

Storm Data and Unusual Weather Phenomena - September 2021

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

(CA-Z179) WEST SIDE HILLS, (CA-Z180) SAN JOAQUIN CONFLUENCE, (CA-Z181) MERCED AND MADERA, (CA-Z182) WESTERN SAN JOAQUIN VALLEY, (CA-Z183) FOGGY BOTTOM, (CA-Z184) FRESNO, (CA-Z185) TULARE COUNTY, (CA-Z186) SOUTHERN KINGS COUNTY, (CA-Z187) WESTERN SAN JOAQUIN VALLEY IN KERN COUNTY, (CA-Z188) EASTERN SAN JOAQUIN VALLEY IN KERN COUNTY, (CA-Z189) BAKERSFIELD, (CA-Z190) CENTRAL SIERRA FOOTHILLS, (CA-Z191) SOUTHERN SIERRA FOOTHILLS, (CA-Z192) CENTRAL SIERRA, (CA-Z193) NORTH KINGS RIVER, (CA-Z194) SEQUOIA KINGS, (CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA, (CA-Z197) FORT TEJON, (CA-Z198) INDIAN WELLS VALLEY, (CA-Z199) KERN COUNTY DESERT

09/01/21 00:00 PST	0	Drought
09/30/21 23:59 PST	0	

Nearly all of the central California Interior remained classified as being in an exceptional drought by the end of September, 2021 due to a long term precipitation deficit. As of September 30, 2021, the impacted area has received less than 50% of normal precipitation since July 1, 2020.

(CA-Z179) WEST SIDE HILLS, (CA-Z180) SAN JOAQUIN CONFLUENCE, (CA-Z181) MERCED AND MADERA, (CA-Z182) WESTERN SAN JOAQUIN VALLEY, (CA-Z183) FOGGY BOTTOM, (CA-Z184) FRESNO, (CA-Z185) TULARE COUNTY, (CA-Z186) SOUTHERN KINGS COUNTY, (CA-Z187) WESTERN SAN JOAQUIN VALLEY IN KERN COUNTY, (CA-Z188) EASTERN SAN JOAQUIN VALLEY IN KERN COUNTY, (CA-Z189) BAKERSFIELD

09/06/21 10:00 PST	0	Heat
09/08/21 23:59 PST	0	

(CA-Z198) INDIAN WELLS VALLEY, (CA-Z199) KERN COUNTY DESERT, (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-Z309) BUTTOWILLLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFER, (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

09/06/21 10:00 PST	0	Excessive Heat
09/09/21 19:00 PST	0	

A large upper high pressure center strengthened over the Great Basin during the Labor Day weekend (September 4 to September 6) resulting in temperatures rising to much above normal levels over the San Joaquin Valley, West Side Hills and Kern County Deserts on September 6. The dangerous heat remained prevalent over the area through September 9 prompting the issuance of heat highlights as the large upper high produced a pronounced southeast flow over the area. A trough moved into northern California during the morning of September 10 bringing an end to the dangerous heat as afternoon highs remained below the century mark at most stations.

KERN COUNTY --- (EDW)EDWARDS AFB [34.92, -117.90]

09/09/21 14:01 PST	0	Thunderstorm Wind (MG 50 kt)
09/09/21 14:01 PST	0	Source: ASOS

The Edwards AFB ASOS measured a peak wind gust of 58 mph from a thunderstorm.

KERN COUNTY --- (EDW)EDWARDS AFB [34.92, -117.90]

09/09/21 14:01 PST	0	Heavy Rain
09/09/21 16:57 PST	0	Source: ASOS

The ASOS at Edwards AFB measured 1.20 inches of rainfall from a thunderstorm between 1401 PDT and 1657 PDT.

The large upper high pressure center over the Great Basin not only provided much of the area with near record heat, but also spread some tropical moisture into the area on September 9 which resulted in scattered thunderstorms during the afternoon. Moderate to heavy rainfall occurred with some of the thunderstorms in the Kern County Deserts and along the Kern River Valley where several stations measured over half an inch of rainfall. Between a quarter and a half inch of rainfall in portions of the south end of the Upper Sierra. The rainfall was less significant elsewhere with most stations picking up between a trace to a tenth of an inch of rainfall. A few of the thunderstorms also produced strong outflow wind gusts in the Kern County Deserts.

(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)

09/27/21 19:40 PST	0	High Wind (MAX 53 kt)
09/28/21 19:00 PST	0	

An upper trough pushed through California between the evening of September 27 and the evening of September 28. A cold front associated with this trough brought a cooler airmass into the area along with increased pressure gradients which resulted in a period of gusty winds over the Kern County Mountains and Deserts. Several stations measured gusts around 60 mph during this timeframe. The winds diminished by the morning of September 29 as the trough moved to the east of the area.

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