

## Storm Data and Unusual Weather Phenomena - December 2021

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

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(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z301) LOS BANOS-DOS PALOS, (CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z303) PLANADA-LEGRAND-SNELLING, (CA-Z304) COALINGA - AVENAL, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFTER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z313) BUENA VISTA, (CA-Z314) BAKERSFIELD, (CA-Z315) SOUTHEAST SAN JOAQUIN VALLEY, (CA-Z316) SOUTH END SAN JOAQUIN VALLEY, (CA-Z317) MARIPOSA - MADERA FOOTHILLS, (CA-Z318) MARIPOSA - MADERA LOWER SIERRA, (CA-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z320) FRESNO - TULARE LOWER SIERRA, (CA-Z321) SOUTH END SIERRA FOOTHILLS, (CA-Z322) SOUTH END OF THE LOWER SIERRA, (CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z324) YOSEMITE VALLEY, (CA-Z325) SAN JOAQUIN RIVER CANYON, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP, (CA-Z329) GRANT GROVE AREA, (CA-Z330) SEQUOIA NP, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z332) KERN RIVER VALLEY, (CA-Z333) PIUTE - WALKER PASS (BASIN?), (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S), (CA-Z339) MOJAVE DESERT

12/01/21 00:00 PST	0	Drought
12/31/21 23:59 PST	0	

Although rainfall was above normal for December, nearly all of the central California Interior was classified as being in a moderate to severe drought at the end of December, 2021 due to a long term precipitation deficit. As of December 31, 2021, most of the impacted area has received less than 60% of normal precipitation since July 1, 2020.

**(CA-Z302) MERCED-MADERA-MENDOTA**

12/02/21 07:00 PST	0	Dense Fog
12/02/21 08:10 PST	0	

Interaction between high pressure centered over the Great Basin and a low pressure center off the northern Baja coast produced an offshore easterly flow over central CA maintaining a dry airmass with unseasonably warm temperatures for early December. Mainly clear skies, light winds and inversion conditions allowed for fog to form towards daybreak on December 2 from Merced County northward. The fog in Merced County dissipated one to two hours after developing.

**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z311) HANFORD - CORCORAN - LEMOORE**

12/03/21 01:15 PST	0.40M	Dense Fog
12/03/21 11:25 PST	0	

Little change in the upper air pattern occurred from the previous day. Clear skies, light winds and inversion conditions in the San Joaquin Valley allowed for areas of dense fog to form in Merced, Madera and Fresno Counties in the central San Joaquin Valley during the early morning hours and the fog resulted in several multi-vehicle accidents including two which had fatalities. Traffic was paced during the morning commute on SR 99 north of Madera and several school districts had delayed openings. The fog lifted into a low cloud deck by late morning and dissipated during the afternoon.

**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z310) DELANO - WASCO - SHAFTER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD**

12/03/21 20:35 PST	0	Dense Fog
12/04/21 12:35 PST	0	

Although the high pressure center over the Great Basin began to retrograde westward on December 3, areas of dense fog formed during the evening in the San Joaquin Valley Merced and Madera Counties. The fog spread southward overnight and by daybreak much of the valley was covered by a large area of dense fog. The fog lifted into a low cloud deck across most of the valley by afternoon with some locations east of SR 99 and west of interstate 5 clearing out.

**(CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD**

12/04/21 18:50 PST	0	Dense Fog
12/05/21 05:25 PST	0	

While a low cloud deck inhibited fog formation across much of the San Joaquin Valley during the evening of December 4 and the morning of December 5, some dense fog formed in the south end of the valley. The fog lifted into a low cloud deck by late morning.

**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z307) FRESNO - CLOVIS, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY**

## Storm Data and Unusual Weather Phenomena - December 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/08/21 01:55 PST		0	Dense Fog
	12/08/21 10:53 PST		0	

A shortwave ridge over central California provided for a night of clear skies and light winds. With inversion conditions prevailing over the valley, areas of dense fog formed during the early morning hours of December 8 reducing visibility to as low as a few hundred feet along the center portion of the valley. The fog completely dissipated by late morning as an incoming trough mixed out the atmosphere.

**(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP**

12/09/21 01:00 PST	0	Winter Weather
12/09/21 19:00 PST	0	

**(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z338) MOJAVE DESERT SLOPE(S)**

12/09/21 04:17 PST	0	High Wind (MAX 63 kt)
12/09/21 16:26 PST	0	

An upper trough moved through central California on December 9 pushing a frontal boundary through the area. This resulted in widespread precipitation across the area with much of the San Joaquin Valley receiving between a quarter inch to a half inch or rainfall. The Sierra Nevada which was more orographically favored received a half inch to an inch of liquid precipitation and several SNOTELs from Kings Canyon Park northward picked up an estimated 5 to 10 inches of new snowfall as the precipitation was mainly in the form of snow above 7000 feet. Precipitation amounts were generally less in the mountains and deserts of Kern County. Up to a quarter inch of rain fell across the Kern County Mountains and up to a tenth of an inch of rain fell across the Kern County Deserts. Gusty winds also accompanied this system across the Kern County Mountains and Deserts as several locations measured gusts between 35 and 55 mph and a few low impact indicator sites had gusts exceeding 60 mph. The trough moved east of the area during the evening of December 9 resulting in decreasing winds and the precipitation ending.

**(CA-Z307) FRESNO - CLOVIS, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY**

12/10/21 04:40 PST	0	Dense Fog
12/10/21 08:00 PST	0	

Skies cleared out and winds diminished behind a departed trough during the morning of December 10. A cold northwest flow provided for enough mixing; however, to limit the extent of fog coverage in the San Joaquin Valley and dense fog was localized for just a few hours during the morning.

**(CA-Z301) LOS BANOS-DOS PALOS, (CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z303) PLANADA-LEGRAND-SNELLING, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z306) CARUTHERS - SAN JOAQUIN - SELMA, (CA-Z309) BUTTONWILLOW- LOST HILLS - I5, (CA-Z310) DELANO - WASCO - SHAFER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z339) MOJAVE DESERT**

12/11/21 00:00 PST	0	Frost/Freeze
12/12/21 09:00 PST	0	

A cold and dry airmass settled in over the area on December 10. With mainly clear skies and light winds prevailing during the following night, temperatures plunged below the freezing mark across much of the San Joaquin Valley resulting in the first freeze of the season. The Kern County Deserts experienced the first hard freeze of the season during the mornings of December 11 and December 12.

**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY**

12/11/21 03:10 PST	0	Dense Fog
12/11/21 10:15 PST	0	

Clear skies, light winds and a temperature inversion allowed for locally dense fog to form in portions of the San Joaquin Valley during the morning of December 11. The fog completely dissipated by late morning.

**MERCED COUNTY --- 3.4 NW GUSTINE ARPT [37.30, -121.02]**

12/13/21 04:00 PST	0	Heavy Rain
12/14/21 15:39 PST	0	Source: Trained Spotter

A trained spotter measured 2.25 inches of rainfall 2S Newman.

**(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z308) WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198, (CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES, (CA-Z338) MOJAVE DESERT SLOPE(S)**

12/13/21 06:30 PST	0	High Wind (MAX 71 kt)
12/14/21 06:30 PST	0	

## Storm Data and Unusual Weather Phenomena - December 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP, (CA-Z329) GRANT GROVE AREA, (CA-Z330) SEQUOIA NP, (CA-Z331) SOUTH END OF THE UPPER SIERRA</b>				
	12/13/21 10:00 PST		0	Heavy Snow
	12/14/21 22:00 PST		0	
<b>(CA-Z314) BAKERSFIELD, (CA-Z318) MARIPOSA - MADERA LOWER SIERRA</b>				
	12/13/21 21:39 PST		23K	Strong Wind (MAX 39 kt)
	12/13/21 22:01 PST		0	
<b>(CA-Z334) TEHACHAPI, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES</b>				
	12/14/21 05:00 PST		0	Winter Weather
	12/14/21 22:00 PST		0	
<b>FRESNO COUNTY --- 3.6 NE NAVELENCIA [36.72, -119.34], 3.1 WSW SQUAW VLY [36.73, -119.30], 3.3 SW SQUAW VLY [36.72, -119.30], 3.3 NE NAVELENCIA [36.71, -119.33]</b>				
	12/14/21 07:28 PST		0	Debris Flow
	12/14/21 10:28 PST		0	Source: Law Enforcement
California Highway Patrol reported a rockslide along SR 180 west of Squaw Valley.				
<b>FRESNO COUNTY --- 1.1 SW CLARKS CORNER [36.59, -119.39], 1.1 SW CLARKS CORNER [36.59, -119.40], 1.2 SW CLARKS CORNER [36.59, -119.40], 1.1 SW CLARKS CORNER [36.59, -119.39]</b>				
	12/14/21 08:23 PST		0	Flood (due to Heavy Rain)
	12/14/21 09:23 PST		0	Source: Law Enforcement
California Highway patrol reported roadway flooding at the intersection of East Dinuba Ave. and South Alta Ave. east of Reedley.				
<b>FRESNO COUNTY --- 0.5 SSW ROCK HAVEN [37.11, -119.32], 0.5 S ROCK HAVEN [37.11, -119.32], 0.3 E ROCK HAVEN [37.12, -119.31], 0.2 ENE ROCK HAVEN [37.12, -119.32]</b>				
	12/14/21 08:48 PST		0	Debris Flow
	12/14/21 11:48 PST		0	Source: Law Enforcement
California Highway Patrol reported a rockslide blocking the westbound lanes of SR 168 near Cressman Rd.				
<b>KERN COUNTY --- 1.1 WNW KERN CITY [35.36, -119.04], 1.3 WNW KERN CITY [35.36, -119.04], 1.2 W KERN CITY [35.35, -119.04], 1.1 WNW KERN CITY [35.35, -119.04]</b>				
	12/14/21 10:46 PST		0	Flood (due to Heavy Rain)
	12/14/21 11:46 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding on the southbound lanes of SR 99 near the SR 58 intersection.				
<b>TULARE COUNTY --- 0.6 N WOODLAKE [36.43, -119.10], 0.5 N WOODLAKE [36.43, -119.10], 0.6 N WOODLAKE [36.43, -119.10], 0.6 N WOODLAKE [36.43, -119.10]</b>				
	12/14/21 10:59 PST		0	Flood (due to Heavy Rain)
	12/14/21 11:59 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding near the intersection of north Valencia Blvd. and West Cajon Ave. in Woodlake.				
<b>KERN COUNTY --- 0.6 WSW OLD RIVER [35.27, -119.13], 0.6 WSW OLD RIVER [35.27, -119.13], 0.5 WSW OLD RIVER [35.27, -119.13], 0.4 WSW OLD RIVER [35.27, -119.13]</b>				
	12/14/21 12:29 PST		0	Flood (due to Heavy Rain)
	12/14/21 13:29 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding near the intersection Taft Highway and Buena Vista Rd. west of Bakersfield.				
<b>KERN COUNTY --- 2.3 W BEALVILLE [35.27, -118.67], 2.2 W BEALVILLE [35.27, -118.67], 1.6 W BEALVILLE [35.27, -118.66], 1.8 WSW BEALVILLE [35.26, -118.66]</b>				
	12/14/21 12:33 PST		0	Flood (due to Heavy Rain)
	12/14/21 13:33 PST		0	Source: Law Enforcement

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California Highway Patrol reported roadway flooding along SR 58 7WNW of Keene.

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**TULARE COUNTY --- 4.0 NNE PORTERVILLE [36.12, -118.99], 2.0 SSE STRATHMORE JCT [36.12, -119.00], 1.8 ENE ZANTE [36.11, -119.00], 2.3 ENE ZANTE [36.12, -118.99]**

12/14/21 13:14 PST	0	Debris Flow
12/14/21 16:14 PST	0	Source: Law Enforcement

California Highway Patrol reported mud, rock and dirt covering most of North Plano St. near Lynch Dr.

A strong low pressure system dropped southeast out of the Gulf of Alaska on December 12 and intensified off the Pacific Northwest coast on December 13 pulling up some deep moisture which was pushed into central California during the afternoon. The precipitation intensified during the evening of December 13 through the morning of December 14 as the low carved out a deep upper trough which pushed across California during the afternoon of December 14. This system produced 2 to 4 inches of liquid precipitation over the Sierra Nevada from Sequoia National Park northward and 1 to 3 inches of liquid precipitation south of Sequoia Park. The precipitation fell mainly in the form of snow above 5500 feet and several high elevation SNOTELs estimated 2 to 4 feet of new snowfall. The snow level lowered to as low as 1500 feet during the evening of December 14 as the cooler airmass behind the system pushed into central California. Much of the San Joaquin Valley picked up between 1 to 2 inches of rainfall while the Kern County Mountains picked up between 0.75 and 1.5 inches of liquid precipitation. The Kern County Desert areas only picked up between a quarter and a half inch of rain at most locations due to rain shadowing. The storm produced widespread minor nuisance flooding in the San Joaquin Valley and Sierra foothills with a few rock slides noticed. Several roads were closed as a precaution and chain restrictions were implemented on some roads in the Sierra Nevada. The storm also produced strong winds over the West Side Hills as well as in the Grapevine and Tehachapi areas in Kern County. Several stations in these areas measured wind gusts exceeding 50 mph with a few locations near the Grapevine measuring brief gusts exceeding 70 mph.

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**(CA-Z300) WEST SIDE MOUNTAINS NORTH OF HIGHWAY 198, (CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)**

12/16/21 01:50 PST	0	High Wind (MAX 64 kt)
12/16/21 16:27 PST	0	

A cold low pressure system dropped southeast out of the Gulf of Alaska on December 15 and into the Pacific Northwest on December 16 pushing a cold front through central California. Most of the precipitation with this system fell just ahead of the frontal boundary with much of the Sierra Nevada and adjacent foothills picking up between a quarter to a half inch of liquid precipitation with the precipitation falling as snow above 3500 feet. Several stations in the Sierra Nevada estimated between 2 and 4 inches of new snowfall. Most of the San Joaquin Valley picked up between 1 and 3 tenths of an inch of rainfall. The main impact from this system; however, was a period a brief strong wind gusts along the West Side Hills and in the mountains in Kern County. Several stations reported wind gusts exceeding 40 mph while a few low impact indicator sites measured gusts exceeding 60 mph.

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**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z305) WEST SIDE OF FRESNO AND KINGS COUNTIES, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD**

12/19/21 03:15 PST	0	Dense Fog
12/19/21 13:25 PST	0	

High pressure built into California on December 18. Mainly clear skies, light winds and inversion conditions resulted in areas of dense fog forming overnight in the San Joaquin Valley. The fog lifted into a low cloud deck by early afternoon and dissipated by late afternoon.

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**(CA-Z302) MERCED-MADERA-MENDOTA, (CA-Z307) FRESNO - CLOVIS, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD**

12/19/21 19:35 PST	0	Dense Fog
12/20/21 11:45 PST	0	

High pressure shifted east across California on December 19 and 20. As a result with areas of dense fog reformed in the San Joaquin Valley during the evening of December 19 as clear skies, light winds and inversion conditions prevailed. The fog lifted into a low cloud deck in most of the valley overnight, but persisted well into the morning in the south end of the valley before lifting into a low cloud deck.

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**(CA-Z310) DELANO - WASCO - SHAFTER, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z314) BAKERSFIELD**

12/21/21 22:05 PST	0	Dense Fog
12/22/21 03:10 PST	0	

Skies cleared out in the San Joaquin Valley during the afternoon of December 21 from Fresno southward allowing for areas of fog to form during the evening as wind remained light. Some area of dense fog were noted along the SR 99 corridor in Tulare and Kern Counties. An incoming storm allowed for some mixing to take place overnight which resulted in the fog layer lifting into a low cloud deck and improving visibility in the south valley.

## Storm Data and Unusual Weather Phenomena - December 2021

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<b>(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z328) KINGS CANYON NP, (CA-Z330) SEQUOIA NP</b>				
	12/23/21 04:00 PST		0	Heavy Snow
	12/24/21 04:00 PST		0	
<b>FRESNO COUNTY --- 4.2 NW GLORIETTA [36.90, -119.72], 4.1 NW GLORIETTA [36.90, -119.71], 4.0 NW GLORIETTA [36.89, -119.71], 4.0 NW GLORIETTA [36.89, -119.72]</b>				
	12/23/21 15:12 PST		0	Flood (due to Heavy Rain)
	12/23/21 16:12 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding at the intersection of E. Copper Ave. and Auberry Rd.				
<b>FRESNO COUNTY --- 2.3 WNW BIOLA [36.81, -120.06], 2.2 WNW BIOLA [36.81, -120.06], 2.3 WNW BIOLA [36.81, -120.06], 2.3 WNW BIOLA [36.81, -120.06]</b>				
	12/23/21 15:48 PST		0	Flood (due to Heavy Rain)
	12/23/21 16:48 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding at the intersection of N. Madera Ave. and W. Shaw Ave.				
<b>FRESNO COUNTY --- 0.3 N SHAVER LAKE HGTS [37.10, -119.32], 0.3 N SHAVER LAKE HGTS [37.10, -119.32], 0.3 N SHAVER LAKE HGTS [37.10, -119.32], 0.3 N SHAVER LAKE HGTS [37.10, -119.32]</b>				
	12/23/21 16:17 PST		0	Flood (due to Heavy Rain / Burn Area)
	12/23/21 18:17 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding at the intersection of SR 168 and Sparrow Rd.				
<b>TULARE COUNTY --- 1.7 WSW STRATHMORE AIRPORT [36.16, -119.08], 1.9 WSW STRATHMORE AIRPORT [36.16, -119.08], 1.9 WSW STRATHMORE AIRPORT [36.16, -119.08], 1.7 WSW STRATHMORE AIRPORT [36.16, -119.08]</b>				
	12/23/21 16:35 PST		0	Flood (due to Heavy Rain)
	12/23/21 17:35 PST		0	Source: Law Enforcement
California Highway Patrol reported roadway flooding at the intersection of SR 65 and Harvard Ave.				
<b>TULARE COUNTY --- 3.6 E KAWEAH [36.47, -118.85], 3.6 E KAWEAH [36.47, -118.85], 3.6 E KAWEAH [36.47, -118.85], 3.6 E KAWEAH [36.47, -118.85]</b>				
	12/23/21 16:45 PST		0	Debris Flow
	12/23/21 18:45 PST		0	Source: Law Enforcement
California Highway Patrol reported a large boulder on the road at the intersection of Crest Ln. and Sierra King Dr.				
<p>A deep upper trough with a warm subtropical moisture fetch in front of it pushed into central California during the evening of December 22 and brought a period of rain and higher elevation snow to the area which continued through the evening of December 23. Several stations in the Sierra Nevada measured between 1 and 3 inches of liquid precipitation with the snow level between 8000 and 9000 feet. Rain shadowing kept precipitation amounts in the San Joaquin Valley lower with a half inch to an inch of rain on the east side and a quarter to half inch of the west side. Some localized nuisance flooding was reported during the afternoon of December 23. Cooler air pushed into the area during the evening of December 23 resulting in showery precipitation which continued through the early morning of December 24. A few higher elevation SNOTELs picked up an estimated 18 to 24 inches of new snowfall. Some ice pellet showers and a few thunderstorms were observed in the Sierra foothills and the snow level in the Sierra Nevada lowered to around 5500 feet before the precipitation tapered off.</p>				
<b>(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z330) SEQUOIA NP</b>				
	12/25/21 16:00 PST		0	Heavy Snow
	12/26/21 10:00 PST		0	
<p>A cold low pressure system pushed into the Pacific Northwest on Christmas Day and through Central California on December 26. This system brought heavy precipitation to the Sierra Nevada with several SNOTELs picking up an estimated 18 to 24 inches of new snowfall, and snow falling as low as 2000 feet before the precipitation ended during the morning of December 26. Much of the Sierra Nevada and adjacent foothills picked up between an inch to two and a half inches of liquid precipitation while the San Joaquin Valley picked up another half inch to an inch of rain on the east side and a quarter to half inch of the west side. Much of the Tehachapi Mountains picked up between a quarter to a half inch of liquid precipitation although impacts to the major passes was minimal.</p>				
<b>(CA-Z323) YOSEMITE NP OUTSIDE OF THE VALLEY, (CA-Z326) UPPER SAN JOAQUIN RIVER, (CA-Z327) KAISER TO RODGERS RIDGE, (CA-Z328) KINGS CANYON NP, (CA-Z330) SEQUOIA NP, (CA-Z331) SOUTH END OF THE UPPER SIERRA</b>				

## Storm Data and Unusual Weather Phenomena - December 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/27/21 04:00 PST		0	Winter Weather
	12/28/21 16:00 PST		0	

**(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI**

	12/27/21 16:10 PST		0	High Wind (MAX 74 kt)
	12/27/21 20:27 PST		0	

Another cold upper low pressure system pushed through central California between the morning of December 27 and the morning of December 28. Several stations in the Sierra Nevada adjacent foothills picked up between 0.75 inches and 1.5 inches of liquid precipitation with several higher elevation SNOTELs picking up 8 to 16 inches of new snowfall. Several stations in the Sierra foothills and Tehachapi Mountains picked up between 1 and 3 inches of new snowfall. Most of the San Joaquin Valley picked up between a quarter inch and a half inch of rain. This system also produced a period of strong wind gusts in the Kern County Mountains and Deserts during the afternoon and evening of December 27 as the main cold front pushed through the area. Several stations reported gusts exceeding 40 mph with a few low impact indicator sites briefly measuring gusts exceeding 65 mph.

**(CA-Z333) PIUTE - WALKER PASS (BASIN?), (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE, (CA-Z336) FRAZIER MOUNTAIN COMMUNITIES**

	12/29/21 07:00 PST		0	Winter Weather
	12/30/21 13:00 PST		0	

**KERN COUNTY --- 0.4 ENE MIRACLE HOT SPGS [35.58, -118.52], 0.5 E MIRACLE HOT SPGS [35.58, -118.52], 0.7 NE MIRACLE HOT SPGS [35.59, -118.52], 0.6 NE MIRACLE HOT SPGS [35.59, -118.52]**

	12/30/21 04:02 PST		0	Debris Flow
	12/30/21 06:02 PST		0	Source: Law Enforcement

California Highway Patrol reported a large boulder on Old Kern River Canyon Rd.

A low pressure system dropped slowly southward along the California coast on December 29 and 30 resulting in much of the area picking up between a quarter to half an inch of liquid precipitation. The snow level varied during this event beginning at around 2000 feet during the morning of December 29, but quickly rising to around 5000 feet by the afternoon of December 29. Snow levels lowered overnight to around 4000 feet by the morning of December 30 resulting in accumulation snow on several roads in the Kern County Mountains. Interstate 5 was closed through Tejon Pass for a few hours as a result of snow fall disabling several vehicles trying to travel through the area. A surge of milder marine air pushed in over the Tehachapi Mountains during the afternoon of December 30 resulting in the snow turning to rain and temperatures rising well above the freezing mark. The precipitation ended by early evening as the slow moving low moved out of the area.

**(CA-Z307) FRESNO - CLOVIS, (CA-Z311) HANFORD - CORCORAN - LEMOORE, (CA-Z312) VISALIA - PORTERVILLE - REEDLEY, (CA-Z334) TEHACHAPI, (CA-Z335) GRAPEVINE**

	12/30/21 18:35 PST		0	Dense Fog
	12/31/21 14:30 PST		0	

Following the departure of the slow moving low pressure system which brought low elevation snowfall to portions of central California and disrupted holiday travel on December 29 and 30, upslope flow over the Tehachapi Mountains resulted in low clouds banking up producing dense fog in the Tehachapi Valley and to the north of Tejon Pass along interstate 5 which further disrupted holiday travelers during the evening of December 30 until the early afternoon of December 31. In addition, areas of dense fog formed for a few hours in the San Joaquin Valley where skies cleared out, disrupting travel along SR 99 during the morning of December 31 until the fog lifted into a low cloud deck.

**(CA-Z331) SOUTH END OF THE UPPER SIERRA, (CA-Z334) TEHACHAPI, (CA-Z338) MOJAVE DESERT SLOPE(S)**

	12/31/21 15:10 PST		0	High Wind (MAX 62 kt)
	12/31/21 20:00 PST		0	

An upper level shortwave system which dropped southeast through the Great Basin on December 31 produced increased surface pressure gradients which resulted in strong downslope winds along the Mojave Desert slopes of the Tehachapi Mountains during the afternoon and evening hours. Several stations measured wind gusts exceeding 45 mph with a few stations reporting gusts exceeding 60 mph.