

# It's Summer!



Summer starts today at 1:51PM AZ time



Daylight starts decreasing, heading to December Solstice

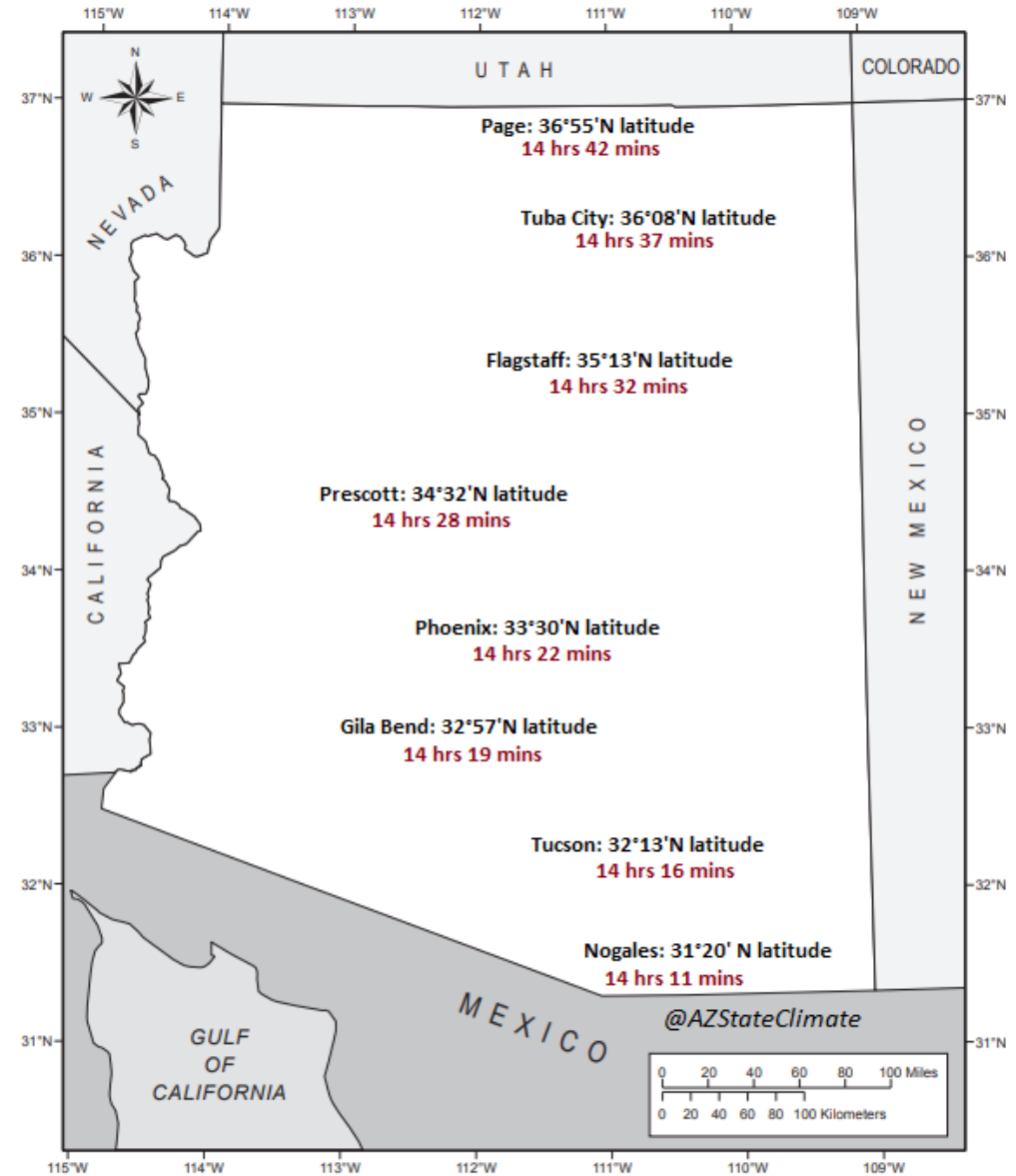


Northern hemisphere is tilted toward the sun

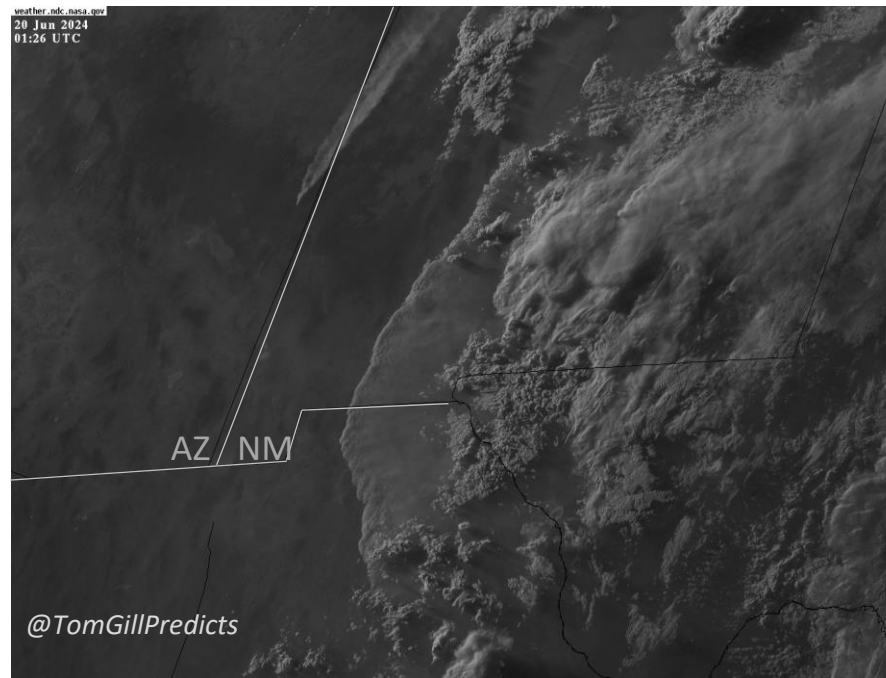


The earth is farthest from the sun (aphelion July 4 10:06PM AZ time)

## June solstice daylight hours, 2024

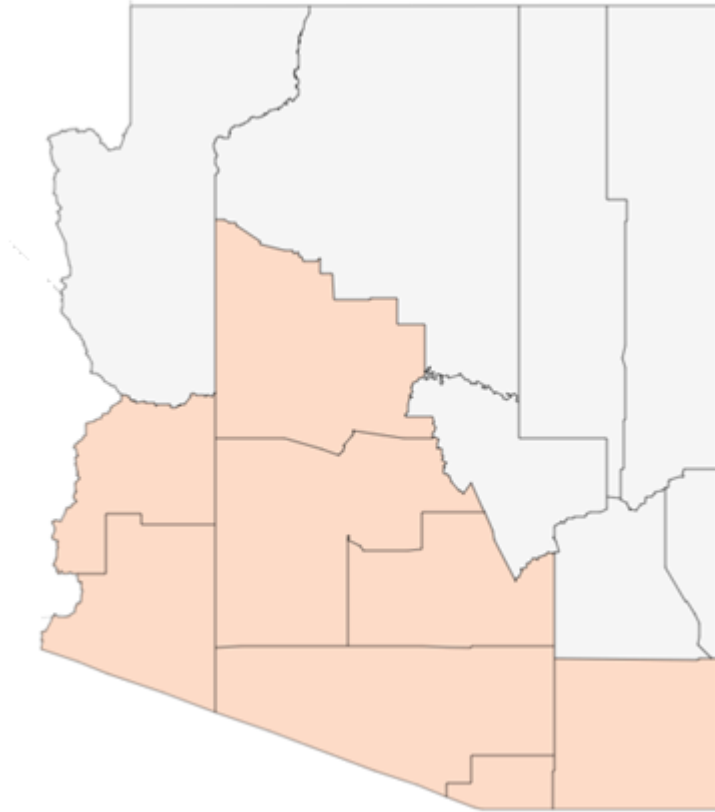


# Dust storm? or haboob?



# May 2024: warmer

Temp: 66.7°F Rank: 43<sup>rd</sup> warmest Anomaly: 1.7°F



## Monthly County Average Temperature

May 2024

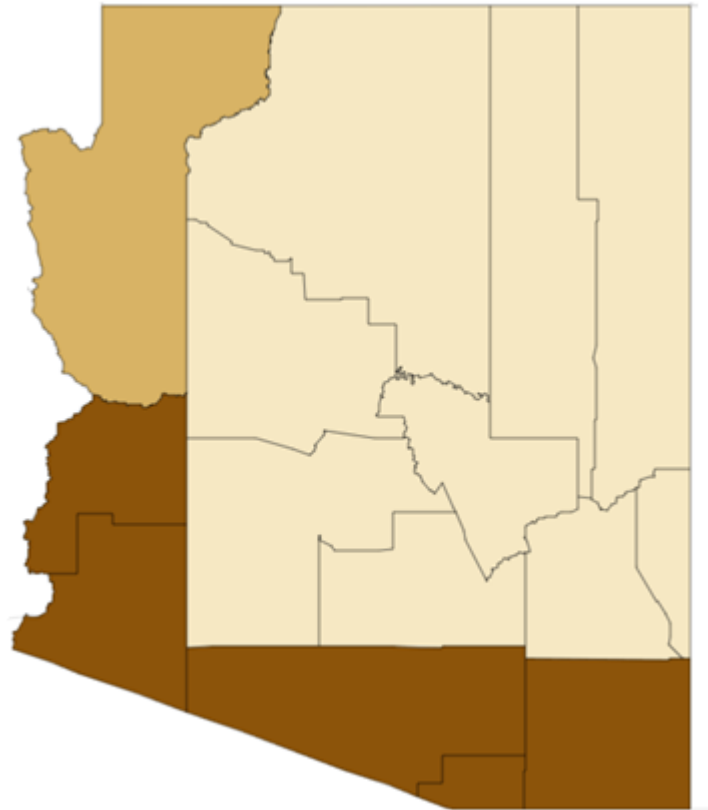
*Preliminary data from NOAA/NCEI*

Arizona Counties	Temp	Depart	Rank
Apache	56.4°	0.3°	63 <sup>rd</sup> warmest
Cochise	67.8°	1.5°	40 <sup>th</sup> warmest
Coconino	59.2°	1.3°	50 <sup>th</sup> warmest
Gila	64.9°	1.2°	49 <sup>th</sup> warmest
Graham	67.4°	1.3°	44 <sup>th</sup> warmest
Greenlee	62.1°	0.7°	54 <sup>th</sup> warmest
La Paz	78.6°	2.8°	31 <sup>st</sup> warmest
Maricopa	77.0°	2.5°	36 <sup>th</sup> warmest
Mohave	68.9°	1.9°	48 <sup>th</sup> warmest
Navajo	59.0°	1.3°	47 <sup>th</sup> warmest
Pima	73.5°	1.9°	42 <sup>nd</sup> warmest
Pinal	75.5°	2.1°	37 <sup>th</sup> warmest
Santa Cruz	66.7°	2.0°	32 <sup>nd</sup> warmest
Yavapai	64.8°	1.8°	42 <sup>nd</sup> warmest
Yuma	78.2°	2.5°	32 <sup>nd</sup> warmest

Record coldest	Top 10% coldest	Top 33% coldest	Normal	Top 33% warmest	Top 10% warmest	Record warmest
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# May 2024: very dry

Total: 0.04" Rank: 12<sup>th</sup> driest Anomaly: -0.30"

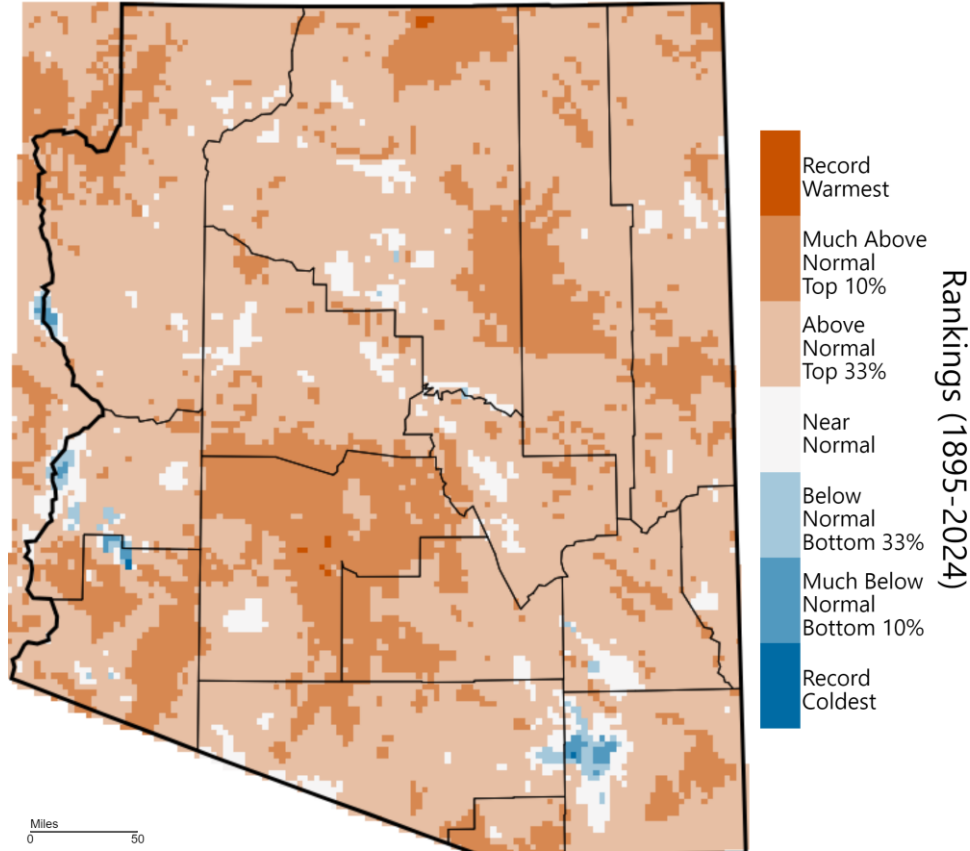


Monthly County Precipitation			
May 2024			
<i>Preliminary data from NOAA/NCEI</i>			
Arizona Counties	Total	Depart	Rank
Apache	0.11"	-0.43"	28 <sup>th</sup> driest
Cochise	0.00"	-0.23"	tied 1 <sup>st</sup> driest
Coconino	0.11"	-0.40"	25 <sup>th</sup> driest
Gila	0.07"	-0.42"	35 <sup>th</sup> driest
Graham	0.03"	-0.30"	25 <sup>th</sup> driest
Greenlee	0.08"	-0.35"	34 <sup>th</sup> driest
La Paz	0.00"	-0.07"	tied 1 <sup>st</sup> driest
Maricopa	0.01"	-0.12"	32 <sup>nd</sup> driest
Mohave	0.02"	-0.31"	12 <sup>th</sup> driest
Navajo	0.05"	-0.40"	19 <sup>th</sup> driest
Pima	0.00"	-0.17"	tied 1 <sup>st</sup> driest
Pinal	0.01"	-0.22"	25 <sup>th</sup> driest
Santa Cruz	0.00"	-0.23"	tied 1 <sup>st</sup> driest
Yavapai	0.04"	-0.35"	29 <sup>th</sup> driest
Yuma	0.00"	-0.03"	tied 1 <sup>st</sup> driest

Record driest	Top 10% driest	Top 33% driest	Normal	Top 33% wettest	Top 10% wettest	Record wettest
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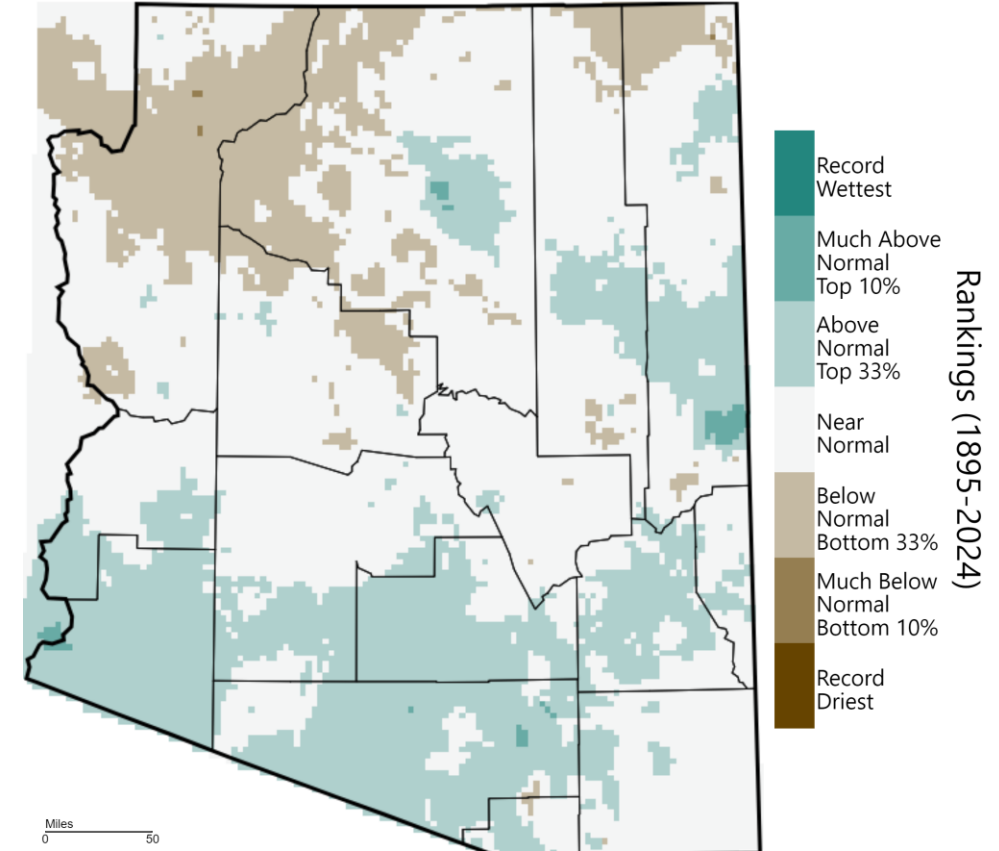
# WY2024: warmer and some wet, some dry

**Arizona - Mean Temperature**  
October 2023 - May 2024, Percentile



WestWide Drought Tracker, WRCC, Climate Engine, Data Source: PRISM Prelim, created 05 Jun 2024

**Arizona - Precipitation**  
October 2023 - May 2024, Percentile

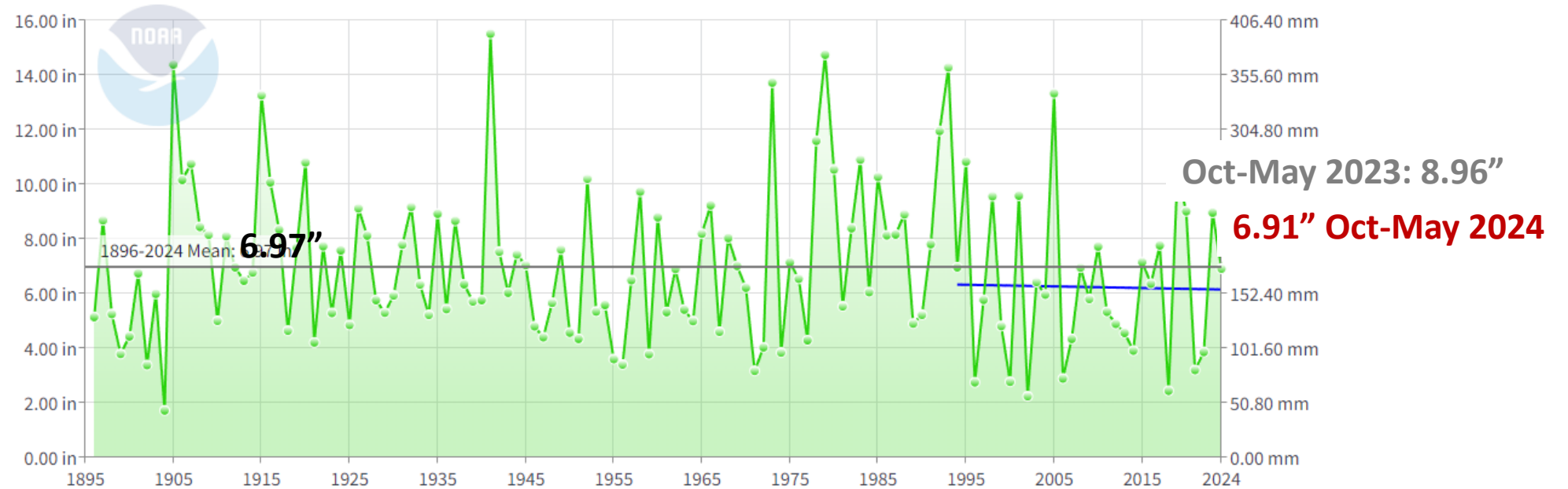


WestWide Drought Tracker, WRCC, Climate Engine, Data Source: PRISM Prelim, created 05 Jun 2024

# WY2024: slightly below average

## Arizona Precipitation

October-May



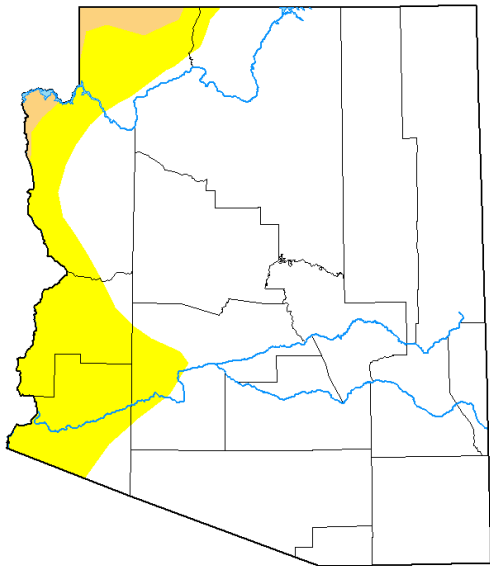
*20 of last 30 water years have been below long-term average*

*Long-term WY average 12.27"*

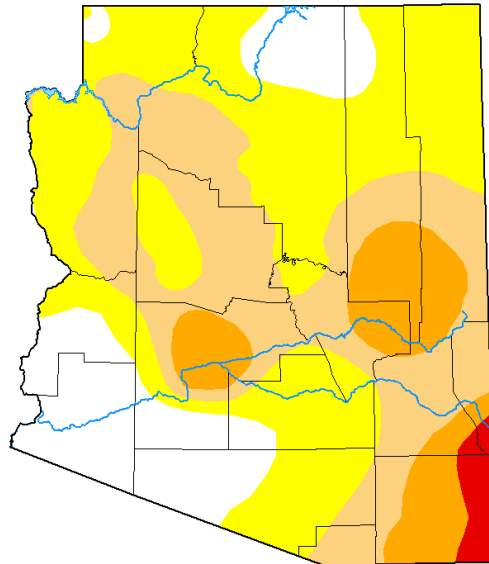
*1994-2023 WY average 11.29"*

# 20% of state currently in short-term drought

1 year ago: June 20, 2023

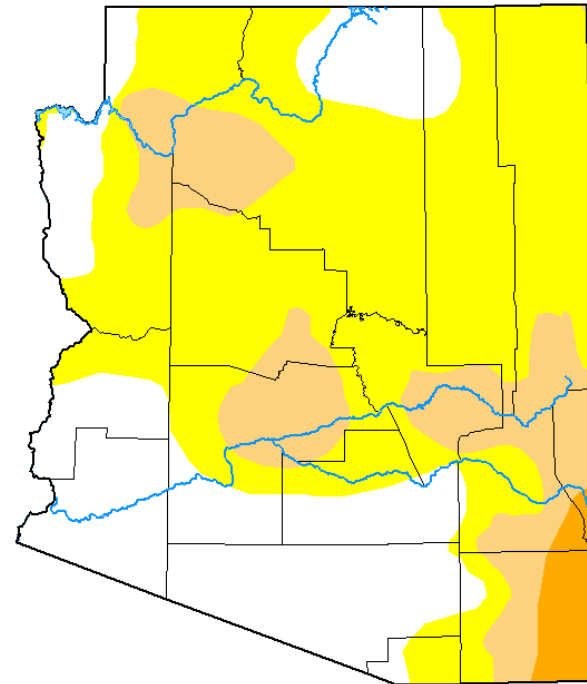


3 months ago: March 19, 2024



Last year, many smaller wildfires  
No exceptionally large wildfires

## U.S. Drought Monitor Arizona



**June 18, 2024**  
(Released Thursday, Jun. 20, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	28.69	71.31	19.98	3.12	0.00	0.00
<b>Last Week</b> 06-11-2024	28.69	71.31	19.98	3.12	0.00	0.00
<b>3 Months Ago</b> 03-19-2024	17.42	82.58	42.56	13.19	1.83	0.00
<b>Start of Calendar Year</b> 01-02-2024	5.62	94.38	53.37	33.54	5.75	0.00
<b>Start of Water Year</b> 09-26-2023	8.12	91.88	47.06	22.74	5.34	0.00
<b>One Year Ago</b> 06-20-2023	83.41	16.59	1.46	0.00	0.00	0.00

Intensity

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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>

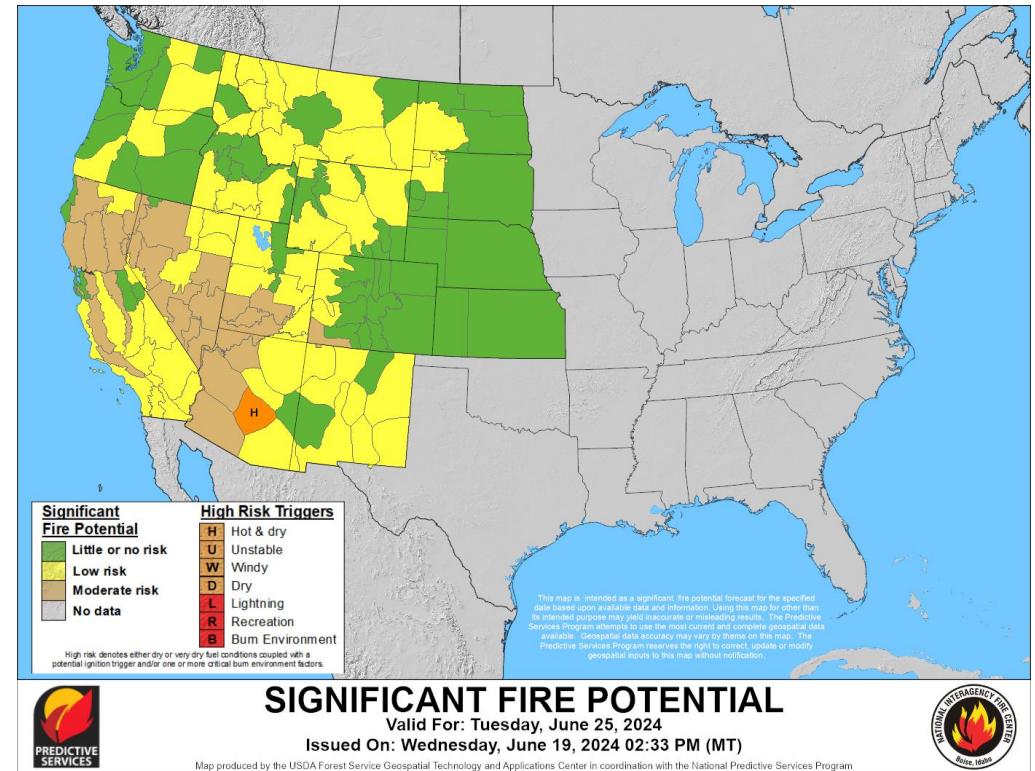
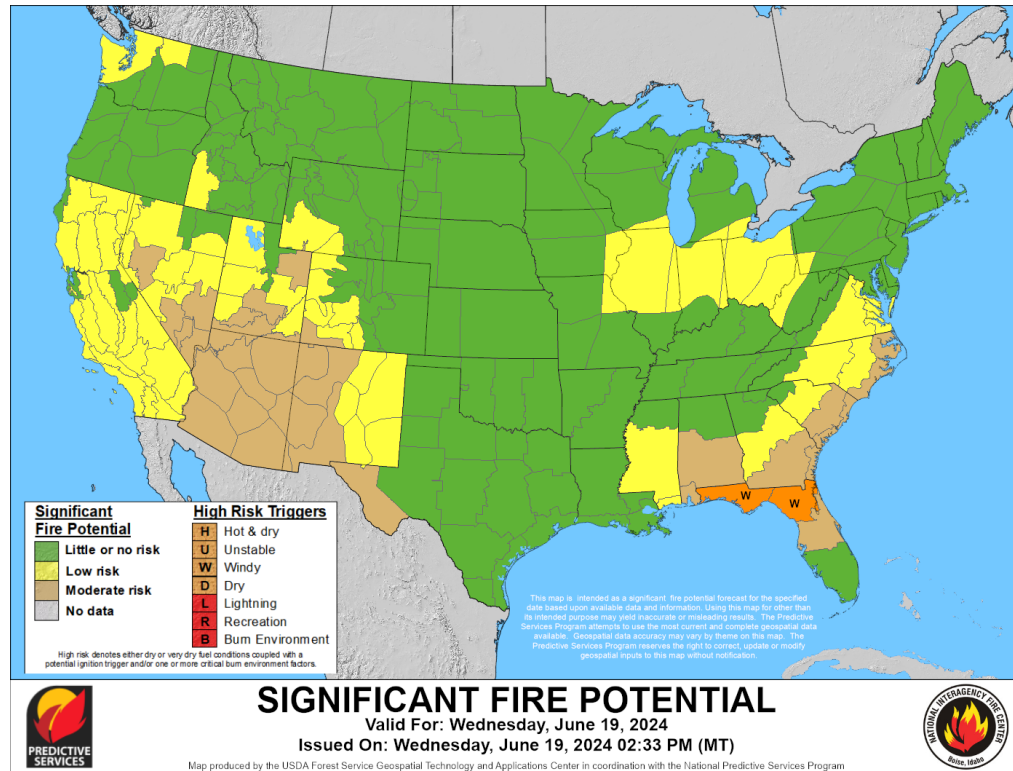
Author:

Richard Tinker  
CPC/NOAA/NWS/NCEP



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# Significant Wildland Fire Potential: next 7 days





# ENSO neutral conditions are present

## La Nina 65% chance develop Jul-Sep and persist Nov-Jan

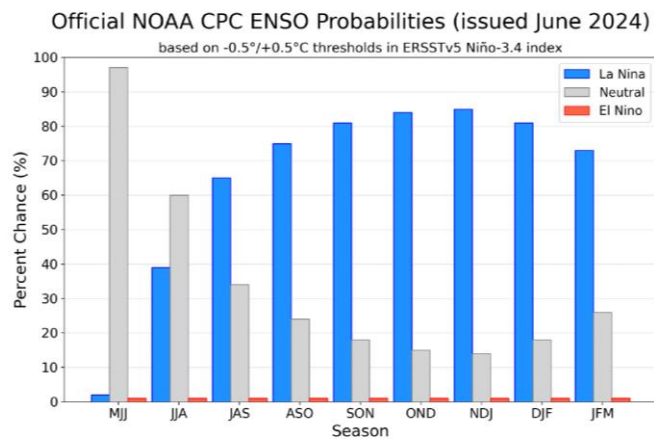


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N-5°S, 120°W-170°W). Figure updated 13 June 2024.

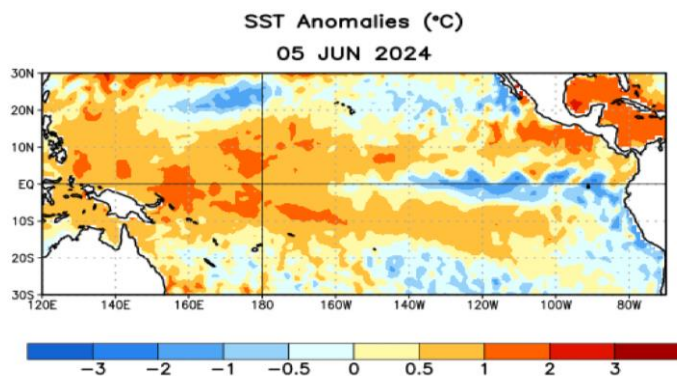


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 5 June 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

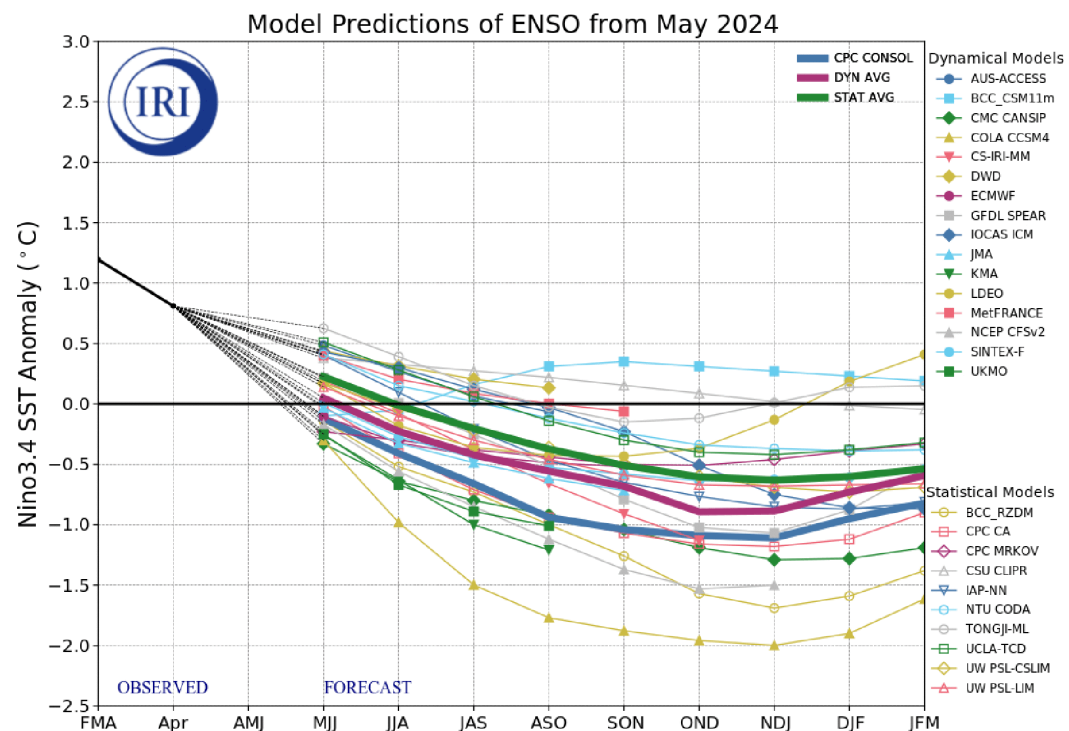


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 20 May 2024 by the International Research Institute (IRI) for Climate and Society.

## Will it be a hot cocoa day?

Year	Winter <i>(prev Dec-Mar)</i>	Summer <i>(Jun-Sep)</i>
2016	Dry <i>(El Nino)</i>	Wet
2017	Wet <i>(Neutral)</i>	Dry
2018	Dry <i>(La Nina)</i>	Wet
2019	Wet <i>(El Nino)</i>	Dry
2020	Wet <i>(Neutral)</i>	Dry
2021	Dry <i>(La Nina)</i>	Wet
2022	Dry <i>(La Nina)</i>	Wet
2023	Wet <i>(La Nina)</i>	Dry
2024	Wet <i>(El Nino)</i>	???



Wet or Dry based on above or below long-term average

@AZStateClimate