

## Storm Data and Unusual Weather Phenomena - November 2018

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

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#### (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT

	11/10/18 02:00 PST	0		Frost/Freeze
	11/10/18 09:00 PST	0		

A dry cold front pushed southward through California during the evening over November 9. A cold airmass pushed into the area behind the front and as winds diminished overnight across the Kern County Deserts temperatures plummeted into the 20's at most locations. This resulted in the first hard freeze of the season in the Kern County Deserts.

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#### (CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS

	11/21/18 16:00 PST	0		Heavy Snow
	11/22/18 08:00 PST	0		

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#### MADERA COUNTY --- 0.5 S THE PINES [37.31, -119.57], 0.5 S THE PINES [37.31, -119.57], 0.5 S THE PINES [37.31, -119.57], 0.5 S THE PINES [37.31, -119.57]

	11/21/18 19:17 PST	0		Flood (due to Heavy Rain)
	11/21/18 20:47 PST	0		Source: Law Enforcement

California Highway Patrol reported four trees fell onto Road 222 near Road 426 south of Bass Lake, likely due to rainfall.

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#### MADERA COUNTY --- 2.0 WSW THE FORKS [37.30, -119.61], 2.0 WSW THE FORKS [37.30, -119.61], 2.0 WSW THE FORKS [37.30, -119.61], 2.0 WSW THE FORKS [37.30, -119.61]

	11/21/18 19:32 PST	0		Flood (due to Heavy Rain)
	11/21/18 21:02 PST	0		Source: Public

Public report of a tree blocking the entire roadway of Mountain Lakes Road just north of the intersection of Road 423. The fallen tree likely occurred due to rainfall.

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#### FRESNO COUNTY --- 1.7 NE (FCH) CHANDLER AF [36.75, -119.80], 1.7 NE (FCH) CHANDLER AF [36.75, -119.80], 1.8 SW HAMMOND [36.75, -119.80], 1.7 NE (FCH) CHANDLER AF [36.75, -119.80]

	11/21/18 20:19 PST	0		Flood (due to Heavy Rain)
	11/21/18 21:49 PST	0		Source: Law Enforcement

California Highway Patrol reported the left lane flooded on State Route 180 near the Fulton Street off-ramp.

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#### MARIPOSA COUNTY --- 4.2 S USONA [37.39, -119.83], 4.1 S USONA [37.39, -119.83], 4.0 S USONA [37.39, -119.83], 4.0 S USONA [37.39, -119.83]

	11/21/18 21:51 PST	0		Flood (due to Heavy Rain)
	11/21/18 23:21 PST	0		Source: Law Enforcement

California Highway Patrol reported a fallen tree blocking both lanes on Usona Road near Indian Peak Road. The fallen tree was likely due to rainfall.

After a significant dry period of 45 straight dry days across most of the central California interior. A low pressure system pushed inland over northern California on November 21 and brought a period of generally light to moderate precipitation to the area from the afternoon of November 21 through the morning of November 22 as an associated cold front pushed southward through central California. The precipitation fell mainly in the form of snow above 7000 feet resulting in this system being the first significant winter storm of the season for the higher elevations of the Southern Sierra Nevada where 8 to 16 inches of snow fell. Much of the San Joaquin Valley picked up between a quarter to three quarters of an inch of an inch of rainfall after going totally dry for a month and a half. There were several reports of nuisance flooding although damage was minimal.

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#### (CA-Z095) KERN CTY MTNS, (CA-Z099) SE KERN CTY DESERT

	11/23/18 17:17 PST	0		High Wind (MAX 53 kt)
	11/24/18 04:27 PST	0		

The storm that brought a soaking rain to much of the area and the first significant snowfall of the season to the higher elevations of the Southern Sierra Nevada was followed by a second storm which reached central California on November 23 and brought widespread rainfall to the area which continued through the early morning of November 24. Although this storm did not produce as much precipitation as the previous system, it still produced another half inch to locally two inches of additional rainfall to the Southern Sierra Nevada and adjacent foothills, and up to foot of new snow fell above 8000 feet. Much of the San Joaquin Valley was rain shadowed, but several stations measures between one and two tenths of an inch of additional rainfall. Meanwhile, strong winds impacted the Kern County Mountains from the afternoon of November 23 through the early morning of November 24. Several stations reported wind gusts

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exceeding 40 mph while a few low impact indicator sites measured gusts around 60 mph. By the afternoon of November 24, decreased winds and drying took place across the area as the storm moved to the east of the area with high pressure building in behind it.

**(CA-Z090) E CENTRAL S.J. VALLEY, (CA-Z091) SW S.J. VALLEY, (CA-Z092) SE S.J. VALLEY**

11/25/18 04:30 PST	0	Dense Fog
11/25/18 10:05 PST	0	

Skies cleared out over much of the San Joaquin Valley between during the evening of November 24 and the early morning hours of November 25 as high pressure build inland into central California. With recent rainfall and diminished winds fog formed toward daybreak over the San Joaquin Valley except for the far south end where upslope clouds persisted. Areas of dense fog with visibility between an eighth and a quarter mile were prevalent for a few hours in the morning across much of the valley between 700 am and 930 am. By 1000 am most of the fog had lifted into stratus and later burned off.

**(CA-Z090) E CENTRAL S.J. VALLEY, (CA-Z091) SW S.J. VALLEY, (CA-Z092) SE S.J. VALLEY**

11/26/18 01:20 PST	0	Dense Fog
11/26/18 11:15 PST	0	

As high pressure strengthened over the area on November 25, stronger radiational cooling took place on the morning for November 26 allowing for widespread dense fog to form in the San Joaquin Valley and prompted the first Dense Fog Advisory issuance of the season as travel on State Route 99 was adversely impacted by the fog. Fog reducing visibility from 1/16 to 1/8 of a mile was widespread by sunrise. The fog slowly burned off during the late morning hours and had completely dissipated by noon.

**(CA-Z089) W CENTRAL S.J. VALLEY, (CA-Z090) E CENTRAL S.J. VALLEY, (CA-Z091) SW S.J. VALLEY, (CA-Z092) SE S.J. VALLEY**

11/27/18 06:30 PST	0	Dense Fog
11/27/18 09:00 PST	0	

Although not as prevalent as the day before, patches of dense fog formed in the San Joaquin Valley toward daybreak. The fog impacted travel along State Route 99 between Turlock and Atwater and along State Route 198 between Visalia and Hanford. The fog also prompted several school districts in western Fresno County to delay morning bus service.

**(CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS**

11/28/18 04:00 PST	0	Heavy Snow
11/30/18 04:00 PST	0	

**MARIPOSA COUNTY --- 1.0 WSW EL PORTAL [37.67, -119.80], 1.3 SW EL PORTAL [37.67, -119.80], 0.7 SSW EL PORTAL [37.67, -119.79], 0.6 SW EL PORTAL [37.67, -119.79]**

11/28/18 08:00 PST	0	Debris Flow
11/28/18 12:00 PST	0	Source: Law Enforcement

California Highway Patrol reported water and rocks covering State Route 140 near El Portal in the Ferguson Fire burn area.

**(CA-Z089) W CENTRAL S.J. VALLEY, (CA-Z091) SW S.J. VALLEY, (CA-Z095) KERN CTY MTNS, (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT**

11/29/18 03:20 PST	0	High Wind (MAX 63 kt)
11/30/18 02:27 PST	0	

**TULARE COUNTY --- 0.9 NW GOSHEN [36.36, -119.43], 0.7 WNW GOSHEN [36.35, -119.43], 0.4 NW GOSHEN [36.35, -119.43], 0.7 NW GOSHEN [36.36, -119.43]**

11/29/18 13:22 PST	0	Flood (due to Heavy Rain)
11/29/18 14:22 PST	0	Source: Law Enforcement

California highway Patrol reported roadway flooding on southbound State Route 99 just north of Goshen.

**MADERA COUNTY --- 3.3 E TRIGO [36.92, -119.89]**

11/29/18 17:00 PST	10K	Thunderstorm Wind (EG 43 kt)
11/29/18 17:00 PST	0	Source: Public

Public report of a large pepper tree falling onto a guest house in a backyard in Madera Ranchos.

A deep upper trough approached the California coast on November 28 spreading moisture into central California. A subtropical jet brought a deep moisture fetch into central California by the morning of November 28 producing moderate to heavy precipitation over the area which continued into the afternoon. The rainfall resulted in debris flows and mudslides near recently burned areas in the

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southern Sierra foothills including over the Ferguson Burn area which resulted in the closure of State Highway 140 near El Portal. The trough moved inland on November 29 producing another round of moderate to heavy precipitation with several stations in the Southern Sierra Nevada and adjacent foothills measuring between 2 and 5 inches of rainfall while much of the San Joaquin Valley and Kern County Mountains received half an inch to an inch and a half of rain during the two day period. Snow levels lowered to 5500 feet on November 29, and several reports of a foot and a half to 3 feet of new snowfall estimated by SNOTELs. Strong winds also impacted the area on November 29 and several stations measured wind gusts exceeding 55 mph while a few low impact indicator sites measured gusts around 70 mph. As a colder, unstable post-frontal airmass pushed into the area during the afternoon of November 29, isolated thunderstorms moved through the San Joaquin Valley producing brief downpours, small hail and gusty winds. The precipitation tapered off by the early morning of November 30 as the trough moved out of the area.