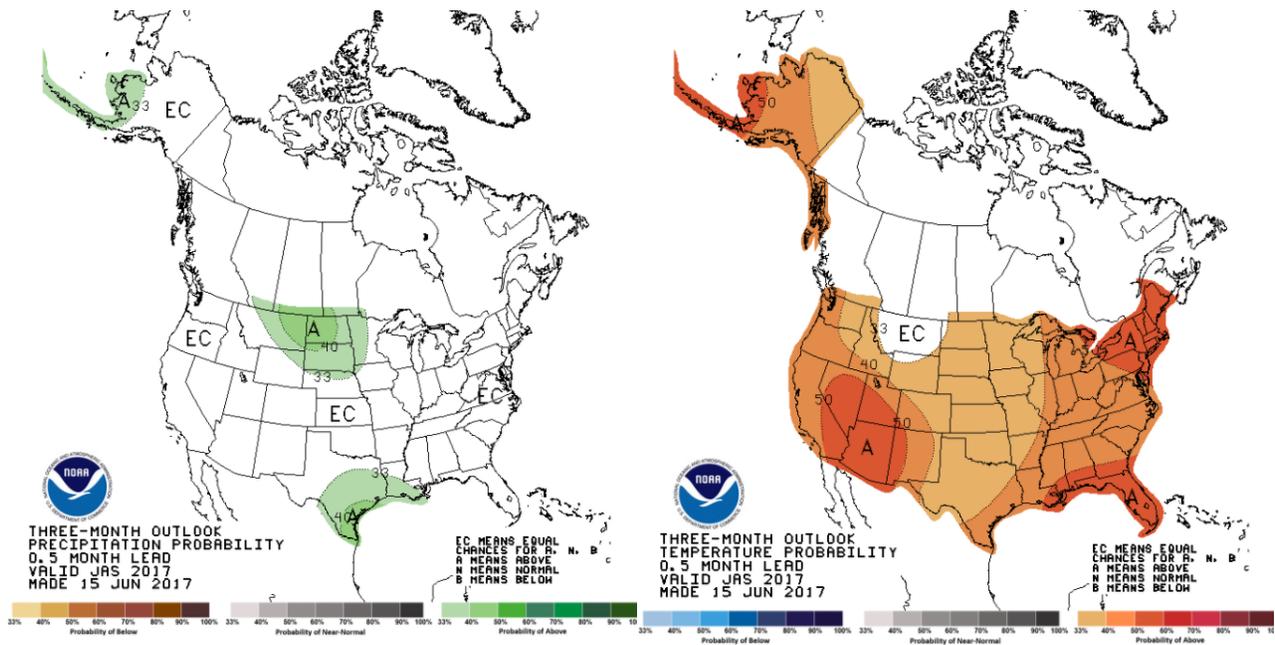


<http://go.usa.gov/3eZ73>

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](#).