

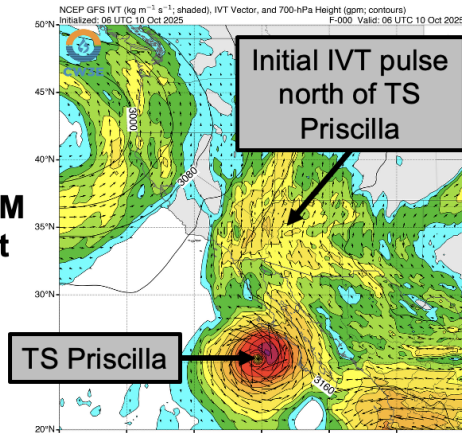
Quick Summary of the Recent Precipitation Events in the Colorado River Basin

Updated: 16 October 2025

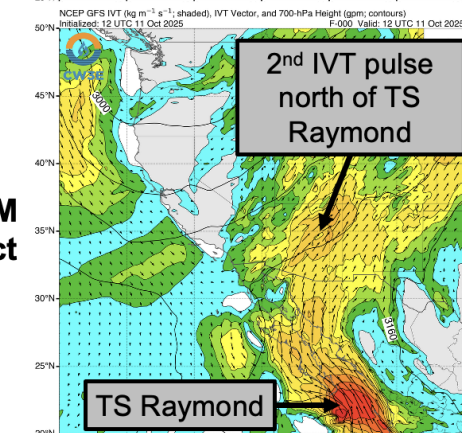
- Moisture associated with Tropical Storms Priscilla and Raymond fueled multiple episodes of heavy rainfall over portions of the Colorado River Basin between Thu 9 Oct and Tue 14 Oct.
- The first precipitation episode began on Thu 9 Oct as a predecessor rain event (PRE) within a poleward surge of moisture north of TS Priscilla. A second pulse of moisture transport north of TS Raymond helped prolong the PRE through Sat 11 Oct.
- After a brief lull in precipitation, moisture from the remnants of both tropical systems supported the development of convection across central and southern Arizona on Sun 12 Oct.
- A final pulse of poleward moisture transport formed over the Colorado River Basin on Mon 13 Oct as the remnant tropical moisture interacted with a region of strengthening southerly flow east of a cutoff low.
- The second and third pulses of moisture transport exceeded $250 \text{ kg m}^{-1} \text{ s}^{-1}$ over southwestern Colorado and likely supported orographic enhancement of precipitation in the San Juan Mountains.
- The heaviest precipitation during Thu 9 Oct – Sat 11 Oct occurred over north central Arizona, southwestern Utah, and southwestern Colorado (2–5 inches).
- The heaviest precipitation during Sun 12 Oct – Mon 13 Oct occurred over eastern Maricopa County and Gila County in Arizona (3–6 inches).
- Total precipitation between 5 AM PDT Thu 9 Oct and 5 AM PDT Tue 14 Oct exceeded 6 inches in the San Juan Mountains. Some locations in western Maricopa County received >50% of normal total water year precipitation during this 5-day period.
- Gila Bend Air Force Auxiliary Airport received 3.29 inches of rainfall in a 6-hour period, exceeding the 200-year storm based on NOAA Atlas 14.
- Heavy rainfall from the PRE caused flash flooding in north central Arizona and southwestern Utah on Fri 10 Oct and Sat 11 Oct. Two debris flows were reported near Pine Valley, UT, and Wolf Creek Pass, CO.
- Convective rainfall triggered flash flooding across central and southern Arizona on Sun 12 Oct and Mon 13 Oct, particularly in Maricopa and Gila Counties. Severe thunderstorms also produced damaging winds and large hail.
- Moenkopi Wash at Moenkopi, AZ, and the San Juan River at Pagosa Springs, CO, both exceeded major flood stage on Sat 11 Oct. The San Juan River at Pagosa Springs, CO, also rose above major flood stage on Mon 14 Oct, reaching its 3rd highest peak stage since records began in 1911.

GFS 700-hPa Geopotential Height & IVT Analysis

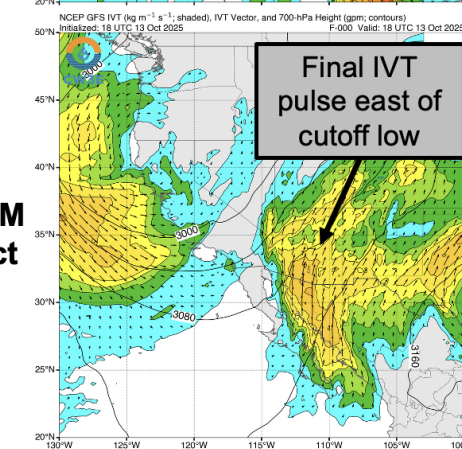
Valid: 11 PM
PDT 9 Oct



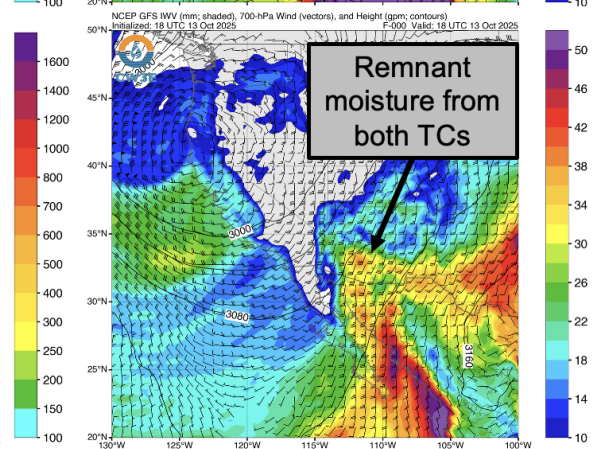
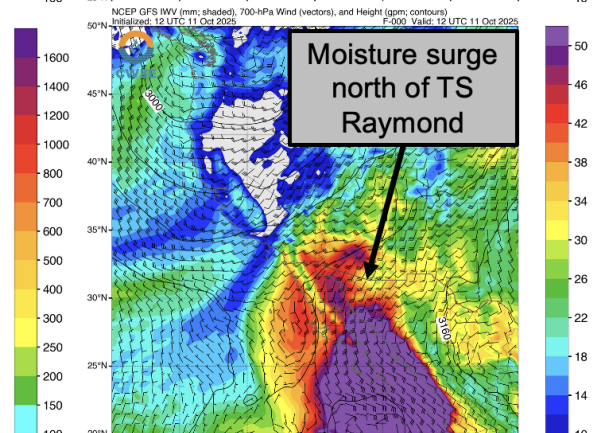
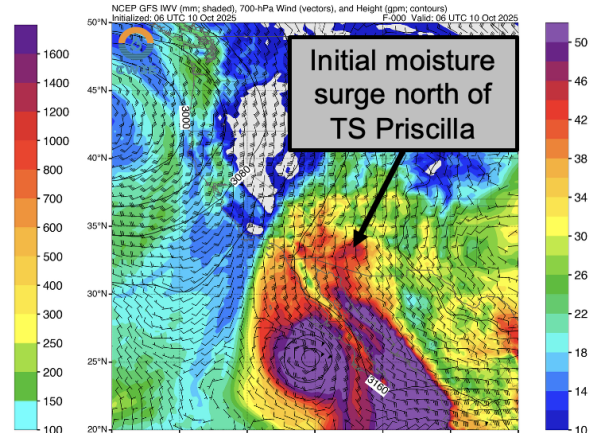
Valid: 5 AM
PDT 11 Oct



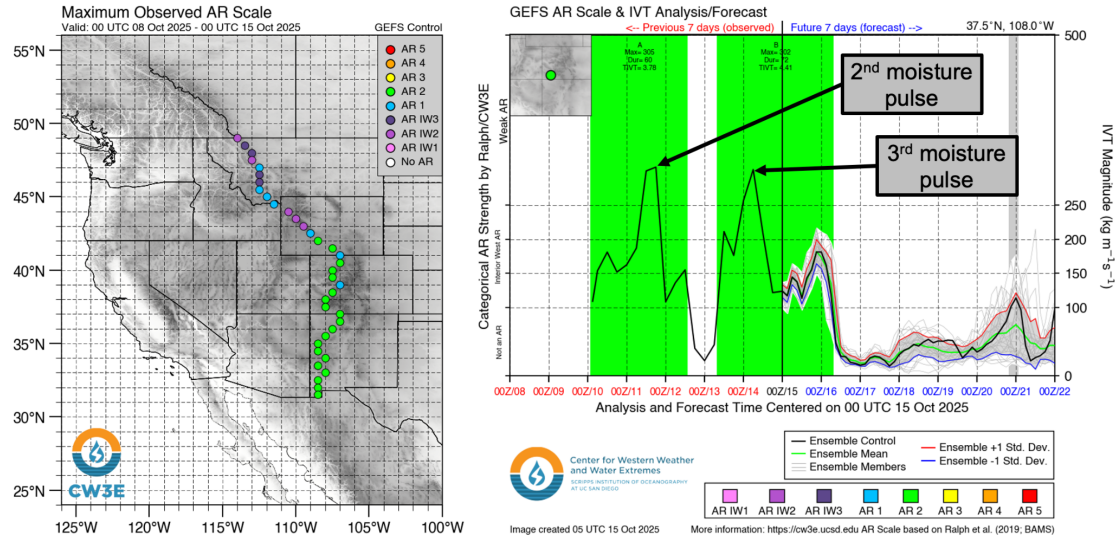
Valid: 11 AM
PDT 13 Oct



GFS 700-hPa Geopotential Height, Wind & IWV Analysis

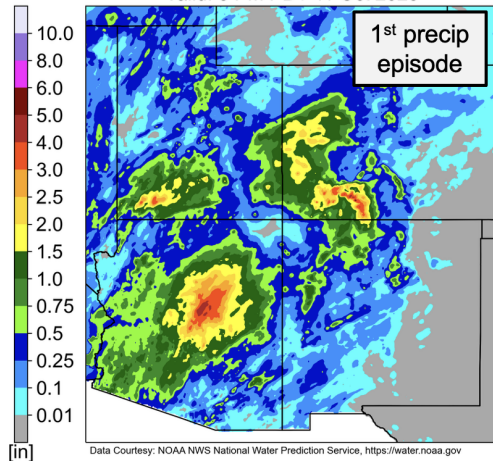


GEFS Control Interior West AR Scale Analysis



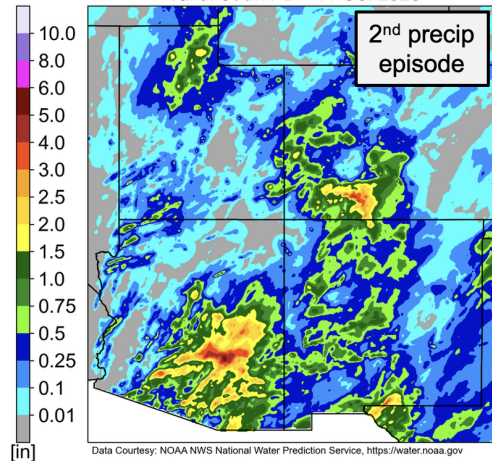
NWS Stage IV 60-h QPE

Valid: 5 PM PDT 11 Oct 2025



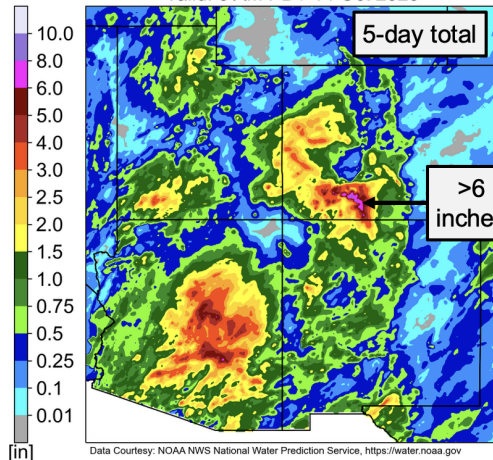
NWS Stage IV 60-h QPE

Valid: 5 AM PDT 14 Oct 2025



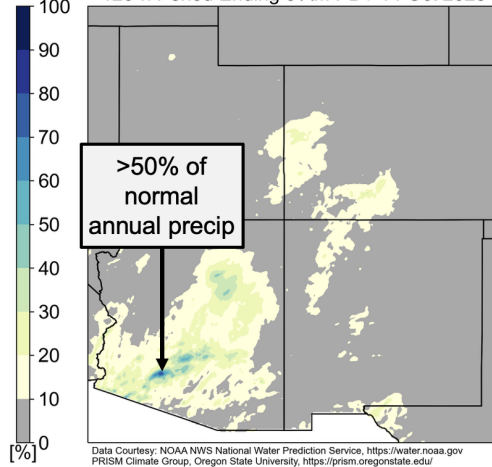
NWS Stage IV 120-h QPE

Valid: 5 AM PDT 14 Oct 2025



Percent of Normal WY Precipitation

120-h Period Ending 5 AM PDT 14 Oct 2025

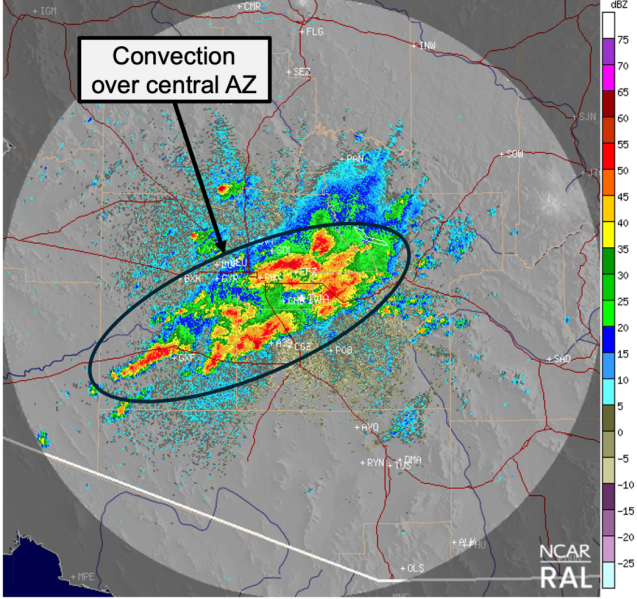


KIWA Phoenix, AZ/Mesa

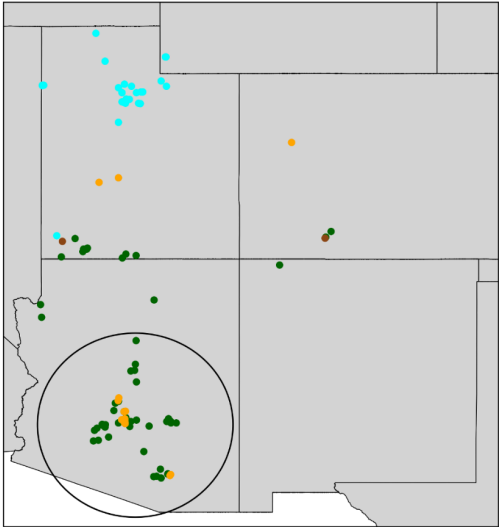
NEXRAD Level II Composite reflectivity: max in column

14:59:00 UTC Sun 12 October 2025

(c) UCAR <http://weather.rap.ucar.edu/radar/>



NWS Local Storm Reports: 9-14 Oct 2025

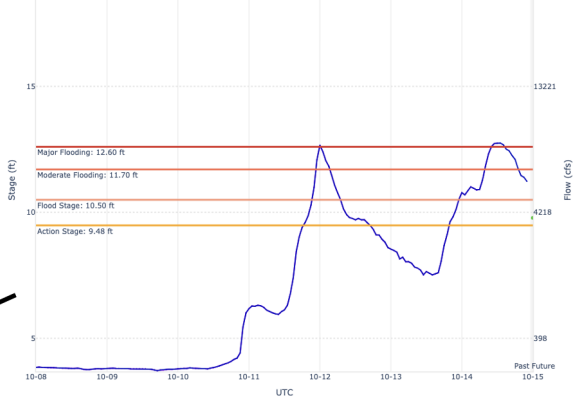


Data Courtesy: Iowa Environmental Mesonet, <https://mesonet.agron.iastate.edu/>

- Flooding
- Landslides
- Severe Wx
- Wind

Forecast Hydrograph - San Juan - Pagosa Springs (PSPC2) - NOAA/CBRFC

Fcst Date: 10/14/18Z - Latest Ob: 11.23 ft, 5902 cfs (10/14/22Z) - Flood: 10.5 ft, 4864 cfs - Action: 9.5 ft, 3601 cfs



Forecast Hydrograph - Moenkopi Wash - Moenkopi, At (MOEA3) - NOAA/CBRFC

Fcst Date: 10/14/21Z - Latest Ob: 19.85 ft, 134 cfs (10/14/23Z) - Flood: 25.0 ft, 1717 cfs - Action: 24.0 ft, 1168 cfs

