

Storm Data and Unusual Weather Phenomena - October 2021

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-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-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-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z324) YOSEMITE VALLEY, (CA-Z325) SAN JOAQUIN RIVER CANYON, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP, (CA-Z329) GRANT GROVE AREA, (CA-Z330) SEQUOIA NP, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z332) KERN RIVER VALLEY, (CA-Z333) PIUTE - WALKER PASS (BASIN?), (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

10/01/21 00:00 PST	0	Drought
10/31/21 23:59 PST	0	

Nearly all of the central California Interior remained classified as being in an exceptional drought by the end of October, 2021 due to a long term precipitation deficit. As of October 31, 2021, the impacted area has received less than 50% of normal precipitation since July 1, 2020.

FRESNO COUNTY --- 1.3 ESE MELVIN [36.81, -119.65]

10/08/21 05:00 PST	0	Heavy Rain
10/08/21 06:58 PST	0	Source: Trained Spotter

A trained spotted reported heavy rainfall for almost two hours in north Fresno and Clovis with ponding of water reported on several roadways.

A Pacific cold frontal system pushed through the area during the morning of October 8 spreading widespread precipitation across the area. Several stations in the eastern portion of the San Joaquin Valley and the Sierra Nevada range measured between a tenth and a four tenths of an inch of rainfall with portions of Fresno and Madera Counties picking up locally heavy showers which produced higher precipitation amounts. Several high elevation SNOTELs picked up an estimated one to three inches of new snowfall. The precipitation ended by late afternoon as the storm moved east of the area.

(CA-Z304) COALINGA - AVENAL, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z332) KERN RIVER VALLEY, (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S)

10/11/21 08:20 PST	0	High Wind (MAX 89 kt)
10/11/21 22:26 PST	0	

A deep upper low pressure system dropped from the Pacific Northwest into the Great Basin during the morning of October 11. This resulted in a period of strong winds from the late morning hours until the evening as a very strong pressure gradient developed. Several stations reported wind gusts exceeding 58 mph with the strongest winds most noticeable on the Mojave Desert Slopes of the Tehachapi Mountains. A few low impact indicator sites reported gusts exceeding 80 mph. The winds diminished by the morning of October 12 as the low moved east of the Great Basin and pressure gradients relaxed.

(CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198

10/17/21 18:00 PST	0	Dust Storm
10/17/21 20:00 PST	0	

(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)

10/17/21 20:00 PST	0	High Wind (MAX 72 kt)
10/18/21 10:27 PST	0	

A strong cold front pushed through central California from the evening of October 17 through the early morning of October 18 as a low pressure system dropped southward through the Great Basin. While this system did bring some light precipitation to the Sierra Nevada with several stations measuring 1 to 3 tenths of an inch of liquid precipitation and 1 to 3 inches of new snowfall above 6000 feet, the main impact from this system was a period of gusty winds across the West Side Hills as well as across the Kern County Mountains. Several stations reported wind gusts exceeding 45 mph with a few low impact indicator sites measuring gusts exceeding 60 mph.

MARIPOSA COUNTY --- 3.1 ENE COULTERVILLE [37.74, -120.15]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/24/21 15:00 PST		0	Heavy Rain
	10/25/21 11:00 PST		0	Source: Public
Public report of 5.48 inches of rainfall in 18 hours at Greeley Hill.				
(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z318) MARIPOSA - MADERA LOWER SIERRA, (CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S)				
	10/24/21 23:20 PST		0	High Wind (MAX 61 kt)
	10/25/21 21:27 PST		0	
FRESNO COUNTY --- 0.3 NE BIG CREEK [37.20, -119.25], 0.3 NE BIG CREEK [37.20, -119.25], 0.3 NE BIG CREEK [37.20, -119.25], 0.3 NE BIG CREEK [37.20, -119.25]				
	10/25/21 05:58 PST		0	Debris Flow
	10/25/21 06:58 PST		0	Source: Law Enforcement
California Highway Patrol reported two large boulders in the roadway on Mountain Spruce Rd. in Big Creek.				
FRESNO COUNTY --- 0.7 NNE (FCH) CHANDLER AF [36.74, -119.82], 0.8 NE (FCH) CHANDLER AF [36.74, -119.81], 1.0 NE (FCH) CHANDLER AF [36.74, -119.81], 0.9 NNE (FCH) CHANDLER AF [36.74, -119.81]				
	10/25/21 06:03 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 09:03 PST		0	Source: Law Enforcement
California Highway Patrol reported some of the ramps at the SR 99 and SR 180 exchange in Fresno were completely flooded forcing a temporary closure of both highways.				
FRESNO COUNTY --- 2.4 SE (FCH) CHANDLER AF [36.71, -119.79], 2.5 SE (FCH) CHANDLER AF [36.71, -119.78], 2.3 NW CALWA [36.70, -119.78], 2.5 NW CALWA [36.70, -119.79]				
	10/25/21 06:13 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 09:13 PST		0	Source: Law Enforcement
California Highway Patrol reported several vehicles spun out on southbound SR 41 south of the SR 99 intersection due to flash flooding.				
FRESNO COUNTY --- 0.8 ENE FIG GARDEN VLG [36.82, -119.79], 0.8 ENE FIG GARDEN VLG [36.82, -119.79], 0.8 E FIG GARDEN VLG [36.82, -119.79], 0.8 E FIG GARDEN VLG [36.82, -119.79]				
	10/25/21 06:43 PST		0	Flood (due to Heavy Rain)
	10/25/21 08:43 PST		0	Source: Law Enforcement
California Highway Patrol reported standing water on the southbound SR 41 on ramp at the Bullard Ave exchange.				
FRESNO COUNTY --- 0.8 N (FCH) CHANDLER AF [36.74, -119.82], 0.9 NNE (FCH) CHANDLER AF [36.74, -119.82], 0.9 NNE (FCH) CHANDLER AF [36.74, -119.81], 0.7 NNE (FCH) CHANDLER AF [36.74, -119.81]				
	10/25/21 06:50 PST		0	Flood (due to Heavy Rain)
	10/25/21 08:50 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding on SR 99 at the SR 180 Junction.				
FRESNO COUNTY --- 1.1 E (FCH) CHANDLER AF [36.73, -119.80], 1.2 E (FCH) CHANDLER AF [36.73, -119.80], 1.5 E (FCH) CHANDLER AF [36.73, -119.79], 1.4 E (FCH) CHANDLER AF [36.73, -119.80]				
	10/25/21 07:00 PST		0	Flood (due to Heavy Rain)
	10/25/21 09:00 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding along SR 99 between the SR 180 and SR 41 exchanges.				
(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-Z329) GRANT GROVE AREA, (CA-Z330) SEQUOIA NP				
	10/25/21 07:00 PST		0	Heavy Snow
	10/25/21 19:00 PST		0	
FRESNO COUNTY --- 3.4 SSW INDIAN MISSION [36.93, -119.52], 3.6 NNE ACADEMY [36.93, -119.50], 2.2 NNE ACADEMY [36.91, -119.51], 2.3 N ACADEMY [36.91, -119.53]				

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	10/25/21 07:05 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 10:05 PST		0	Source: Law Enforcement

California Highway Patrol reported flooded culverts on SR 168 between Tollhouse Rd. and Sample Rd. due to debris flow flooding.

MADERA COUNTY --- 1.4 SSW COARSEGOLD [37.25, -119.71], 1.4 S COARSEGOLD [37.25, -119.70], 0.9 S COARSEGOLD [37.26, -119.70], 0.9 SSW COARSEGOLD [37.26, -119.71]

	10/25/21 07:35 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 10:35 PST		0	Source: Law Enforcement

California Highway Patrol reported a mudslide along SR 41 just to the south of Coarsegold resulting in a brief closure of SR 41.

TULARE COUNTY --- 1.8 NNE LEMONCOVE [36.40, -119.00], 1.9 NNE LEMONCOVE [36.40, -119.00], 2.3 NE LEMONCOVE [36.41, -118.99], 2.4 NE LEMONCOVE [36.41, -118.99]

	10/25/21 08:26 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 11:26 PST		0	Source: Law Enforcement

California Highway Patrol reported a rockslide on SR 198 near Lake Kaweah. A large boulder was located on the eastbound lane of SR 198.

FRESNO COUNTY --- PIEDRA [36.82, -119.38], 0.4 W PIEDRA [36.82, -119.39], 0.3 WNW PIEDRA [36.82, -119.39], 0.1 N PIEDRA [36.82, -119.38]

	10/25/21 08:33 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 11:33 PST		0	Source: Law Enforcement

California Highway Patrol reported a rockslide with boulders in the roadway at the intersection of East Trimmer Springs Rd. and North Piedra Rd. north of Piedra.

TULARE COUNTY --- 1.5 NW DELFT COLONY [36.53, -119.47], 1.2 NNW DELFT COLONY [36.53, -119.46], 0.9 NW DELFT COLONY [36.53, -119.46], 1.3 WNW DELFT COLONY [36.53, -119.47]

	10/25/21 09:33 PST		0	Flood (due to Heavy Rain)
	10/25/21 11:33 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding near the intersection of Rd. 48 and Ave. 408 west of Dinuba.

MARIPOSA COUNTY --- 1.5 SSE ELLIOTT CORNER [37.45, -119.76], 1.5 SSE ELLIOTT CORNER [37.45, -119.76], 1.7 SSE ELLIOTT CORNER [37.45, -119.76], 1.6 SSE ELLIOTT CORNER [37.45, -119.76]

	10/25/21 09:44 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 12:44 PST		0	Source: Law Enforcement

California Highway Patrol reported a rockslide with boulders in the roadway of SR 49 southwest of Ponderosa Basin.

KERN COUNTY --- 0.7 SE OIL JCT [35.39, -119.04], 0.4 ESE OIL JCT [35.40, -119.04], 0.2 E OIL JCT [35.40, -119.05], 0.6 SSE OIL JCT [35.39, -119.05]

	10/25/21 09:47 PST		0	Flood (due to Heavy Rain)
	10/25/21 11:47 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on SR 99 just northwest of Bakersfield.

KERN COUNTY --- 0.9 SW KERN CITY [35.34, -119.03], 0.8 SSW KERN CITY [35.34, -119.03], 0.5 WSW KERN CITY [35.35, -119.03], 0.6 WSW KERN CITY [35.35, -119.03]

	10/25/21 09:50 PST		0	Flood (due to Heavy Rain)
	10/25/21 11:50 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding near the intersection of Baldwin Rd. and La France Dr. in Bakersfield. Vehicles were not able to drive through the intersection.

FRESNO COUNTY --- 1.1 E PINE RIDGE [37.07, -119.35], 1.1 E PINE RIDGE [37.07, -119.35], 1.2 E PINE RIDGE [37.07, -119.35], 1.2 E PINE RIDGE [37.07, -119.35]

	10/25/21 10:02 PST		0	Flash Flood (due to Heavy Rain / Burn Area)
	10/25/21 13:02 PST		0	Source: Law Enforcement

California Highway Patrol reported water runoff covering Tollhouse Rd. southwest of Shaver Lake.

KERN COUNTY --- 0.3 E BLACKWELLS CORNER [35.62, -119.87], 0.7 SSE BLACKWELLS CORNER [35.61, -119.86], 0.6 S BLACKWELLS CORNER [35.61, -119.87], 0.2 W BLACKWELLS CORNER [35.62, -119.87]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/25/21 10:10 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 13:10 PST		0	Source: Law Enforcement

California Highway Patrol reported a rockslide with large boulders on the roadway near the intersection of SR 46 and SR 33 at Blackwell's Corner.

KERN COUNTY --- 5.7 SW DEMOCRAT SPGS [35.48, -118.75], 5.9 SW DEMOCRAT SPGS [35.48, -118.75], 5.9 SW DEMOCRAT SPGS [35.48, -118.75], 5.6 SW DEMOCRAT SPGS [35.48, -118.75]

	10/25/21 11:09 PST		0	Flash Flood (due to Heavy Rain)
	10/25/21 14:09 PST		0	Source: Law Enforcement

California Highway Patrol reported a rockslide covering the westbound lanes of SR 178 near mile marker 18 in Kern Canyon.

KERN COUNTY --- 5.7 E TUPMAN [35.30, -119.25], 5.8 E TUPMAN [35.29, -119.25], 5.6 WSW STEVENS [35.29, -119.24], 5.5 WSW STEVENS [35.30, -119.24]

	10/25/21 12:12 PST		0	Flood (due to Heavy Rain)
	10/25/21 14:12 PST		0	Source: Law Enforcement

California Highway Patrol reported roadway flooding on Panama Lane 5 miles east of the SR 43 intersection.

FRESNO COUNTY --- 1.4 SSE FOWLER [36.61, -119.66], 1.4 S FOWLER [36.61, -119.67], 1.7 SSE FOWLER [36.61, -119.66], 1.7 SSE FOWLER [36.61, -119.66]

	10/25/21 13:54 PST		0	Flood (due to Heavy Rain)
	10/25/21 15:54 PST		0	Source: Law Enforcement

California Highway Patrol reported 100 feet of all three northbound lanes of SR 99 north of Manning Ave. were flooded.

KINGS COUNTY --- 4.2 S VANGUARD [36.19, -119.94]

	10/25/21 15:36 PST		0	Funnel Cloud
	10/25/21 15:46 PST		0	Source: Broadcast Media

A TV station filmed a funnel cloud southwest of Lemoore.

A large upper level low pressure system in the Gulf of Alaska picked up an abundant amount of tropical moisture from the remains of Typhoon Namtheun on October 23. This large upper low then dropped southeast to off the Pacific Northwest coast on during the morning of October 24 then underwent rapid intensification during the afternoon of October 24 resulting in a strong surge of deep tropical moisture being pushed into central California by the evening of October 24. As the upper low tracked inland across the Pacific northwest on October 25, a cold front dropped southward through California bringing moderate to heavy precipitation to areas north of Kern County for 10-12 hours. Much of Yosemite National Park and Mariposa County picked up between 3 to 5 inches of liquid precipitation while 2 to 4 inches of liquid precipitation fell in the Sierra Nevada in Madera and Fresno Counties. Further south, 1 to 2 inches of liquid precipitation fell in the mountains of Tulare County while the Kern County Mountains generally picked up between half and inch and an inch of rainfall. Most of the San Joaquin Valley and West Side Hills also picked up between a half inch and an inch of rain while most of Merced County picked up between an inch and an inch and a half. The Kern County Deserts also picked up between a quarter and a half inch of rainfall. With most of the moisture from this system being of tropical origin, the snow level was above 9000 feet until the afternoon of October 25. The snow level lowered to 6000 to 7000 feet before the precipitation ended during the evening of October 25. Several SNOTEL stations measured between 9 and 15 inches of snow in 12 hours while a few stations above 9000 feet measured between 15 and 30 inches. There were also several stations which measured peak wind gusts between 58 and 70 mph ahead of the storm during the morning of October 25 or behind the cold front during the evening of October 25. Scattered thunderstorms developed over the San Joaquin Valley behind the cold front during the afternoon of October 25. One supercell produced a funnel cloud over southwestern Kings County then moved southeast into Kern County bringing heavy rainfall to the Lost Hills and Wasco areas. The precipitation tapered off by late evening and winds diminished by the morning of October 26 as the storm moved to the east of the area.

(CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY

	10/26/21 05:30 PST		0	Dense Fog
	10/26/21 09:50 PST		0	

In the wake of the storm that brought moderate to heavy precipitation and strong wind gusts to the area on October 25, skies cleared out across the San Joaquin Valley during the early morning of October 26. With abundant low level moisture present over the area along with inversion conditions, an area of dense fog formed around sunrise over south central Fresno County, eastern Kings County and western Tulare County, prompting the issuance of the first Dense Fog Advisory of the season. The fog reduced visibility to an eighth of a mile in a few spots before dissipating by late morning.

(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z311) HANFORD - CORCORAN - LEMOORE

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/30/21 04:15 PST		0	Dense Fog
	10/30/21 10:45 PST		0	

High pressure centered over the Great Basin resulted in a mainly clear day with above normal temperatures across the area on October 29. Clear skies, light winds and inversion conditions allowed for areas of dense fog to form in the San Joaquin Valley overnight reducing visibility to as low as an eighth of a mile. The fog remained persistent in a few spots until late morning. A low pressure system moving across the Pacific Northwest on October 30 provided for enough mixing and cloud cover the following night to inhibit fog formation.