

## Storm Data and Unusual Weather Phenomena - November 2024

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

(CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)

11/02/24 23:00 PST	0	High Wind (MAX 66 kt)
11/04/24 01:26 PST	0	

An upper trough dropped out of the Gulf of Alaska on November 1 and into the Pacific Northwest on November 2 then dropped into the Great Basin on November 3 then deepened on the 4th. This trough brought cooler temperatures to the area, light precipitation on November 2 and a period of gusty winds to the Sierra Nevada and to eastern Kern County between the evening of November 2 and the early morning of November 4. Precipitation amounts were generally very light (a tenth of an inch or less) with a shortwave which moved through the area during the morning of November 2. However, increased gradients produced wind gusts exceeding 45 mph at several locations between the evening of November 2 and the early morning of November 4. There were some stations that had brief gusts in excess of 60 mph. The winds diminished during the early morning of November 4 as gradients decreased.

(CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE

11/06/24 07:00 PST	0	High Wind (MAX 56 kt)
11/06/24 09:50 PST	0	

A strong pressure gradient developed during the evening of November 5 in between a strong upper low pressure system centered near the Four Corners area and a large high pressure ridge off the California coast. The strong gradient produced a period of gusty offshore winds over southern and eastern Kern County on November 6 with several stations the the Tehachapi and Grapevine areas as well as across the Mojave Deserts slopes and the desert areas measuring gusts in excess of 45 mph. The winds decreased during the morning of November 7 as gradients relaxed.

(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z307) FRESNO - CLOVIS, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY

11/11/24 02:45 PST	0.41M	Dust Storm
11/11/24 14:05 PST	0	

(CA-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z322) SOUTH END OF THE LOWER SIERRA, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z329) GRANT GROVE AREA, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)

11/11/24 13:05 PST	0	High Wind (MAX 80 kt)
11/11/24 23:00 PST	0	

An upper low pressure center moved eastward across northern California on November 11. A cold front that was associated with the upper low pushed southward through central California during the afternoon and evening producing widespread wind gusts above 45 mph as well as areas of blowing dust reducing visibility to near zero in the San Joaquin Valley. The dust resulted in a 20 vehicle accident near Chowchilla which led to SR 152 being closed for much of the afternoon. Many stations measured between a quarter and a half inch of rainfall with this system with several stations in the Sierra Nevada picking up between a quarter and a half inch of liquid precipitation. The precipitation mainly fell as snow above 7000 feet with several stations in the higher Sierra Nevada picking up between 2 and 5 inches of new snowfall. The precipitation ended during the evening of November 11 and winds diminished during the early morning of November 12.

(CA-Z302) MERCED-MADERA-MENDOTA

11/12/24 00:00 PST	0	Dense Fog
11/12/24 10:20 PST	0	

High pressure build into central California following the departure of the system which brought widespread precipitation to the rea the previous day. With the addition of lo level moisture along with clearing skies and light winds, a area of dense fog formed along the SR 99 corridor in Merced and Madera counties and reduced visibility to an eighth of a mile. The fog completely dissipated by late morning.

(CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z311) HANFORD - CORCORAN - LEMOORE

11/13/24 04:45 PST	0	Dense Fog
11/13/24 10:00 PST	0	

High pressure kept skies mainly clear and winds light across the San Joaquin Vallely during the morning of November 13. With recent rains providing for a low level moisture supply and inversion conditions present, some dense fog formed along the SR 198 corridor in Kings County from the SR 43 exchange westward to Lemoore Naval Air Station where visibility was reduced to an eighth of a mile. Elsewhere in the valley, visibility was generally in the one to four mile range. The fog completely dissipated by late morning.

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<b>(CA-Z311) HANFORD - CORCORAN - LEMOORE</b>				
	11/14/24 05:35 PST		0	Dense Fog
	11/14/24 08:15 PST		0	
<p>Although fog was less prevalent in the San Joaquin Valley that it was during the previous two mornings, dense fog formed around Hanford reducing visibility to an eighth of a mile and several school districts in the Hanford area decided to open late due to low visibility. The fog completely dissipated by late morning.</p>				
<b>(CA-Z338) MOJAVE DESERT SLOPE(S)</b>				
	11/15/24 08:11 PST		0	High Wind (MAX 63 kt)
	11/15/24 16:50 PST		0	
<p>An upper trough moved through central California between the evening of November 14 and the evening of November 15. This system did bring widespread light precipitation to the area with the south end of the San Joaquin Valley, the Grapevine area and the Tehachapi area receiving the most significant precipitation between a quarter and three quarters of an inch of rainfall. Most of the Sierra Nevada picked up between a tenth and two tenths of an inch of liquid precipitation with several SNOTEL stations in the Sierra Nevada picking up one to two inches of new snowfall. This system also produced a period of strong wind gusts along the Mojave Desert Slopes with several stations reporting gusts exceeding 45 mph.</p>				
<b>(CA-Z301) LOS BANOS-DOS PALOS, (CA-Z304) COALINGA - AVENAL, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z313) BUENA VISTA, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S), (CA-Z339) MOJAVE DESERT</b>				
	11/17/24 02:00 PST		0	Frost/Freeze
	11/17/24 08:00 PST		0	
<p>A cold and dry airmass pushed into central California on November 16. With clear skies and light winds prevailing the following night, temperatures dropped below the freezing mark along the west side of the San Joaquin Valley for a short time during the early morning of November 17. It was also the first significant freeze of the season for most of the Kern County Desert areas.</p>				
<b>(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)</b>				
	11/18/24 10:27 PST		0	High Wind (MAX 64 kt)
	11/18/24 17:30 PST		0	
<p>A moisture deficient trough moved through central California on November 18. This system did not have much precipitation with it as some stations from Fresno County northward picked up a tenth of an inch or less of liquid precipitation. However, the system did produce a period of increased winds as a result of a strong pressure gradient during the afternoon and evening of November 18 over mountains and deserts of Kern County. Several stations measured gusts exceeding 45 mph and a few low impact stations had gusts in excess of 60 mph.</p>				
<b>(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-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-Z315) SOUTHEAST SAN JOAQUIN VALLEY, (CA-Z316) SOUTH END SAN JOAQUIN VALLEY</b>				
	11/19/24 02:00 PST		0	Frost/Freeze
	11/19/24 08:00 PST		0	
<p>Following the passage of a trough through central California on November 19 which brought clouds to the area resulting in temperatures remaining above freezing throughout the San Joaquin Valley on November 18, clearing skies and diminishing winds in a prevailing dry airmass resulted in subfreezing temperatures across most of the San Joaquin Valley during the morning of November 19. The airmass moderated some by the following morning as a more moderate zonal flow pattern prevailed and temperatures remained above the freezing mark across the San Joaquin Valley.</p>				
<b>(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER</b>				
	11/22/24 16:00 PST		0	Heavy Snow
	11/23/24 16:00 PST		0	
<b>(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z338) MOJAVE DESERT SLOPE(S)</b>				
	11/22/24 23:32 PST		0	High Wind (MAX 60 kt)
	11/24/24 03:27 PST		0	

A large upper low pressure system situated off the Pacific Northwest coast pulled a deep moisture plume into central California during the evening of November 22. This moisture surge brought periods of moderate to locally heavy precipitation through the morning of

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November 23. Much of the higher Sierra Nevada and adjacent foothills picked up between 0.75 and 1.5 inches of liquid precipitation which much of the San Joaquin Valley from Fresno northward picked up between 0.5 and 0.75 inches of rainfall. Precipitation amounts were lower further southward with much of the San Joaquin Valley south of Fresno southward to Delano picked up between 0.1 and 0.5 inches of rainfall and the Sierra Nevada in Tulare County picked up between 0.25 and 0.5 inches of liquid precipitation. Kern County generally picked up less than a tenth of an inch or less of rainfall from this system although it did produce some increased wind gusts at downslope favored locations and a few stations reported gusts exceeding 55 mph.

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(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z307) FRESNO - CLOVIS, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY

11/23/24 22:10 PST	0	Dense Fog
11/24/24 08:30 PST	0	

Skies cleared out some in portions of the San Joaquin Valley during the evening of November 23 which allowed for some areas of dense fog to form in the valley between the late evening of November 23 and the morning of November 24 with a few locations reporting visibility reduced to below an eighth of a mile. This impacted travel along SR 99 for a few hours during the morning of November 24 between north Fresno and Chowchilla. The fog dissipated by late morning.

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(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP, (CA-Z330) SEQUOIA NP, (CA-Z331) SOUTH END OF THE UPPER SIERRA

11/25/24 19:00 PST	0	Heavy Snow
11/26/24 19:00 PST	0	

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KERN COUNTY --- 0.9 NNE MIRACLE HOT SPGS [35.59, -118.52], 1.0 NNE MIRACLE HOT SPGS [35.59, -118.52], 0.9 W BODFISH [35.60, -118.52], 0.9 WSW BODFISH [35.60, -118.51]

11/25/24 20:21 PST	0	Flood (due to Heavy Rain)
11/25/24 23:21 PST	0	Source: Law Enforcement

California Highway Patrol reported approximately 10 boulders on both lanes of SR 178 4SW Lake Isabella.

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TULARE COUNTY --- 4.5 E KAWEAH [36.48, -118.84], 4.5 E KAWEAH [36.48, -118.84], 4.6 E KAWEAH [36.48, -118.84], 4.5 E KAWEAH [36.48, -118.84]

11/25/24 21:05 PST	1K	Flood (due to Heavy Rain)
11/26/24 00:05 PST	0	Source: Law Enforcement

California Highway Patrol reported a tree down on eastbound SR 198 near Dineley Dr. 5NE Three Rivers.

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KERN COUNTY --- 2.4 ENE DEMOCRAT SPGS [35.54, -118.63], 2.5 E DEMOCRAT SPGS [35.54, -118.63], 2.9 ENE DEMOCRAT SPGS [35.54, -118.62], 2.8 ENE DEMOCRAT SPGS [35.54, -118.62]

11/25/24 22:20 PST	0	Flood (due to Heavy Rain)
11/26/24 01:20 PST	0	Source: Law Enforcement

California Highway Patrol reported several rocks on SR 178 11SW Lake Isabella.

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TULARE COUNTY --- 2.0 NE LONDON [36.49, -119.39], 1.9 NE LONDON [36.49, -119.40], 1.9 NE LONDON [36.49, -119.40], 1.9 NE LONDON [36.49, -119.39]

11/26/24 04:34 PST	0	Flood (due to Heavy Rain)
11/26/24 06:34 PST	0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on Rd. 80 near Ave. 384 4S Dinuba.

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TULARE COUNTY --- 0.3 SSW EAST TULARE VILLA [36.20, -119.28], 0.3 SSW EAST TULARE VILLA [36.20, -119.28], 0.3 SW EAST TULARE VILLA [36.20, -119.28], 0.3 SW EAST TULARE VILLA [36.20, -119.28]

11/26/24 05:23 PST	0	Flood (due to Heavy Rain)
11/26/24 07:23 PST	0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on the westbound lanes of Ave 224 near Munson Rd.

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TULARE COUNTY --- 0.9 SW OROSI [36.54, -119.29], 0.9 SW OROSI [36.54, -119.29], 0.9 SSW OROSI [36.54, -119.29], 0.8 SSW OROSI [36.54, -119.29]

11/26/24 06:03 PST	0	Flood (due to Heavy Rain)
11/26/24 08:03 PST	0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on Ave. 413 near SR 63 in Orosi.

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<b>FRESNO COUNTY --- 2.2 ENE TRIMMER [36.91, -119.24], 2.1 ENE TRIMMER [36.91, -119.24], 2.2 ENE TRIMMER [36.91, -119.24], 2.2 ENE TRIMMER [36.91, -119.24]</b>				
	11/26/24 07:10 PST		0	Flood (due to Heavy Rain)
	11/26/24 10:10 PST		0	Source: Law Enforcement

California Highway Patrol reported a rock slide blocking both lanes on Trimmer Springs Rd. at Big Creek Rd. near Pine Flat Reservoir.

<b>FRESNO COUNTY --- 0.7 SSE CARUTHERS [36.52, -119.83], 0.7 SSE CARUTHERS [36.52, -119.83], 0.8 SSE CARUTHERS [36.52, -119.83], 0.8 S CARUTHERS [36.52, -119.83]</b>				
	11/26/24 08:12 PST		0	Flood (due to Heavy Rain)
	11/26/24 10:12 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on West Ave. near Conejo Ave. in Caruthers.

<b>TULARE COUNTY --- 2.1 SSW TAGUS [36.24, -119.38], 2.1 NW TULARE [36.24, -119.38], 2.3 SSW TAGUS [36.24, -119.38], 2.2 SSW TAGUS [36.24, -119.38]</b>				
	11/26/24 08:25 PST		0	Flood (due to Heavy Rain)
	11/26/24 10:25 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on Cartmill Ave. near Enterprise St.

<b>KERN COUNTY --- 6.4 SW DEMOCRAT SPGS [35.47, -118.76], 6.6 SW DEMOCRAT SPGS [35.46, -118.75], 5.0 SW DEMOCRAT SPGS [35.47, -118.72], 4.2 SW DEMOCRAT SPGS [35.49, -118.73]</b>				
	11/26/24 12:03 PST		0	Debris Flow
	11/26/24 15:03 PST		0	Source: Law Enforcement

California Highway Patrol reported several rocks fallen on portions of SR 178 in Kern River Canyon.

<b>TULARE COUNTY --- 3.6 E KAWEAH [36.47, -118.86], 3.5 E KAWEAH [36.47, -118.86], 3.8 E KAWEAH [36.48, -118.85], 3.9 E KAWEAH [36.47, -118.85]</b>				
	11/26/24 17:42 PST		0	Flood (due to Heavy Rain)
	11/26/24 20:42 PST		0	Source: Law Enforcement

California Highway Patrol reported rocks in the eastbound lane of SR 198 on 3NE Three Rivers.

A large upper low pressure system which had remained nearly stationary off the Pacific Northwest coast for several days moved inland across the Pacific Northwest on November 26. This low pulled up a surge of deep moisture into central California between the evening of November 25 and the evening of November 26. This atmospheric river type system brought moderate to locally heavy precipitation to much of the area with most of the San Joaquin Valley picking up between 0.75 and 1.50 inches of rainfall. Most of the Sierra Foothills and the Kern River Valley picked up between 1 and 3 inches of rainfall while the higher elevations of the Sierra Nevada picked up between 2 and 4 inches of liquid precipitation with several SNOTELs above 7000 feet picking up an estimated 1 to 3 feet of new snow. The Tehachapi Mountains generally picked up between a quarter to a half inch of rainfall while rain shadowing limited precipitation in the Kern County Desert areas. Several reports of nuisance flooding were reported by law enforcement in Fresno, Tulare and Kern Counties.

<b>(CA-Z334) TEHACHAPI</b>				
	11/26/24 19:55 PST		0	Dense Fog
	11/27/24 06:15 PST		0	

Following the departure of the winter storm which brought a quarter to half an inch of rainfall to much of the Tehachapi Mountains, low level upslope resulted in fog reducing visibility below a quarter mile in Tehachapi and along portions of SR 58 through the Tehachapi Mountains between the evening of November 26 and the morning of November 27 when the fog lifted into a stratus deck.

<b>(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z307) FRESNO - CLOVIS, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD</b>				
	11/27/24 22:15 PST		0	Dense Fog
	11/28/24 10:15 PST		0	

Abundant low level moisture in the area as a result of widespread precipitation over the area on November 25 and 26 combined with clearing skies and light winds for areas of dense fog to form during the evening of November 27 and early morning of November 28. The fog impacted travel along SR 99 in much of the valley including through Fresno and Bakersfield. The fog lifted into a low cloud deck by late morning on November 28 with improving visibility.

<b>(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY</b>				
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/28/24 21:20 PST		0	Dense Fog
	11/29/24 10:25 PST		0	

With abundant low level moisture remaining in the area as a result of widespread precipitation over the area on November 25 and 26 and mainly clear skies and and light winds prevailing, areas of dense fog once again formed during the evening of November 28 in portions of the San Joaquin Valley. The fog lifted into a stratus deck across most of the valley by early morning and finally lifted in the Merced and Madera areas by late morning.

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(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFER, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD

11/30/24 02:55 PST	0	Dense Fog
11/30/24 10:05 PST	0	

High clouds streaming over the area as a result of an offshore upper low pressure system inhibited fog from forming in the San Joaquin Valley until well into the morning hours of November 30 although once the fog developed, visibility dropped below a quarter mile across much of the south San Joaquin Valley. The fog lifted into a low cloud deck by late morning as the offshore low provided for some mixing to take place.