Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
CALIFORNIA, South Central					
CA-Z095) KERN CTY MTNS					
	02/02/11 04:38 PST		0	High Wind (MAX 62 kt)	
	02/02/11 10:35 PST		0		
CA-Z089) W CENTRAL S.J. VALLEY, (C	A-Z090) E CENTRAL S.J. VALLEY, (CA-Z091) SW S.J	VALLEY, (CA-Z09	2) SE S.J. VALLEY	
	02/03/11 02:00 PST		0	Frost/Freeze	
	02/03/11 09:00 PST		0		
rebruary began dry and relatively cool of dense fog formed throughout the Sar st. Skies over the San Joaquin Valley wellevations of the southern Sierra Nevadullowed cooler and drier air to filter into central California from the Great Basin. On the 4th through the 7th, the offshore the Siever silling throughout the region. Seeserts on the 6th and 7th. A dry upper-	n Joaquin Valley during the evening vere mostly clear, except for strator a. High pressure remained off the c This kept skies mostly clear throug high pressure built onshore. Temp Temperatures reached the upper 60 level short-wave trough moved through the contract of t	of January 31st, sumulus clouds be coast through the shout the central Ceratures warmed is to mid 70s in though California or	but had dissipated anked against the Brd, and the circul california interior. to above normal v e San Joaquin Val I February 6th. Thi	by mid-morning on the foothills and lower ation around the high alues with mostly clear ley and the Kern County s short-wave brought	
gusty winds to the west side of the San					
(CA-Z089) W CENTRAL S.J. VALLEY, (C		CA-Z091) SW S.J.	· •	·	
	02/09/11 03:00 PST 02/10/11 09:00 PST		0	Frost/Freeze	
ower 60s in the warmest locations, such passed, the west side of the San Joaqui gusts around 45 to 50 mph. Low clouds there much of the day. The strong northwest to north winds alcover the east side of the Valley to set up	n Valley became quite windy during banked against the foothills along ong the west side of the San Joaqui	the daytime on the west side of the wast side of the valley combined	he 8th, and some l ne Southern Sierra d with a weaker so	ocations had wind Nevada and remained utheast to south flow v wrapped around this	
<u> </u>		y. As a result, the	se clouds moved	southward from the	
eddy, and were caught in the northwest foothills into parts of the San Joaquin V From February 9th through the 11th, a riveinforcing push of cold air caused mor Valley. The ridge moved onto the West Cridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on	alley, including Fresno and Hanford didge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upperatures rose to around 10 to did their warmest temperatures for the	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe juite a few location noving into the Pa e normal; San Joa hs of 76 and 75 re	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge	
foothills into parts of the San Joaquin V From February 9th through the 11th, a ri reinforcing push of cold air caused mor Valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache	alley, including Fresno and Hanford dige of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upply, temperatures rose to around 10 to dight their warmest temperatures for the 13th; as a result, temperatures 77, -119.54]	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe luite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 12	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h.	
oothills into parts of the San Joaquin V From February 9th through the 11th, a ri einforcing push of cold air caused mor /alley. The ridge moved onto the West 0 idge over the central California interior, eached as high as the nid-70s. Bakersfield and Fresno reache continued to slowly move to the east on	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upperatures rose to around 10 to did their warmest temperatures for the the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe juite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 120	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud	
From February 9th through the 11th, a riverinforcing push of cold air caused mor valley. The ridge moved onto the West Gridge over the central California interior, eached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on	alley, including Fresno and Hanford dige of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upply, temperatures rose to around 10 to dight their warmest temperatures for the 13th; as a result, temperatures 77, -119.54]	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe luite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 12	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h.	
From February 9th through the 11th, a riverinforcing push of cold air caused more valley. The ridge moved onto the West Cridge over the central California interior reached as high as the mid-70s. Bakersfield and Fresno reaches continued to slowly move to the east on CERN COUNTY 12.3 WNW POND [35.	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upply, temperatures rose to around 10 to did their warmest temperatures for the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe juite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 120	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud	
foothills into parts of the San Joaquin V From February 9th through the 11th, a ri- reinforcing push of cold air caused mor Valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on KERN COUNTY 12.3 WNW POND [35.	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to an Coast on the 12th, pushed by an upply, temperatures rose to around 10 to did their warmest temperatures for the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe juite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 120	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud	
foothills into parts of the San Joaquin V From February 9th through the 11th, a ri reinforcing push of cold air caused mor Valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to an Coast on the 12th, pushed by an upply, temperatures rose to around 10 to did their warmest temperatures for the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe juite a few location noving into the Par e normal; San Joan hs of 76 and 75 re ler than on the 120	rly flow over the area. The ns across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud	
foothills into parts of the San Joaquin V From February 9th through the 11th, a ri reinforcing push of cold air caused mor Valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on KERN COUNTY 12.3 WNW POND [35.	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upply, temperatures rose to around 10 to did their warmest temperatures for the the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST d. A-Z092) SE S.J. VALLEY	y. As a result, the I. ne coast, keeping ound freezing in c per-level trough n 15 degrees above e month, with hig	a cool, dry northe quite a few location noving into the Pare e normal; San Joan hs of 76 and 75 re ler than on the 120 0	rly flow over the area. The is across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud Source: Broadcast Media	
From February 9th through the 11th, a riverinforcing push of cold air caused mor valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on CERN COUNTY 12.3 WNW POND [35.	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upperatures rose to around 10 to define the the 13th; as a result, temperatures for the 1the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST d. A-Z092) SE S.J. VALLEY 02/17/11 11:50 PST 02/18/11 14:00 PST	y. As a result, the	a cool, dry northe juite a few location noving into the Pare e normal; San Joan hs of 76 and 75 re ler than on the 120 0 0	rly flow over the area. The is across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud Source: Broadcast Media	
foothills into parts of the San Joaquin V From February 9th through the 11th, a ri reinforcing push of cold air caused mor Valley. The ridge moved onto the West 0 ridge over the central California interior, reached as high as the mid-70s. Bakersfield and Fresno reache continued to slowly move to the east on KERN COUNTY 12.3 WNW POND [35.	alley, including Fresno and Hanford idge of high pressure was just off the ning low temperatures to cool to are Coast on the 12th, pushed by an upperatures rose to around 10 to define the the 13th; as a result, temperatures for the 1the 13th; as a result, temperatures 77, -119.54] 02/16/11 15:39 PST 02/16/11 15:39 PST d. A-Z092) SE S.J. VALLEY 02/17/11 11:50 PST 02/18/11 14:00 PST	y. As a result, the	a cool, dry northe juite a few location noving into the Pare e normal; San Joan hs of 76 and 75 re ler than on the 120 0 0	rly flow over the area. The is across the San Joaquin cific Northwest. With the quin Valley temperatures spectively. The ridge h. Funnel Cloud Source: Broadcast Media	

02/19/11 22:00 PST

Page 1 of 3 Printed on: 04/30/2011

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CA-Z092) SE S.J. VALLEY, (CA-Z09	95) KERN CTY MTNS			
	02/18/11 16:00 PST		0	High Wind (MAX 51 kt)
	02/18/11 20:00 PST		0	
RESNO COUNTY 5.6 SW HELM	[36.48, -120.18], 6.6 W WESTSIDE [36.41	I, -120.25], 0.5 S V	/ESTSIDE [36.39, -	-120.13], 4.0 W BURREL [36.47,
120.05]	00/40/44 40:00 FOT		014	Flood (does to House Bala)
	02/18/11 18:00 PST 02/18/11 20:00 PST		2K 0	Flood (due to Heavy Rain) Source: Law Enforcement
				Source. Law Emorcement
The California Highway Patrol reporte	ed flooding on Stanislaus Avenue at Mour	nt Whitney Avenue		
	N [36.22, -120.12], 4.5 SSW HURON [36.1	15, -120.14], 6.4 S	WESTHAVEN [36.	14, -120.01], 1.4 E WESTHAVEN [36.23,
119.97]	02/18/11 19:50 PST		2K	Flood (due to Heavy Rain)
	02/18/11 19:50 PST		0	Source: Law Enforcement
			ŭ	2.2.55. 25 25.556.10
The California Highway Patrol reporte	ed flooding on Gale Avenue at Lassen Ave	enue.		
	SIDE [36.44, -120.20], 6.4 WSW CALFAX	[36.32, -120.21], 4	I.0 SW SHILLING [36.36, -119.95], 1.1 SSE KERMAN
BLAND ARPT [36.56, -120.02]	02/18/11 20:45 PST		1K	Flood (due to Heavy Rain)
	02/18/11 22:45 PST		0	Flood (due to Heavy Rain) Source: Law Enforcement
				Source: Law Emoleciment
he California Highway Patrol reporte	ed flooding on Mount Whitney Avenue at t	the California Aque	educt.	
CA-Z093) S SIERRA FOOTHILLS				
	02/19/11 00:00 PST		0	Winter Weather
	02/19/11 07:00 PST		0	
The first cold front moved into the of the first cold front moved into the cemperatures. There were gusty wire he San Joaquin Valley and parts of following day. Strong winds developed across the he next day. Bakersfield had gusts side of the San Joaquin Valley and central Sierra Nevada along the colectoral California during the morning the morning the colectoral California during the ca	17th would be a very cold system with scentral California interior on the 14th, and associated with the front with some f the Kern County deserts. This cold from e region ahead of the second storm, begins to 38 mph during the morning of the 16 in the Kern County deserts. During the right of front, and extended as far south as Yong hours, with a cold, unstable airmass righours, with a cold, unstable airmass righours, with a cold, unstable airmass righours.	nd bringing little p locations reachin nt set the stage for inning on the eve th, and gusts of 4 morning of the 16 psemite National F moving into the S	recipitation, but noing advisory levels are a stronger storm ning of February 1 0-50 mph were repth, thunderstorms Park. The cold fron an Joaquin Valley	oticeably cooler along the west side of a to arrive the late in the 5th and continuing into corted both over the west developed over the at rapidly moved through behind it. There was some
southwestern Fresno and northern these thunderstorms, with hail mea Significant rain and snow finally ret	this allowed for some solar heating. As a Kings counties, moving east into northy suring up to a half-inch in diameter. turned by the 16th, with storms impactin ior on the 18th, bringing heavy rain and s	western Tulare Co	ounty. There were s	several hail reports from th. The strongest storm
levels fell to around 2000 feet, well i Joaquin Valley and Grapevine areas 86 mph, with a sustained wind spee	into the Southern Sierra Nevada foothills s; for instance, a gust of 47 mph occurre ed of 64 mph, occurred on Grapevine Pe d gusts exceeding 70 mph at the Califor	s. Windy conditioned at Bakersfield I ak during that eve	ns occurred in the Meadows Field Air ening. This wind b	southern end of the San port on the 18th. A gust of lew down to
Joaquin Valley. These high winds e upper-level low associated with this northward over the western San Jo	even briefly hampered travel on Interstate s storm remained off the central Californ aquin Valley. The persistent rains cause y 19th. Later that day, thunderstorms de	e 5 over the Grap nia Coast. The circ ed some street flo	evine and through culation around the oding between Co	Tejon Pass. The e low spun bands of rain alinga and Fresno during
storms drifted over the Temblors in diameter on Lemoore.	v snow fell over the high country of the	ey. One thunders	torm dropped hail	up to a quarter inch in

up to 6 inches of snow.

(CA-Z095) KERN CTY MTNS, (CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS

02/25/11 04:30 PST

02/26/11 10:00 PST

Page 2 of 3 Printed on: 04/30/2011

Winter Storm

0

0

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(CA-Z097) TULARE CTY MTNS				
	02/26/11 00:00 PST		55K	Avalanche
	02/26/11 10:00 PST		0	
KERN COUNTY 3.6 SE LAKEVIEV	V [35.06, -119.08], 5.9 SW LAKEVIEW [35	.03, -119.19], 4.4 \	V LAKEVIEW [3	35.10, -119.20], 2.3 ENE LAKEVIEW
[35.11, -119.08]				
	02/26/11 02:14 PST		2.50K	Flood (due to Heavy Rain)
	02/26/11 04:14 PST		0	Source: Law Enforcement
The highway patrol reported flooding	on Highway 166 near Old River Road.			
KERN COUNTY 1.5 SSW MAGUN	DEN [35.35, -118.91], 1.8 NW LAMONT [3	5.29, -118.94], 1.4	ENE LAMONT	[35.27, -118.90], 2.7 SSE EDISON [35.31,
-110.00]	02/26/11 02:43 PST		5K	Flood (due to Heavy Rain)
	02/26/11 05:43 PST		0	Source: Law Enforcement
The highway patrol reported flooding	02/26/11 05:43 PST on northbound State Road 184 near Herm	nosa Road.	0	Source: Law Enforcement

(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

02/26/11 21:00 PST 0 Frost/Freeze

02/28/11 08:00 PST 0.44M

Weak ridging returned to the area by the 20th, with dry, but relatively cool, conditions throughout the central California interior during the next few days. However, by February 24th, the next storm was approaching the California coast and weakening the ridge. Precipitation associated with this storm reached the region late on the 25th, with rain continuing into the 26th. Heavy rain caused some flooding in the south end iof the San Joaquin Valley, with road flooding reported as far north as the Lamont area. This was a cold storm system, bringing measurable snowfall to the foothills along the Southern Sierra Nevada and the mountains along the west side of the San Joaquin Valley. A half inch of snow fell at Granite Station in the foothills of the Kern County Sierra Nevada, at an elevation of 2600 feet. The higher elevations of the Southern Sierra Nevada received up to 3 feet with this storm. During the daytime of the 26th, trace amounts of snow were even observed in some areas of the San Joaquin Valley, including Delano, Taft, Coalinga, Arvin, and some locations near Rakersfield

The end of the month remained cooler than average, with low temperatures falling to freezing or below due to the residual cold air behind the previous system. On the 27th, some locations, mainly north of Kern County, had minimum temperatures as low as the mid to upper 20s. Lows the next morning were a couple of degrees warmer, but were 32 degrees or colder in several locations. In summary, February began dry and cool, followed by periods of mild temperatures throughout the central California interior. Until the middle of the month, there was no rain reported in Fresno and Bakersfield, and significant rain and snow did not occur throughout the region until the latter half of the month. Temperatures were cooler than average during this part of the month due to repeated influxes of cold air. Frosty to freezing conditions occurred at times throughout the central and southern San Joaquin Valley, especially during the last two days of the month.

Page 3 of 3 Printed on: 04/30/2011