

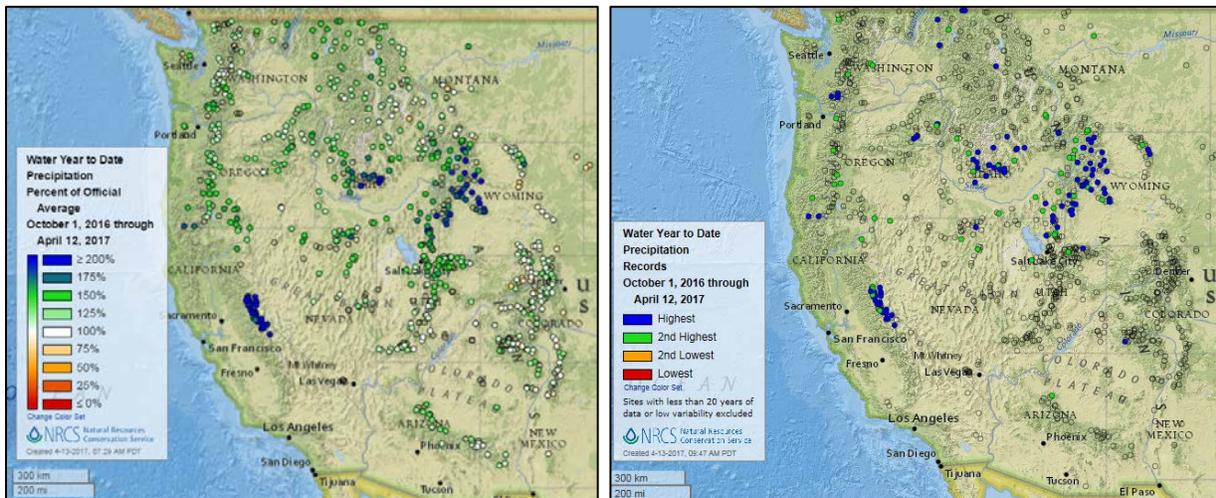
# Water and Climate Update

April 13, 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.

Snow.....	2	Other Climatic and Water Supply Indicators .....	10
Precipitation .....	3	Short- and Long-Range Outlooks.....	13
Temperature.....	6	More Information.....	15
Drought.....	9		

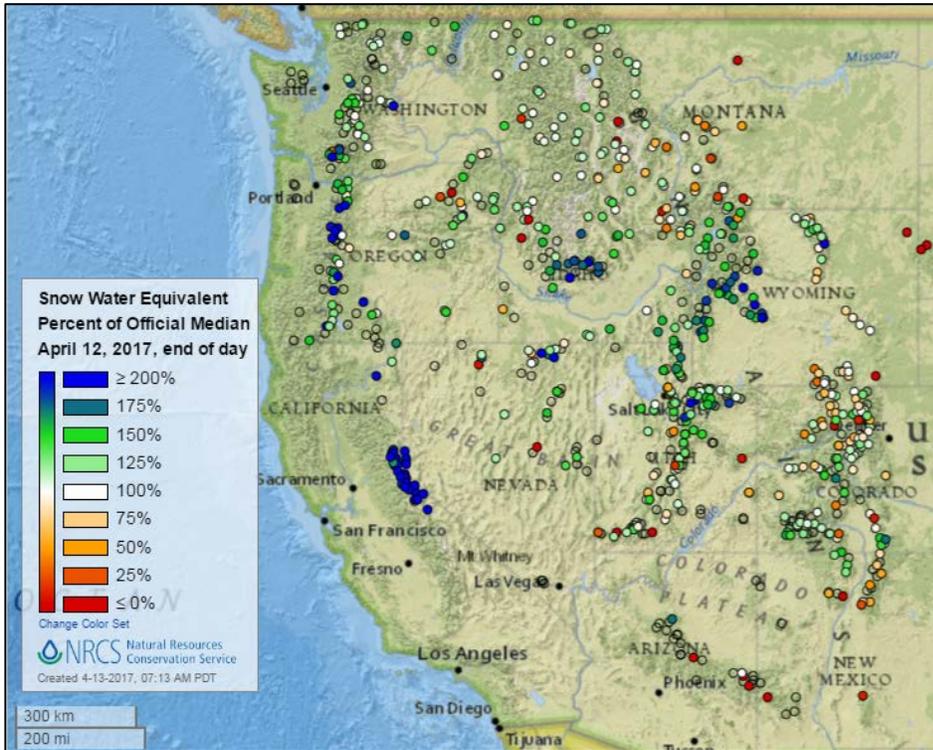
## Water year precipitation at or above average for the West



Across the mountains in the western U.S., the Snow Telemetry (SNOTEL) system is reporting most stations at or above average precipitation for the water year that began on October 1, 2016. Currently, stations indicated in green and blue on the map to the left are well above average. The map on the right shows that several stations are reporting record or second highest record precipitation. The areas with record precipitation are in the Sierra Nevada, central and northern Rockies, and other stations scattered across the Cascades and central Idaho.

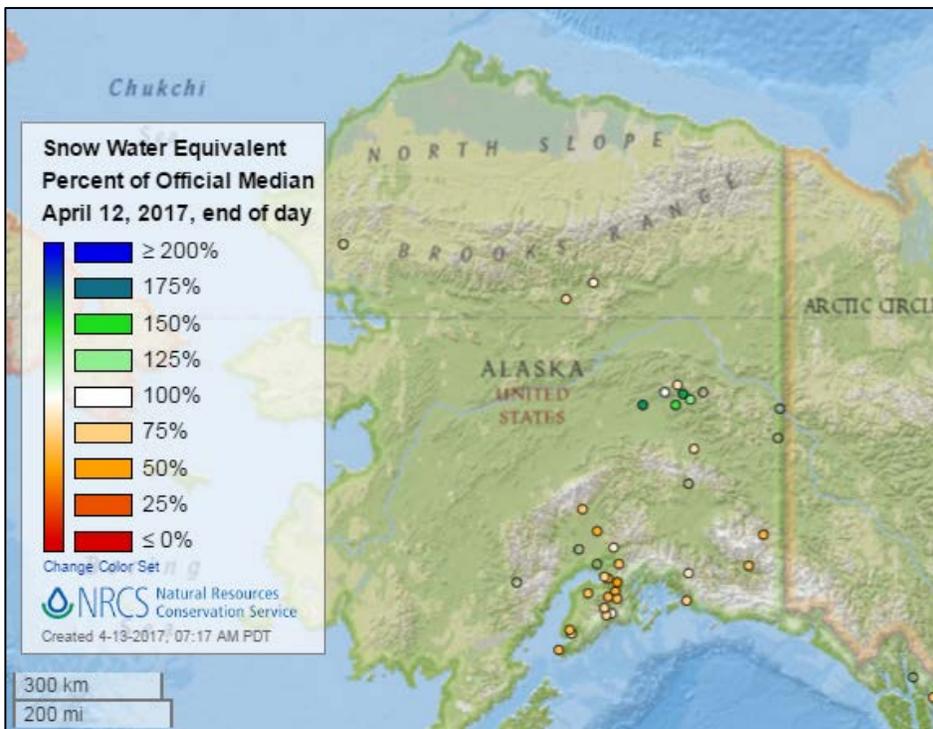
## Snow

### Current Snow Water Equivalent, NRCS SNOTEL Network



[Snow water equivalent percent of median map](#)

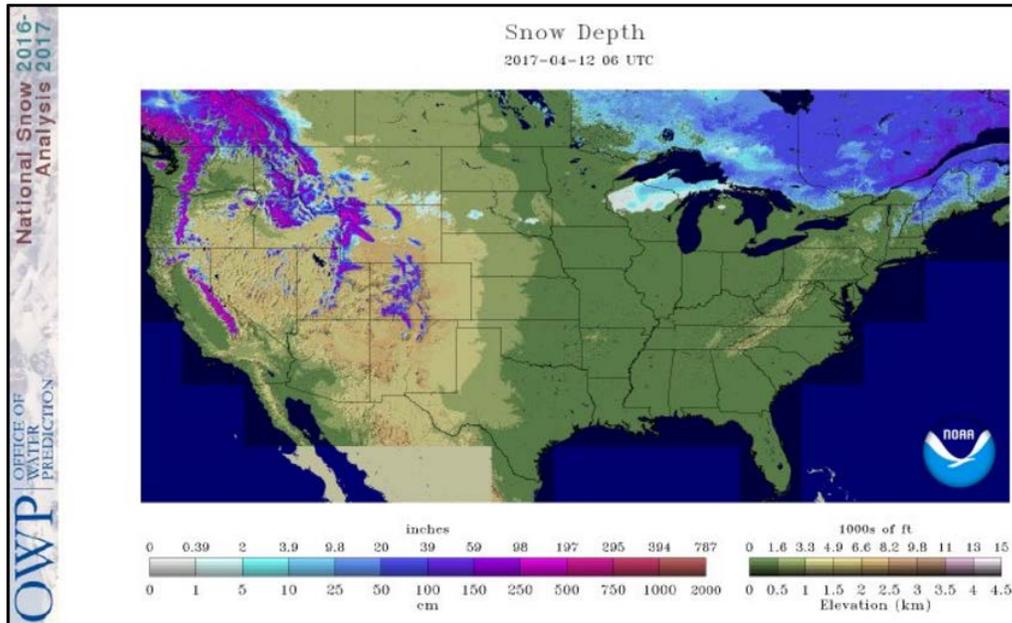
**See also:**  
[Snow water equivalent values \(inches\) map](#)



[Alaska snow water equivalent percent of median map](#)

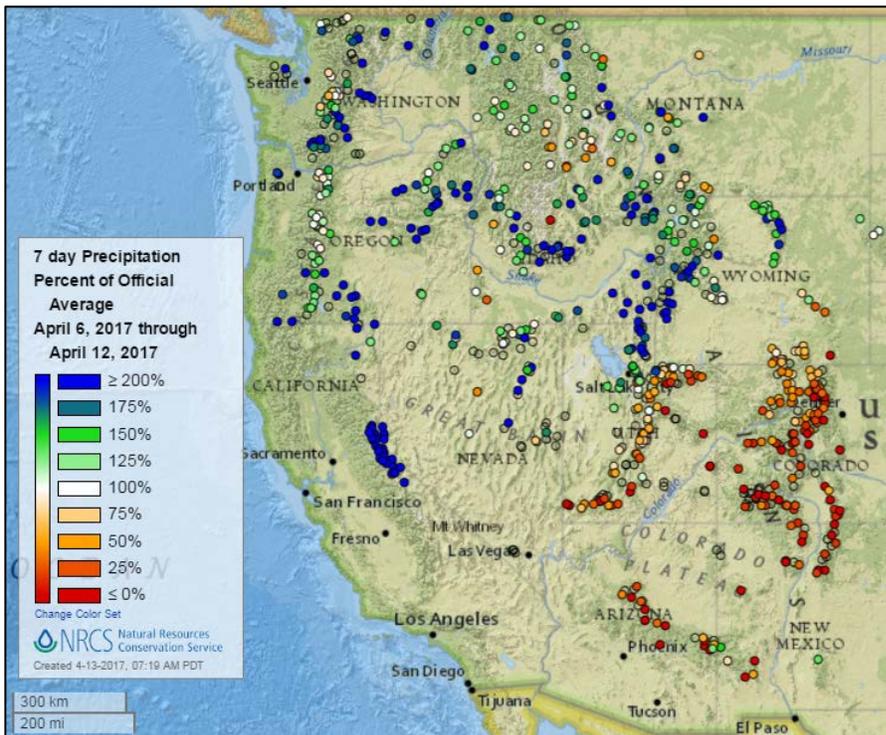
**See also:**  
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service (NWS) Networks



## Precipitation

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



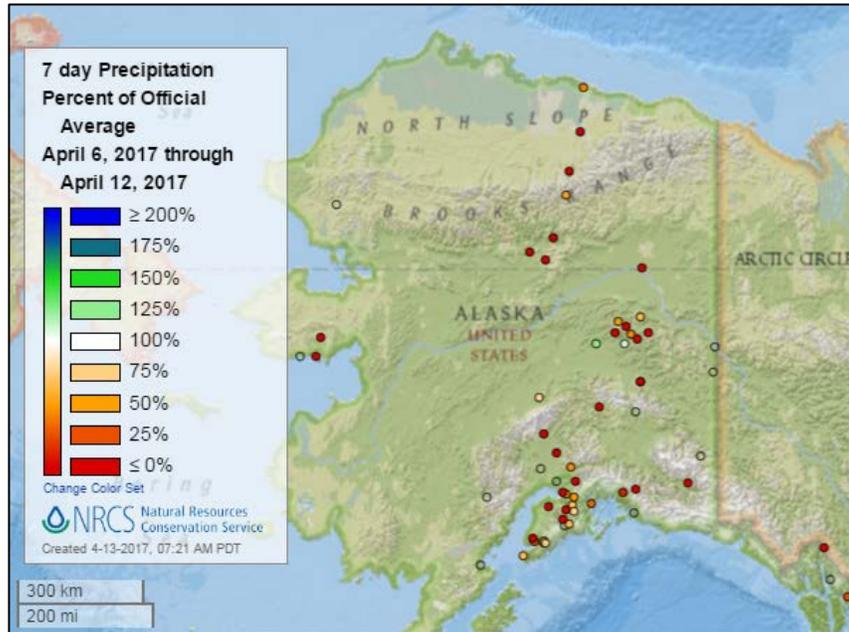
[7-day precipitation percent of average map](#)

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

# Water and Climate Update

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

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



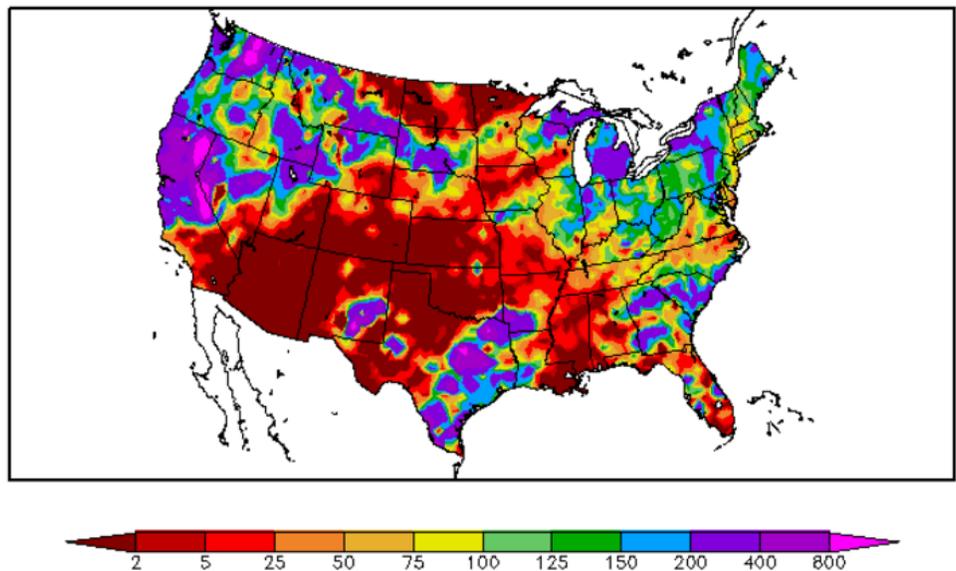
## Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

Percent of Normal Precipitation (%)  
4/6/2017 - 4/12/2017

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



Generated 4/13/2017 at HPRCC using provisional data.

Regional Climate Centers

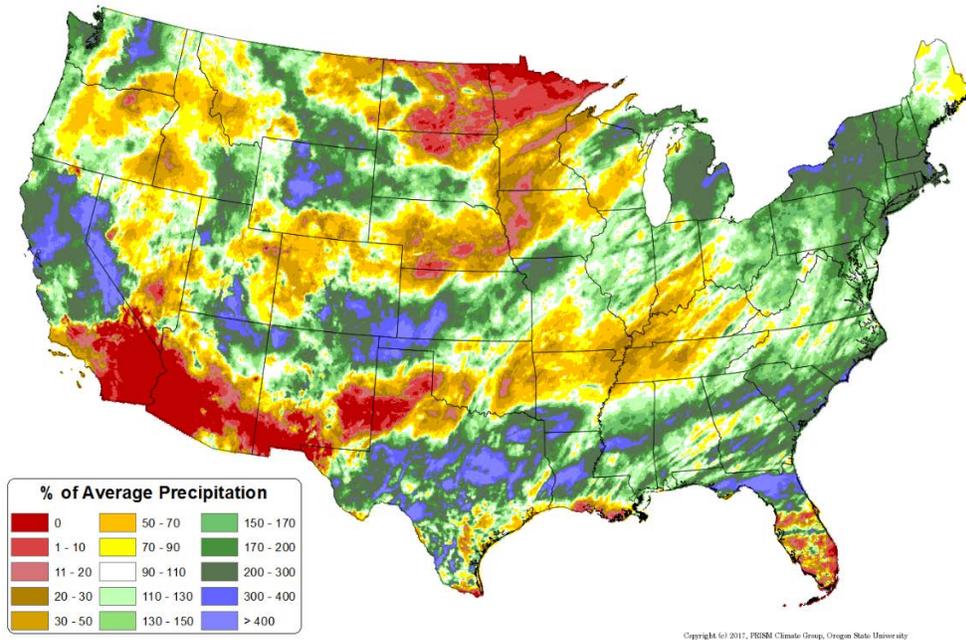
# Water and Climate Update

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

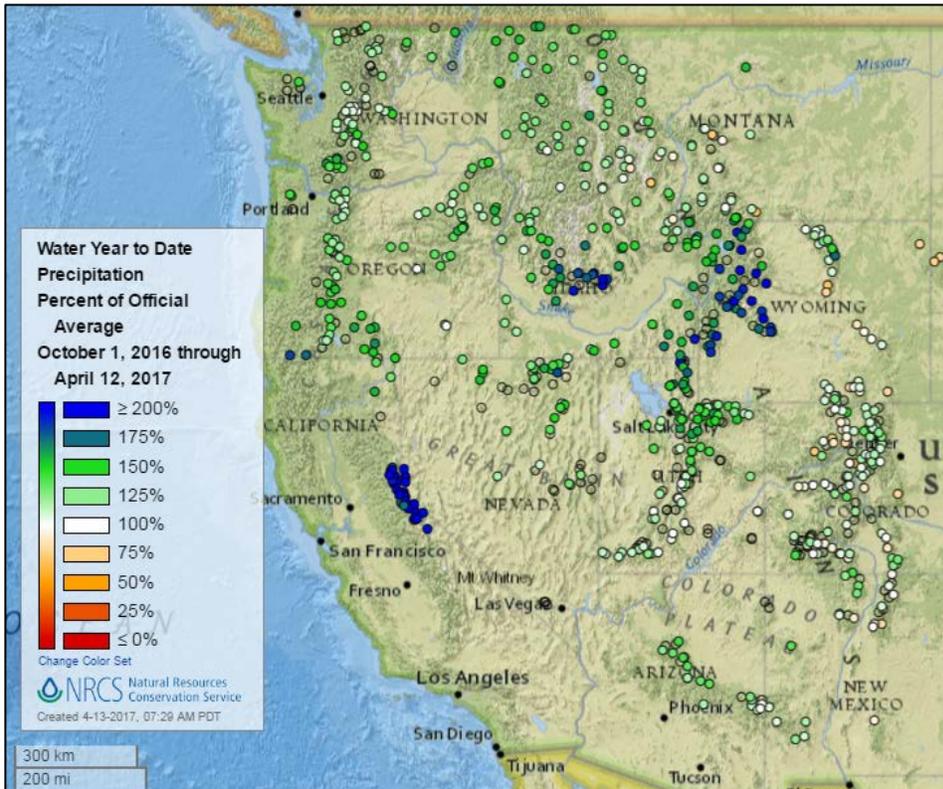
Source: PRISM

Total Precipitation Anomaly: 01 April 2017 - 12 April 2017  
Period ending 7 AM EST 12 Apr 2017  
Base period: 1981-2010  
(Map created 13 Apr 2017)

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



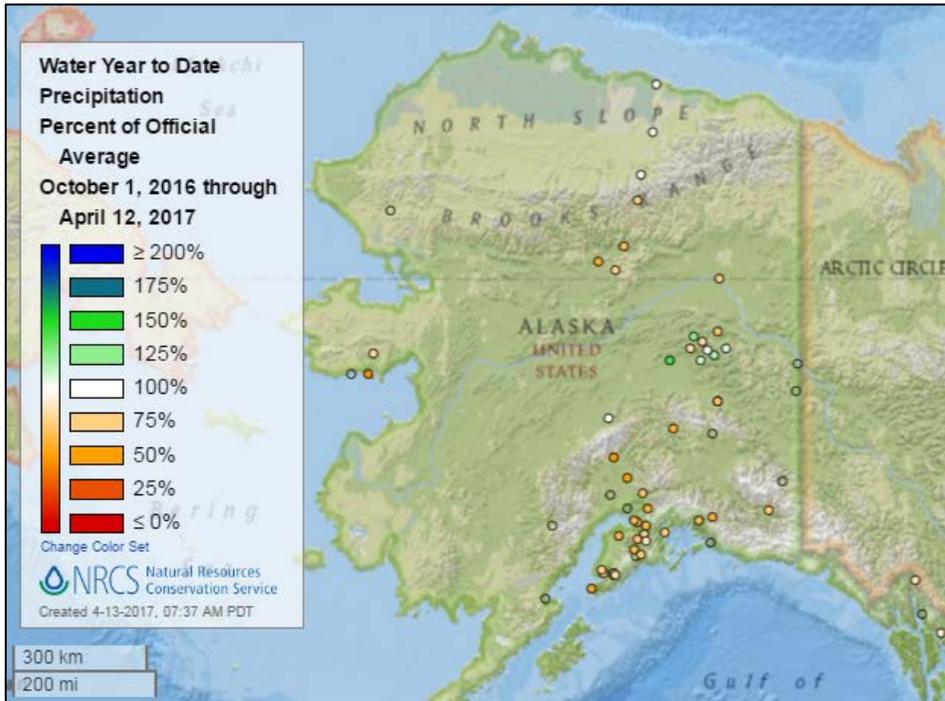
## Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



[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

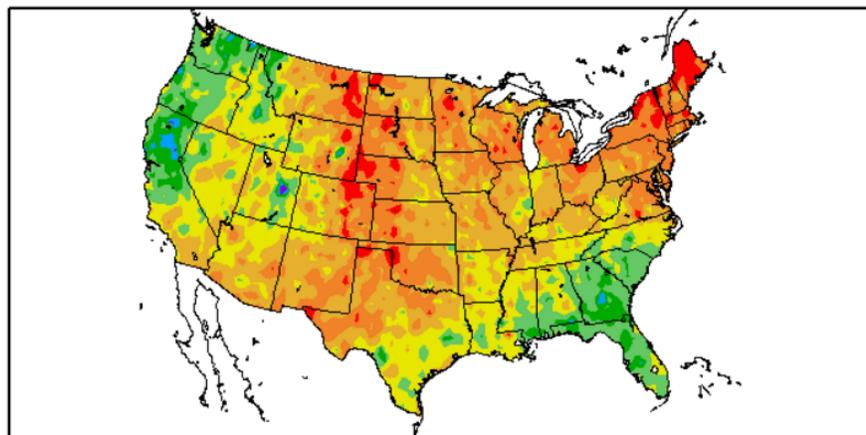
Last 7 Days, National Weather Service (NWS) Networks

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)  
4/6/2017 – 4/12/2017



Generated 4/13/2017 at HPRCC using provisional data.

Regional Climate Centers

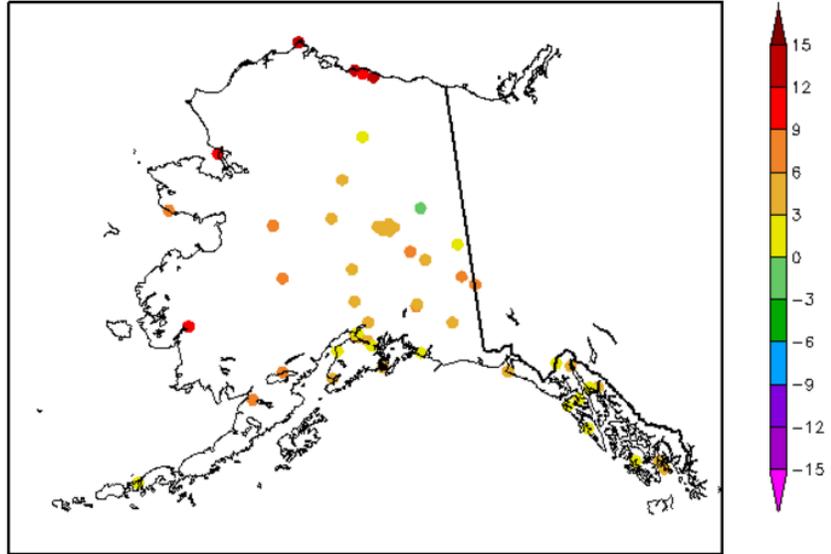
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)  
4/6/2017 - 4/12/2017



Generated 4/13/2017 at HPRCC using provisional data.

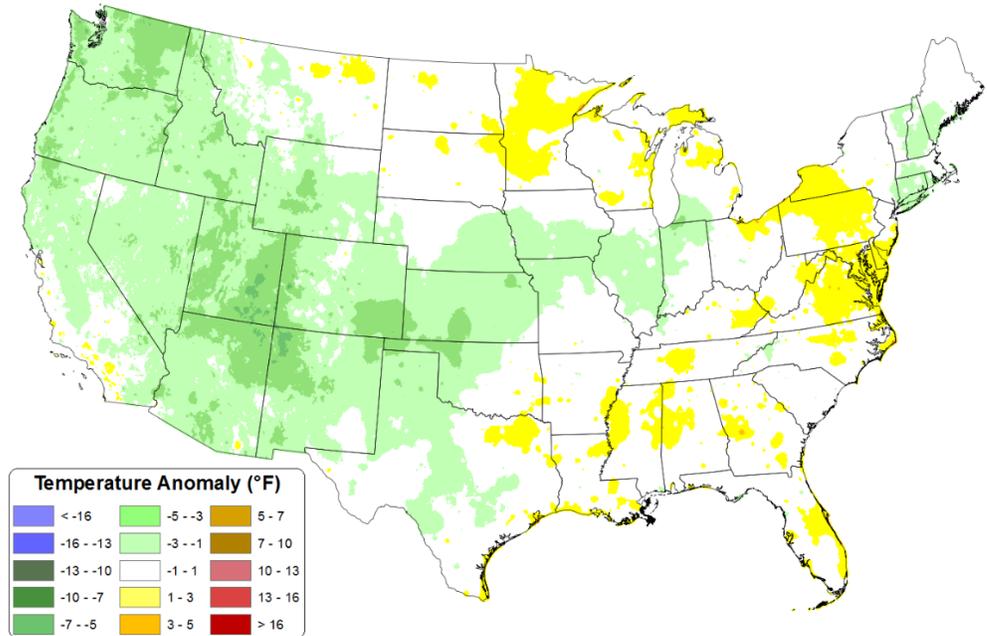
Regional Climate Centers

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

Source: PRISM

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

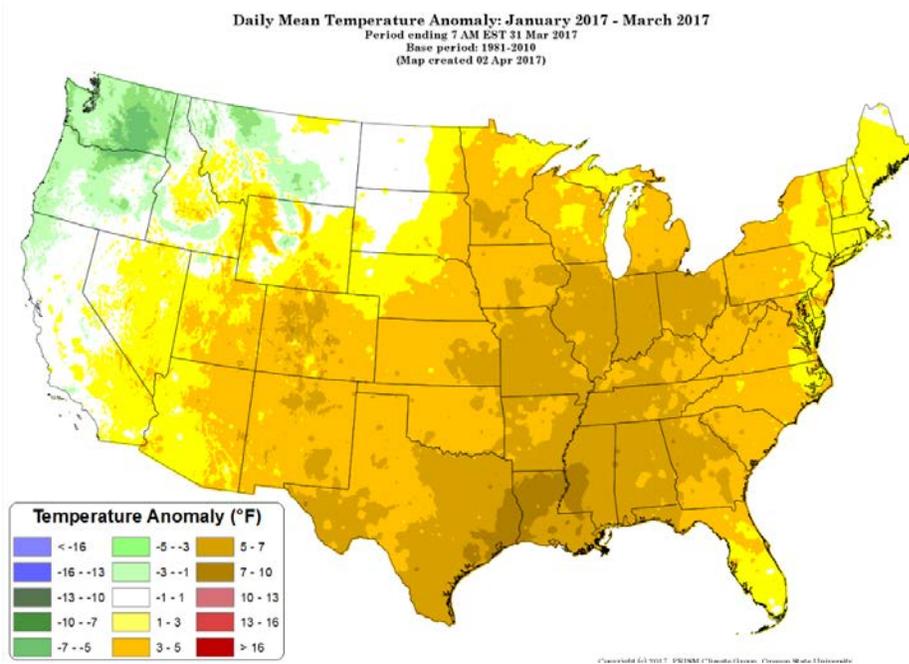
Daily Mean Temperature Anomaly: 01 April 2017 - 12 April 2017  
Period ending 7 AM EST 12 Apr 2017  
Base period: 1981-2010  
(Map created 13 Apr 2017)



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

Source: PRISM

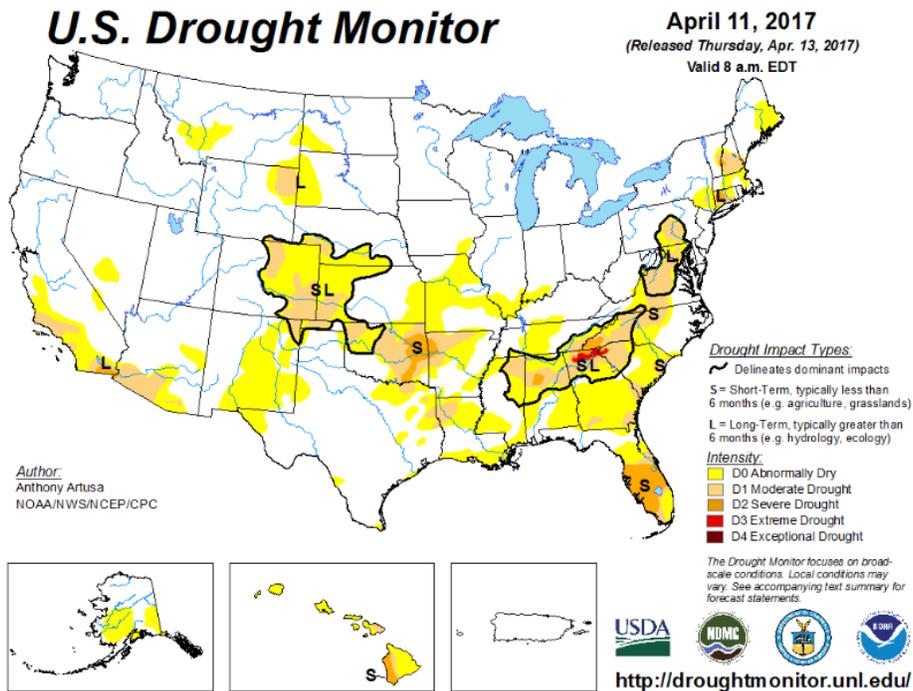


[January through March 2017 daily mean temperature anomaly map](#)

## Drought

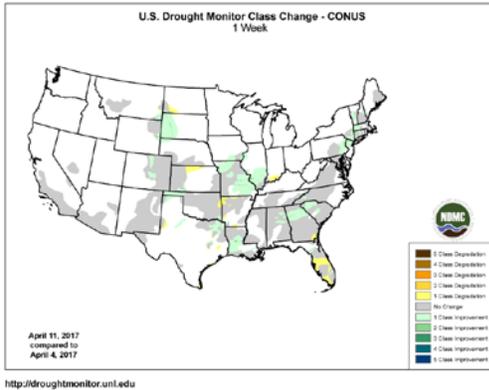
[U.S. Drought Monitor](#) See map below.

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

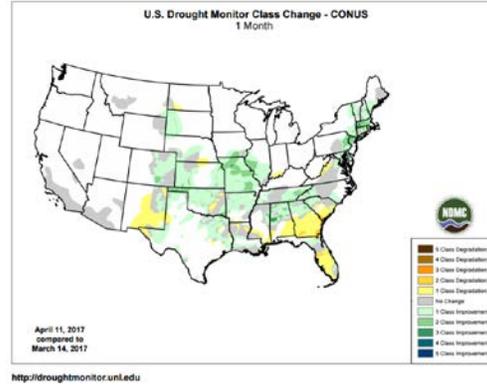


Changes in Drought Monitor Categories over Time

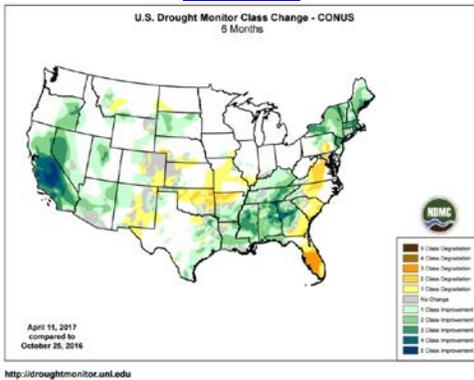
1 Week



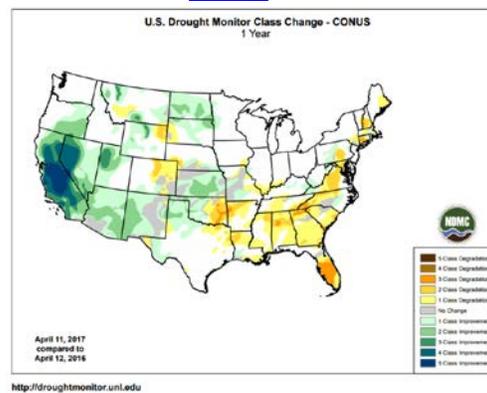
1 Month



6 Months



1 Year



Changes in drought conditions over the last 12 months

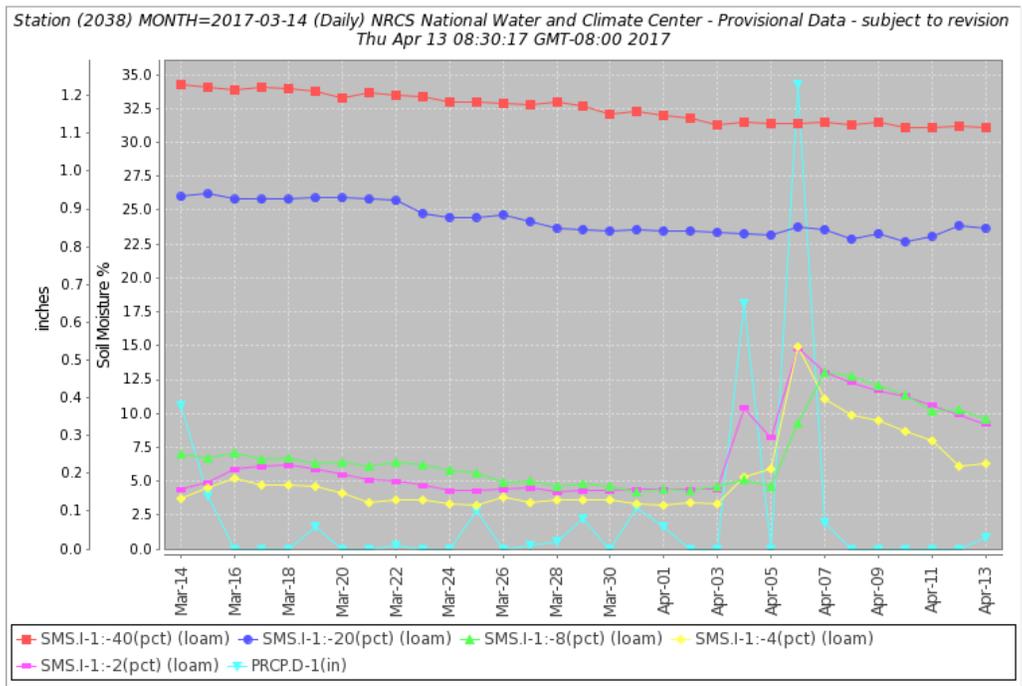
Current National [Drought Summary](#), April 11, 2017

Author: Anthony Artusa, NOAA/NWS/NCEP/CPC

“Moderate to heavy precipitation (generally 0.5-3.0 inches, locally greater) was widespread across the contiguous U.S. (CONUS) during the past 7-days, with the notable exception of the Southwest and the southern High Plains region. There were also numerous reports of severe weather over the central and eastern CONUS, and strong winds over portions of the Pacific Northwest and northern Rockies on April 7th.”



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



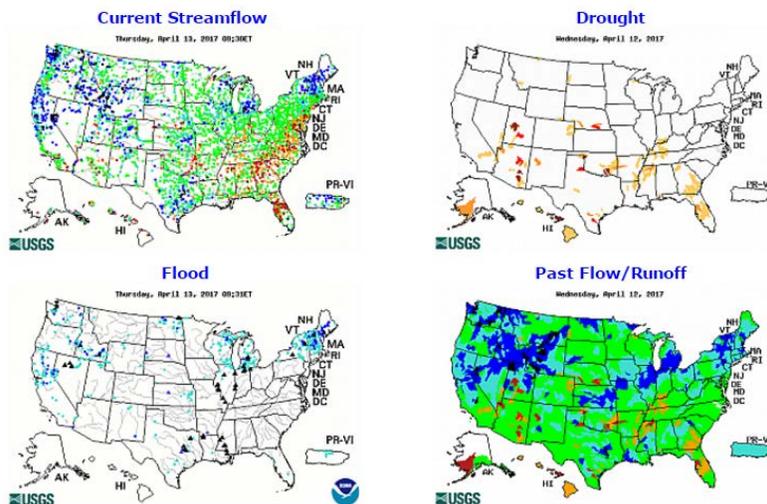
Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the last 30 days at the [Youmans Farm SCAN site 2038](#) in South Carolina. Precipitation during April 4 – 7 increased the soil moisture at the 2-, 4-, and 8-inch depth sensors. The 20-inch sensor also registered a slight change, whereas the 40-inch sensor showed no change from the precipitation.

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:

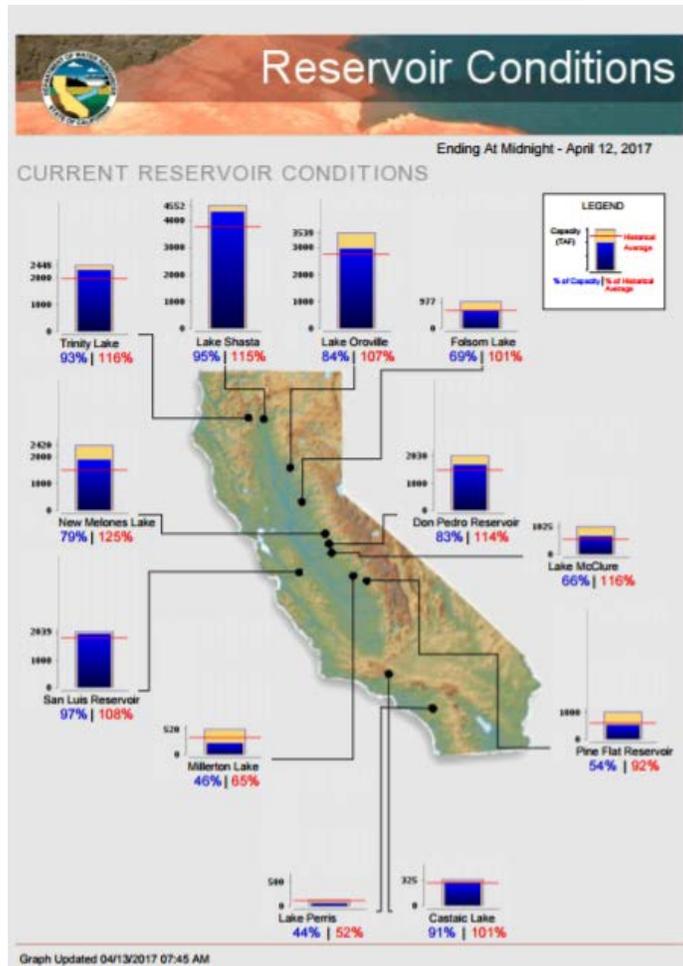
[Upper Colorado](#)

[Pacific Northwest/Snake/Columbia](#)

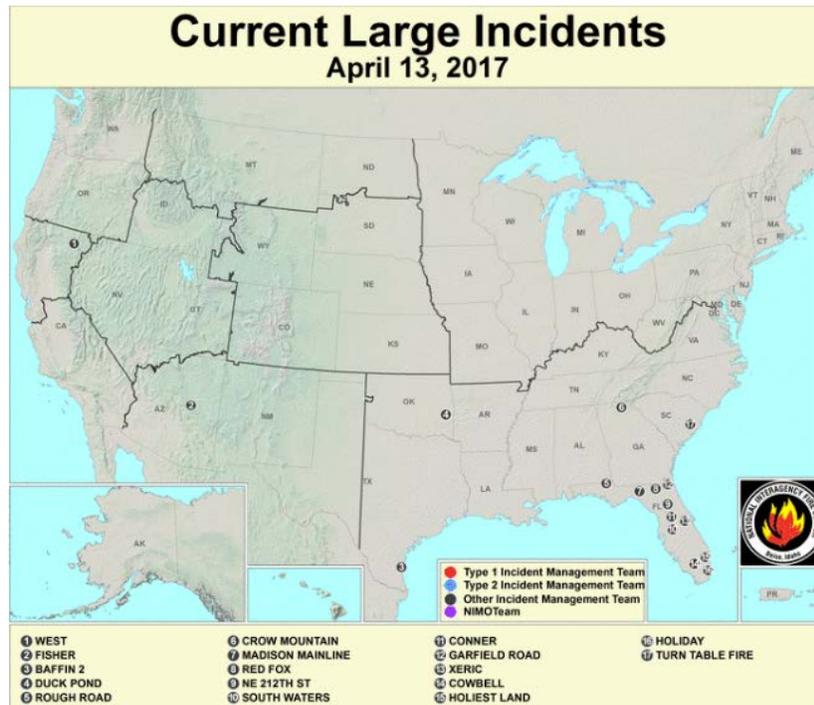
[Sevier River Water, Utah](#)

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

### [California Current Reservoir Conditions](#)



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



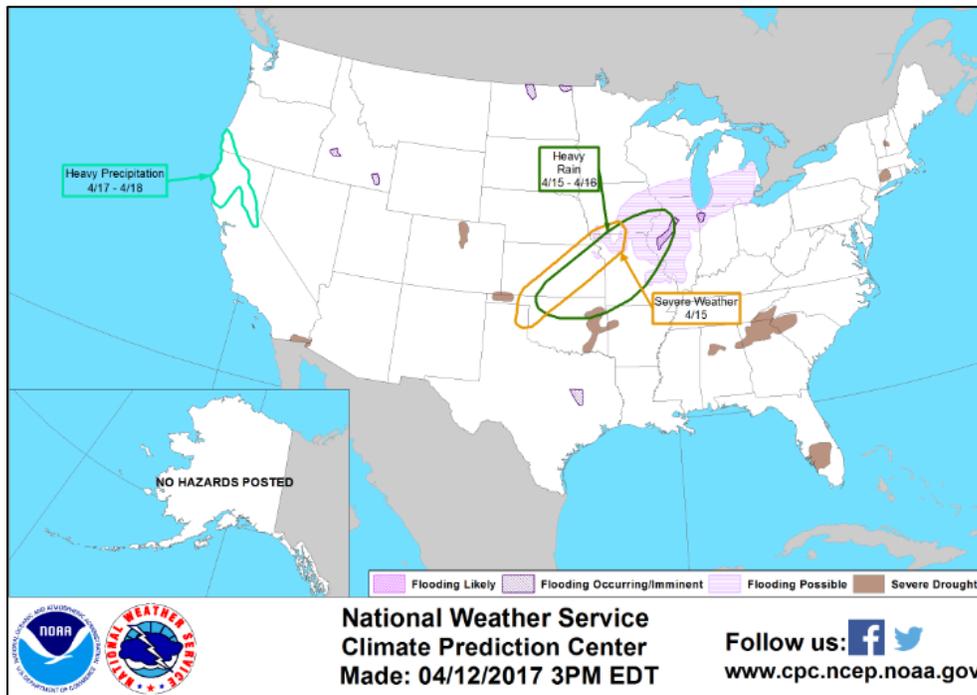
## Short- and Long-Range Outlooks

### Agricultural Weather Highlights

Author: Eric Luebehusen, Agricultural Meteorologist, USDA/OCE/WAOB

[National Outlook, April 13, 2017](#): “Cool weather will persist in California and the Northwest during the next 5 days. Northwestern showers, including late-season, high-elevation snow, will briefly subside during the weekend, only to return early next week. Meanwhile, a low-pressure system will traverse the U.S.-Canadian border, reaching the Great Lakes region during the weekend and northern New England early next week. Five-day precipitation totals could reach 1 to 3 inches in northern California and the Northwest, and 1 to 2 inches from the Great Lakes region to northern New England. Showers and thunderstorms along the low-pressure system’s trailing cold front could result in 1- to 3-inch rainfall totals from the southern Plains into the Midwest. In contrast, mostly dry weather will prevail into next week across the Southwest and the lower Southeast, including Florida. The NWS 6- to 10-day outlook for April 18 – 22 calls for the likelihood of warmer-than-normal weather across much of the southern two-thirds of the U.S., while below normal temperatures will be confined to the nation’s northern tier. Meanwhile, wetter-than-normal conditions across roughly the northern half of the nation will contrast with near- to below-normal rainfall across the South.”

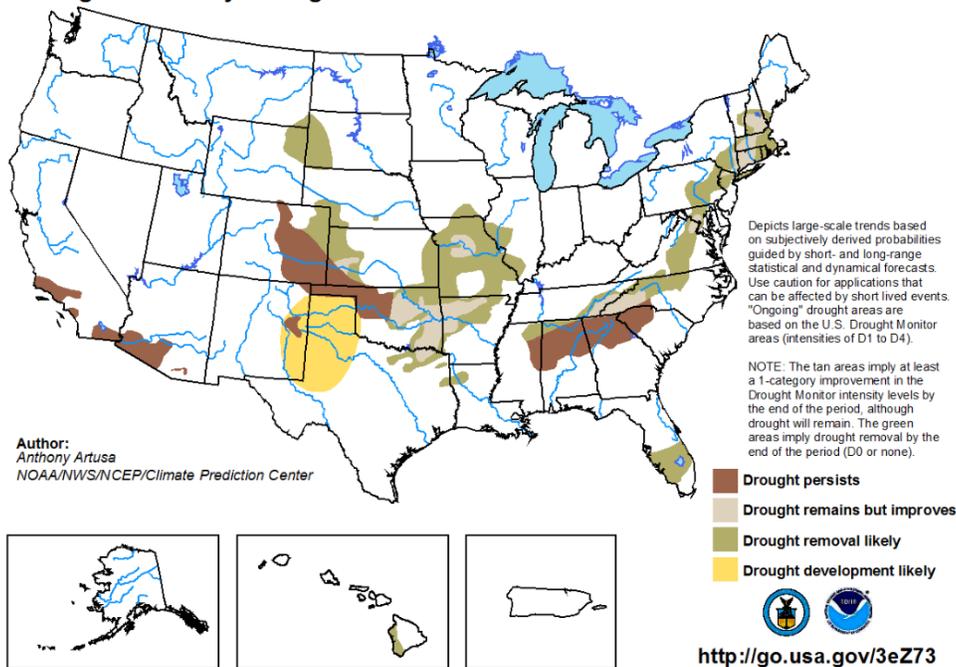
NWS Climate Prediction Center Weather Hazard Outlook: [April 15 – 19, 2017](#)



NWS Seasonal Drought Outlook: [March 16 - June 30, 2017](#)

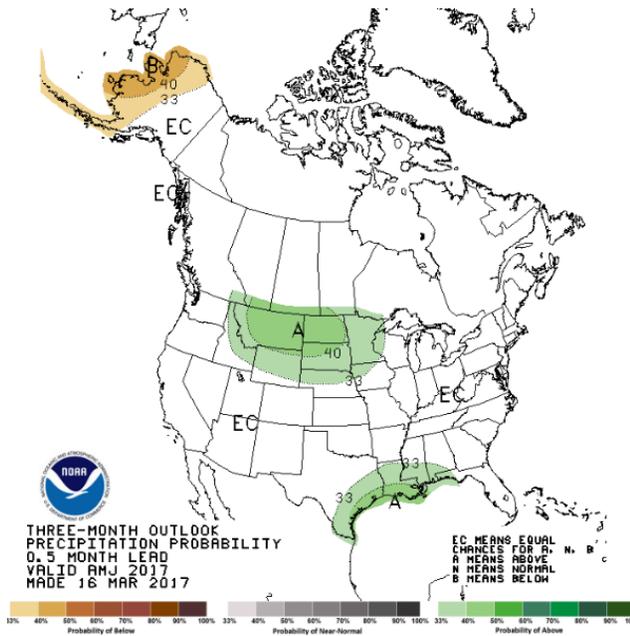
**U.S. Seasonal Drought Outlook**  
Drought Tendency During the Valid Period

Valid for March 16 - June 30, 2017  
Released March 16, 2017

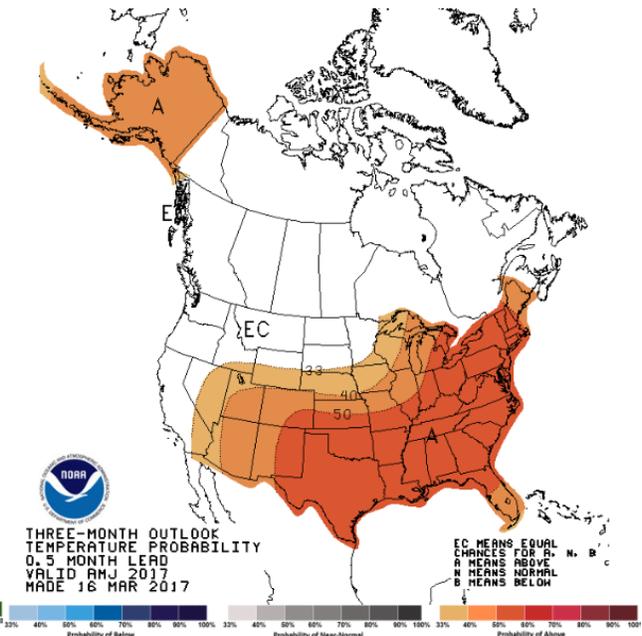


NWS Climate Prediction Center 3-Month Outlook

[Precipitation](#)



[Temperature](#)



[April-May-June \(AMJ\) 2017 precipitation outlook summary](#)

[April-May-June \(AMJ\) 2017 temperature outlook summary](#)

**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](#).