

JUNE 2024 WEATHER SUMMARY FOR THE CENTRAL CALIFORNIA INTERIOR

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Near to slightly above average temperatures prevailed for the first few days. A heat wave occurred on the 5th through the 7th with the first triple digit highs reported in the San Joaquin Valley on the 5th. Another period of heat returned on the 11th and 12th, but near seasonal to cooler than average temperatures occurred shortly afterward, or on the 15th until the 20th. Warmer than average temperatures returned on the 21st and lasted until the end of the month, and widespread triple digit heat returned on the 22nd. The above temperatures continued through the end of the month. However, we had major fires start due to lightning on the 24th and 25th. The end of the month ended with a couple cooler days, though temperatures were still 4-5 degrees above normal. These temperatures are hovering around triple digits as a high pressure system moves into the area off the Pacific, and will lead into a heatwave that will occur during the first week of July. The warmest temperatures for each area occurred on June 23, 2024, with temperatures 7-10 degrees above average for this time of year.

Number of Days with Triple Digit Temperatures (Season from May 1-Oct 31st)

Bakersfield: 13 days for June (June average: 6 days; season to date average of 7 days)

Fresno: 11 days for June (June average: 7 days; season to date average of 8 days)

Hanford: 13 days for June (June average: 5 days; season to date average of 6 days)

Madera: 10 days for June (June average: 5 days; season to date average of 6 days)

Merced: 10 days for June (June average: 4 days; season to date average of 5 days)

Table 1 – June 2024 Summary Statistics– NWS Hanford, CA ASOS Sites						
Location	Monthly Average Temp (deg F)	Departure from Average (deg F)	Temperature Rank	Total Monthly Precipi- tation (inches)	Departure from Normal (inches)	Precipitation Rank
Bakersfield	83.3	+4.6	Tied for 5th warmest	0.00	-0.05	Tied for driest
Fresno	82.4	+4.8	4th warmest	T	-0.24	Tied for 54th driest
Hanford	81.2	+5.2	3rd warmest	0.00	-0.07	Tied for driest
Madera	79.0	+4.8	5th warmest	T	-0.16	Tied for 49th driest
Merced	78.7	+3.7	5th warmest	0.00	-0.12	Tied for driest

Mainly slightly above average temperatures occurred on the 1st, as highs reached the mid-90's in the San Joaquin Valley. Similar highs occurred in the Kern County desert, though reached near 100 degrees towards Ridgecrest/China Lake NAF. As is typical in early June, the Mojave Desert slopes reported wind gusts around 45-60 mph during the afternoon and evening of the 1st into the morning of the 2nd. Gusty winds redeveloped on the evening of the 2nd and again on the afternoon and evening of the 3rd. Temperatures remained steady on the 3rd and warmed slightly on the 4th.

A ridge of high pressure strengthened over Central California by the 5th. Locations in the Central Valley reached above 100 degrees for the first time this year on the 5th. Even hotter temperatures were reported on the 6th, as highs reached around 105 to 110 degrees in the hottest Central Valley and Mojave Desert locations on the 6th. Low temperatures failed to dip below the 70's in

many locations during this period, as well as on the morning of the 7th. On the 6th, some record high minimum temperatures were tied or broken (Fresno, Hanford, and Madera), and a record high maximum temperature was tied at Fresno (107 degrees).

By the 8th, temperatures began to moderate, and highs lowered to slightly above seasonal averages on the 9th and 10th. Breezy conditions with locally gusty winds at times developed during the afternoons and evenings during this period.

Hot temperatures returned on the 11th and 12th as a ridge of high pressure built over the region. In addition, easterly winds allowed for additional heating on these days, and highs reached around 10 to 15 degrees above average. This resulted in another round of triple digit heat over much of the lower elevations. Highs reached at or above 105 degrees in the warmest locations, including in both the San Joaquin Valley and the Kern County desert, on the 12th.

A cooling trend began on the 13th, although above average temperatures prevailed until the 14th. Except in portions of the Kern County desert where triple digit heat persisted, near average temperatures occurred on the 15th until the 18th, except for below average values on the 17th, including highs in the lower to mid 80's in the San Joaquin Valley. This was due to a persistent trough of low pressure along the West Coast which brought a dry cold front with increased winds into the region on the night of the 16th into the 17th. Gusts along the Mojave Desert slopes once again increased on the evening of the 14th and again on the afternoons and evenings of the 15th and 16th, with gusts around 55 to 75 mph. The strongest gusts were reported on the night of the 16th into the early morning of the 17th. A gradual warming trend began on the 18th, and temperatures returned to the mid 90's by the 20th at most of the warmest locations. However, the warming trend began in earnest on the 21st with widespread triple digit heat by the 22nd.

On the 24th and 25th, a few thunderstorms popped up in the Valley and the Sierra Nevada. Multiple fires were started on the 24th and 25th by the lightning and the 26th the fires grew. Temperatures returned to the triple digits on the 29th and 30th to finish the month.

Table 2 – Seasonal Precipitation for ASOS Locations (ending on June 30th, 2024)

Location	Since Jan 1st (inches)	Departure From Average (inches)	Since Jul 1st (inches)	Departure From Average (inches)	Since Oct 1st (inches)	Departure From Normal (inches)
Bakersfield	5.87	+1.45	7.91	-1.55	6.83	+0.52
Fresno	9.10	+1.4	10.18	-0.81	9.99	-0.93
Hanford	7.38	+1.75	9.14	+1.01	8.66	+0.59
Madera	8.08	+0.51	10.10	+0.69	9.97	-0.78
Merced	12.20	+4.02	15.32	+3.52	15.20	+3.45

Table 3– Warmest High Temperatures and Coolest Low Temperatures of the Month for ASOS Locations

Location	High	Date(s)	Low	Date(s)
Bakersfield	108	June 23	60	June 18 and June 20
Fresno	108	June 23	59	June 2 and June 18
Hanford	109	June 23	52	June 18
Madera	107	June 23	53	June 18 and June 20
Merced	108	June 23	52	June 18

Daily Records Set During June 2024

Bakersfield – 24th: Record high minimum temperature of 79 degrees, which ties the record of set for the date in 2017.

Fresno – 6th: Record high temperature of 107 degrees tied, which last occurred on the date in 1903. Record high minimum temperature of 78 degrees, which broke the old record of 75 degrees set for the date in 1926.

24th: Record high minimum temperature of 77 degrees, which broke the old record of 76 degrees set for the date in 2006.

Hanford – 6th: Record high minimum temperature of 71 degrees tied, which last occurred on the date in 1972.

12th: Record high maximum temperature of 106 degrees tied, which last occurred on the date in 1979.

Madera – 6th: Record high minimum temperature of 70 degrees reached, which broke the previous record of 69 degrees set for the date in 1979.

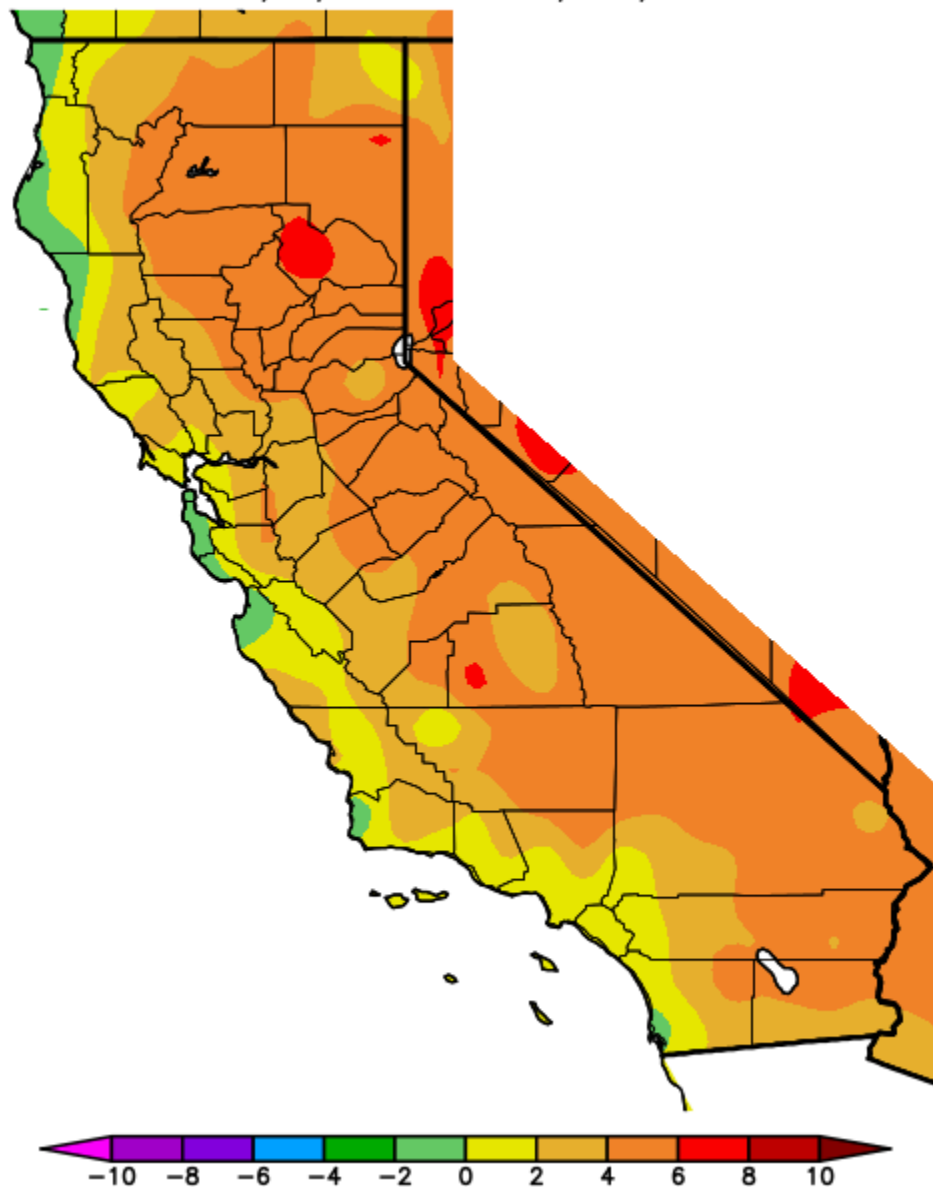
Merced – 23th: Record high maximum temperature of 109 degrees, which broke the old record of 107 degrees set for the date in 1939 and 1954.

24th: Record high minimum temperature of 70 degrees, which broke the old record of 69 degrees set for the date in 1936.

Fig 1 – Departure from Average Temperature for this month

Ave. Temperature dep from Ave (deg F)

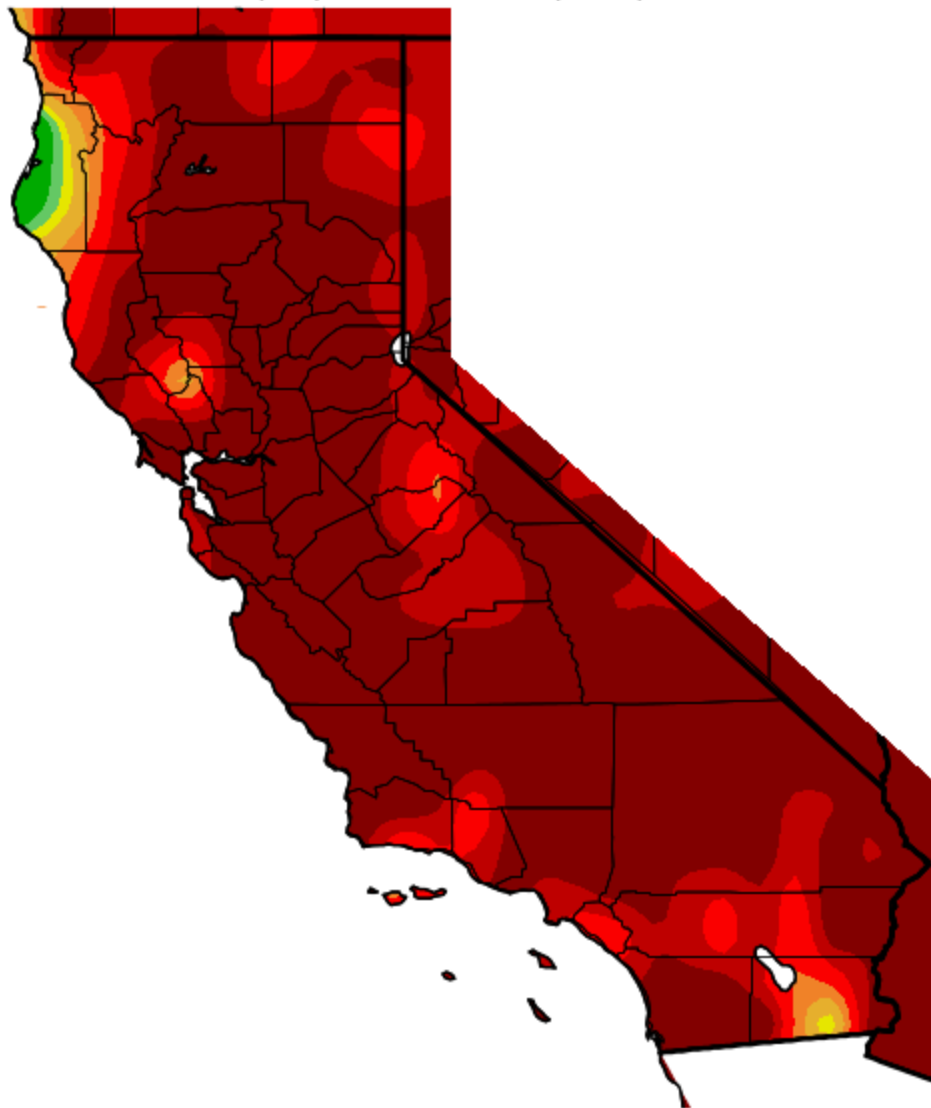
6/1/2024 – 6/30/2024



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NOAA Regional Climate Centers

Fig 2 – Percent of Average Precipitation for this month

Percent of Average Precipitation (%)
6/1/2024 – 6/30/2024



Generated 7/ 1/2024 at WRCC using provisional data.
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