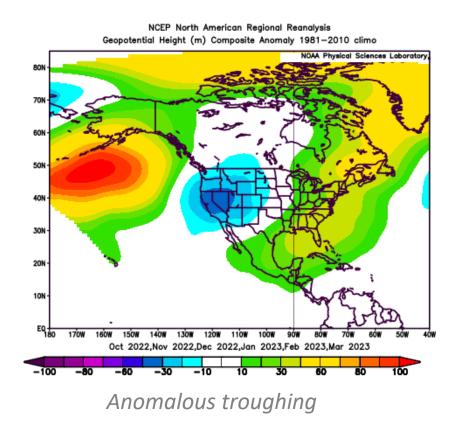
Drought Monitoring Technical Committee Report to the Arizona Interagency Coordinating Group

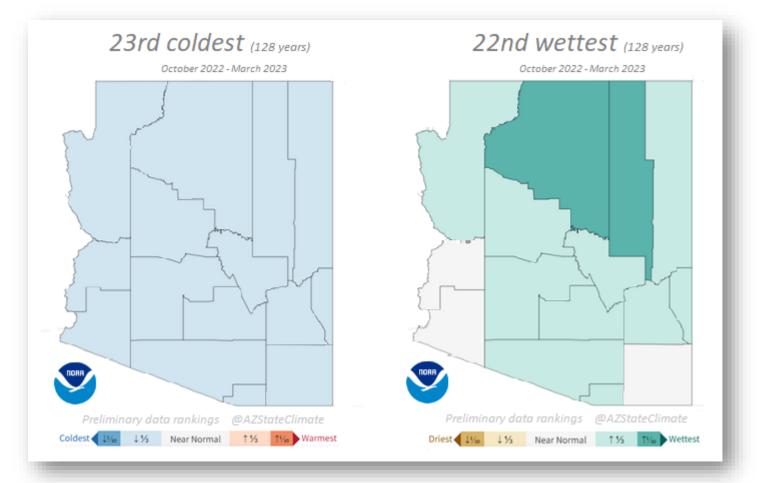
November 7, 2023

Erinanne Saffell, Ph.D. Arizona State Climatologist

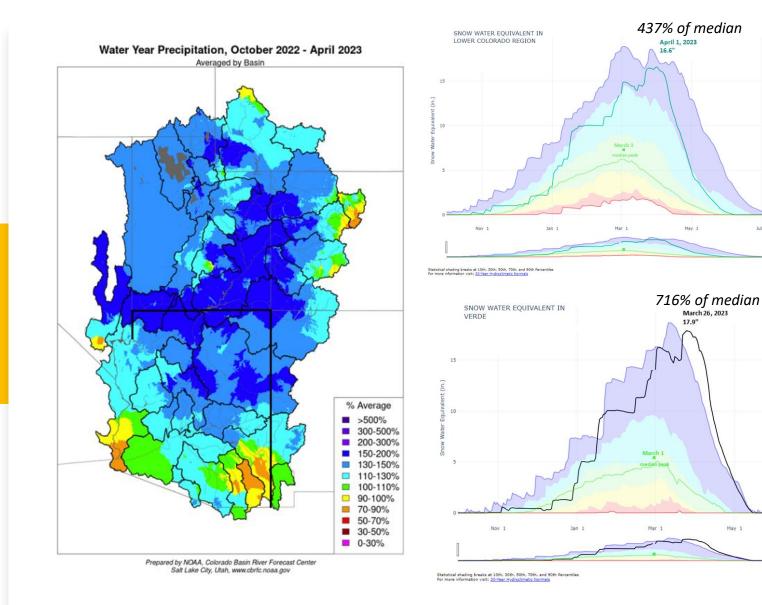
Lees Ferry, Arizona

October to March very wet and cold









Snow melt delayed Runoff efficiencies high

Station List

- Max

X Median Peak SWE

Median ('91-'20) Min Stats. Shading 2024 (24 sites) 2023 (37 sites)

USDA

Median Peak SWE

Max Median (POR) Median ('91-'20)

Min Stats. Shading 2023 (9 sites)

USDA

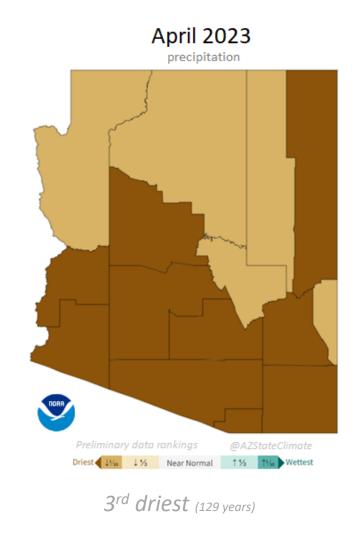
Pool elevation levels improved

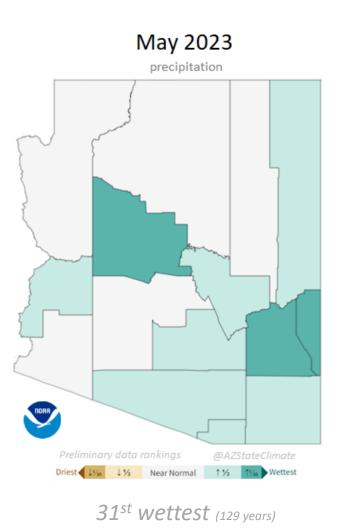
Reservoir releases

March storms increased snowpack



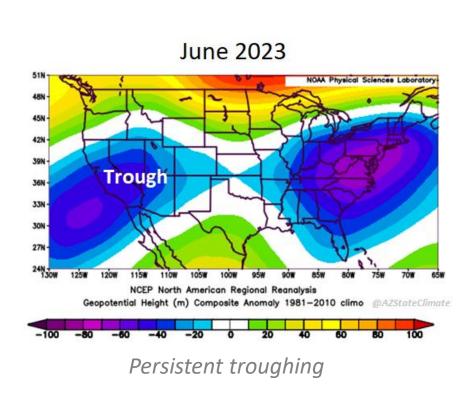
April very dry May mostly wet



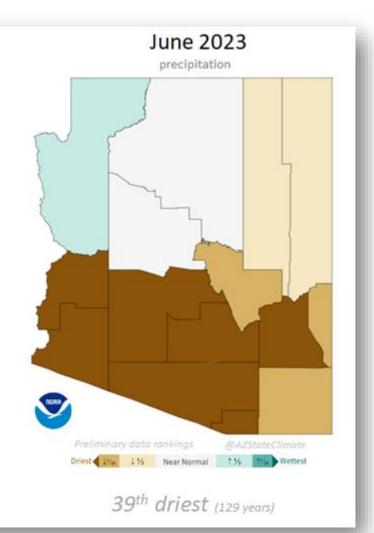




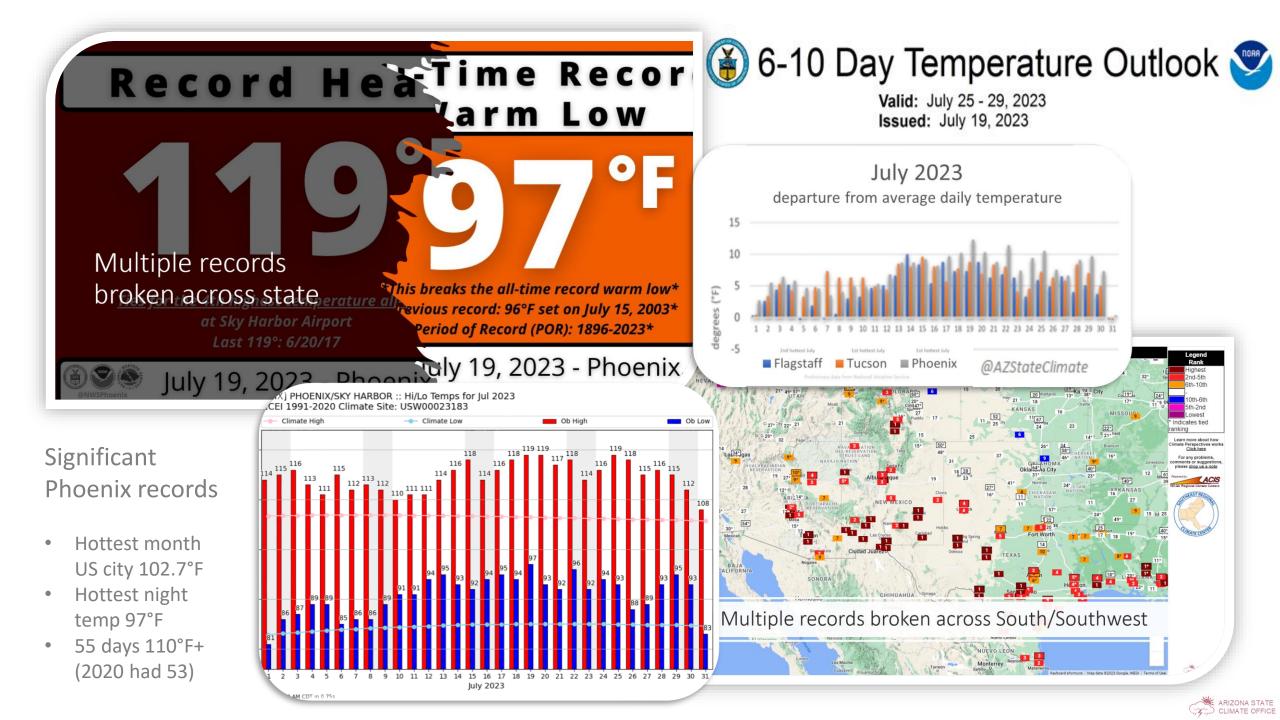
June very cold and dry



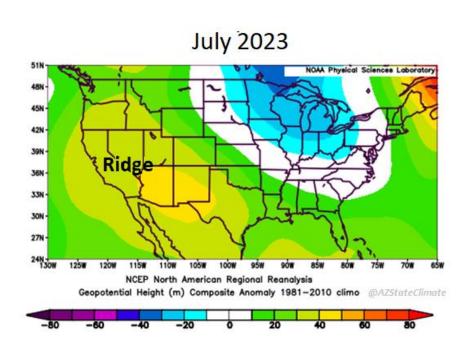




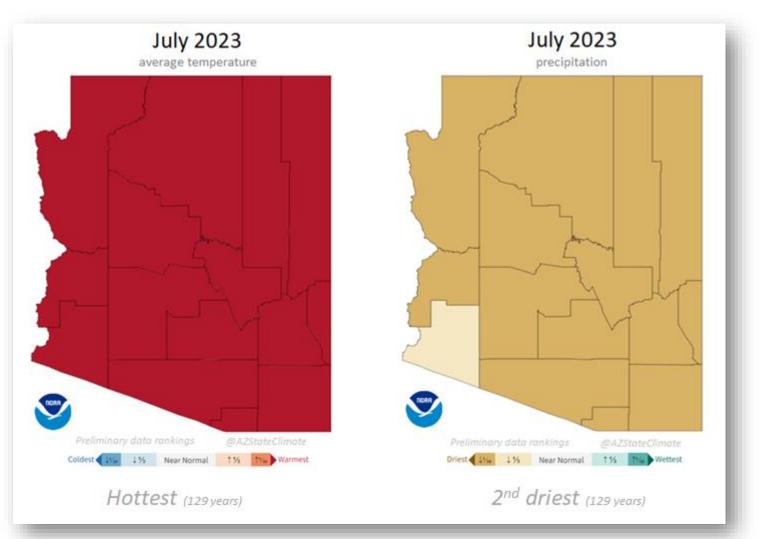




July very hot and dry

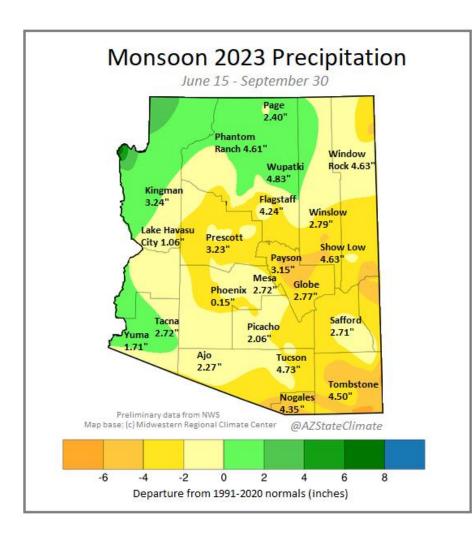


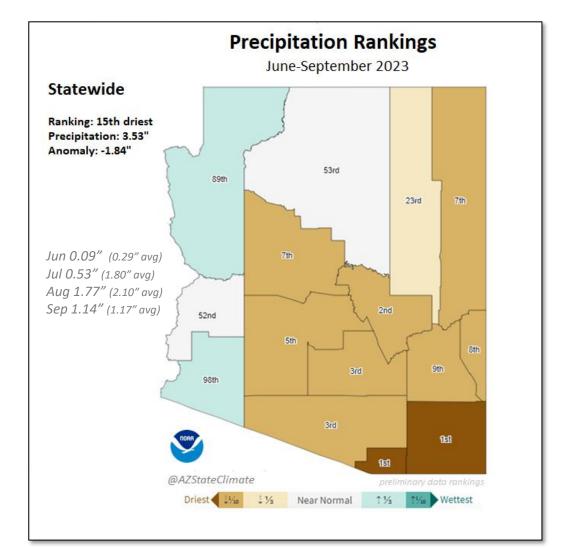
Multiple heat records broken across the state June-July 2nd driest June-July on record





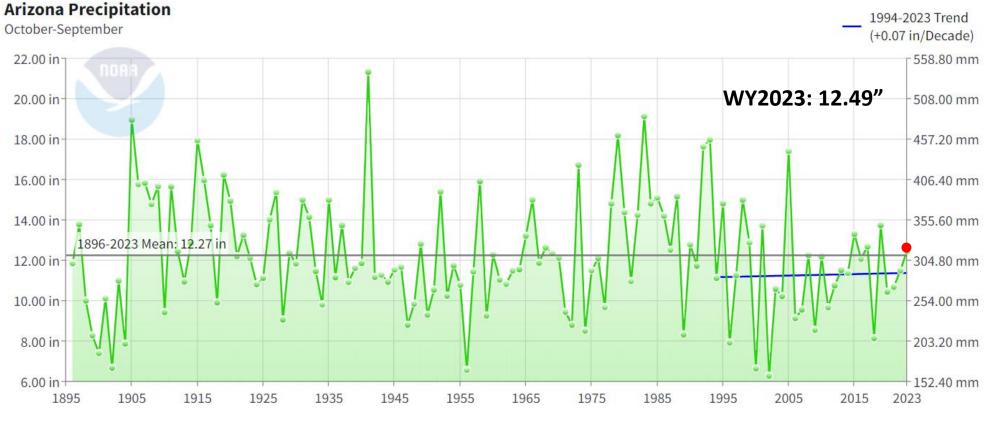
15th driest statewide June-September







Arizona has been in drought 30 years

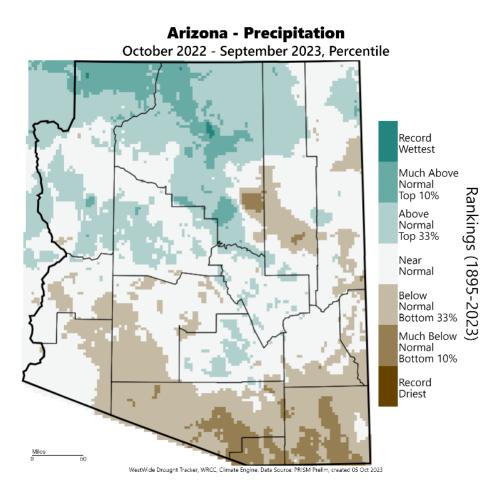


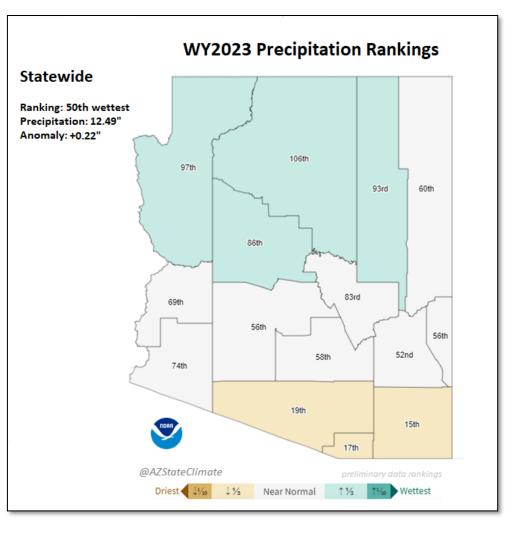
20 of last 30 years have been below long-term average

Long-term average 12.27" Drought average 11.29"



WY2023: slightly above long-term average statewide precipitation (128 WY)

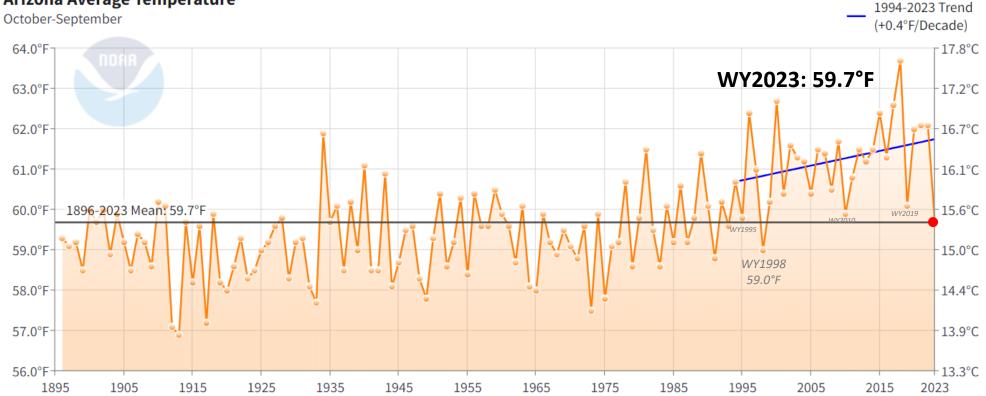




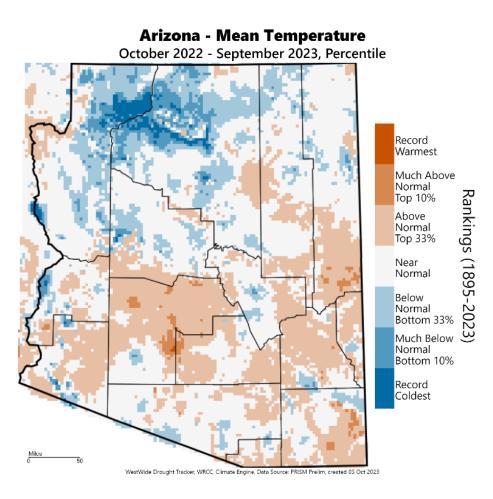


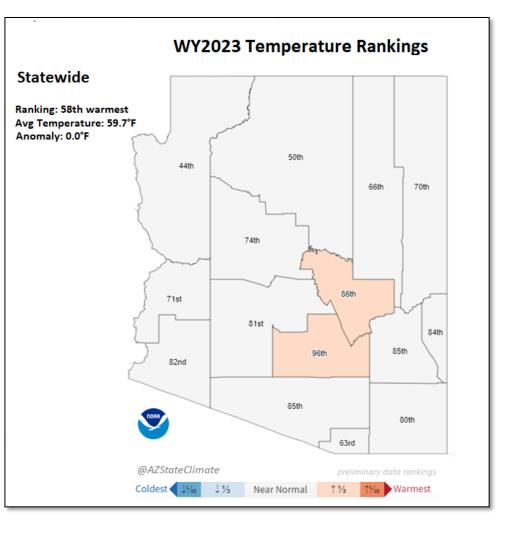
Second coldest WY in last 30 years

Arizona Average Temperature



WY2023: tied with long-term average statewide temperature (128 WY)

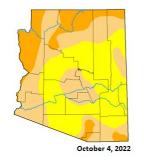




ARIZONA STATE

Short-term drought improved from winter precipitation; degraded from dry summer

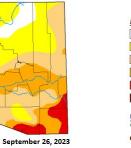
Arizona Short-Term Drought WY2023



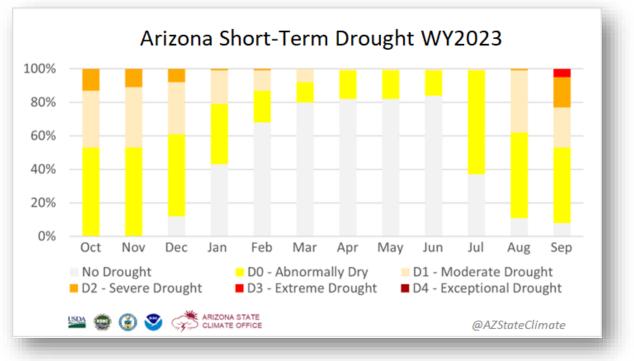










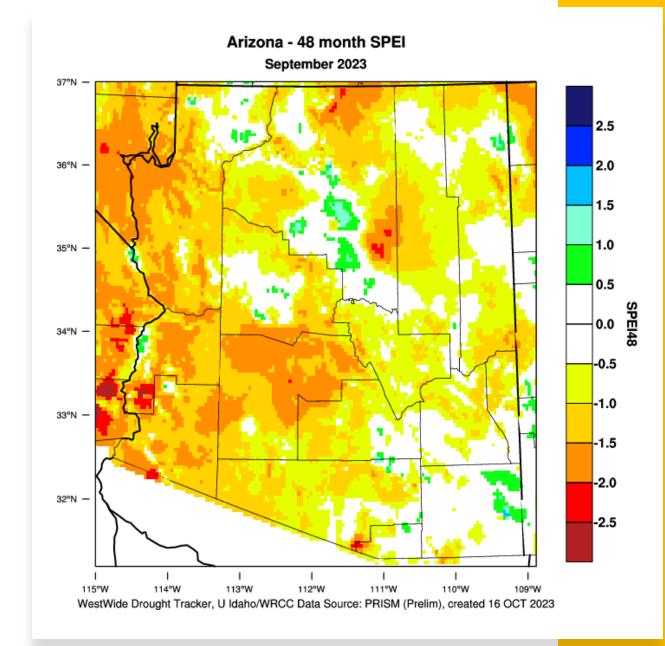




Deficit over several years

Previous 5 WY

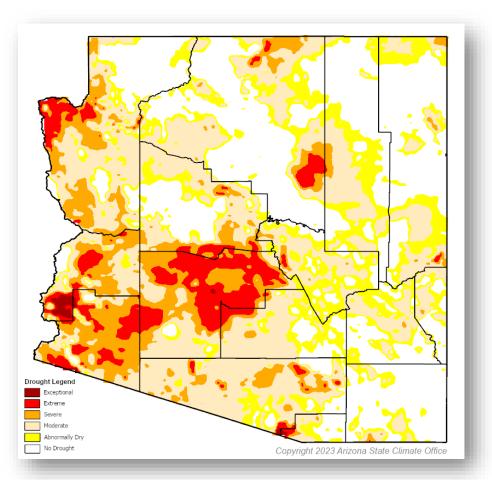
WY2022 **11.52"** WY2021 **10.71"** WY2020 **10.47"** WY2019 **13.76"** WY2018 **8.17"**



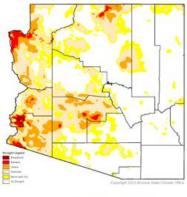
Standardized Precipitation Evapotranspiration Index



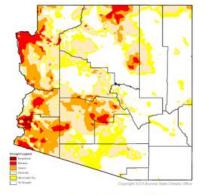
Long-term drought persists



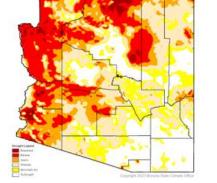




April to June 2023



January to March 2023



October to December 2022



Thank you

Erinanne Saffell, Ph.D. Arizona State Climatologist

> Erinanne.Saffell@asu.edu azclimate.asu.edu @AZStateClimate ×



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