



Drought Information Statement for Southeast Arizona

Valid October 23, 2023

Issued By: NWS Tucson, AZ

Contact Information: w-twc.webmaster@noaa.gov

- This product will be updated Nov. 20, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/twc/DroughtInformationStatement> for previous statements.



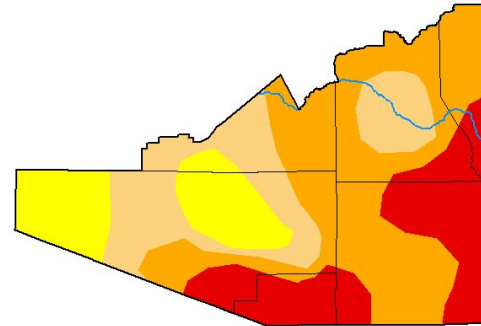


U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for southeast Arizona

- EXTREME DROUGHT CONDITIONS REMAIN ACROSS PORTIONS OF SOUTHEAST ARIZONA
- Drought intensity and Extent
 - D3 (Extreme Drought): Santa Cruz County, south central Pima, southwest and eastern Cochise, southeast Graham county and southern Greenlee county.
 - D2 (Severe Drought): Adjacent sections of southern and eastern Pima, Pinal and Graham counties, the remainder of Cochise and Greenlee counties.
 - D1 (Moderate Drought)/D0 Abnormally Dry: The rest of southeast Arizona not under D2 or D3.

U.S. Drought Monitor Tucson, AZ WFO



October 17, 2023
(Released Thursday, Oct. 19, 2023)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.01	99.99	84.62	62.26	23.14	0.00
Last Week 10-10-2023	0.01	99.99	84.62	62.26	23.14	0.00
3 Months Ago 07-18-2023	61.84	38.16	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2023	36.54	63.46	16.27	0.00	0.00	0.00
Start of Water Year 09-26-2023	0.01	99.99	84.66	54.83	23.11	0.00
One Year Ago 10-18-2022	0.00	100.00	32.94	9.61	0.00	0.00

Intensity

	None		D2 Severe Drought
	D0 Abnormally Dry		D3 Extreme Drought
	D1 Moderate Drought		D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author

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NCEI/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT October 17th.



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

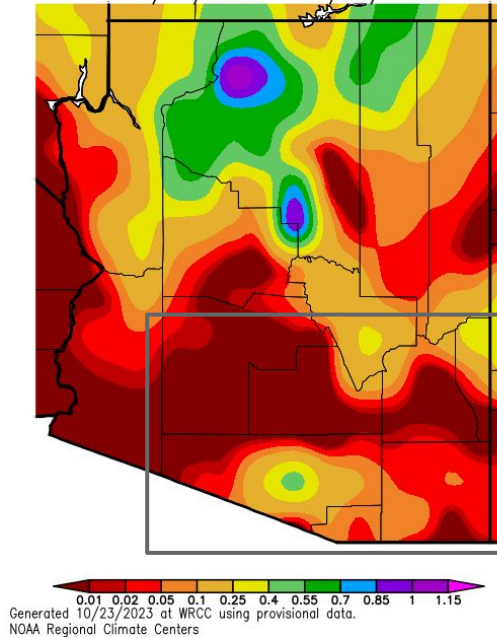
National Weather Service
Tucson, AZ



Precipitation

- Isolated areas of 0.25" to 0.50" during the past month with most areas recording less than a tenth (0.10") of an inch.

Total Precipitation (in.)
9/23/2023 – 10/22/2023



Percent of Average Precipitation (%)
9/23/2023 – 10/22/2023

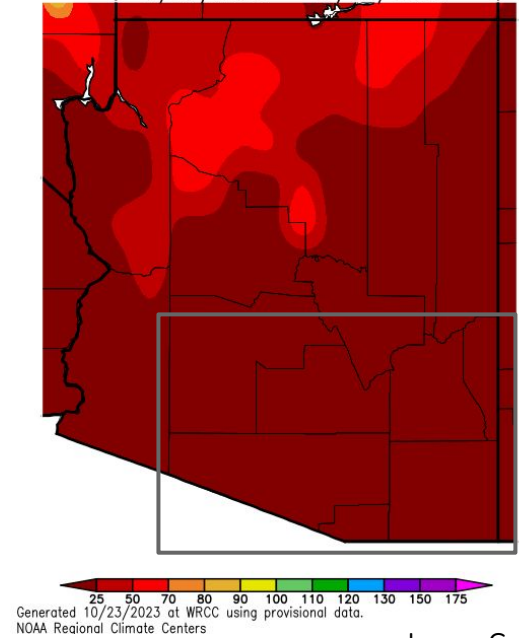


Image Captions:

- Left - [Precipitation Amount for Arizona w/southeast Arizona in highlighted gray box](#)
- Right - [Percent of Normal Precipitation for Arizona w/southeast Arizona in highlighted gray box](#)

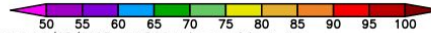
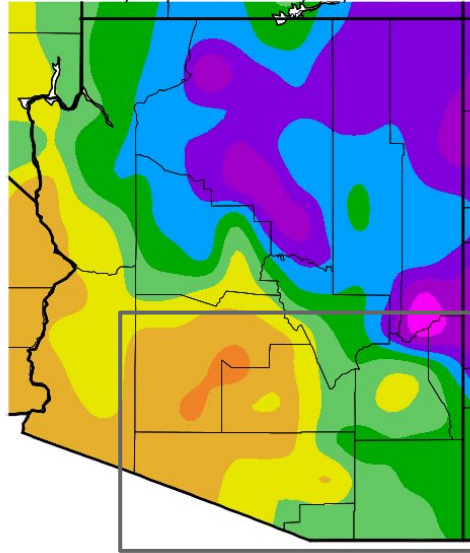
Data Courtesy Western Regional Climate Center
Data over the past 30 days ending October 22, 2023



Temperature

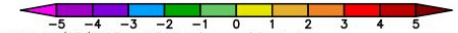
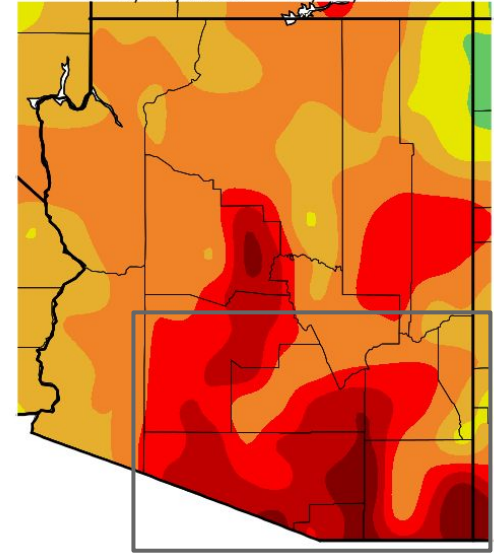
- Average temperatures over the past 30 days were 1° to 4° above normal for most of southeast Arizona.

Ave. Temperature (deg. F)
9/23/2023 – 10/22/2023



Generated 10/23/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

Ave. Temperature dep from Ave (deg F)
9/23/2023 – 10/22/2023



Generated 10/23/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

Image Captions:

Left - [Average Temperature for Arizona w/southeast Arizona in highlighted gray box](#)

Right - [Departure from Normal Temperature for Arizona w/southeast Arizona in highlighted gray box](#)

Data Courtesy Western Regional Climate Center.

Data over the past 30 days ending October 22, 2023





Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

Hydrologic Impacts

- Streamflow across much of the area continues to be below to much below normal for this time of year. The San Pedro River Basin and portions of the Upper Gila River Basin are at less than 10th percentile for this time of year.

Agricultural Impacts

- Soil moisture values are below the 5th percentile in most of southeast Arizona. Without additional rainfall, this could make some areas more susceptible to blowing dust.

Fire Hazard Impacts

- Record heat and below normal precipitation has resulted in fuel dryness levels that are much drier than normal. As a result, the threat of grass fires on windier days is higher than normal for this time of year until significant precipitation occurs.

Mitigation Actions

- Please refer to your municipality and/or water provider for mitigation information.

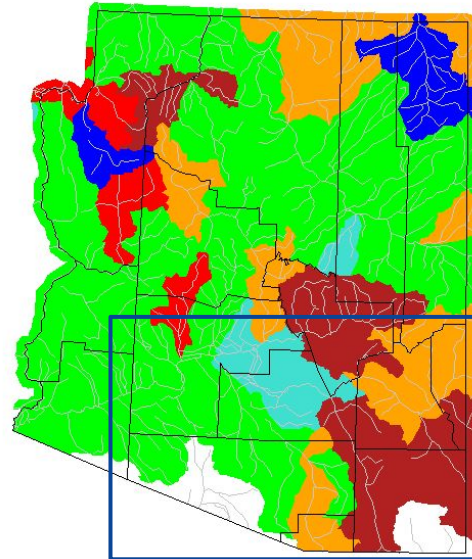




Hydrologic Conditions and Impacts

- Streamflow across much of the area continues to be below to much below normal for this time of year. The San Pedro River Basin and portions of the Upper Gila River Basin are at less than 10th percentile for this time of year.

Sunday, October 22, 2023



Explanation - Percentile classes						
	<10	10-24	25-75	76-90	>90	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High
						No Data

Image Caption: USGS 7 day average streamflow HUC map valid October 22, 2023

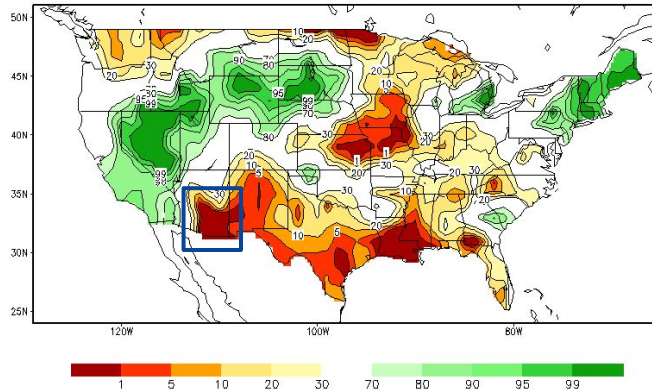




Agricultural Impacts

- Soil moisture values are below the 5th percentile across southeast Arizona. This could make some areas more susceptible to blowing dust.

Calculated Soil Moisture Ranking Percentile
OCT 22, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending OCT 21, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

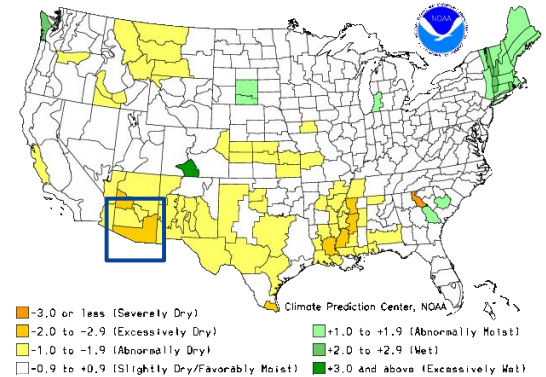


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid October 22, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending October 21, 2023





Seven Day Precipitation Forecast

- A weather system moving in from the west will tap into some tropical moisture for a chance of much needed rain Monday night through Thursday, mainly from Tucson east and south.

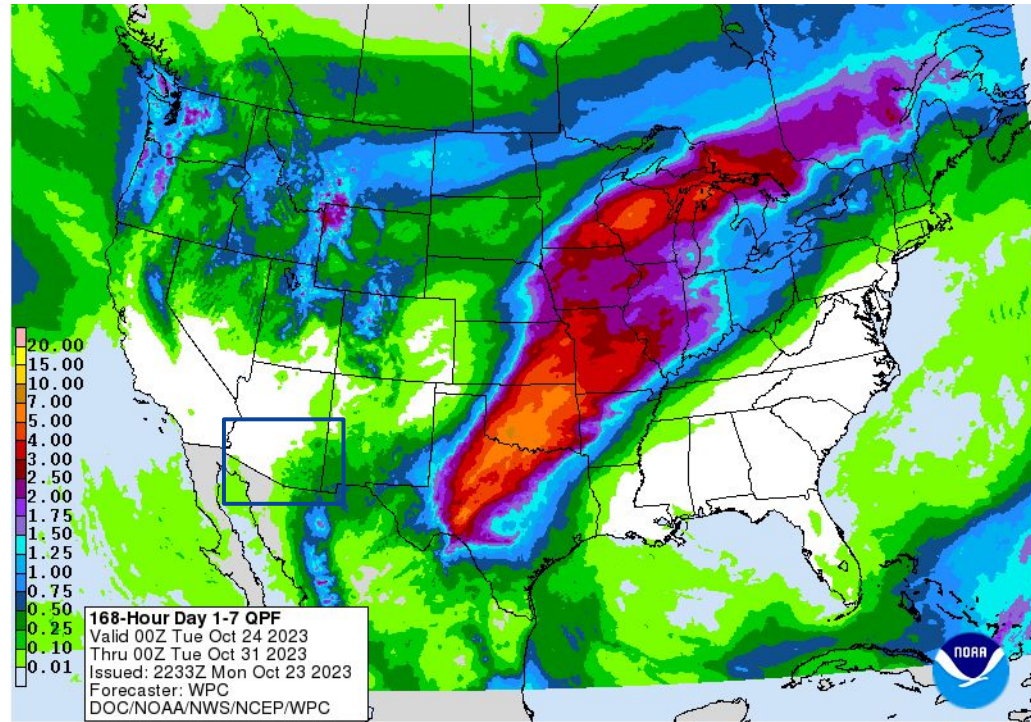


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Monday October 23 to Monday October 30





Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- The Climate Prediction Center outlook for November through January shows equal odds for either above, near or below normal seasonal mean temperatures and seasonal total precipitation for southeast Arizona

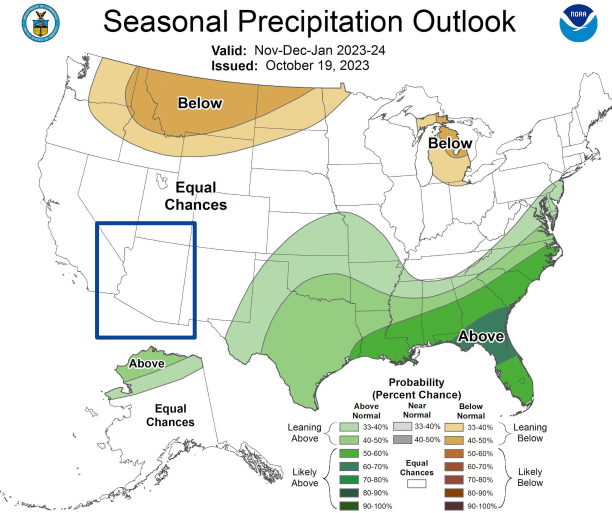
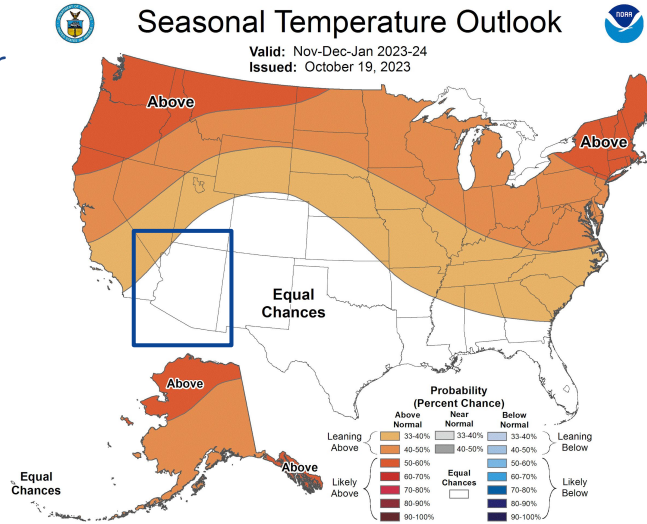


Image Captions:

Left - [Climate Prediction Center Seasonal Temperature Outlook](#).

Right - [Climate Prediction Center Seasonal Precipitation Outlook](#).

Valid November 2023 through January 2024





Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- Drought conditions are likely to persist in early 2024.

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for October 19, 2023 - January 31, 2024
Released October 19, 2023

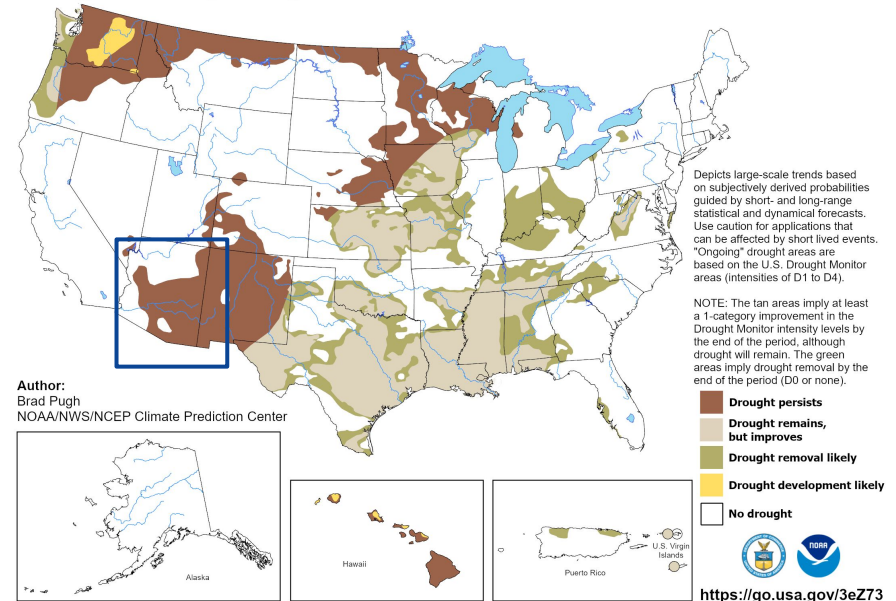


Image Caption:

Climate Prediction Center Seasonal Drought Outlook Released October 19, 2023 valid through January 31, 2024

Links to the latest:

- [Climate Prediction Center Monthly Drought Outlook](#)
- [Climate Prediction Center Seasonal Drought Outlook](#)

