

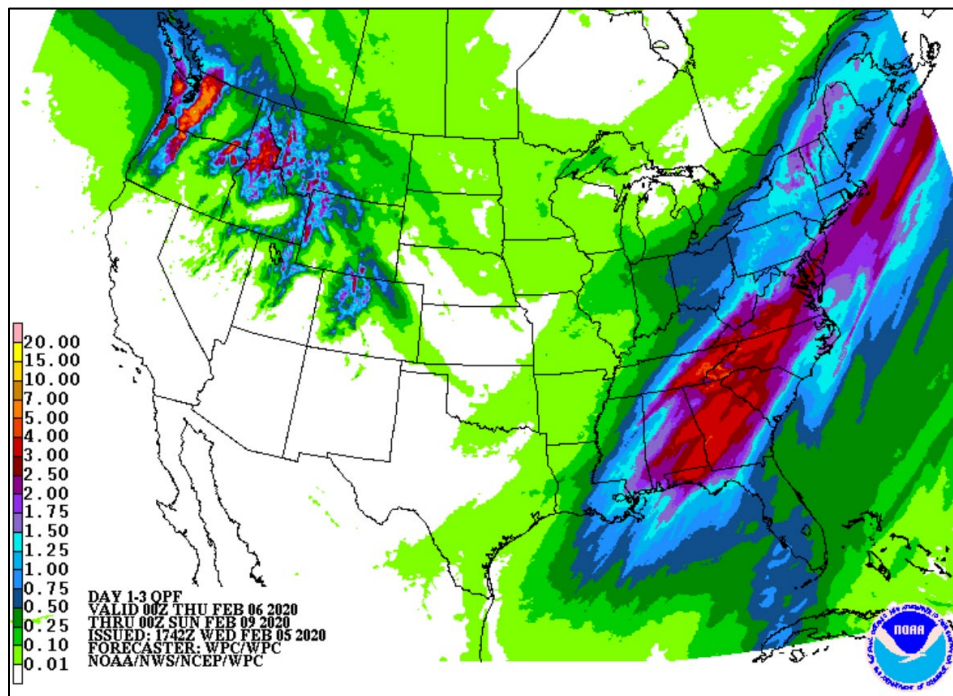
# Water and Climate Update

February 6, 2020

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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Precipitation .....	4	Short- and Long-Range Outlooks.....	17
Temperature.....	8	More Information .....	19
Drought .....	10		

## Severe storms across much of the eastern U.S.

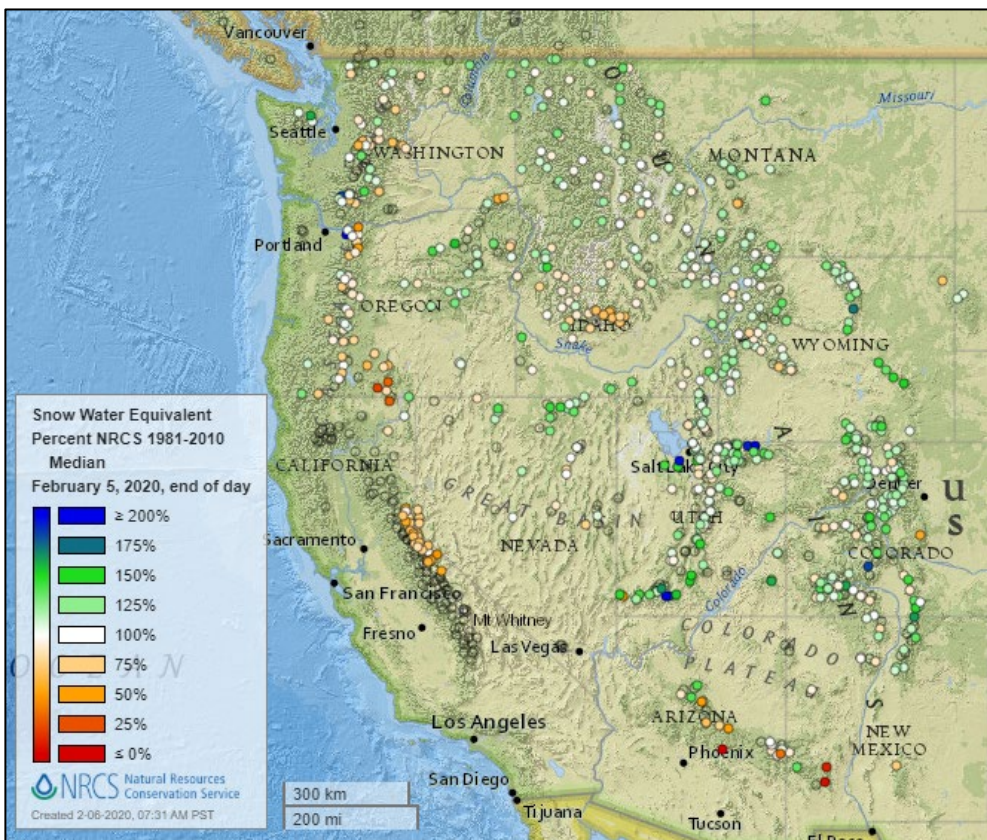


Severe storms over the past few days have continued to move eastward, affecting much of the south, southeast, and mid-Atlantic states. Heavy rain, severe thunderstorms, tornadoes, and wind impacted much of the South and Southeast. The National Weather Service is forecasting from one inch to over four inches of rain in next few days for the region. Flooding may impact these areas as well. Northern New York and New England are forecast to have from 6 to over 24 inches of snow.

**Related:**

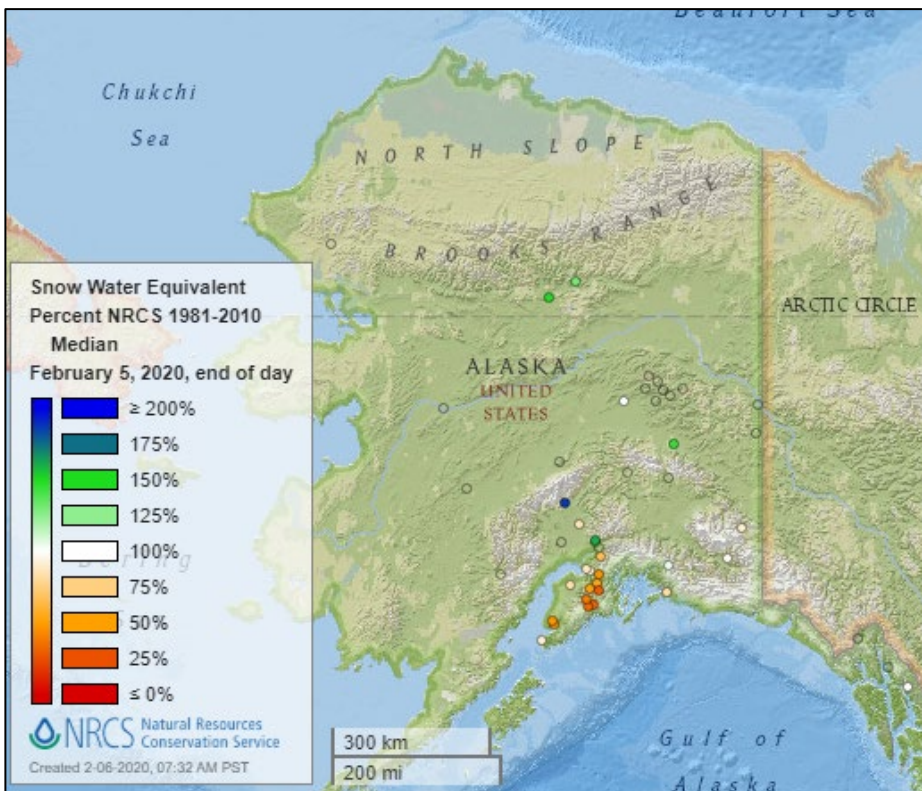
- [Sleet, snow, and severe storms to impact millions from Texas to Maine](#) – St. Louis Post-Dispatch (MO)
- [Winter weather alerts stretch over 2,300 miles from New Mexico to Maine](#) – WRAL (NC)
- [Powerful Eastern U.S. storm unleashing tornadoes and flooding rains in Southeast, while heavy snow will plaster interior New England](#) – Washington Post
- [Tornadoes, hail, flash flooding hit Mississippi](#) – The Clarion-Ledger on MSN ( MS)
- [Severe weather and flooding continues for parts of Alabama; two tornado watches in effect](#) – al.com (AL)
- [Severe storms hit the South, causing 1 death; up to 20 inches of snow threatens the Northeast](#) – USA Today

# Snow



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

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

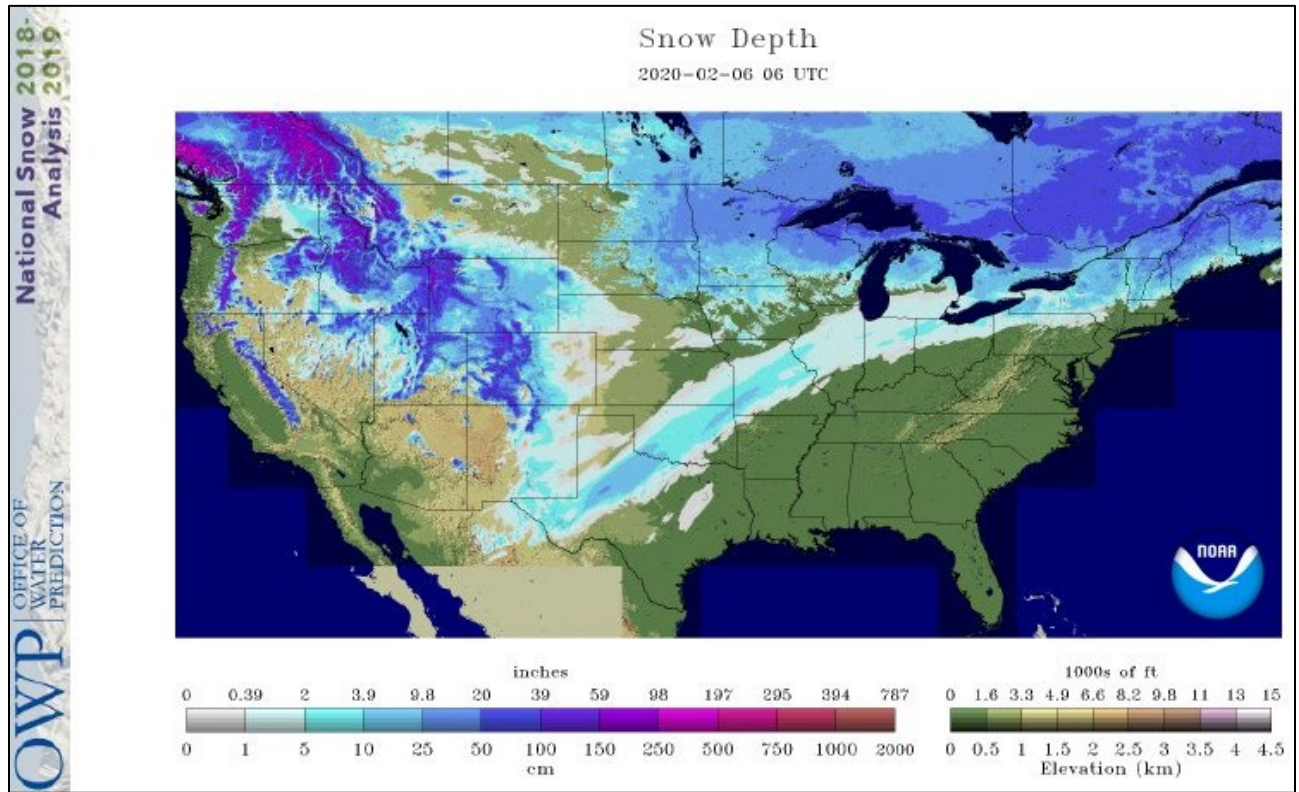


[Alaska snow water equivalent percent of median map](#)

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

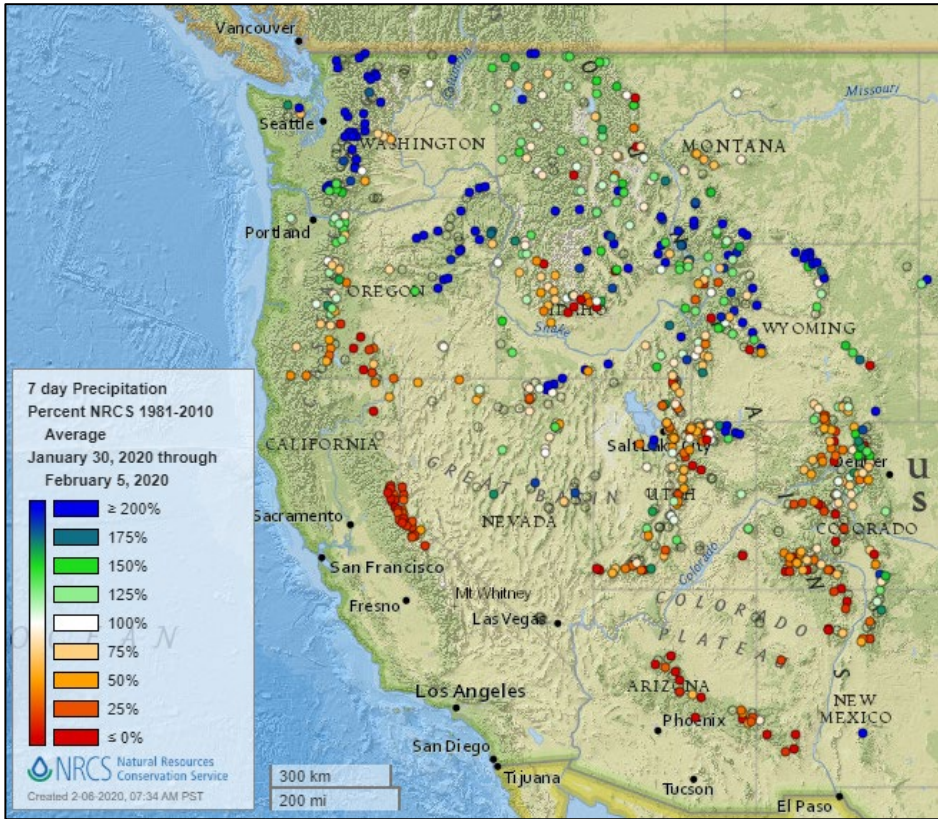
**Current Snow Depth, National Weather Service Snow Analysis**

Source: NOAA Office of Water Prediction



# Precipitation

## Last 7 Days, NRCS SNOTEL Network

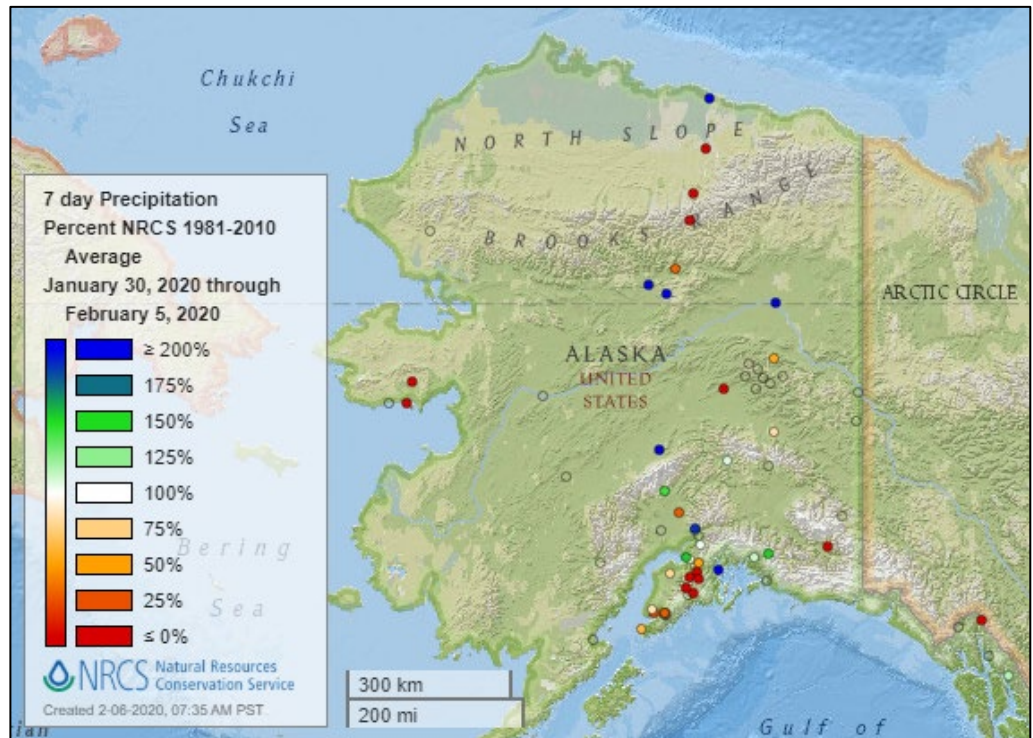


[7-day precipitation percent of average map](#)

**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](#)



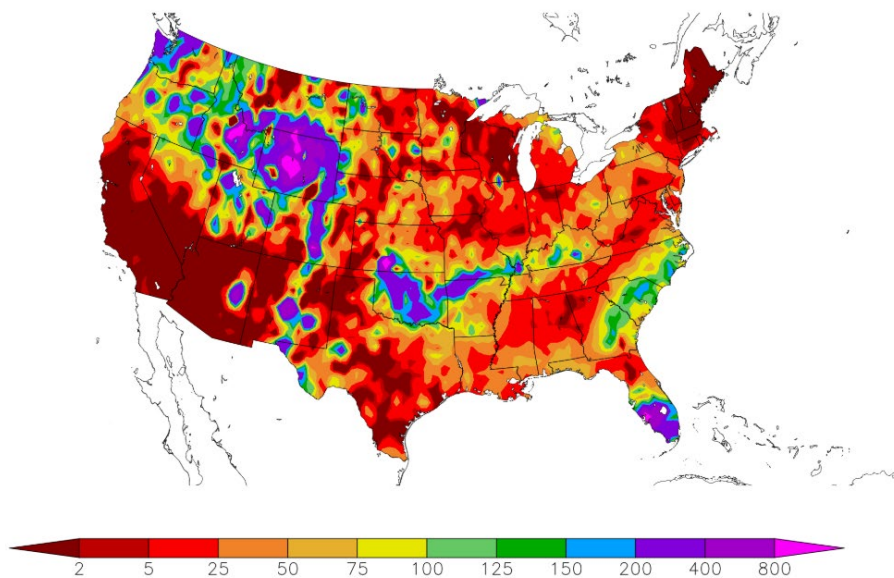
**Last 7 Days, National Weather Service (NWS) Networks**

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 (%)  
1/29/2020 – 2/4/2020



Generated 2/5/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

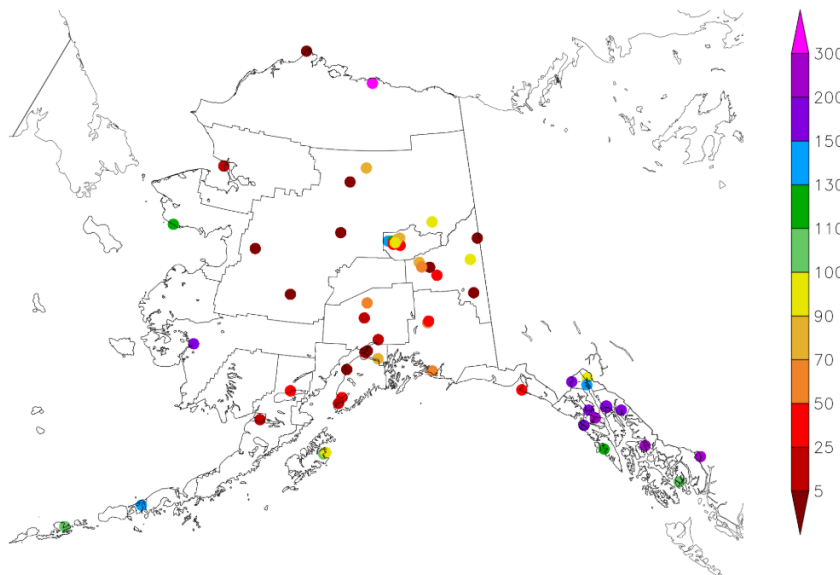
**Last 7 Days, National Weather Service (NWS) Networks**

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)  
1/29/2020 – 2/4/2020



Generated 2/5/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

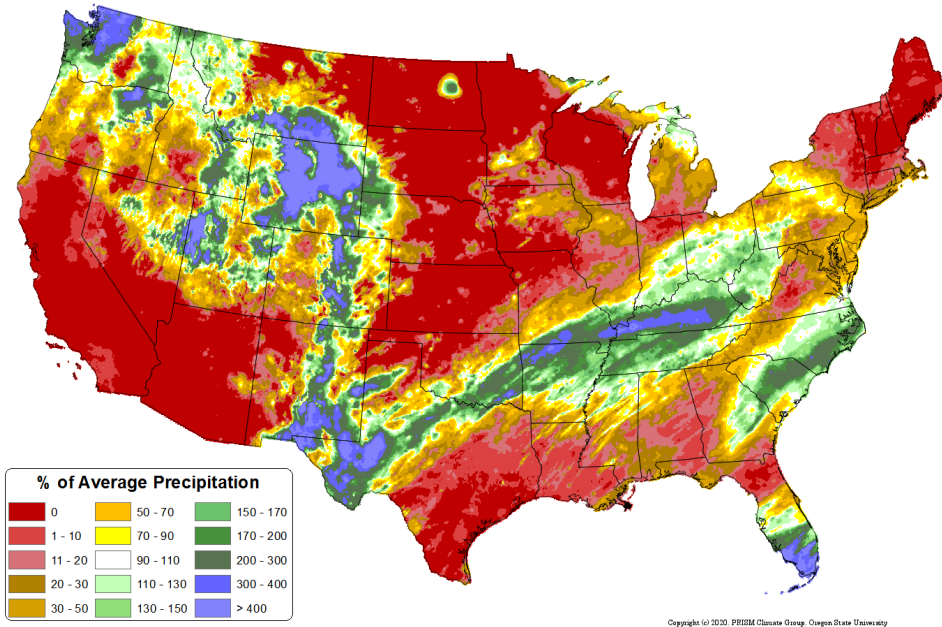
# Water and Climate Update

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

Source: PRISM

Total Precipitation Anomaly: 01 Feb 2020 - 05 Feb 2020  
Period ending 7 AM EST 05 Feb 2020  
Base period: 1981-2010  
(Map created 06 Feb 2020)

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

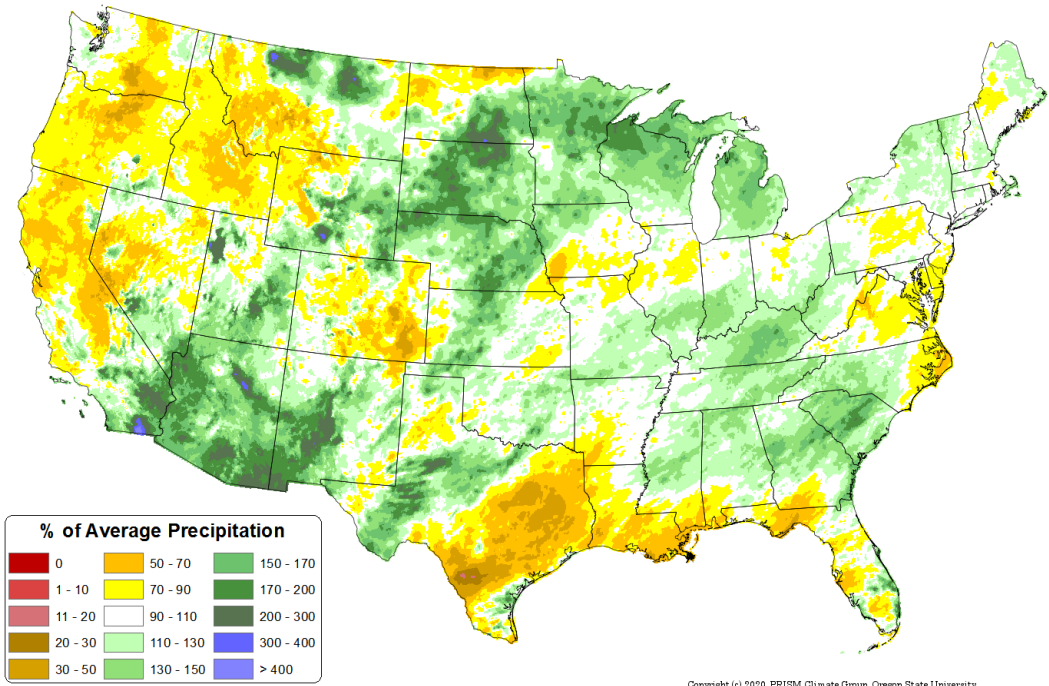


## Last 3 Months, All Available Data Including SNOTEL and NWS Networks

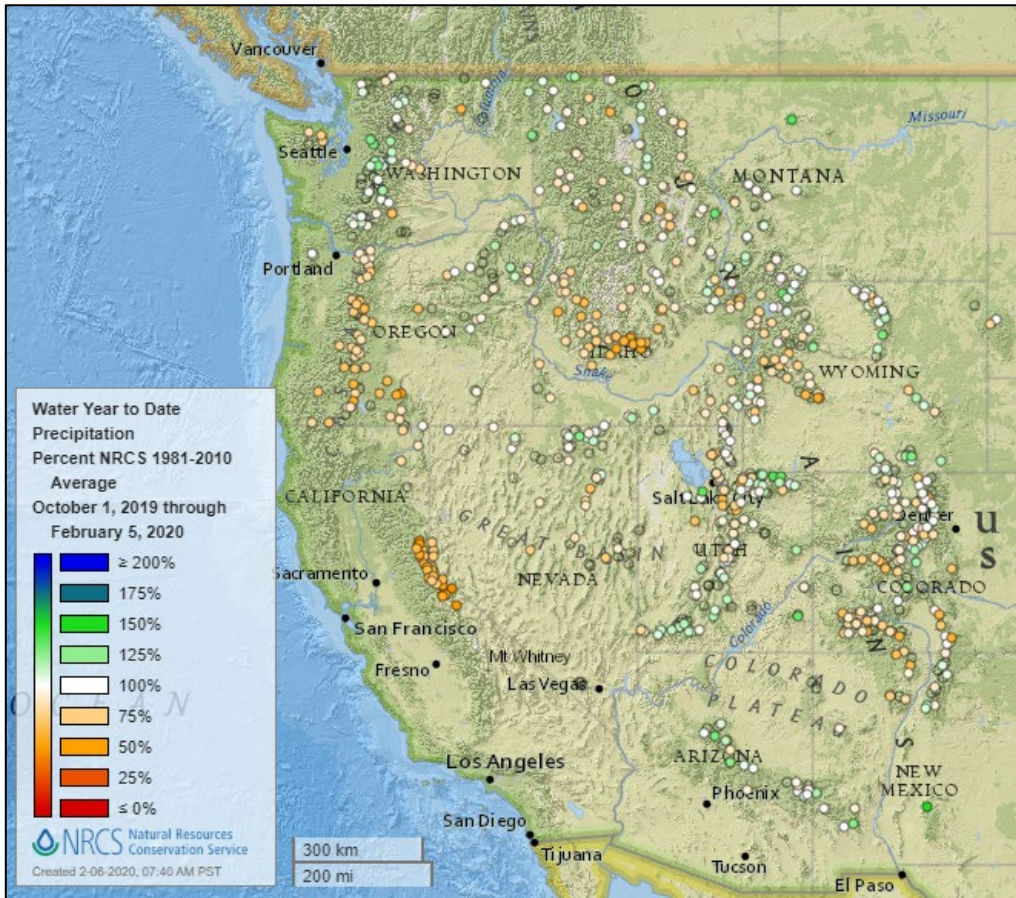
Source: PRISM

[November 2019 through January 2020 total precipitation percent of average map](#)

Total Precipitation Anomaly: Nov 2019 - Jan 2020  
Period ending 7 AM EST 31 Jan 2020  
Base period: 1981-2010  
(Map created 03 Feb 2020)

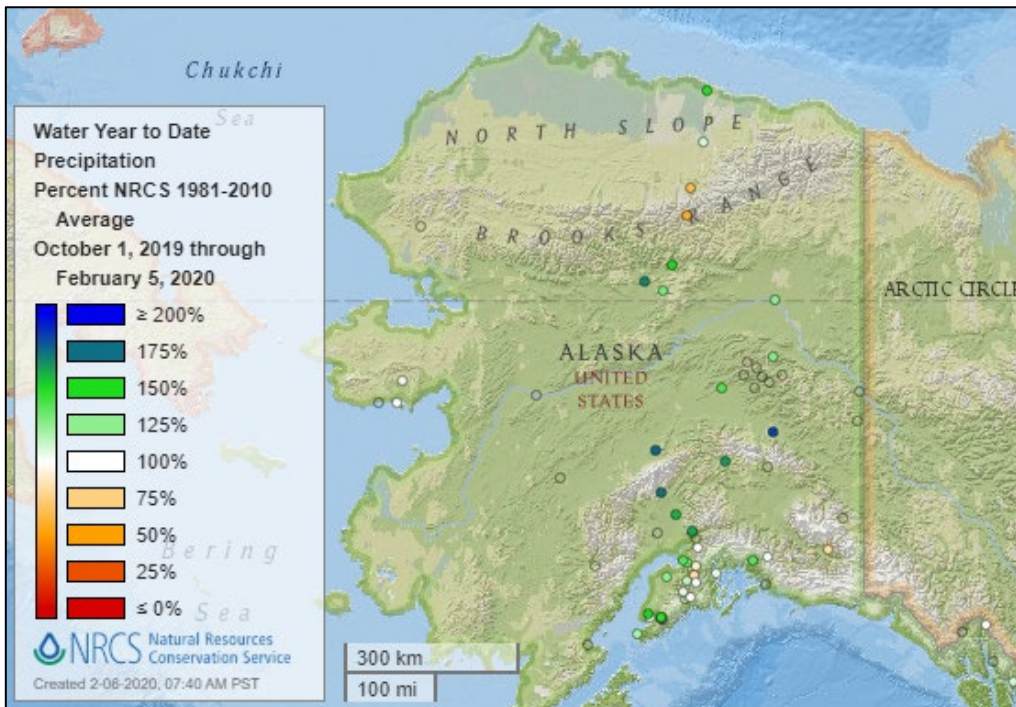


Water Year-to-Date, NRCS SNOTEL Network



[2020 water year-to-date precipitation percent of average map](#)

**See also:**  
[2020 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2020 water year-to-date precipitation percent of average map](#)

**See also:**  
[Alaska 2020 water year-to-date precipitation values \(inches\) map](#)

## Temperature

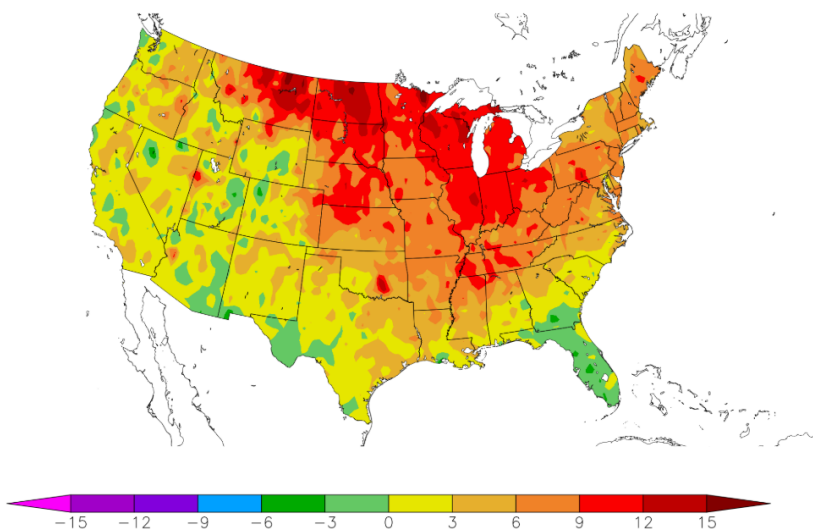
### Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the contiguous U.S.

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

Departure from Normal Temperature (F)  
1/29/2020 – 2/4/2020



Generated 2/5/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

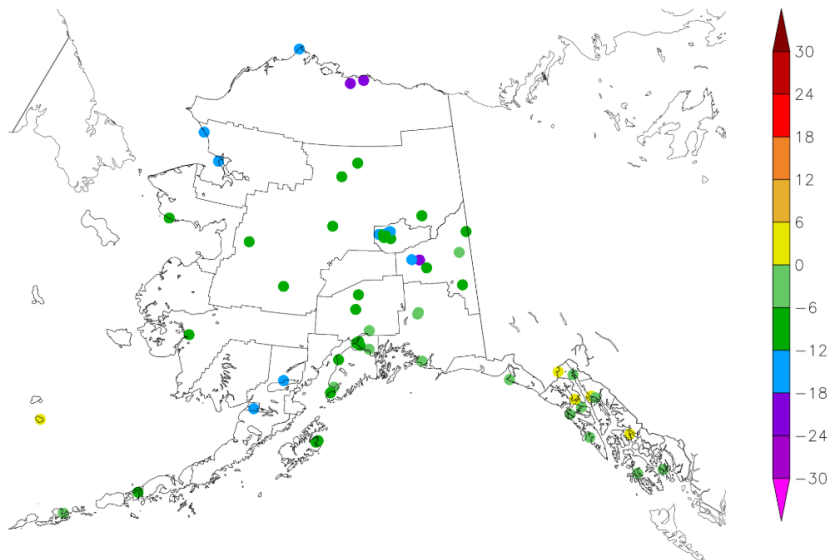
### Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)  
1/29/2020 – 2/4/2020



Generated 2/5/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

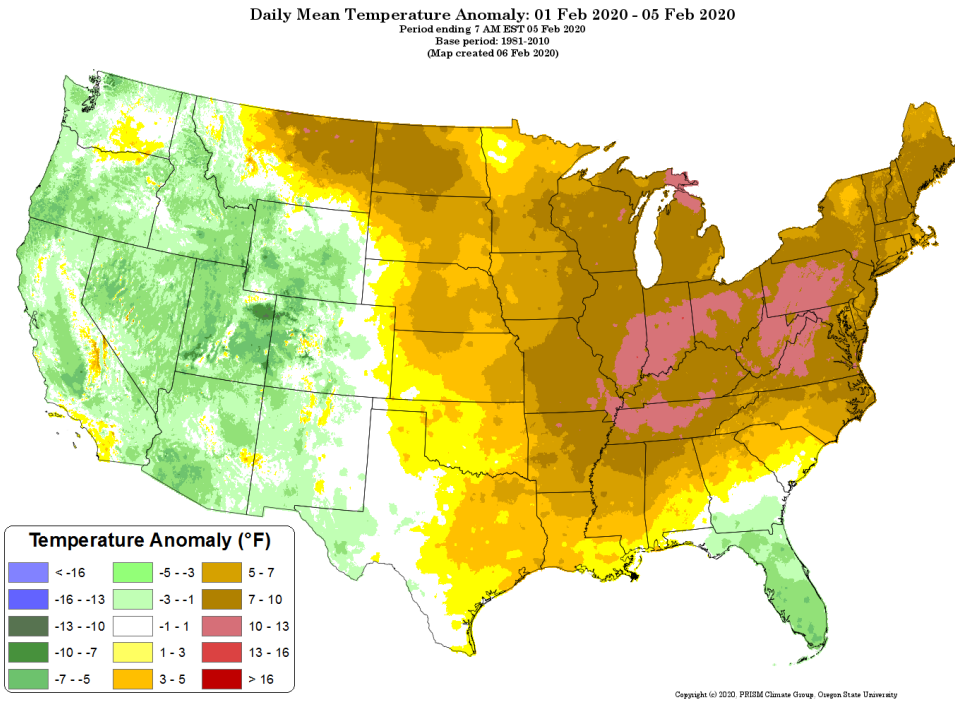


# Water and Climate Update

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

Source: PRISM

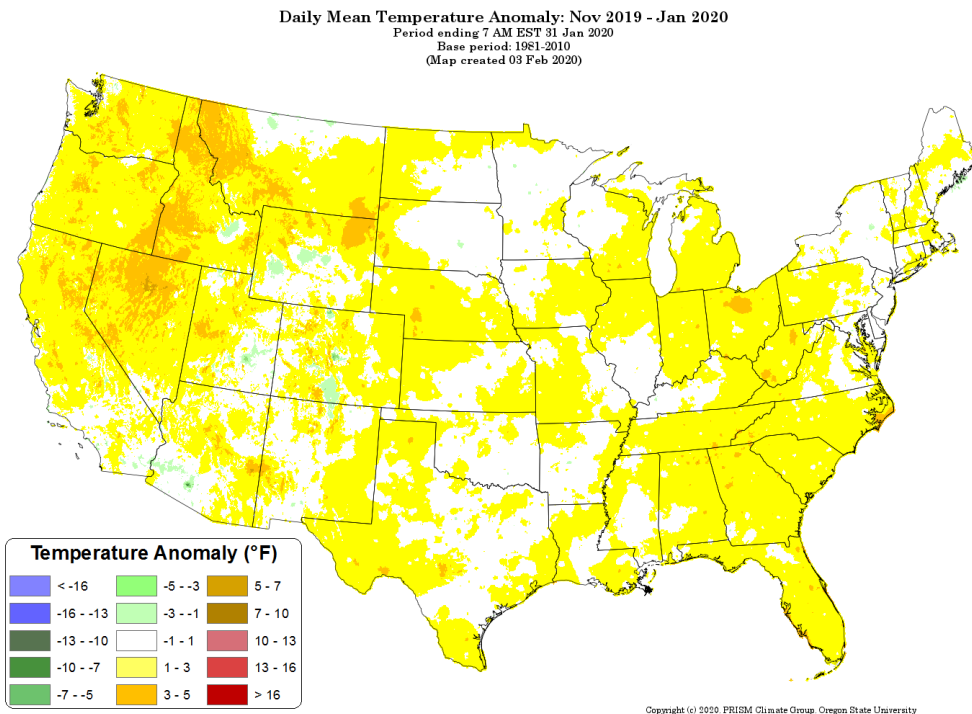
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[November 2019 through January 2020 daily mean temperature anomaly map](#)



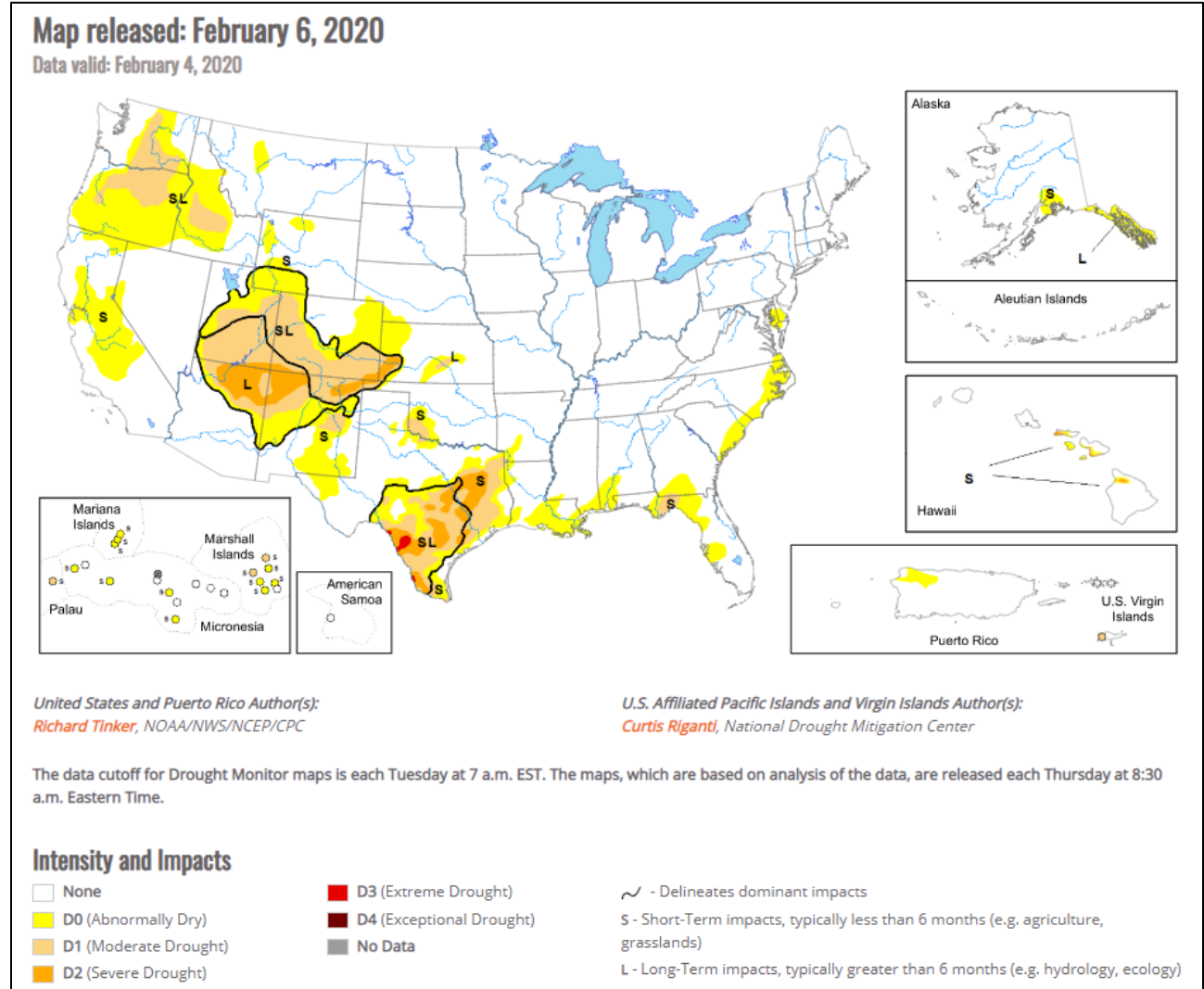
# Drought

## [U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

## [U.S. Drought Portal](#)

Source: NOAA



## Current [National Drought Summary](#), February 6, 2020

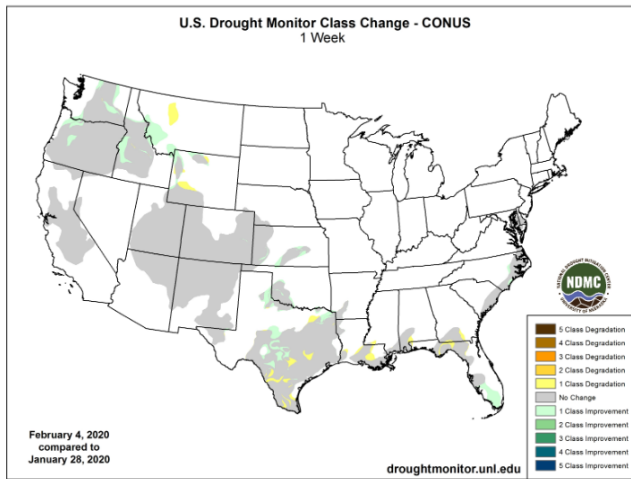
Source: National Drought Mitigation Center

“Most areas of dryness and drought received little precipitation this past week. Where there was significant precipitation, some improvement was noted, particularly in the Northwest where surplus precipitation fell during the previous 3 to 4 weeks. Moderate to heavy rains also brought improvement to southern Florida and patches of eastern North Carolina. Meanwhile, precipitation was patchy from the central Gulf Coast across eastern Texas to the Red River Valley (south), bringing a mixed bag of improvements and deterioration there. But across the dry regions in California, the Four Corners States, central and southern Texas, and northern Florida, only a few tenths of an inch of precipitation was recorded at best. Some areas of deterioration were noted in these areas, but most areas remained unchanged from last week.”

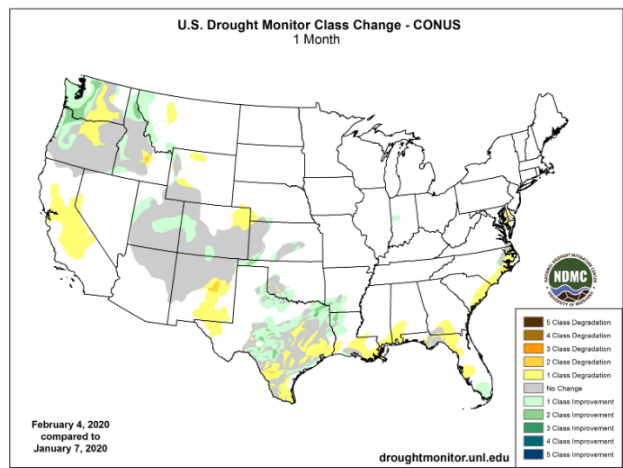
## Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

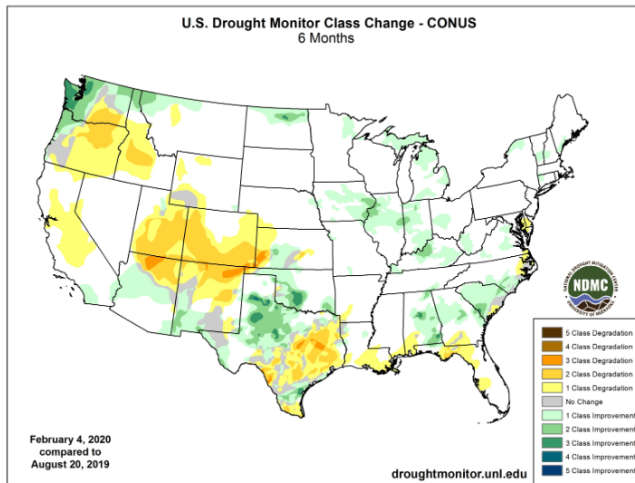
### 1 Week



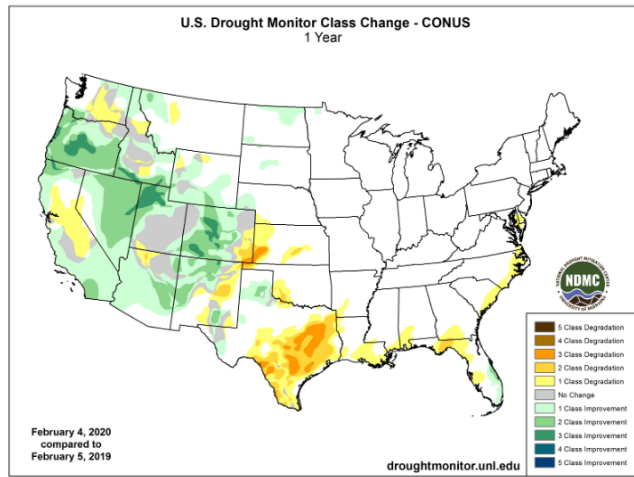
### 1 Month



### 6 Months



### 1 Year



[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

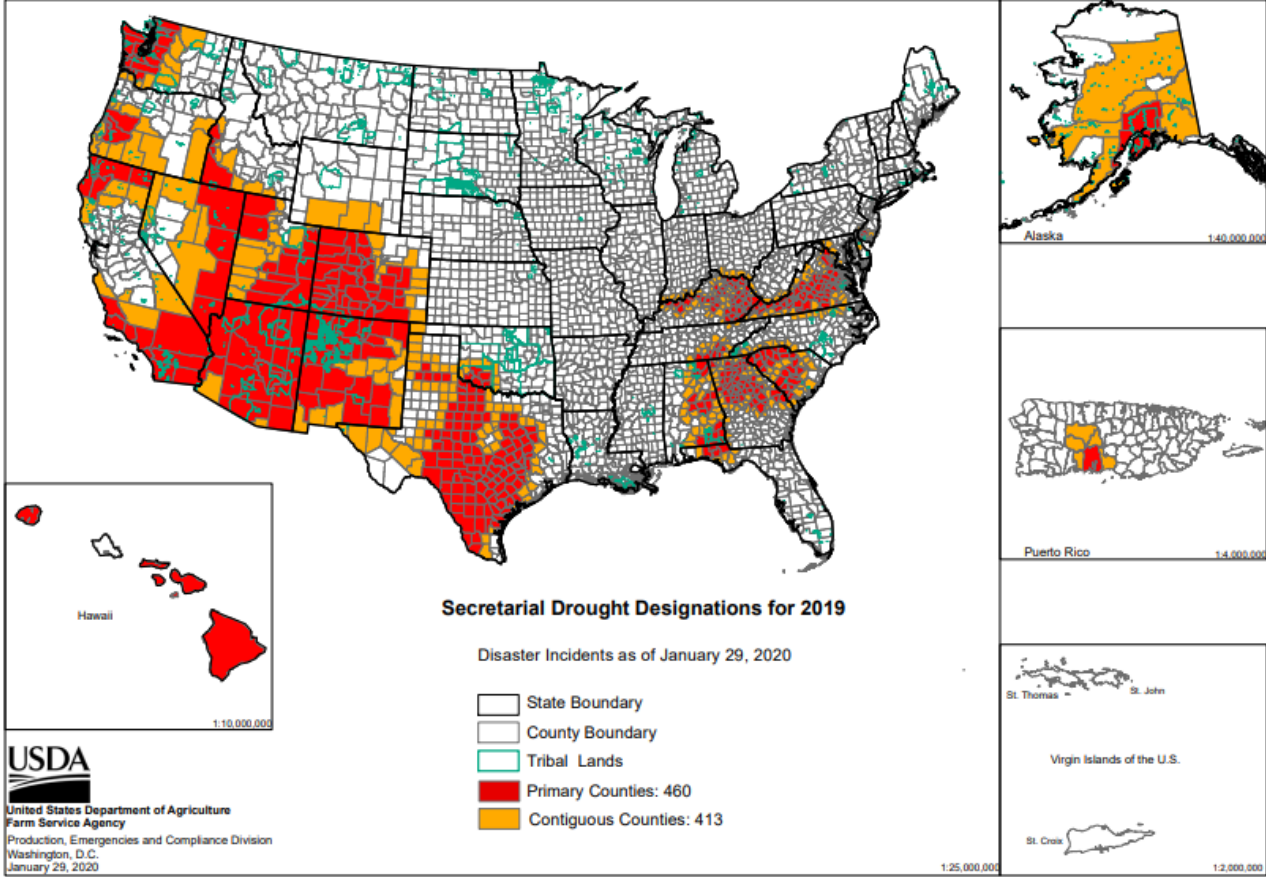
## Highlighted Drought Resources

- [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](#)

**Secretarial Drought Designations**

Source: USDA Farm Service Agency

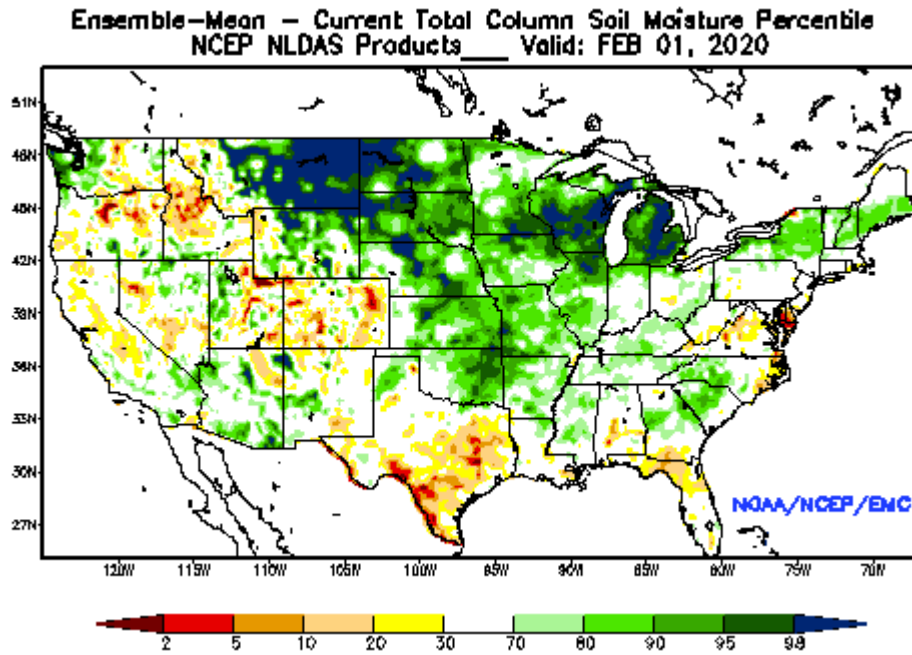
**2019 Secretarial Drought Designations - All Drought**



## Other Climatic and Water Supply Indicators

### Soil Moisture

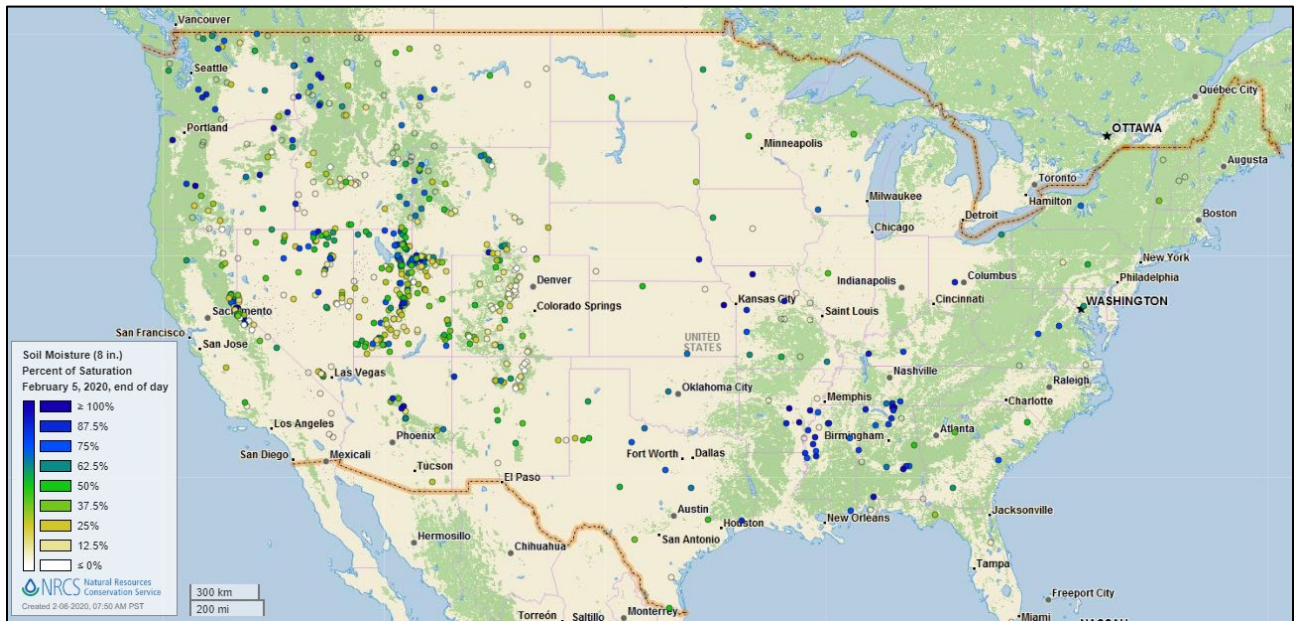
Source: NOAA National Centers for Environmental Prediction



[Modeled soil moisture percentiles](#) as of February 1, 2020

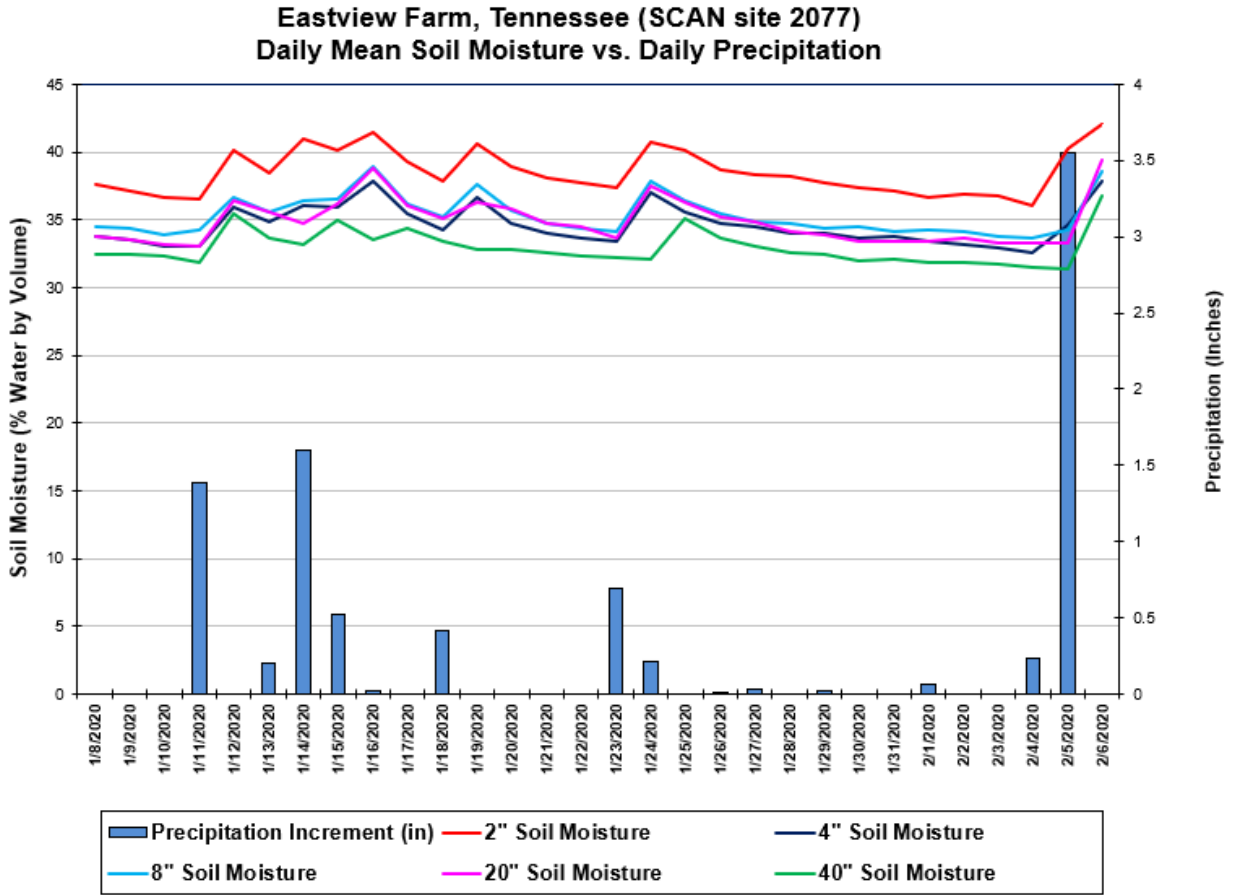
### Soil Moisture Percent of Saturation

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



**Soil Moisture Data**

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



This chart shows the soil moisture and precipitation at the [Eastview Farm](#) SCAN site in Tennessee. This site has experienced several precipitation events in the last 30 days, resulting in increased soil moisture at all five sensor depths. Accumulated precipitation for the period totaled 8.97 inches.

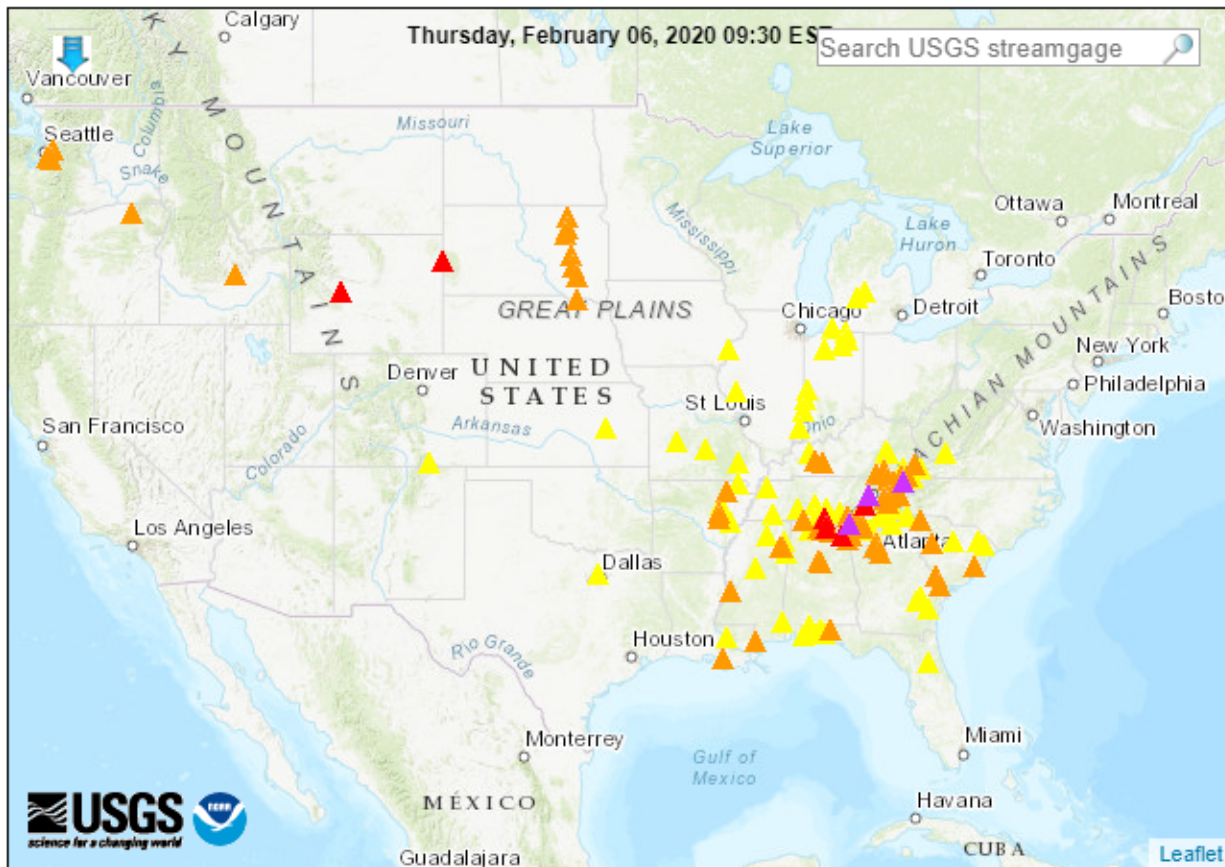
**Soil Moisture Data Portals**

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

**Streamflow, Drought, Flood, and Runoff**

Source: U.S. Geological Survey

**Map of flood and high flow conditions**  
 (65 in floods [major: 3, moderate: 6, minor: 56], 64 in near-flood)



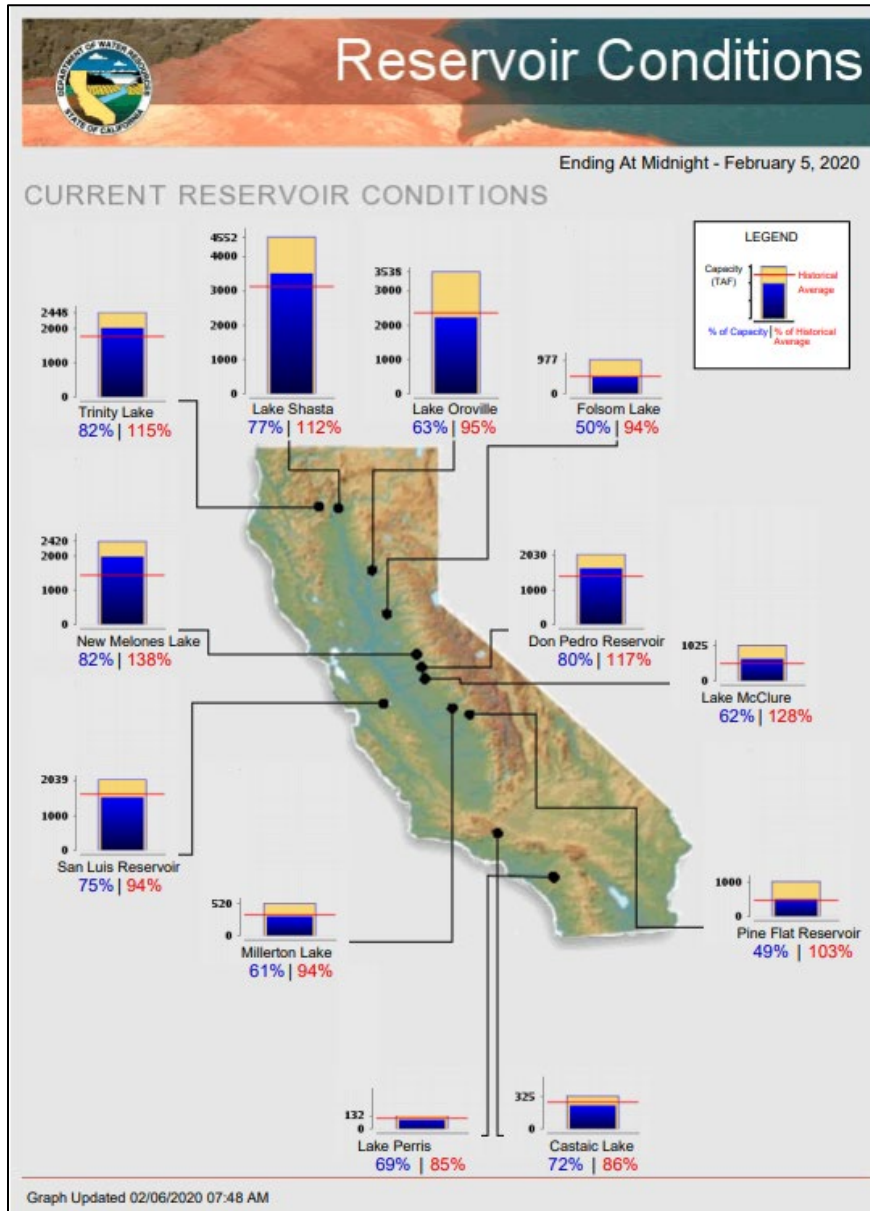
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
▲ Streamgage with flood stage			○ Streamgage without flood stage			

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

## Reservoir Storage

### Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

### Hydromet Teacup Reservoir Depictions

Source: U.S. Bureau of Reclamation

- [Upper Colorado](#)
- [Pacific Northwest/Snake/Columbia](#)
- [Sevier River Water, Utah](#)
- [Upper Missouri, Kansas, Oklahoma, Texas](#)



## Short- and Long-Range Outlooks

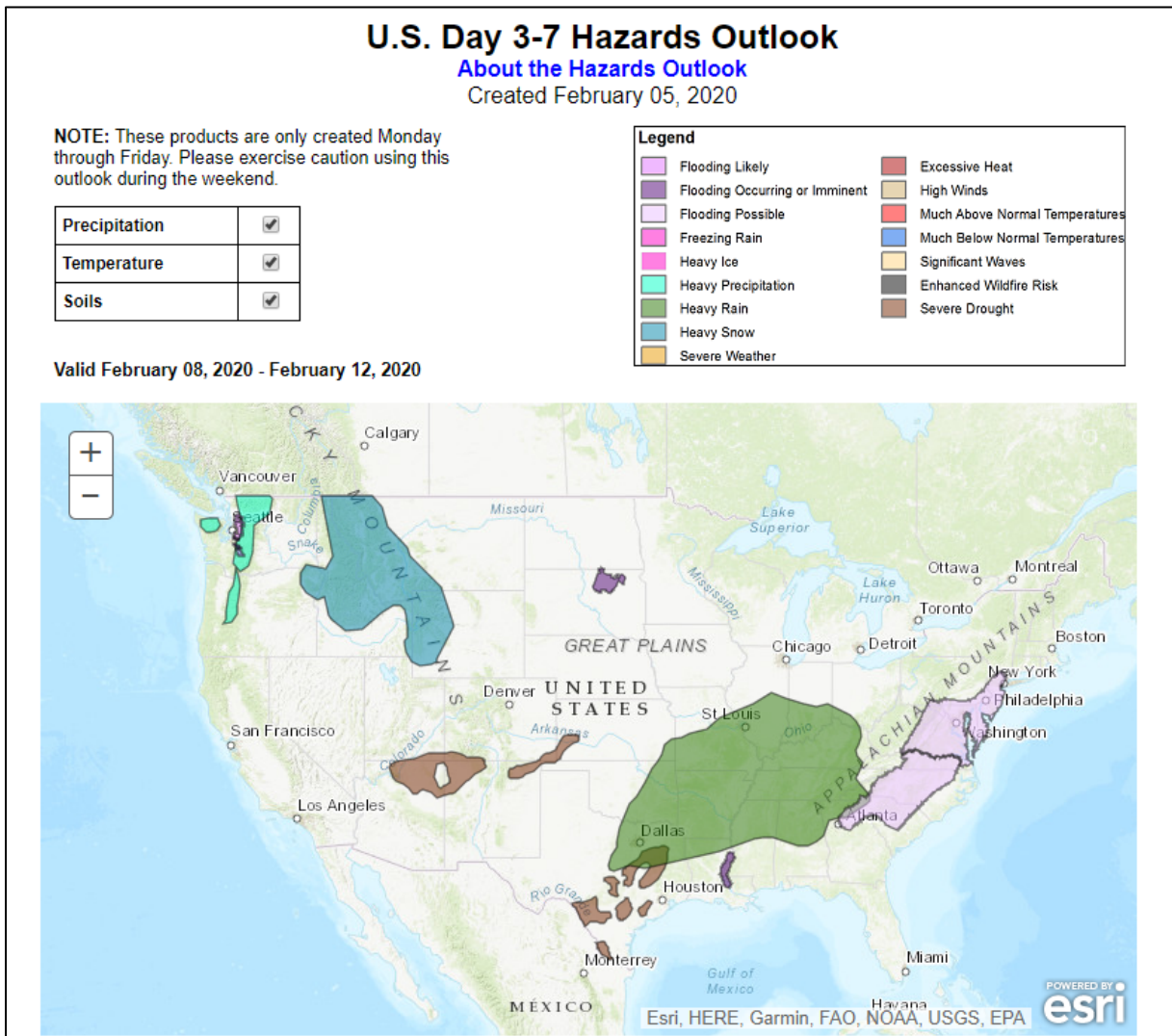
### Agricultural Weather Highlights

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

**National Outlook, Thursday, February 6, 2020:** “A storm system currently centered over the southern Appalachians will move northeasterward and further intensify, reaching coastal New England by late Friday. Additional Eastern rainfall totals could reach 1 to 3 inches, while another round of severe thunderstorms will sweep toward the southern Atlantic Coast later today. Wintry precipitation will linger today in the eastern Corn Belt and continue through Friday across the interior Northeast. Meanwhile, Northwestern storminess will continue into the first half of the weekend before the storm track shifts southward. Parts of California and the Southwest may receive beneficial precipitation early next week. Elsewhere, weekend snow will blanket portions of the northern Plains and upper Midwest. The NWS 6- to 10-day outlook for February 11 – 15 calls for the likelihood of below-normal temperatures along and west of a line from western Texas to Lake Superior, while warmer-than-normal weather will prevail across the South, East, and lower Midwest. Meanwhile, below-normal precipitation in northern California and peninsular Florida should contrast with wetter-than-normal conditions across the remainder of the country.”

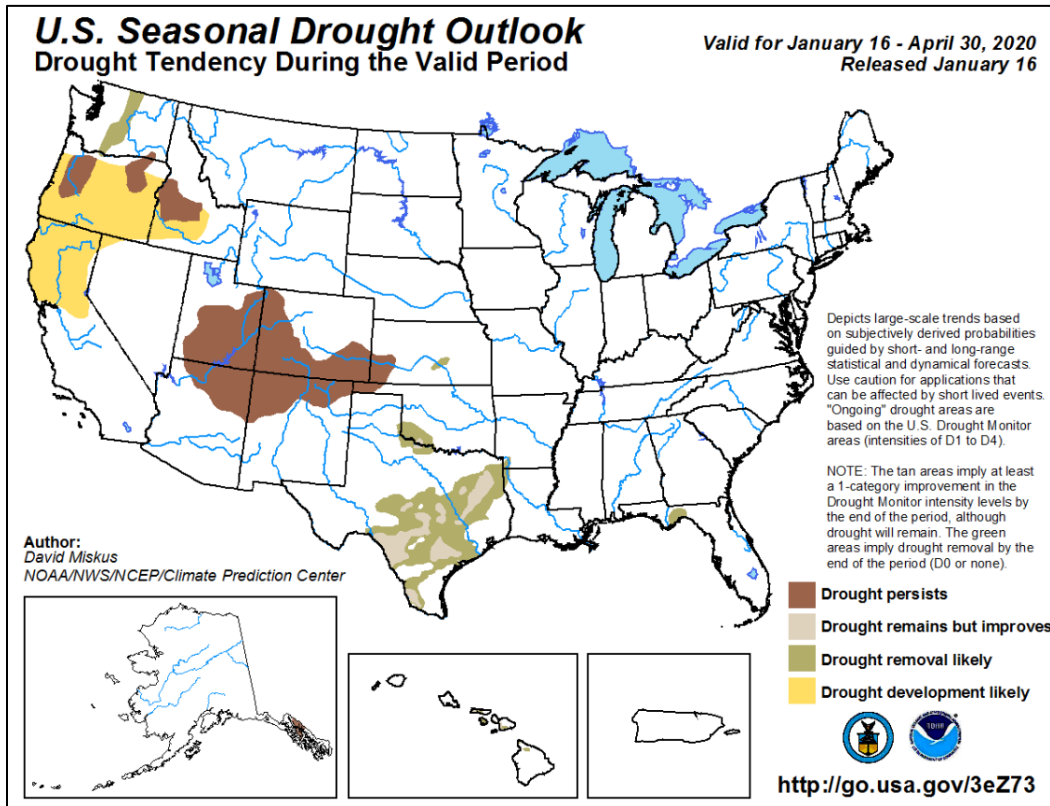
### Weather Hazards Outlook: [February 8 – 12, 2020](#)

Source: NOAA Climate Prediction Center



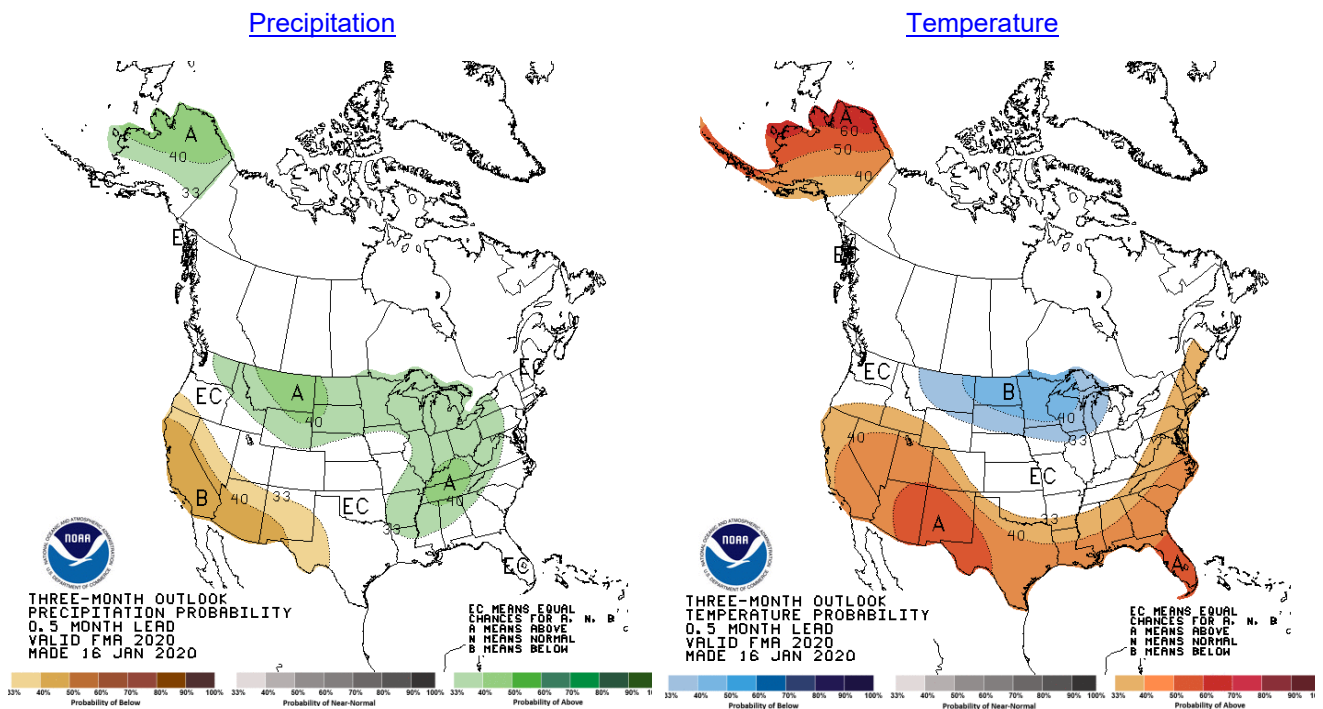
**Seasonal Drought Outlook: [January 16 – April 30, 2020](#)**

Source: National Weather Service



**Climate Prediction Center 3-Month Outlook**

Source: National Weather Service



[February-March-April \(FMA\) 2020 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](#).