



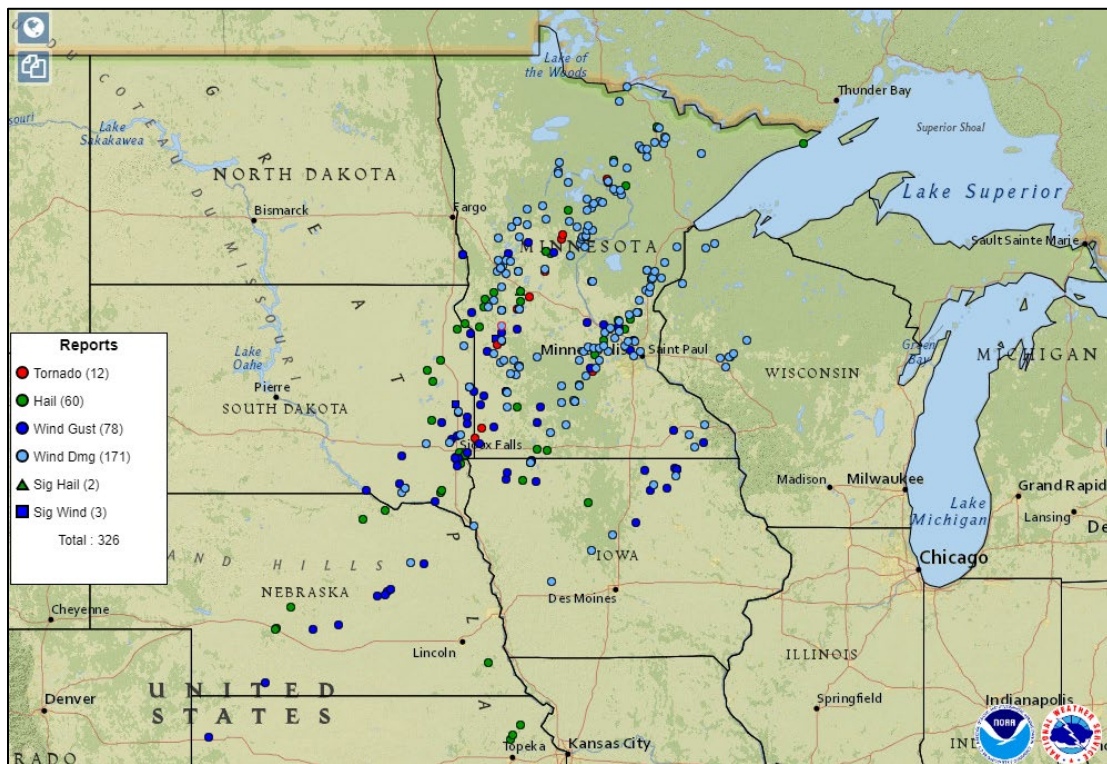
Water and Climate Update

June 02, 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.

Snow	2	Drought	10
Precipitation	4	Other Climatic and Water Supply Indicators	14
Temperature.....	8	More Information	20

Severe storms and tornadoes impact the upper Midwest

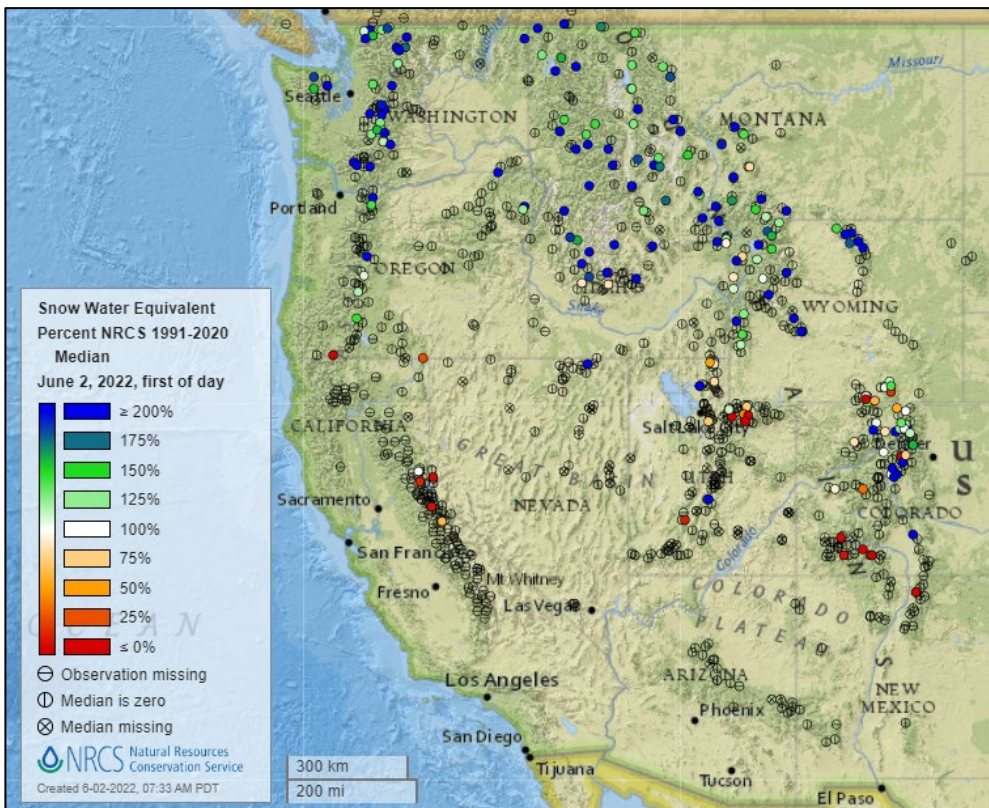


A line of severe storms spawned tornadoes in the upper Midwest on May 31. Storm reports for the day included 12 tornadoes sighted in Minnesota. A combination of four EF-1 and EF-2 tornadoes were on the ground for a total of more than 100 miles. An EF-2 tornado with winds of 120 mph and nearly a half-mile wide caused extensive damage to the town of Forada, Minnesota.

Related:

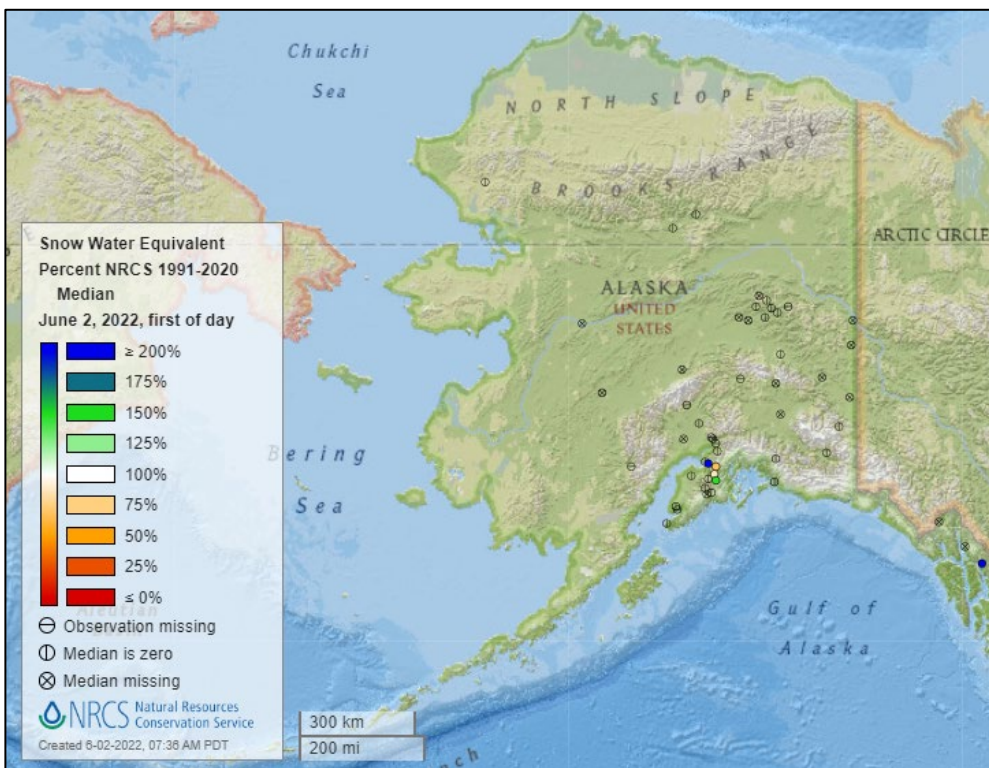
- [Tornadoes leave trail of destruction in Midwest](#) – ABC
- [NWS Says 4 Tornadoes Hit Minnesota During Memorial Day Storms](#) – CBS Minnesota
- [Severe storm outbreak, tornadoes forecast for north-central U.S.](#) – Washington Post
- [NWS releases maps of Memorial Day tornado tracks in Minnesota](#) – Bring Me the News on MSN
- [Severe Weather Expected Sunday Night & Memorial Day - Tornadoes, Damaging Winds, And Large Hail Possible](#) – Star Tribune (MN)
- [Possible tornado destroys half of Minnesota city: "I've never seen nothing like this"](#) – CBS News
- [Severe weather to close out May in central US](#) – Yahoo News

Snow



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

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

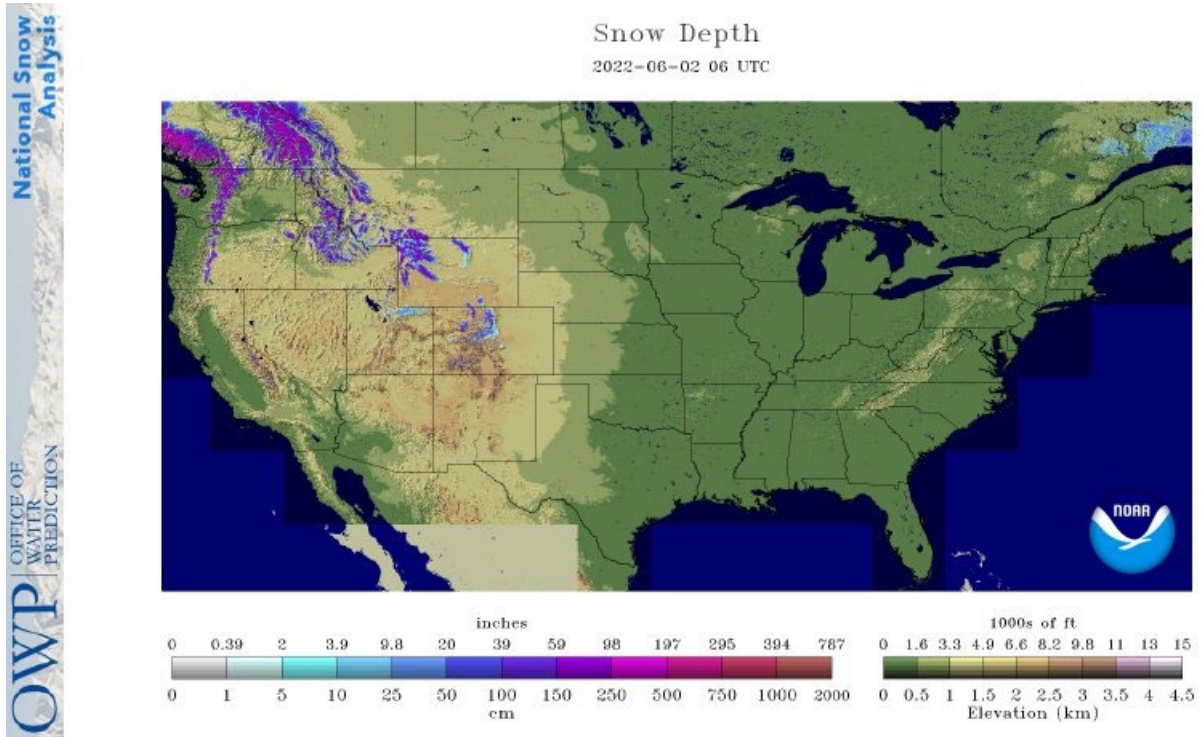


[Alaska snow water equivalent percent of median map](#)

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

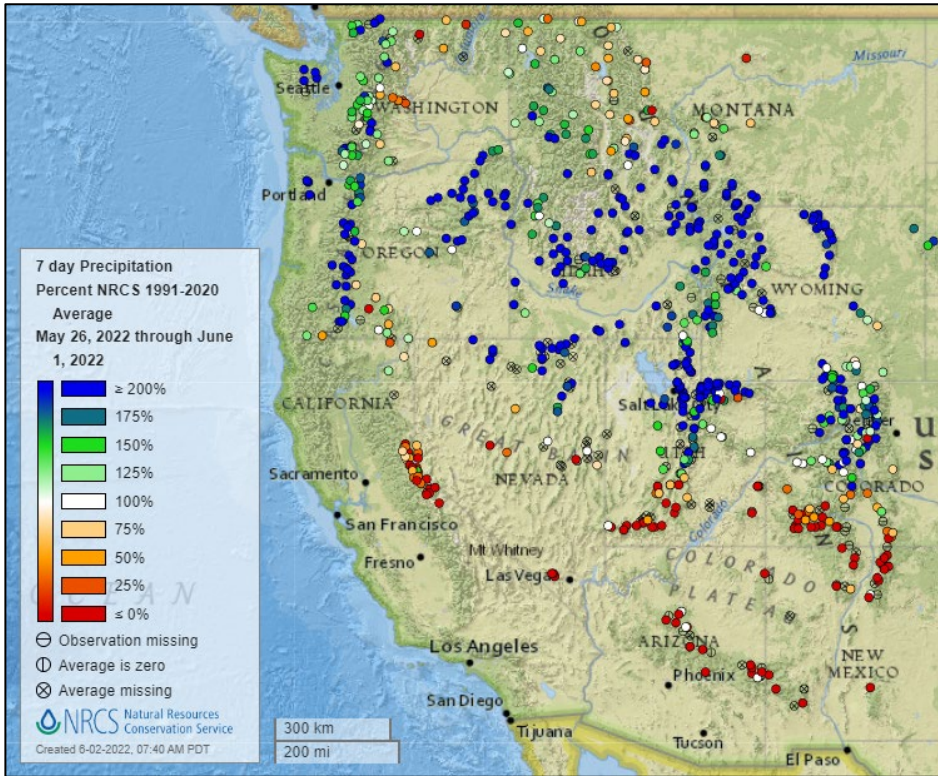
Current Snow Depth, National Weather Service Snow Analysis

Source: NOAA Office of Water Prediction



Precipitation

Last 7 Days, NRCS SNOTEL Network

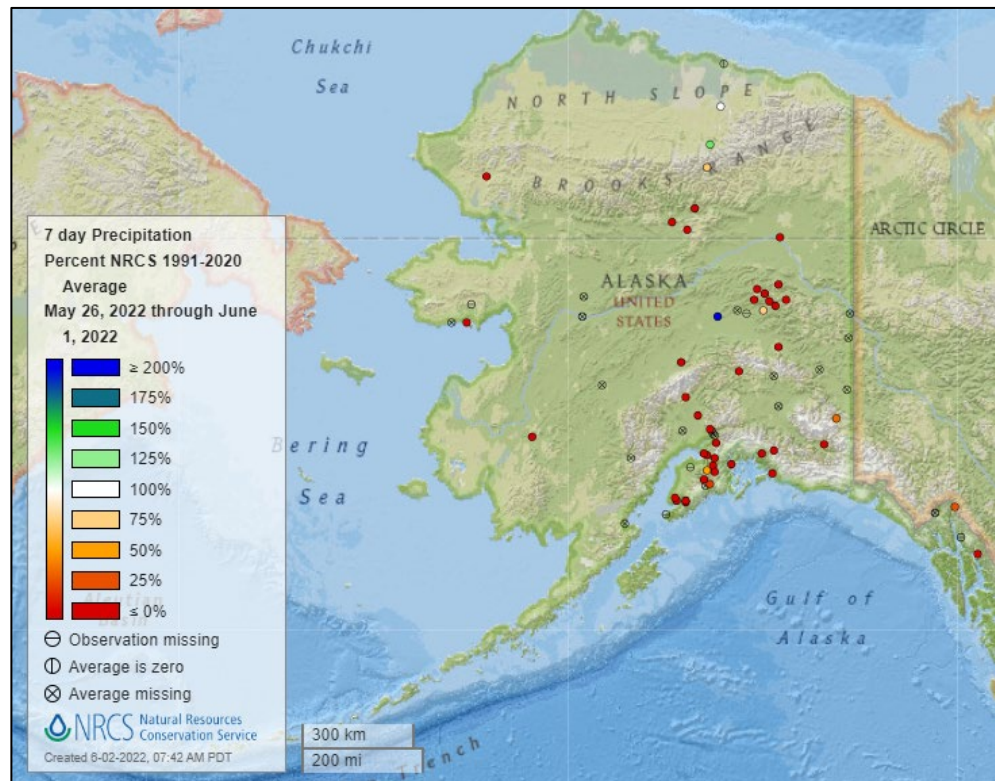


[7-day precipitation percent of average map](#)

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](#)



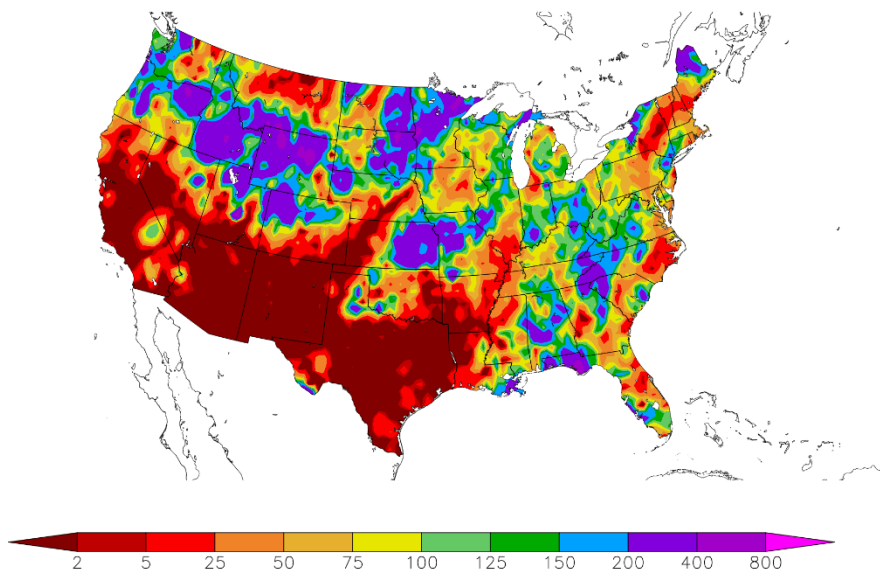
Last 7 Days, National Weather Service (NWS) Networks

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 (%)
5/26/2022 – 6/1/2022



Generated 6/2/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

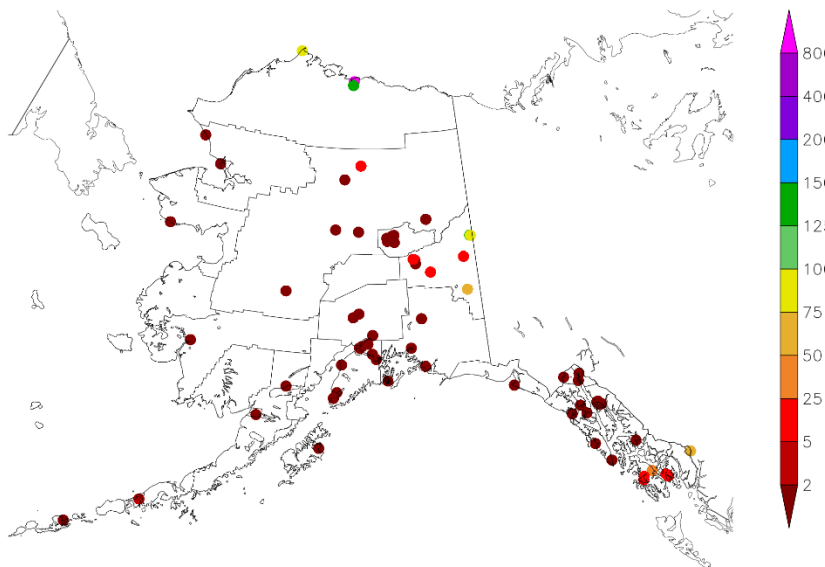
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Percent of Normal Precipitation (%)
5/26/2022 – 6/1/2022



Generated 6/2/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

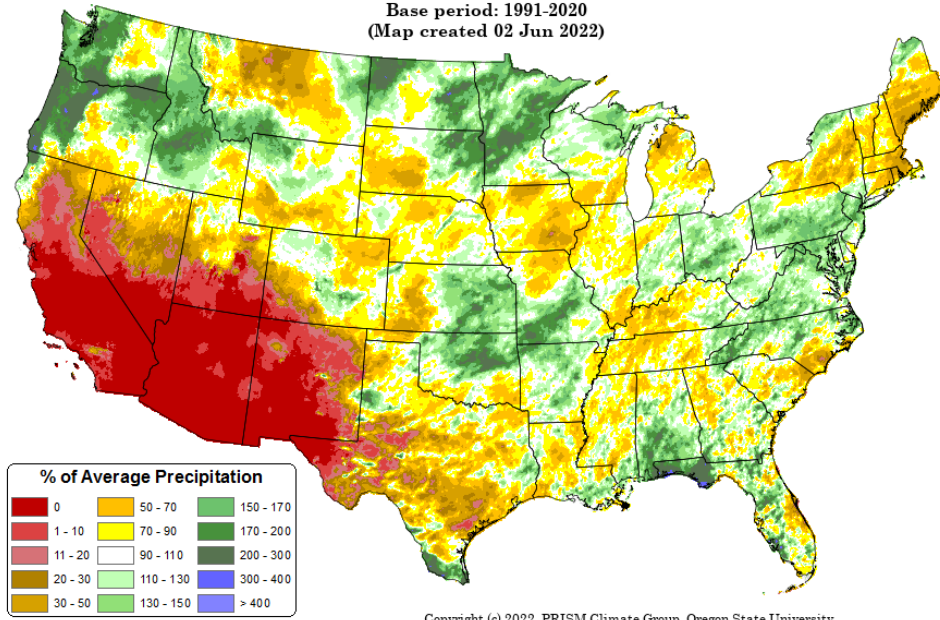
Monthly, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

Total Precipitation Anomaly: May 2022

Period ending 31 May 2022
Base period: 1991-2020
(Map created 02 Jun 2022)

[Monthly national total precipitation anomaly map](#)



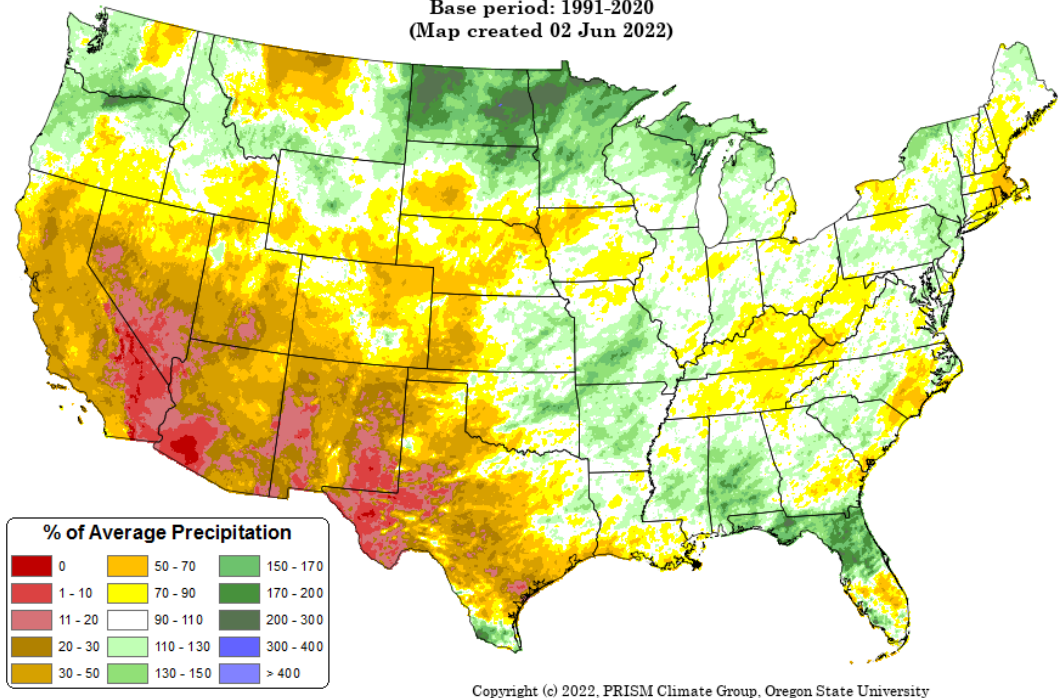
Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

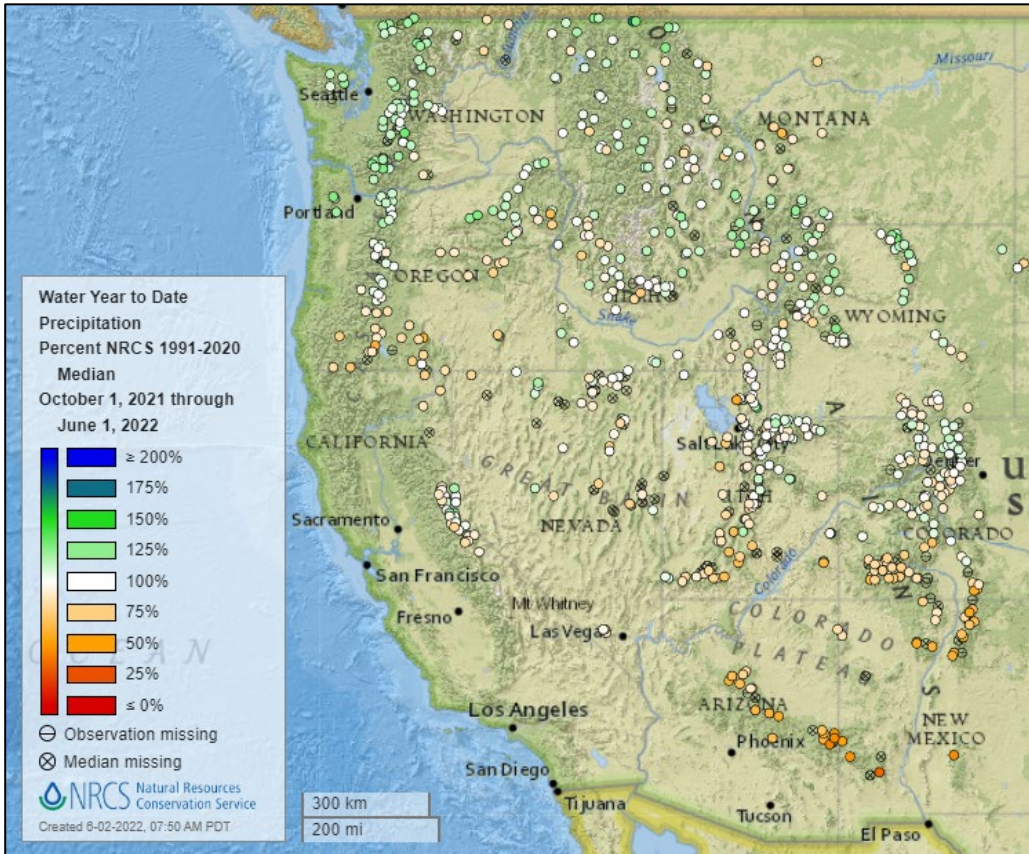
[March through May 2022 precipitation anomaly map](#)

Total Precipitation Anomaly: Mar 2022 - May 2022

Period ending 7 AM EST 31 May 2022
Base period: 1991-2020
(Map created 02 Jun 2022)



Water Year-to-Date, NRCS SNOTEL Network

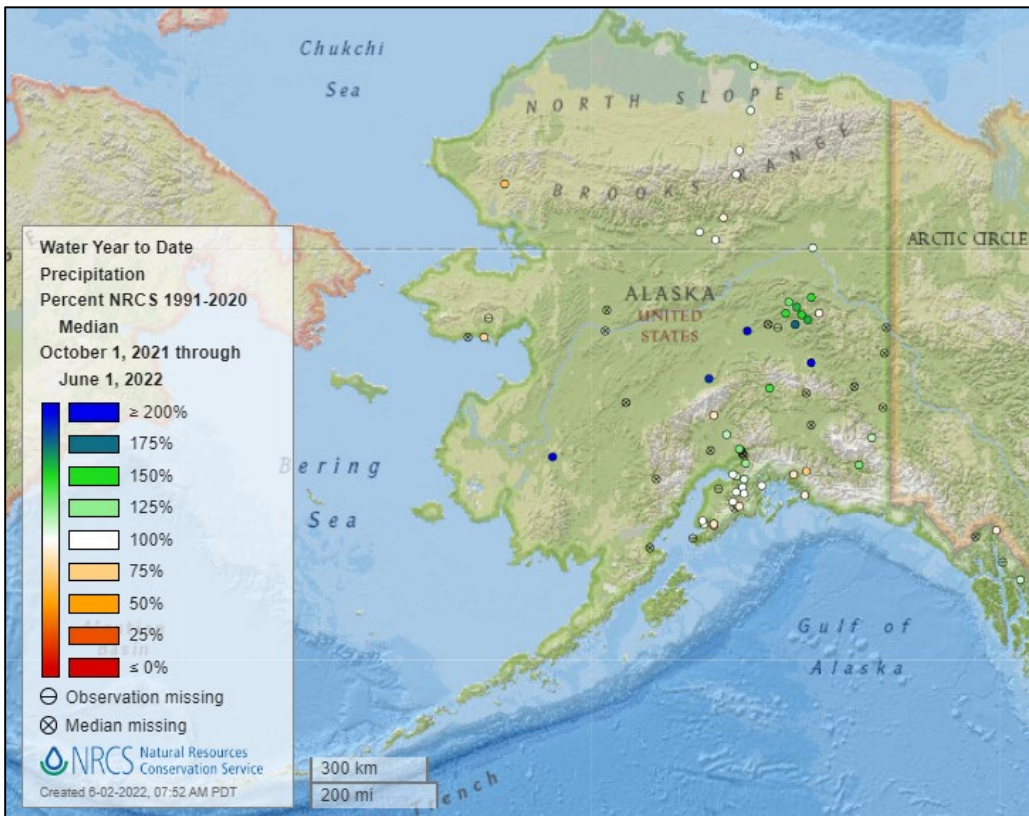


[2022 water year-to-date precipitation percent of median map](#)

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

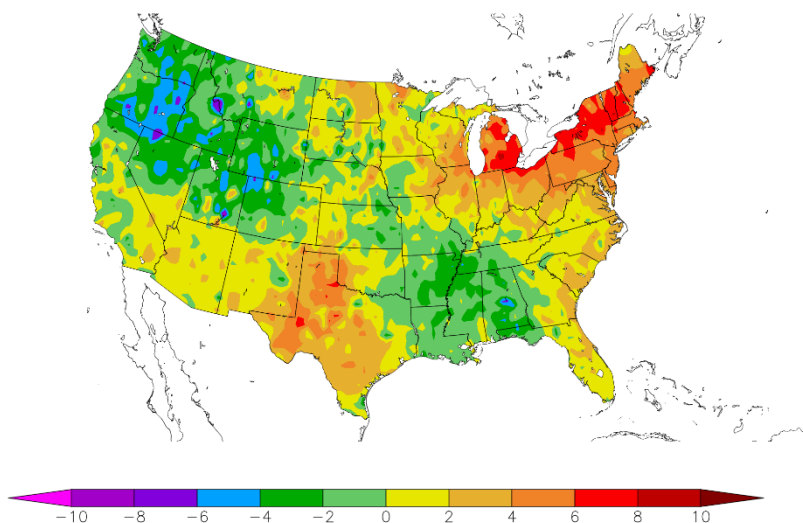
Last 7 Days, National Weather Service (NWS) Networks

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)
5/26/2022 – 6/1/2022



Generated 6/2/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

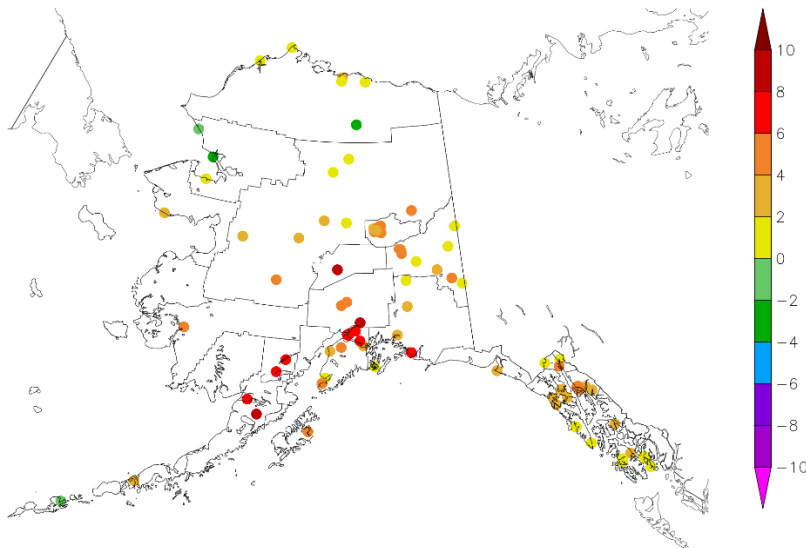
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

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

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

Departure from Normal Temperature (F)
5/26/2022 – 6/1/2022



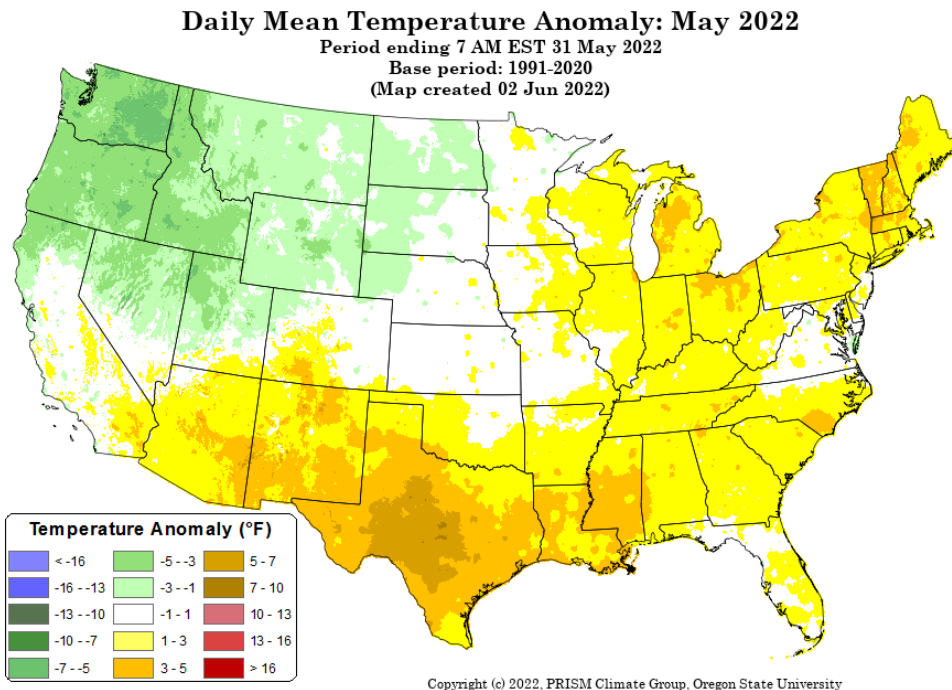
Generated 6/2/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

Monthly, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[Monthly national daily mean temperature anomaly map](#)

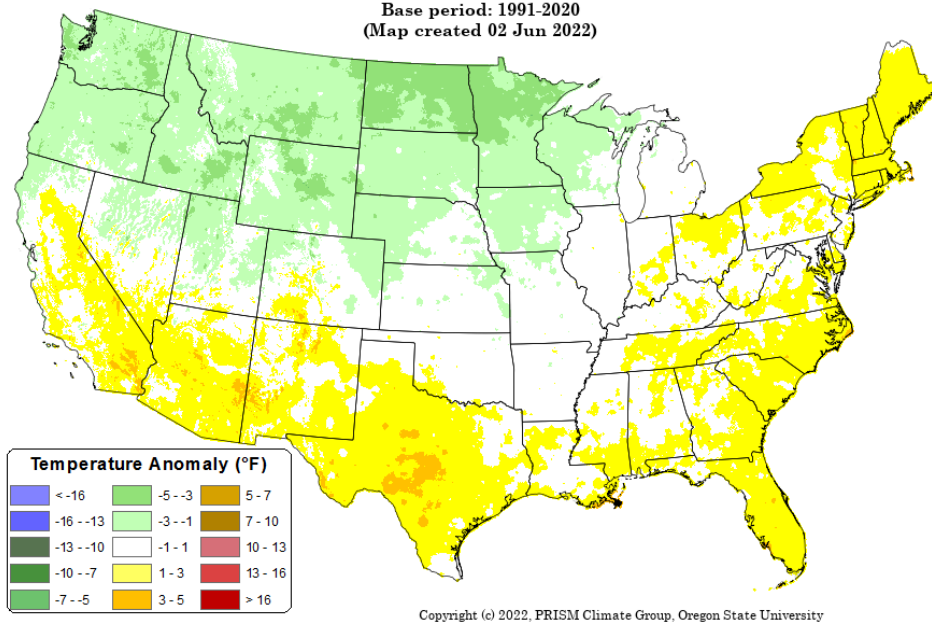


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

Daily Mean Temperature Anomaly: Mar 2022 - May 2022
Period ending 7 AM EST 31 May 2022
Base period: 1991-2020
(Map created 02 Jun 2022)

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



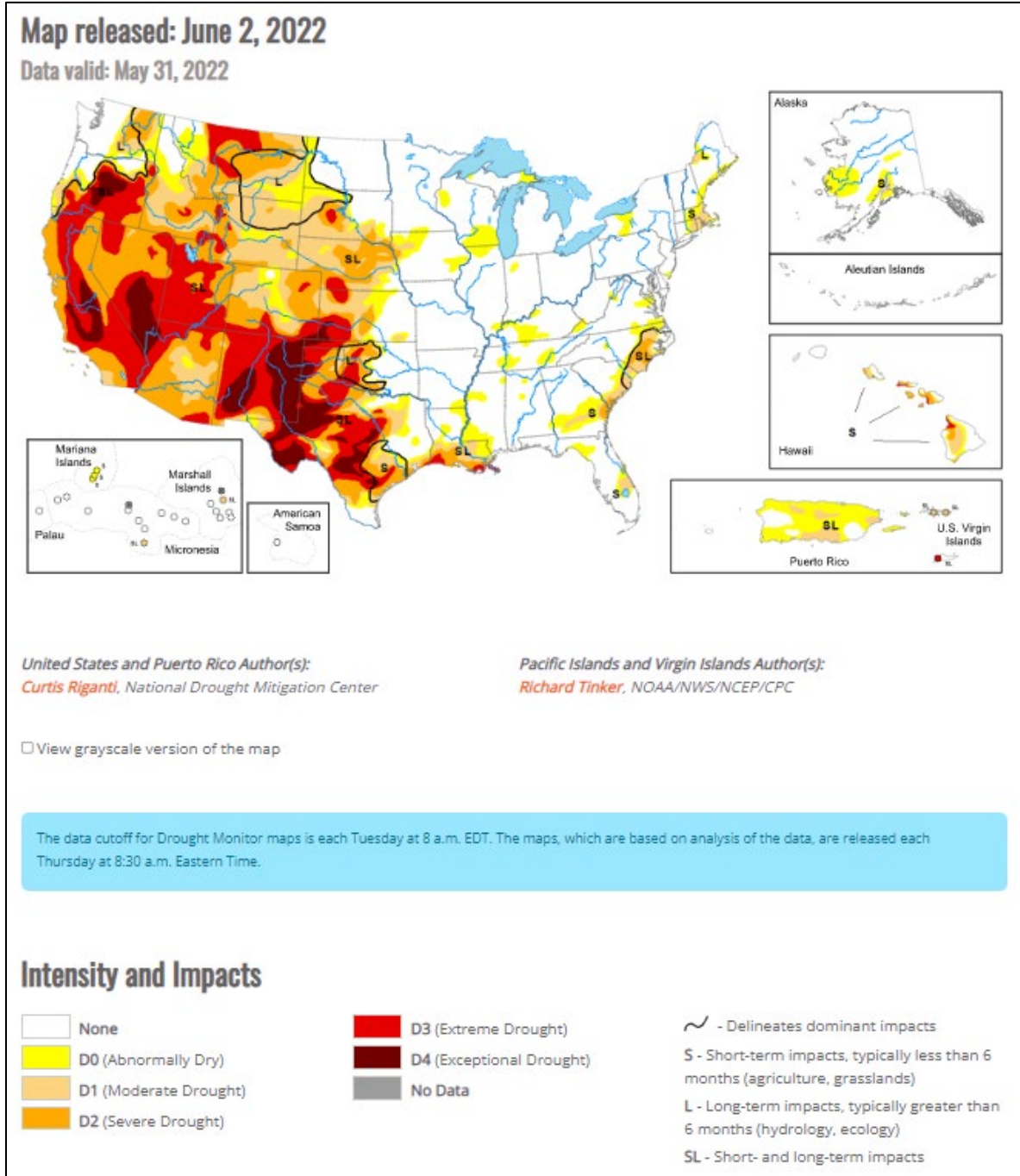
Drought

[U.S. Drought Monitor](#)

Source: National Drought Mitigation Center

[U.S. Drought Portal](#)

Source: NOAA



Current [National Drought Summary](#), May 31, 2022

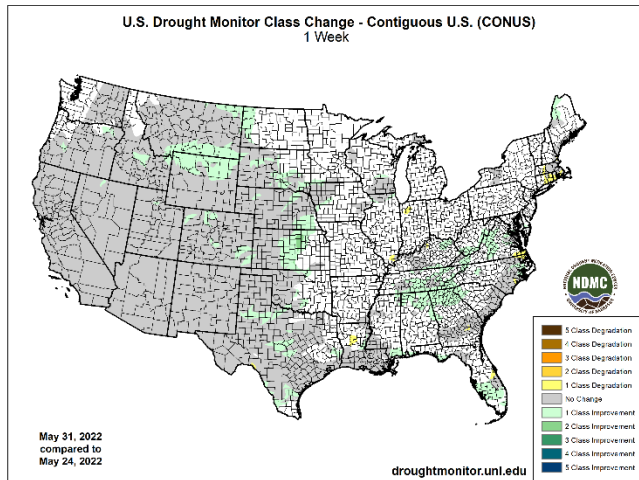
Source: National Drought Mitigation Center

“Heavy precipitation fell across much of the contiguous U.S. over the past week, particularly in the Great Plains, Northwest (especially the northern Rocky Mountains), and the Southeast. Much of this fell as rain, though some mountain snows occurred as well. Meanwhile, the Southwest remained dry, along with northern Montana and most of the Texas Panhandle. Improvements to drought conditions were widespread in the Great Plains, with parts of central Kansas seeing two-category improvements to conditions. Despite the widespread precipitation, drought remained in most of the western Great Plains and western U.S., though it lessened in severity in some areas. A mix of worsening and improving drought conditions occurred in the Southeast and Mid-Atlantic states. Long-term drought improved in northern Maine along the Canadian border, while short-term drought expanded in coverage in southern New England. Short-term abnormal dryness and moderate drought developed in south-central and southwest Alaska. Heavy rains in Puerto Rico led to localized improvements there.”

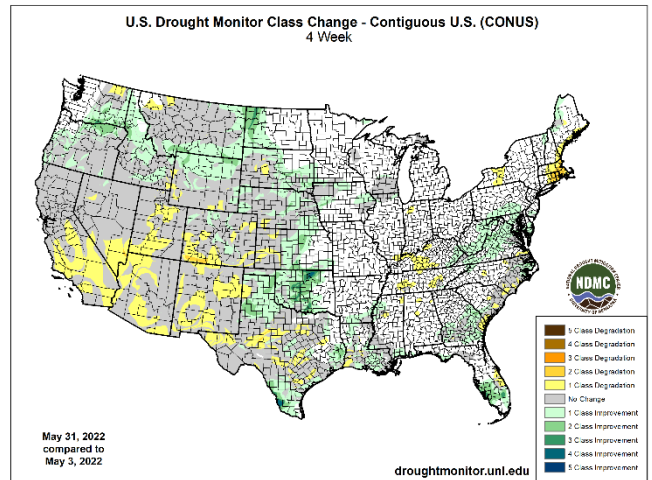
Changes in Drought Monitor Categories over Time

Source: National Drought Mitigation Center

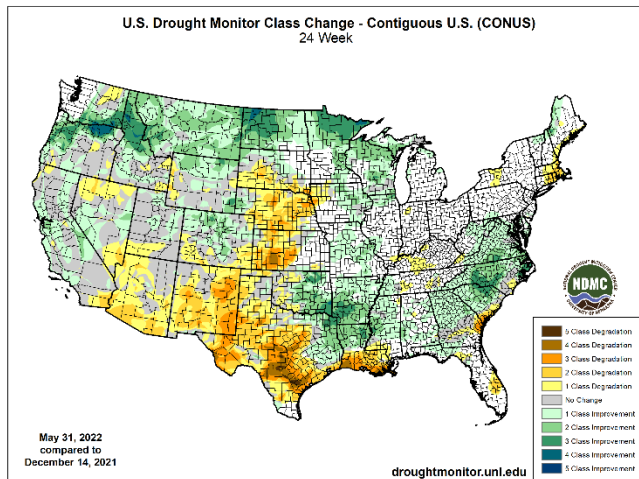
1 Week



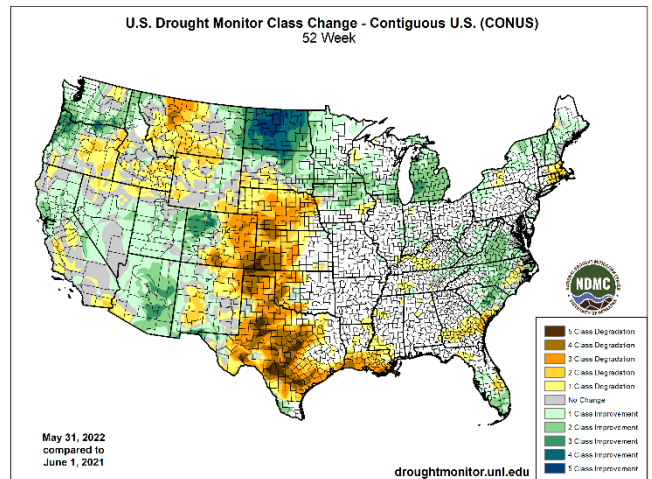
1 Month



6 Months



1 Year



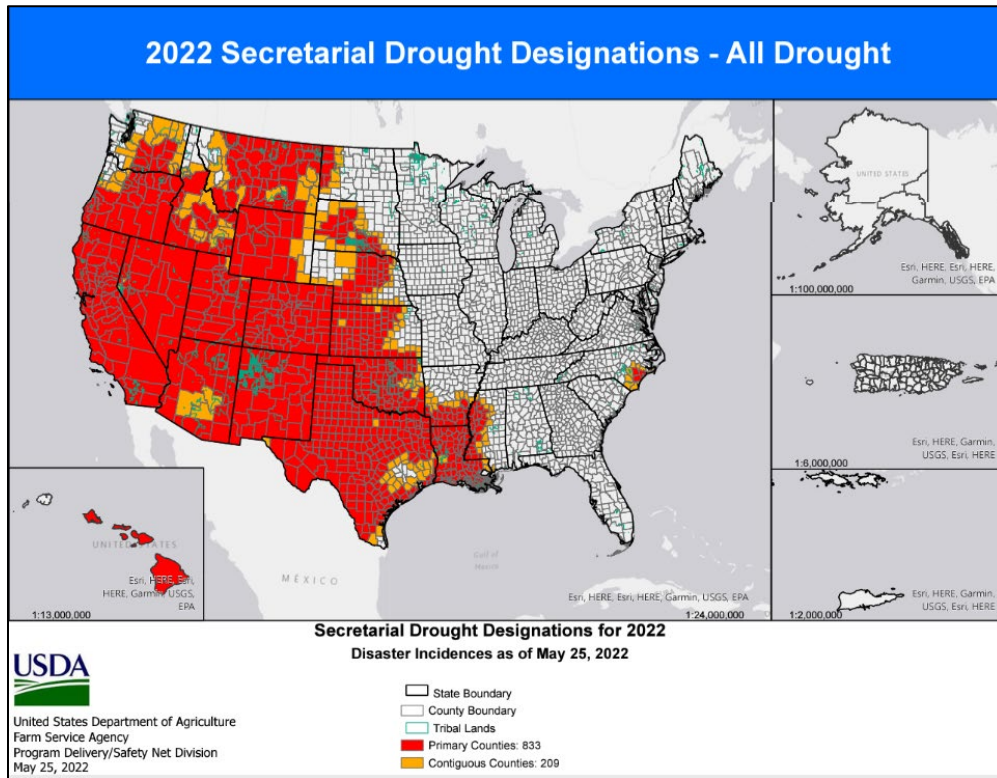
[Changes in drought conditions over the last 12 months for the contiguous U.S.](#)

Highlighted Drought Resources

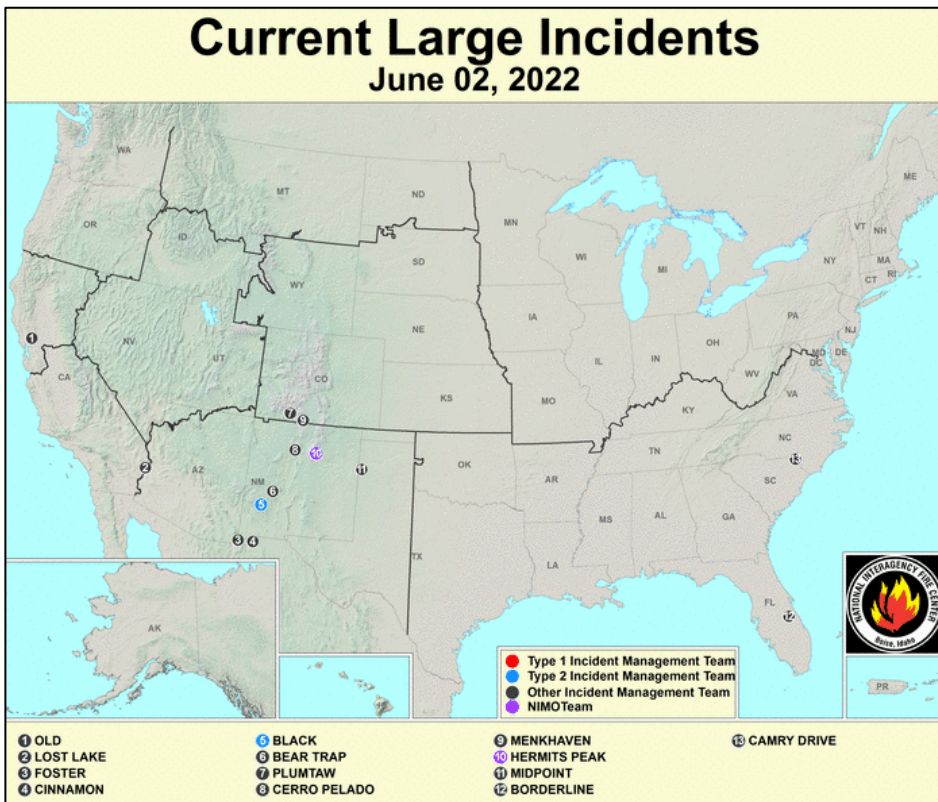
- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

USDA Secretarial Drought Designations

Source: USDA Farm Service Agency



Wildfires: USDA Forest Service Active Fire Mapping



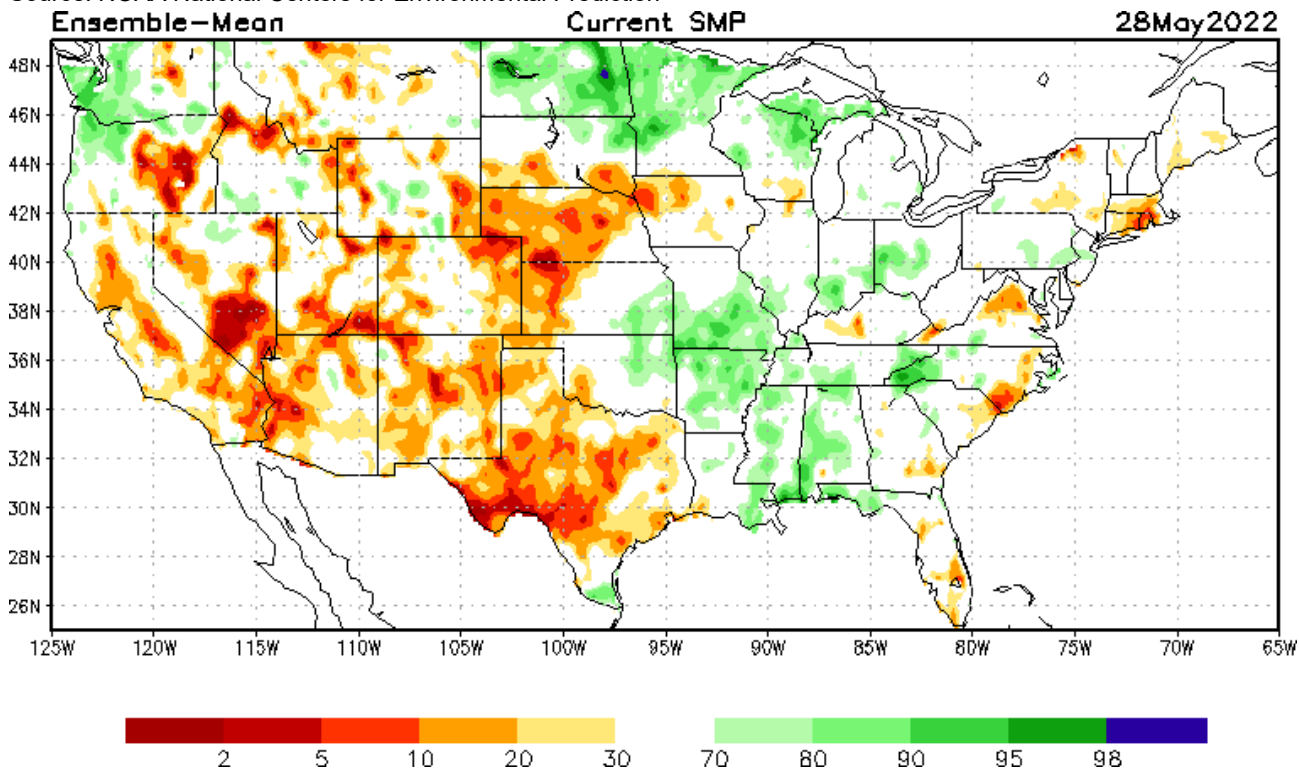
Highlighted Wildfire Resources

- [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

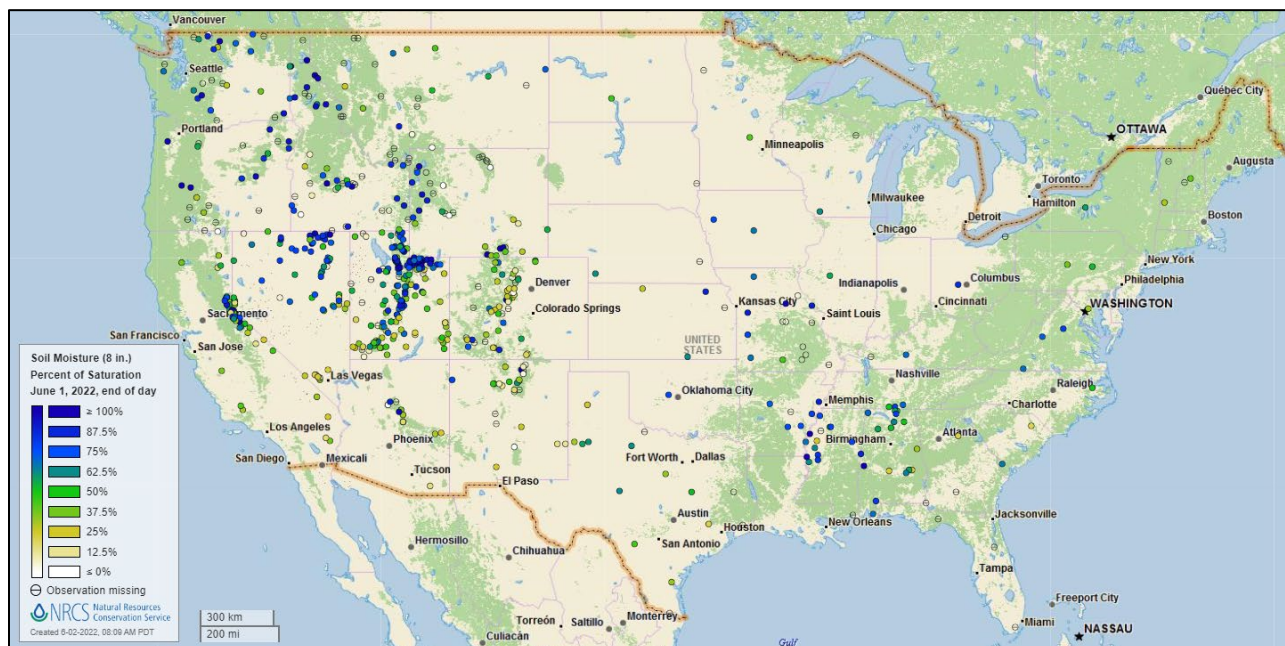


[Modeled soil moisture percentiles](#) as of May 28, 2022

Soil Moisture Percent of Saturation

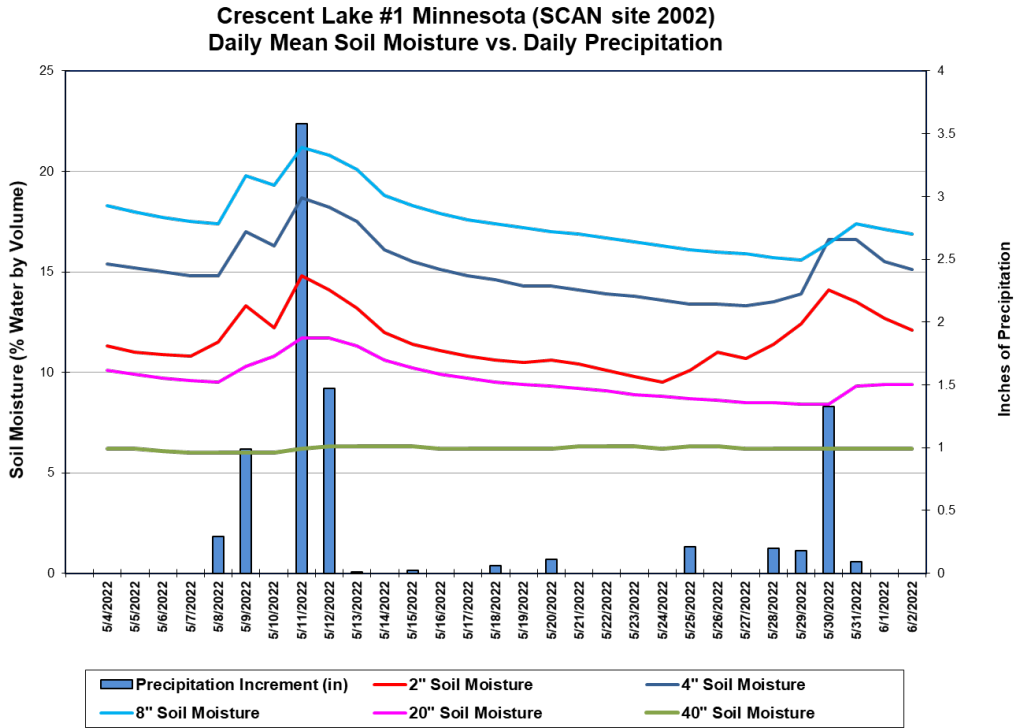
Source: NRCS SNOTEL and [Soil Climate Analysis Network](#) (SCAN)

[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 [Crescent Lake #1](#) SCAN site in Minnesota. The precipitation received during May 11-12 of 5.05 inches caused an increase of soil moisture at all sensor depths. The total precipitation for the period was 8.54 inches.

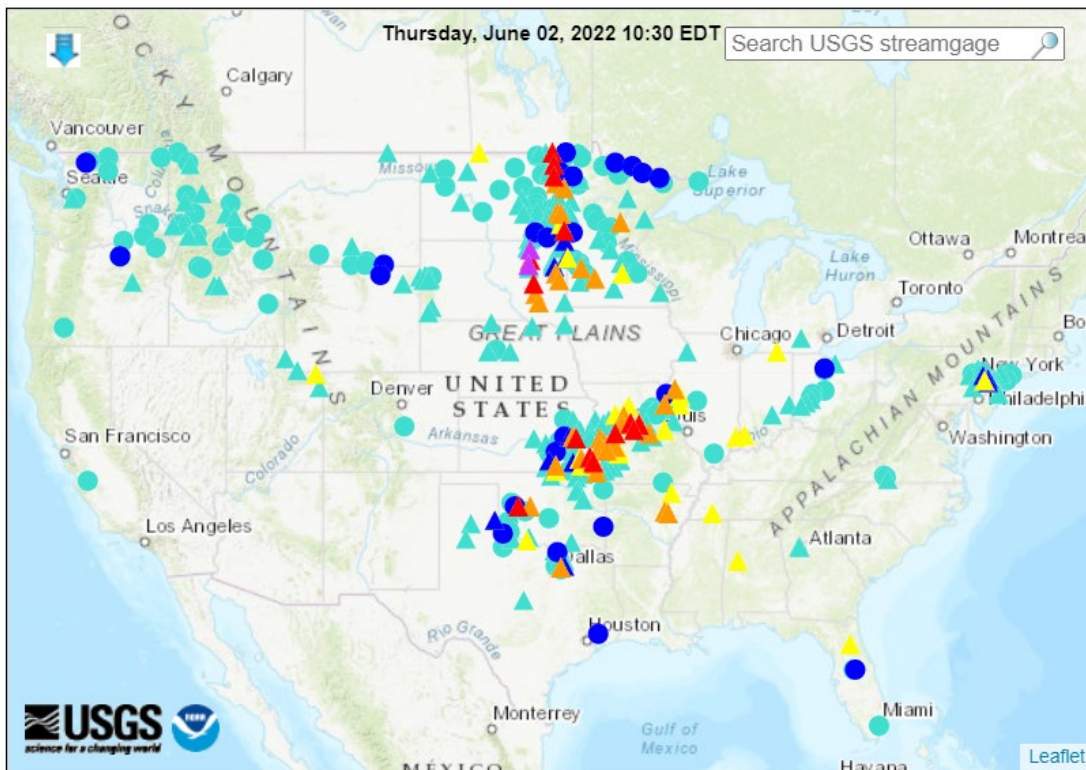
Soil Moisture Data Portals

- [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
 (51 in floods [major: 2, moderate: 14, minor: 35], 28 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

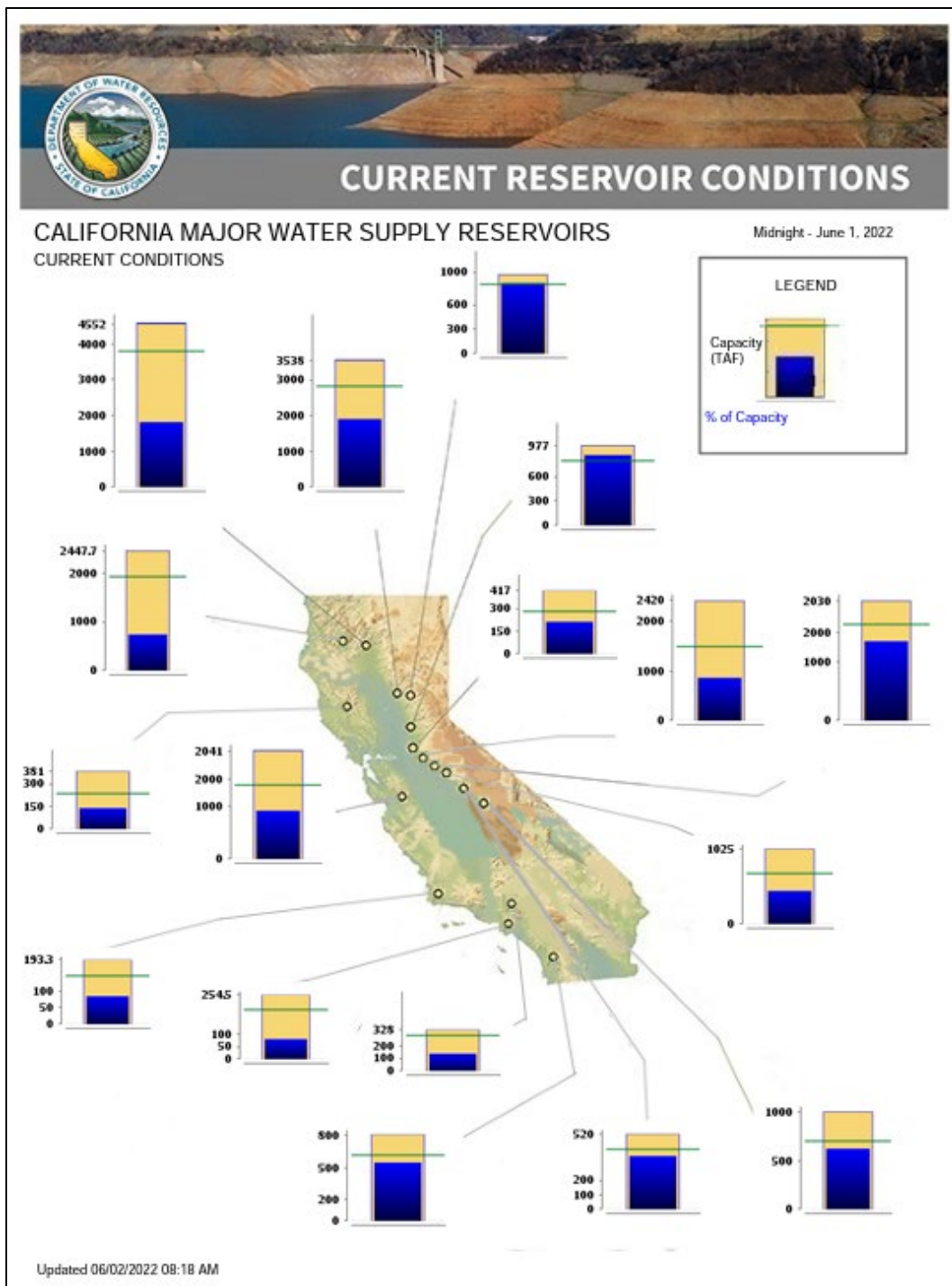
Hydromet Teacup Reservoir Depictions

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, June 02, 2022: “Drought-easing showers and thunderstorms will remain active into the weekend on the southern Plains, as moisture pooled near the tail end of a cold front interacts with a new storm system arriving in the Northwest. Five-day rainfall totals could reach 1 to 2 inches or more across the Plains and Northwest, while dry weather will persist from central and southern California to western sections of Colorado and New Mexico. Meanwhile, late-week showers and thunderstorms will traverse the northern and middle Atlantic States. During the weekend and early next week, extreme heat will develop across the southcentral U.S., including Texas, while chilly conditions will persist across the North. Elsewhere, widespread showers will return across the Midwest during the weekend, while downpours (locally 5 to 10 inches or more) across southern Florida could result in flooding, regardless of further tropical development. The NWS 6- to 10-day outlook for June 7 – 11 calls for below-normal temperatures across the northern and central Plains and the Midwest, while hotter-than-normal weather will span the South and much of the Far West. Meanwhile, near- or above-normal rainfall across most of the country should contrast with drier-than-normal conditions in the Great Basin and Intermountain West.”

Weather Hazards Outlook: [June 04 – 08, 2022](#)

Source: NOAA Weather Prediction Center

U.S. Day 3-7 Hazards Outlook

[About the Hazards Outlook](#)

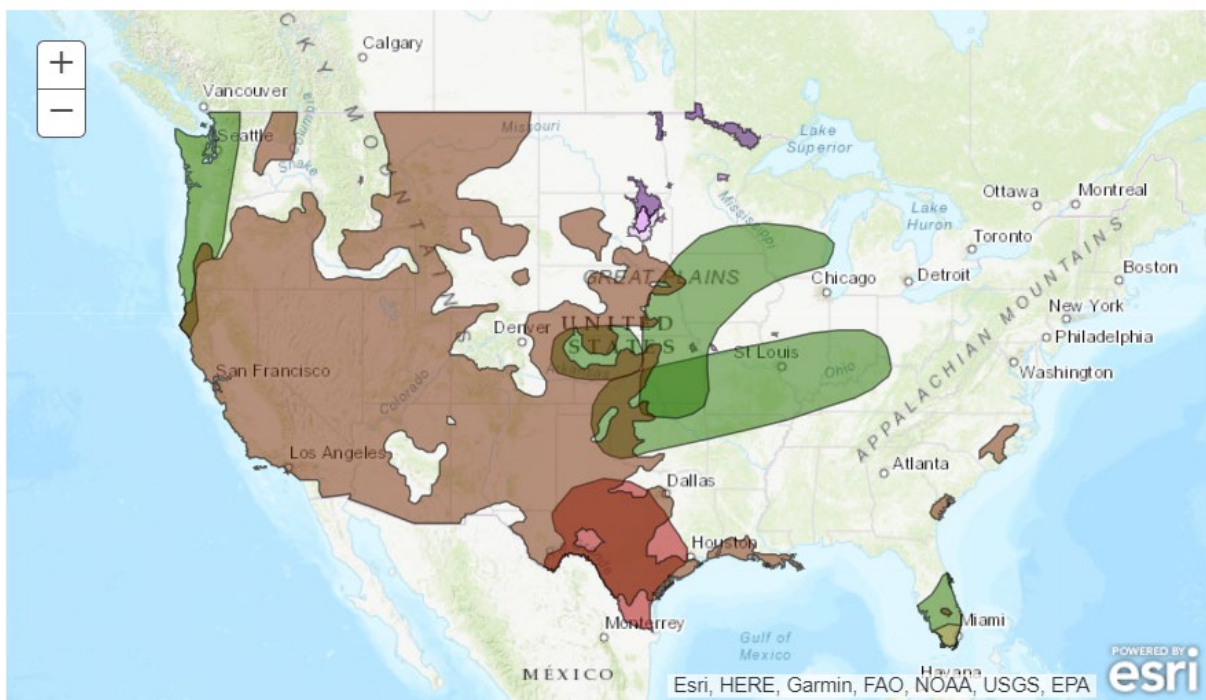
Created June 01, 2022

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 June 04, 2022 - June 08, 2022

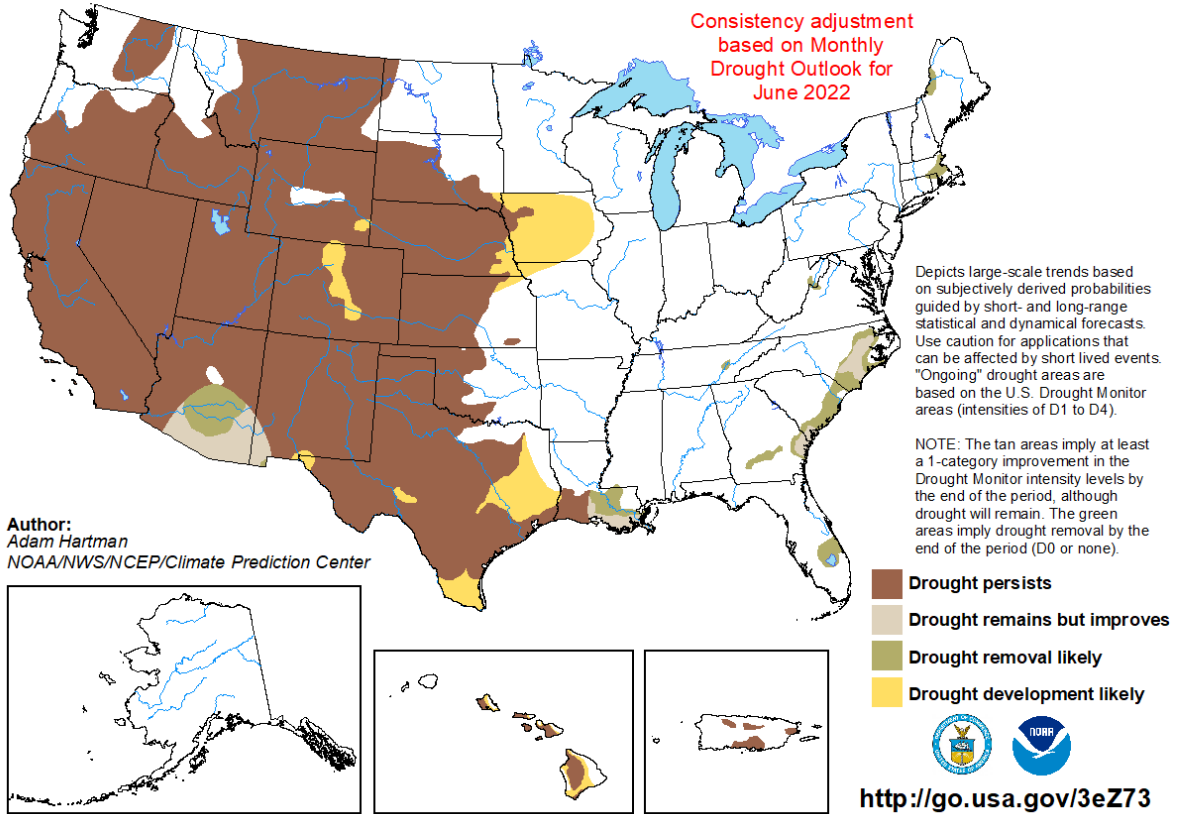


Seasonal Drought Outlook: [June 01 – August 31, 2022](#)

Source: National Weather Service

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

Valid for June 1 - August 31, 2022
Released May 31, 2022

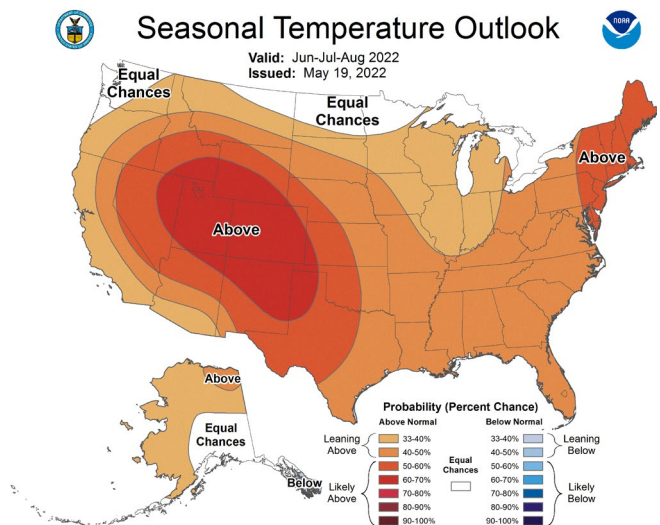
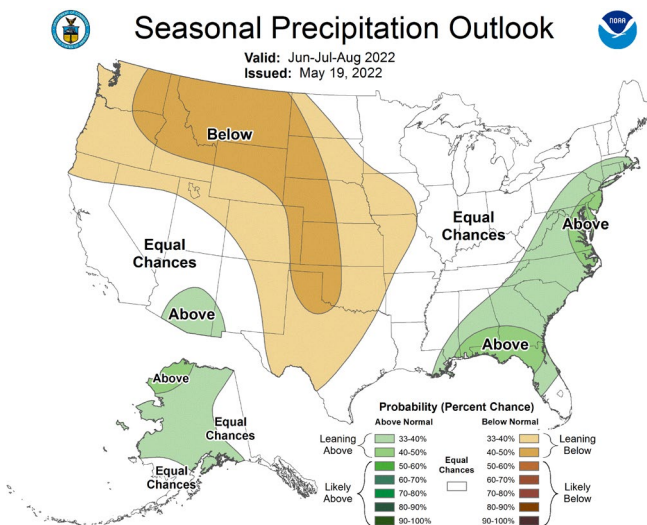


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[June-July-August 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](#).