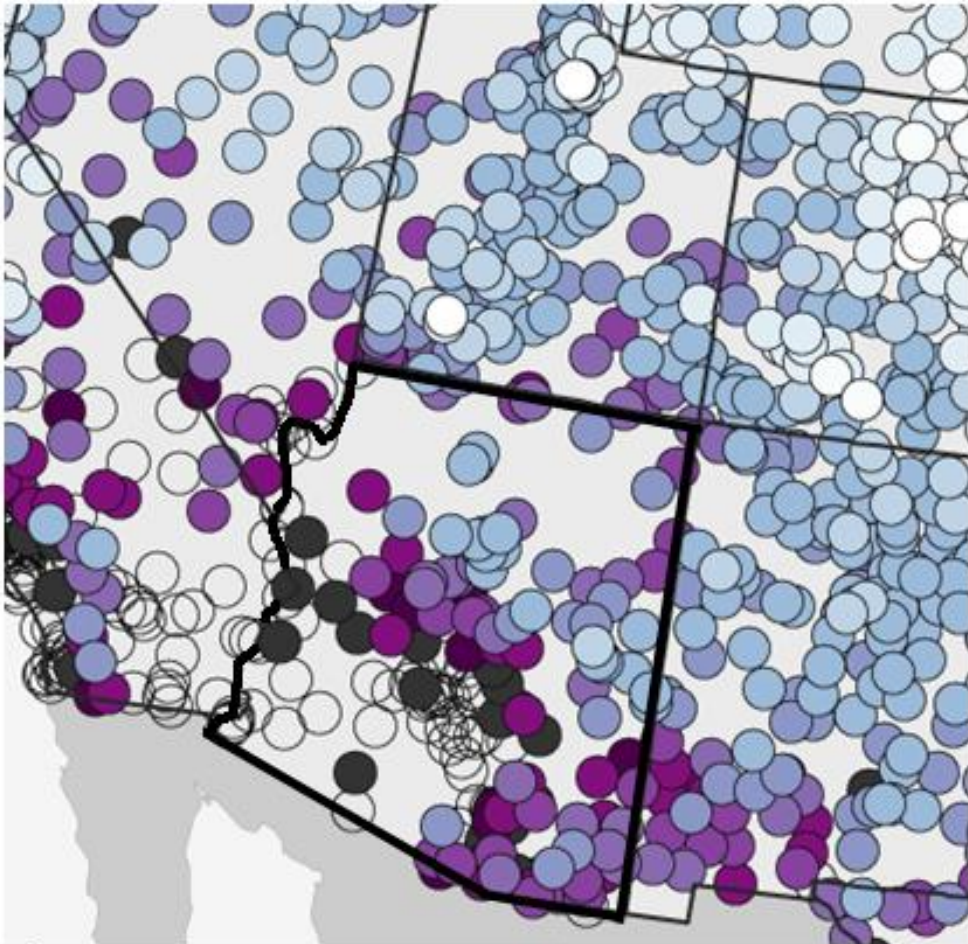


Historic date of first snow



Climate.gov Historic date of first snow Data from NCE!

year round Aug 1-31 Sep 1-15 Sep 16-30 Oct 1-15 Oct 16-31 Nov 1-15 Nov 16-30 Dec 1-15 Dec 15-31 Jan 1 or later too rare to analyze

Bellemont, September 13, 2024
(minimum temp)

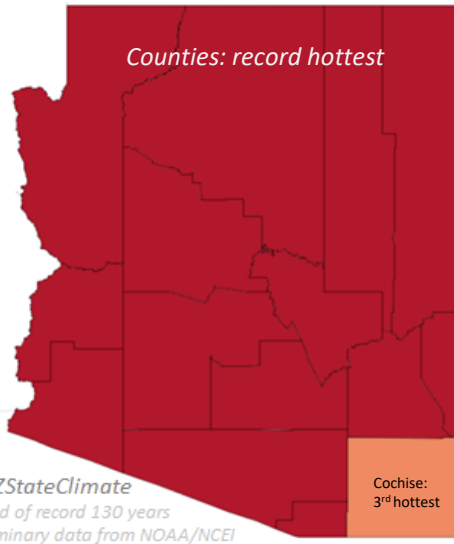


@NWSFlagstaff



Statewide Average Temperature

Temp: 82.1°F Rank: warmest Anomaly: 4.8°F
June to August 2024

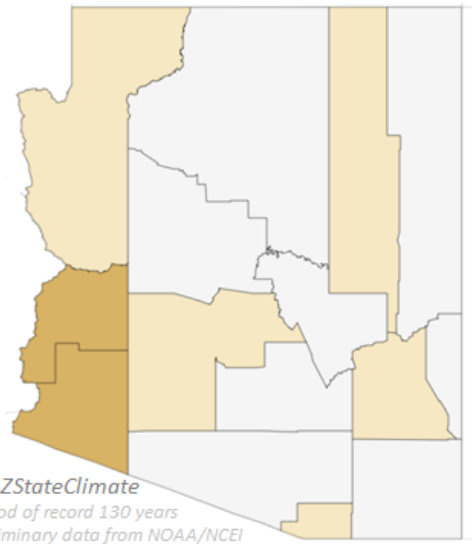


@AZStateClimate
Period of record 130 years
Preliminary data from NOAA/NCEI

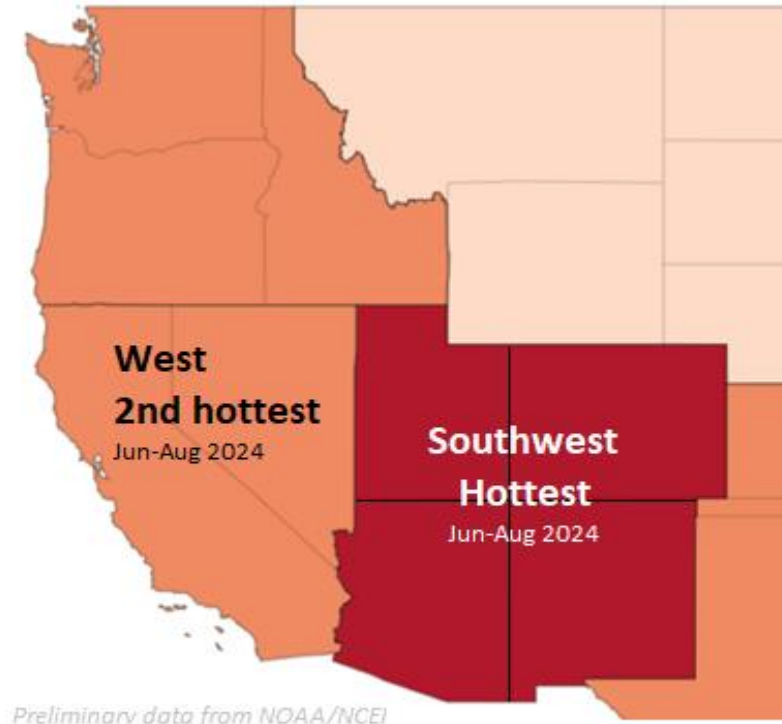


Statewide Precipitation

Total: 3.44" Rank: 41st driest Anomaly: -0.75"
June to August 2024



@AZStateClimate
Period of record 130 years
Preliminary data from NOAA/NCEI



Preliminary data from NOAA/NCEI

Legend Rank

- Highest
- 2nd-5th
- 6th-10th
- 10th-6th
- 5th-2nd
- Lowest

* Indicates tied ranking

Learn more about how Climate Perspectives works [Click here](#)

For any problems, comments or suggestions, please [drop us a note](#)

Powered by ACIS
NOAA Regional Climate Centers

@AZStateClimate

2024: hottest summer on record

2021-2024: **40** days average

Phoenix average annual 110°F + days

(per decade)



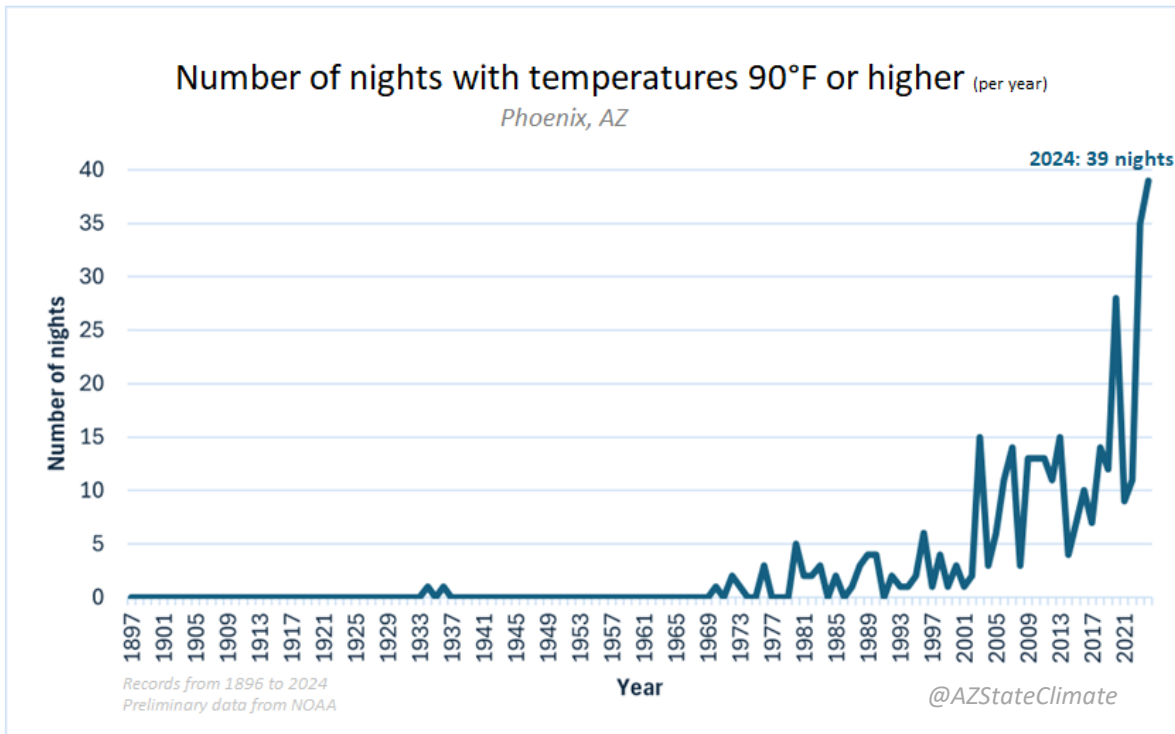
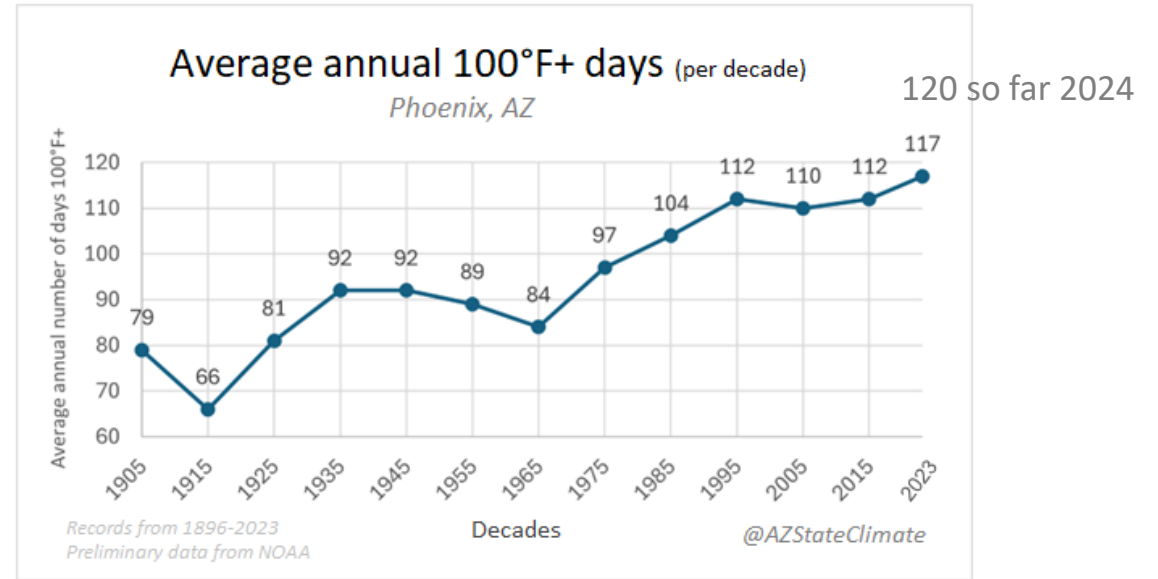
@AZStateClimate

Maricopa County is the hottest, most populous county in the US

110°F+ days/year

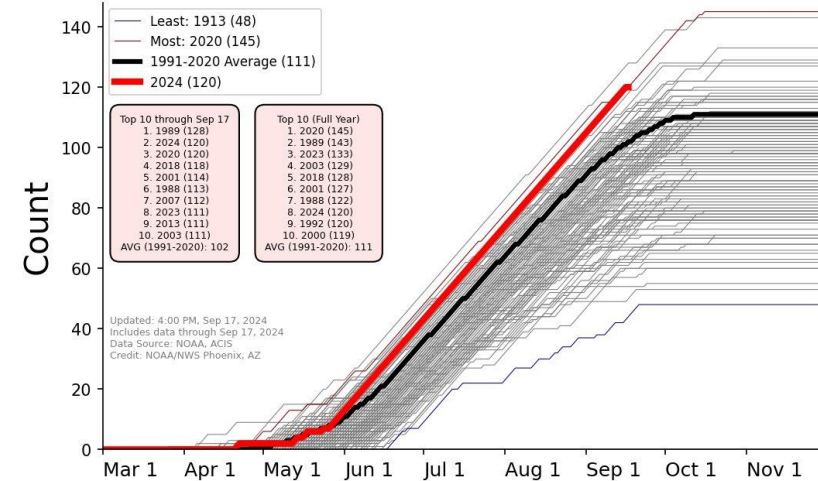
- 2024 – 61
- 2023 – 55
- 2022 – 22
- 2021 – 22
- 2020 – 53

More numbers this summer....



Number of 100°F in a row: May 27 to Sept 16 (113 days)

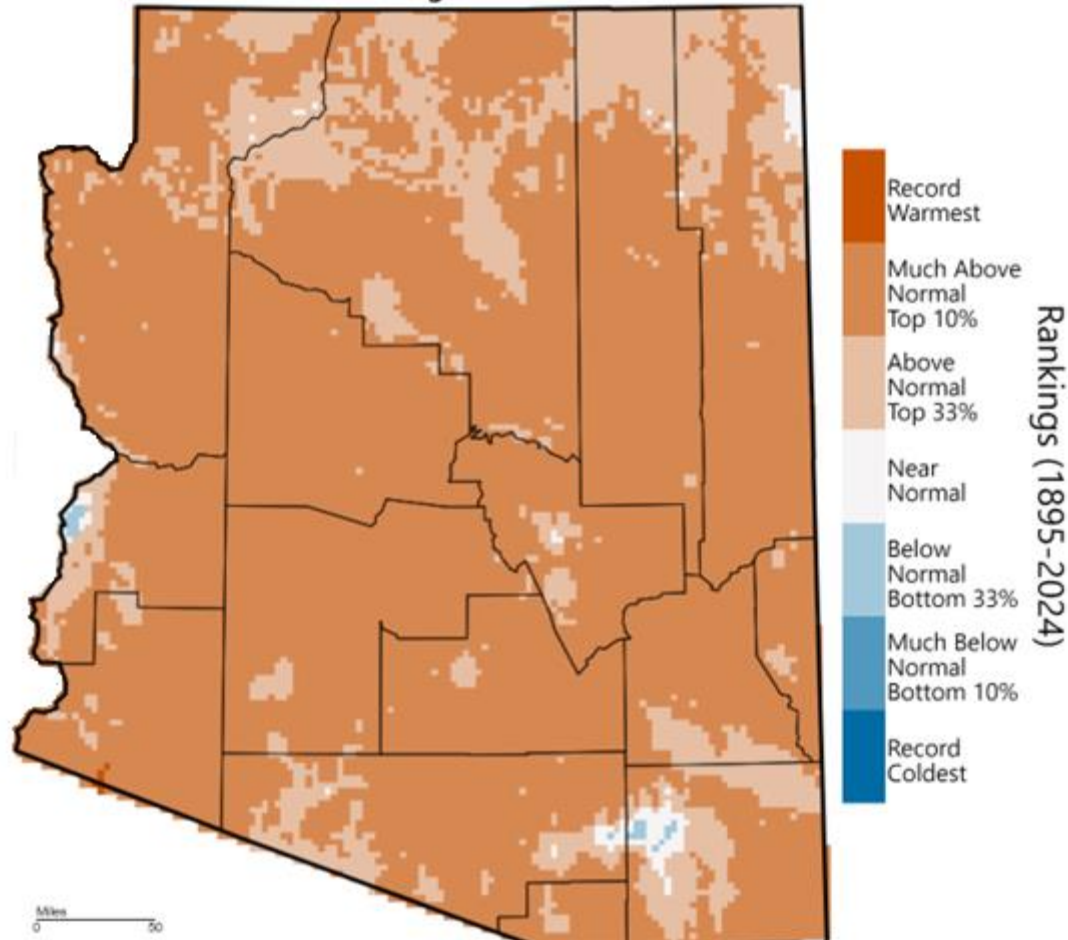
Days with Maximum Temperatures 100 ° F+ in Phoenix, AZ



August 2024: hot

Temp: 81.5°F Rank: 4th hottest Anomaly: 3.7°F

Arizona - Mean Temperature
August 2024, Percentile



WestWide Drought Tracker, WRCC, Climate Enginr. Data Source: PRISM Proxm. created 05 Sep 2024

Monthly County Average Temperature

August 2024

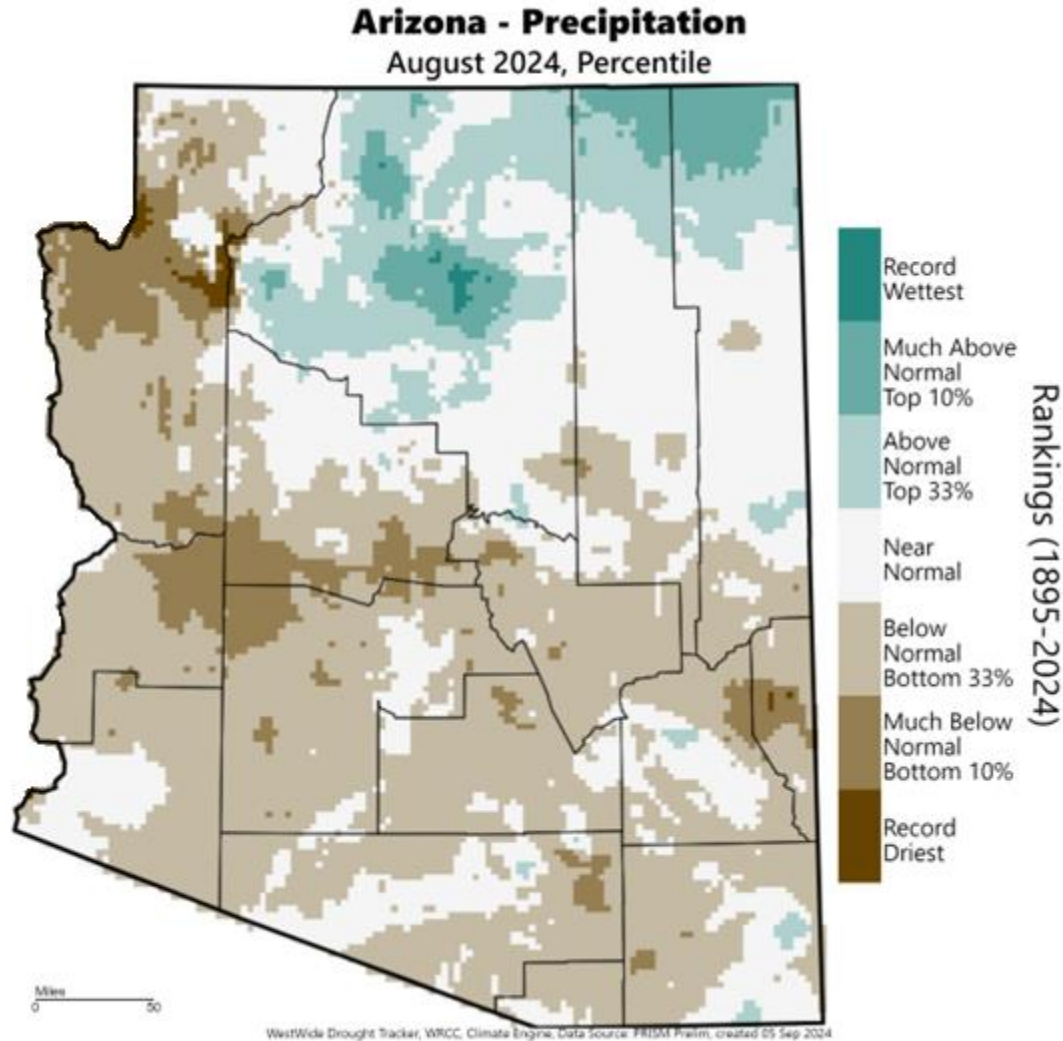
Preliminary data from NOAA/NCEI

Arizona Counties	Temp	Depart	Rank
Apache	72.2°	3.1°	3 rd warmest
Cochise	79.0°	3.2°	7 th warmest
Coconino	74.7°	3.6°	4 th warmest
Gila	79.8°	3.8°	6 th warmest
Graham	80.4°	3.3°	5 th warmest
Greenlee	76.0°	3.6°	4 th warmest
La Paz	94.4°	4.5°	4 th warmest
Maricopa	92.9°	5.2°	3 rd warmest
Mohave	84.3°	3.3°	7 th warmest
Navajo	74.5°	3.4°	4 th warmest
Pima	86.2°	3.2°	10 th warmest
Pinal	89.2°	3.9°	7 th warmest
Santa Cruz	77.3°	3.1°	11 th warmest
Yavapai	80.2°	4.1°	4 th warmest
Yuma	95.0°	5.2°	3 rd warmest

Record coldest	Top 10% coldest	Top 33% coldest	Normal	Top 33% warmest	Top 10% warmest	Record warmest
----------------	-----------------	-----------------	--------	-----------------	-----------------	----------------

August 2024: mostly dry

Total: 1.62" Rank: 37th driest Anomaly: -0.48"



Monthly County Precipitation

August 2024

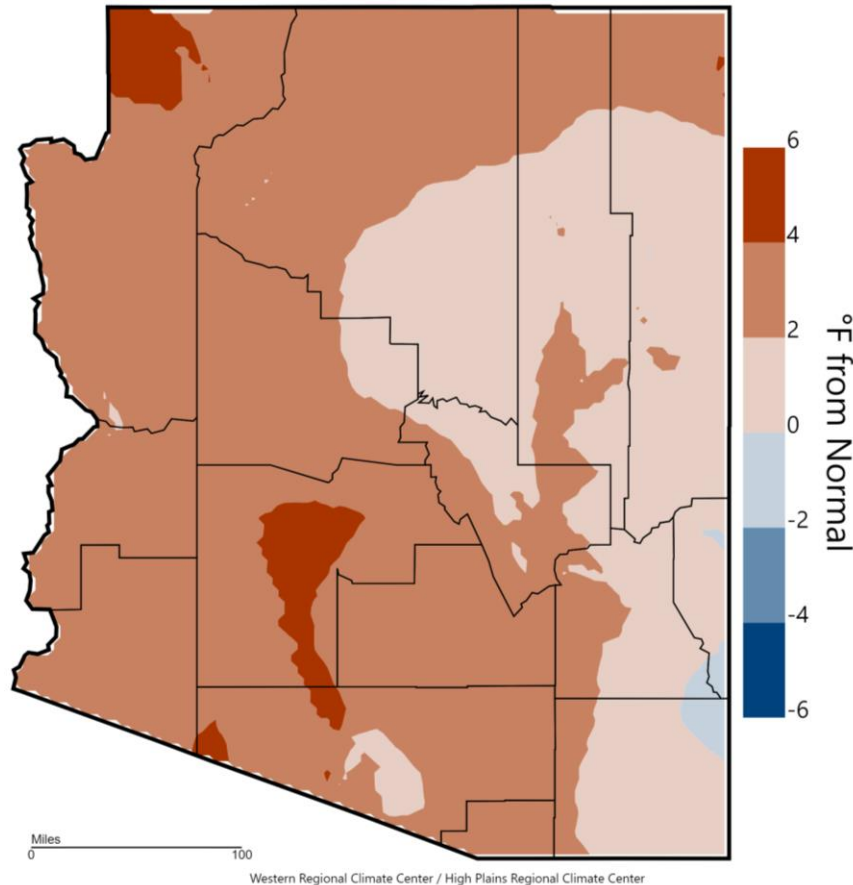
Preliminary data from NOAA/NCEI

Arizona Counties	Total	Depart	Rank
Apache	1.91"	-0.26"	63 rd driest
Cochise	2.62"	-0.58"	40 th driest
Coconino	2.12"	0.09"	59 th wettest
Gila	3.00"	-0.12"	58 th wettest
Graham	2.08"	-0.60"	40 th driest
Greenlee	2.44"	-0.53"	43 rd driest
La Paz	0.16"	-0.91"	12 th driest
Maricopa	0.61"	-0.86"	18 th driest
Mohave	0.81"	-0.72"	31 st driest
Navajo	1.79"	-0.23"	59 th driest
Pima	1.72"	-0.83"	24 th driest
Pinal	1.61"	-0.45"	53 rd driest
Santa Cruz	2.08"	-2.02"	10 th driest
Yavapai	1.95"	-0.64"	45 th driest
Yuma	0.10"	-0.74"	12 th driest

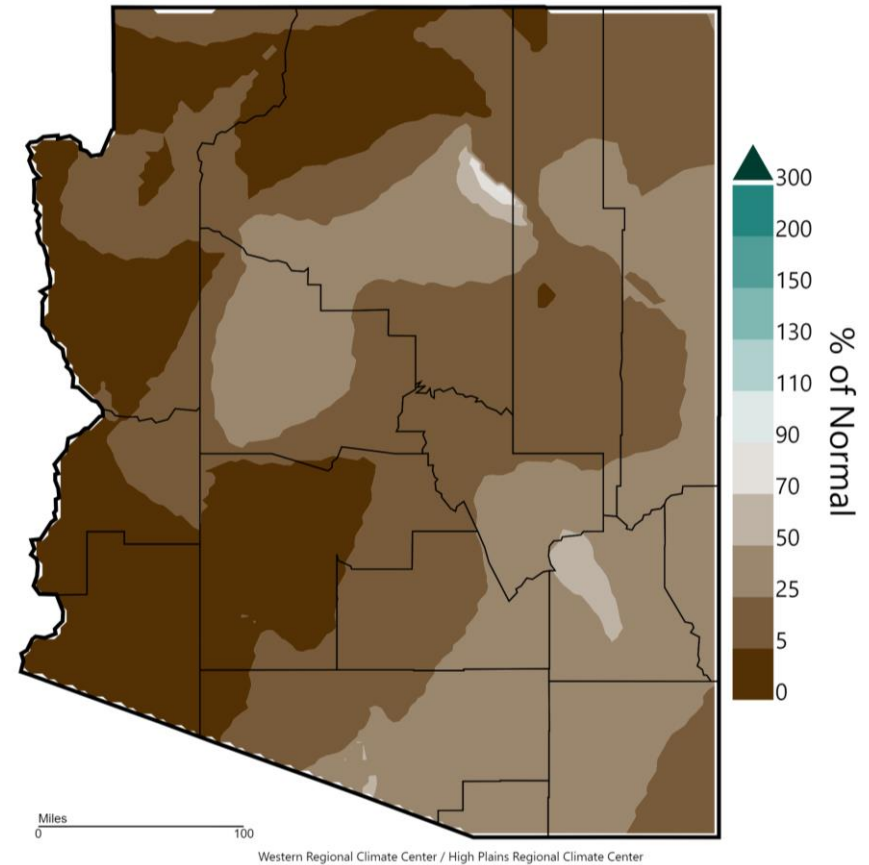
Record driest	Top 10% driest	Top 33% driest	Normal	Top 33% wettest	Top 10% wettest	Record wettest
---------------	----------------	----------------	--------	-----------------	-----------------	----------------

September: so far, hot and very dry

Mean Temperature Departure from Normal
September 1-17, 2024



Total Precipitation Percent of Normal
September 1-17, 2024



Wildland fire 60% increase from 2023 (to date)

ARIZONA 2024

Agency	Fires - Human	Acres - Human	Fires - Lightning	Acres - Lightning	Fires - Total	Acres - Total
DVF	256	24,765	43	46,839	299	71,604
BLM	106	2,731	99	39,504	205	42,235
FWS	3	1,043	1	1,422	4	2,465
NPS	9	1	13	256	22	257
BIA	459	12,677.5	112	21,558	571	34,235
FS	253	27,521	440	83,010	693	110,531
Totals:	1,086	68,738.5	708	192,589	1,794	261,327

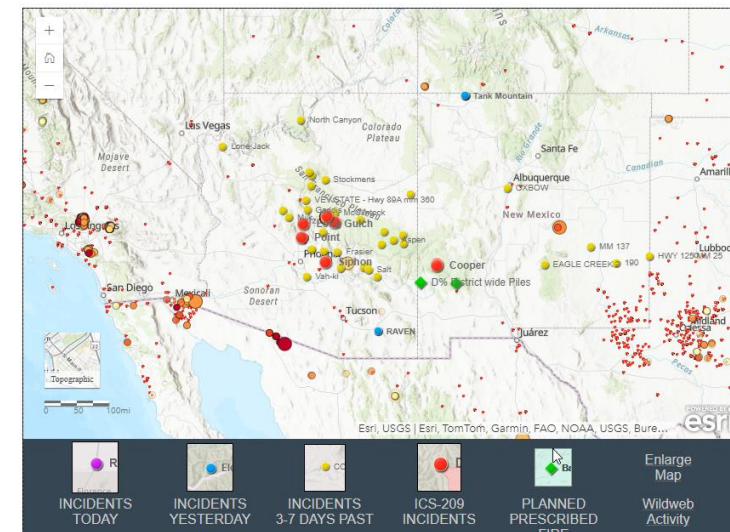
ARIZONA 2023

Agency	Fires - Human	Acres - Human	Fires - Lightning	Acres - Lightning	Fires - Total	Acres - Total
BIA	332	2,358	95	20,187	427	22,545
DVF	323	45,846.2	35	11,047	358	56,893
FS	328	21,432.4	276	47,042.1	604	68,474
NPS	12	29	15	112	27	141
FWS	4	153	2	3,056	6	3,209
DOD	0	0	0	0	0	0
BLM	110	2,047	62	5,391	172	7,438
Totals:	1,109	71,865.6	485	86,835.1	1,594	158,700

DVF: State, DFFM
 BLM: Bureau of Land Management
 FWS: US Fish and Wildlife
 NPS: National Park Service
 BIA: Bureau of Indian Affairs
 FS: USFS

*This year, wildland fire every month (to date)
 60% of fires human started (to date)*

SW WILDLAND & PRESCRIBED FIRE MAP

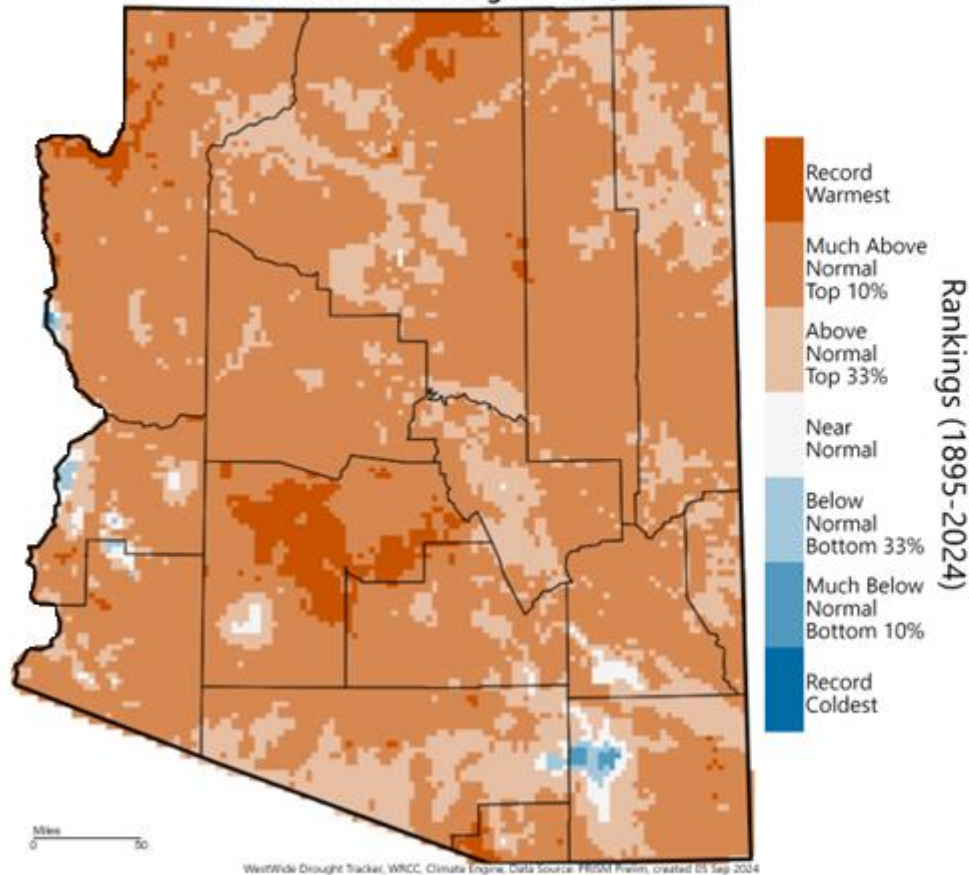


https://gacc.nifc.gov/swcc/predictive/intelligence/daily/Daily_Reported_Incidents/Daily_WF-RX_Map.htm

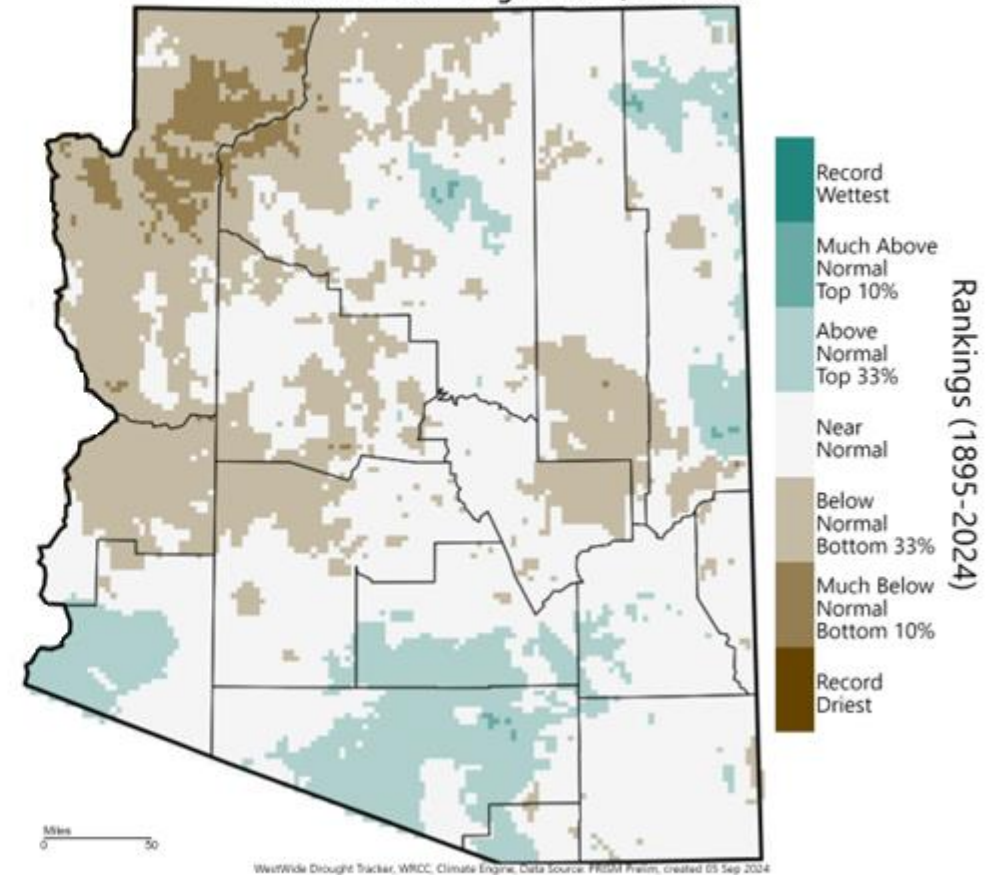
*Last year, many smaller wildfires
 No exceptionally large wildfires*

WY2024 Oct-Aug : hot and below average precip

Arizona - Mean Temperature
October 2023 - August 2024, Percentile



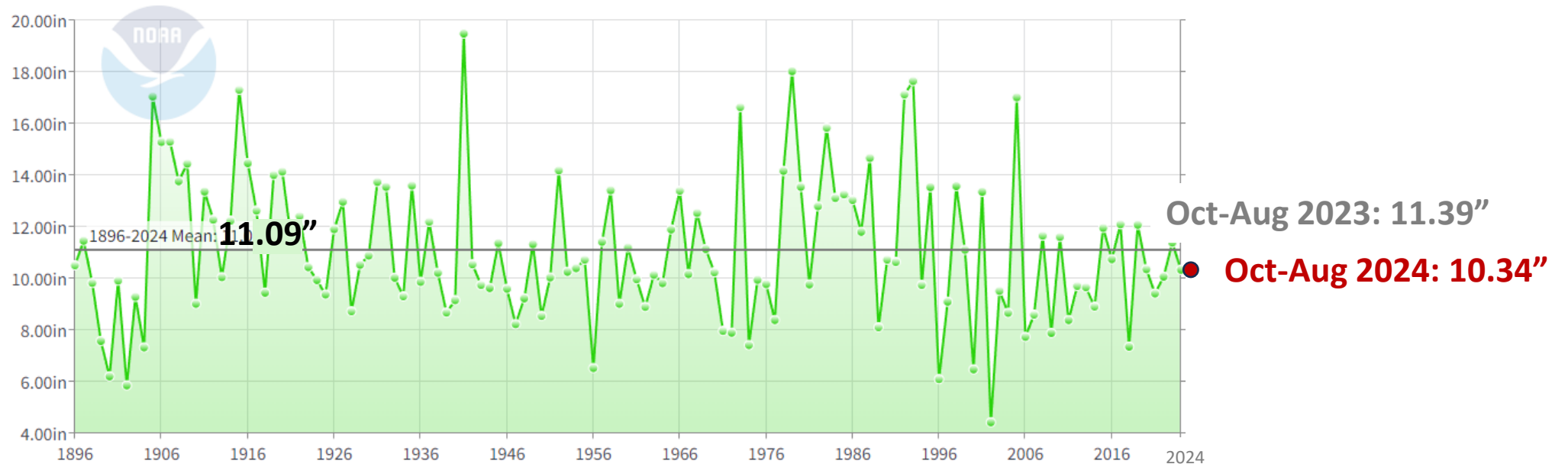
Arizona - Precipitation
October 2023 - August 2024, Percentile



- 1st 2018
- 2nd 1996
- 3rd 2017
- 4th 2000
- 5th 2015
- 6th 2024

WY2024 Oct-Aug: below average

Arizona Precipitation
October-August



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

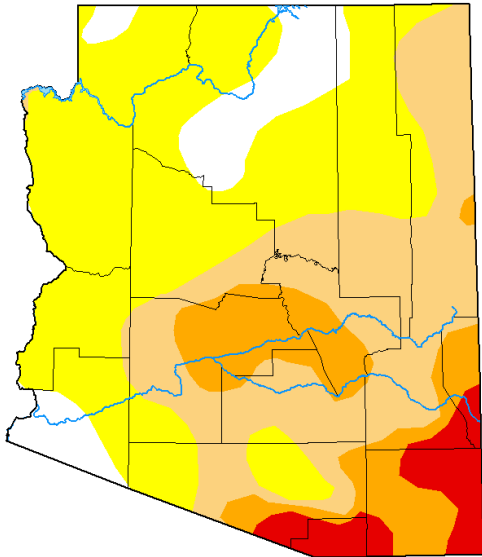
*Long-term WY average 12.27"
1994-2023 WY average 11.29"*

Short-term drought expanding

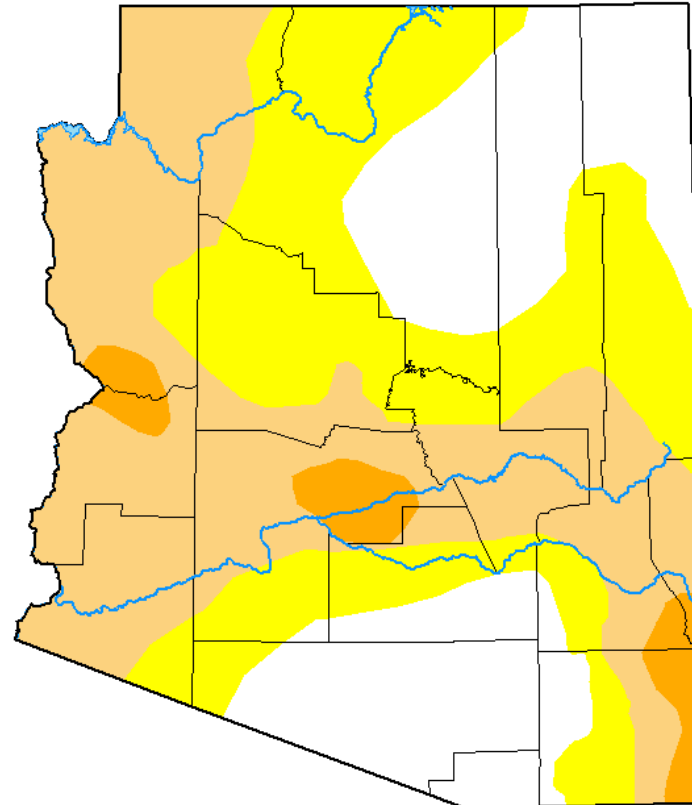
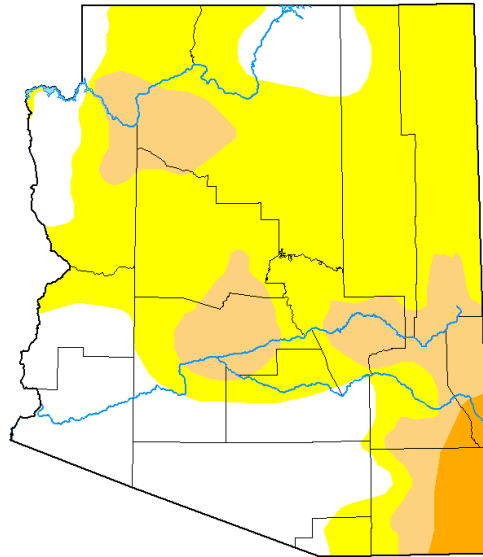
U.S. Drought Monitor Arizona

September 17, 2024
(Released Thursday, Sep. 19, 2024)
Valid 8 a.m. EDT

1 year ago: September 19, 2023



3 months ago: June 18, 2024



Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	27.62	32.48	35.29	4.61	0.00	0.00
Last Week 09-10-2024	27.62	32.48	35.29	4.61	0.00	0.00
3 Months Ago 06-18-2024	28.69	51.33	16.86	3.12	0.00	0.00
Start of Calendar Year 01-02-2024	5.62	41.01	19.82	27.79	5.75	0.00
Start of Water Year 09-26-2023	8.12	44.82	24.32	17.40	5.34	0.00
One Year Ago 09-19-2023	9.08	43.87	28.87	12.84	5.34	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>

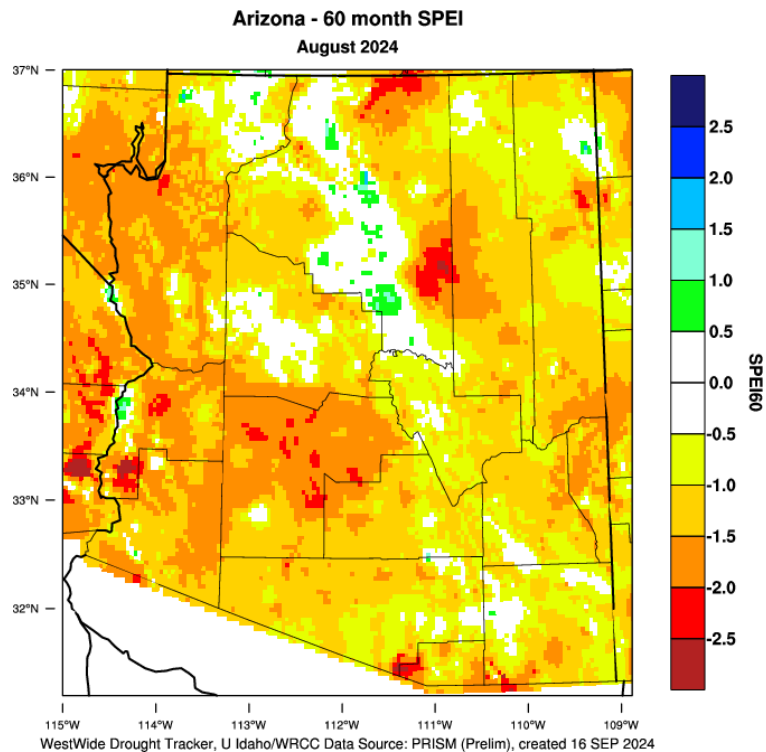
Author:

Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu

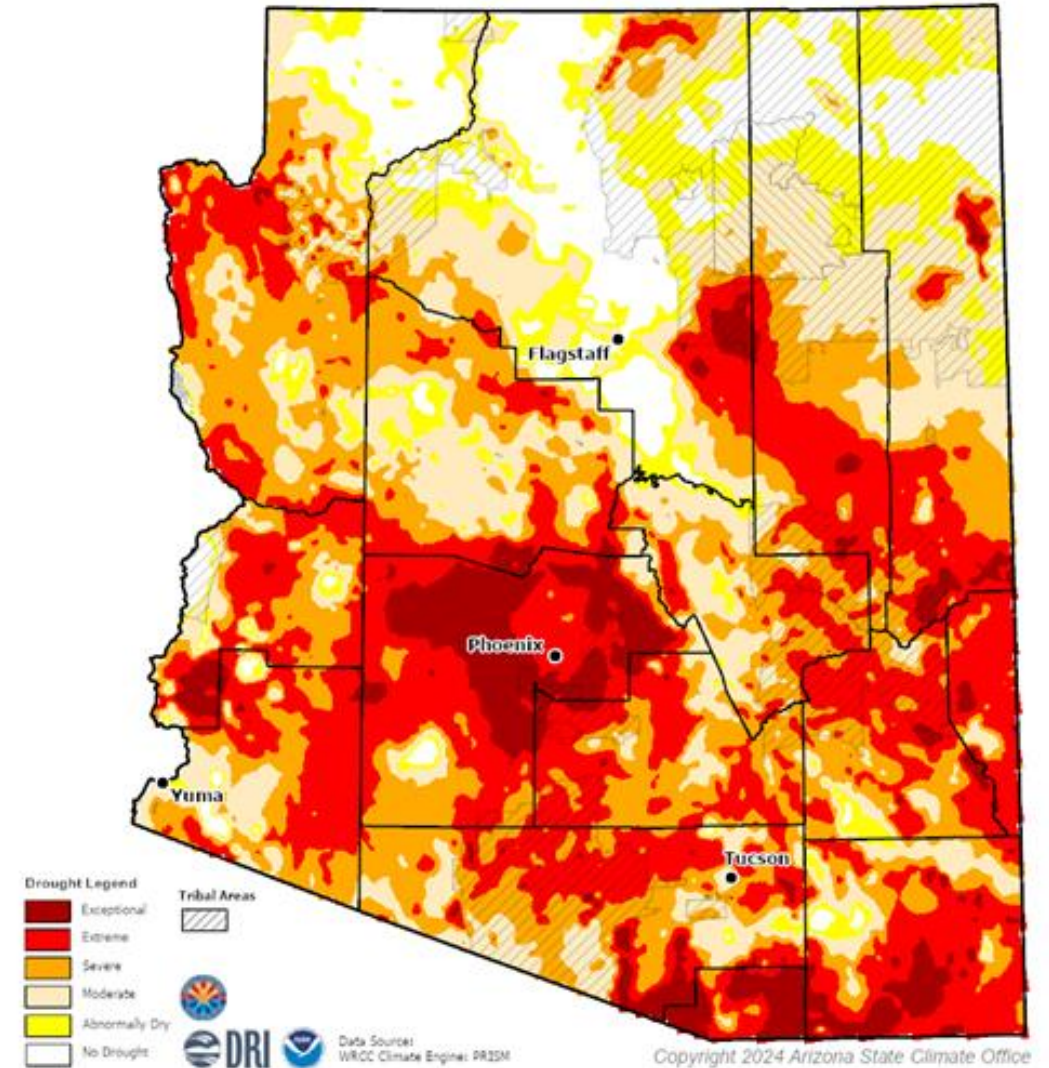
Arizona is experiencing a hot drought



SPEI: Standardized Precipitation
Evapotranspiration Index

Arizona Long-Term Drought

Published September 2024

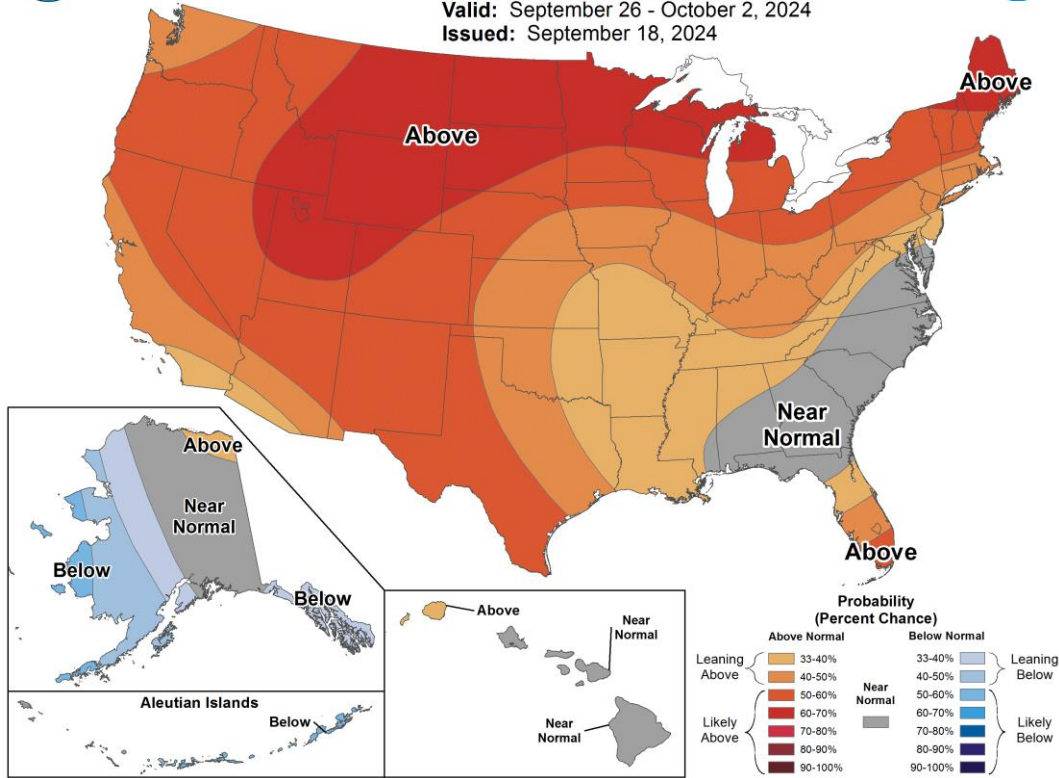




8-14 Day Temperature Outlook



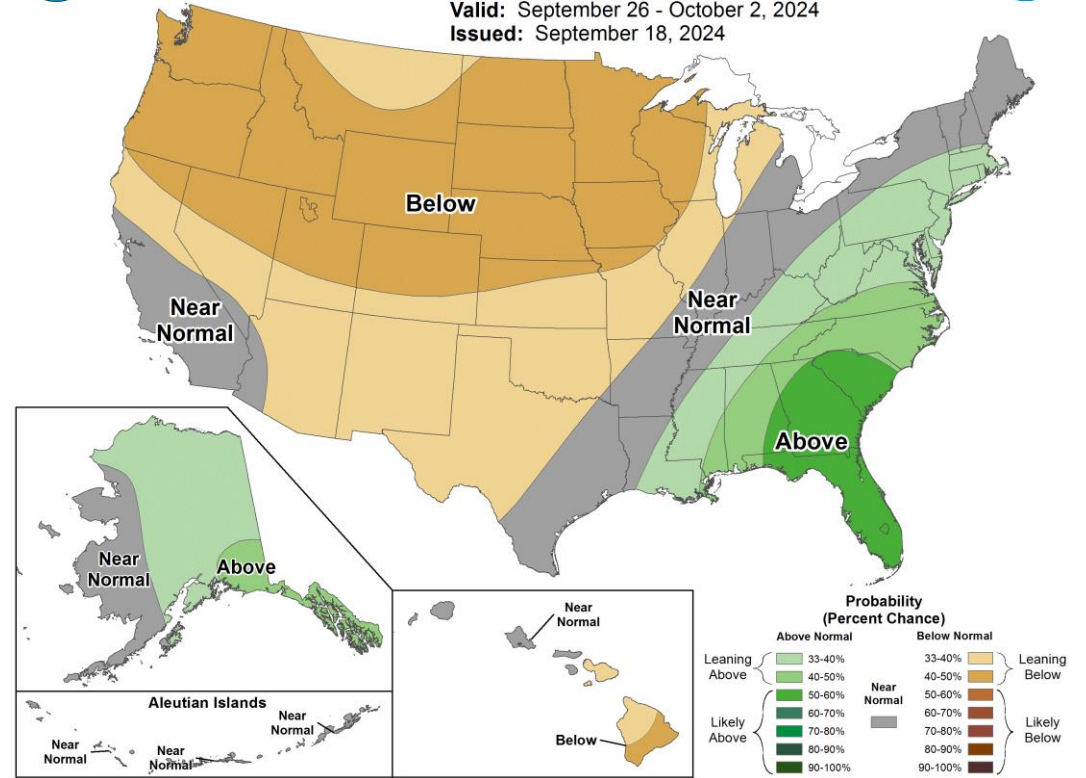
Valid: September 26 - October 2, 2024
Issued: September 18, 2024



8-14 Day Precipitation Outlook



Valid: September 26 - October 2, 2024
Issued: September 18, 2024

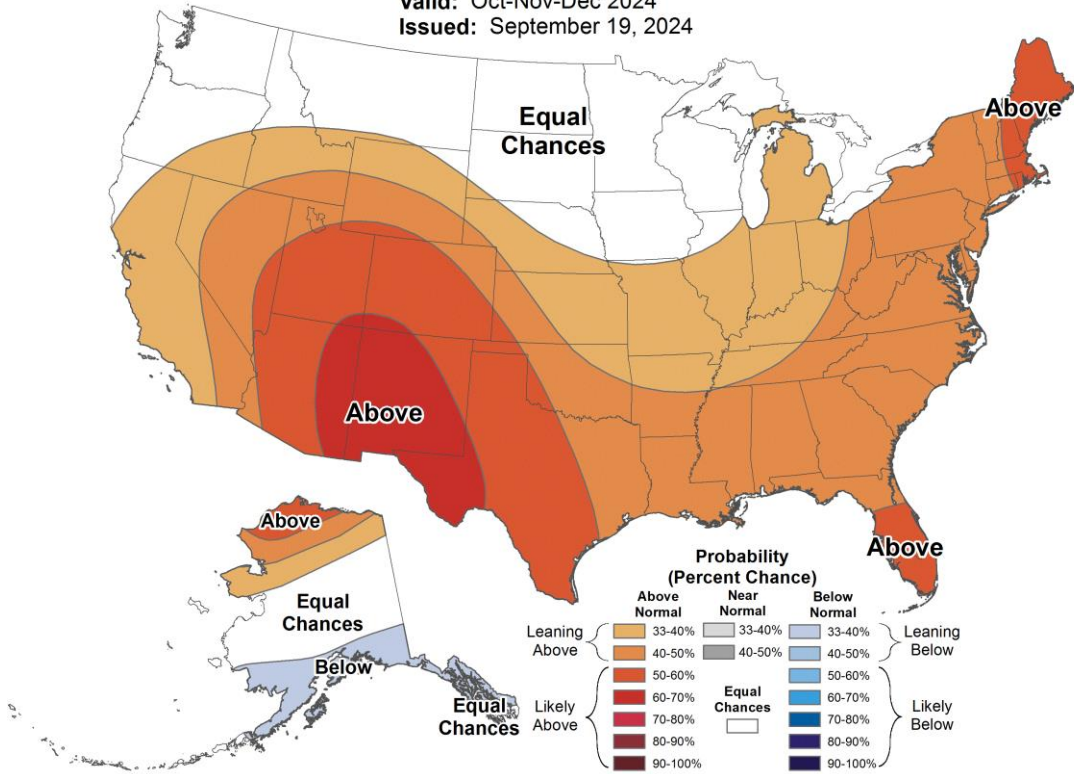




Seasonal Temperature Outlook



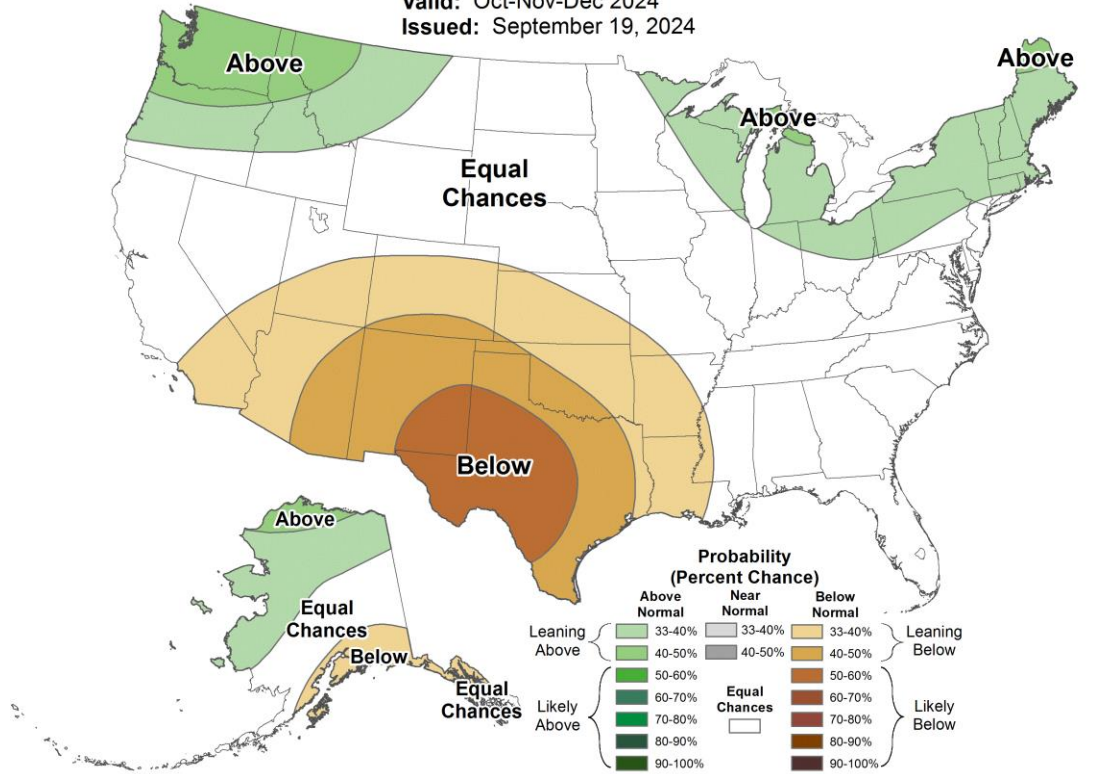
Valid: Oct-Nov-Dec 2024
Issued: September 19, 2024



Seasonal Precipitation Outlook



Valid: Oct-Nov-Dec 2024
Issued: September 19, 2024



La Nina on track for winter

71% chance Sep-Nov

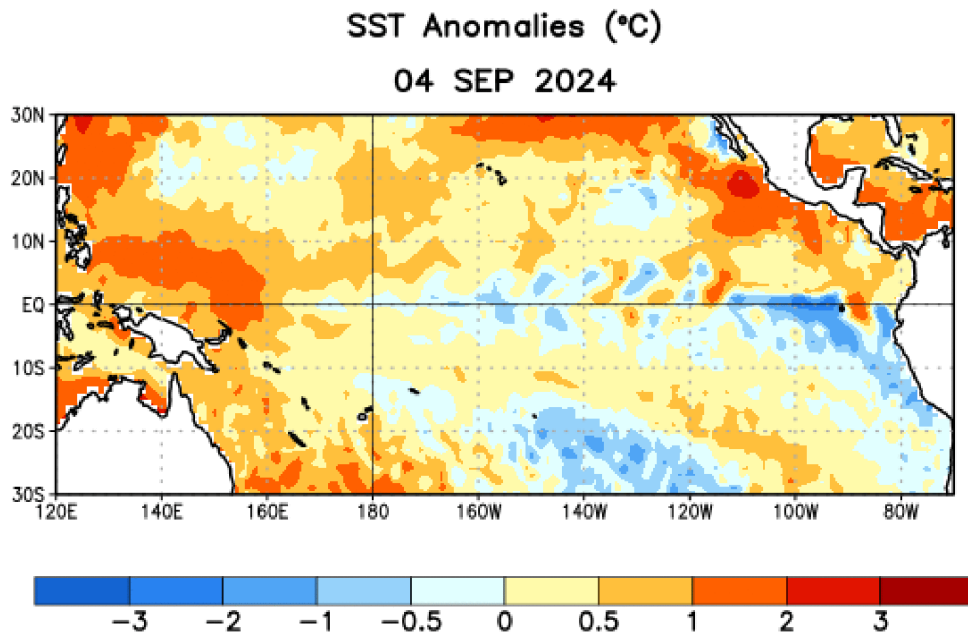


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 4 September 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

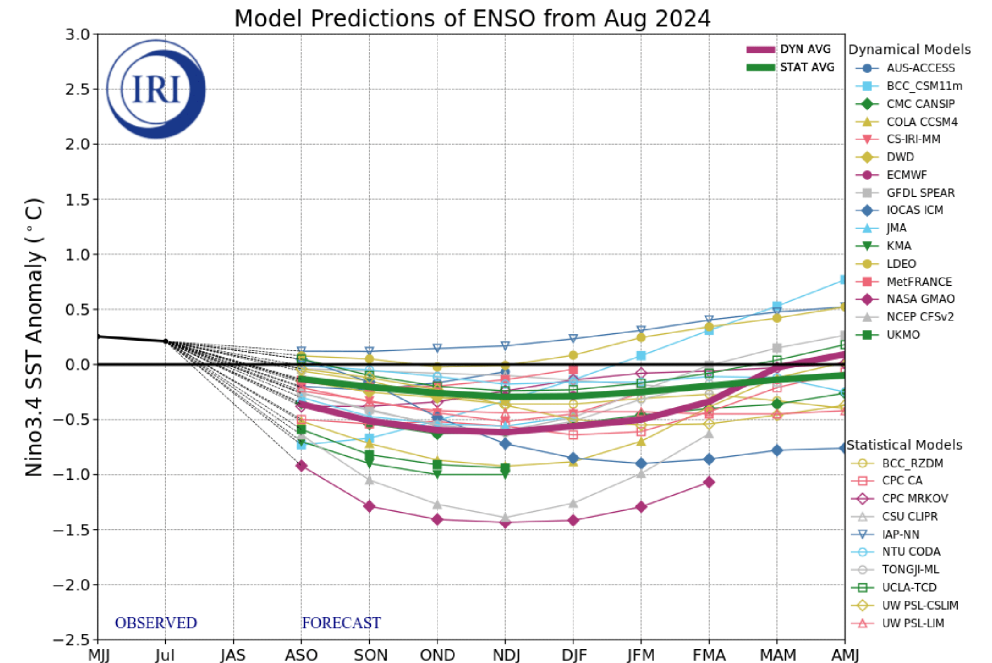
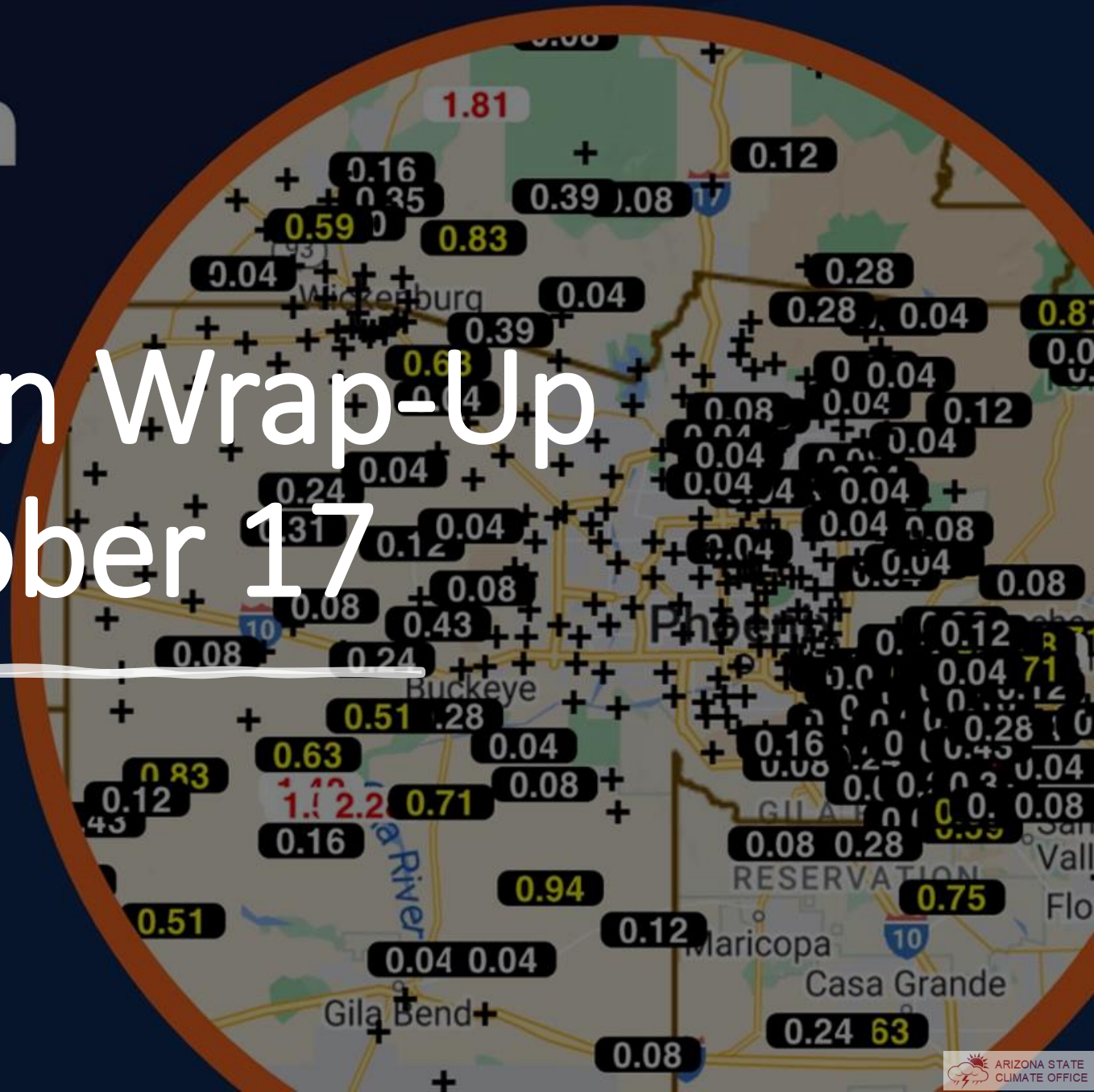


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 August 2024 by the International Research Institute (IRI) for Climate and Society.

How much rain has fallen?

Maricopa.gov Rainfall Monsoon Wrap-Up October 17


MARICOPA COUNTY
FLOOD CONTROL DISTRICT





Dan Berc
Warning Coordination Meteorologist
NWS Vegas