

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------

CALIFORNIA, South Central

(CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA, (CA-Z198) INDIAN WELLS VALLEY

	10/09/19 06:26 PST	0		High Wind (MAX 72 kt)
	10/10/19 21:30 PST	0		

October 2019 began on the cool side with below normal temperatures during the first five days of the month. The 6th through 8th were much warmer as temperatures rose to above seasonal normals with high pressure prevailing over the area. A dry cold front then pushed southward through central California on October 9 which brought much cooler temperatures to the area as daytime high plunged by 10 to 15 degrees at most locations as well as with a period of strong winds across the Kern County Mountains and Deserts. While most locations had peak wind gusts between 35 and 50 mph a few low impact indicator sites measured stronger gusts. Behind the front on October 10, a dry airmass settled into the area lowering relative humidity into the single digits as offshore easterly winds developed. This resulted in elevated fire danger across the mountains in Kern County from the late morning of October 10 to the afternoon of October 11.

(CA-Z195) LAKE ISABELLA, (CA-Z196) TEHACHAPI AREA, (CA-Z198) INDIAN WELLS VALLEY, (CA-Z199) KERN COUNTY DESERT

	10/17/19 16:27 PST	0		High Wind (MAX 63 kt)
	10/17/19 22:00 PST	0		

A slow warming trend took place across the area between October 12 and October 16 with high pressure in place along the west coast. The high broke down on October 17 as a dry cold front pushed through the area. As the colder air pushed into the area during the afternoon and evening of October 17, strong winds impacted the mountains and deserts of Kern County with several stations reporting gusts exceeding 55 mph with a few stations topping out around 70 mph. The winds diminished during the morning of October 18 as the frontal system moved out of the area.

(CA-Z198) INDIAN WELLS VALLEY

	10/27/19 16:26 PST	0		High Wind (MAX 56 kt)
	10/27/19 16:26 PST	0		

A cool airmass settled into the area between October 18 and October 20 with temperatures slightly below normal at most locations. A warming trend began on October 21 as high pressure moved inland. The high strengthened over the region through October 25 and kept a very warm and dry airmass over the area through October 26. A cold upper low pressure system dropped southward through the Great Basin on October 27 which brought some light rain and snow to the higher elevations of the Southern Sierra Nevada as well as much cooler temperatures and a period of increased winds with locally strong gusts. Several stations in the San Joaquin Valley and central Sierra reported winds gusts between 35 and 45 mph. A few locations in the Kern County Mountains and Deserts measured gusts exceeding 50 mph.

(CA-Z196) TEHACHAPI AREA, (CA-Z197) FORT TEJON

	10/30/19 03:30 PST	0		High Wind (MAX 62 kt)
	10/30/19 10:00 PST	0		

Cooler temperatures prevailed across the area between October 27 and the end of the month. Another strong cold front plunged southward through the area on October 30 which brought a re-enforcing shot of cooler air along with a period of strong easterly wind gusts across the Kern County Mountains during the morning of October 30 as a strong offshore pressure gradient developed. Several stations reported gusts exceeding 60 mph.

(CA-Z198) INDIAN WELLS VALLEY, (CA-Z199) KERN COUNTY DESERT

	10/31/19 02:00 PST	0		Frost/Freeze
	10/31/19 08:00 PST	0		

A cold and dry airmass settled into the area on October 30. As winds diminished during the morning of October 31 under clear skies, strong radiational cooling took place and minimum temperatures plunged into the lower to mid 30's in the San Joaquin Valley and into the lower to mid 20's across the Kern County Deserts resulting in the first hard freeze of the season for the Kern County Deserts.