Storm Data and Unusual Weather Phenomena - December 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ALIFORNIA, South	Central			
CA-Z095) KERN CTY MTN	IS, (CA-Z098) INDIAN WELLS VLY			
	12/01/07 14:32 PST		1K	Strong Wind (MAX 43 kt)
	12/02/07 20:00 PST		0	
•	nd Deserts. Winds peaked between 45 to g winds included Blue Max, Jawbone Ca	•	na Lake.	-
CA-Z089) W CENTRAL S.	J. VALLEY, (CA-Z090) E CENTRAL S.J. V	ALLEY, (CA-ZO	91) SW S.J. VA	LLEY, (CA-Z092) SE S.J. VALLEY
A-Z089) W CENTRAL S.	J. VALLEY, (CA-Z090) E CENTRAL S.J. V 12/01/07 02:00 PST	ALLEY, (CA-ZO	91) SW S.J. VA 0	LLEY, (CA-Z092) SE S.J. VALLEY Frost/Freeze
High pressure moved into temperatures. Frost and fr	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across m	ne first few day uch of the San	0 0.11M rs of December, Joaquin Valley	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and
High pressure moved into emperatures. Frost and fr 2nd. The coldest temperat Collins Corner, Hanford, L	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th	ne first few day uch of the San , when reading and Lemoore N	0 0.11M rs of December, Joaquin Valley rs bottomed out laval Air Statior	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as
ligh pressure moved into emperatures. Frost and fr nd. The coldest temperat Collins Corner, Hanford, L	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mu ures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/06/07 14:56 PST	ne first few day uch of the San , when reading and Lemoore N	0 0.11M rs of December, Joaquin Valley rs bottomed out laval Air Statior	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as
High pressure moved into emperatures. Frost and fr 2nd. The coldest temperat Collins Corner, Hanford, L	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Z098)	ne first few day uch of the San , when reading and Lemoore N	0 0.11M s of December, Joaquin Valley Is bottomed out laval Air Station	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n.
High pressure moved into emperatures. Frost and fr 2nd. The coldest temperat Collins Corner, Hanford, L CA-Z095) KERN CTY MTN	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mu ures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/06/07 14:56 PST	ne first few day uch of the San , when reading and Lemoore N	0 0.11M rs of December, Joaquin Valley Is bottomed out laval Air Station CTY DESERT 3K	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n.
ligh pressure moved into emperatures. Frost and fr and. The coldest temperat Collins Corner, Hanford, L CA-Z095) KERN CTY MTN	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/06/07 14:56 PST 12/07/07 16:32 PST	ne first few day uch of the San , when reading and Lemoore N	0 0.11M rs of December, Joaquin Valley Is bottomed out laval Air Station CTY DESERT 3K	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n.
ligh pressure moved into emperatures. Frost and fr 2nd. The coldest temperat Collins Corner, Hanford, L CA-Z095) KERN CTY MTN	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/06/07 14:56 PST 12/07/07 16:32 PST S, (CA-Z097) TULARE CTY MTNS	ne first few day uch of the San , when reading and Lemoore N	0 0.11M s of December, Joaquin Valley Is bottomed out laval Air Station CTY DESERT 3K 0	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n. Strong Wind (MAX 49 kt)
ligh pressure moved into emperatures. Frost and fr ind. The coldest temperat Collins Corner, Hanford, L CA-Z095) KERN CTY MTN CA-Z096) S SIERRA MTN	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mu ures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Zu 12/06/07 14:56 PST 12/07/07 16:32 PST S, (CA-Z097) TULARE CTY MTNS 12/06/07 16:00 PST 12/07/07 22:00 PST	ne first few day uch of the San , when reading and Lemoore N	0 0.11M s of December, Joaquin Valley Is bottomed out laval Air Station CTY DESERT 3K 0	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n. Strong Wind (MAX 49 kt)
High pressure moved into temperatures. Frost and fr 2nd. The coldest temperat Collins Corner, Hanford, L CA-Z095) KERN CTY MTN	12/01/07 02:00 PST 12/02/07 09:00 PST central and southern California during th eeze conditions were reported across mu ures occurred on the morning of the 2nd os Banos, Orosi, Allensworth, Alpaugh, a IS, (CA-Z098) INDIAN WELLS VLY, (CA-Zu 12/06/07 14:56 PST 12/07/07 16:32 PST S, (CA-Z097) TULARE CTY MTNS 12/06/07 16:00 PST 12/07/07 22:00 PST	ne first few day uch of the San , when reading and Lemoore N	0 0.11M s of December, Joaquin Valley Is bottomed out laval Air Station CTY DESERT 3K 0	Frost/Freeze resulting in a period of abnormally cold durings the mornings of the 1st and t in the mid 20s at locations such as n. Strong Wind (MAX 49 kt)

region dropped temperatures back to near normal, and precipitation from the storm finally reached the area during the afternoon of the 6th. There was abundant moisture with this storm, with the heaviest San Joaquin Valley rain during the late afternoon and early evening hours. Precipitation continued through December 7th, and very cold air behind the cold front dropped snow levels down into the higher Sierra foothills. Fresno received a total of 0.31 inch from the storm; in two days, the rainfall at Fresno Yosemite International Airport equaled that received during the months of September, October and November combined.

This storm caused strong winds to develop on the 6th and 7th at times across the Kern County Mountains and Desert. The highest winds measured by the mesonet weather network included 59 mph at Jawbone, 52 mph at Inyokern, 64 mph at Indian Wells Canyon, 70 mph at Laurel Mountain, and 47 mph at Mojave.

Locally heavy snowfalls were recorded by spotters and SNOTEL stations in the Southern Sierra Nevada. Chilkoot Meadow received an estimated 32 inches of new snow, with several stations above 7000 feet reporting between 1 and 2 feet of fresh snow.

As the storm dropped through California, a closed upper-level low formed. As this low moved south, an upper-level disturbance rotating around it triggered a few moderate showers over the west side of the San Joaquin Valley on December 8th, mainly from Coalinga south. By late afternoon, rain and snow was spreading into the Frazier Park area of the Tehachapi Mountains, and snow levels were falling, reaching around 3500 feet by Sunday morning. Up to 5 inches of snow fell on Frazier Park during the night of December 8th-9th, and accumulating snow closed the Grapevine (at 4300 feet, 1000 feet lower than Frazier Park, which includes the Interstate 5 passageway between northern and southern interior California) for a period of time.

(CA-Z089) W CENTRAL S.J. VALLEY, (CA-Z090) E CENTRAL S.J.	VALLEY, (CA-Z091) SW S.J. VALL	EY, (CA-Z092) SE S.J. VALLEY
12/09/07 02:53 PST	0	Frost/Freeze
12/16/07 08:00 PST	20K	

A large storm system moved east of the region on the 9th. As high pressure moved back into the region, cold air remained pooled over the central and southern San Joaquin Valley, trapped by the surrounding mountains. Valley temperatures during the morning of the 9th bottomed out mostly in the upper 20s to mid 30s, although a few sites cooled to the mid 20s for a couple of hours. This set the stage for a series of nightly frost events, with eight consecutive nights of near- to sub-freezing temperatures for the central and southern San Joaquin Valley.

Storm Data and Unusual Weather Phenomena - December 2007

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(CA-Z096) S SIERRA MTNS, (CA-Z09	97) TULARE CTY MTNS			
	12/18/07 06:00 PST		0	Winter Storm
	12/19/07 04:11 PST		0	
(CA-Z095) KERN CTY MTNS				
	12/18/07 15:00 PST		0	Winter Weather
	12/19/07 04:11 PST		0	
FRESNO COUNTY 0.9 NW HAMM	OND [36.78, -119.79], 1.1 NNW	HAMMOND [36	.78, -119.79], 1.0	WNW FRESNO [36.79, -119.78], 0.4 WSW FRESNO
[36.78, -119.78]				
	12/18/07 23:40 PST		25K	Flood (due to Heavy Rain)
	12/19/07 01:10 PST		0	Source: Law Enforcement
A home located near the intersection of	f Hampton and Buckingham was	flooded, due a	combination of pe	ersistent heavy rain and poor water drainage.
FRESNO COUNTY 1.5 SSW FIG G	ARDEN [36.81, -119.83]			
	12/19/07 00:00 PST		5K	Heavy Rain
	12/19/07 09:00 PST		0	Source: NWS Employee
An employee of the NWS measured 1.	44 inches of storm total rainfall ir	n the New Fig G	arden section.	
	ND [36.74, -119.78], 1.3 N PINEI	DALE [36.85, -1	19.80], 1.5 WNW	7 FIG GARDEN [36.84, -119.85], 0.7 WNW (FCH)
FRESNO COUNTY 1.7 S HAMMOI CHANDLER AF [36.73, -119.83]		DALE [36.85, -1	_	
	ND [36.74, -119.78], 1.3 N PINEI 12/19/07 00:30 PST 12/19/07 02:00 PST	DALE [36.85, -1	19.80], 1.5 WNW 0.15M 0	FIG GARDEN [36.84, -119.85], 0.7 WNW (FCH) Flood (due to Heavy Rain) Source: Law Enforcement
CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combinatio	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina c , -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST	east of CA High re reported floor ge partially caus	0.15M 0 hway 99. Several ded in the southw sed by power outs	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station.
CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combination FRESNO COUNTY CLOVIS [36.82	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina c, -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST 12/19/07 02:45 PST	east of CA High re reported floor ge partially caus 66.84, -119.78]	0.15M 0 hway 99. Several ded in the southw sed by power outs 0 0	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station.
CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combination FRESNO COUNTY CLOVIS [36.82	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina c, -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST 12/19/07 02:45 PST	east of CA High re reported floor ge partially caus 66.84, -119.78]	0.15M 0 hway 99. Several ded in the southw sed by power outs 0 0	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station.
CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combination FRESNO COUNTY CLOVIS [36.82 A trained weather spotter reported stor	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina a , -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST 12/19/07 02:45 PST rm total rainfall of 0.75 inches in	east of CA High re reported floor ge partially caus 66.84, -119.78]	0.15M 0 hway 99. Several ded in the southw sed by power outs 0 0	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station.
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CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combination FRESNO COUNTY CLOVIS [36.82 A trained weather spotter reported stor FRESNO COUNTY 0.9 NE CLOVIS A trained weather spotter reported a st	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina 7, -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST 12/19/07 02:45 PST rm total rainfall of 0.75 inches in 6 [36.83, -119.69] 12/19/07 06:58 PST 12/19/07 09:00 PST corm total since the 18th of 2 inch	east of CA High ere reported floor ge partially caus 66.84, -119.78] only 90 minutes	0.15M 0 way 99. Several ded in the southw sed by power outs 0 0	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station. Heavy Rain Source: Trained Spotter Heavy Rain
CHANDLER AF [36.73, -119.83] Local law enforcement reported street during this time frame as well. Media re this flooding was due to the combination FRESNO COUNTY CLOVIS [36.82 A trained weather spotter reported stor	12/19/07 00:30 PST 12/19/07 02:00 PST flooding along Olive Avenue just eports indicated some homes we on of heavy rain, and poor draina 7, -119.70], 1.3 NE PINEDALE [3 12/19/07 01:11 PST 12/19/07 02:45 PST rm total rainfall of 0.75 inches in 6 [36.83, -119.69] 12/19/07 06:58 PST 12/19/07 09:00 PST corm total since the 18th of 2 inch	east of CA High ere reported floor ge partially caus 66.84, -119.78] only 90 minutes	0.15M 0 way 99. Several ded in the southw sed by power outs 0 0	Flood (due to Heavy Rain) Source: Law Enforcement other reports of flooded city streets were received rest section of the Fig Garden Village area. Some of ages at an important pumping station. Heavy Rain Source: Trained Spotter Heavy Rain
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This second storm brought over a half-inch of rain to parts of the San Joaquin Valley floor. Flooding was reported in the Fresno metropolitan area, mainly due to the combination of locally heavy rains and poor drainage areas within the urban and suburban land.

Very cold air accompanied the storm, settling into Yosemite Valley and resulting in over 4 inches of new snow to the Yosemite Valley floor at an elevation of 4000 feet. In the high country, between 2 and 3 feet of new snow fell, spreading as far south as the Tulare County mountains, where Lodgepole measured 28 inches of new snow. Further south, as much as 6 inches of snow fell near the crest of the Tehachapi Mountains, at Mount Pinos.

The third storm reached interior central California during the night of December 19th. This storm brought up to a foot of snow to the

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Valley. Gusts as strong as	ern Sierra Nevada north of Kings Canyon 64 mph were recorded in the Piutes (at t mph in the Tehachapi Mountains and the	he south end o	of the Sierra Nev	•
(CA-Z089) W CENTRAL S.	J. VALLEY, (CA-Z090) E CENTRAL S.J. V	ALLEY, (CA-ZO	091) SW S.J. VA	LLEY, (CA-Z092) SE S.J. VALLEY
	12/22/07 00:00 PST		0	Frost/Freeze
	12/22/07 10:00 PST		0.14M	
	Joaquin Valley yet again on December 22 J. VALLEY, (CA-Z090) E CENTRAL S.J. VA			LLEY, (CA-Z092) SE S.J. VALLEY
. ,				
	12/22/07 11:00 PST		0	Dense Fog
Behind the series of cold I	12/22/07 11:00 PST 12/26/07 11:00 PST Pacific storms that rolled through Califor	nia earlier in th	0	
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the	12/26/07 11:00 PST Pacific storms that rolled through Califor on the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta	table airmass ne San Joaquir able airmass c	0 ne month, high j in the region, a n Valley into the onditions prom	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the killed and two adults were	12/26/07 11:00 PST Pacific storms that rolled through Califor on the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta ly zero in small areas. 24th, a deadly traffic accident occurred, i	table airmass le San Joaquii able airmass c nvolving a rec	0 in the region, an n Valley into the onditions prom reational vehicl	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the killed and two adults were	12/26/07 11:00 PST Pacific storms that rolled through Califor on the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta ly zero in small areas. 24th, a deadly traffic accident occurred, i injured during this traffic accident.	table airmass le San Joaquii able airmass c nvolving a rec	0 in the region, an n Valley into the onditions prom reational vehicl	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the killed and two adults were	12/26/07 11:00 PST Pacific storms that rolled through Califor en the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta ly zero in small areas. 24th, a deadly traffic accident occurred, i injured during this traffic accident. S, (CA-Z098) INDIAN WELLS VLY, (CA-Z0	table airmass le San Joaquii able airmass c nvolving a rec	0 ne month, high j in the region, an n Valley into the onditions prom reational vehicl	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the e and a tractor-trailor. One child was
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the killed and two adults were	12/26/07 11:00 PST Pacific storms that rolled through Califor on the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta ly zero in small areas. 24th, a deadly traffic accident occurred, i injured during this traffic accident. S , (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/26/07 10:14 PST 12/26/07 22:00 PST	table airmass le San Joaquii able airmass c nvolving a rec	0 ne month, high j in the region, an n Valley into the onditions prom reational vehicl CTY DESERT 52K	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the e and a tractor-trailor. One child was
Valley of California betwee early hours of December 2 nearly every morning until visibility would fall to near During the evening of the killed and two adults were (CA-Z095) KERN CTY MTN	12/26/07 11:00 PST Pacific storms that rolled through Califor on the 22nd and 26th. As a result of this s 2nd, and lingered over the east side of th the 26th of the month. The persistent sta ly zero in small areas. 24th, a deadly traffic accident occurred, i injured during this traffic accident. S , (CA-Z098) INDIAN WELLS VLY, (CA-Z0 12/26/07 10:14 PST 12/26/07 22:00 PST	table airmass le San Joaquii able airmass c nvolving a rec	0 ne month, high j in the region, an n Valley into the onditions prom reational vehicl CTY DESERT 52K	pressure slowly built into the Central reas of dense fog developed during the e afternoon. This pattern repeated itself oted areas of very dense fog where the e and a tractor-trailor. One child was

A weak area of low pressure moved through central California during the evening of December 25th. The main impacts were to bring a few showers to the Southern Sierra Nevada and Tehachapi Mountains (including the foothills). Behind the weak low pressure, gusty winds developed over the mountains and deserts, with numerous gusts to 50 mph, and a peak wind gust of 75 mph measured at the Mojave Air/Spaceport.

The strong winds around 75 mph in the desert caused a dust storm to occur in the Lancaster and Mojave areas on the 26th. Law enforcement shut down portions of the Antelope Valley Freeway north of Lancaster, as well as Highway 58 through much of eastern Kern County in the desert. Strong winds also caused a tractor-trailer to overturn along California Highway 14 at California City Blvd.

(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				
12/27/07 00:00 PST	0	Frost/Freeze		
12/27/07 09:00 PST	20K			

Cold temperatures brought frost to the San Joaquin valley on the morning of the 27th. Cold temperatures in the mid 20s occurred at several valley locations such as Allensworth, Lemoore, Hanford, Porterville, and Visalia.