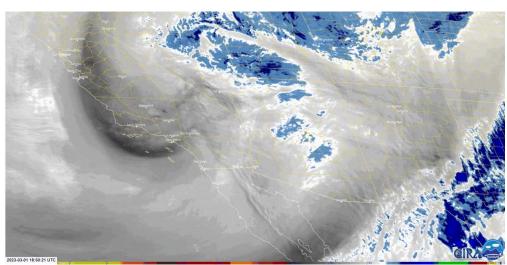
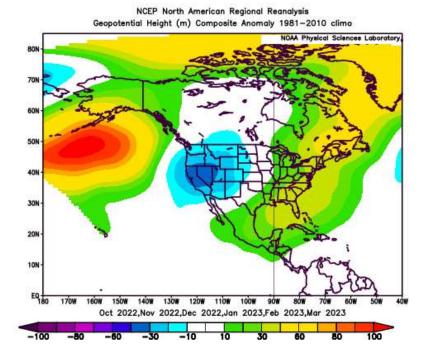
Winter: cold and wet!



https://www.weather.gov/psr/March1-2WinterStorm 7 events through March



Multiple atmospheric rivers
Anomalous troughing



Winter: cold and wet!



October to March

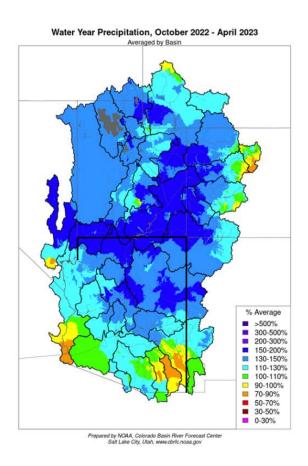
22nd wettest

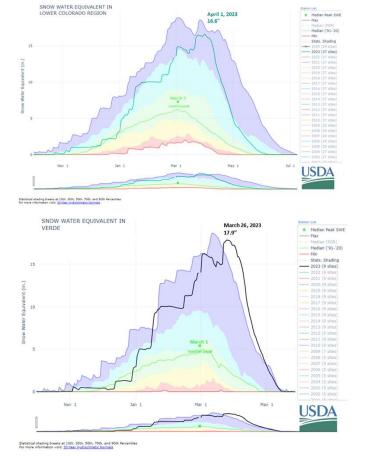


October to March



Snow melt was delayed





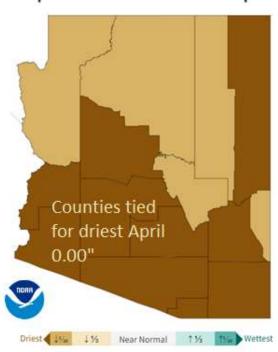


April 2023 was very dry

April 2023: 43rd warmest April



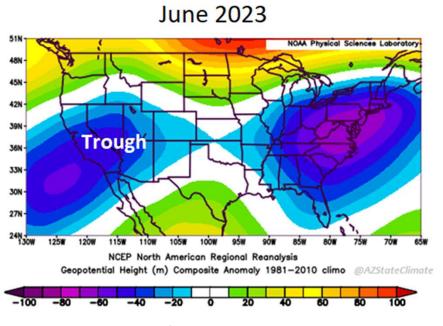
April 2023: 3rd driest April



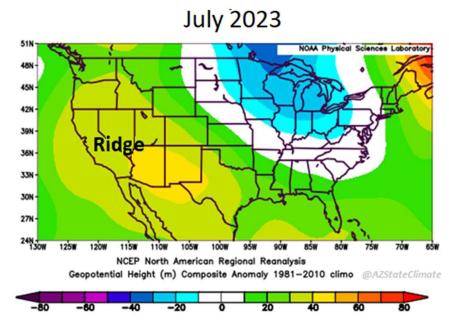
Last measurable precipitation at Phoenix Sky Harbor was March 22 and lasted until August 17 First time no measurable precipitation April-July at Phoenix Sky Harbor



Summer: hot and dry!



18th coldest June 39th driest June

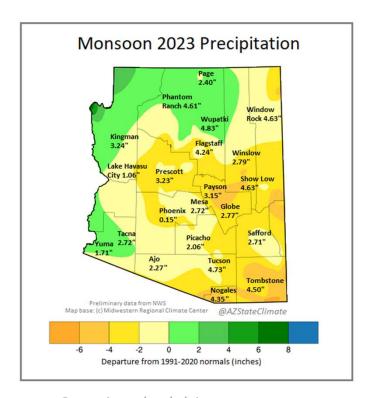


Warmest July (and warmest month)

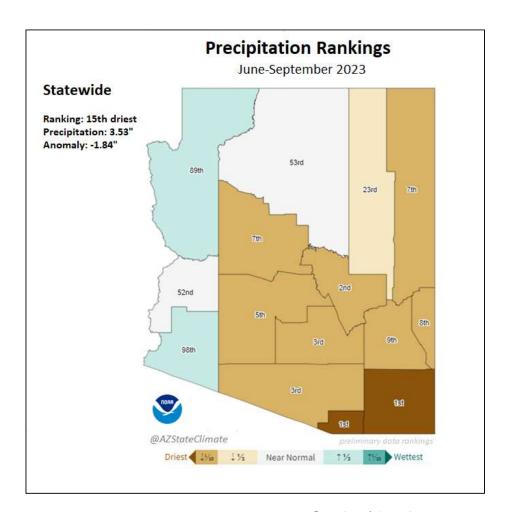
2nd driest July



Monsoon2023



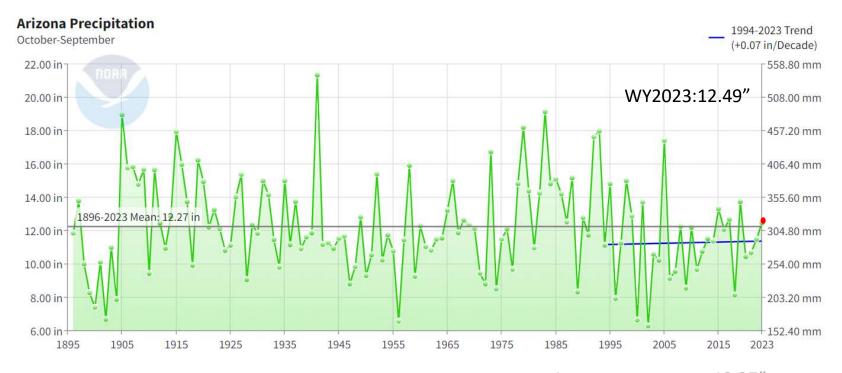
2 stations had driest monsoon: Phoenix Sky Harbor and Willcox



Last summer was wettest for Cochise County



This was Arizona's 30th year in drought



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

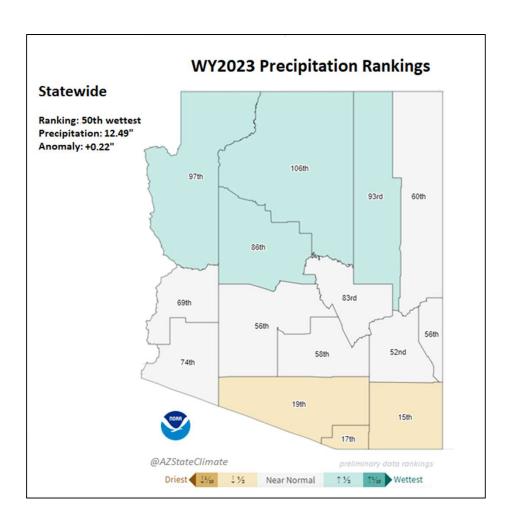
Long-term average 12.27" Drought average 11.29"



WY2023 Precipitation

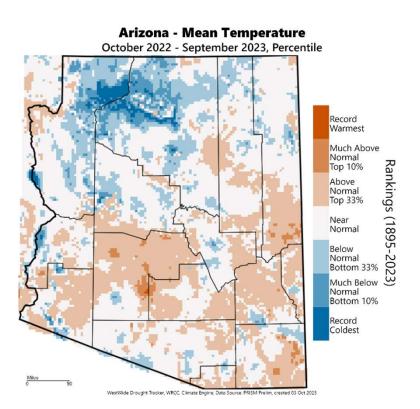
Arizona - Precipitation October 2022 - September 2023, Percentile Record Wettest Much Above Normal Top 10% Above Normal Top 33% Near Normal Below Normal Bottom 33% Much Below Normal Bottom 10% Record Driest

Oct-Mar 22nd wettest Apr-July 2nd driest Aug-Sep about average (55th driest)

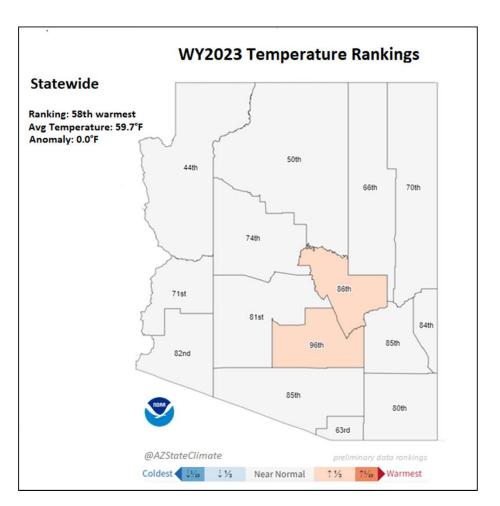




WY2023 Temperature

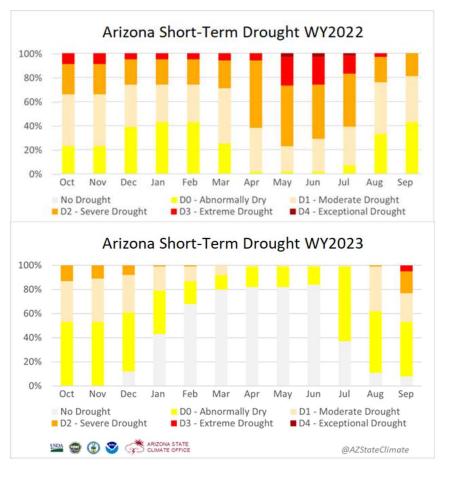


Oct-Jun 33rd coldest July-Sept 2nd warmest

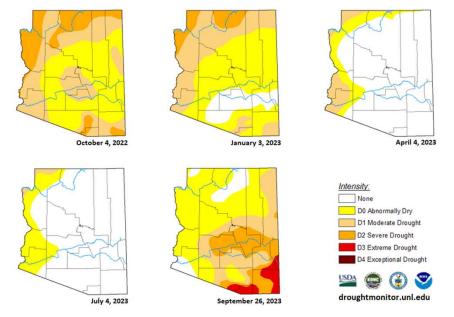




Short-term drought starting to degrade

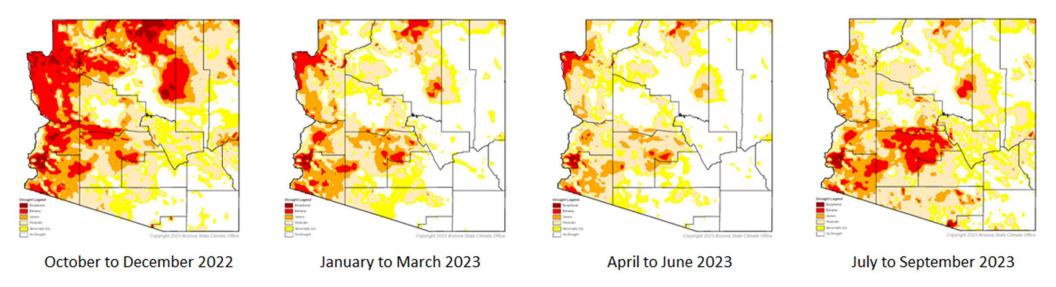


Arizona Short-Term Drought WY2023

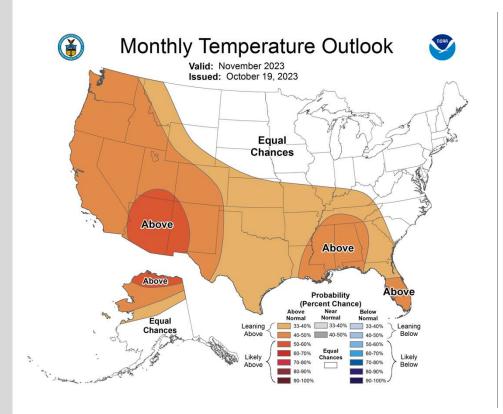


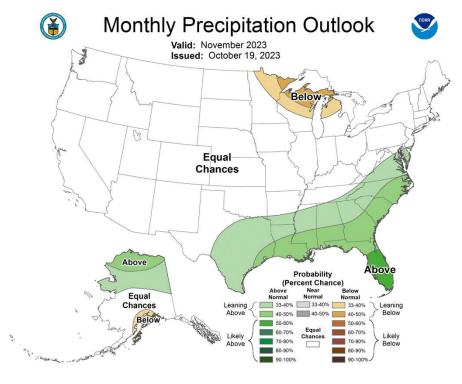


Long-term drought persists



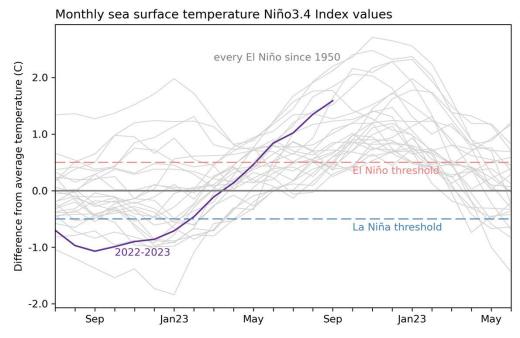




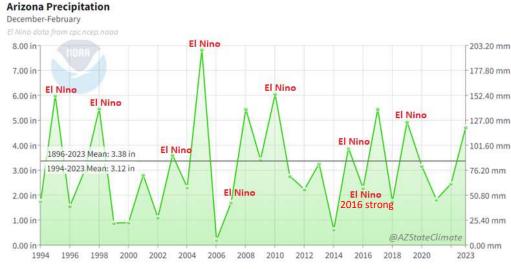




El Nino statistically brings wetter winter in AZ



El Nino on track to continue into Spring 2024



7 out of 9 El Nino winters wet Wettest Jan statewide (1993) was Neutral



Join us November 16 webinar: El Nino report!



CW3E Welcomes Paul Iñiguez

August 2, 2023

Paul Iñiguez joined CW3E as a Forecast Verification Analyst on August 1, 2023. Paul brings a wealth of operational forecasting experience to the center, gained through over 20 years with the NOAA National Weather Service (NWS). Paul is a native Minnesotan and earned his BS in Meteorology from St. Cloud State University. The early years of his NWS career took Paul to Weather Forecast Offices (WFOs) in Little Rock, AR and Phoenix, AZ, where he also earned an MA in Geography from Arizona State University (thesis: urban/anthropogenic effects on precipitation patterns across the Phoenix metropolitan area). Paul joined WFO Hanford, CA as the Science & Operations Officer (SOO) in 2012, which provided him with extensive experience with California's unique climates (including the extreme drought of the early/mid 2010s). While there he managed the office's science integration and training programs and led the

operational forecast unit. In 2015, Paul returned to WFO Phoenix as the SOO, also leading that office's science integration and training programs and being deeply involved in the day-to-day forecast operations. This included extreme precipitation events both from intense short duration rainfall from monsoonal thunderstorms and occasional deep, energetic winter storms with atmospheric rivers. Paul

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