

Storm Data and Unusual Weather Phenomena - June 2024

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

(CA-Z338) MOJAVE DESERT SLOPE(S)

	06/01/24 19:40 PST	0	High Wind (MAX 52 kt)
	06/02/24 04:20 PST	0	

An upper trough pushed through the Pacific Northwest on June 1 and 2. This system produced increased onshore pressure gradients between the evening of June 1 and the morning of June 2 resulting in a period of gusty winds along the Mojave Desert slopes with several stations measuring gusts exceeding 45 mph.

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

	06/03/24 19:27 PST	0	High Wind (MAX 57 kt)
	06/03/24 23:40 PST	0	

A shortwave trough dropping through the Great Basin on June 3 produced a period of increased onshore pressure gradients across our area between the late morning of June 3 and the morning of June 4. This resulted in a period a strong wind gusts across the Kern County Mountains and the Mojave Desert Slopes. Several stations measured gusts exceeding 45 mph and a few stations reported gusts exceeding 60 mph.

(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-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z321) SOUTH END SIERRA FOOTHILLS, (CA-Z332) KERN RIVER VALLEY, (CA-Z337) INDIAN WELLS VALLEY, (CA-Z338) MOJAVE DESERT SLOPE(S), (CA-Z339) MOJAVE DESERT

	06/05/24 10:00 PST	0	Heat
	06/07/24 19:00 PST	0	

A large upper ridge pushed inland into California on June 4 and strengthened further as it shifted into the Great Basin on June 5 and 6. This resulted in the first significant heat wave of the season across the interior of central California between June 5 and June 7. Temperatures cooled off across the area on June 8 although remaining above normal as a cold front crossed the region.

(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-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-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z321) SOUTH END SIERRA FOOTHILLS

	06/11/24 10:00 PST	0	Heat
	06/12/24 19:00 PST	0	

High pressure strengthened over central California on June 11 which resulted in daytime temperatures rising to the triple digits once again across most of the San Joaquin Valley and the lower Sierra foothills. Some cooling was noted along the west side of the valley on June 12 as an upper low pressure system approached the southern California coast although temperatures further inland remained well above normal. As the low moved inland on June 13, temperatures cooled further and remained below dangerous heat levels.

(CA-Z338) MOJAVE DESERT SLOPE(S)

	06/14/24 21:00 PST	0	High Wind (MAX 58 kt)
	06/14/24 21:20 PST	0	

A low pressure system moving across the Pacific Northwest helped push a cold front through central California between the evening of June 14 and the morning of June 15 resulting a period of increased winds along the Mojave Desert Slopes with several stations reporting gusts exceeding 45 mph.

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

	06/16/24 16:40 PST	0	High Wind (MAX 74 kt)
	06/17/24 21:00 PST	0	

A second low pressure system pushed into the Pacific Northwest on June 16 following the system which had pushed through during the two previous days. This system brought another cold front which pushed through central California between the afternoon of June 16 and the morning of June 17. Several stations in the Kern County Mountains and Deserts reported wind gusts exceeding 45 mph

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during this time frame with several stations along the Mojave Desert Slopes measuring gusts exceeding 65 mph. The strong winds continued through the early morning hours of June 18 before diminishing by late morning.

(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 - SHAFER, (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-Z319) FRESNO - TULARE FOOTHILLS, (CA-Z321) SOUTH END SIERRA FOOTHILLS

06/22/24 10:00 PST	0	Heat
06/25/24 19:00 PST	0	

A strong upper ridge built into central California from the Desert Southwest on June 22 and remained over the region through June 25 before weakening ahead of an approaching trough. The ridging resulted widespread triple digit heat across the San Joaquin Valley, West Side Hills and lower Sierra foothills between June 22 and June 25. Some tropical moisture from the remains of Tropical Storm Alberto was pulled up by the upper high and spread into southern California on June 23 and into central California on June 24 which resulted in higher heat indexes across the lower elevations on June 24 and some dry thunderstorms during the afternoon and evening on June 24 which ignited several grass and brush fires in the eastern portion of the San Joaquin Valley and the Sierra foothills.

FRESNO COUNTY --- 1.9 W SQUAW VLY [36.75, -119.28]

06/24/24 14:00 PST	1M	Lightning
06/24/24 20:00 PST	0	Source: Fire Department/Rescue

Dry lightning sparked several wildfires during the afternoon and evening of June 24 east of Reedley and Sanger. These fires became known as the Fresno Lightning Complex which resulted in several evacuations as the fires spread rapidly due to heavy fuel loading. The transmitter for KVPT Channel 18 was destroyed by one of the fires.

Moisture from the remains of Atlantic Tropical Storm Alberto wrapped around high pressure centered over the Desert Southwest the pulled up north behind it into central California on June 24 and 25. The result of this was thunderstorms which had little to no precipitation with them on both days. One cluster of thunderstorms produced dry lightning which ignited several wildfires east of Reedley during the afternoon of June 24 which became known as the Fresno Lightning Complex Fires.