

## Storm Data and Unusual Weather Phenomena - November 2023

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

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**(CA-Z334) TEHACHAPI**

	11/07/23 02:30 PST	0	Dense Fog
	11/07/23 07:00 PST	0	

Upslope flow resulted in low level moisture banking up along the north and west facing slopes of the Tehachapi Mountains during the morning of November 7. This produced fog in the Tehachapi area which impacted travel on State Route 58. The fog lifted and skies cleared out shortly after sunrise.

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**(CA-Z338) MOJAVE DESERT SLOPE(S)**

	11/07/23 19:50 PST	0	High Wind (MAX 58 kt)
	11/07/23 20:10 PST	0	

A weak frontal system moved through the area during the morning of November 6 bringing a short period of significant precipitation to Merced County and to the Sierra Nevada from Madera County northward. Precipitation amounts in these areas were generally between two and four tenths of an inch while further south amounts were generally a tenth of an inch or less with Kern County remaining free of precipitation. This system was followed by another frontal system which moved through the area during the morning of November 7 which brought a tenth to two tenths of an inch of precipitation to the Sierra Nevada and a tenth of an inch or less of rainfall to the valley and foothill areas as well as to much of Kern County. Snowfall with these systems were generally confined to areas above 8500 feet with 3 to 6 inches falling to the Yosemite area and 1 to 3 inches further south. In addition to the precipitation, gusty winds accompanied the second system and several locations in the Mojave Desert Slopes in Kern County recorded wind gusts exceeding 50 mph during the afternoon and evening. The system moved east of the area by the morning of November 8.

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**(CA-Z316) SOUTH END SAN JOAQUIN VALLEY, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES**

	11/15/23 06:10 PST	0	High Wind (MAX 60 kt)
	11/15/23 15:50 PST	0	

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**(CA-Z314) BAKERSFIELD**

	11/15/23 15:45 PST	1K	Strong Wind (MAX 39 kt)
	11/15/23 15:45 PST	0	

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**(CA-Z314) BAKERSFIELD**

	11/15/23 17:00 PST	0	Dust Storm
	11/15/23 17:00 PST	0	

A frontal system moved through central California on November 15. A large offshore upper low pulled up some moisture which accompanied the frontal system as it moved through the area and widespread precipitation fell although amounts were light with generally a tenth of an inch or less of rainfall in the San Joaquin Valley and West Side Hills, a tenth to a quarter inch of rainfall in the Sierra foothills and a quarter to half inch in the Sierra Nevada with the snow level close to 10000 feet. The main impacts from this system; however, was a period of gusty winds most noticeably in the Grapevine area where a few locations measured gusts above 55 mph during the late morning and afternoon and also in the south end of the San Joaquin Valley which had some areas of blowing dust.

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**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z311) HANFORD - CORCORAN - LEMOORE**

	11/17/23 02:05 PST	0	Dense Fog
	11/17/23 09:40 PST	0	

Clearing skies and light winds over the San Joaquin Valley during the morning of November 17 allowed for areas of dense fog to form by daybreak as some low level moisture remained as a result of the system which moved through the area two days before. This was the first widespread dense fog event in the area as visibility was reduced to an eighth of a mile or less at several locations, and several school districts either opened late or delayed bus service for the first time this season as a result of the fog. The fog dissipated by late morning as another incoming system provided for some mixing to take place.

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

	11/18/23 21:32 PST	0	High Wind (MAX 84 kt)
	11/19/23 10:20 PST	0	

An upper level low pressure system which had been situated off the California coast for several days moved inland through California on November 18 resulting in a period of precipitation and increased winds across our area between the morning of November 18 and the morning of November 19. Precipitation amounts varied greatly because some thunderstorms during the afternoon of the 18th which

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brought locally heavy rainfall to some locations but many stations across the San Joaquin Valley, West Side Hills and Tehachapi Mountains picked up between a tenth and a half on an inch of rain while much of the Sierra Nevada and adjacent foothills picked up between a quarter inch and an inch of liquid precipitation with the snow level remaining above 8000 feet. This system also produced some noticeably strong wind gusts along the Mojave Desert

Slopes and the Tehachapi area during the morning of November 19. Several stations measured gusts exceeding 50 mph and a few stations had gusts exceeding 70 mph. By the afternoon of the 19th, the precipitation had ended and the winds had diminished as the trough moved to the east of our area.

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**(CA-Z312) VISALIA - PORTERVILLE - REEDLEY**

	11/19/23 02:45 PST	0	0	Dense Fog
	11/19/23 04:15 PST	0	0	

Upslope winds during the morning of November 19 resulted in some locally dense fog in the southeastern portion of the San Joaquin Valley. This was most noticeable in the Porterville area where visibility remained below a quarter mile for a part of the early morning.

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**(CA-Z302) MERCED-MADERA-MENDOTA**

	11/22/23 06:05 PST	0	0	Dense Fog
	11/22/23 08:35 PST	0	0	

A large upper ridge was situated over California between November 20 and November 22. This ridge kept skies clear and winds light over the San Joaquin Valley during this period. An area of dense fog formed in the Merced area during the morning of the 22nd which disrupted travel along SR 99 for a few hours. The fog dissipated by late morning.

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**(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-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z339) MOJAVE DESERT**

	11/25/23 02:00 PST	0	0	Frost/Freeze
	11/28/23 08:00 PST	0	0	

A dry trough pushed through the area on November 24. This resulted in a cold and dry airmass settling in over the area. As a result, minimum temperatures ranged between 29 and 32 degrees F in rural locations in the San Joaquin Valley and between 22 and 27 degrees F in the Kern County Deserts each morning between November 25 and November 28.