

Arizona Climate Summary

Summary of conditions for February 2025

Published March 17, 2025

February 2025 Summary

This February ranked as the 2nd hottest on record with an anomaly of 6.4°F from the 1895-2025 mean of 44.9°F. Williams, Show Low, Natural Bridge State Park, Picacho, Paradise, and Coronado National Memorial experienced their hottest February on record, while Phoenix tied its hottest February on record. For the water year to date (October-February), the state ranked as the 6th hottest and the 3rd driest. By February 28, snowpack was well below average in the Little Colorado (16% median SWE) and Verde (8% median SWE) basins, while there was no measurable snowpack in the Salt basin.

During the first few days into the month, a ridge of high pressure began to build over Arizona, bringing above normal temperatures. Many locations experienced record-breaking temperatures, including St. Johns (73°F on the 2nd; previous record 72°F in 1932), Show Low (72°F on the 3rd; previous record 65°F in 2000), Tucson (86°F on the 4th; previous record 84°F in 1925), Winslow (73°F on the 5th; previous record 71°F in 2009 and 1925), Safford Airport (80°F on the 6th; previous record 76°F in 2018 and 2009), San Simon (81°F on the 7th; previous record 79°F in 2009), and Bisbee-Douglas Airport (83°F on the 8th; previous record 80°F in 1996 and 1957). In addition, on February 3, Tucson recorded a high temperature of 86°F, tying the record set in 1925 and marking the first time this year that they reached a high temperature above 85°F. The last time this happened in Tucson during the first week of February was in 2003, and before that, it occurred two other times since 1895 (1963 and 1925).

On February 11, a trough brought gusty winds across much of the state. A dust channel was spotted on satellite imagery along Highway 85 in Maricopa County, bringing reduced visibility. Dense blowing dust was also noted along I-10 from the Willcox Playa in eastern Cochise County to the Arizona/New Mexico border, with visibilities falling between a quarter to a half of a mile near Bowie.

From February 13 into February 15, a winter storm system triggered rain showers and high elevation snow in a few areas. Bright Angel received 2.33 inches of precipitation (15.5 inches of snow), Flagstaff received 1.39 inches of precipitation (5.3 inches of snow), Betatakin received 0.62 inches of precipitation (3.0 inches of snow), Kingman received 0.38 inches of precipitation, San Simon received 0.20 inches of precipitation, Tucson received 0.15 inches of precipitation, and Tempe received 0.05 inches of precipitation.

A strong ridge of high pressure built over Arizona on February 23, with anomalously warm temperatures persisting through the end of the month. New record high temperatures were set in some locations, including Seligman (73°F on the 23rd; previous record 71°F in 1946), Bellemont (66°F on the 24th; previous record 58°F in 2016), Winslow (76°F on the 25th; previous record 75°F in 1989), Safford Airport (83°F on the 26th; previous record 78°F in 2009), Natural Bridge State Park (73°F on the 27th; previous record 72°F in 2016), and Apache Junction (85°F on the 28th; previous record 84°F in 2016 and 1988). On February 24, Flagstaff reached 66°F, marking the first time this year that they exceeded a high

Dr. Erinanne Saffell,

Arizona State Climatologist
Written by Juliana Likourinou,
Assistant State Climatologist
http://azclimate.asu.edu
© 2025 Arizona State Climate Office





temperature of 65°F. The last time Flagstaff recorded 66°F in a February was in 2015. On February 25, Phoenix measured 90°F for the first time this year. The last time Phoenix reached or exceeded 90°F in a February was on February 17, 2016, which was the earliest occurrence on record. Prior to that year, it happened three other times since 1895 (1986, 1921, and 1904). Data are preliminary and are from NOAA Regional Climate Centers and the National Weather Service Forecast Offices in Flagstaff, Phoenix, Tucson, and Las Vegas. Note: Weather stations across the state have different reporting times. Official daily temperature and precipitation values are recorded at the airports from midnight to midnight, while statewide observations are taken at varying times throughout the day. Dr. Erinanne Saffell. School of Geographical Sciences and Urban Planning Arizona State Climatologist **Arizona State University**

Julie Ann Wrigley

Arizona State University

Global Futures Laboratory

STATE CLIMATOLOGISTS

Written by Juliana Likourinou,

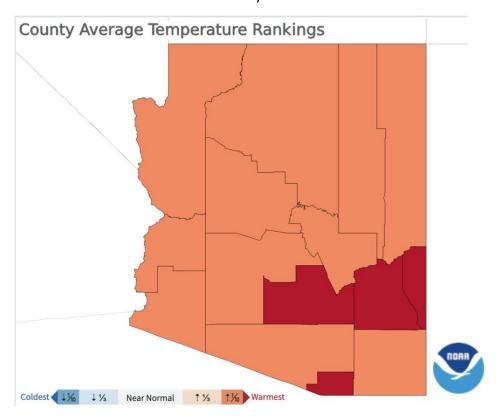
Assistant State Climatologist

© 2025 Arizona State Climate Office

http://azclimate.asu.edu

Statewide Average Temperature per County

February 2025



The **average** state temperature for February was **51.3°F**, ranking as the **2nd hottest** February within the period of record. The **1895-2025 mean average** state temperature for February was **44.9°F**, resulting in an **anomaly** of **+6.4°F**.

County	Average Temperature	Rank (131 Years)	Anomaly From the 1895-2025 mean
Apache	40.7°F	Tied 5 th hottest	+6.0°F
Cochise	53.2°F	3 rd hottest	+6.1°F
Coconino	43.2°F	3 rd hottest	+6.5°F
Gila	51.4°F	2 nd hottest	+6.8°F
Graham	53.4°F	Hottest	+7.1°F
Greenlee	49.1°F	Hottest	+6.9°F
La Paz	61.7°F	Tied 3 rd hottest	+5.8°F
Maricopa	61.2°F	3 rd hottest	+6.2°F
Mohave	52.5°F	4 th hottest	+6.1°F
Navajo	43.0°F	2 nd hottest	+7.1°F
Pima	59.4°F	3 rd hottest	+6.5°F
Pinal	59.9°F	Hottest	+6.5°F
Santa Cruz	53.9°F	Hottest	+6.7°F
Yavapai	50.9°F	3 rd hottest	+6.5°F
Yuma	62.5°F	8 th hottest	+5.2°F

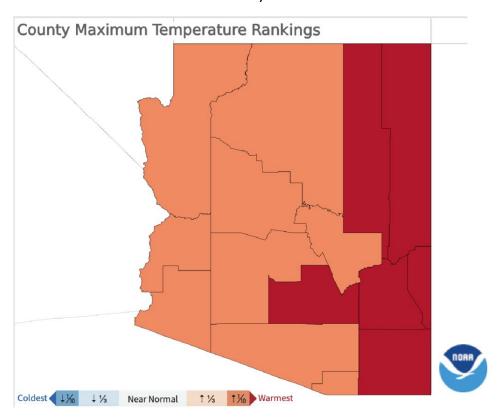
Period of record: 1895-2025

 $\label{eq:decomposition} \mbox{Data are from the National Centers for Environmental Information and are \ensuremath{\textit{preliminary}}.$



Statewide Maximum Temperature per County

February 2025



The **average maximum** state temperature for February was **66.4°F**, ranking as the **2nd hottest** February within the period of record. The **1895-2025 mean maximum** state temperature for February was **57.9°F**, resulting in an anomaly of **+8.5°F**.

County	Maximum Temperature	Rank (131 Years)	Anomaly From the 1895-2025 mean
Apache	57.5°F	Hottest	+10.1°F
Cochise	71.4°F	Hottest	+9.5°F
Coconino	57.6°F	3 rd hottest	+8.4°F
Gila	66.1°F	2 nd hottest	+8.9°F
Graham	67.8°F	Hottest	+8.9°F
Greenlee	64.3°F	Hottest	+9.4°F
La Paz	75.6°F	8 th hottest	+6.5°F
Maricopa	76.5°F	Tied 2 nd hottest	+8.0°F
Mohave	64.2°F	7 th hottest	+6.5°F
Navajo	58.8°F	Hottest	+10.0°F
Pima	76.3°F	2 nd hottest	+9.2°F
Pinal	75.6°F	Tied hottest	+9.0°F
Santa Cruz	71.4°F	2 nd hottest	+9.5°F
Yavapai	65.5°F	5 th hottest	+7.9°F
Yuma	78.0°F	7 th hottest	+6.6°F

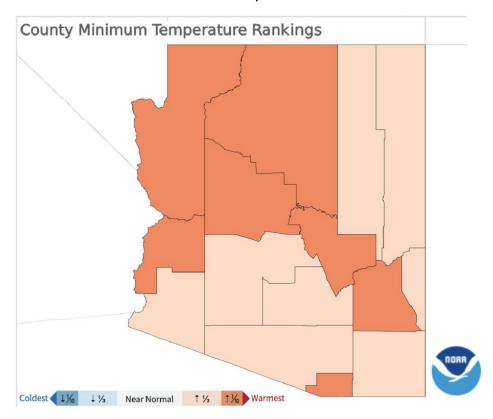
Period of record: 1895-2025

 $\label{eq:Data} \mbox{ Data are from the National Centers for Environmental Information and are \mbox{ } \mbo$



Statewide Minimum Temperature per County

February 2025



The **average minimum** state temperature for February was **36.2°F**, tying as the **12th hottest** February within the period of record. The **1895-2025 mean minimum** state temperature for February was **31.9°F**, resulting in an anomaly of **+4.3°F**.

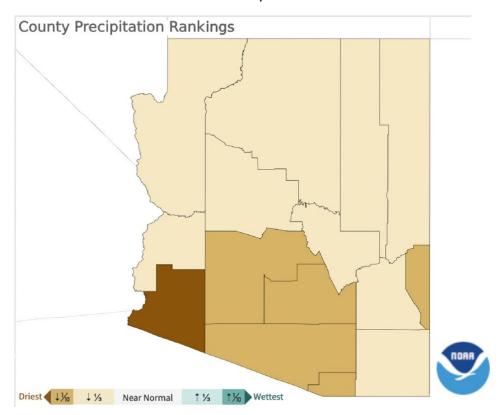
County	Minimum Temperature	Rank (131 Years)	Anomaly From the 1895-2025 mean
Apache	23.8°F	Tied 37 th hottest	+1.9°F
Cochise	34.9°F	Tied 28 th hottest	+2.6°F
Coconino	28.9°F	Tied 10 th hottest	+4.7°F
Gila	36.7°F	Tied 12 th hottest	+4.8°F
Graham	39.1°F	7 th hottest	+5.4°F
Greenlee	34.0°F	15 th hottest	+4.4°F
La Paz	47.8°F	10 th hottest	+5.2°F
Maricopa	45.8°F	Tied 14 th hottest	+4.3°F
Mohave	40.7°F	Tied 5 th hottest	+5.6°F
Navajo	27.3°F	16 th hottest	+4.2°F
Pima	42.4°F	Tied 18 th hottest	+3.7°F
Pinal	44.1°F	15 th hottest	+4.0°F
Santa Cruz	36.4°F	Tied 11 th hottest	+3.9°F
Yavapai	36.3°F	Tied 7 th hottest	+5.1°F
Yuma	47.0°F	17 th hottest	+3.9°F

Period of record: 1895-2025



Statewide Total Precipitation per County

February 2025



The average state precipitation for February was **0.29 inches**, tying as the **20th driest** February within the period of record. The **1895-2025 mean state precipitation** for February was **1.09 inches**, resulting in an anomaly of **-0.80 inches**.

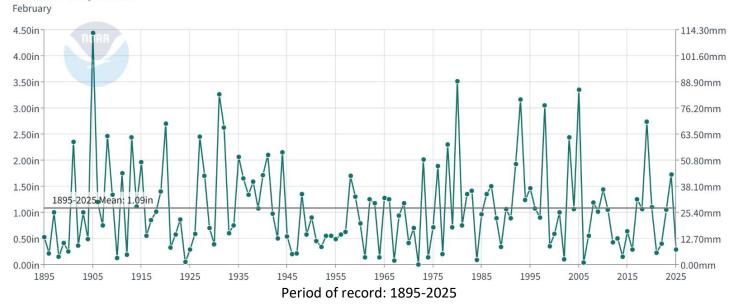
County	Precipitation	Rank (131 Years)	Anomaly From the 1895-2025 mean
Apache	0.31"	Tied 17 th driest	-0.62"
Cochise	0.08"	14 th driest	-0.81"
Coconino	0.65"	43 rd driest	-0.54"
Gila	0.56"	Tied 22 nd driest	-1.45"
Graham	0.14"	14 th driest	-1.03''
Greenlee	0.17"	Tied 10 th driest	-1.02"
La Paz	0.04"	Tied 21 st driest	-0.63''
Maricopa	0.04"	Tied 12 th driest	-0.91''
Mohave	0.42"	35 th driest	-0.75"
Navajo	0.30"	Tied 20 th driest	-0.61"
Pima	0.04''	Tied 8 th driest	-0.86''
Pinal	0.05"	10 th driest	-1.07''
Santa Cruz	0.03"	Tied 10 th driest	-1.13"
Yavapai	0.47"	Tied 30 th driest	-1.16"
Yuma	0.00''	Tied driest	-0.53''

Period of record: 1895-2025



February Statewide Precipitation (1895 to date)

Arizona Precipitation



This chart shows average Arizona precipitation each February through the period of record (1895 to present). February 2025 tied as the **20**th **driest** with an average of **0.29 inches**, which is **0.80 inches below** the **1895-2025 average** of **1.09 inches**. This was the driest February since 2021.



Flagstaff Climate Statistics

February 2025

This ranked as the 2 nd hottest February on record (9/10/1898 to present). With 1.39 inches of precipitation, it ranked as the 55 th driest February on record.	Total February Precipitation: 1.39" Normal February Precipitation: 2.17" Departure from Normal: -0.78" Greatest 24-Hr Precip: 1.07" on 14 th		
Avg Max Temp: 53.9°F Normal: 45.7°F Avg Min Temp: 23.8°F Normal: 19.6°F Avg Mean Temp: 38.8°F Normal: 32.6°F	Total Precipitation Year-to-Date: 1.58" Normal Precipitation Year-to-Date: 4.22" Departure from Normal: -2.64" Total Precip Year-to-Date (Last Year): 5.59"		
Highest Monthly Avg Temp: 39.7°F in 2015 Lowest Monthly Avg Temp: 19.5°F in 1939	Greatest February Precipitation: 10.05" in 1993 Least February Precipitation: 0.00" in 1967		
Highest Temp this month: 67°F on 25 th Lowest Temp this month: 14°F on 12 th Record High: 71°F on 2/26/1986 Record Low: -23°F on 2/1/1985	Total February Snowfall: 5.3" Normal February Snowfall: 19.3" Departure from Normal: -14.0" Greatest 24-Hr Snowfall: 3.2" on 14 th		
Temperature or precipitation records this month: Highest maximum temperature: 66°F on 2/24/2025; tied record set on 2/24/1904	Greatest February Snowfall: 84.3" in 1901 Least February Snowfall: 0.0" in 2006 and 5 other years		
Flagstaff Number of Days of: Minimum Temp 32°F or lower 28 Minimum Temp 0°F or lower 0 Maximum Temp 32°F or lower 0 Measurable Precipitation 2 (0.01" or greater)	Average Wind Speed: 7.6 mph Highest Wind Speed: 33 mph from 220° on 11 th Highest Peak Gust: 48 mph from 220° on 11 th Data are from NOAA Regional Climate Centers and are preliminary.		
Trace Precipitation 0 (less than 0.01")	Normals on this page are from 1991-2020		



FEBRUARY 2025 FLAGSTAFF AVERAGE DAILY TEMPERATURE							
ABOVE AVERAGE BELOW +/- 0.5°F							
S	М	Т	W	Th	F	S	
						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	4
23	24	25	26	27	28		

Flagstaff experienced 25 days of above average temperatures and 3 days of below average temperatures this month.

Phoenix Climate Statistics

February 2025

This tied as the hottest February on record (8/6/1895 to present). With 0.02 inches of precipitation, it tied as the 19th driest February on record.

Total February Precipitation: 0.02"

Normal February Precipitation: 0.87"

Departure from Normal: -0.85"

Greatest 24-Hr Precip: 0.02" on 14th

Avg Max Temp: 79.0°F Normal: 70.8°F Avg Min Temp: 52.9°F Normal: 49.0°F Avg Mean Temp: 66.0°F Normal: 59.9°F

Total Precipitation Year-to-Date: 0.03"
Normal Precipitation Year-to-Date: 1.74"
Departure from Normal: -1.71"
Total Precip Year-to-Date (Last Year): 2.05"

Highest Monthly Avg Temp: 66.0°F in 2025 and 1991

Lowest Monthly Avg Temp: 48.5°F in 1939

Greatest February Precipitation: 4.64" in 1905 Least February Precipitation: 0.00" in 2021 and 14 other years

Highest Temp this month: 90°F on 25th Lowest Temp this month: 47°F on 1st

Average Wind Speed: 5.4 mph

Record High: 92°F on 2/27/1986, 2/25/1921 Record Low: 24°F on 2/8/1933, 2/7/1899 Highest Wind Speed: 24 mph from 280° on 14th Highest Peak Gust: 33 mph from 280° on 14th

Temperature or precipitation records this month: Highest maximum temperature: 82°F on 2/2/2025; tied record set on 2/2/2021 and 2/2/1925

Data are from NOAA Regional Climate Centers and are **preliminary.**

Highest maximum temperature: 86°F on 2/3/2025;

tied record set on 2/3/1925

Normals on this page are from 1991-2020

Highest maximum temperature: 86°F on 2/4/2025; previous record 85°F on 2/4/1963 and 2/4/1925

Phoenix Number of Days of:

Minimum Temp 32°F or lower 0
Measurable Precipitation 1
(0.01" or greater)
Trace Precipitation 1
(less than 0.01")

FEBRUARY 2025 PHOENIX AVERAGE DAILY TEMPERATURE							
ABOVE AVERAGE BELOW +/- 0.5°F							
S	М	т	W	Th	F	S	
						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	23 24 25 26 27 28						
are from the National Weather Service office in Phoenix and are preliminary.							

Phoenix recorded 27 days of above average temperatures and 1 day of below average temperatures this month.

Tucson Climate Statistics

February 2025

This ranked as the 2nd hottest February on record (9/1/1894 to present). With 0.15 inches of precipitation, it ranked as the 27th driest February on record.

Total February Precipitation: 0.15"

Normal February Precipitation: 0.84"

Departure from Normal: -0.69"

Greatest 24-Hr Precip: 0.15" on 14th

Avg Max Temp: 78.0°F Normal: 69.2°F Avg Min Temp: 45.5°F Normal: 43.2°F Avg Mean Temp: 61.7°F Normal: 56.2°F

Total Precipitation Year-to-Date: 0.25"
Normal Precipitation Year-to-Date: 1.68"
Departure from Normal: -1.43"
Total Precip Year-to-Date (Last Year): 3.16"

Highest Monthly Avg Temp: 62.1°F in 2015 Lowest Monthly Avg Temp: 45.3°F in 1903

Greatest February Precipitation: 4.15" in 1905 Least February Precipitation: 0.00" in 2021

and 10 other years

Highest Temp this month: 86°F on 3rd, 4th, 24th, 25th

Lowest Temp this month: 38°F on 1st

Total February Snowfall: 0.0" Normal February Snowfall: 0.1" Departure from Normal: -0.1"

Record High: 92°F on 2/14/1957 Record Low: 17°F on 2/7/1899

> Greatest February Snowfall: 4.9" in 1903 Least February Snowfall: 0.0" in 2025 and numerous years

<u>Temperature or precipitation records this month:</u> Highest maximum temperature: 86°F on 2/3/2025;

tied record set on 2/3/1925

Average Wind Speed: 6.6 mph

Highest maximum temperature: 86°F on 2/4/2025; previous record 84°F on 2/4/1925

Highest Wind Speed: 28 mph from 230° on 11th Highest Peak Gust: 37 mph from 260° on 11th

Data are from NOAA Regional Climate Centers and are

Tucson Number of Days of:

Minimum Temp 32°F or lower

Measurable Precipitation 1
(0.01'' or greater)

Trace Precipitation 0

preliminary.

(less than 0.01")

Normals on this page are from 1991-2020



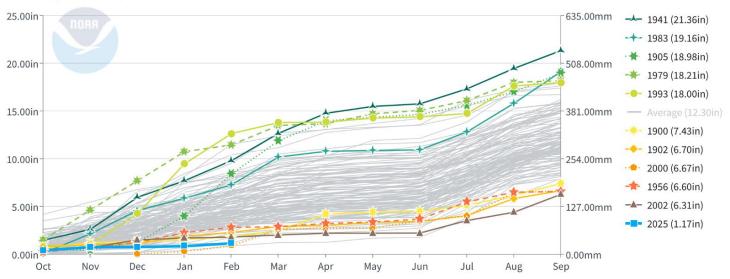
	FEBRUARY 2025 TUCSON AVERAGE DAILY TEMPERATURE							
	ABOVE AVERAGE BELOW +/- 0.5°F							
	S	М	т	W	Th	F	S	
							1	
	2	3	4	5	6	7	8	
	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	
	23	24	25	26	27	28		
16 17 18 19 20 21 22 23 24 25 26 27 28 Data are from the National Weather Service office in Tucson and are preliminary.								

Tucson observed 26 days of above average temperatures and 2 days of below average temperatures this month.

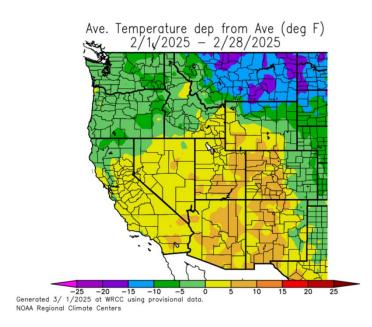
Cumulative Statewide Precipitation per Water Year (Oct 2024-Sept 2025)

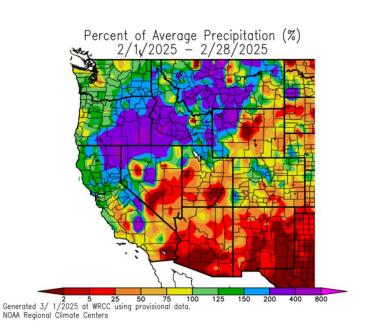
Arizona

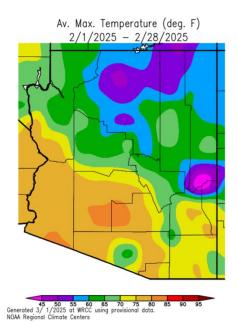
October-September Precipitation

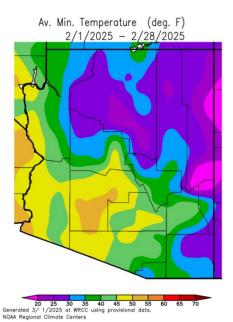


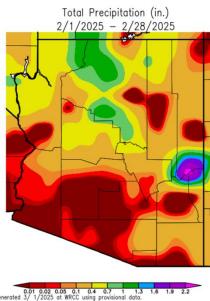
The 5 wettest Water Years are shown with green lines, the 5 driest Water Years are shown with brown lines, and the current Water Year is the blue line. The average state cumulative Water Year precipitation (October-February) was 1.17 inches, which is 3.87 inches below the October-February average of 5.04 inches.



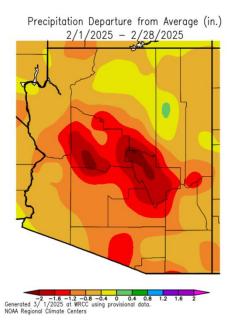


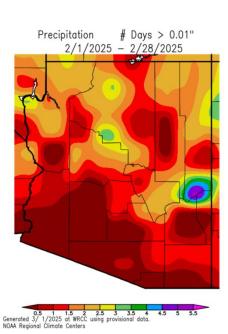


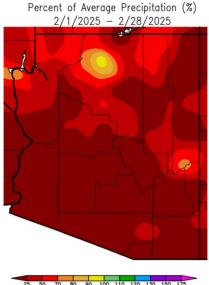






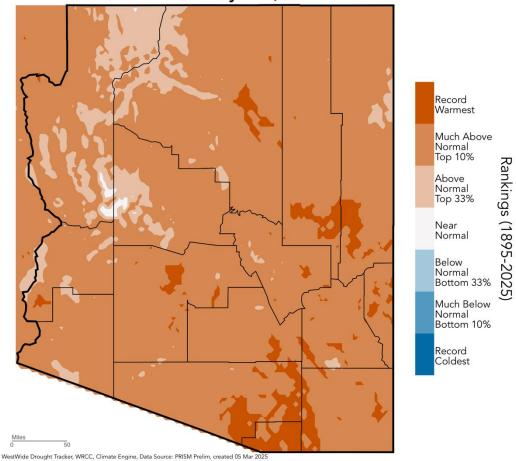




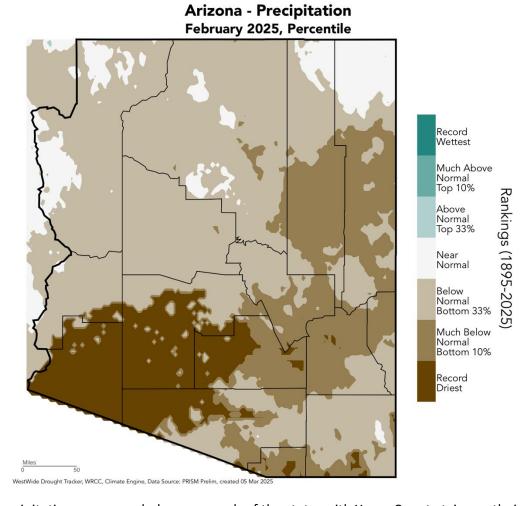


90 100 110 120 130 150 175 using provisional data.

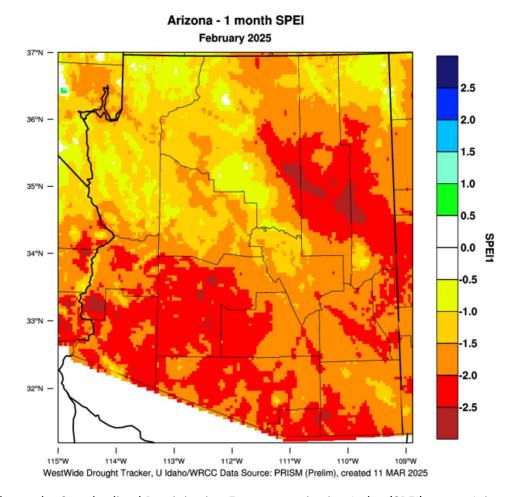
Arizona - Mean Temperature February 2025, Percentile



Temperatures across most of the state were much above normal, with Graham, Greenlee, Pinal, and Santa Cruz counties experiencing their hottest February on record.

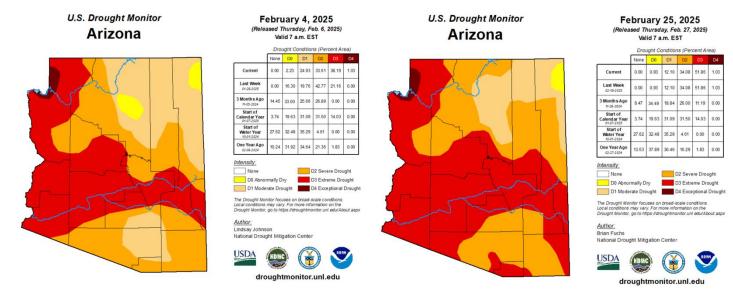


Below normal precipitation was recorded across much of the state, with Yuma County tying as their driest February on record.



This map shows the Standardized Precipitation Evapotranspiration Index (SPEI) across Arizona. February precipitation and evapotranspiration totals are measured across the state and are compared to previous February precipitation and evapotranspiration totals through the period of record (1895-present). Positive values represent wet conditions, while negative values represent dry conditions.

Short-term Drought



By the end of the month, Extreme (D3) short-term drought expanded to 52% of the state. Exceptional (D4) shortterm drought returned to Mohave County (1% of state). Moderate (D1) and Severe (D2) short-term drought filled northern and southeastern counties (46% of state). Abnormally dry (D0) conditions retreated to only 1% of the state in northeastern Apache County.

Percent of Statewide Area Change in Short-term Drought

Category	February 4, 2025	February 25, 2025	Change
No Drought	0	0	0
D0 – Abnormally Dry	2	1	-1
D1 – Moderate Drought	25	12	-13
D2 – Severe Drought	34	34	0
D3 – Extreme Drought	38	52	+14
D4 – Exceptional Drought	1	1	0









@AZStateClimate

droughtmonitor.unl.edu





Disclaimer

This report contains preliminary weather and climate data accessed from the National Oceanic and Atmospheric Administration. Additional information may come from other sources. While every effort is made to verify this information prior to publication, please recognize that the data used in this report are always preliminary and subject to revision. The user assumes responsibility for usage of information from this report. In no event will the Arizona State Climate Office or Arizona State University be liable to any user or third party for any direct, indirect, incidental, consequential, special, or exemplary damages, lost profit, or injuries resulting from any use or misuse of these data.

