

## Storm Data and Unusual Weather Phenomena - July 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### CALIFORNIA, South Central

(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z301) LOS BANOS-DOS PALOS, (CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z303) PLANADA-LEGRAND-SNELLING, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFTER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z313) BUENA VISTA, (CA-Z314) BAKERSFIELD, (CA-Z315) SOUTHEAST SAN JOAQUIN VALLEY, (CA-Z316) SOUTH END SAN JOAQUIN VALLEY, (CA-Z317) MARIPOSA - MADERA FOOTHILLS, (CA-Z318) MARIPOSA - MADERA LOWER SIERRA, (CA-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z320) FRESNO - TULARE LOWER SIERRA, (CA-Z321) SOUTH END SIERRA FOOTHILLS, (CA-Z322) SOUTH END OF THE LOWER SIERRA, (CA-Z324) YOSEMITE VALLEY, (CA-Z325) SAN JOAQUIN RIVER CANYON, (CA-Z332) KERN RIVER VALLEY, (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S), (CA-Z339) MOJAVE DESERT

	07/02/24 10:00 PST	0	Excessive Heat
	07/13/24 19:00 PST	0	

#### (CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY

	07/02/24 10:00 PST	0	Heat
	07/13/24 19:00 PST	0	

A large upper ridge of high pressure pushes inland into California on July 2. This ridge provided our area with a hot and dry airmass which persisted for several days until the ridge moved east and temperatures cooled below dangerous levels on July 14. Several record high maximum temperatures and high minimum temperatures were set between July 6 and July 8 and again on July 11 and 12. In addition to the persistent heat between July 2 and July 13, low daytime humidity with poor overnight recovery and heavy fuel loading resulted in an increased fire danger for much of the area during this period.

#### MARIPOSA COUNTY --- 1.0 ESE YOSEMITE NATL PARK [37.75, -119.53]

	07/13/24 15:00 PST	0	Thunderstorm Wind (EG 35 kt)
	07/13/24 16:00 PST	0	Source: Newspaper

Media report of a 20 year old hiker slipping and falling off of cables while descending Half Dome during a thunderstorm which was producing heavy rainfall and gusty winds. The fall resulted in fatal injuries.

#### MARIPOSA COUNTY --- 0.6 W YOSEMITE VLG [37.75, -119.59]

	07/13/24 15:32 PST	0	Hail (1.00 in)
	07/13/24 15:32 PST	0	Source: Social Media

Video evidence of 1.00 inch diameter (quarter sized) hail posted on Facebook.

A surge of upper level tropical moisture pushed into central California from the southeast during the morning of July 13 and continued for much of the day. At first the thunderstorms were mainly dry as the lower and middle levels remained dry, and lightning from these thunderstorms ignited several new wildfires across the area. As the middle levels became more moist during the late afternoon and evening the thunderstorms became more in the way of rain producers. There were some locations in Yosemite National Park and the Upper San Joaquin River Basin which picked up between a quarter and a half inch of rainfall, but lower elevations generally only picked up a trace to a few hundredths of an inch of rain. There were also several reports of hail with one cell in Yosemite National Park.

#### KERN COUNTY --- 10.8 E ONYX [35.66, -118.04]

	07/14/24 18:00 PST	0	Heavy Rain
	07/14/24 19:00 PST	0	Source: RAWS

The Walker Pass RAWS measured 0.52 inches of rainfall between 1900 and 2000 PDT.

Topical moisture streaming northward into central California triggered another round of afternoon and evening thunderstorms mainly impacting the Sierra Nevada and the Kern County Desert areas. While rainfall amounts were generally a tenth of an inch or less, a few locations in the south end of the upper Sierra and the Kern River Valley which were impacted by heavier thunderstorms measured over a quarter of an inch of rainfall.

(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z301) LOS BANOS-DOS PALOS, (CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z303) PLANADA-LEGRAND-SNELLING, (CA-Z304) COALINGA - AVENAL, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFTER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z313) BUENA VISTA, (CA-Z314) BAKERSFIELD, (CA-Z315) SOUTHEAST SAN JOAQUIN VALLEY, (CA-Z316) SOUTH END SAN JOAQUIN VALLEY, (CA-Z317) MARIPOSA - MADERA FOOTHILLS, (CA-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z321) SOUTH END

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<b>SIERRA FOOTHILLS, (CA-Z332) KERN RIVER VALLEY, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S), (CA-Z339) MOJAVE DESERT</b>				
	07/21/24 10:00 PST		0	Excessive Heat
	07/26/24 19:00 PST		0	

A large area of high pressure built westward into California on July 21 and 22 which resulted in the return of dangerous heat across the Kern County Deserts on July 21 and across the San Joaquin Valley West Side Hills, Sierra Foothills, Yosemite Valley and Kern River Canyon by July 22. The heat continued through July 26 when an upper trough approached the California coast and brought cooler temperatures to the area as it moved inland on July 27.

<b>TULARE COUNTY --- 21.0 E ROADS END [35.97, -118.13], 21.1 E ROADS END [35.97, -118.13], 20.9 E ROADS END [35.97, -118.13], 20.9 E ROADS END [35.97, -118.13]</b>				
	07/22/24 16:40 PST		0	Debris Flow
	07/22/24 17:40 PST		0	Source: NWS Employee

NWS Incident Meteorologist reported burn scar debris flooding on Chimney Basin Rd. south of Kennedy Meadows. Field operations estimated 0.25 inches of rainfall triggered this event.

Southeast flow around a high pressure center over southern Nevada brought some upper level tropical moisture to central California. With instability increasing over the Sierra Nevada during the afternoon scattered thunderstorms broke out, and some of them produced locally heavy rainfall.