Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
CALIFORNIA, South Centra	al				
CA-Z089) W CENTRAL S.J. VALL	EY, (CA-Z090) E CENTRAL S.J. VALLEY,	(CA-Z091) SW S.J.	VALLEY, (CA-Z09	92) SE S.J. VALLEY	
	03/06/12 06:33 PST		85K	Strong Wind (MAX 46 kt)	
	03/06/12 19:00 PST		0		
CA-Z091) SW S.J. VALLEY					
	03/06/12 10:14 PST		0	Dust Storm	
	03/06/12 10:14 PST		0		
CA-Z095) KERN CTY MTNS, (CA-	Z099) SE KERN CTY DESERT				
,	03/06/12 14:33 PST		0	High Wind (MAX 51 kt)	
	03/06/12 22:00 PST		0	3	
as not unexpected, as climatolo	ened over the central California interior, p	e 8th, and the stor	m at the end of Fe	bruary did bring some	
	nd southern San Joaquin Valley. Over the with temperatures well above normal.	Southern Sierra N	evada, a weak off	shore flow continued the	
ittle rain as a low in the eastern P Joaquin Valley floor in Merced Co eported by the California Highwa nterstate 5 all the way to the Los	n brought an unseasonably cold airmass to Pacific sheared much of the moisture away bunty during the morning of March 6th, and ay Patrol on Interstate 5 near Buttonwillow Angeles County line. Trees were blown certs during the day, and Meadows Field, in	y from the trough. Id to around 50 mp v at 10:14 AM, and down in parts of th	Winds gusted to th in the Diablo Ra blowing dust was e Valley. Winds g	around 40 mph on the San ange. A dust storm was reported south along usted to 55-60 mph in the	
· · · · · · · · · · · · · · · · · · ·	e storm was cold and dry. By the afternoon Nalley were down around 20 degrees fro Osided and clouds cleared.		-	-	
CA-Z093) S SIERRA FOOTHILLS,	, (CA-Z094) TULARE CTY FOOTHILLS				
	03/16/12 22:00 PST		0	Winter Weather	
	03/17/12 18:30 PST		0		
CA-Z095) KERN CTY MTNS, (CA-	Z096) S SIERRA MTNS, (CA-Z097) TULAR	E CTY MTNS			
	03/16/12 22:00 PST		0	Winter Storm	
	03/17/12 20:57 PST		0		
RESNO COUNTY 0.9 NW GLO	PRIETTA [36,86, -119.68]				
	03/17/12 01:30 PST		1M	Thunderstorm Wind (EG 50 kt)	
	03/17/12 01:30 PST		0	Source: NWS Storm Survey	
	ted wind damage on the north side of Clovis al large evergreen trees were downed on ho			erstorm produced straight line wind	
	VIEW [35.04, -119.14], 5.9 S LAKEVIEW [3	5.02, -119.11], 3.2	SSW METTLER [3	5.03, -119.00], 4.2 WNW METTLER	
35.10, -119.04]	004740 05 00 507				
	03/17/12 05:30 PST		401/	Flood (due to Lloov (B-1-)	
	03/17/12 06:30 PST		12K 0	Flood (due to Heavy Rain) Source: Law Enforcement	

The highway patrol reported flooding on CA Highway 166 at Old River Road.

Page 1 of 4 Printed on: 04/03/2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MARIPOSA COUNTY 2.1 SE DA	RRAH [37.50, -119.80]			
	03/17/12 07:15 PST		0	Heavy Rain
	03/17/12 08:15 PST		0	Source: COOP Observer
A Co op observer reported overnigh	nt rainfall total of 3.15 inches.			
FRESNO COUNTY 0.6 E KERMA -119.95]	AN [36.72, -120.06], 3.0 SE KERMAN [36.6	9, -120.03], 3.2 SS	E ROLINDA [36.69	, -119.94], 1.5 NE ROLINDA [36.74,
	03/17/12 08:30 PST		3K	Flood (due to Heavy Rain)
	03/17/12 09:30 PST		0	Source: Trained Spotter
A trained storm spotter reported floo	oding west of Fresno.			
FRESNO COUNTY KERMAN [36	5.72, -120.07], 0.9 S KERMAN [36.71, -120.	07], 1.7 E KERMA	N [36.72, -120.04],	1.3 NE KERMAN [36.73, -120.05]
	03/17/12 08:30 PST		5K	Flood (due to Heavy Rain)
	03/17/12 11:30 PST		0	Source: Trained Spotter
KERN COUNTY 1 1 W BAKERSI	FIELD [35.37, -119.02], 0.4 SSW BAKERSI	FIFI D FAST (35.3)	6 -118 981 0 6 NNI	F RAKERSFIELD FAST [35 38 -118 97]
1.0 NNW BAKERSFIELD EAST [35			o,	
•	03/17/12 09:39 PST		6K	Flood (due to Heavy Rain)
	03/17/12 10:39 PST		0	Source: Law Enforcement
California highway patrol reported fl	ooding on Michelle Avenue at Shawn Stree	et.		
(CA-Z093) S SIERRA FOOTHILLS				
	03/17/12 10:10 PST		8K	Landslide
	03/17/12 11:10 PST		0	
FRESNO COUNTY 4.1 WSW TR	ANQUILITY [36.63, -120.32]			
	03/17/12 14:30 PST		0	Tornado (EF0, L: 0.01 mi , W: 50 yd)
	03/17/12 14:30 PST		0	Source: Broadcast Media
Proadcastors captured a tornada W	SW of the town of Tranquility. No damage	or injuries were re-	norted	
Jioadeasters captured a torriduo W	Ovv of the town of franquility. NO damage	or injunes were re	porteu.	

High pressure ridging became the dominant weather feature during March 8th-10th and brought warm, dry conditions to the area; temperatures were at least several degrees above the seasonal average during much of this period.

The ridge somewhat weakened on March 11th through the 13th, as temperatures cooled down closer to seasonal averages. However, high pressure rebounded once again on March 14th and 15th, and temperatures returned to several degrees above average. This pattern basically remained dry and was similar to what occurred during much of the previous week in terms of temperatures.

On the 16th, an upper-level trough brought abundant moisture to the northern part of interior central California during the evening. By the 17th, the upper-level low was located along the central California coast and brought much convective activity to the area. Most of the rain fell during the morning hours on the 17th.

The "Saint Patrick's weekend" storm will be remembered for not only record-smashing rain, but also for a tornado that hit western Fresno County. The rain began during the evening of March 16th, and by daybreak the next morning the California Highway Patrol was reporting flooding in the south end of the San Joaquin Valley. As the cold front move through the Fresno-Clovis area around 2:30 AM, a burst of strong winds—later estimated at 55-60 mph—toppled trees and caused some structural damage.

Over two feet of snow had fallen at Tuolumne Meadows by 8:45 AM, and mud and debris flows were reported in the Southern Sierra Nevada foothills. Less than 45 minutes later, winds gusted to 72 mph at Indian Wells Canyon near the south end of the Sierra Nevada.

By midday, both Bakersfield and Fresno had surpassed their rainfall records for March 17th. Hail fell on parts of Kerman, Visalia and Tulare. Winds gusted to 55 mph at Sunflower Valley in northwestern Kern County, and to 40 mph at Buttonwillow.

At 3:30 PM, a tornado was photographed on the ground near Mountain View Road and State Route 33, west southwest of the town of Tranquility in western Fresno County. This tornado touched down in an open field, and fortunately caused no injuries or damage. This was the 85th tornado since 1950 for the seven counties of the central California interior, and the first since February 27, 2010, when a tornado touched down in southwestern Kern County.

The CHP reported a rock slide on Highway 140 at Highway 49 in Mariposa County at 11:10 AM on the 17th.

Page 2 of 4 Printed on: 04/03/2013

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

By the time the storm had ended on March 18th, nearly 2.78 inches of rain had fallen at the Madera Municipal Airport, while Fresno had 1.78 inch and Bakersfield had 0.96 inch of rain. In the higher elevations of the Southern Sierra Nevada, new snow totals were up to 43 inches.

Most of the cold air behind the upper-level low arrived by the 18th. More convection developed over the San Joaquin Valley and nearby foothills. Numerous reports of pea-sized hail with about one inch of ground cover were received throughout the valley and caused some damage to crops, especially those with blossoms. High temperatures in the central and southern San Joaquin Valley on March 18th were mostly in the 50s, well below the normals of md to upper 60s.

Eight inches of snow fell at Camp Nelson, with the heavy snow knocking down trees and causing power outages. In addition, snow levels fell below 2,000 feet in the Sierra Nevada foothills, especially in heavier showers. On the evening of the 18th, the storm system began to exit the region.

The 19th was a transitional day while an upper level ridge moved toward the central coast and kept interior central California underneath a cool north-northwest flow aloft.

By the 20th, high pressure began to strengthen and allowed temperatures to recover; they rose to a few degrees above seasonal averages by the 21st. This pattern continued for the next couple of days until another low pressure system arrived on the 24th.

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

03/25/12 06:00 PST 0 Winter Storm

03/26/12 00:00 PST 0

By the 20th, high pressure began to strengthen and allowed temperatures to recover; they rose to a few degrees above seasonal averages by the 21st. This pattern continued for the next couple of days until another low pressure system arrived on the 24th.

An upper-level low moved over interior central California on the 24th and 25th, bringing rain and mountain snow to much of the region during that weekend. Snow levels were much higher with this system than the one that moved through the area during the previous weekend; snow fell mainly above the pass levels in Kern County and remained above 5000 feet in most areas throughout the southern Sierra Nevada. Nearly a foot of new snow fell on the Southern Sierra Nevada, and rainfall amounts in the central and southern San Joaquin Valley were up to a quarter inch.

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

03/31/12 13:00 PST 0 Winter Storm

03/31/12 23:59 PST 0

The next upper level low arrived to the region on the night of March 27th-28th after a brief dry period between storm systems. This storm stayed mainly over northern California, and brought only light precipitation to the region. A stronger storm arrived on the last day of the month, bringing heavier precipitation to the region. Rainfall amounts for March 31st-April 1st were between a quarter and a half inch of rain for the central San Joaquin Valley, and between a tenth and a quarter of an inch for the south Valley. The exception was the southwest part of the San Joaquin Valley, which was rain-shadowed and received only a few hundredths of an inch of rain. In the Southern Sierra Nevada, snowfall amounts over the high country generally were between 5 and 9 inches, although a couple of sites in Tulare County had around a foot of new snow. Gusty southeast winds developed ahead of the cold front, with gusts of 35 to 45 mph in the central and southern San Joaquin Valley, and 58 to 62 mph in the Kern County deserts. A large tree branch fell on an SUV in southwest Bakersfield.

The above-normal rainfall for March (except at Merced) helped put a dent in the rainfall deficit for the 2011-2012 season. When March began, Bakersfield was at 45.5 percent of normal, and Fresno was at 47.0 percent. At the end of March, Bakersfield had improved to 58.2 percent of normal, and Fresno was at 61.9 percent of normal.

(See the table on the next page.)

THE 2011-2012 RAIN SEASON THROUGH MARCH 31ST /AMOUNTS IN INCHES/
SITE MAR NRML DEP PCT SEASON NORMAL DEP PCT 2012 MAR* NRML 3/31 3/31* NRML
MERCED AIRPORT 2.02 2.07 -0.05 97.6 5.33 10.84 -5.51 49.2
MERCED CITY 1.89 2.07 -0.18 91.3 5.66 11.48 -5.82 49.3
MADERA AIRPORT 3.23 1.80 1.43 179.4 6.28 10.40 -4.12 60.4
FRESNO 2.43 2.03 0.40 119.7 6.13 9.91 -3.78 61.9
HANFORD AIRPORT 1.72 1.63 0.09 105.5 4.00 8.74 -4.74 45.8
HANFORD CITY 1.75 1.65 0.10 106.1 4.32 7.83 -3.51 55.2
BAKERSFIELD 1.27 1.21 0.06 105.0 3.31 5.69 -2.38 58.2

Page 3 of 4 Printed on: 04/03/2013

^{*} NORMALS FOR BAKERSFIELD...FRESNO...HANFORD CITY AND MERCED CITY ARE

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

FOR 1981-2010.

NORMALS FOR HANFORD...MADERA AND MERCED AIRPORTS ARE FOR 2001-2010.

Page 4 of 4 Printed on: 04/03/2013