



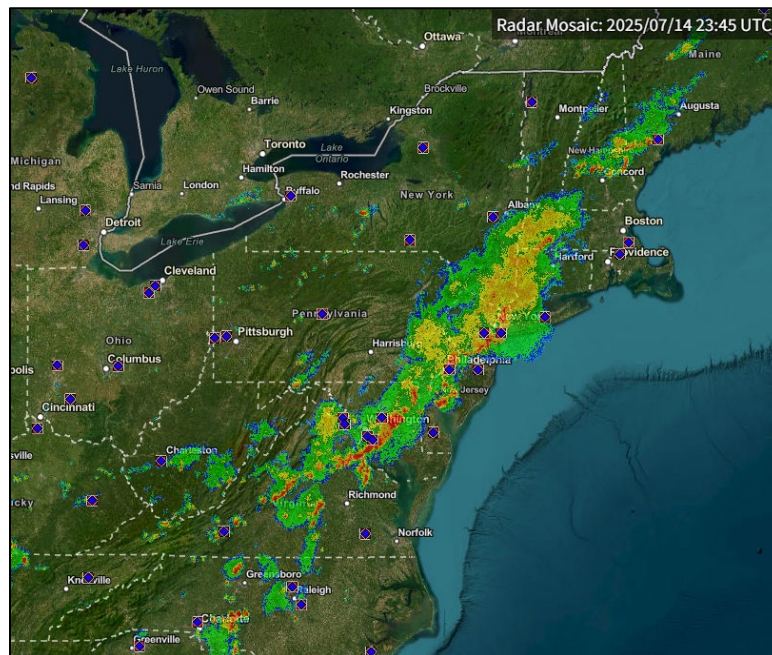
Water and Climate Update

July 17, 2025

The Natural Resources Conservation Service (NRCS) 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	2	Other Climatic and Water Supply Indicators	11
Temperature.....	6	More Information	17
Drought	8		

Torrential rainfall in the Northeast causes flash flooding



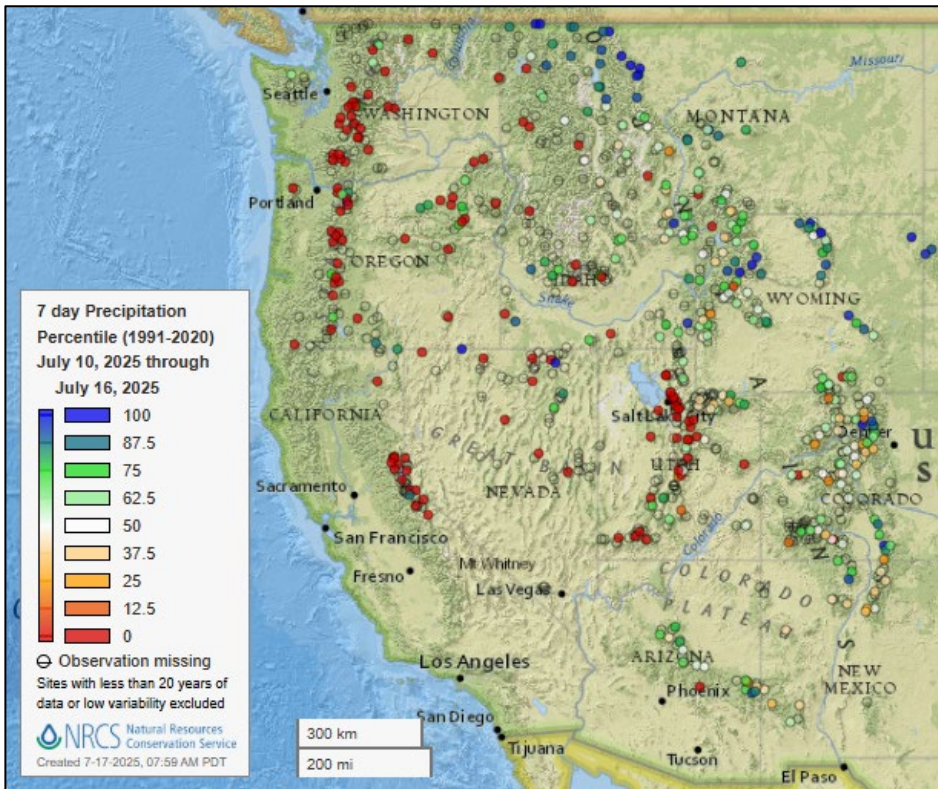
A slow-moving storm system dropped several inches of rain in parts of the Northeast on July 14, with the bulk of the precipitation falling in a three-hour window during the evening. The torrential downpours inundated roads and houses, prompting over two dozen water rescues. Officials reported some houses in the region being filled with several feet of water. The deluge also brought floodwaters to a New York City subway platform and train cars. Some of the highest observed precipitation totals were measured in Pennsylvania near Mt. Holly at over seven inches of rainfall. Catastrophic flooding also occurred in Texas earlier this month, and as of July 17, the National Weather Service has flash flood watches in effect for parts of the Southeast, Gulf Coast states, and New Mexico.

Related:

[More slow-moving storms move across a flood-weary East Coast. When will the rain end? – CNN](#)
[2 killed when car swept away in flash flooding in New Jersey, dozens rescued – ABC News](#)
[More rain, flooding expected in the Northeast as flash floods kill 2 in New Jersey – USA Today](#)
[Nearly every major river basin in South Central Texas has experienced flooding in July 2025 – KSAT \(San Antonio, TX\)](#)

Precipitation

Last 7 Days, NRCS SNOTEL Network



[7-day precipitation
percentile map](#)

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

[Alaska 7-day
precipitation
percentile map](#)

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



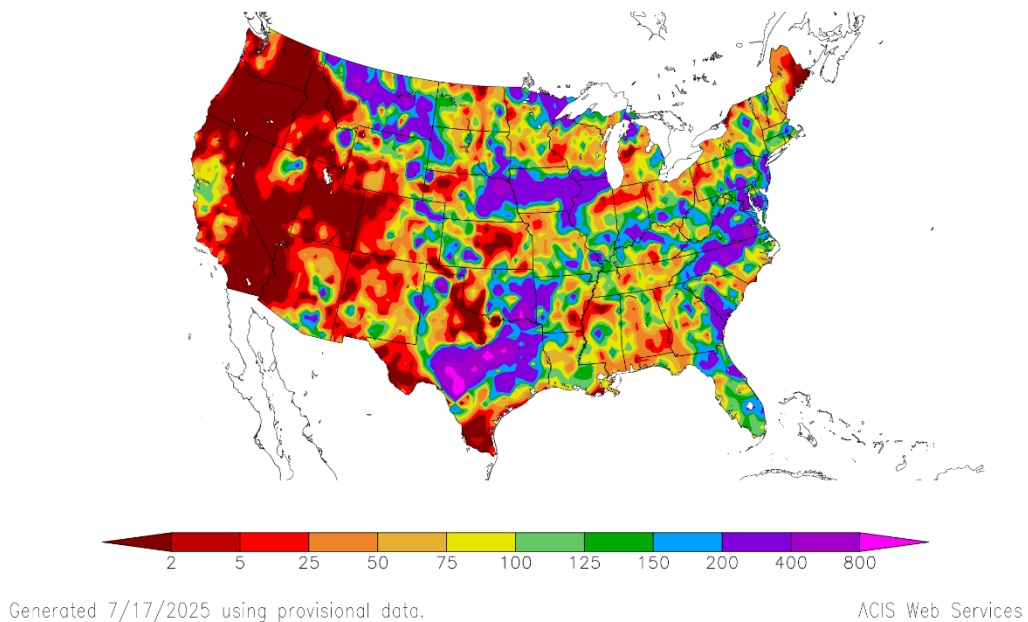
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
7/10/2025 – 7/16/2025



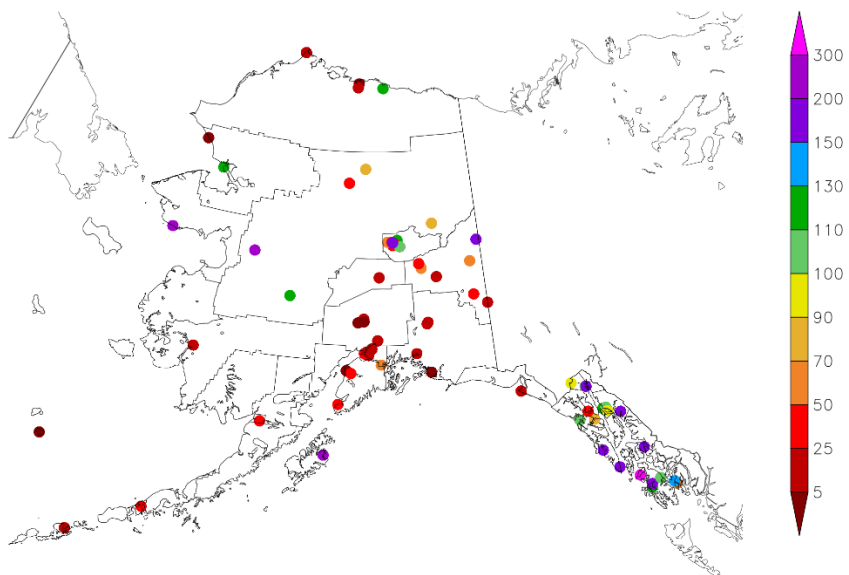
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation percent of normal map](#) for Alaska.

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

Percent of Normal Precipitation (%)
7/10/2025 – 7/16/2025



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

Source: PRISM

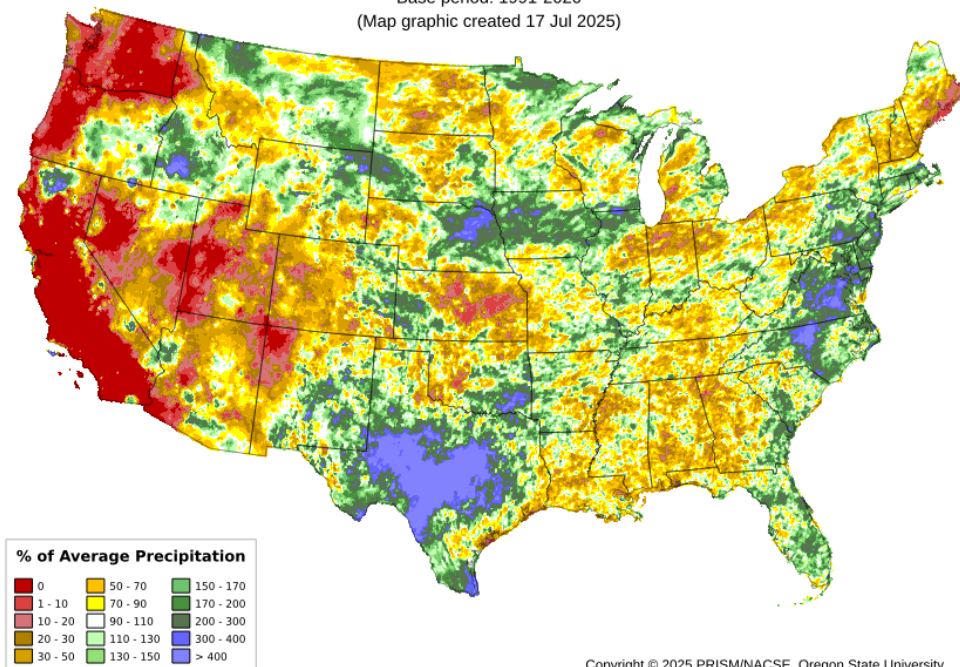
Total Precipitation Anomaly: 01 Jul 2025 - 16 Jul 2025

Period ending 7 AM EST 16 Jul 2025

Base period: 1991-2020

(Map graphic created 17 Jul 2025)

[Month-to-date national total precipitation anomaly map](#)



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

Source: PRISM

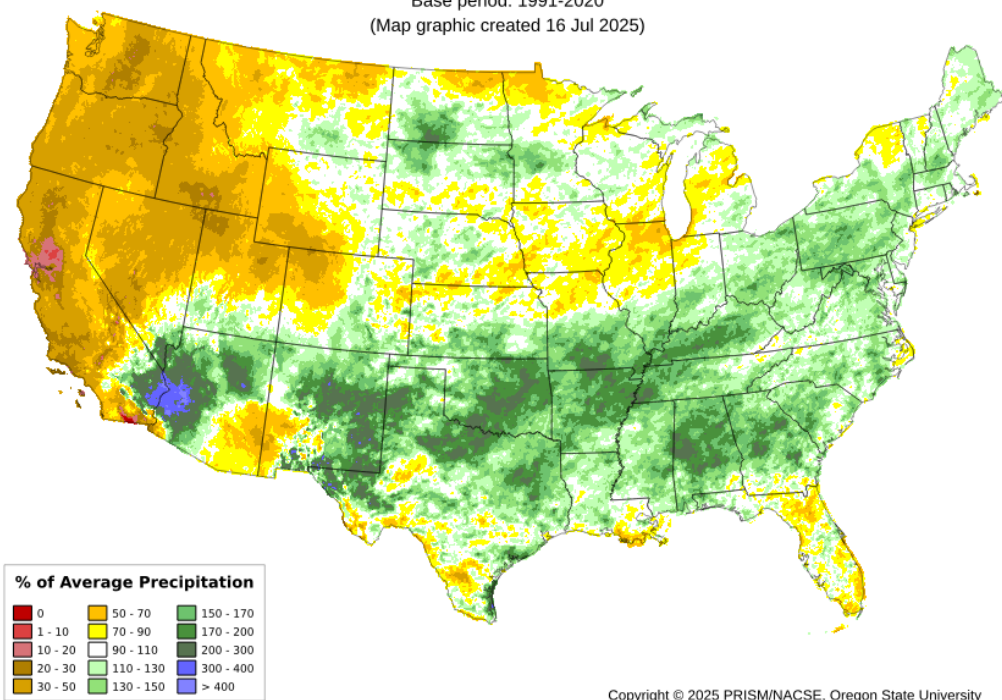
[April through June 2025 precipitation anomaly map](#)

Total Precipitation Anomaly: Apr 2025 - Jun 2025

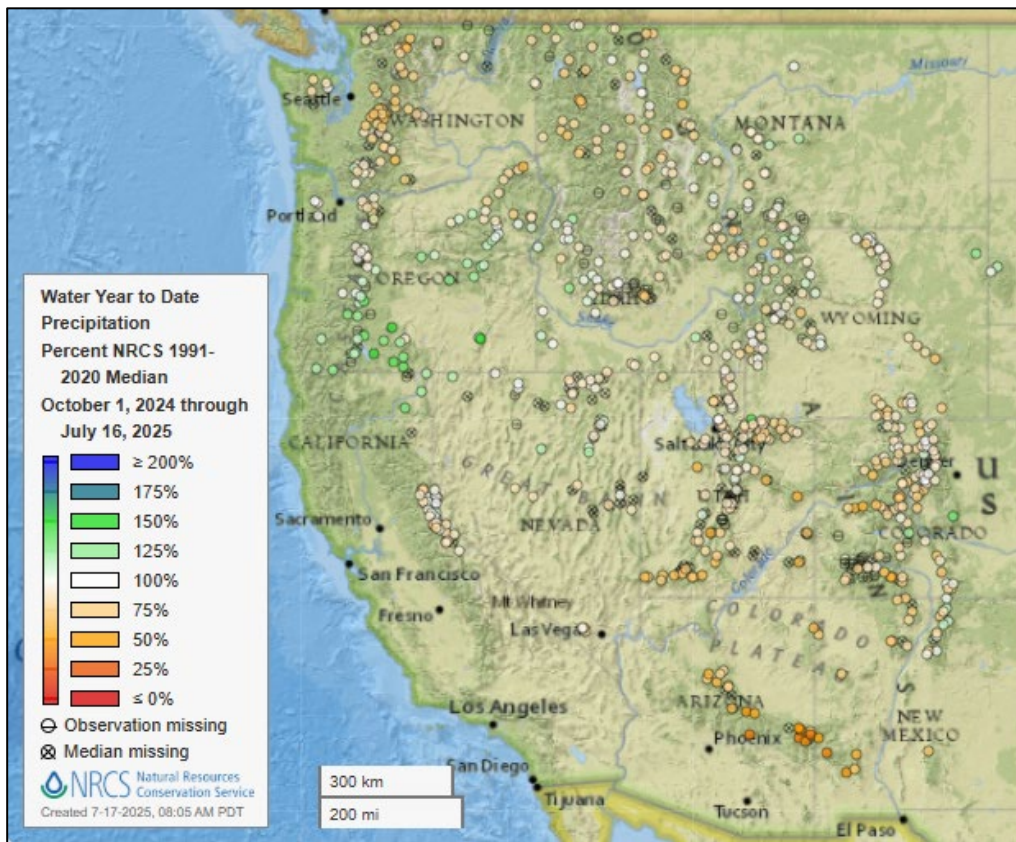
Period ending 7 AM EST 30 Jun 2025

Base period: 1991-2020

(Map graphic created 16 Jul 2025)



Water Year-to-Date, NRCS SNOTEL Network

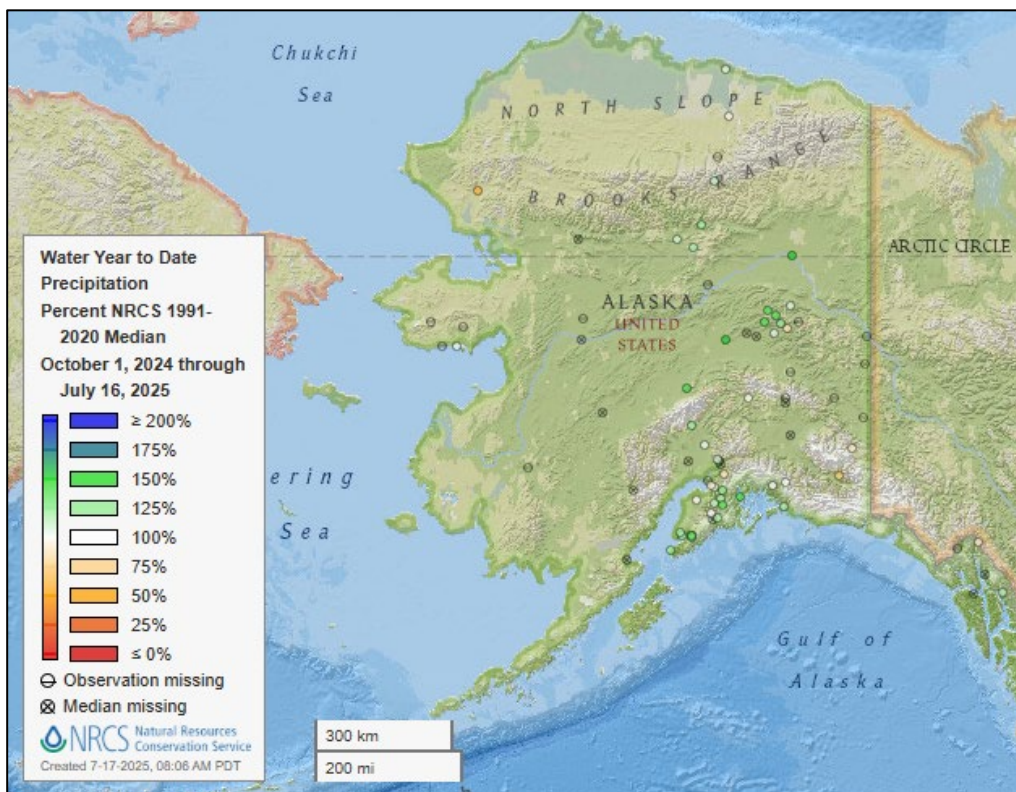


[2025 water year-to-date precipitation percent of median map](#)

See also:

[2025 water year-to-date precipitation percent of average map](#)

[2025 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2025 water year-to-date precipitation percent of median map](#)

See also:

[Alaska 2025 water year-to-date precipitation percent of average map](#)

[Alaska 2025 water year-to-date precipitation values \(inches\) map](#)

Temperature

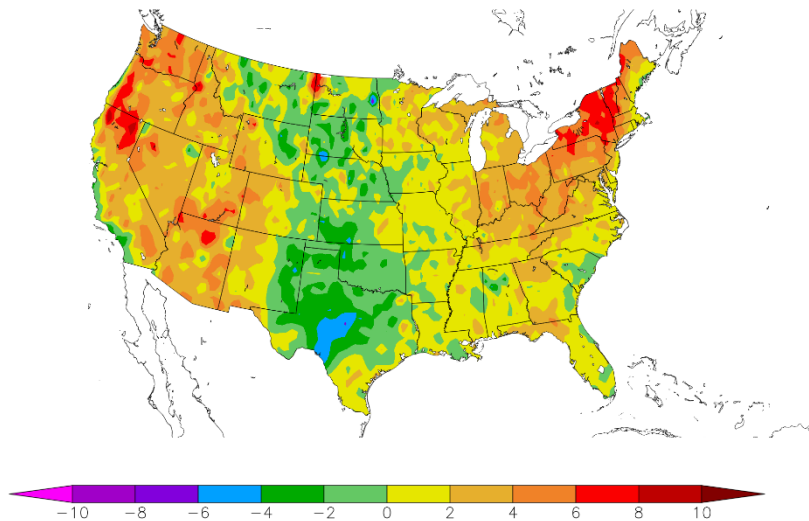
Last 7 Days, National Weather Service (NWS) Networks

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)
7/10/2025 – 7/16/2025



ACIS Web Services

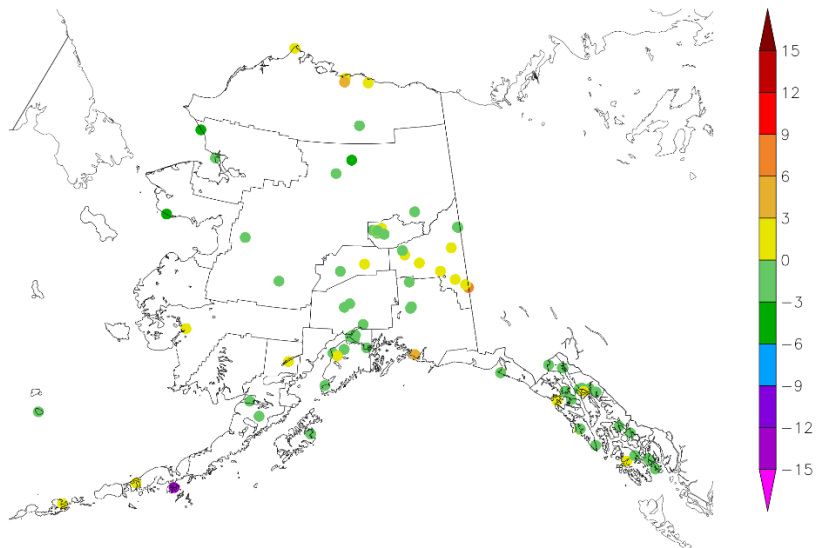
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
7/10/2025 – 7/16/2025

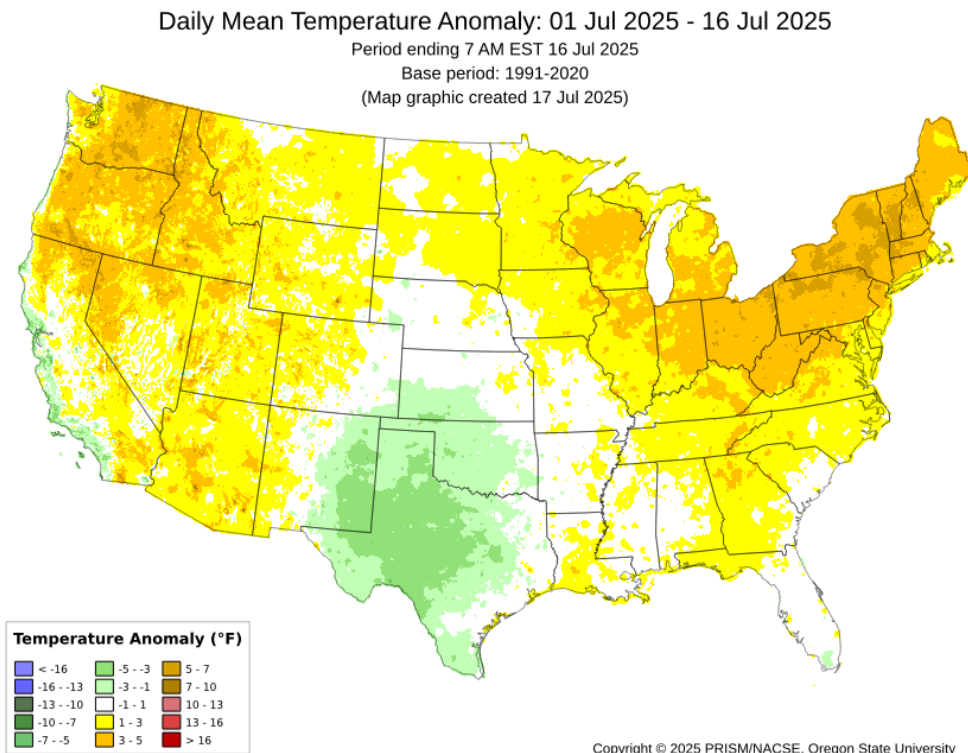


ACIS Web Services

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

Source: PRISM

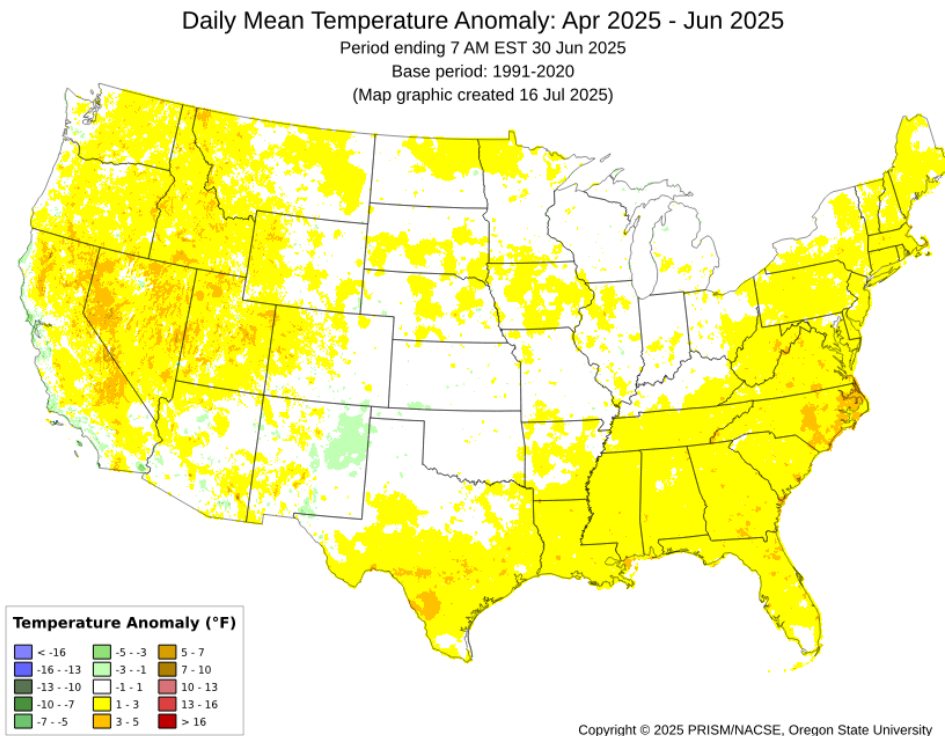
[Month-to-date
national daily
mean
temperature
anomaly map](#)



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

Source: PRISM

[April through June
2025 daily mean
temperature anomaly
map](#)



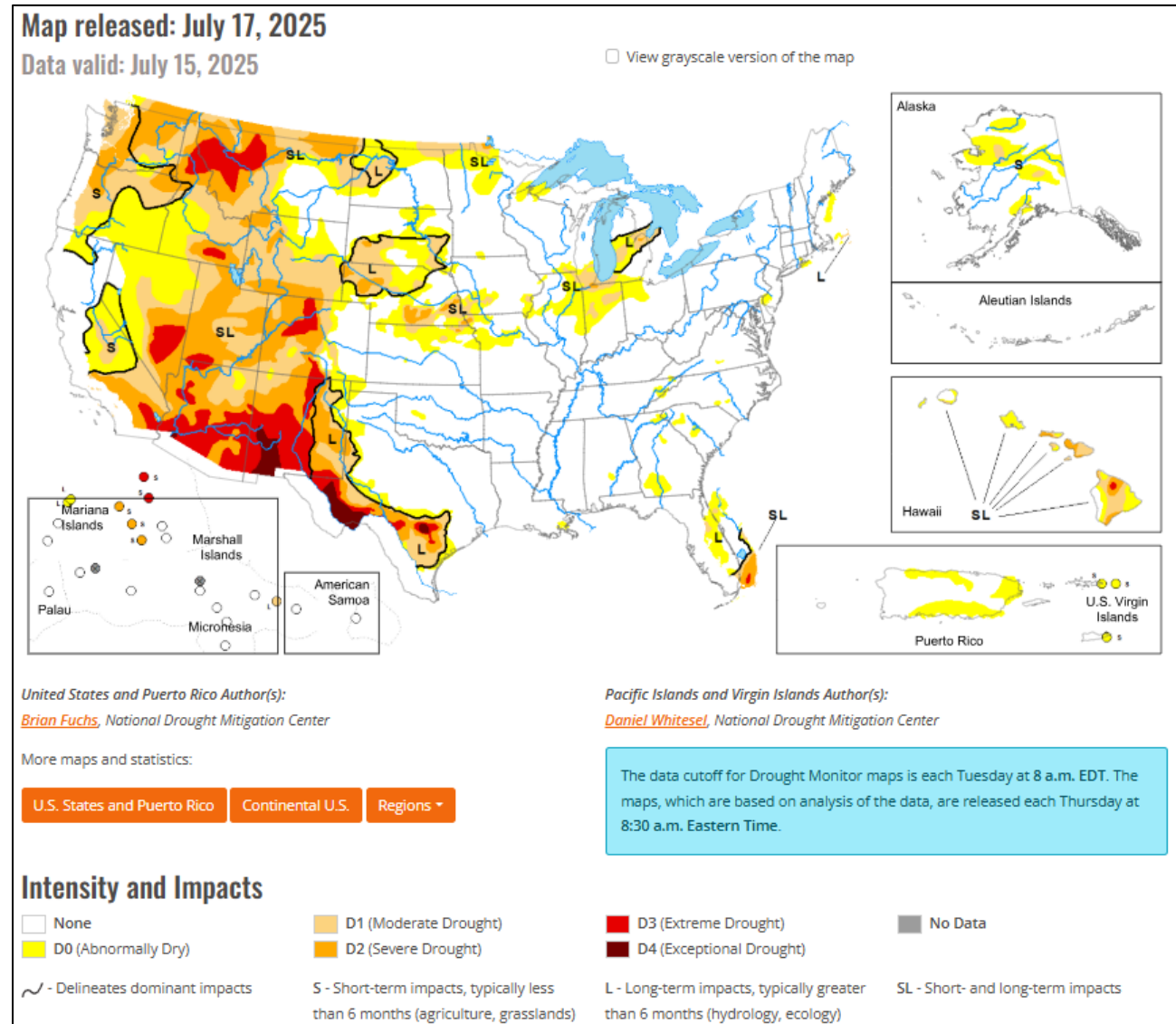
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), July 15, 2025

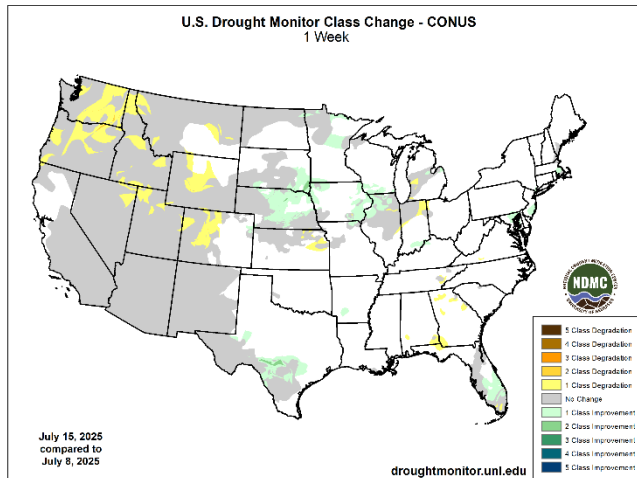
Source: National Drought Mitigation Center

“The last seven days was highlighted by dryness over much of the West, a continued active pattern bringing substantial rains to the southern Plains, and a wet week over much of the Mid-Atlantic and portions of the Midwest. Texas again stood out with several rain events that brought with them localized flooding. The long-term drought signal is still holding on in portions of southern Texas as recharge to depleted water systems has been slow, even with the rain in the region. Above-normal precipitation was recorded from eastern Nebraska through Illinois, bringing some much-needed rain to parts of northern Illinois. With the active rain pattern, temperatures over the southern Plains were 2-4 degrees below normal from Texas to Kansas and Nebraska while much of the West was 4-6 degrees above normal, with the greatest departures in Arizona and the Pacific Northwest. Warmer-than-normal temperatures dominated much of the eastern portions of the Midwest and the Northeast, where temperatures were 6-8 degrees above normal.”

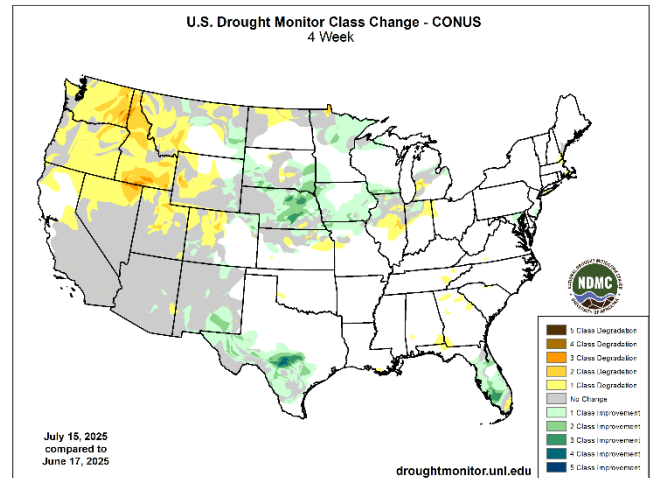
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

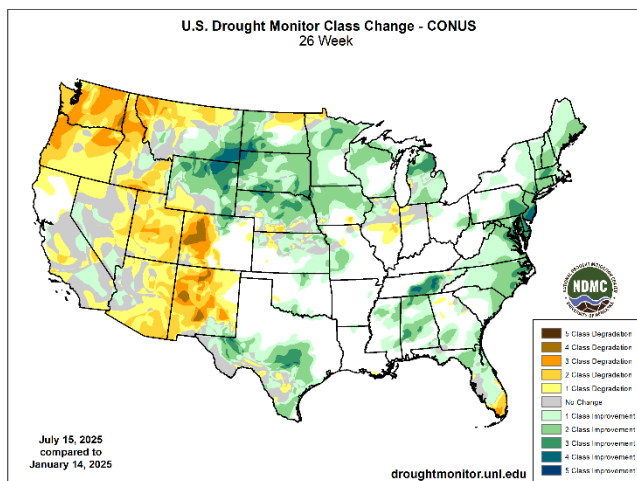
1 Week



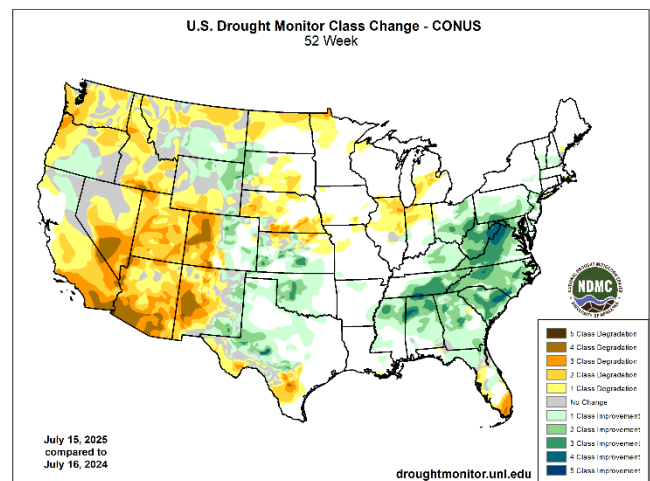
1 Month



6 Months



1 Year



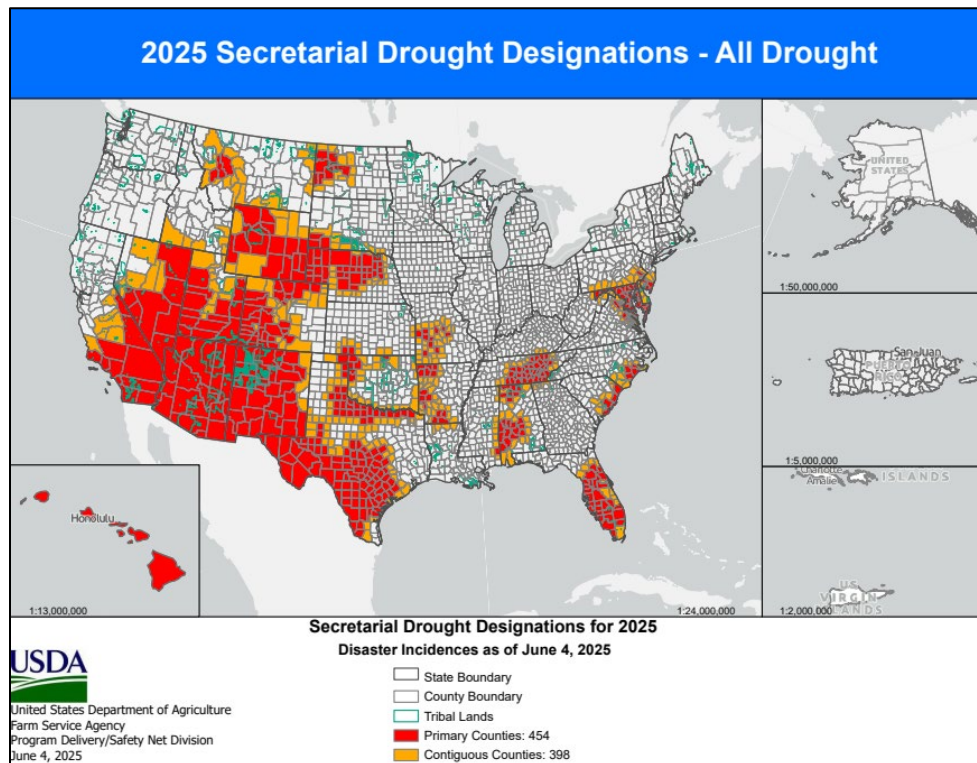
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

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](#)

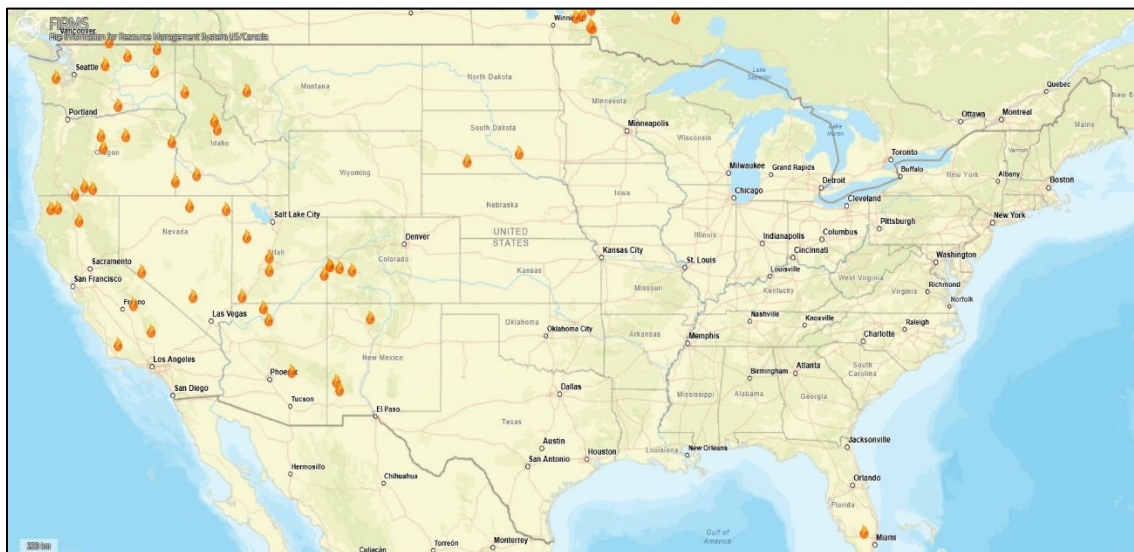
USDA Secretarial [Drought Designations](#)

Source: USDA Farm Service Agency



Wildfires: [Fire Information for Resource Management System US/Canada](#)

Source: NASA/USDA Forest Service



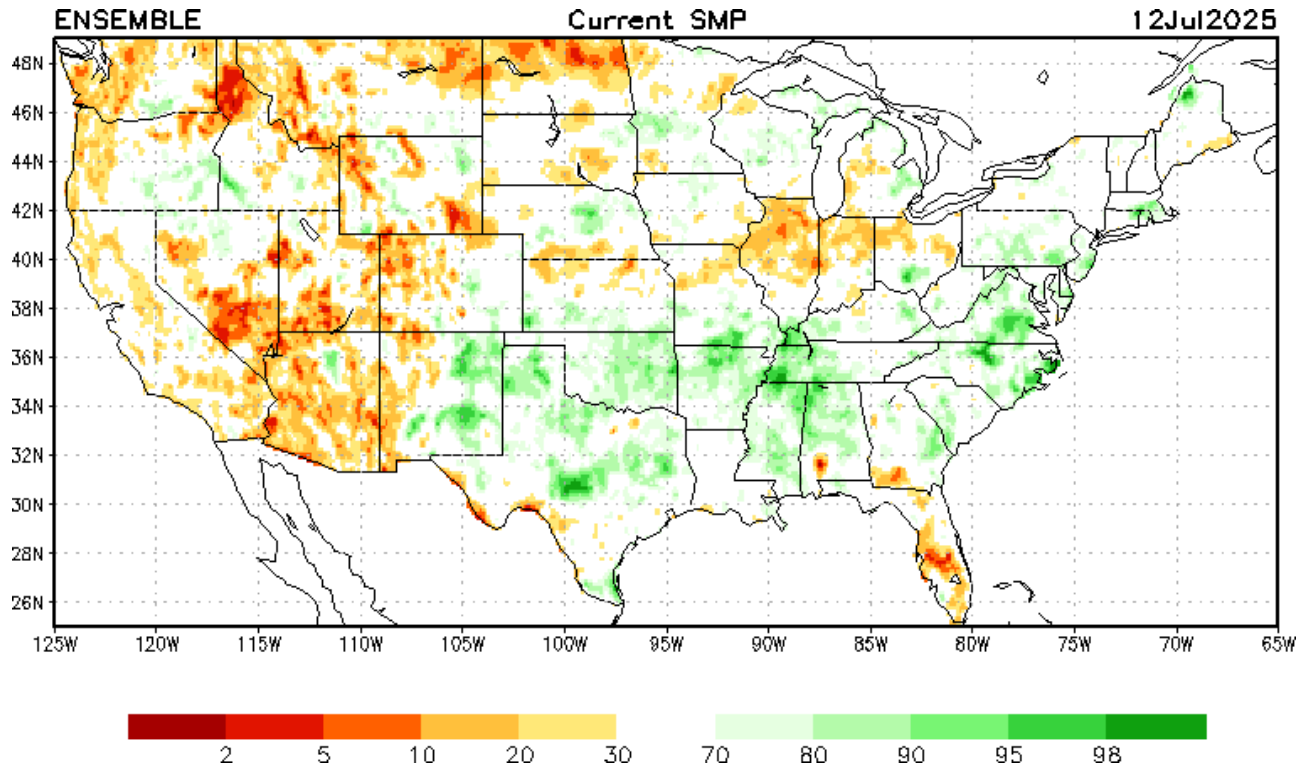
Highlighted Wildfire Resources

- [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

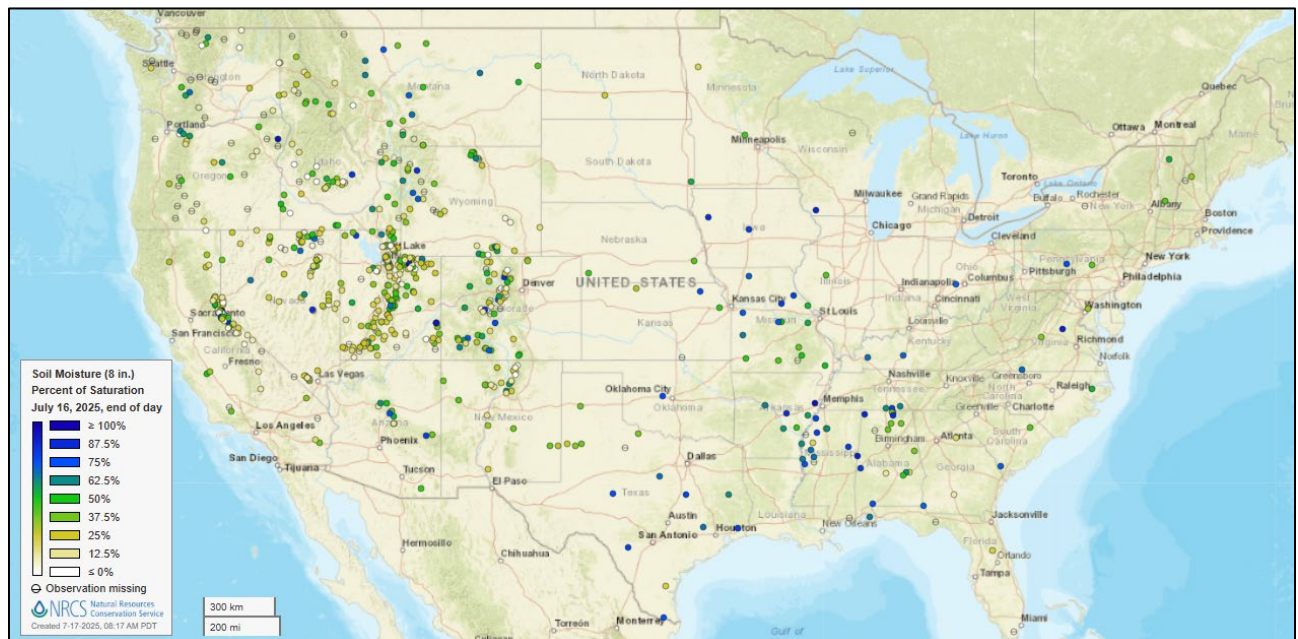


[Modeled soil moisture percentiles](#) as of July 12, 2025

Soil Moisture Percent of Saturation

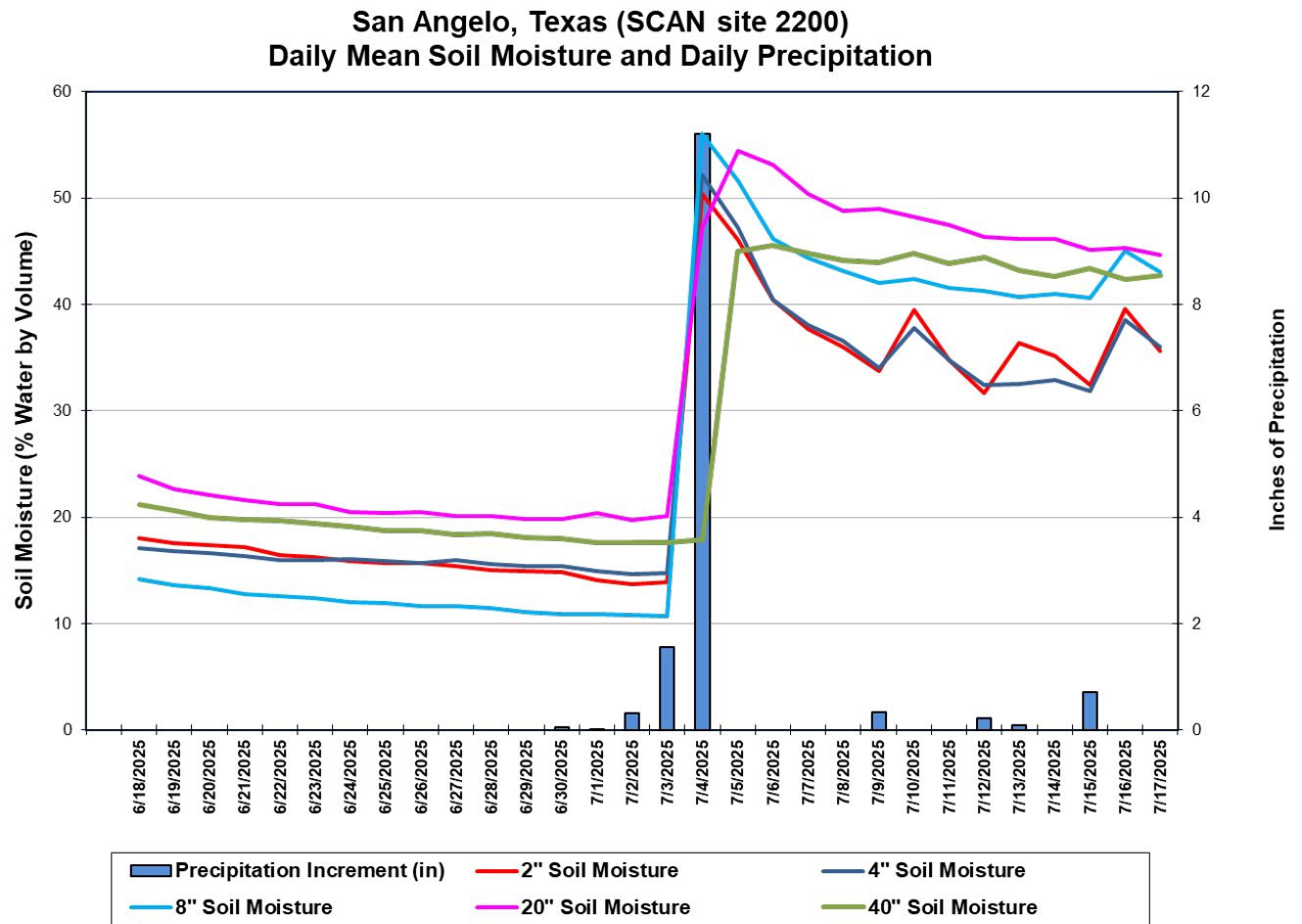
Source: NRCS SNOTEL and [Soil Climate Analysis Network](#) (SCAN)

[U.S. soil moisture map at 8-inch depth:](#)



Soil Moisture

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



This chart shows the precipitation and soil moisture for the last 30 days at the [San Angelo](#) SCAN site in Texas. Soil sensors at all depths recorded a dramatic increase in soil moisture after the site received 12.77 inches of precipitation between July 3-4. Total precipitation for the 30-day period was 14.49 inches.

Soil Moisture Data Portals

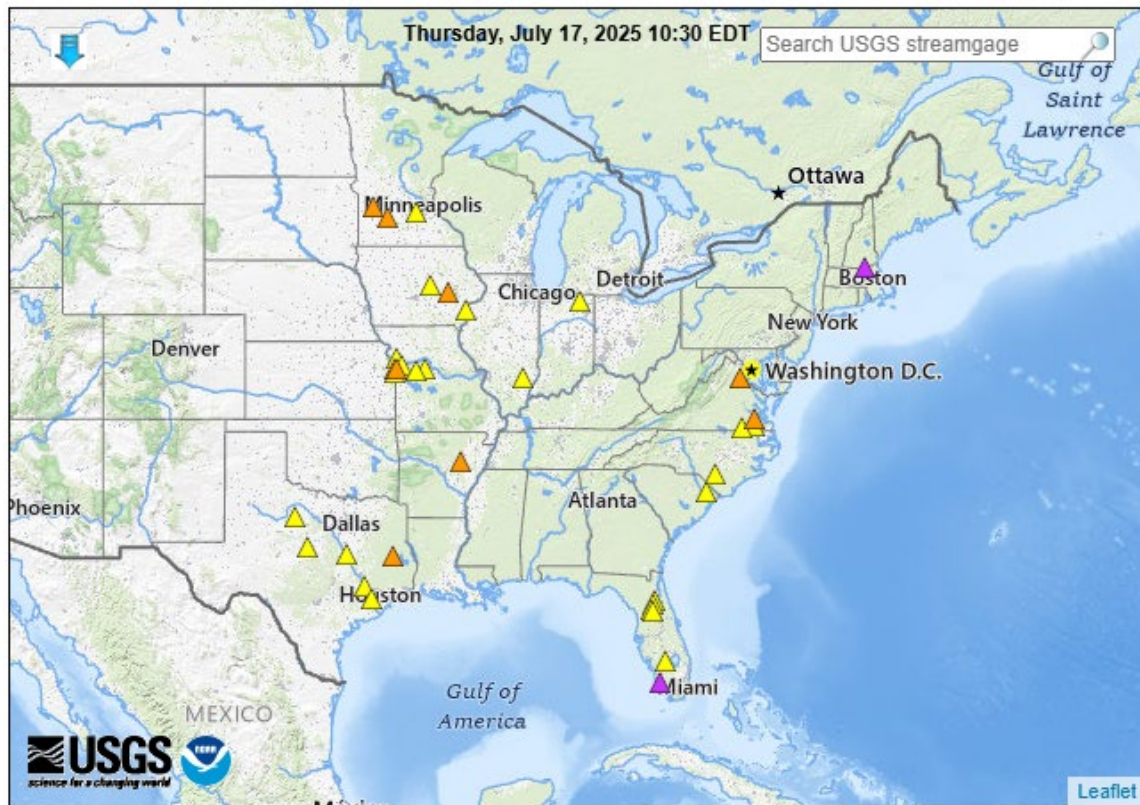
- [USCRN Soil Moisture](#)
- [National Soil Moisture Network](#)
- [NOAA Climate Prediction Center Soil Moisture](#)
- [NASA Grace](#)

Streamflow, Drought, Flood, and Runoff

Source: U.S. Geological Survey [WaterWatch Streamflow Map](#)

Map of flood and high flow conditions

(11 in floods [major: 2, minor: 9], 26 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

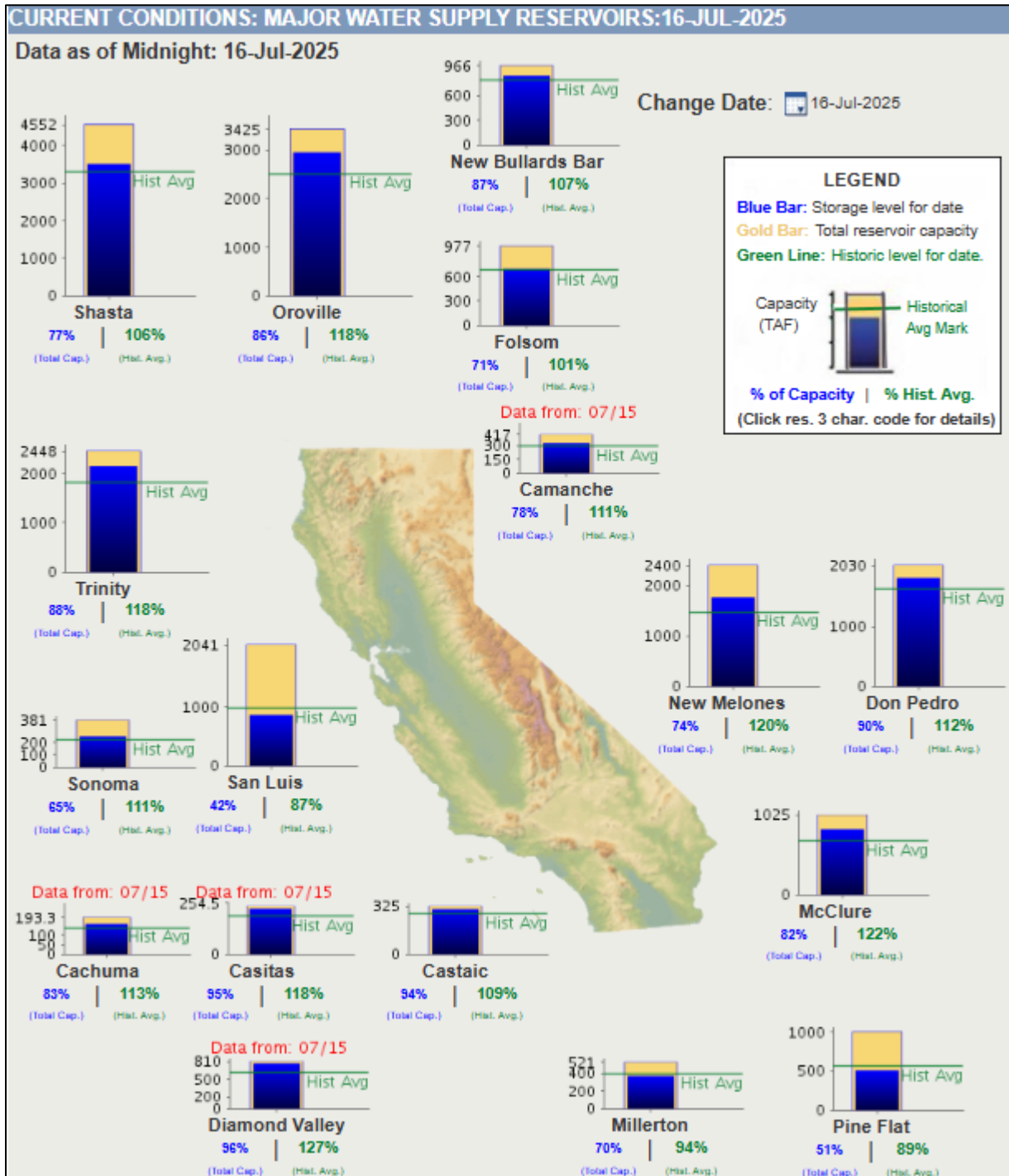
Hydromet Teacup Reservoir Depictions

Source: U.S. Bureau of Reclamation

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

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

Agricultural Weather Highlights

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

National Outlook, Thursday July 17, 2025: “A poorly organized low-pressure system near the central Gulf Coast is expected to move inland later today, with locally heavy rain totaling an additional 2 to 4 inches or more in southern Louisiana and environs. Meanwhile, a weakening cold front extending eastward from the central Plains will remain the focus of scattered showers. The front will also serve as the boundary between hot, humid conditions in the South and rather cool conditions across the northern half of the Plains and much of the Midwest. Five-day rainfall totals in the vicinity of the front could reach 1 to 3 inches, with locally higher amounts. In contrast, hot, mostly dry weather will prevail in the south-central U.S., including the flood-recovery areas of Texas. Elsewhere, thundershowers associated with the North American monsoon circulation will be scattered across the West, excluding the Pacific Coast States and the northern Rockies. At the same time, heat will gradually ease across the West but further intensify from the central and southern Plains into the Southeast. The NWS 6- to 10-day outlook for July 22 – 26 calls for the likelihood of above-normal temperatures from the central and southern Rockies to the Atlantic Coast, excluding Maine, while cooler-than-normal conditions will cover California, the Great Basin, the Northwest, and the northern High Plains. Meanwhile, near- or below-normal rainfall across much of the southern half of the U.S. should contrast with wetter-than-normal weather in the North and lower Southeast, including the Florida.”

Weather Hazards Outlook: [July 19 – 23, 2025](#)

Source: NOAA Weather Prediction Center

U.S. Day 3-7 Hazards Outlook

About the Hazards Outlook

Created July 16, 2025

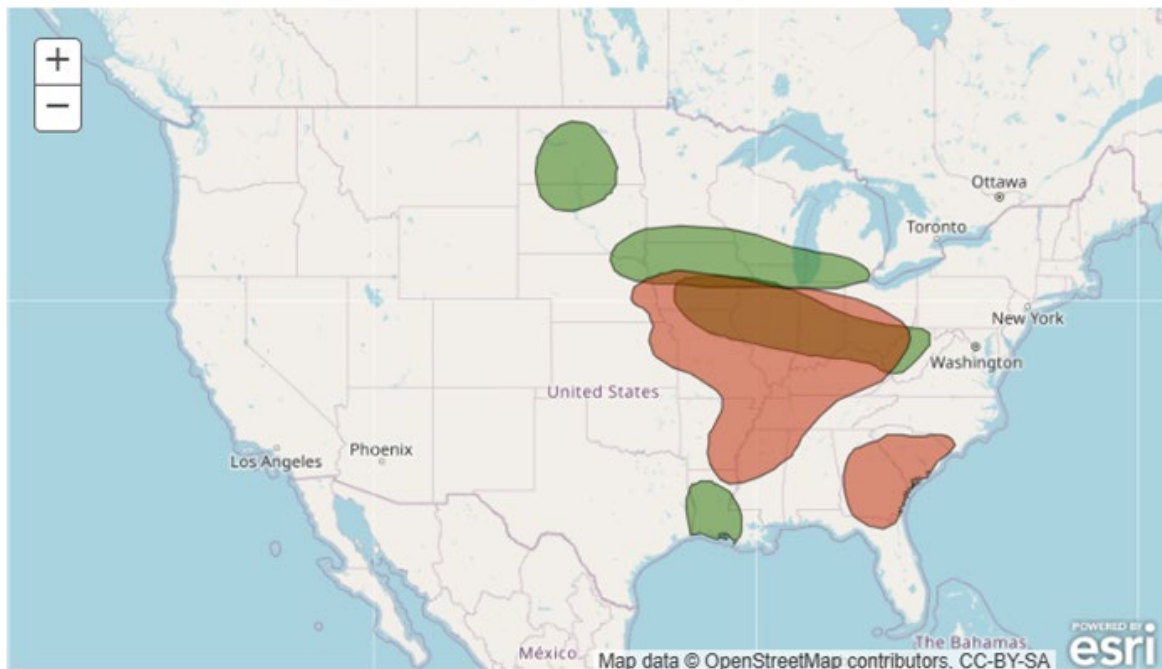
NOTE: These products are only created Monday through Friday. Please exercise caution using this outlook during the weekend.

Precipitation	☒
Temperature	☒
Wildfires	☒
Soils	☐
Flooding	☐

Legend

 Flooding Likely	 Hazardous Heat
 Flooding Occurring or Imminent	 Hazardous Cold
 Flooding Possible	 Frost/Freeze
 Freezing Rain	 High Winds
 Heavy Precipitation	 Significant Waves
 Heavy Rain	 Critical Wildfire Risk
 Heavy Snow	 Severe Weather

Valid July 19, 2025 - July 23, 2025

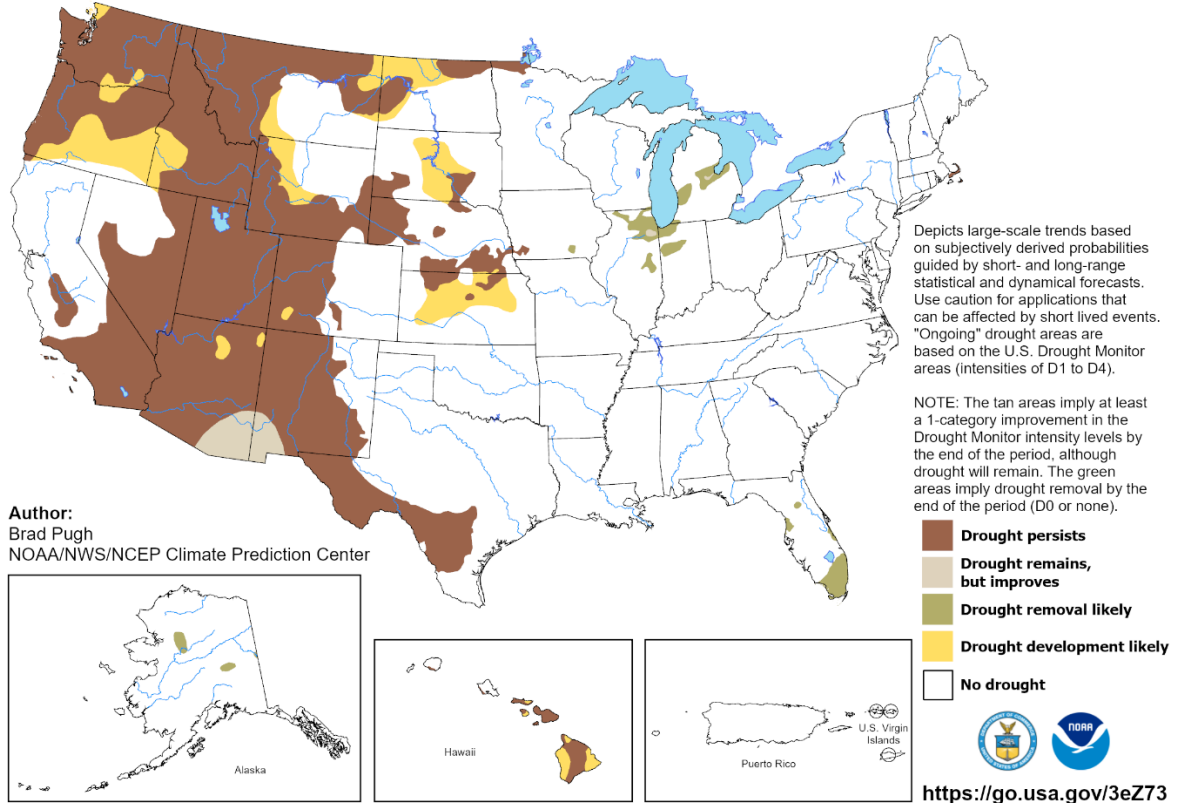


Seasonal Drought Outlook: [July 17 – October 31, 2025](#)

Source: National Weather Service

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

Valid for July 17 - October 31, 2025
Released July 17, 2025

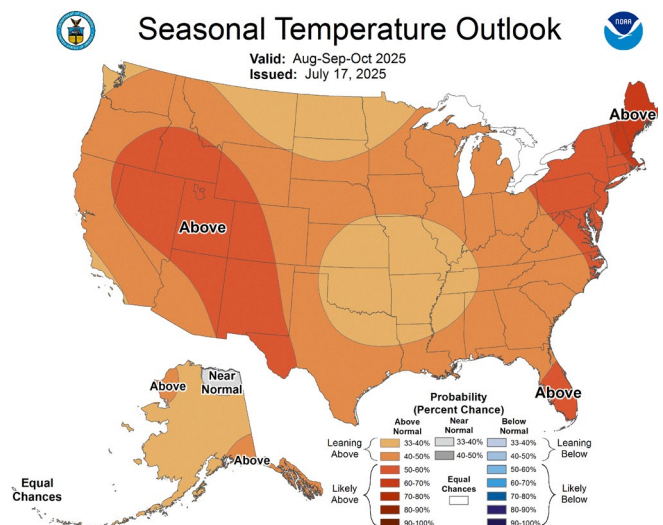
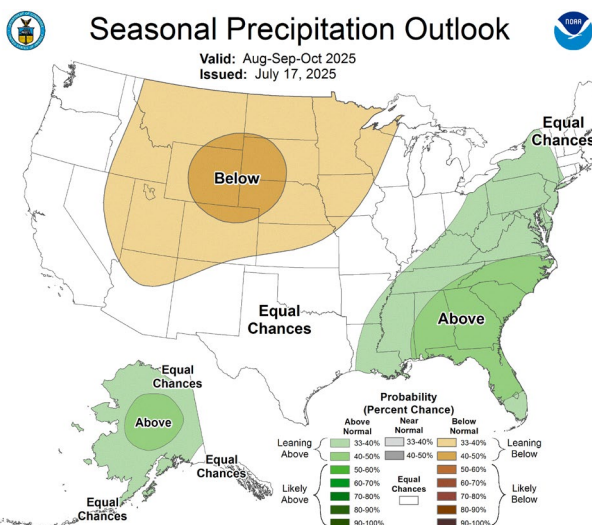


Climate Prediction Center Three-month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[August-September-October 2025 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](#).