



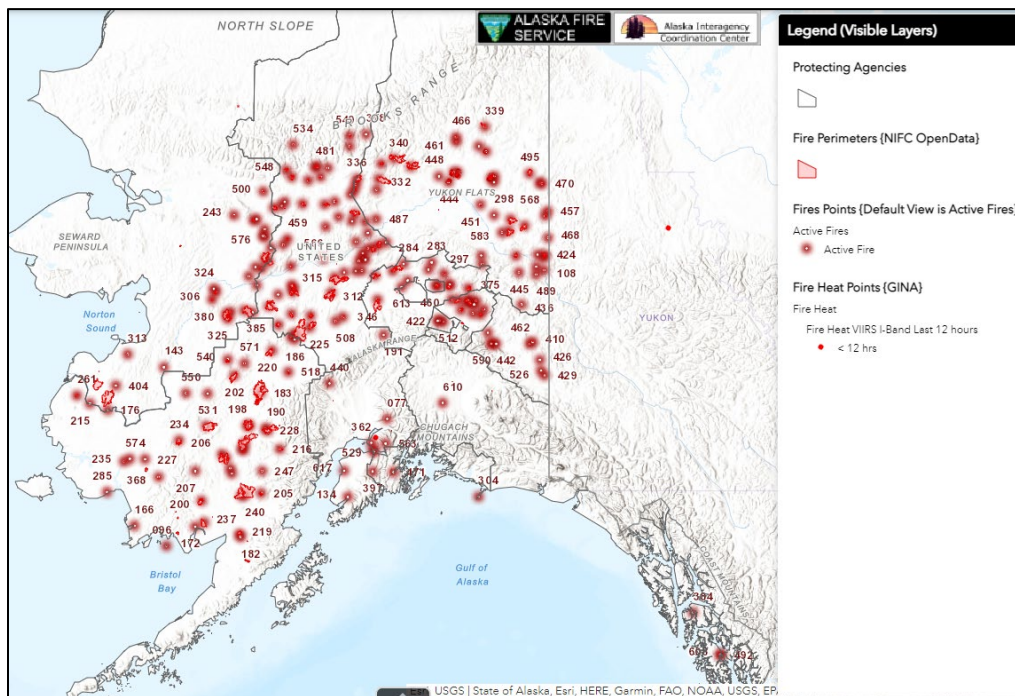
Water and Climate Update

August 04, 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.

| | | | |
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| Temperature..... | 6 | More Information | 18 |
| Drought | 8 | | |

Wildfires cover much of Alaska during record fire season



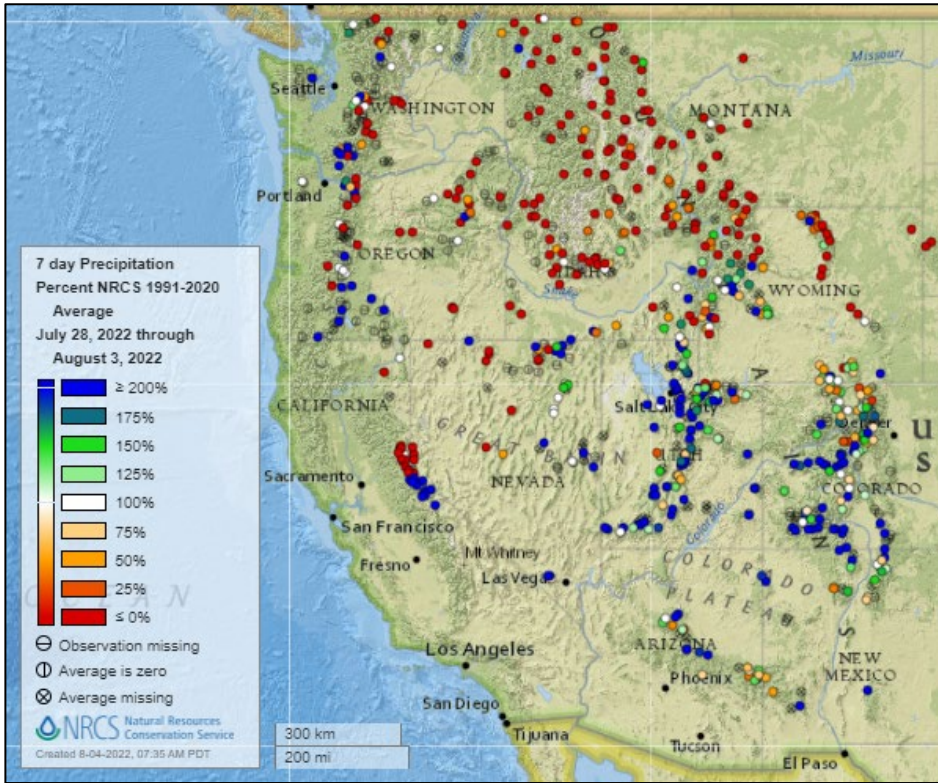
Alaska is experiencing a record wildfire season this year, with large wildfires already consuming an area the size of Connecticut. Currently, 27 large wildfires are burning over a million acres of land, with an additional multitude of medium and small active wildfires covering the state. The extreme fire conditions are attributed to early snowmelt in some parts of the state and a very dry June. Many of the wildfires started from lightning strikes. More than 3 million acres have burned across the state of Alaska for the first time since 2015. Warm and dry conditions are forecasted for the near future across much of the Interior into south-central and southeast Alaska.

Related:

- [Massive wildfires burn through ‘fireproof’ regions in Alaska](#) – PBS
- [Unprecedented storm stirs trouble for Interior Alaska](#) – Fairbanks KTVF (AK)
- [Alaska has seen plenty of wildfires. Just not like this.](#) - Local 24 News (AK)
- [Alaska is experiencing wildfires like it’s never seen before](#) – Alaska Public Media
- [Fire season winds down in Alaska, but the potential for blazes remains](#) – Fairbanks Daily News-Miner
- [Map: Track the wildfires burning across the U.S.](#) – NBC News

Precipitation

Last 7 Days, NRCS SNOTEL Network

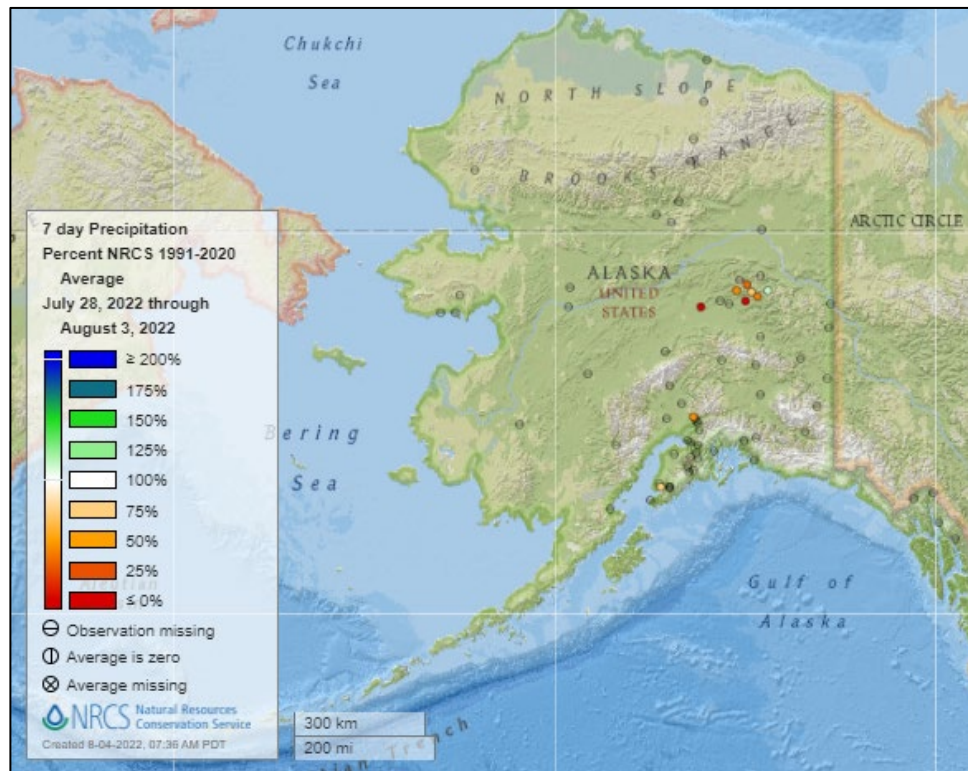


[7-day precipitation percent of average map](#)

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](#)



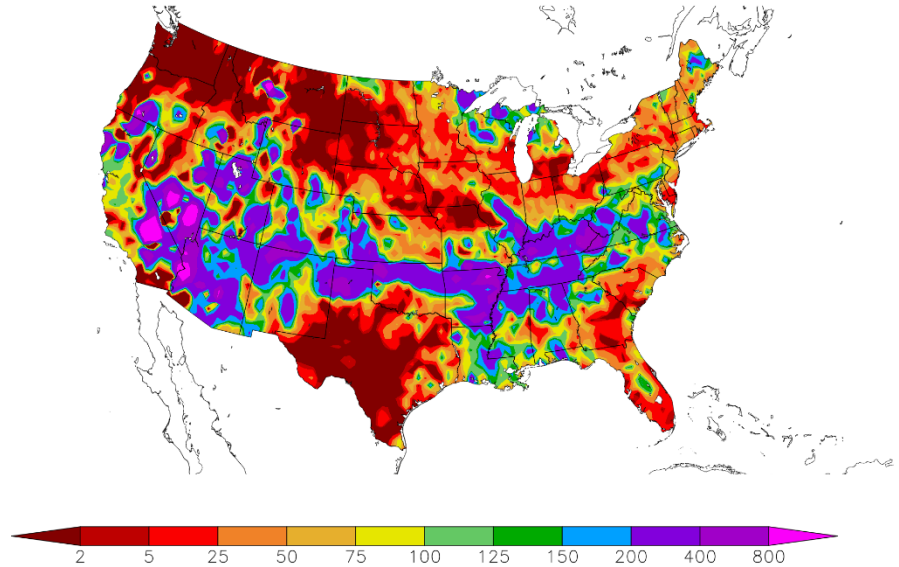
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
7/28/2022 – 8/3/2022



Generated 8/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

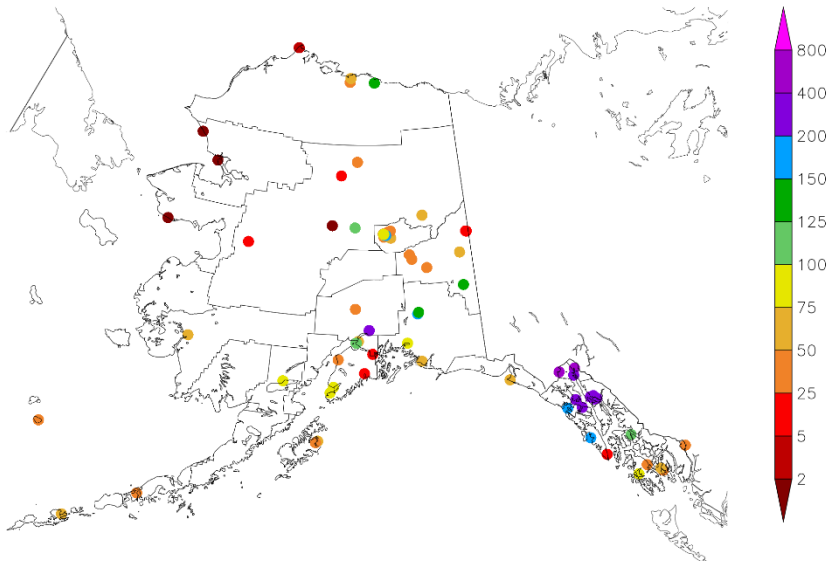
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
7/28/2022 – 8/3/2022



Generated 8/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

Monthly, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

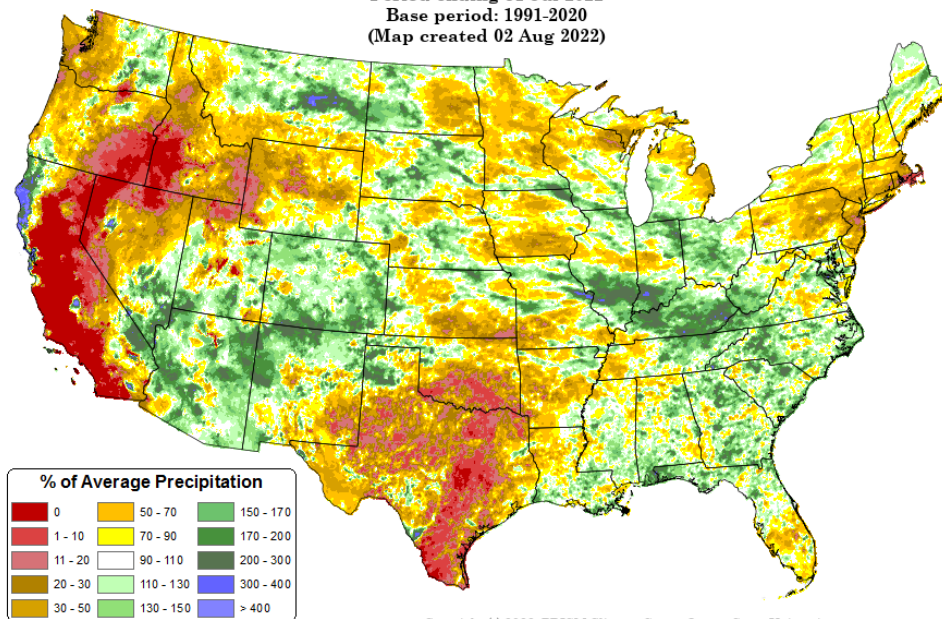
Total Precipitation Anomaly: Jul 2022

Period ending 31 Jul 2022

Base period: 1991-2020

(Map created 02 Aug 2022)

[Monthly national total precipitation anomaly map](#)



Copyright (c) 2022, PRISM Climate Group, Oregon State University

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

Source: PRISM

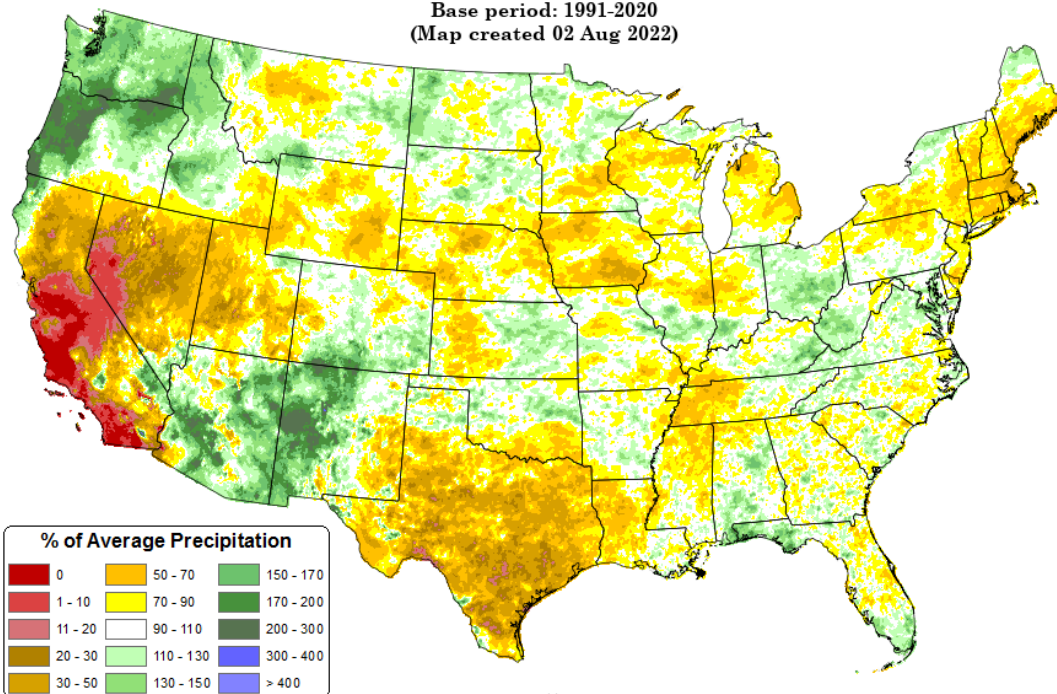
[May through July 2022 precipitation anomaly map](#)

Total Precipitation Anomaly: May 2022 - Jul 2022

Period ending 7 AM EST 31 Jul 2022

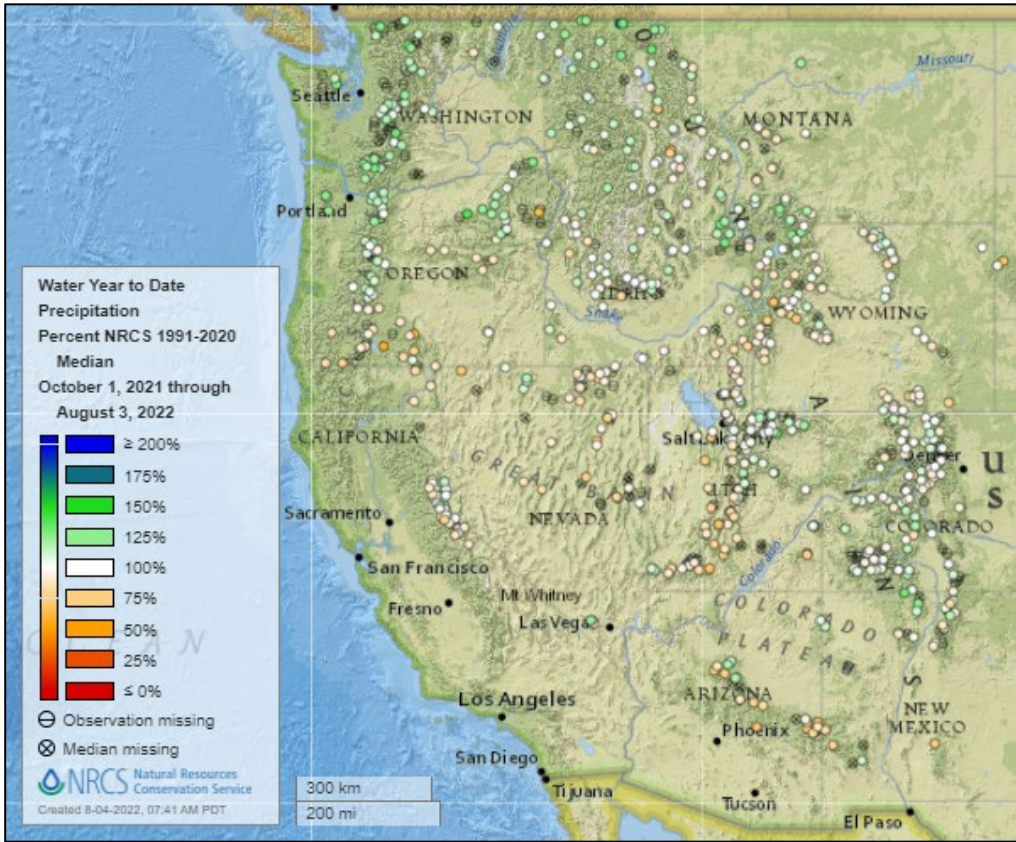
Base period: 1991-2020

(Map created 02 Aug 2022)



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Water Year-to-Date, NRCS SNOTEL Network

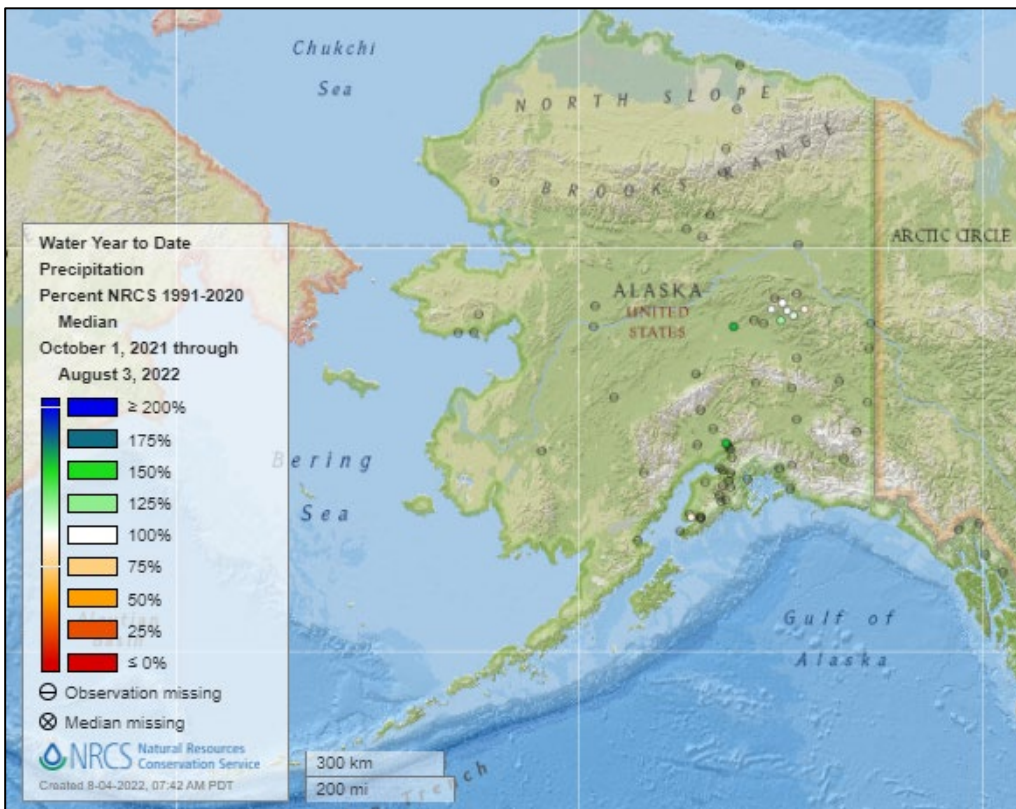


[2022 water year-to-date precipitation percent of median map](#)

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

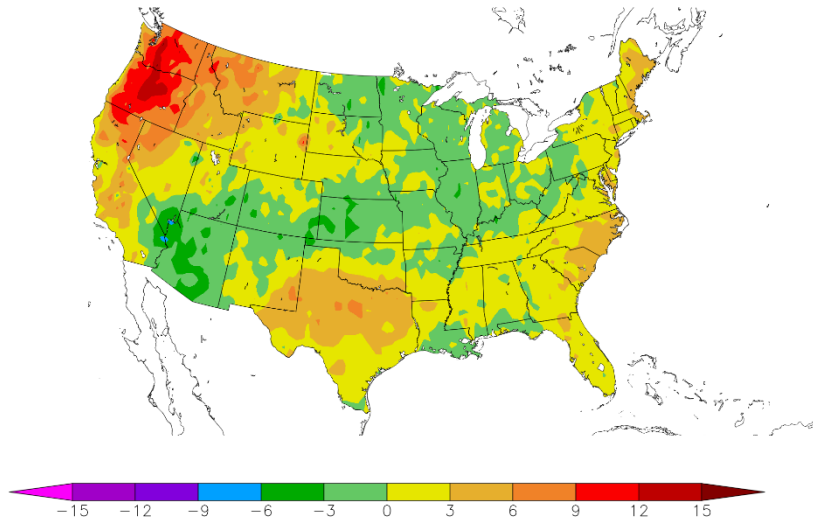
Last 7 Days, National Weather Service (NWS) Networks

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)
7/28/2022 – 8/3/2022



Generated 8/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

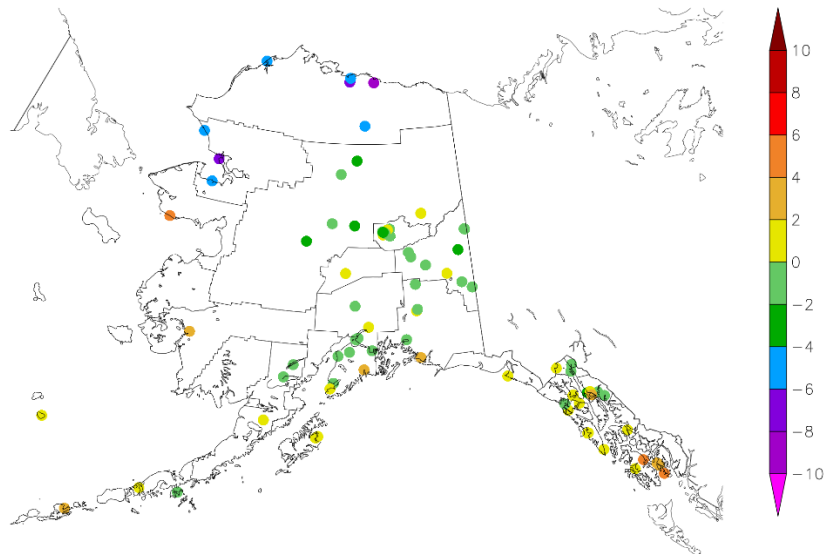
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
7/28/2022 – 8/3/2022



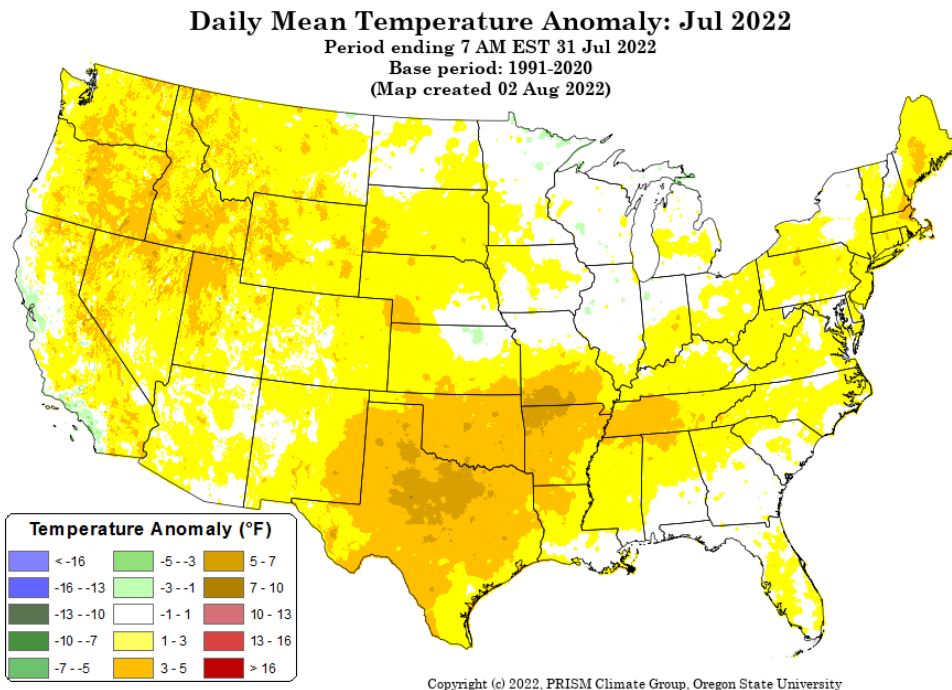
Generated 8/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

Monthly, All Available Data Including SNOTEL and NWS Networks

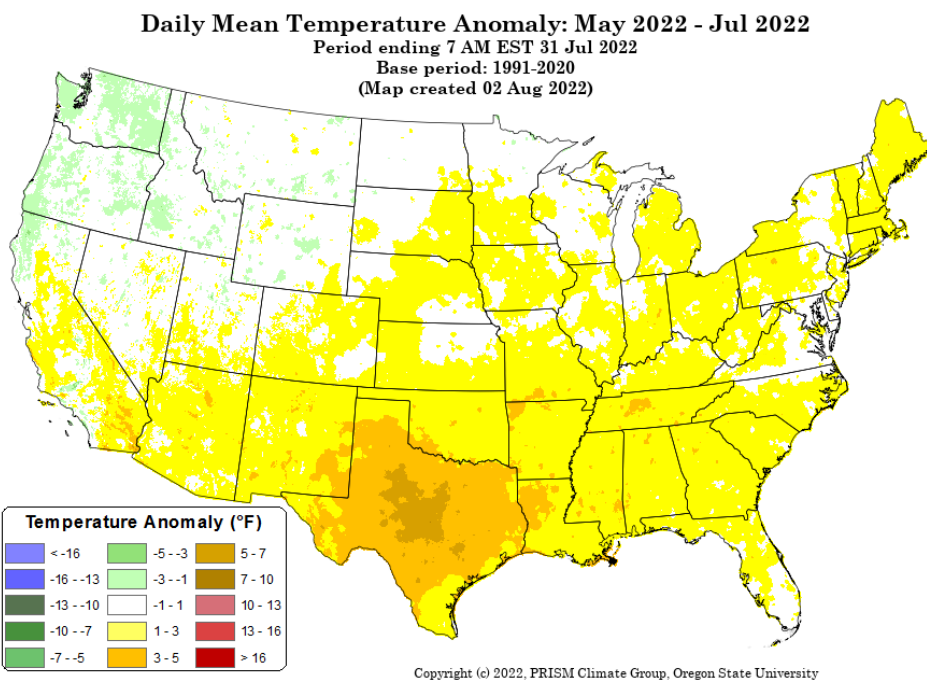
Source: PRISM

[Monthly 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](#)

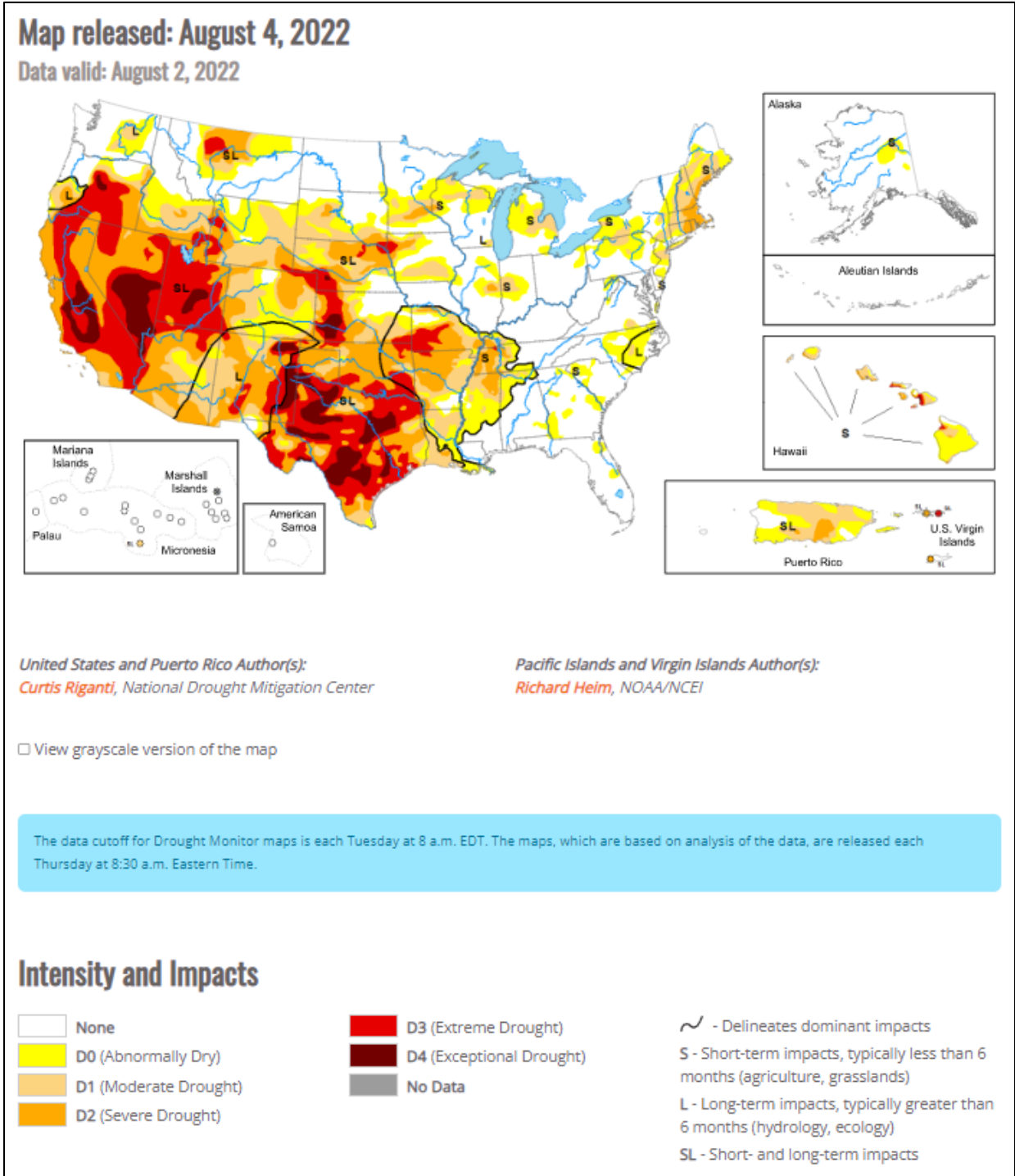
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), August 02, 2022

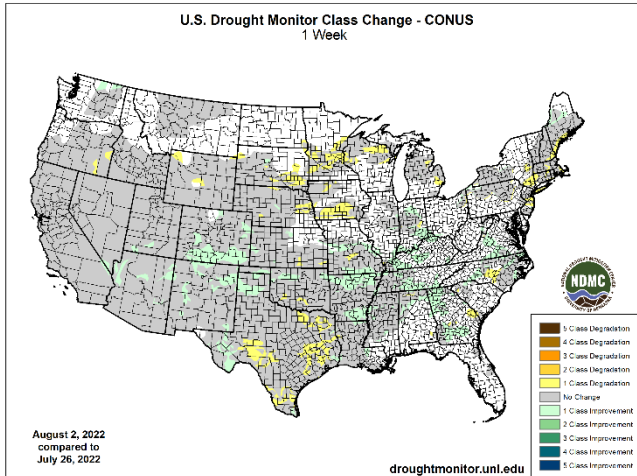
Source: National Drought Mitigation Center

“Weather and drought conditions varied widely in the contiguous U.S. this week. From the Desert Southwest and southern Colorado eastward into the Texas Panhandle, western Kansas, eastern Colorado, northern Oklahoma, and Arkansas, heavy rainfall fell in some areas, leading to localized improvements in ongoing drought. Drier conditions in the Northeast led to the expansion of moderate and severe drought in the New York City area and in parts of New England. Drier weather also led to expansion of drought conditions in parts of the central Great Plains and Upper Midwest. Similar conditions in Texas led to expansion of drought conditions there, while recent precipitation led to some improvements in southwest Texas. For more local details, please refer to the regional summaries below.”

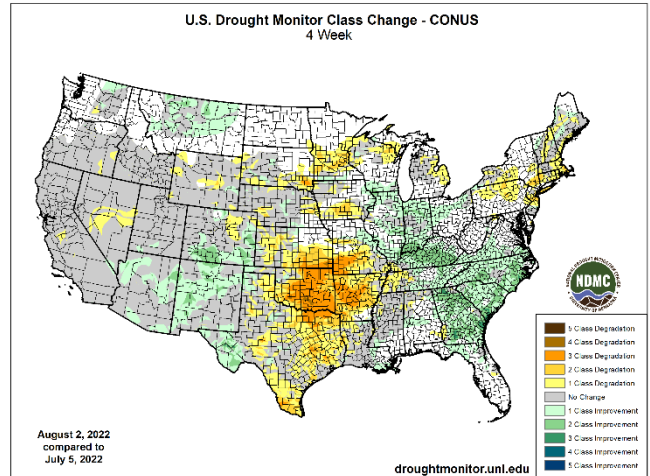
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

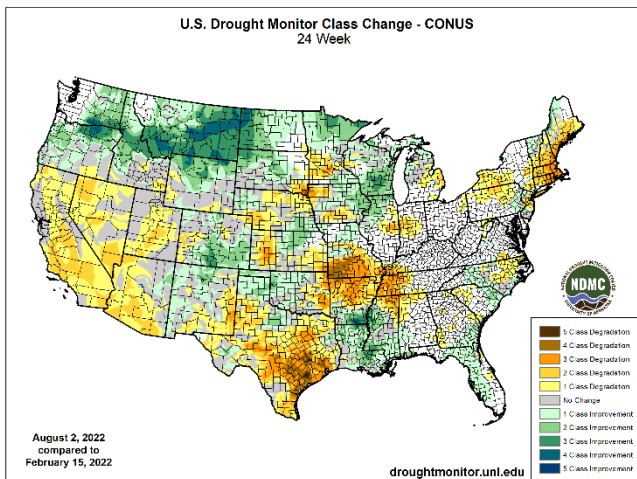
1 Week



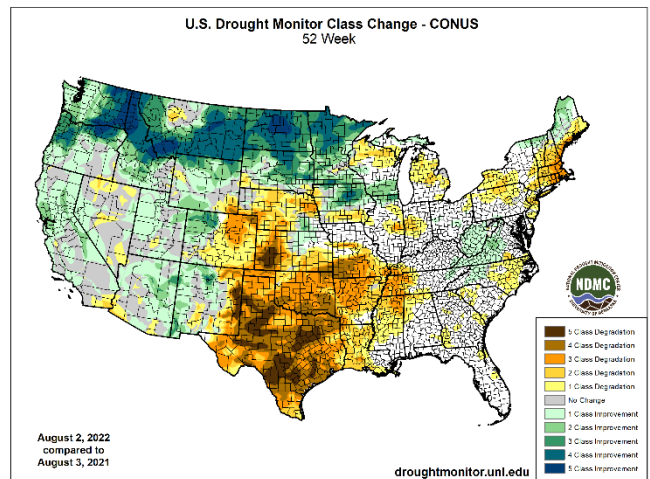
1 Month



6 Months



1 Year



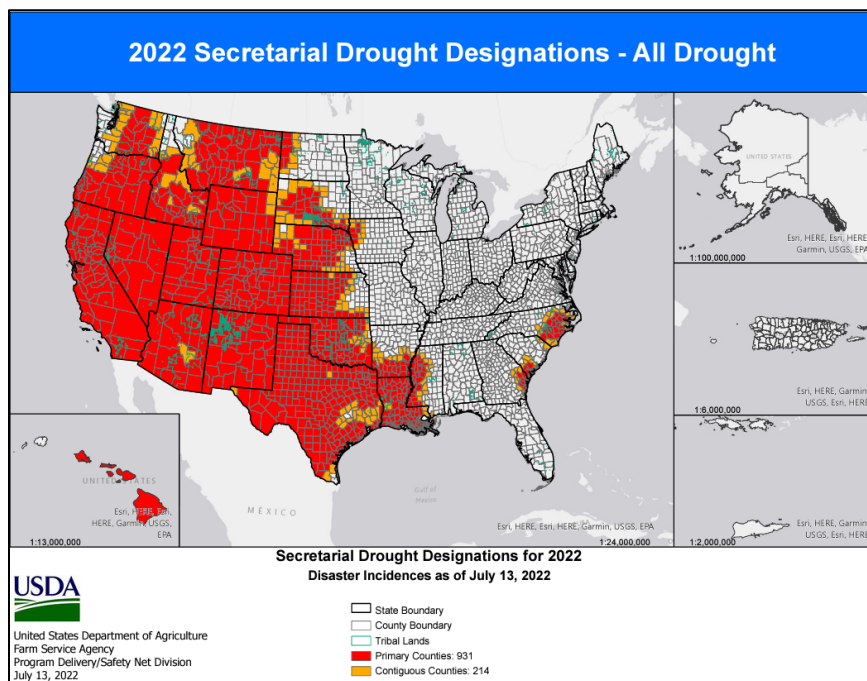
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

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](#)



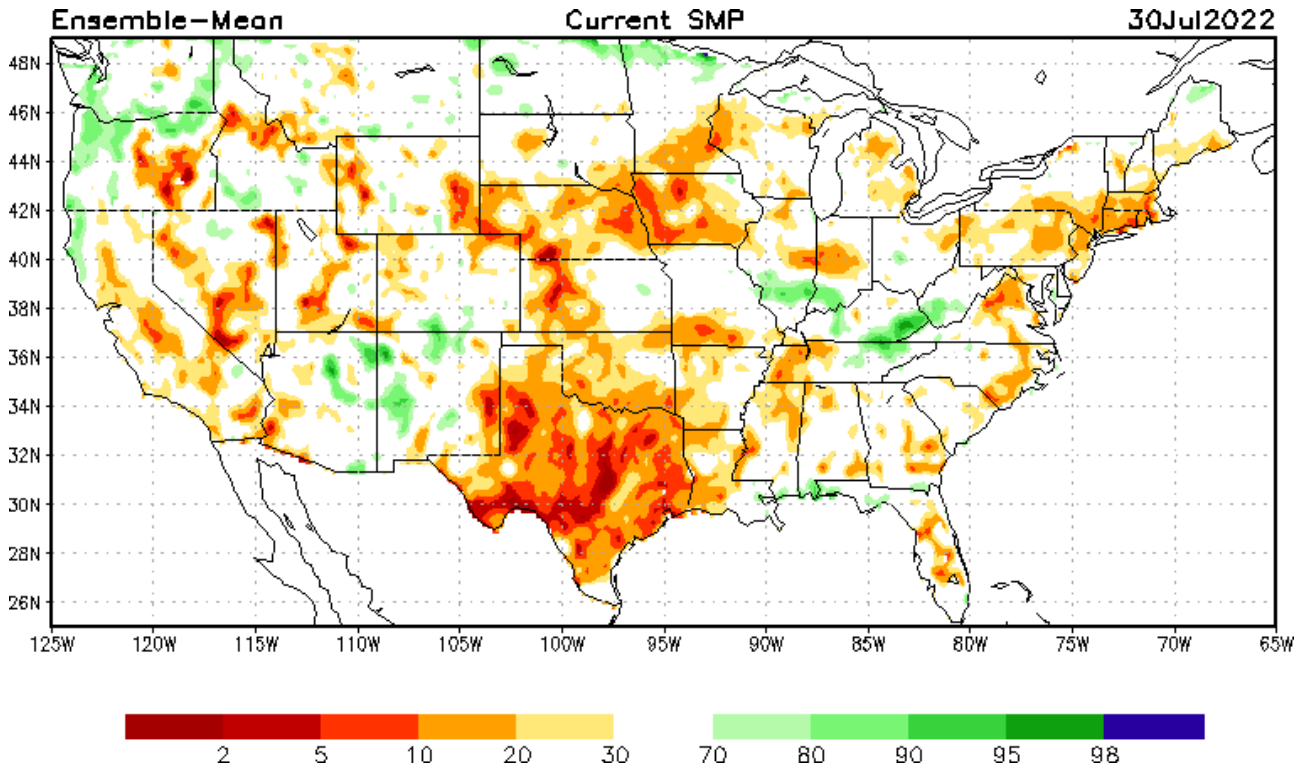
Highlighted Wildfire Resources

- [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

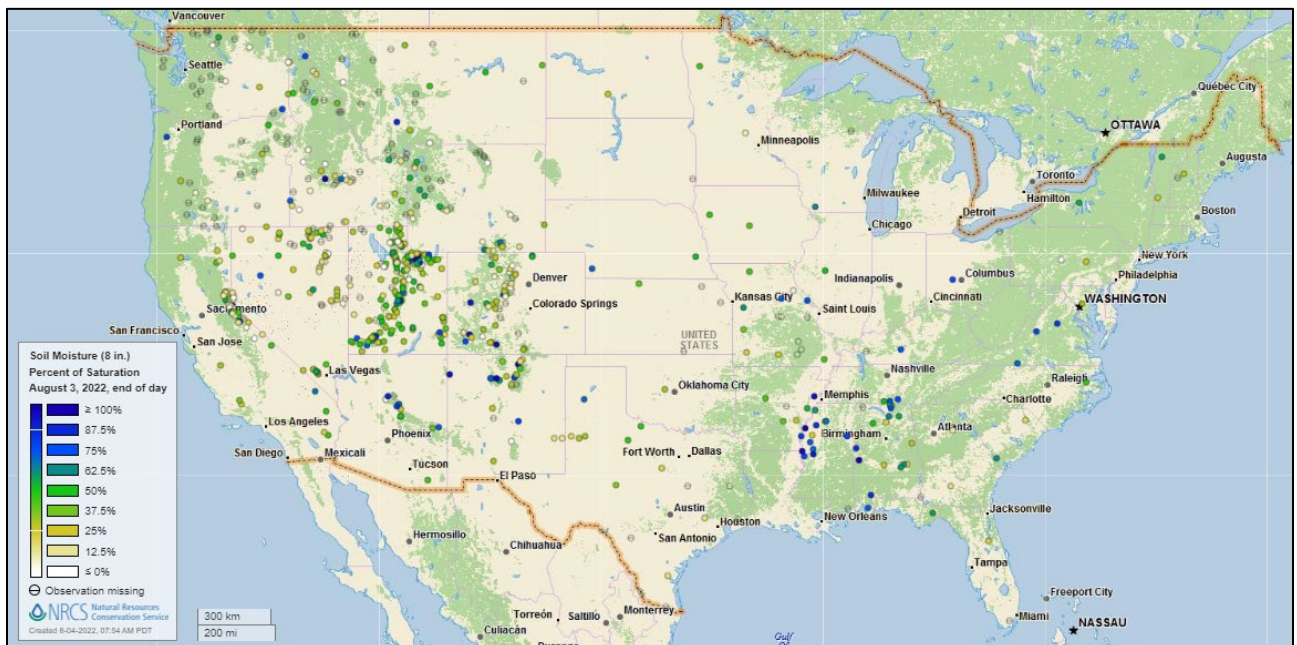


[Modeled soil moisture percentiles](#) as of July 30, 2022

Soil Moisture Percent of Saturation

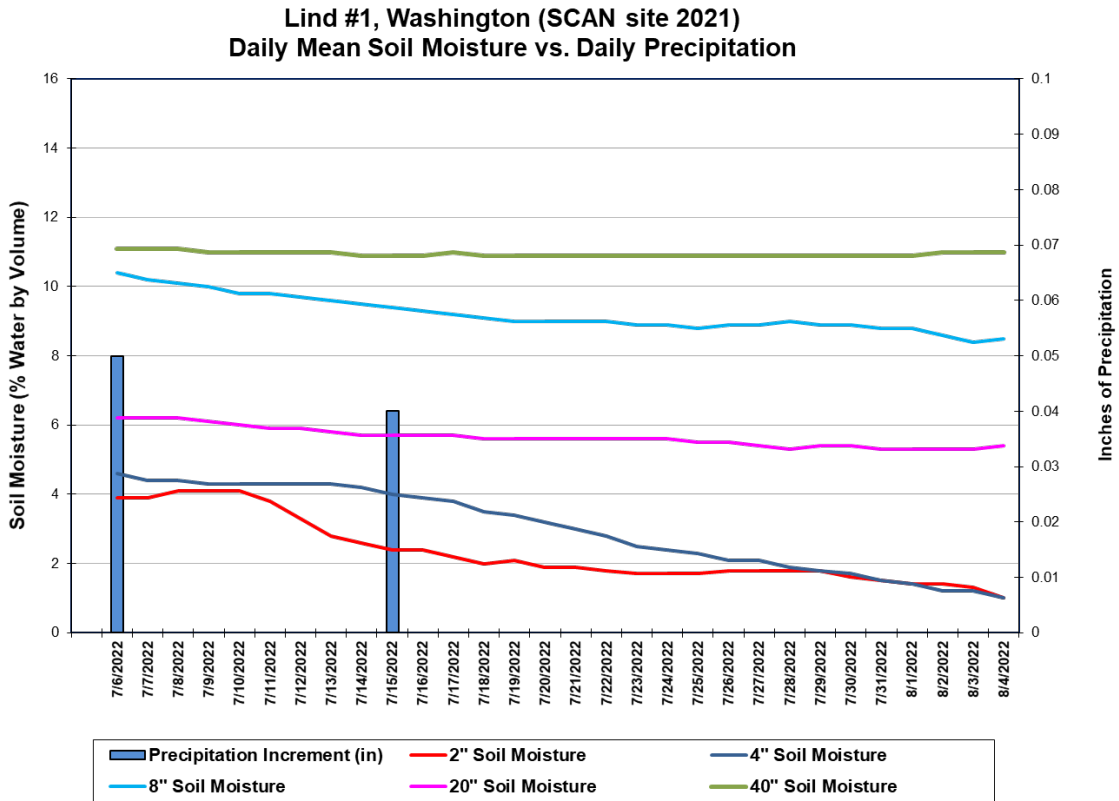
Source: NRCS SNOTEL and [Soil Climate Analysis Network](#) (SCAN)

[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 [Lind #1](#) SCAN site in Washington. Soil moisture levels decreased at all sensor depths except the -2-inch sensor over the period. The -2-inch soil sensor reported a slight increase in soil moisture from 0.05 inches of precipitation on July 6. Total precipitation received during the period was 0.09 inches.

Soil Moisture Data Portals

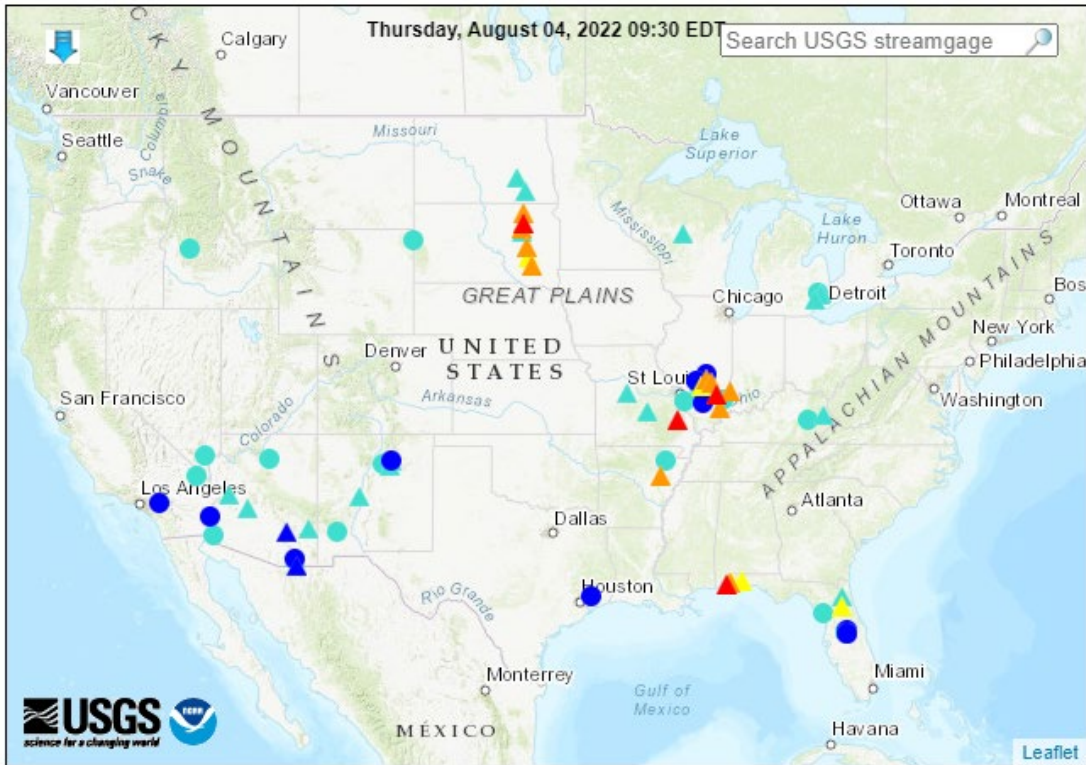
- [USCRN Soil Moisture](#)
- [National Soil Moisture Network](#)
- [NOAA Climate Prediction Center Soil Moisture](#)
- [NASA Grace](#)

Streamflow, Drought, Flood, and Runoff

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

Map of flood and high flow conditions

(14 in floods [moderate: 4, minor: 10], 5 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

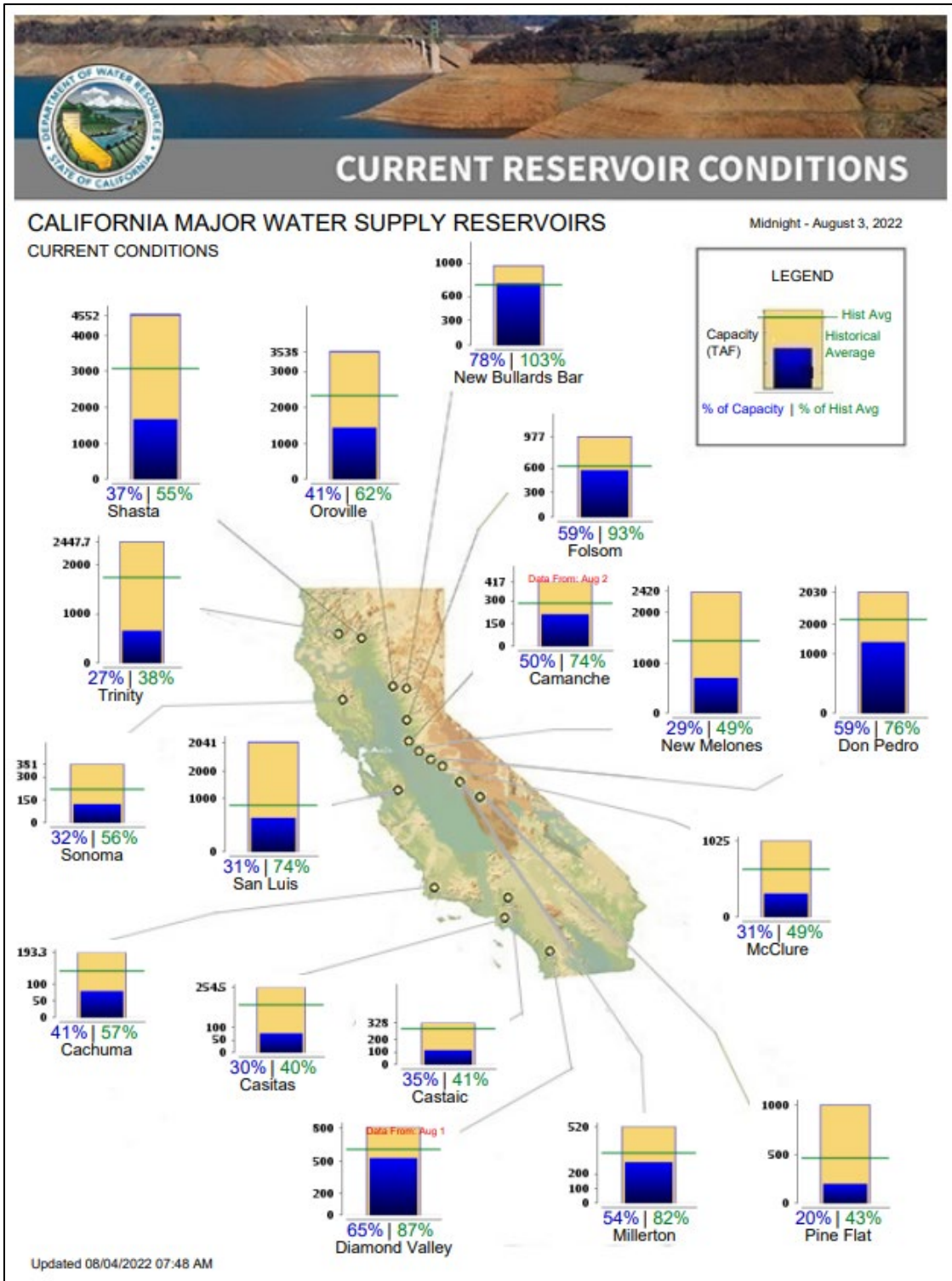
Hydromet Teacup Reservoir Depictions

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 04, 2022: “During the next 5 days, much of the country will experience near- or above-normal temperatures. Over the weekend, however, pleasantly cool air will overspread the northern Plains. Early next week, some of that cool weather will reach the Midwest. In contrast, relentless heat will prevail across the south-central U.S., including Texas. In addition, heat should re-intensify across the Northwest. Across the remainder of the western U.S., including the Four Corner States and the Great Basin, an active monsoon circulation should produce widespread showers and provide limited drought relief, although flash flooding may occur. Locally heavy thunderstorms may develop during the weekend across the northern and eastern Corn Belt, with 1- to 3-inch totals possible. In contrast, little or no rain will fall during the next 5 days across the central and southern Plains and the southwestern Corn Belt, while spotty thundershowers will dot the Southeast. The NWS 6- to 10-day outlook for August 9 – 13 calls for the likelihood of near- or above-normal temperatures nationwide, except for cooler-than-normal conditions in the Desert Southwest. Meanwhile, near- or above-normal rainfall in the South, East, and from the Pacific Coast to the Rockies should contrast with drier-than-normal weather across the Plains and much of the Midwest.”

Weather Hazards Outlook: [August 06 – 10, 2022](#)

Source: NOAA Weather Prediction Center

U.S. Day 3-7 Hazards Outlook

[About the Hazards Outlook](#)

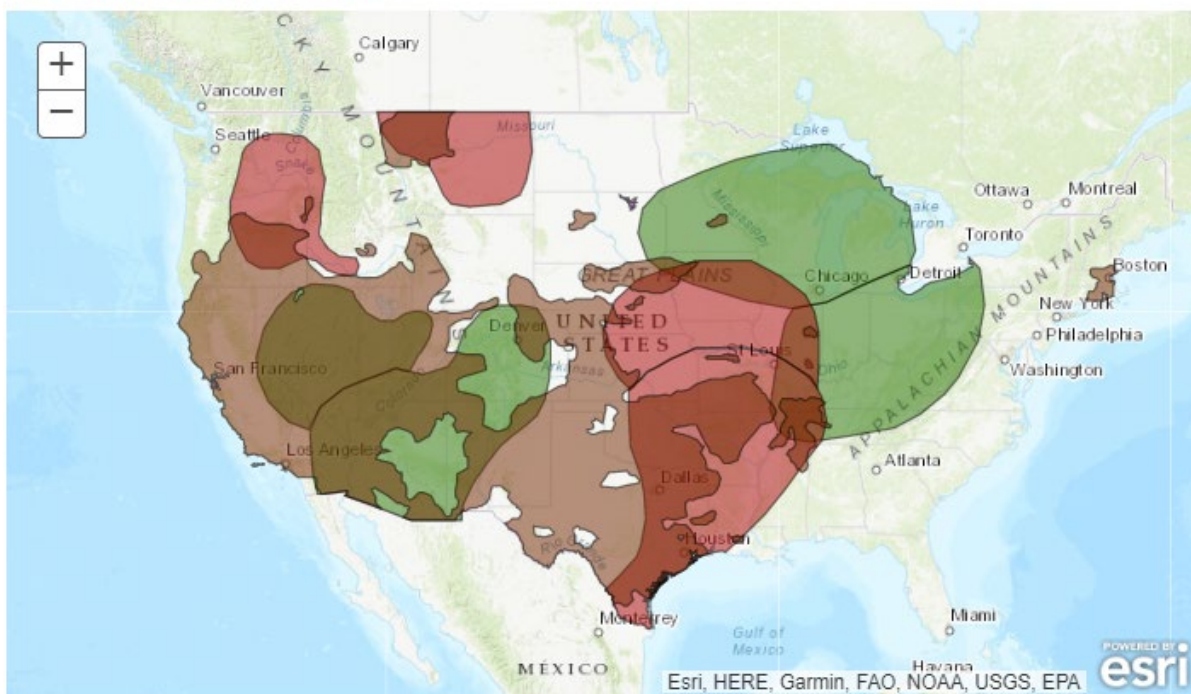
Created August 03, 2022

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 06, 2022 - August 10, 2022

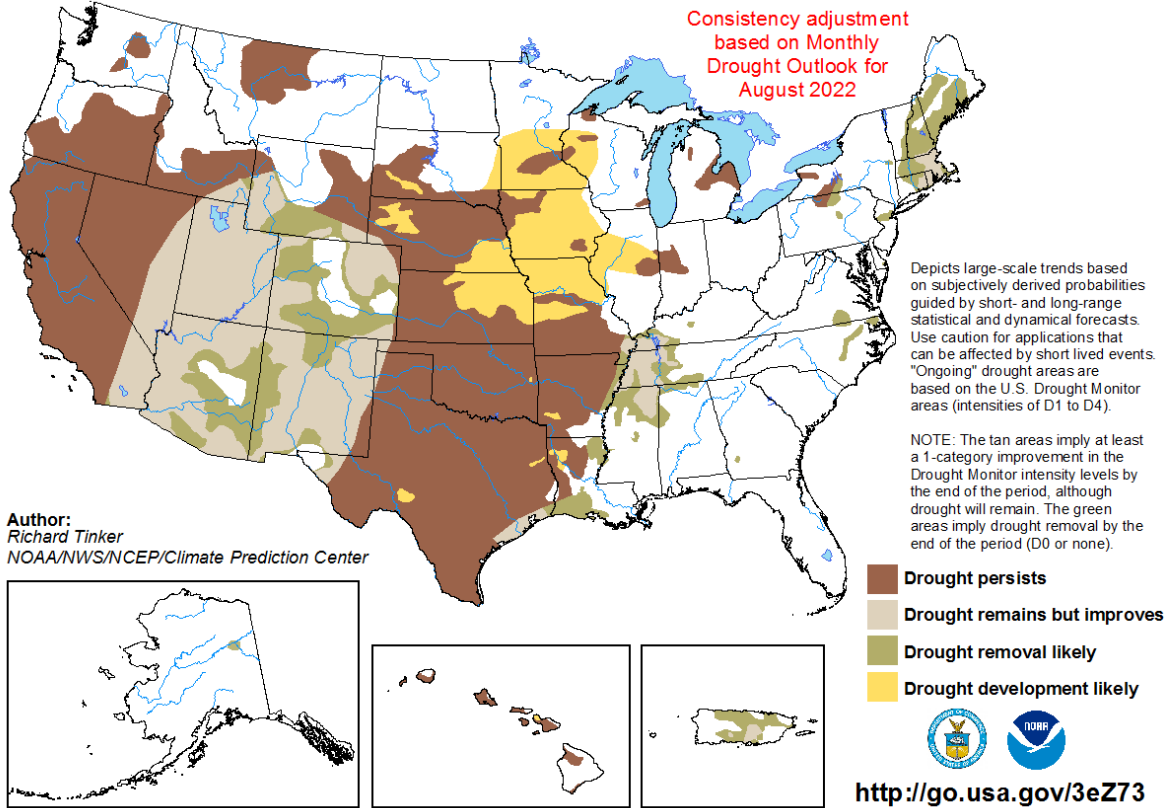


Seasonal Drought Outlook: [August 01 – October 31, 2022](#)

Source: National Weather Service

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

Valid for August 1 - October 31, 2022
Released July 31, 2022

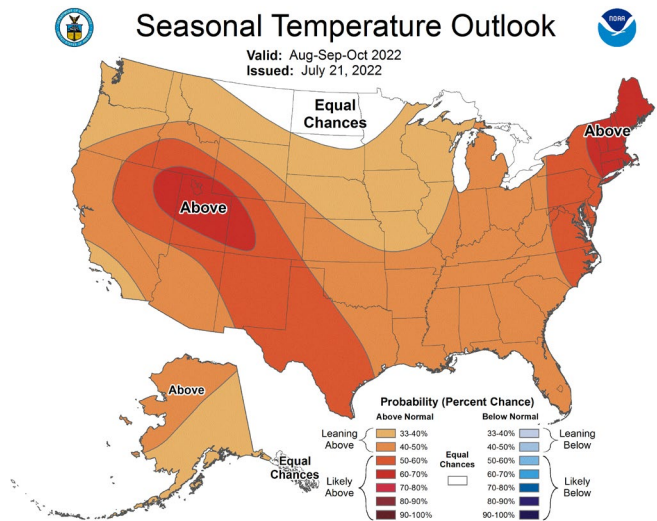
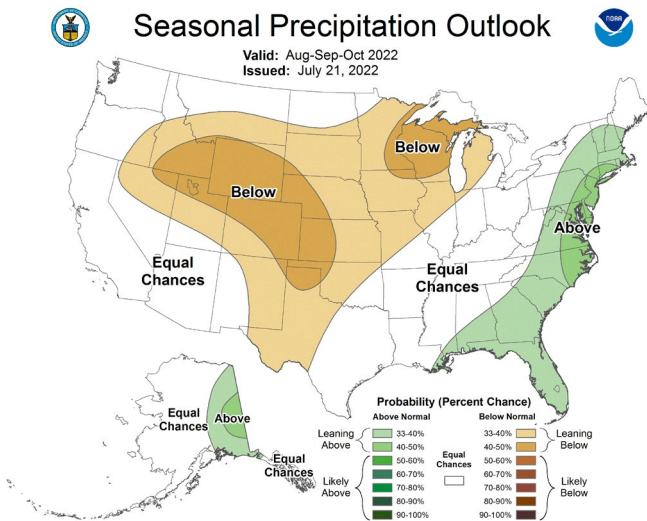


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

[Precipitation](#)

[Temperature](#)



[August-September-October 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](#).