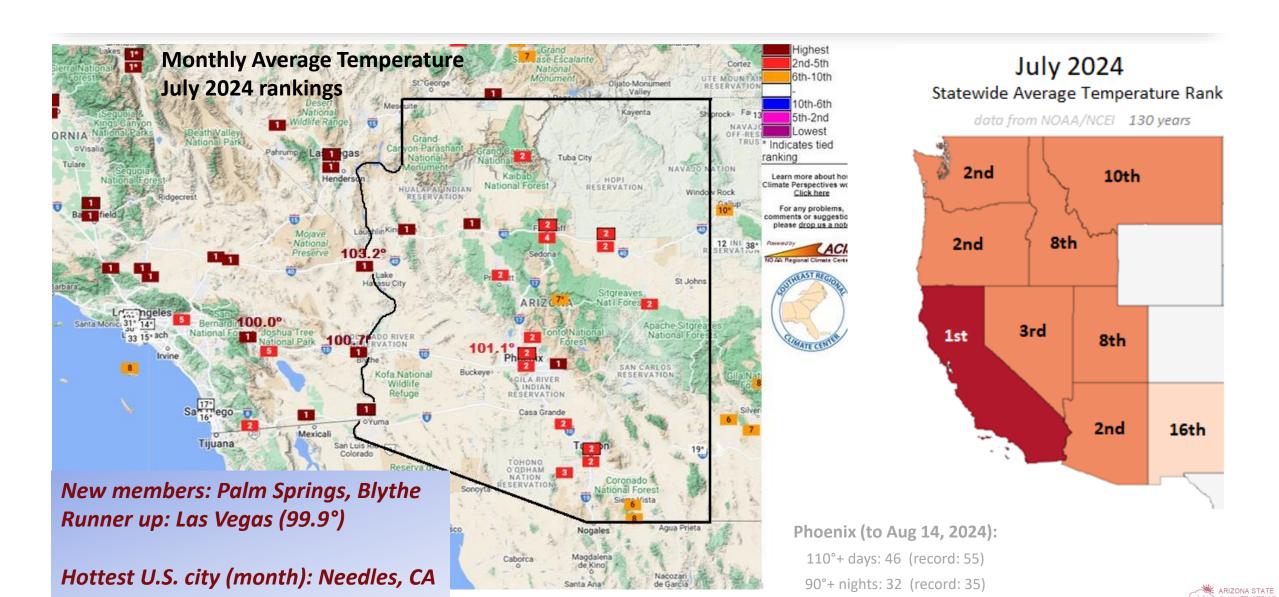
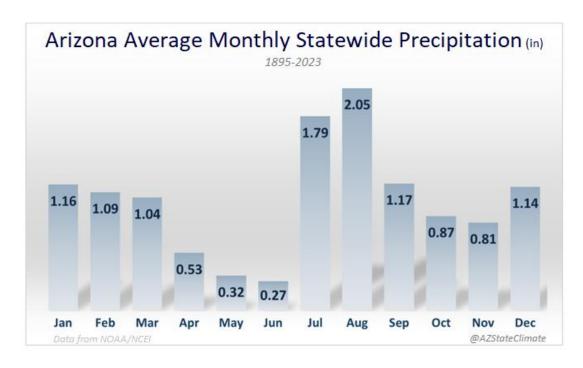
### The 100°+ month club...



### Some better news!

August (statewide) is the wettest month



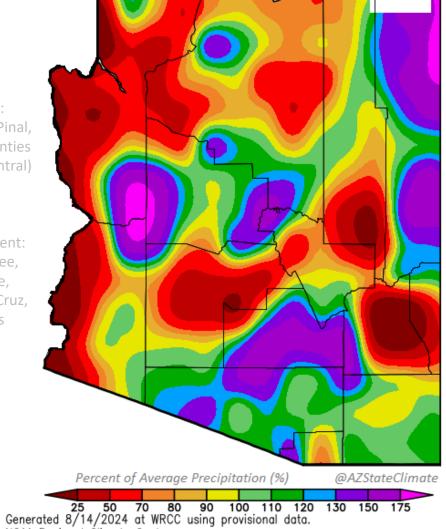
Southern tier gets up to ¾ annual precip in summer Rest of the state roughly half annual precip in summer (statistically...every summer is different!)

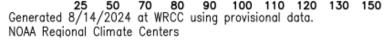
#### Monsoon 2024 Halftime Report

Jun 15 to Aug 13

Better (so far): Apache, Cochise, Pinal, Pima, Yavapai counties Mogollon Rim (central)

Needs improvement: Graham, Greenlee, La Paz, Mohave, Maricopa, Santa Cruz, Yuma counties



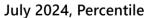


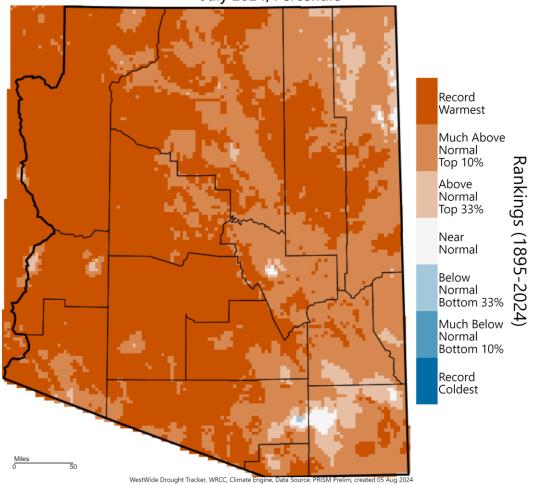


# July 2024: 2<sup>nd</sup> hottest July

Temp: 84.8°F Rank: 2<sup>nd</sup> hottest Anomaly: 5.1°F

#### **Arizona - Mean Temperature**





# Monthly County Average Temperature July 2024

Preliminary data from NOAA/NCEI

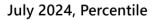
			1 Temininary	data ji oiii N	OAA/ N	CLI			
Arizor Counti		Т	emp	Depa	art	Rank			
Apach	ie		74.1°	3.1°			4 <sup>th</sup> warmest		
Cochis	se		81.9° 3.8°		2 <sup>nd</sup> warmest				
Coconi	Coconino		78.6°	5.4°		Tied 1 <sup>st</sup> warmest			
Gila			82.8°	4.7°	4.7°		2 <sup>nd</sup> warmest		
Graha	Graham		83.4°	4.3°		2 <sup>nd</sup> warmest			
Greenlee		77.9°		3.7°		3 <sup>rd</sup> warmest			
La Paz		97.8°		6.4°		1 <sup>st</sup> warmest			
Maricopa		95.5°		6.1°		2 <sup>nd</sup> warmest			
Mohave		89.0°		6.2°		1 <sup>st</sup> warmest			
Navajo		77.6°		4.5°		3 <sup>rd</sup> warmest			
Pima		89.9°		4.8°		2 <sup>nd</sup> warmest			
Pinal		92.3°		4.9°		2 <sup>nd</sup> warmest			
Santa Cruz		80.6°		4.0°			3 <sup>rd</sup> warmest		
Yavapai		83.5°		5.4°		2 <sup>nd</sup> warmest			
Yuma		97.0°		6.4°		1 <sup>st</sup> warmest			
Record Top coldest cold			Top 33% coldest	Normal Top 3			Top 10% warmest	Record warmest	

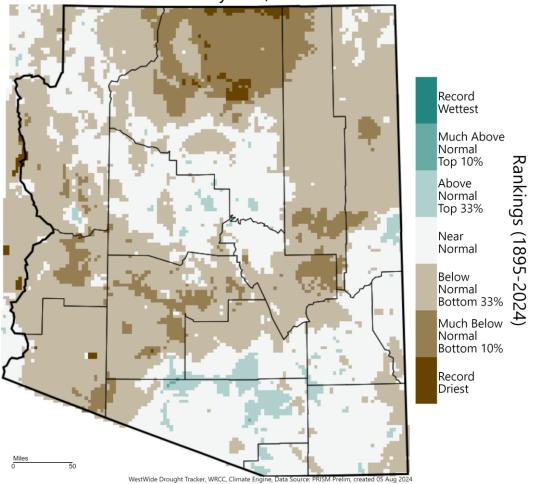


# July 2024: back to dry

Total: 1.24" Rank: 35<sup>th</sup> driest Anomaly: -0.56"

#### **Arizona - Precipitation**





# Monthly County Precipitation July 2024

Preliminary data from NOAA/NCEI

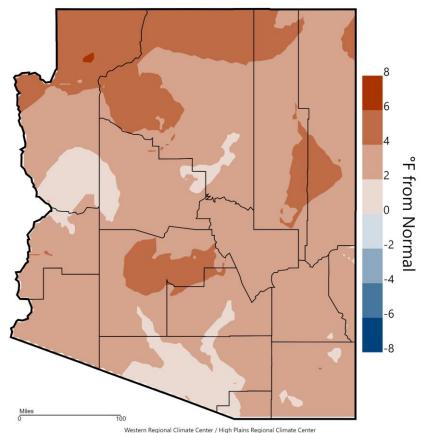
Preliminary data from NOAA/NCEI									
	Arizona Counties		Total	Depart		Rank			
Apach	ie		1.36"	-0.60	"	36 <sup>th</sup> driest			
Cochise			2.36"	-0.86"		33 <sup>rd</sup> driest			
Coconino			0.84"	-0.88"		21 <sup>st</sup> driest			
Gila			2.05"	-0.48" 44 <sup>th</sup> drie		est			
Graham			1.39"	-1.17" 20 <sup>th</sup> dri		iest			
Greenlee			2.66"	-0.14"		60 <sup>th</sup> driest			
La Paz			0.40"	-0.23	-0.23" 50 <sup>th</sup> drie		est		
Maricopa			1.10"	0.05"		49 <sup>th</sup> wettest			
Mohave			0.61"	-0.56"		34 <sup>th</sup> driest			
Navajo			0.61"	-1.14"		13 <sup>th</sup> driest			
Pima			2.20"	-0.17"		64 <sup>th</sup> wettest			
Pinal			1.73"	-0.05"		57 <sup>th</sup> wettest			
Santa Cruz		3.60"		-0.79"		44 <sup>th</sup> driest			
Yavapai		1.70"		-0.31"		57 <sup>th</sup> driest			
Yuma			0.09"	-0.42"		17 <sup>th</sup> driest			
Record driest	Top dri		Top 33% driest	Normal	Top 3			Record wettest	



# August still hot, some areas wet (so far)

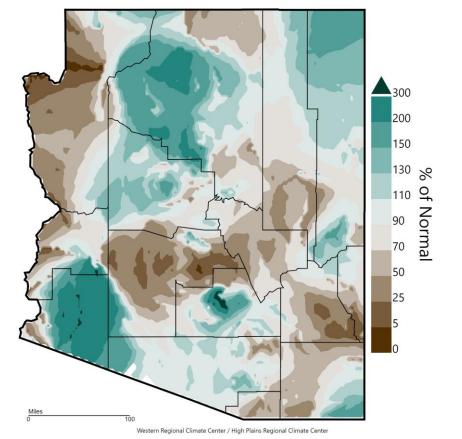
#### **Arizona Contours**

Mean Temperature Departure from Normal (August 1, 2024 - August 13, 2024)

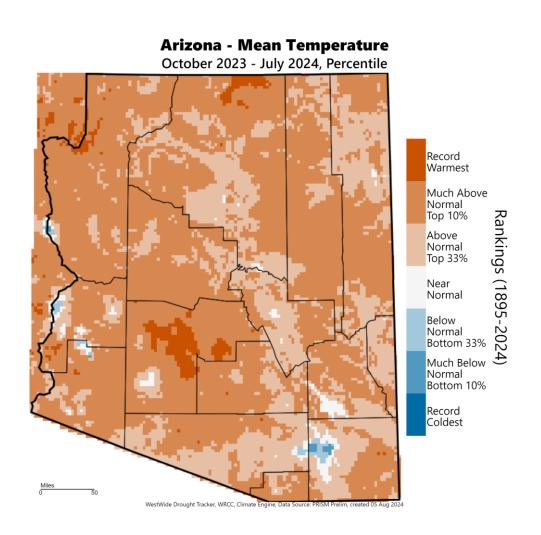


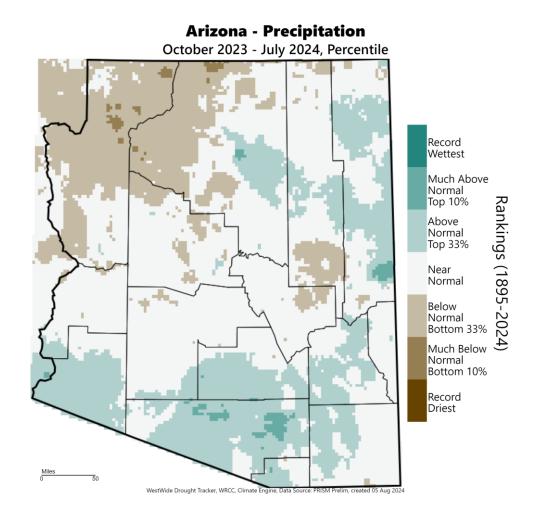
#### **Arizona Contours**

Total Precipitation Percent of Normal (August 1, 2024 - August 13, 2024)



# Water Year: still hot, some wet, some dry

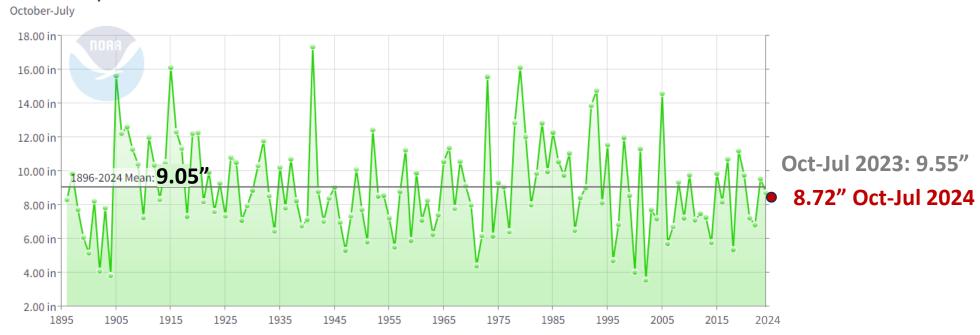






### WY2024: dropping below average

#### **Arizona Precipitation**



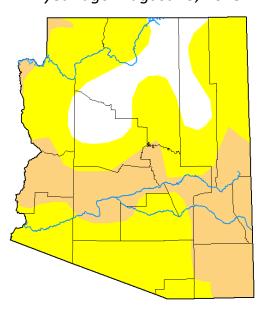
20 of last 30 water years have been below long-term average

Long-term WY average 12.27" 1994-2023 WY average 11.29"



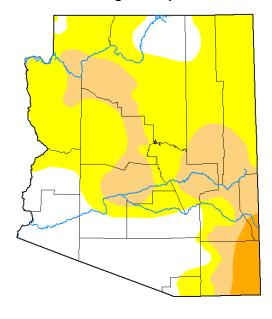
# Dry areas now impacting short-term drought

1 year ago: August 15, 2023



Winter 2023 was very wet Monsoon 2023 was very dry

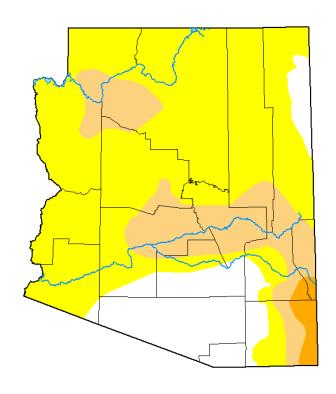
3 months ago: May 14, 2024



Winter 2024 was slightly wet

U.S. Drought Monitor

Arizona



#### August 13, 2024 (Released Thursday, Aug. 15, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	17.24	82.76	20.84	1.92	0.00	0.00
Last Week 08-06-2024	17.20	82.80	20.84	1.92	0.00	0.00
3 Month's Ago 05-14-2024	25.79	74.21	25.31	3.15	0.00	0.00
Start of Calendar Year 01-02-2024	5.62	94.38	53.37	33.54	5.75	0.00
Start of Water Year 09-26-2023	8.12	91.88	47.06	22.74	5.34	0.00
One Year Ago 08-15-2023	14.67	85.33	28.80	0.00	0.00	0.00

Intensity



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

#### <u>Author:</u>

Curtis Riganti

National Drought Mitigation Center







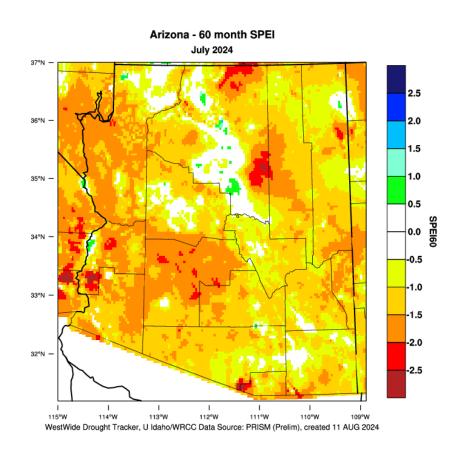


droughtmonitor.unl.edu

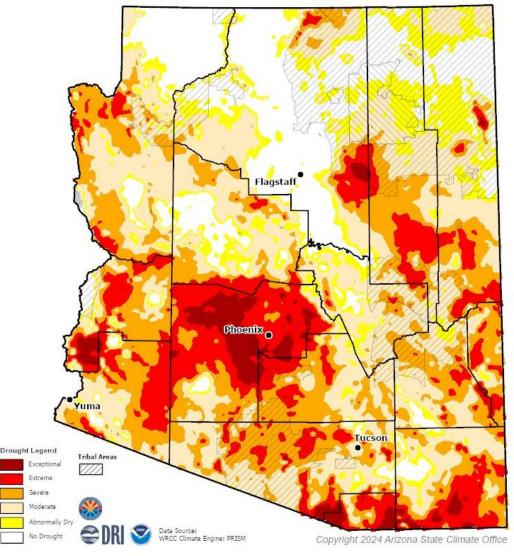
Long-term drought continues

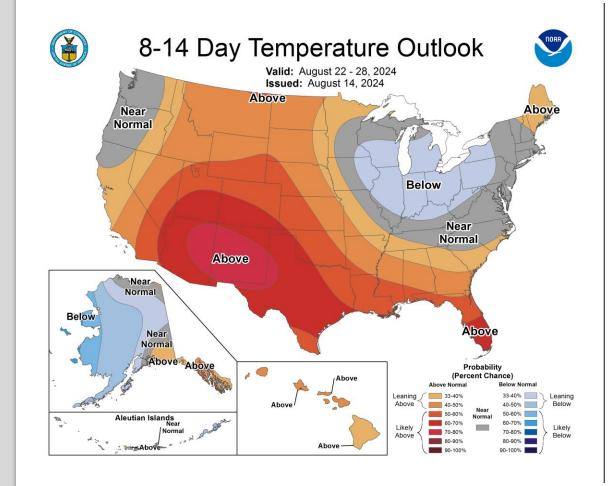
### Arizona Long-Term Drought

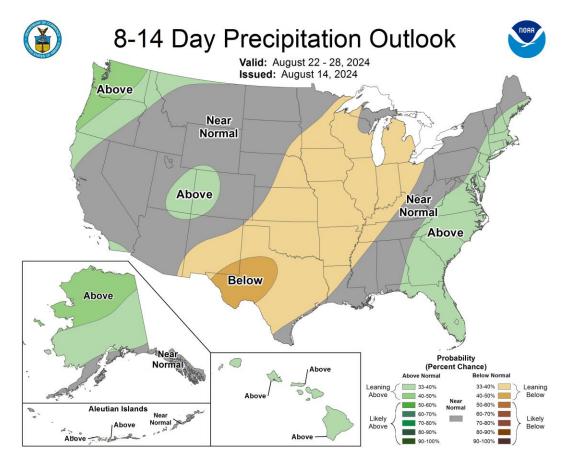
Published August, 2024

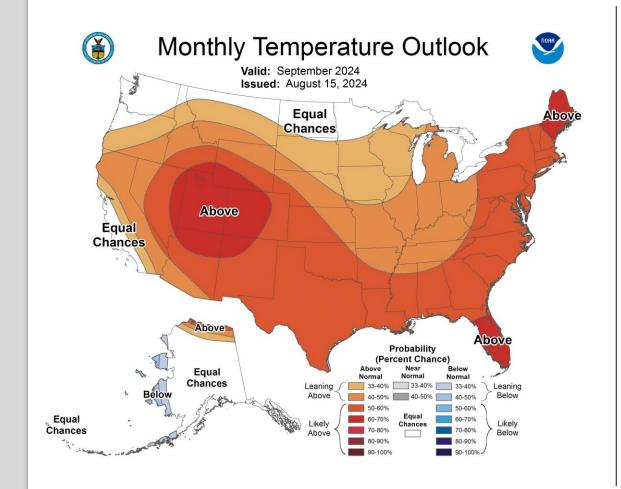


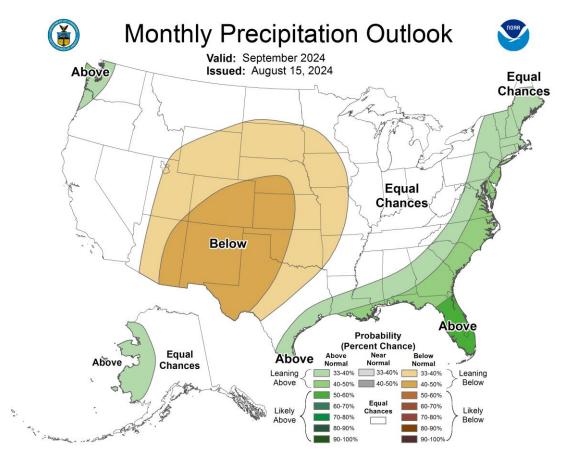
SPEI: Standardized Precipitation Evapotranspiration Index











### ENSO neutral conditions are present

### La Nina 66% chance develop Sep-Nov and persist through winter

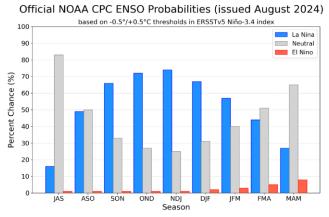


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N-5°S. 120°W-170°W). Figure updated 8 August 2024.

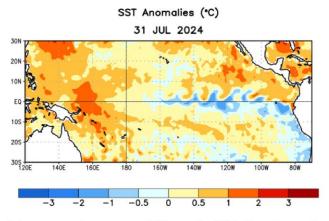


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 31 July 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

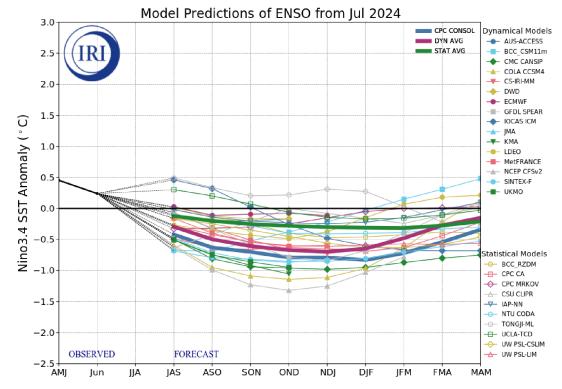


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 July 2024 by the International Research Institute (IRI) for Climate and Society.



### Welcome AMS Student Club Leaders at ASU!

President: Amanda Gibbons

Vice President: Kayla McDonald



