



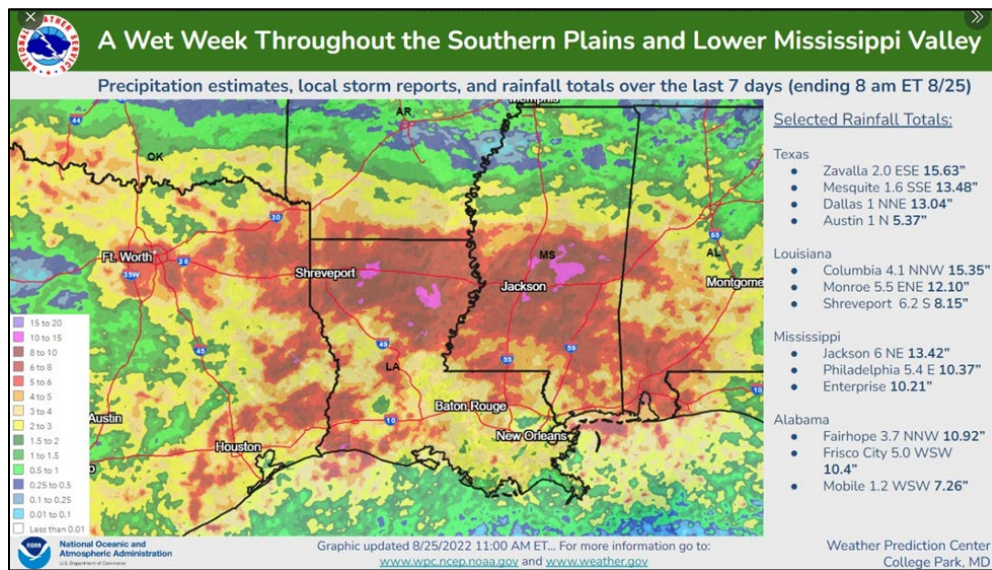
Water and Climate Update

August 25, 2022

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.

Precipitation	2	Other Climatic and Water Supply Indicators	12
Temperature	6	More Information	18
Drought	8		

Record-breaking Rainfall and Flooding Hits the South



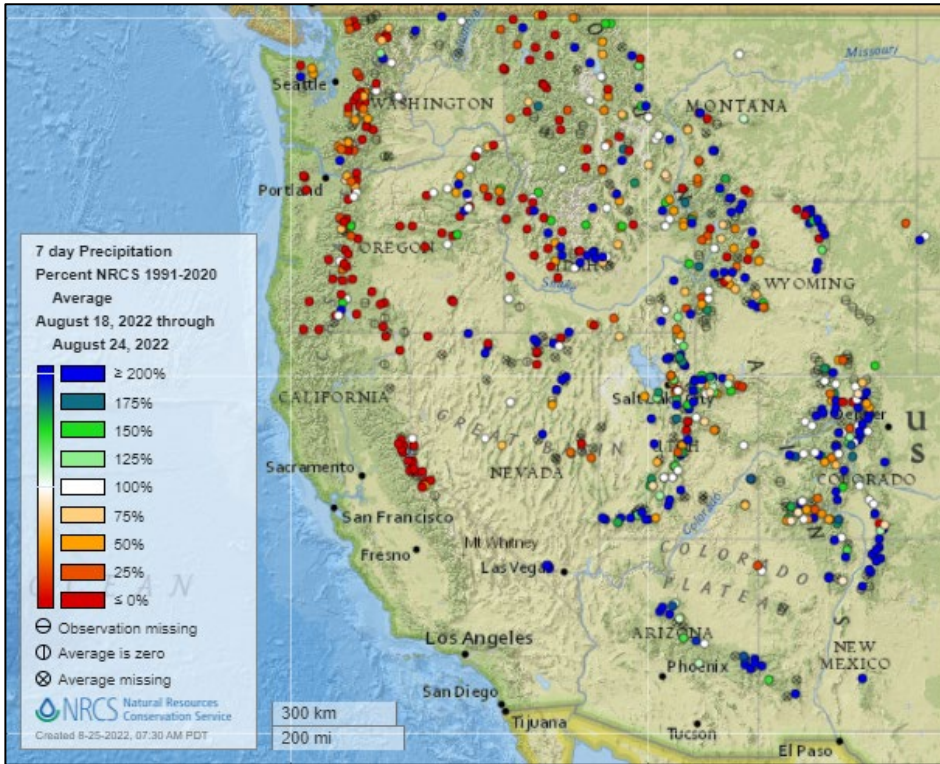
Record-breaking amounts of rain fell across the Southern Plains and Lower Mississippi River Valley this week, topping five inches across a wide area. The event set a record for the Dallas-Fort Worth (DFW) Metropolitan Area, with records dating back as far as 1899. The DFW International Airport reported receiving more than nine inches in 24 hours, surpassing the previous record. The highest reported total from the event was 15.63 inches recorded at the Zavalla 2.0 ESE National Weather Service station in Texas. While this rain provided much needed drought relief for some areas, the excessive rain in some parts produced extreme flooding. Over 9 million people were under flood watch across the South on August 23. Flooding caused hundreds of calls for water rescues, damaged homes and businesses, and closed roads.

Related:

- [Heavy rain, flooding target Louisiana, Mississippi as Dallas reels from downpours](#) – ABC News
- [A day after North Texas' record-breaking flood, officials, residents survey the damage](#) – The Dallas Morning News (TX)
- [Weather whiplash: Summer lurches from drought to flood](#) – AP News
- [DFW weather: Flooding rains have ended, but lingering high water remains](#) – KHOU11 (TX)
- [North Texas hit by 1-in-1,000-year flooding](#) – Axios
- [Record Deluge Floods North Texas Roads, Rain Totals Nearing 15 Inches](#) – NBC DFW (TX)
- [At least one dead in Dallas deluge that saw more than 15 inches in 24 hours](#) – NBC News
- [Flood Videos, Pictures Show Mississippi Streets Submerged](#) – Newsweek
- [Severity of flash flooding in Dallas area surprises residents as rescue crews respond to hundreds of calls for help](#) - CNN

Precipitation

Last 7 Days, NRCS SNOTEL Network

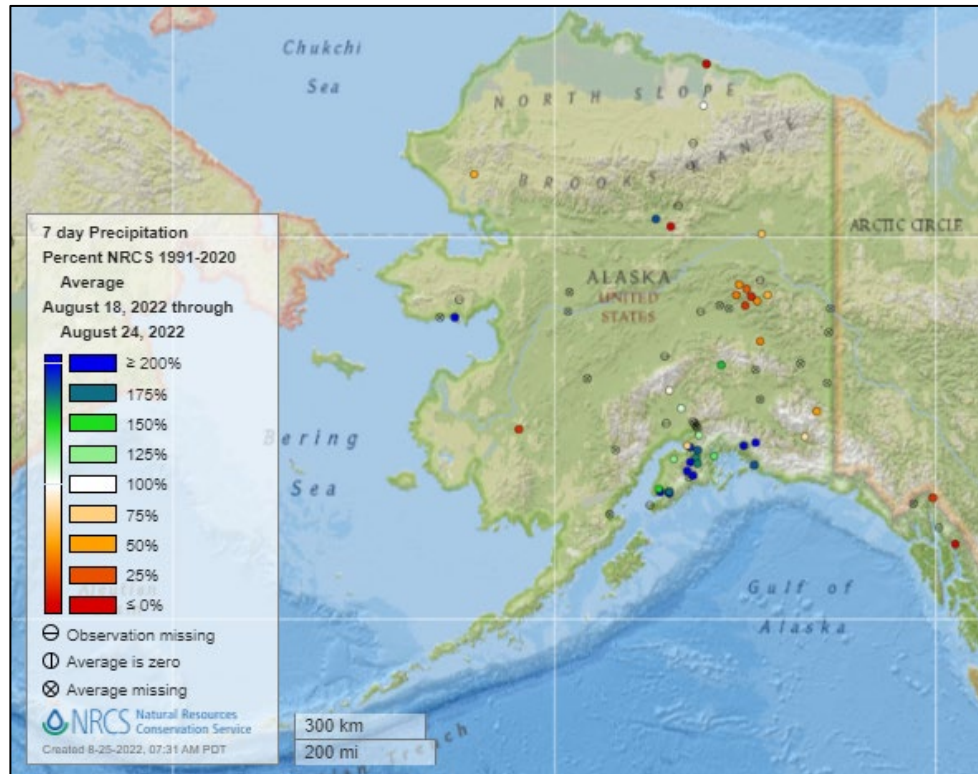


[7-day precipitation percent of average map](#)

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](#)



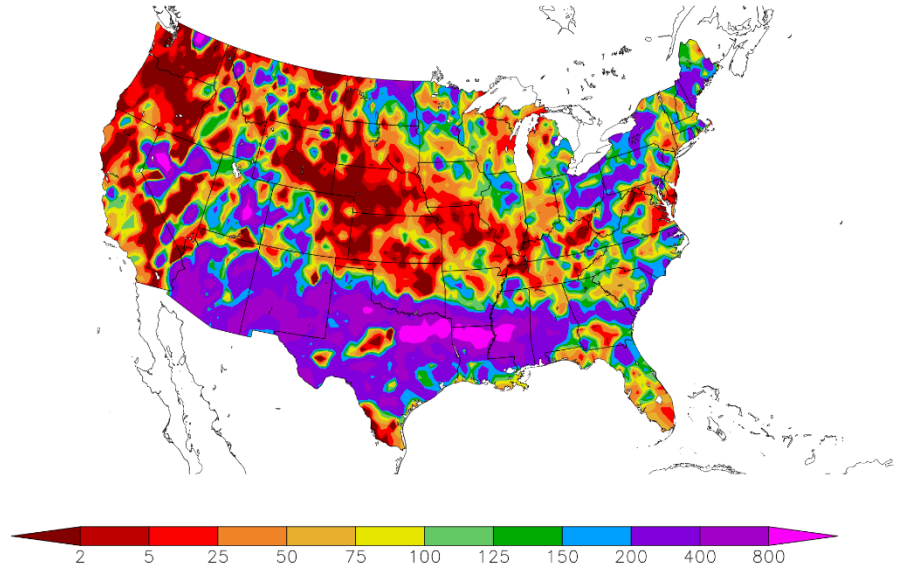
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
8/18/2022 – 8/24/2022



Generated 8/25/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

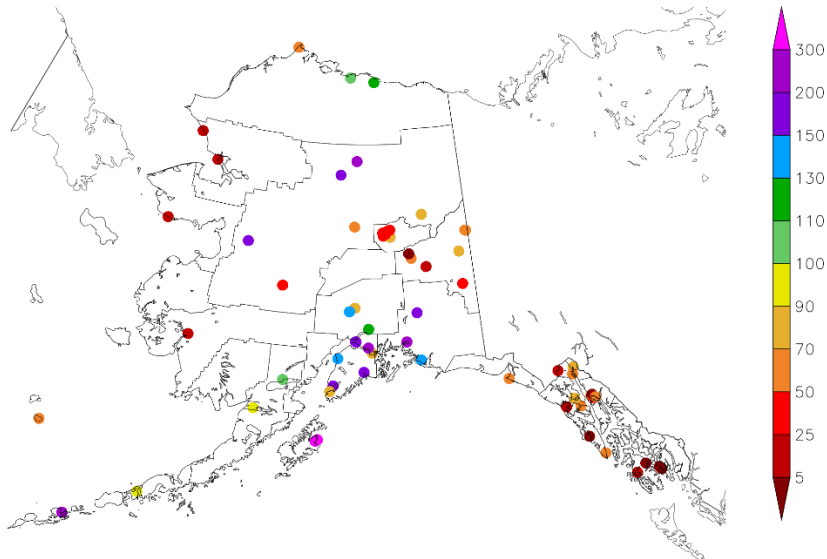
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
8/18/2022 – 8/24/2022



Generated 8/25/2022 at HPRCC using provisional data.

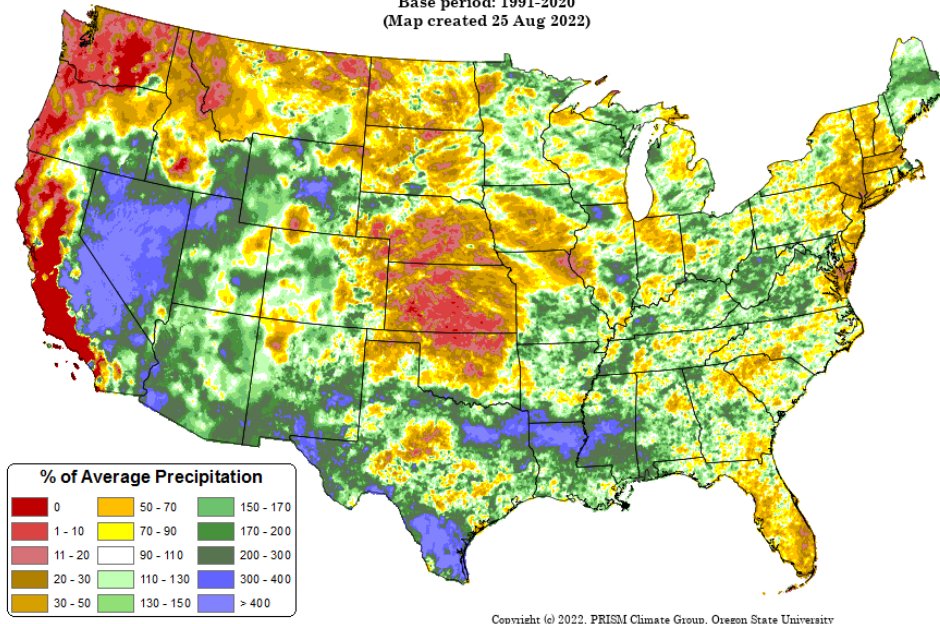
NOAA Regional Climate Centers

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

Source: PRISM

Total Precipitation Anomaly: 01 Aug 2022 - 24 Aug 2022
Period ending 7 AM EST 24 Aug 2022
Base period: 1991-2020
(Map created 25 Aug 2022)

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

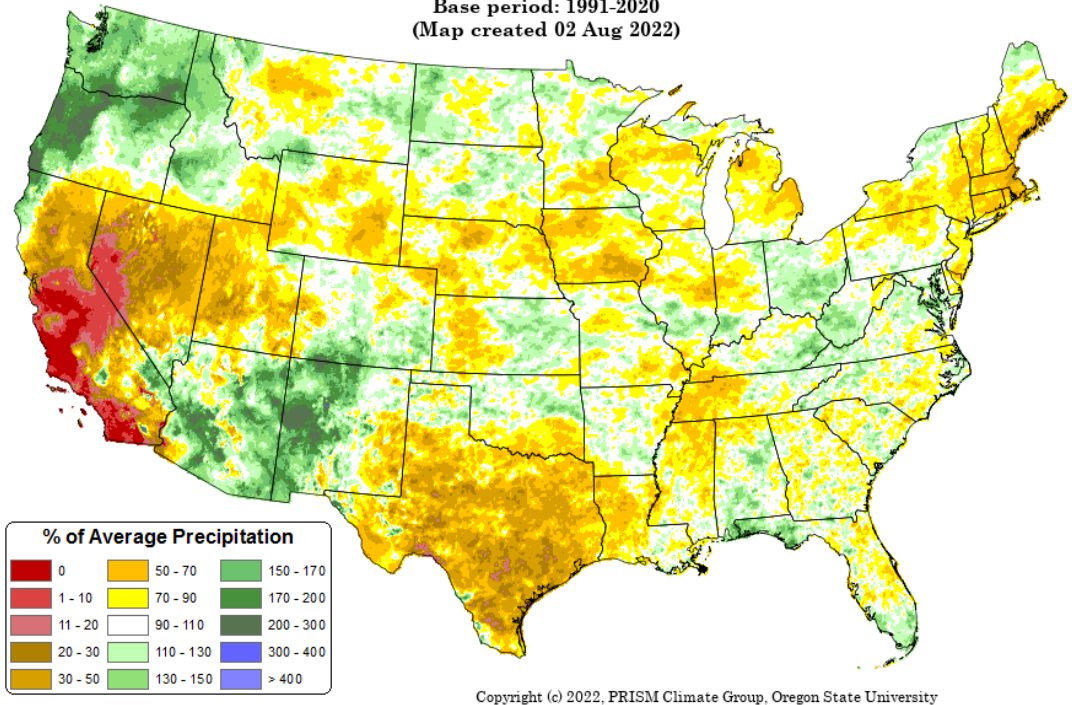


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

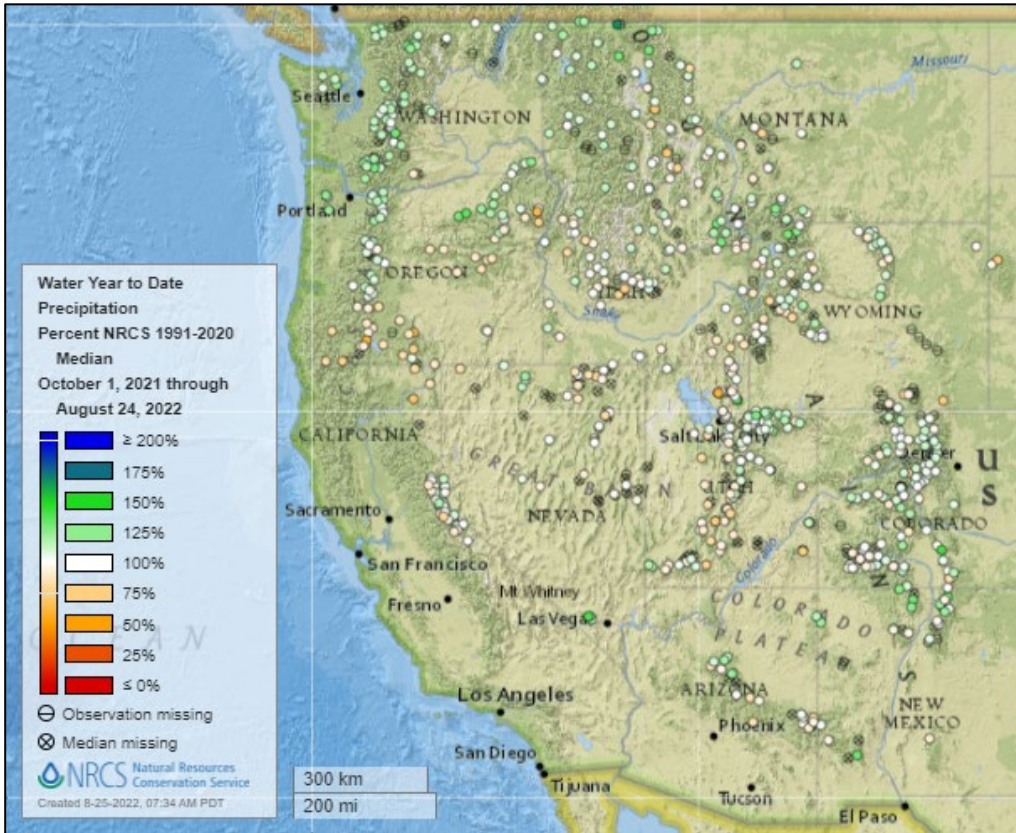
Source: PRISM

[May through July 2022 precipitation anomaly map](#)

Total Precipitation Anomaly: May 2022 - Jul 2022
Period ending 7 AM EST 31 Jul 2022
Base period: 1991-2020
(Map created 02 Aug 2022)



Water Year-to-Date, NRCS SNOTEL Network

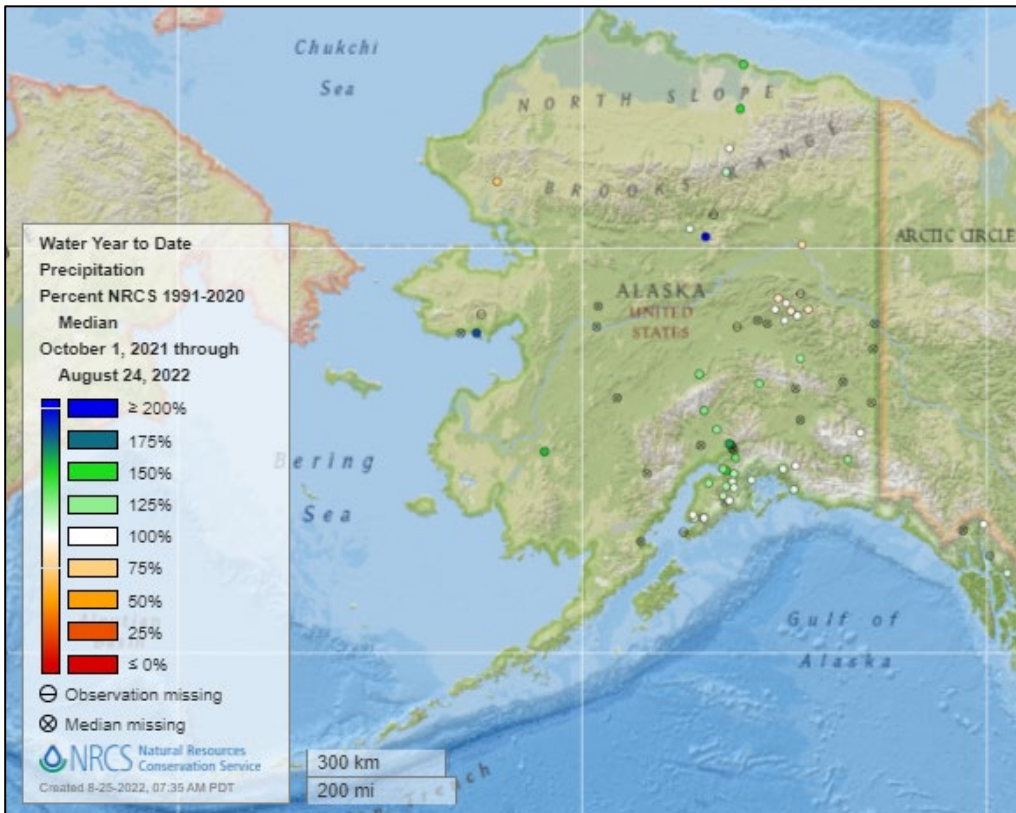


[2022 water year-to-date precipitation percent of median map](#)

See also:

[2022 water year-to-date precipitation percent of average map](#)

[2022 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2022 water year-to-date precipitation percent of median map](#)

See also:

[Alaska 2022 water year-to-date precipitation percent of average map](#)

[Alaska 2022 water year-to-date precipitation values \(inches\) map](#)

Temperature

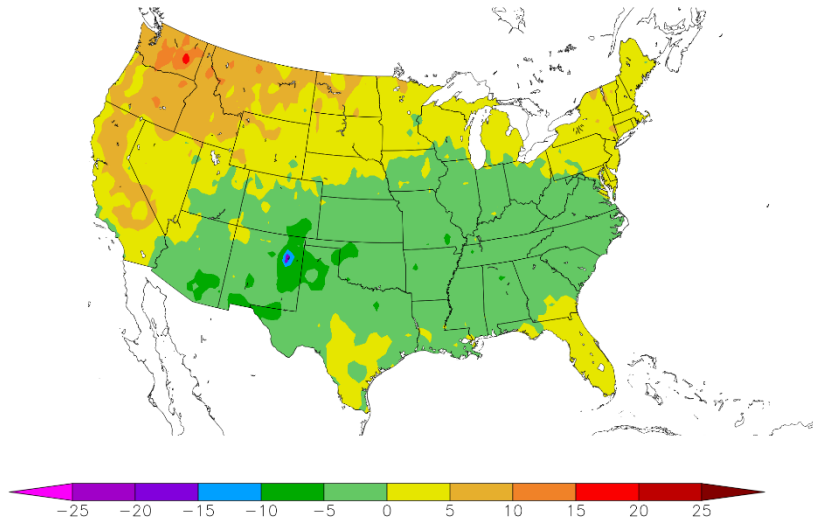
Last 7 Days, National Weather Service (NWS) Networks

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)
8/18/2022 – 8/24/2022



Generated 8/25/2022 at IPRCC using provisional data.

NOAA Regional Climate Centers

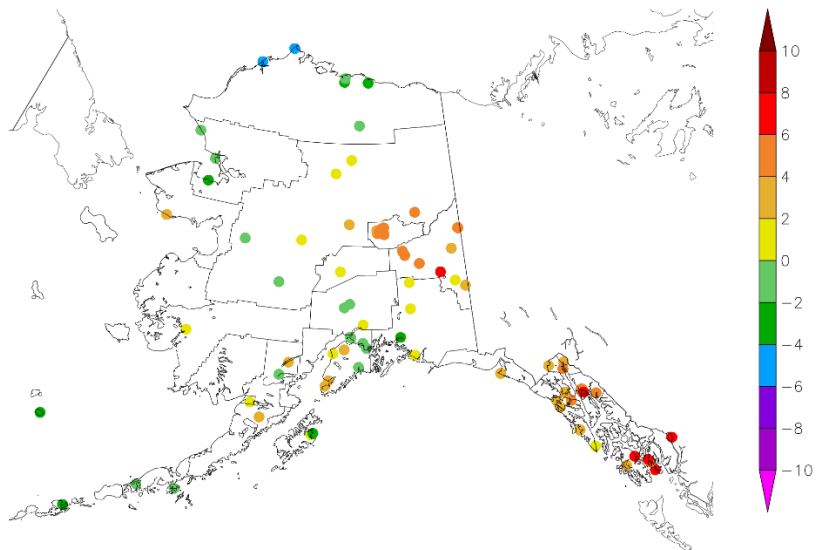
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
8/18/2022 – 8/24/2022



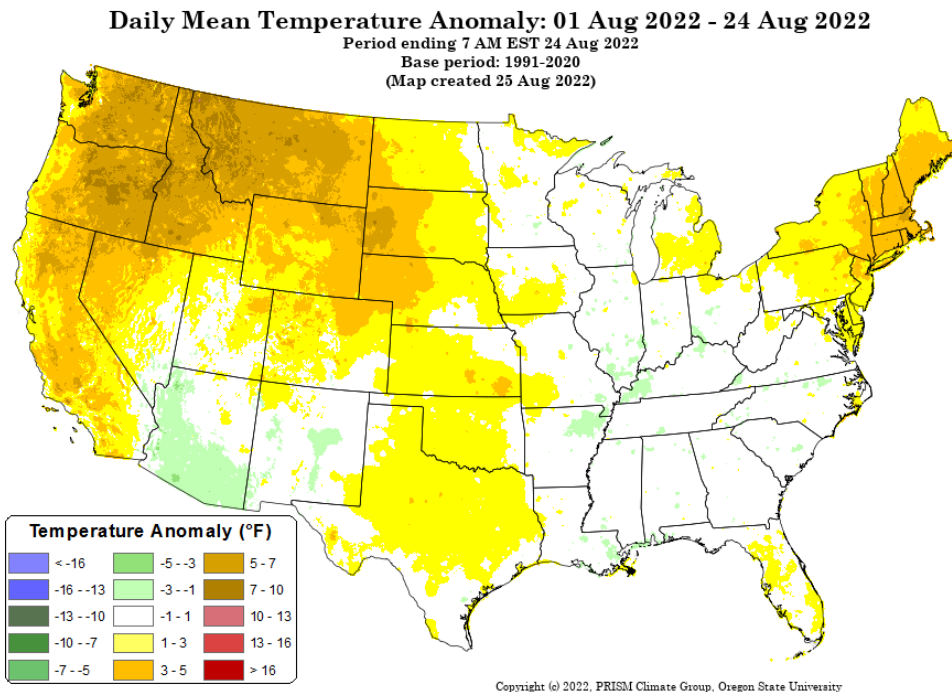
Generated 8/25/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

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

Source: PRISM

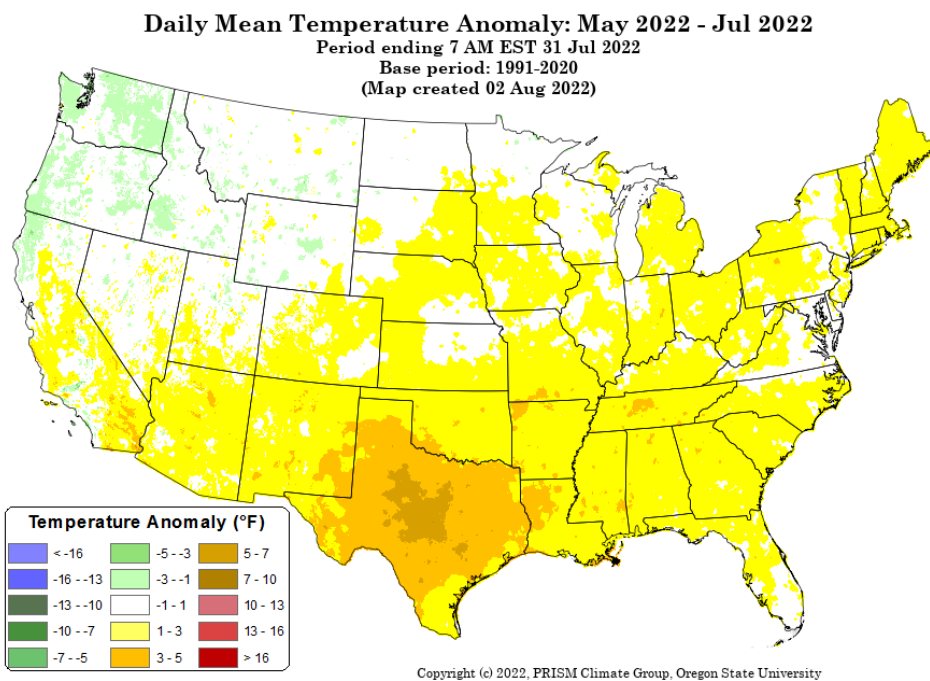
[Month-to-date national daily mean temperature anomaly map](#)



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

Source: PRISM

[May through July 2022 daily mean temperature anomaly map](#)



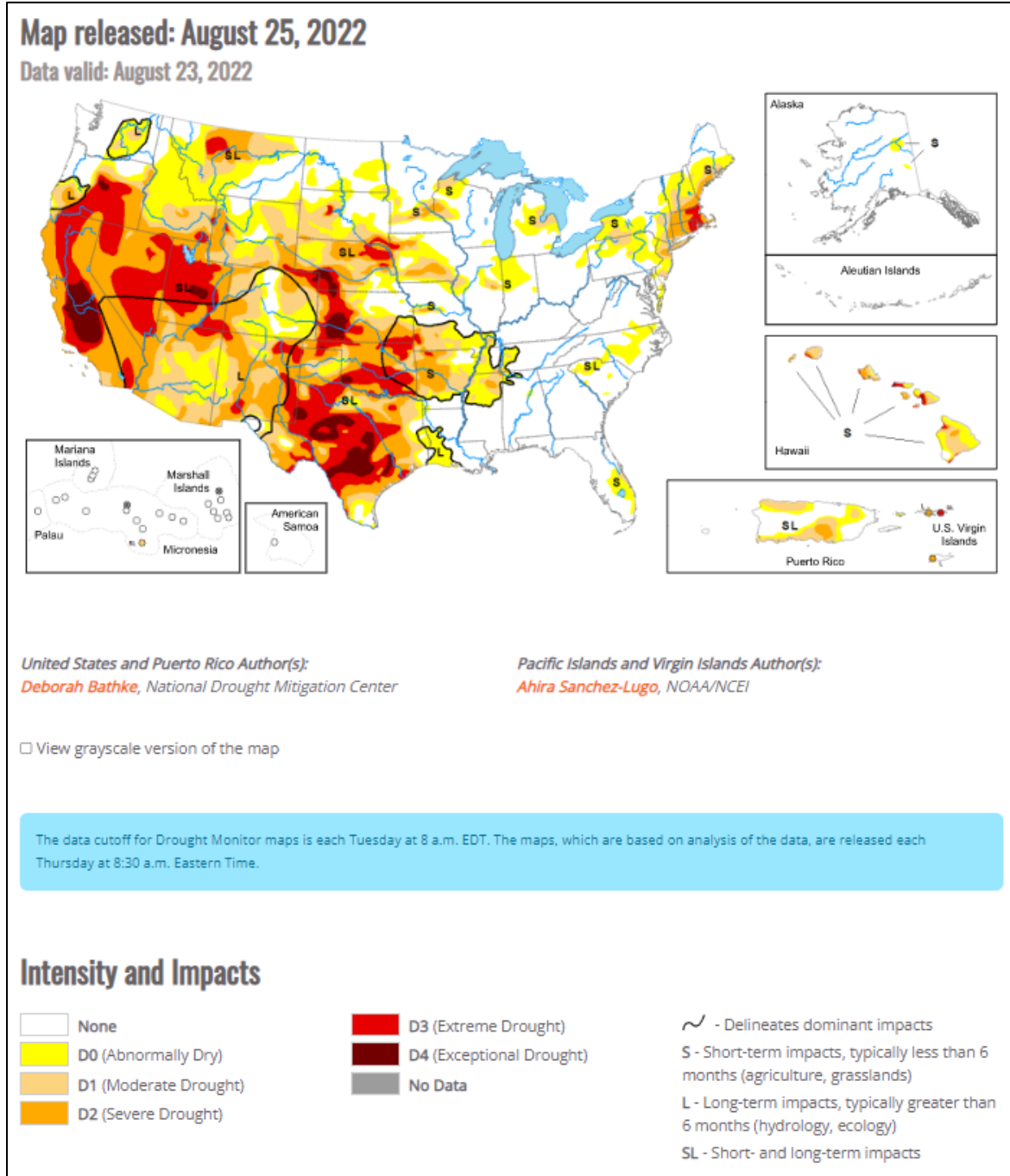
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), August 23, 2022

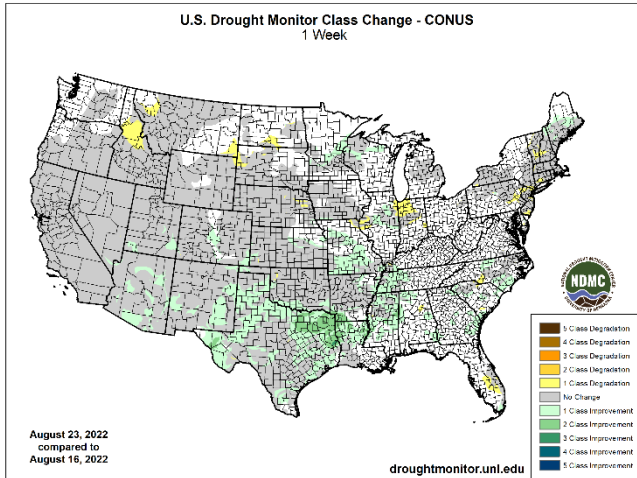
Source: National Drought Mitigation Center

“Record-breaking rainfall led to aggressive improvements in drought conditions across parts of the South. The heavy rainfall and flooding led to communications outages at the National Weather Service office leaving climatologists without access to important data and tools needed to fully analyze the effect of this event. The magnitude of this event meant prioritizing improvements on this week’s map in these areas and in the Southwest, where the Monsoon season remains active. Drought expanded in the Northwest was warm, dry conditions continued across the region. The Midwest, Southeast, and Northeast saw a mix of improvements and degradations.”

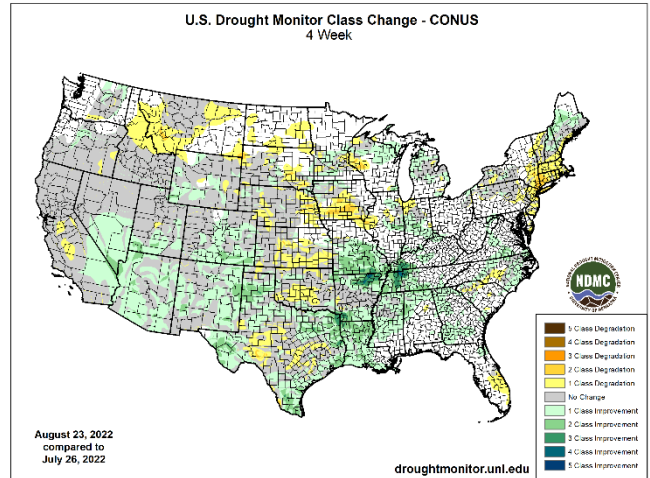
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

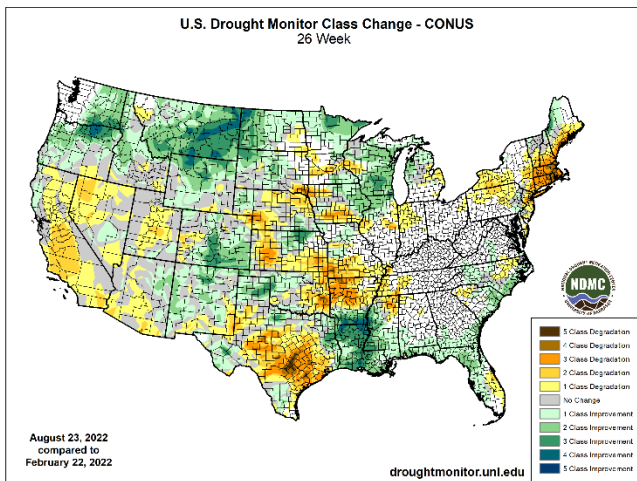
1 Week



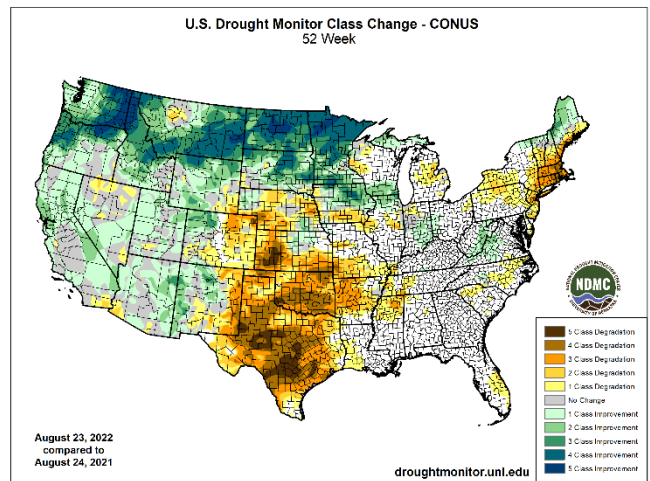
1 Month



6 Months



1 Year



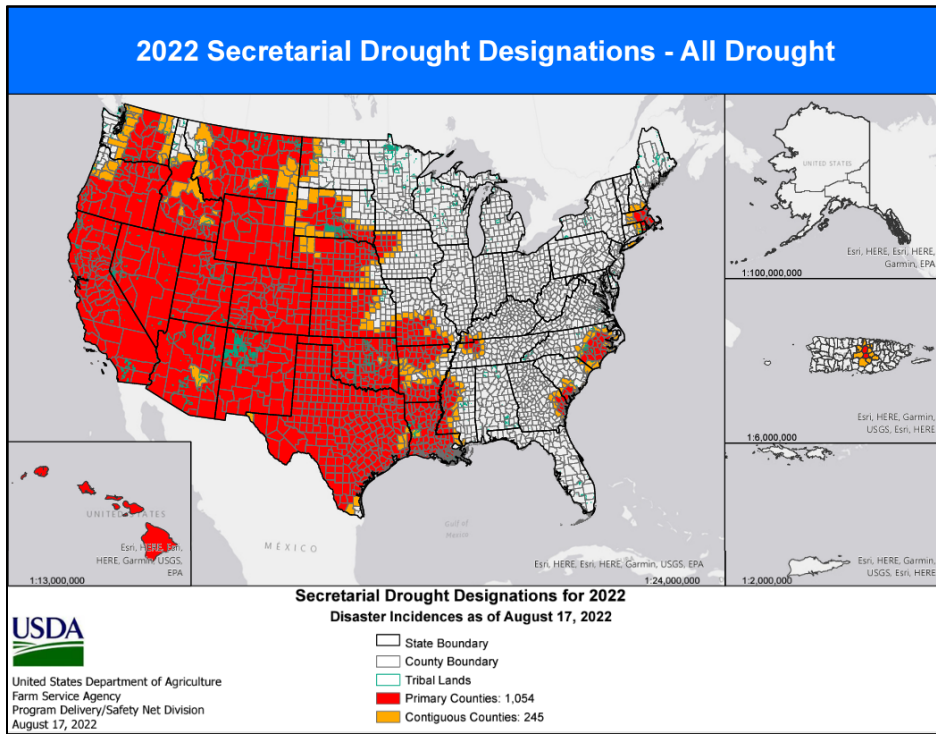
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

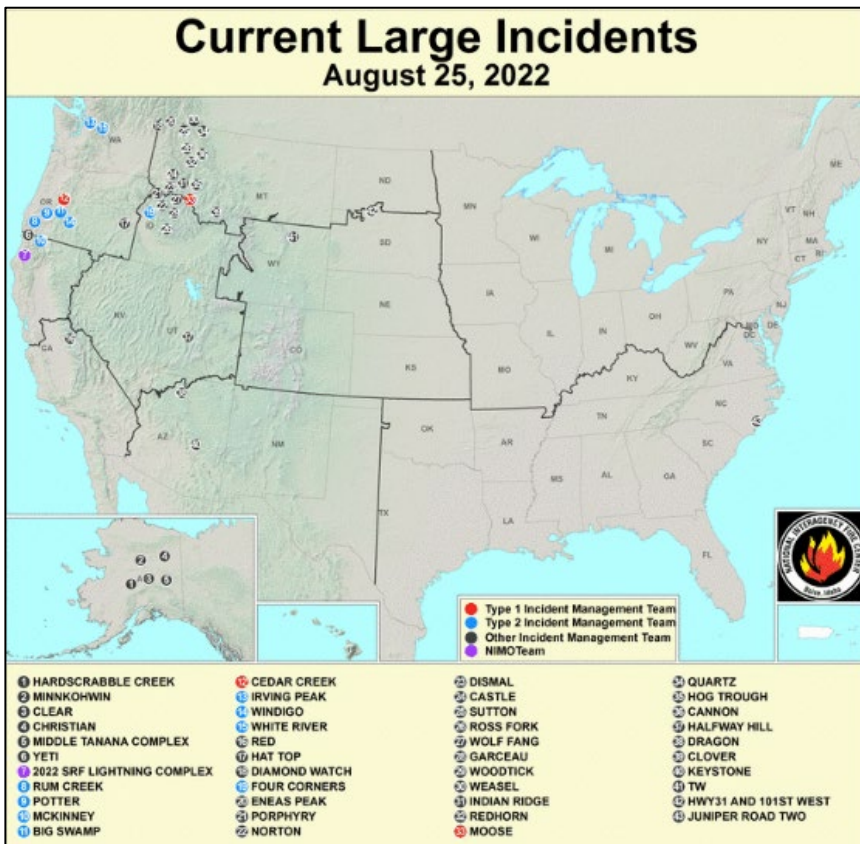
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

USDA Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



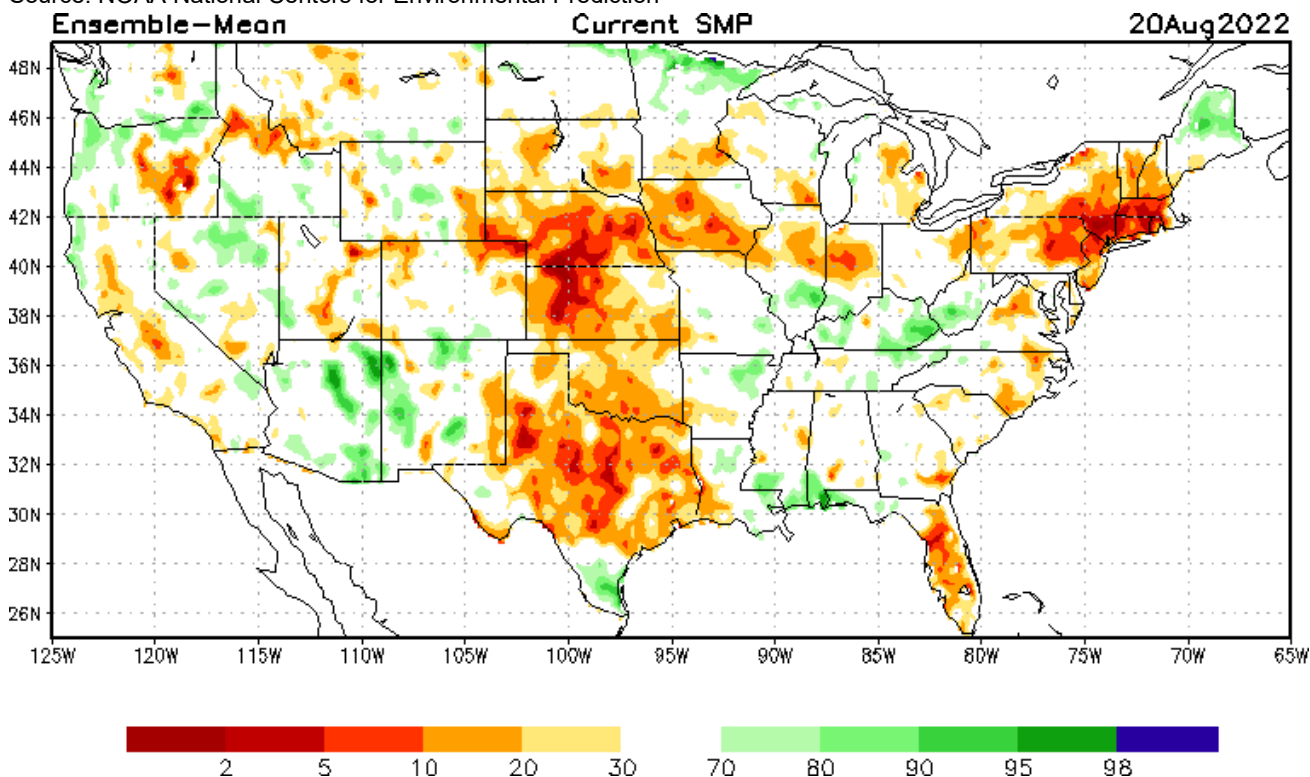
**Highlighted
Wildfire
Resources**

- [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

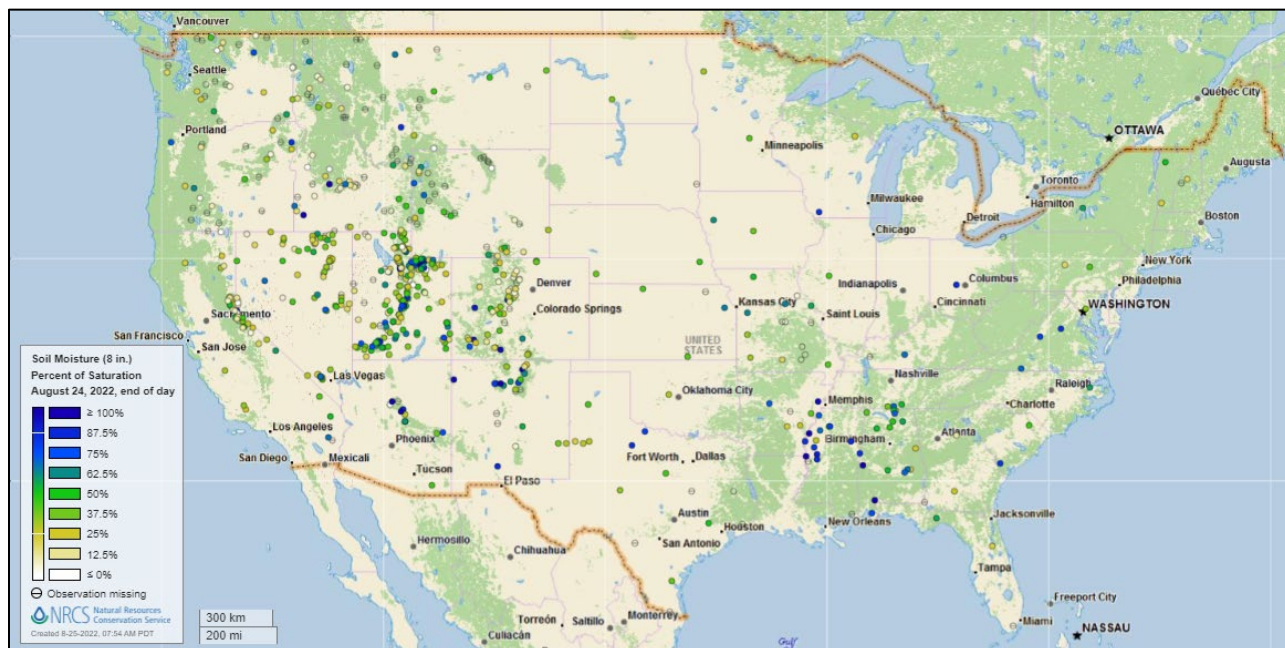


[Modeled soil moisture percentiles](#) as of August 20, 2022

Soil Moisture Percent of Saturation

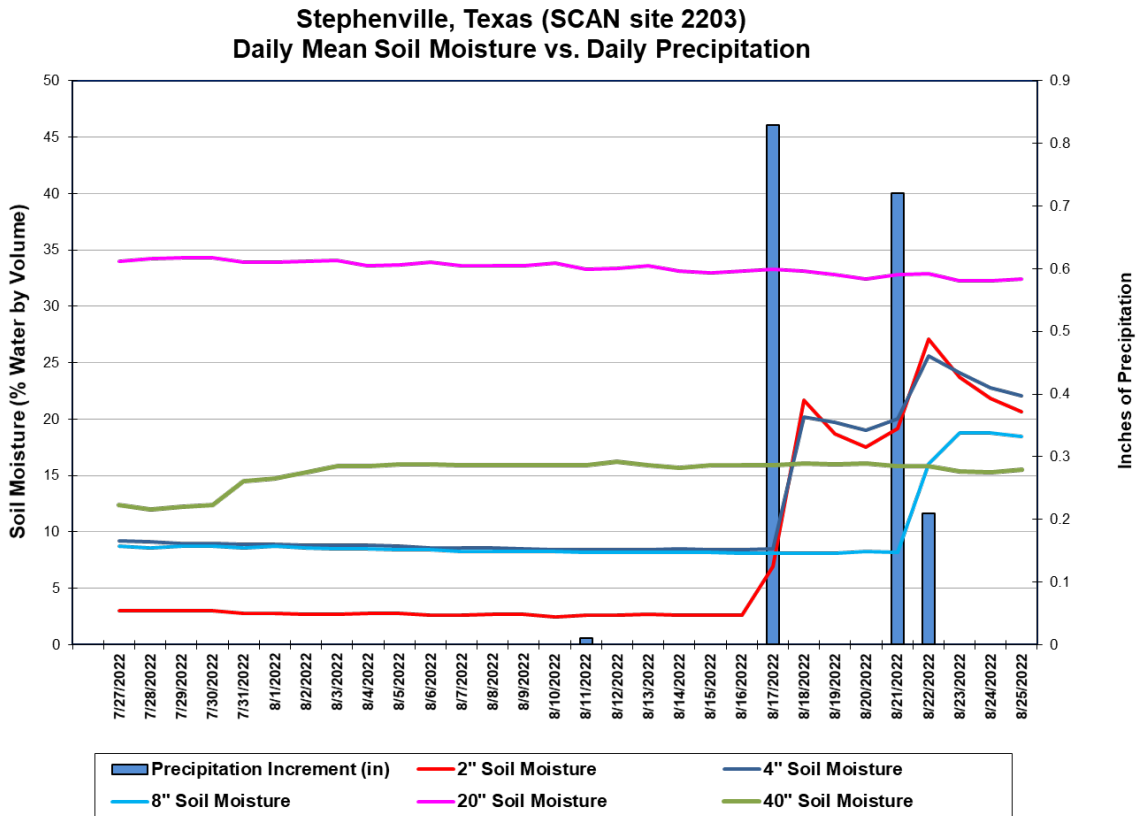
Source: NRCS SNOTEL and [Soil Climate Analysis Network](#) (SCAN)

[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 [Stephenville](#) SCAN site in Texas. Precipitation events caused an increase in soil moisture levels at the -2, -4, and -8-inch soil sensor depths. The deeper sensors showed little change over the period. Total precipitation received during the period was 1.77 inches.

Soil Moisture Data Portals

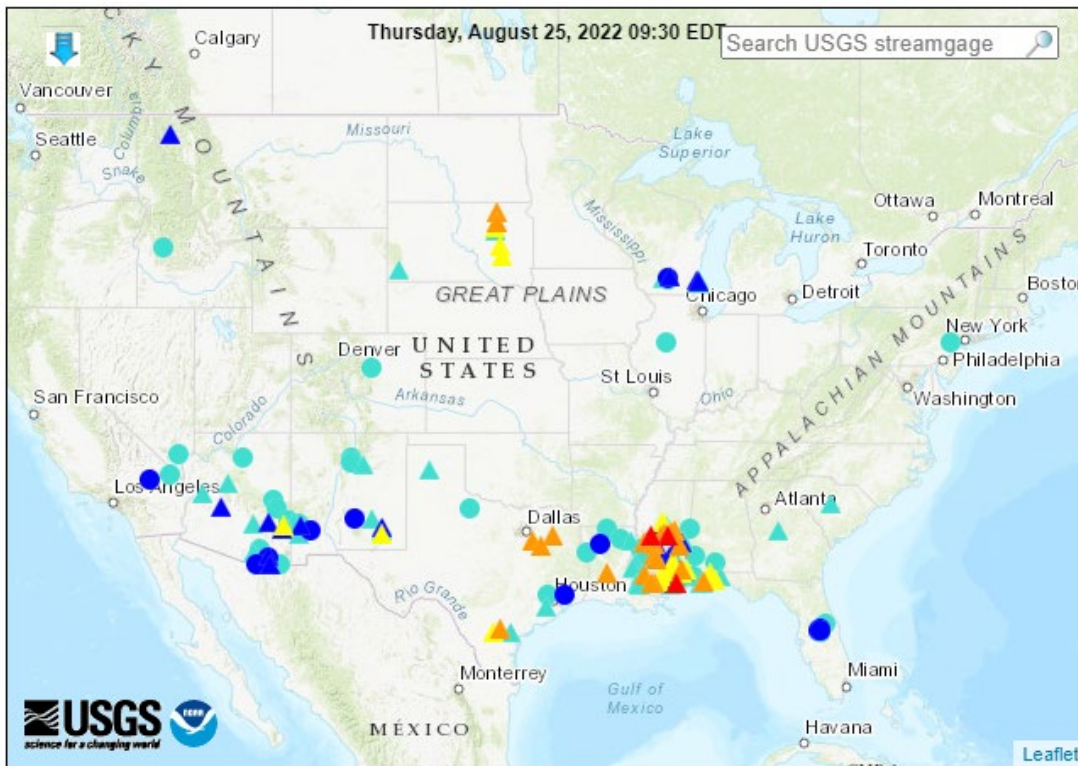
- [USCRN Soil Moisture](#)
- [National Soil Moisture Network](#)
- [NOAA Climate Prediction Center Soil Moisture](#)
- [NASA Grace](#)

Streamflow, Drought, Flood, and Runoff

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

Map of flood and high flow conditions

(27 in floods [moderate: 3, minor: 24], 18 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

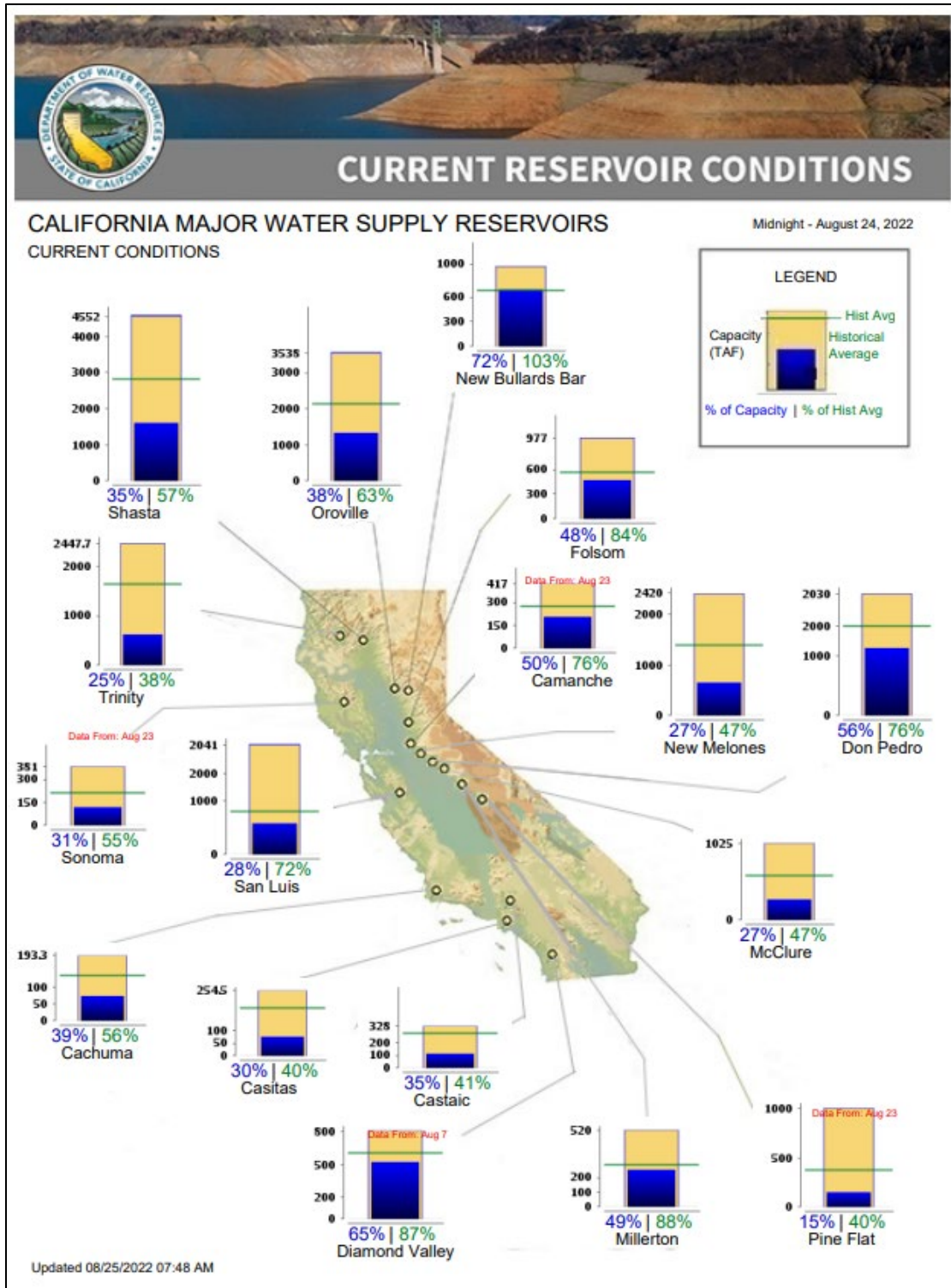
Hydromet Teacup Reservoir Depictions

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, August 25, 2022: “Late-summer warmth will cover much of the country during the next several days, with weekend temperatures topping 90°F as far north as the Dakotas. By early next week, temperatures near or above 90°F will cover the central and eastern U.S., except in portions of the Great Lakes and Northeastern States. Meanwhile, occasional showers will occur nearly nationwide, although rainfall amounts will generally be light. In the South, however, 5-day rainfall totals could reach 2 to 4 inches or more from the central Gulf Coast region to the southern Atlantic Coast. Areas expected to receive little or no rain during the next 5 days include the mid-Atlantic, portions of the central and southern Plains, and the Far West. The NWS 6- to 10-day outlook for August 30 – September 3 calls for the likelihood of near- or above-normal temperatures nationwide, except for cooler-than-normal conditions in portions of the south-central U.S. Meanwhile, near- or below-normal rainfall across much of the northern and western U.S. should contrast with wetter-than-normal weather in western Washington, as well as most of the South and East.”

Weather Hazards Outlook: August 27 – 31, 2022

Source: NOAA Weather Prediction Center

U.S. Day 3-7 Hazards Outlook

About the Hazards Outlook

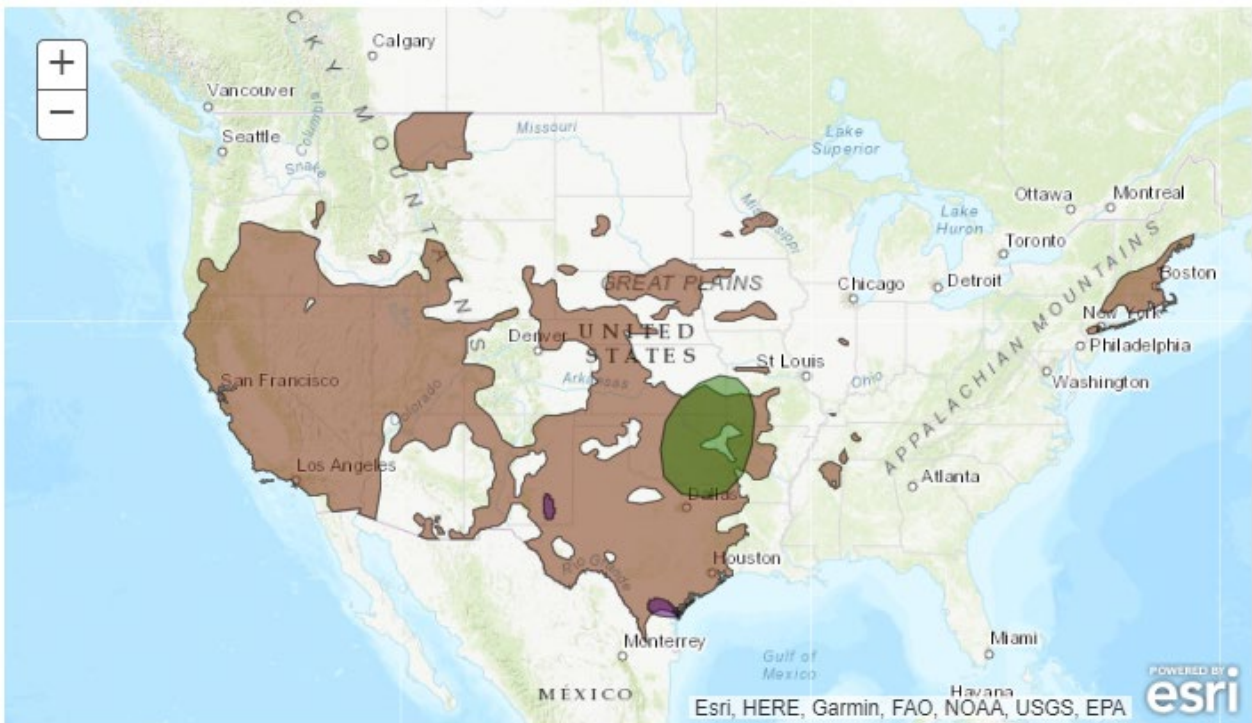
Created August 24, 2022

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"/>
Soils	<input checked="" type="checkbox"/>

Legend			
	Flooding Likely		Excessive Heat
	Flooding Occurring or Imminent		High Winds
	Flooding Possible		Much Above Normal Temperatures
	Freezing Rain		Much Below Normal Temperatures
	Heavy Ice		Significant Waves
	Heavy Precipitation		Enhanced Wildfire Risk
	Heavy Rain		Severe Drought
	Heavy Snow		
	Severe Weather		

Valid August 27, 2022 - August 31, 2022

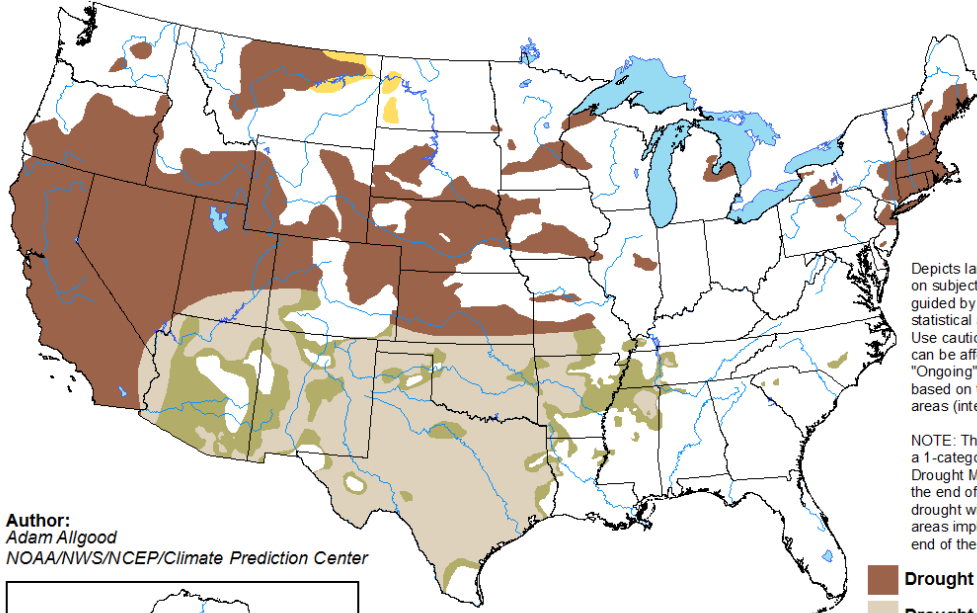


Seasonal Drought Outlook: [August 18 – November 30, 2022](#)

Source: National Weather Service

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

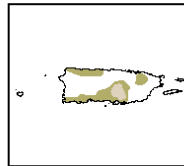
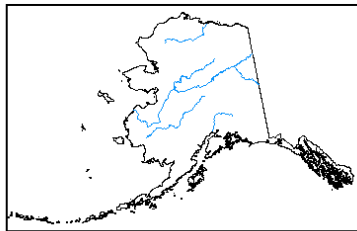
Valid for August 18 - November 30, 2022
Released August 18



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).

Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center



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



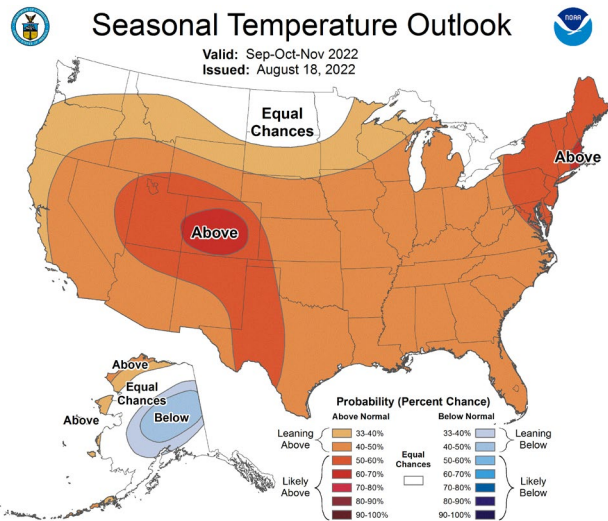
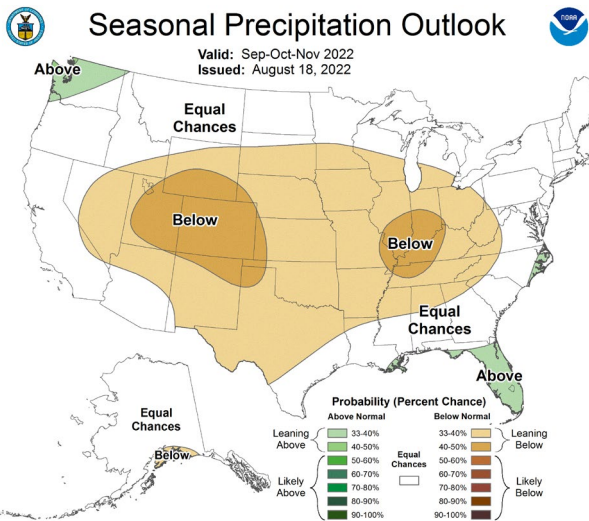
<http://go.usa.gov/3eZ73>

Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[September-October-November 2022 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](#).