



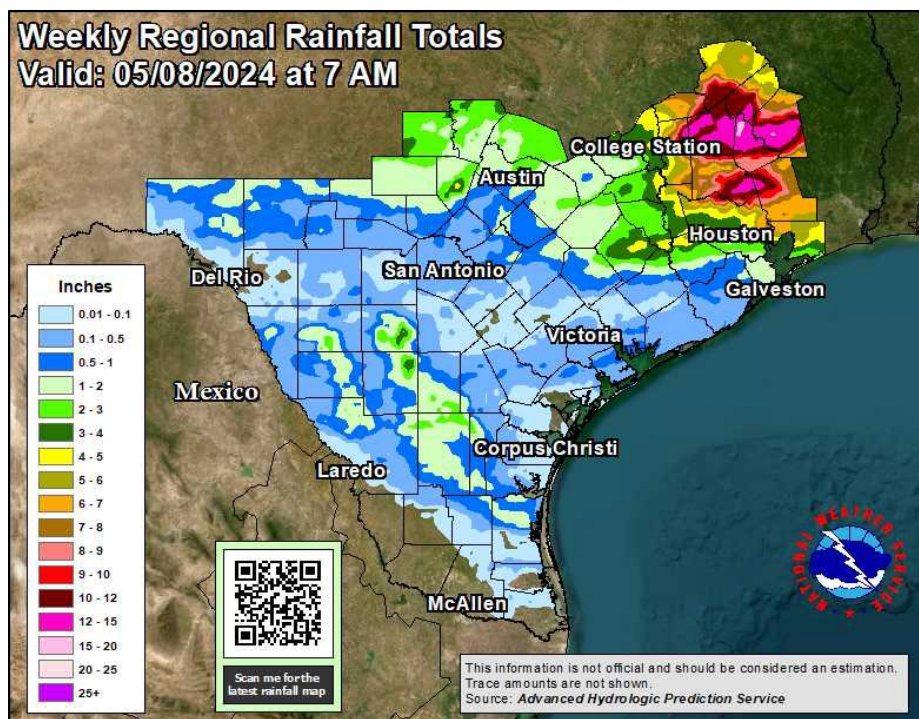
Water and Climate Update

May 09, 2024

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	Drought	10
Precipitation	4	Other Climatic and Water Supply Indicators	13
Temperature.....	8	More Information	19

Severe weather impacts multiple U.S. regions in early May



May 6-8 brought a variety of severe weather to the Midwest, Great Plains, and southern U.S. Unstable atmospheric conditions produced over 100 tornadoes spanning from Arkansas to Michigan, according to the Storm Prediction Center (SPC). The SPC also listed over 1,000 storm reports across the region during the period, including baseball-sized hail in Missouri and powerful winds reported over 70 mph. The first week of May brought over a foot of rain to a section of Texas north of Houston, prompting rescue efforts after the downpour caused hazardous floods.

Related:

[Officials survey immense tornado damage in Michigan as millions brace for severe weather](#) – USA Today

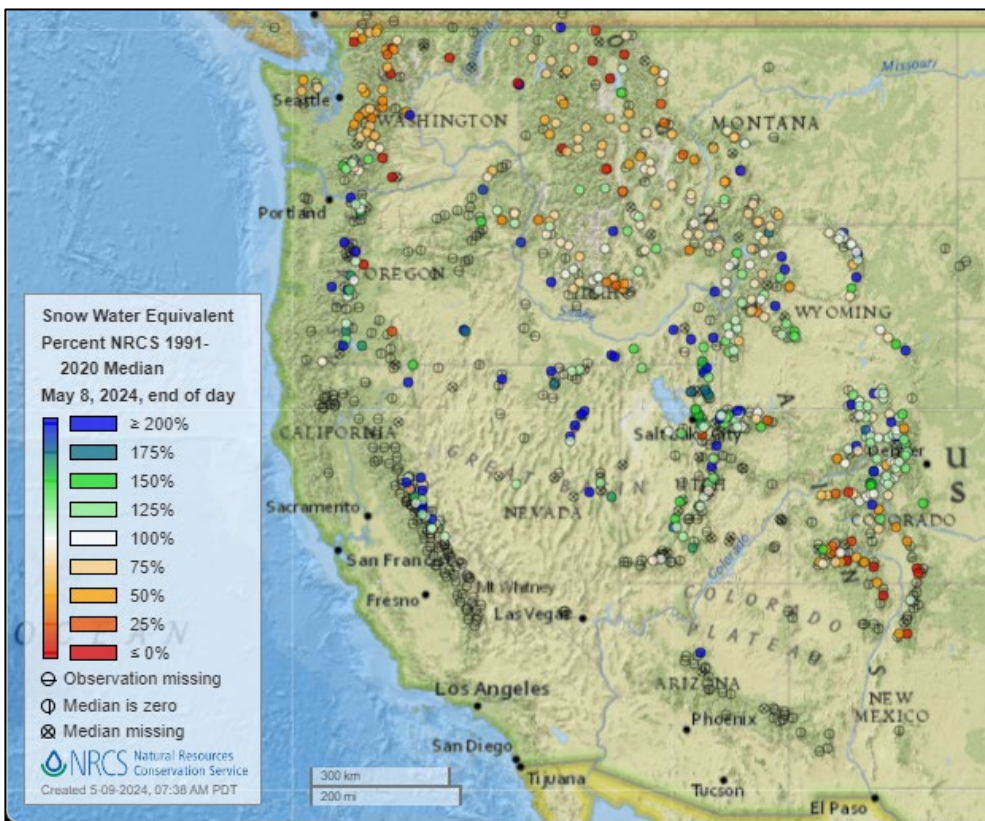
[Confirmed tornado hit near Pittsburgh International Airport during early morning storms, NWS says](#) – WXPI (Pittsburgh, PA)

[Floodwaters start receding around Houston area as recovery begins following rescues and evacuations](#) – AP News

[See the scope of flooding in East Texas](#) – Texas Tribune

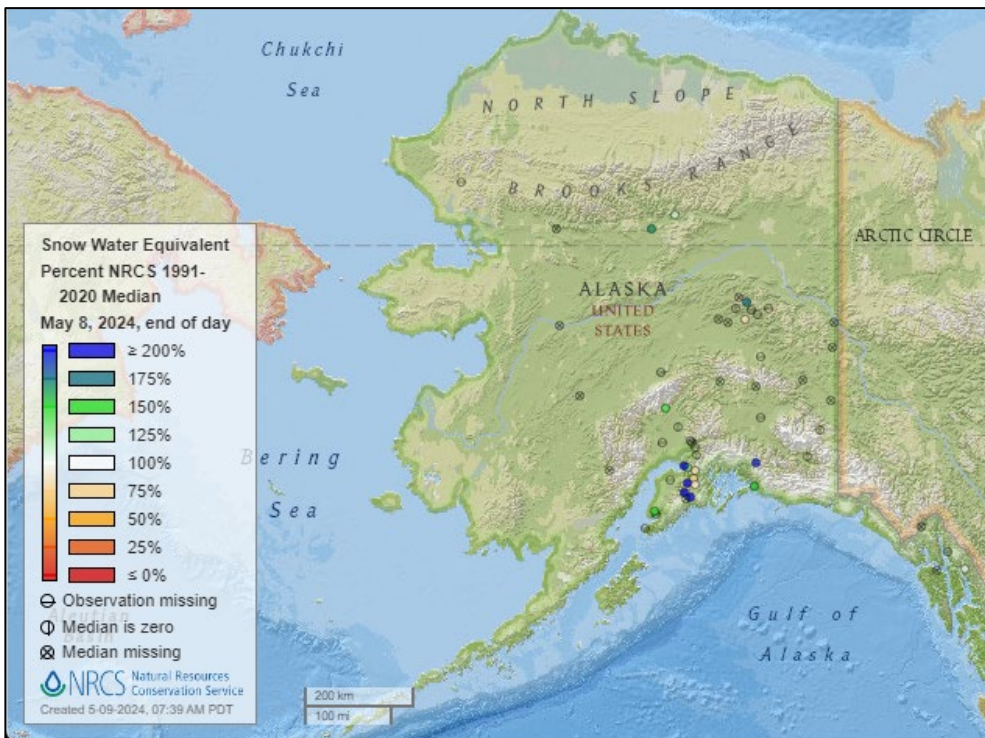
[Storm Prediction Center](#) – NOAA, National Weather Service

Snow



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

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

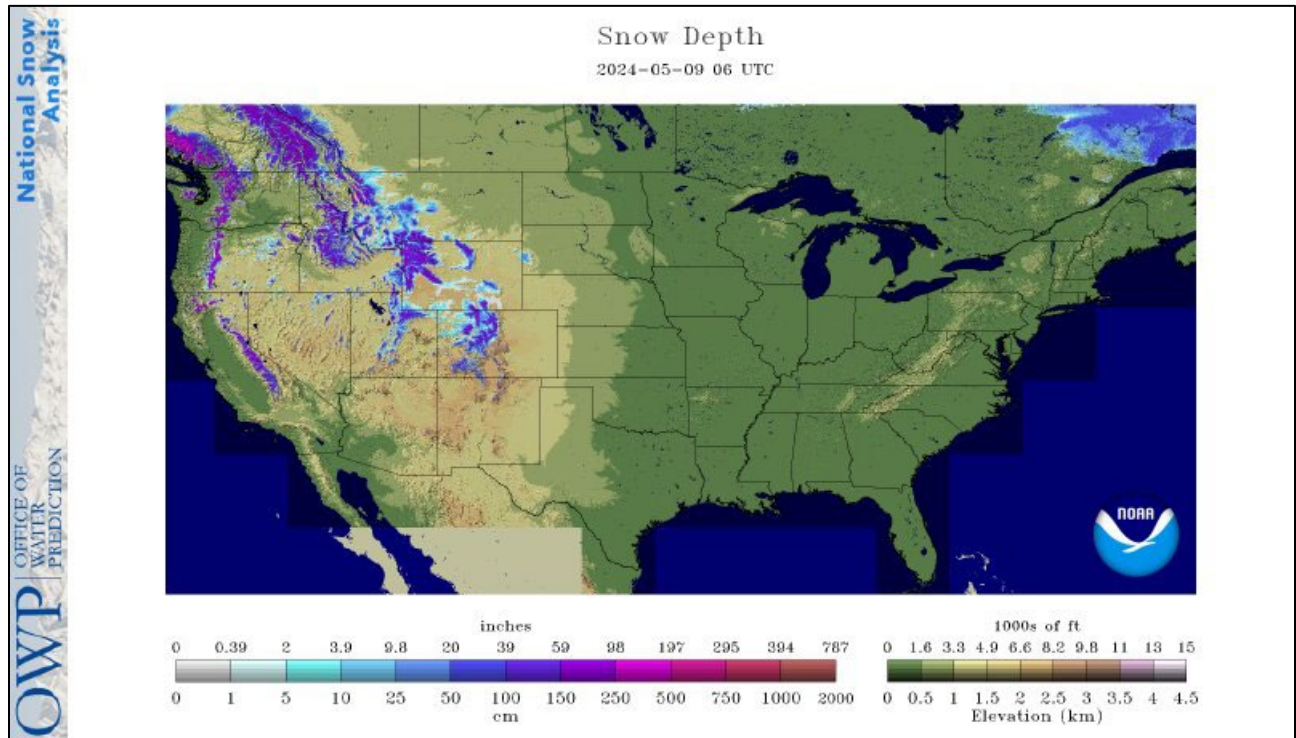


[Alaska snow water equivalent percent of median map](#)

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

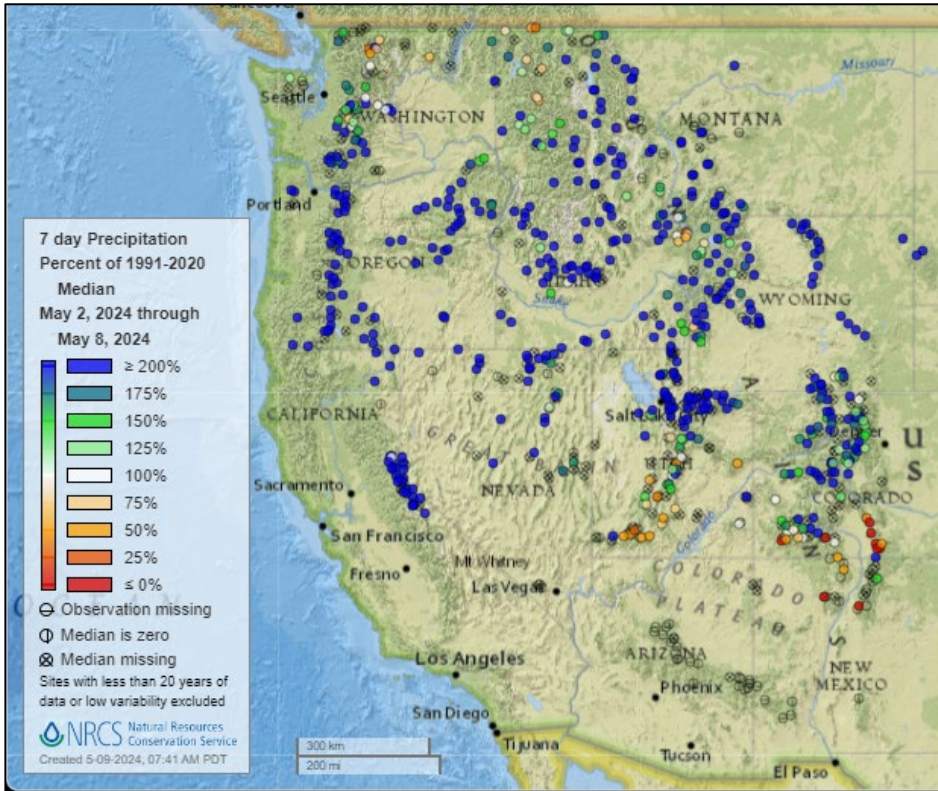
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA NWS National Operational Hydrologic Remote Sensing Center



Precipitation

Last 7 Days, NRCS SNOTEL Network

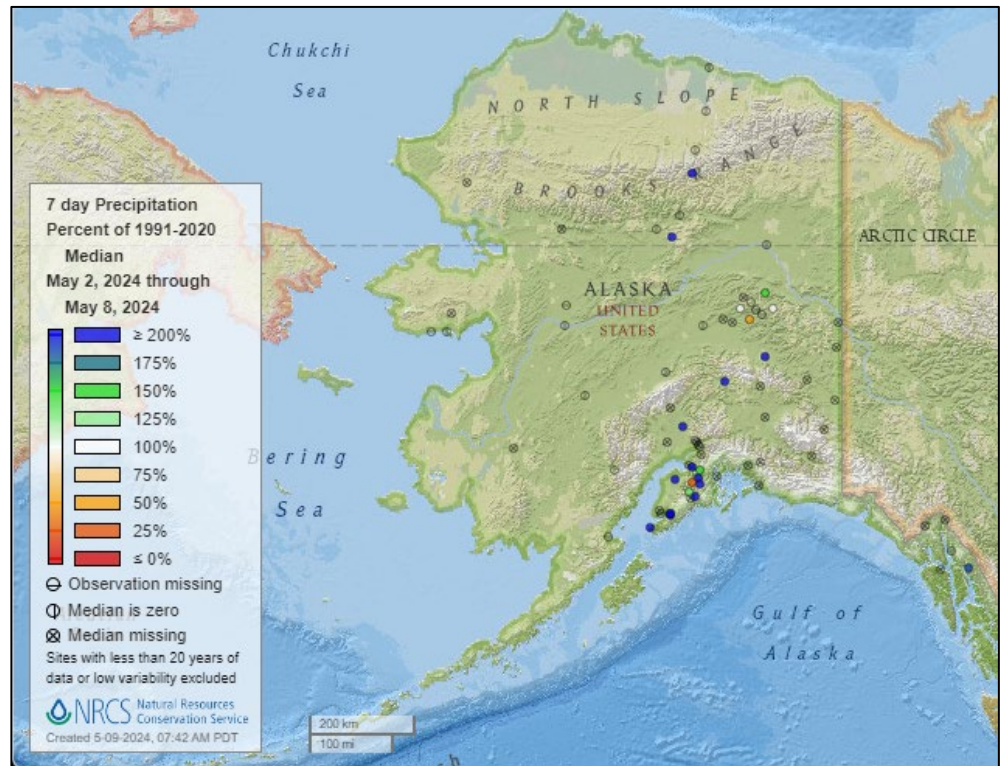


[7-day precipitation percent of median map](#)

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

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

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



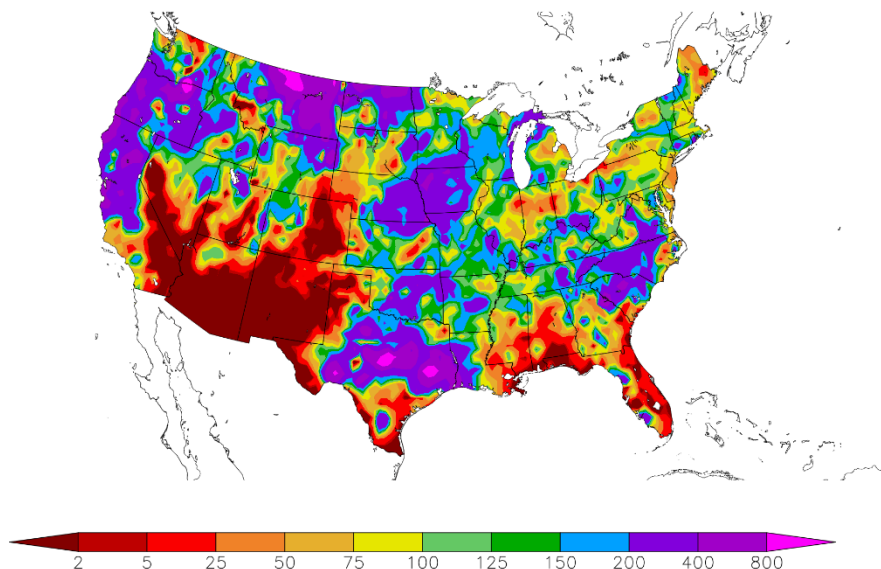
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
5/2/2024 – 5/8/2024



Generated 5/9/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

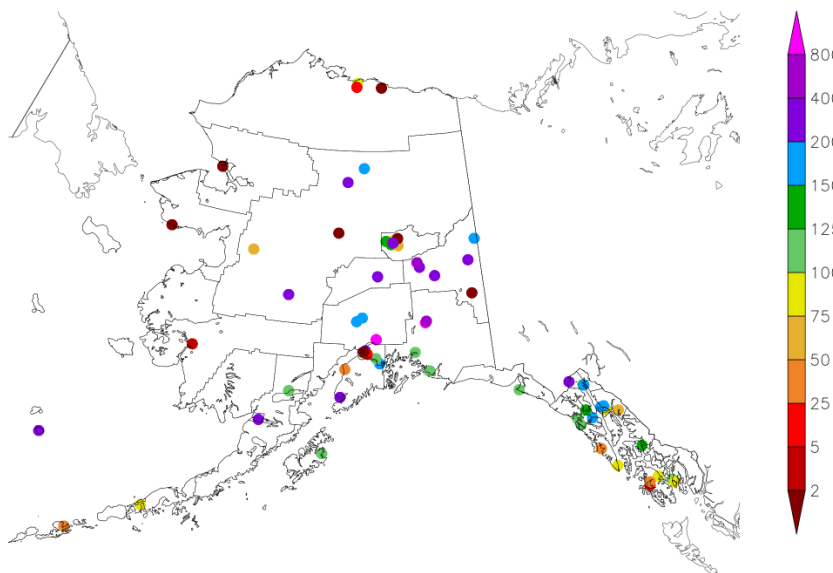
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
5/2/2024 – 5/8/2024



Generated 5/9/2024 at HPRCC using provisional data.

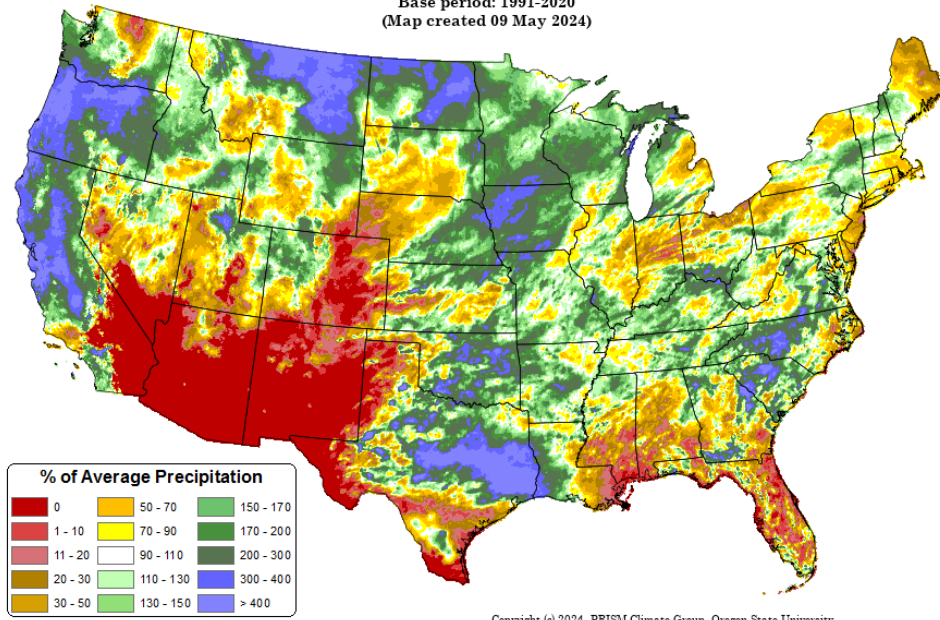
NOAA Regional Climate Centers

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

Source: PRISM

Total Precipitation Anomaly: 01 May 2024 - 08 May 2024
Period ending 7 AM EST 08 May 2024
Base period: 1991-2020
(Map created 09 May 2024)

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



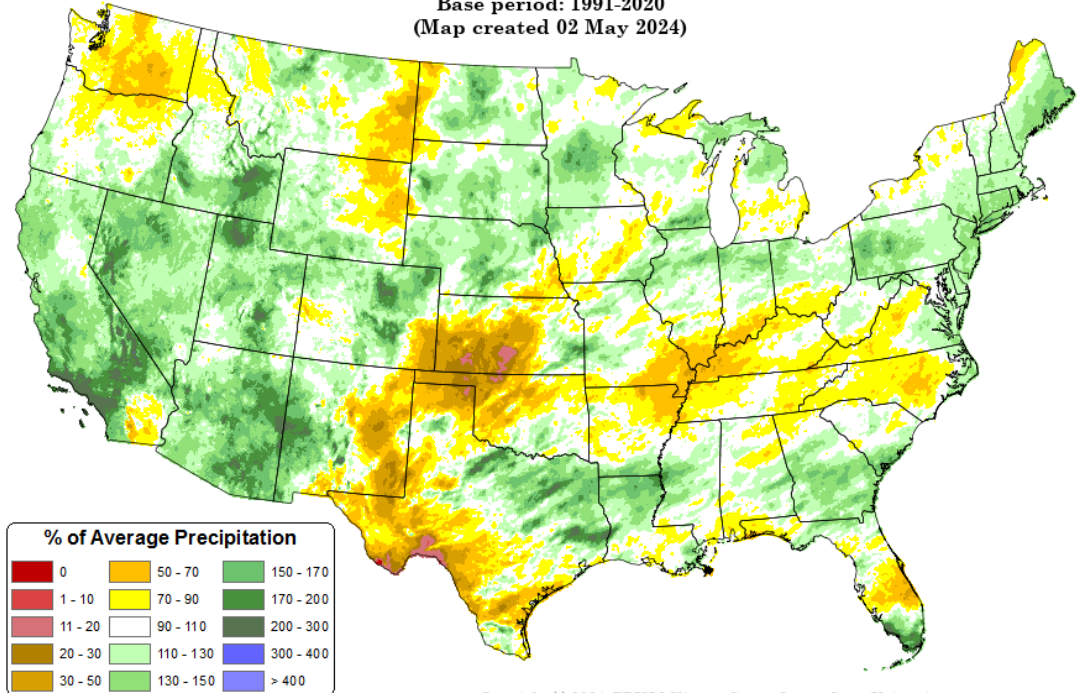
Copyright (c) 2024, PRISM Climate Group, Oregon State University

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

Source: PRISM

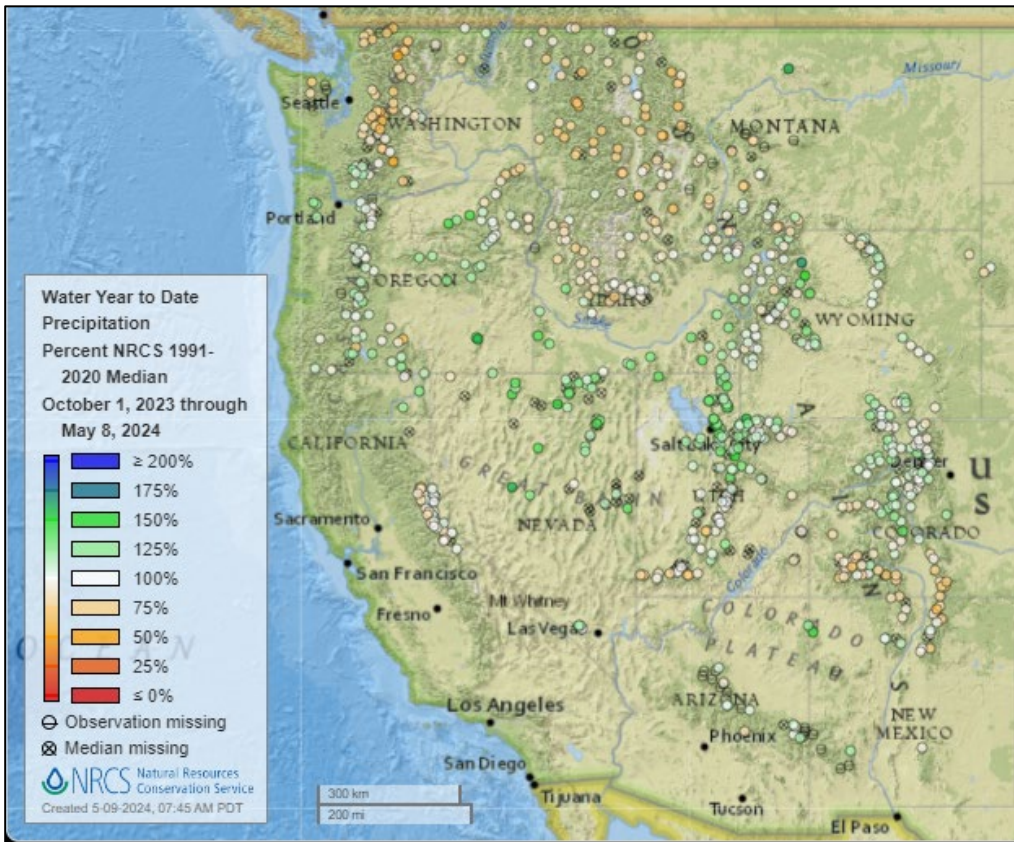
[February through April 2024 precipitation anomaly map](#)

Total Precipitation Anomaly: Feb 2024 - Apr 2024
Period ending 7 AM EST 30 Apr 2024
Base period: 1991-2020
(Map created 02 May 2024)



Copyright (c) 2024, PRISM Climate Group, Oregon State University

Water Year-to-Date, NRCS SNOTEL Network

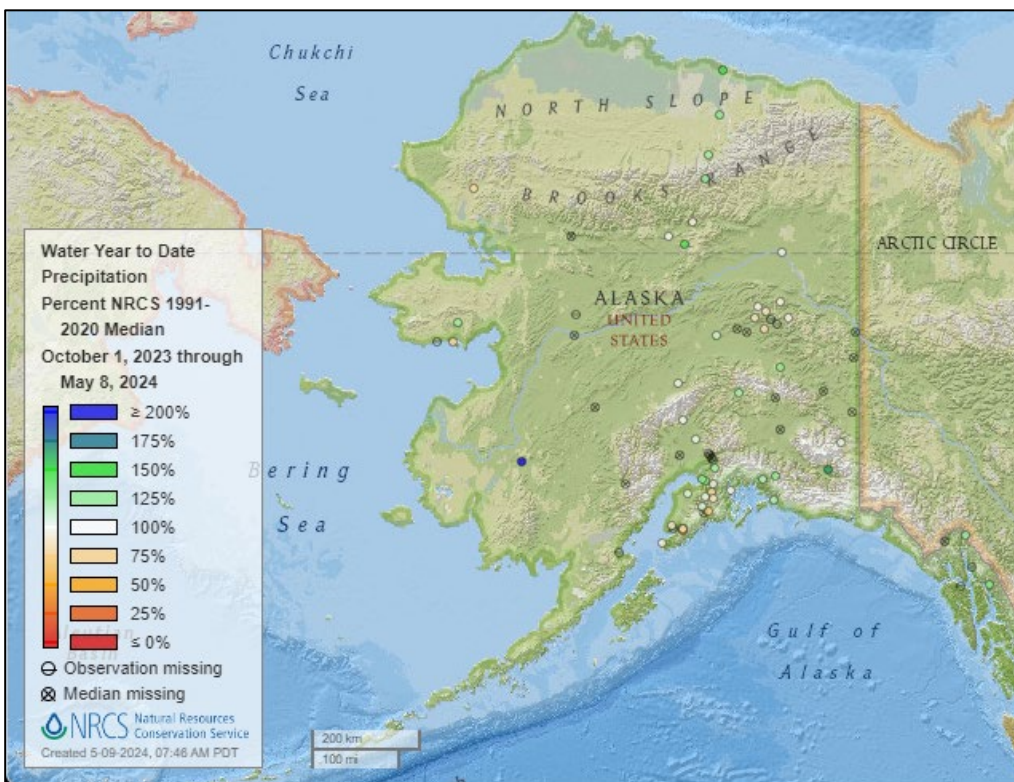


[2024 water year-to-date precipitation percent of median map](#)

See also:

[2024 water year-to-date precipitation percent of average map](#)

[2024 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2024 water year-to-date precipitation percent of median map](#)

See also:

[Alaska 2024 water year-to-date precipitation percent of average map](#)

[Alaska 2024 water year-to-date precipitation values \(inches\) map](#)

Temperature

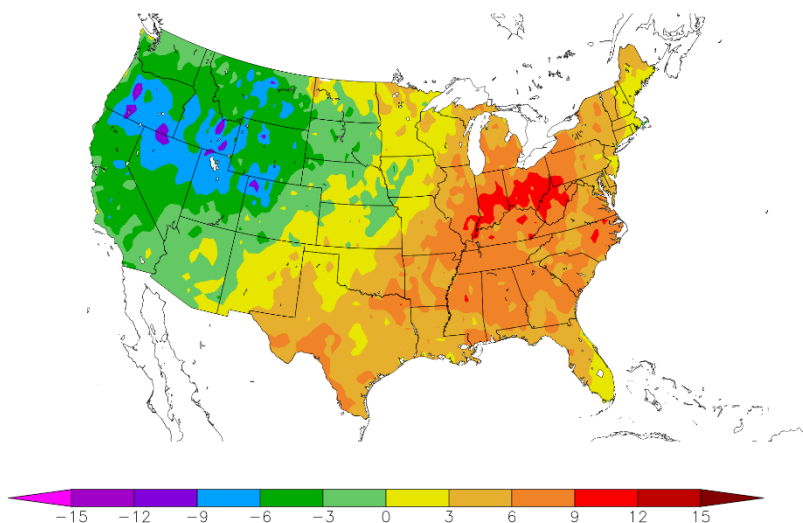
Last 7 Days, National Weather Service (NWS) Networks

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)
5/2/2024 – 5/8/2024



Generated 5/9/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

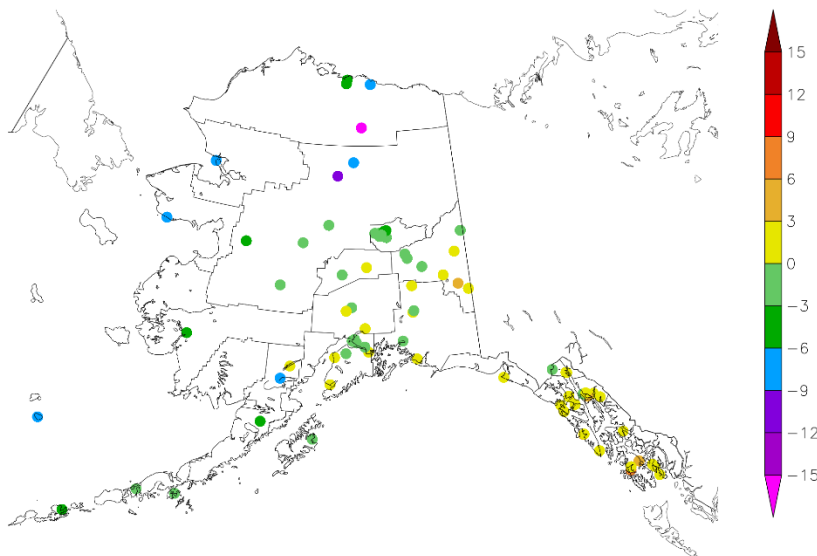
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
5/2/2024 – 5/8/2024



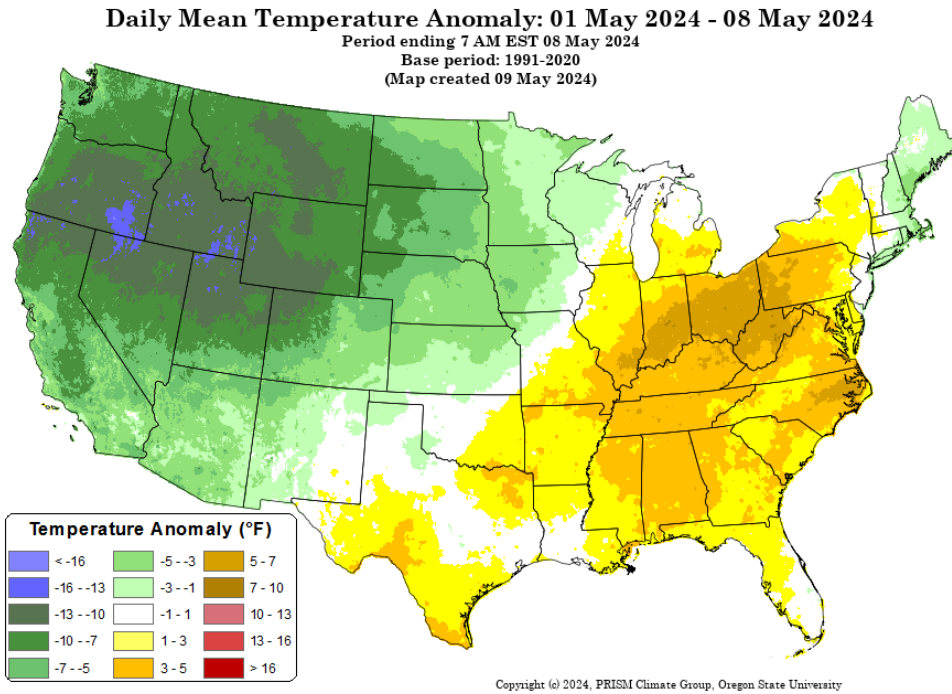
Generated 5/9/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

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

Source: PRISM

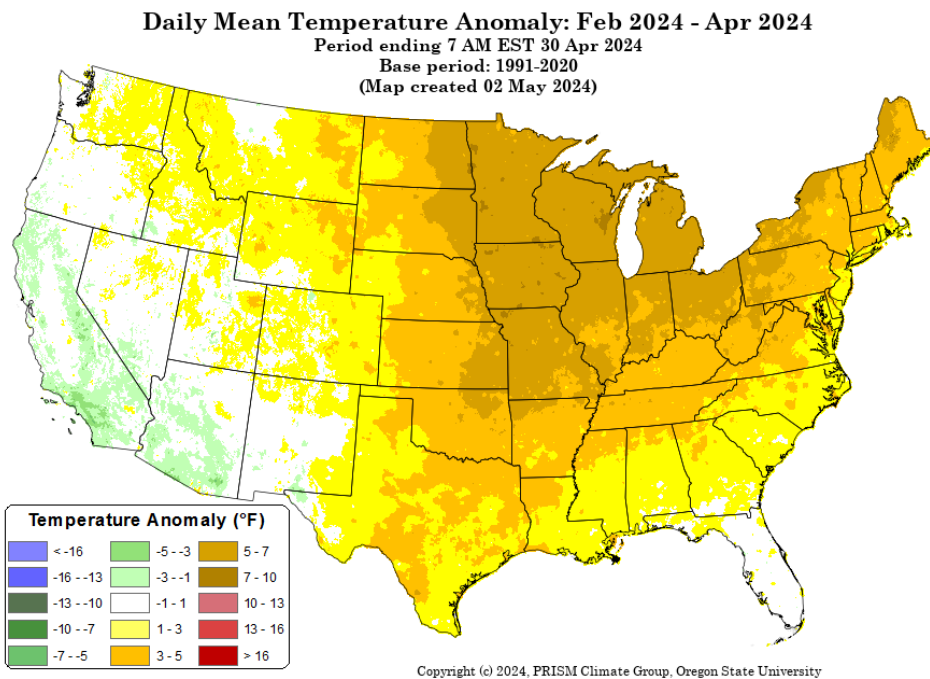
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[February through April 2024 daily mean temperature anomaly map](#)



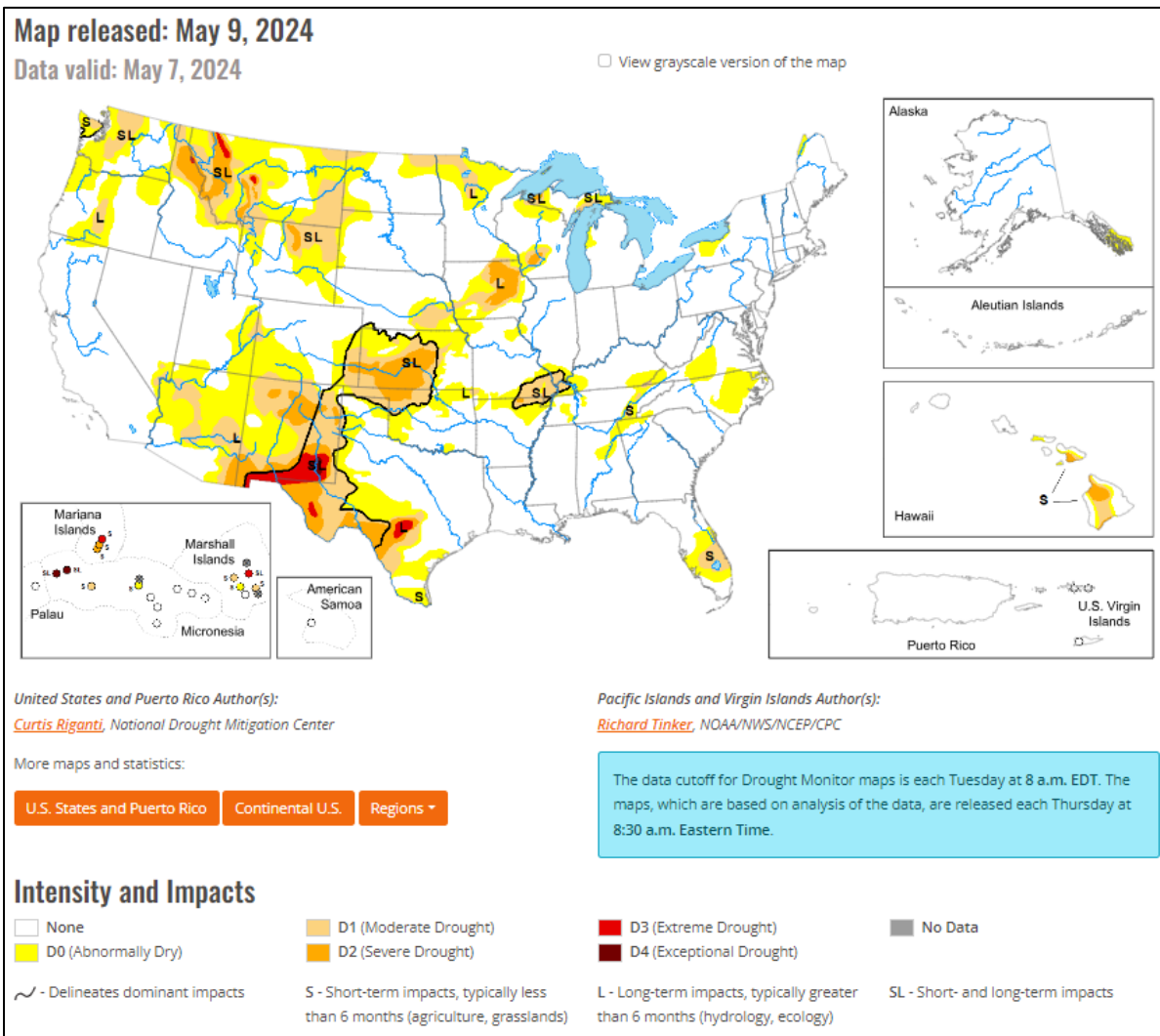
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), May 07, 2024

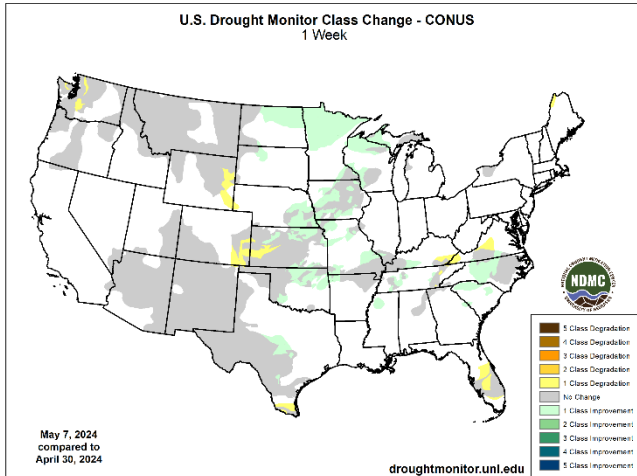
Source: National Drought Mitigation Center

“Heavy precipitation fell in western Oregon and adjacent southwest Washington and northwest California this week, and across large portions of the central U.S., as a series of storm systems caused continued bouts of severe thunderstorms and unfortunately included more significant tornadoes. The wet weather across portions of the Great Plains and Midwest led to either scattered or widespread improvements to ongoing drought or abnormal dryness, dependent on precipitation amounts, improvements to soil moisture and streamflow, and the degree of long-term dryness remaining in different locations. In Virginia, the Carolinas, and eastern Tennessee and Kentucky, heavy rains or lack thereof this week led to localized improvements or degradations in areas of short-term moderate drought or abnormal dryness. Very dry weather for the past few months led to increased fire danger in parts of the Florida Peninsula, and short-term moderate drought and abnormal dryness expanded in coverage. In southwest Kansas and adjacent eastern Colorado, mostly to the west of where this week’s showers and thunderstorms occurred, flash drought conditions continued and severe and moderate drought expanded in coverage. In Hawaii, wet weather continued on the windward sides of the islands, and some improvement to conditions occurred in Lanai and western Maui. Another wet week in Puerto Rico allowed for the removal of abnormal dryness from the northwest corner of the island.”

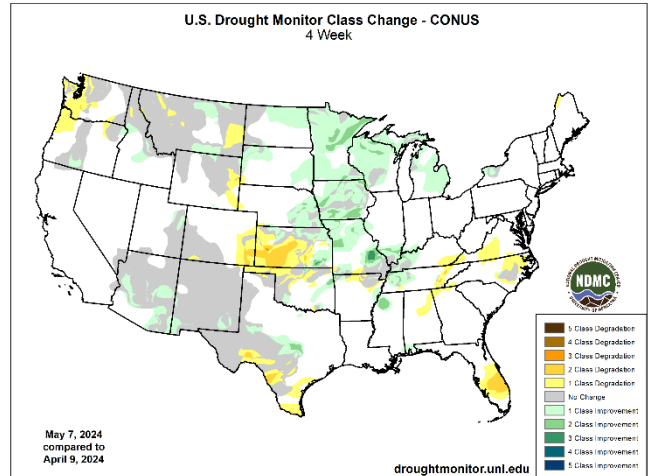
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

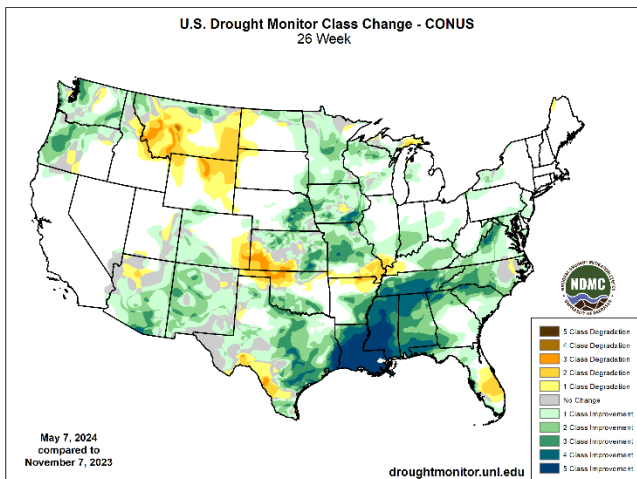
1 Week



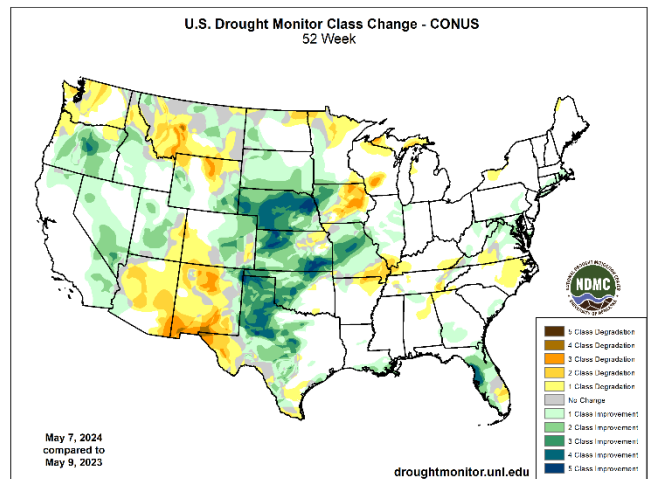
1 Month



6 Months



1 Year



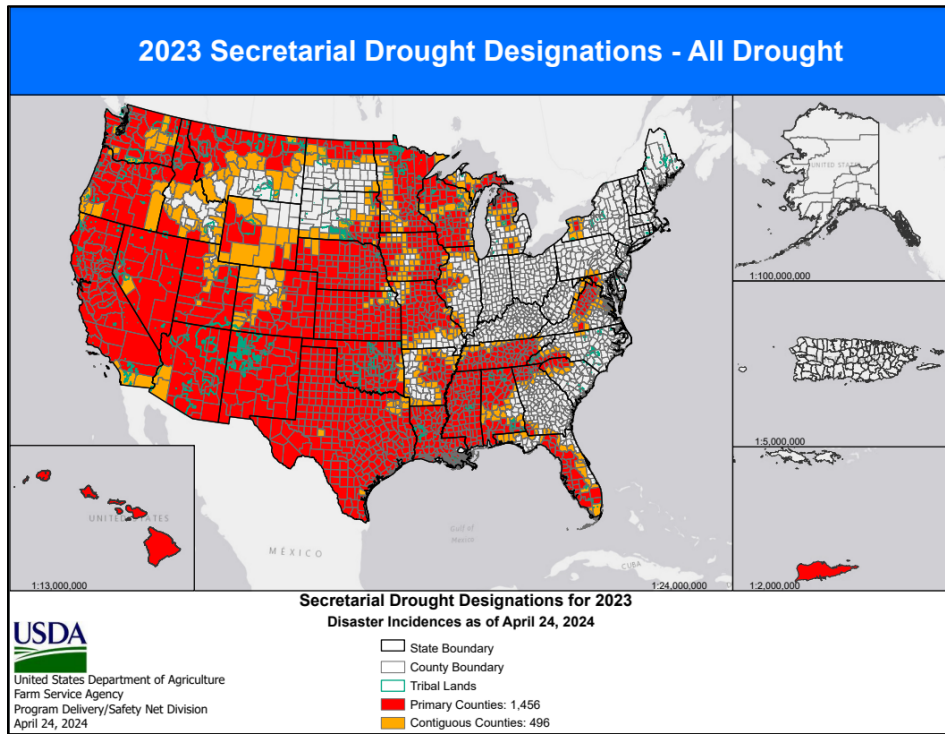
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

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](#)

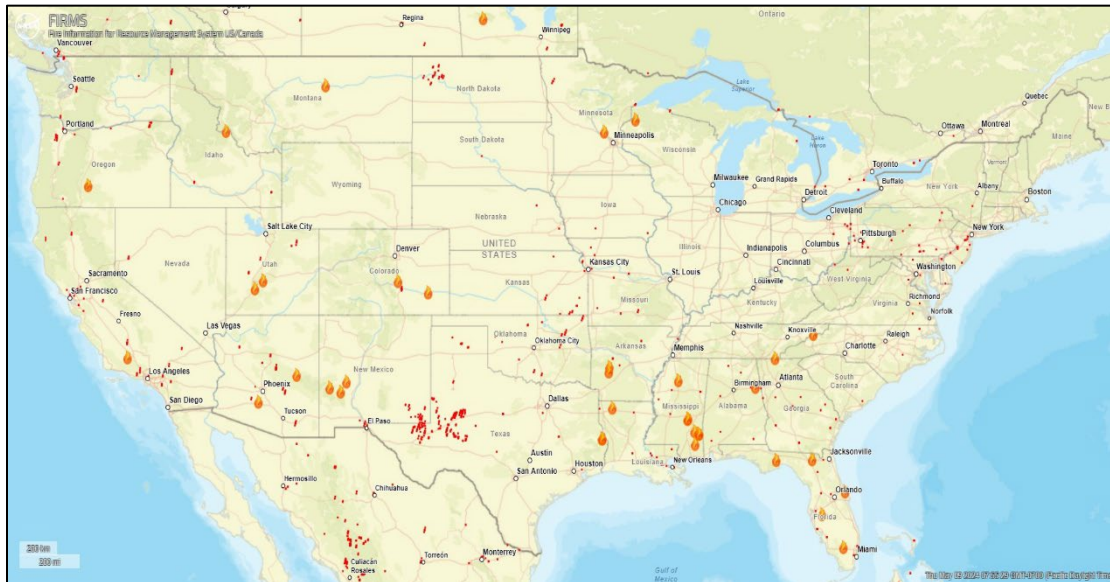
USDA Secretarial [Drought Designations](#)

Source: USDA Farm Service Agency



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

Source: NASA/USDA Forest Service



Current active wildfires larger than 1,000 acres in size

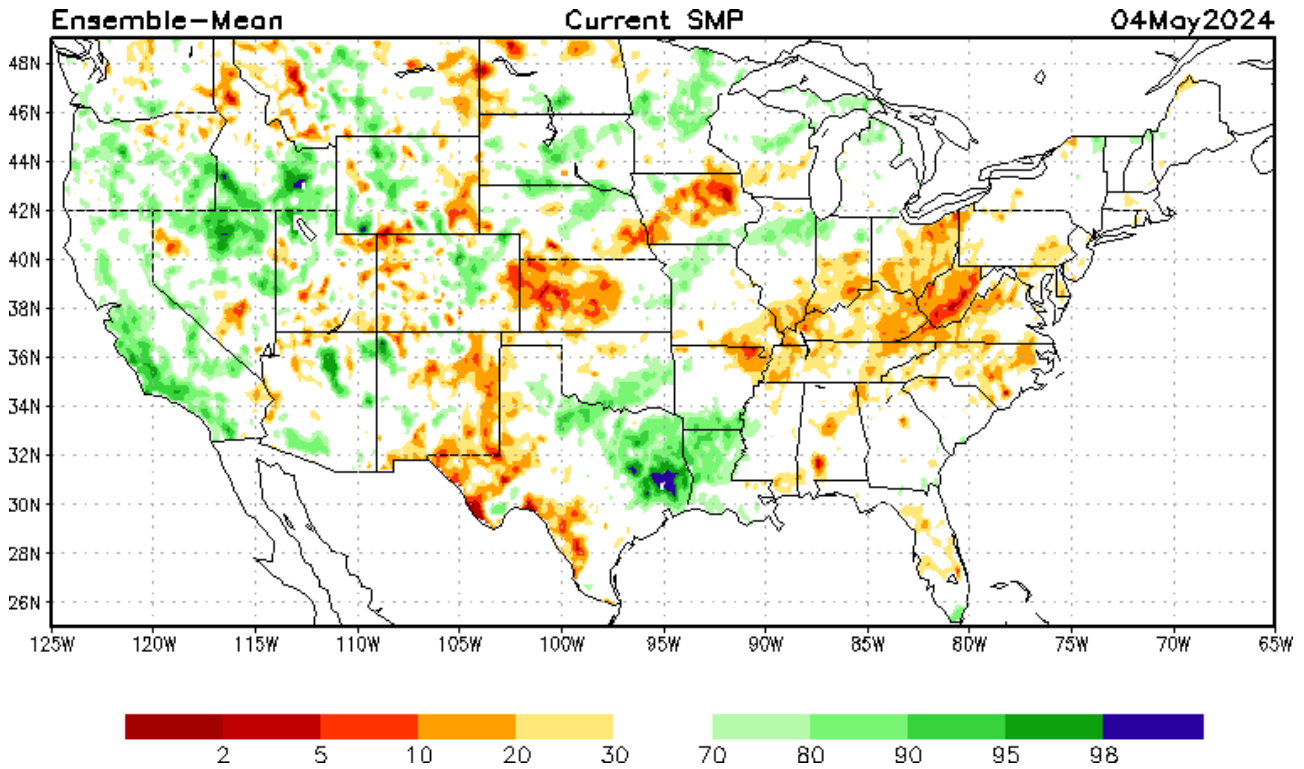
Highlighted Wildfire Resources

- [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

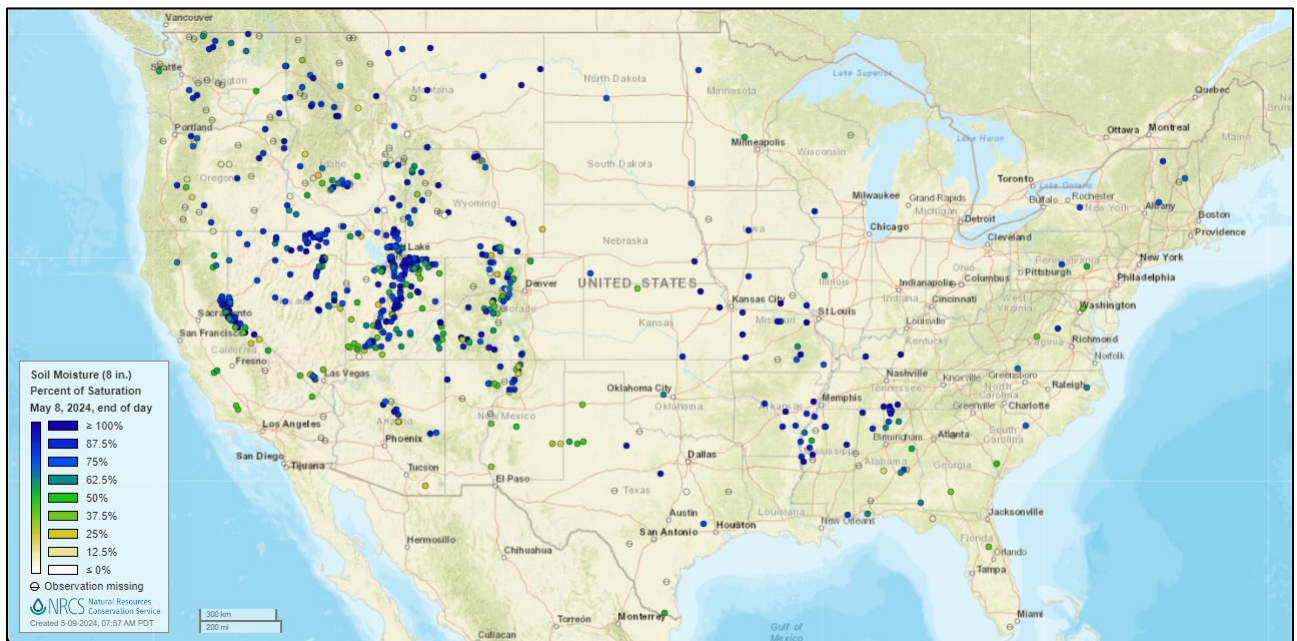


[Modeled soil moisture percentiles](#) as of May 04, 2024

Soil Moisture Percent of Saturation

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

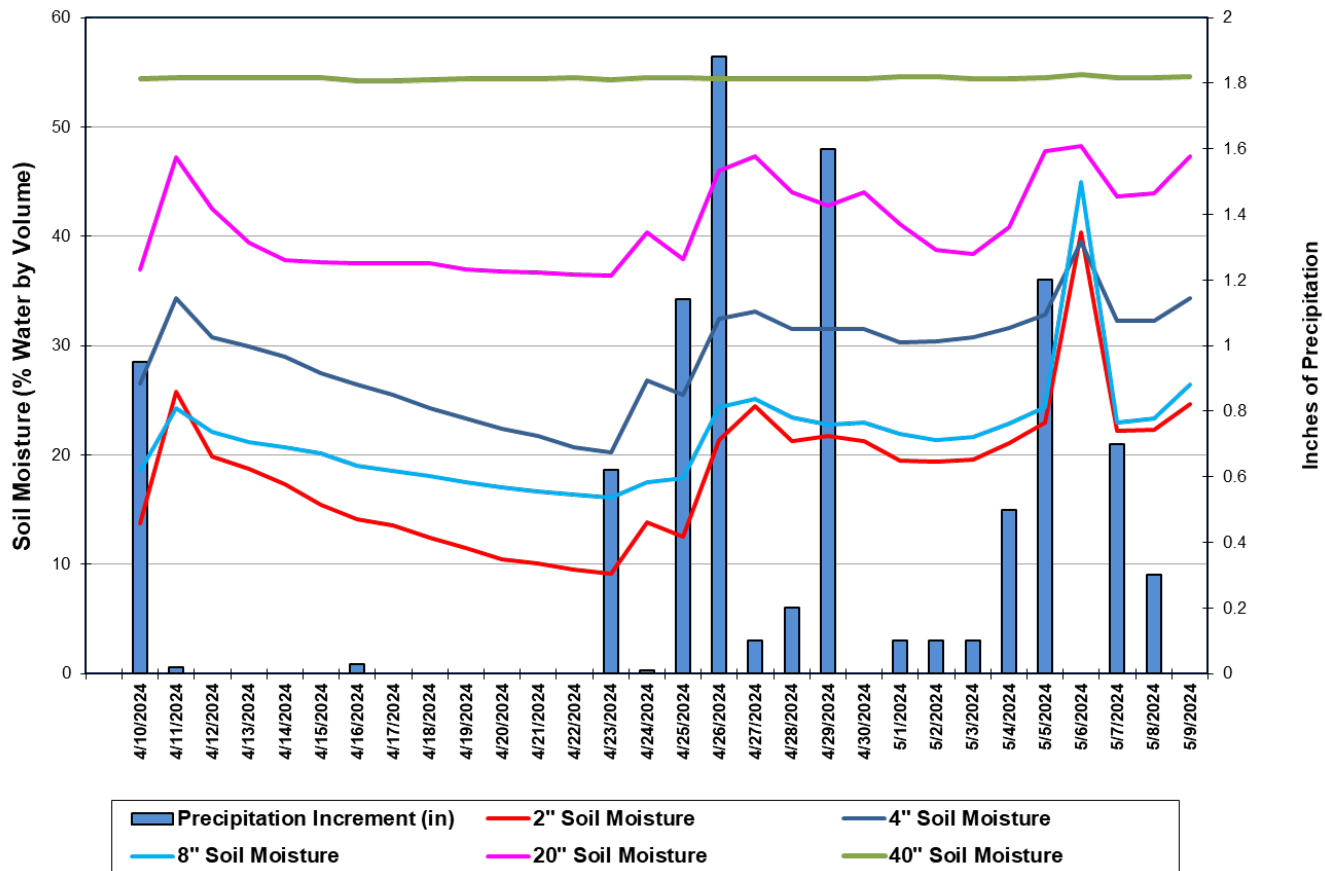
[U.S. soil moisture map at 8-inch depth:](#)



Soil Moisture

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

**Sinkin Forest, Missouri (SCAN site 2231)
Daily Mean Soil Moisture vs. Daily Precipitation**



This chart shows the precipitation and soil moisture for the last 30 days at the [Sinkin Forest](#) SCAN site in Missouri. Soil sensors at all depths except the -40-inch sensor indicate a general decrease in soil moisture at the site between April 12-23. Storm systems moved through the area between April 23 and May 8, depositing 8.55 inches of precipitation in that span, with pronounced fluctuation in soil moisture indicated at all sensor depths except the -40-inch sensor. Total precipitation for the 30-day period was 9.55 inches.

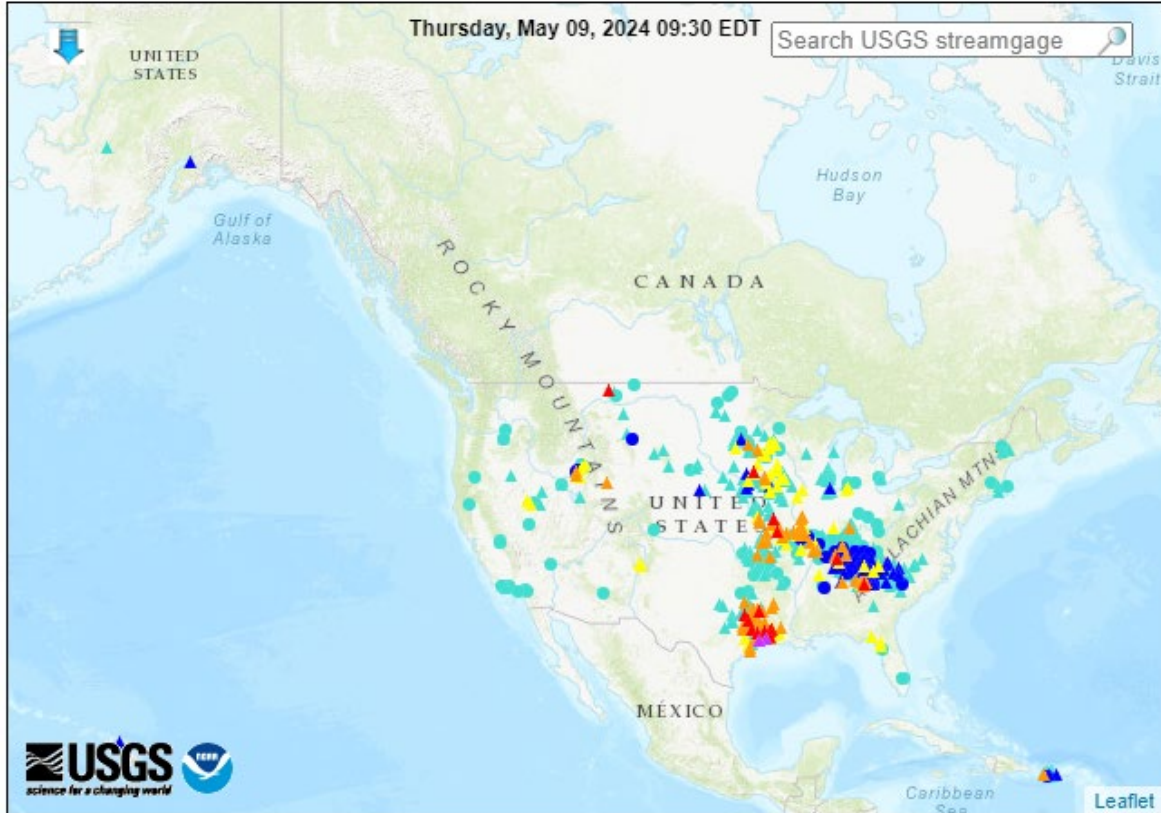
Soil Moisture Data Portals

- [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 (89 in floods [major: 3, moderate: 15, minor: 71], 56 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

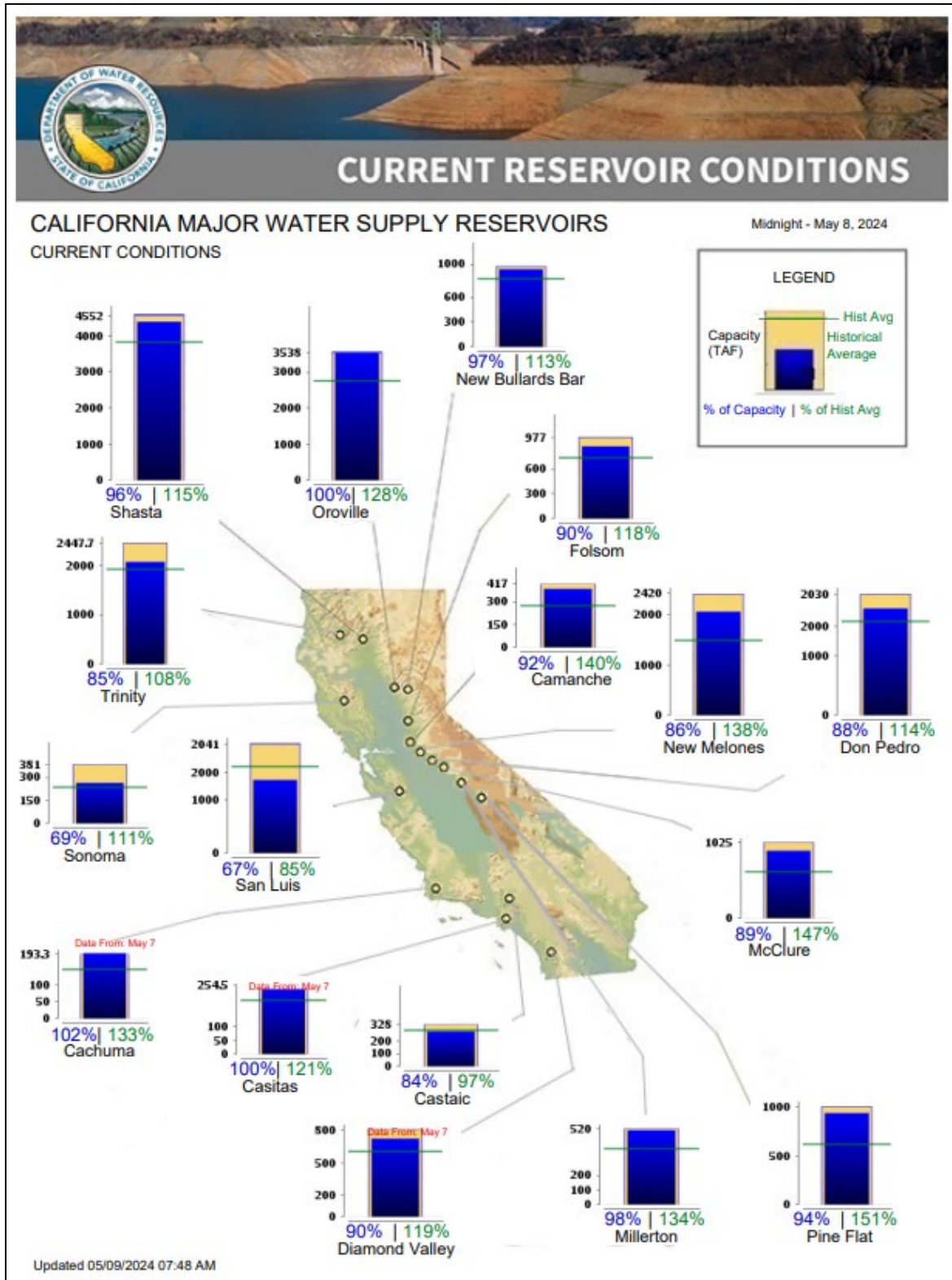
Hydromet Teacup Reservoir Depictions

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 May 09, 2024: “The threat of additional severe thunderstorms will shift into the South later today and toward the southern Atlantic Coast by Friday. Subsequently, much of the country will experience a brief period of tranquil weather, with warmth arriving in the West and cool conditions overspreading much of the central and eastern U.S. During the weekend, showers will develop across central and southern sections of the Rockies and High Plains, with rain becoming heavier by Monday while spreading into the middle and lower Mississippi Valley and the Gulf Coast States. Five-day rainfall totals should reach 2 to 4 inches or more along and near an axis stretching from eastern Texas to southern Georgia. In contrast, little or no rain will fall during the next 5 days across southern Florida, the north-central U.S., and areas west of the Rockies. The NWS 6- to 10-day outlook for May 14 – 18 calls for the likelihood of near- or above-normal temperatures and precipitation nearly nationwide. Cooler-than-normal conditions will be confined to parts of western Washington, while drier-than-normal weather should be limited to portions of western Texas and an area stretching from northern California and the Pacific Northwest to the northern Rockies.”

Weather Hazards Outlook: [May 11 – 15, 2024](#)

Source: NOAA Weather Prediction Center















U.S. Day 3-7 Hazards Outlook

[About the Hazards Outlook](#)

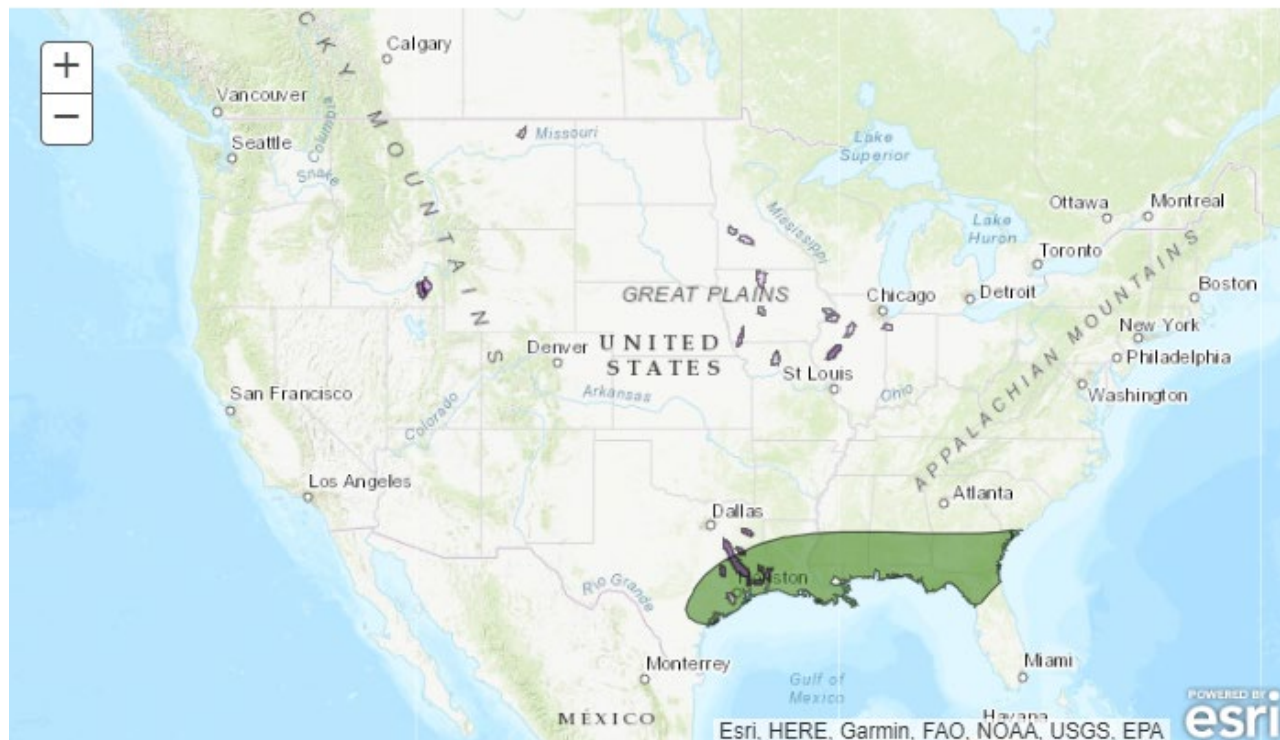
Created May 08, 2024

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

Precipitation	<input checked="" type="checkbox"/>
Temperature	<input checked="" type="checkbox"/>
Wildfires	<input checked="" type="checkbox"/>
Soils	<input type="checkbox"/>

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 May 11, 2024 - May 15, 2024

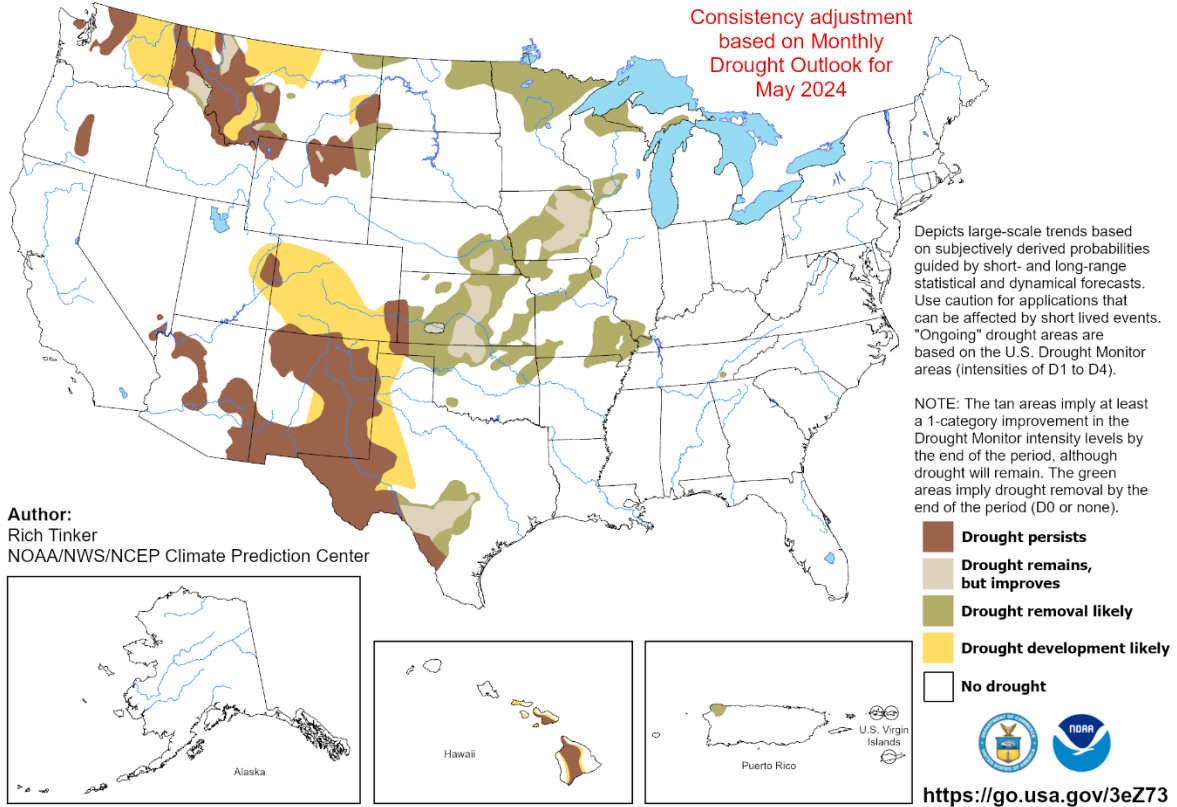


Seasonal Drought Outlook: [May 01 – July 31, 2024](#)

Source: National Weather Service

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

Valid for May 1 - July 31, 2024
Released April 30, 2024

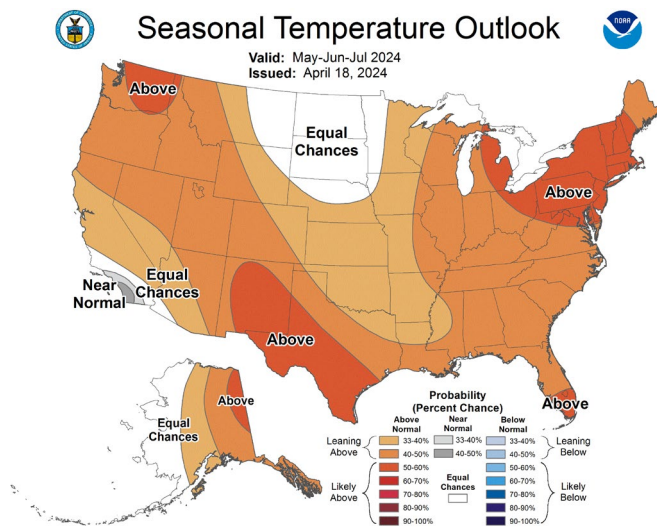
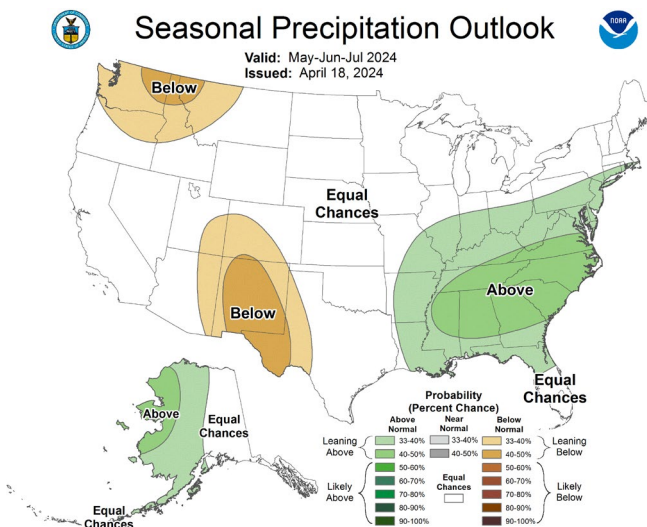


Climate Prediction Center Three-month Outlook

Source: National Weather Service

Precipitation

Temperature



[May-June-July 2024 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](#).