

## Storm Data and Unusual Weather Phenomena - June 2018

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

### CALIFORNIA, South Central

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#### (CA-Z099) SE KERN CTY DESERT

|  |                    |   |  |                       |
|--|--------------------|---|--|-----------------------|
|  | 06/01/18 00:00 PST | 0 |  | High Wind (MAX 50 kt) |
|  | 06/01/18 00:00 PST | 0 |  |                       |

The strong winds that took place over the Kern County Mountains and Deserts during the evening hours on May 31 continued into the early morning hours of June 1. The winds diminished by late morning.

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#### (CA-Z095) KERN CTY MTNS, (CA-Z097) TULARE CTY MTNS, (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT

|  |                    |   |  |                       |
|--|--------------------|---|--|-----------------------|
|  | 06/09/18 05:10 PST | 0 |  | High Wind (MAX 70 kt) |
|  | 06/09/18 23:26 PST | 0 |  |                       |

An upper level low pressure system moved across the Pacific Northwest on June 9 which pushed cooler air into Central California. This produced a strong onshore pressure gradient which resulted in a period of increased winds across the Kern County Mountains and Deserts where several locations measured gusts exceeding 50 mph between the afternoon of June 9 and the morning of June 10. Some stronger gusts were observed mainly at low impact indicator sites.

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#### (CA-Z095) KERN CTY MTNS, (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT

|  |                    |   |  |                       |
|--|--------------------|---|--|-----------------------|
|  | 06/17/18 14:14 PST | 0 |  | High Wind (MAX 55 kt) |
|  | 06/17/18 21:37 PST | 0 |  |                       |

An upper level low pressure system moved into Northern California on June 16. This resulted in increased onshore flow over Central California and a noticeable cooling trend across the area between the 15th (when temperatures were above normal) and the 17th (when temperatures were several degrees below normal for mid June). A strong inland push of marine cooled air resulted in breezy conditions over the west side of the San Joaquin Valley on the afternoon of June 16 where several locations had gusts exceeding 35 mph. Increased pressure gradients produced gusty winds over the Kern County Mountains and Deserts from the afternoon of June 17 through the morning of June 18. Several stations reported gusts exceeding 45 mph while a few locations had peak gusts near 60 mph. The winds diminished by the afternoon of the 18th as the upper low lifted northeast into the Northern Rockies.

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#### (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

|  |                    |   |  |      |
|--|--------------------|---|--|------|
|  | 06/22/18 11:00 PST | 0 |  | Heat |
|  | 06/24/18 19:00 PST | 0 |  |      |

A large high pressure ridge strengthened off the California coast on June 22 and slowly built inland through June 24 providing the San Joaquin Valley with it's first prolonged period of triple digit heat in 2018. As a result of the widespread triple digit heat in the San Joaquin Valley during this period, several municipalities opened cooling centers during the afternoon hours. The ridge weakened and moved east of the area on June 25 allowing for cooler air to push into the San Joaquin Valley and end the hot spell.

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#### (CA-Z095) KERN CTY MTNS, (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT

|  |                    |   |  |                       |
|--|--------------------|---|--|-----------------------|
|  | 06/27/18 21:27 PST | 0 |  | High Wind (MAX 62 kt) |
|  | 06/28/18 19:20 PST | 0 |  |                       |

An upper trough pushed through California between the evening of June 27 and the morning of June 29. While this system was moisture deficient and did not produce any precipitation across the area, it did provide for a period of increased winds across the area as onshore pressure gradients strengthened. Several stations measured wind gusts exceeding 40 mph while a few low impact indicator sites briefly reported wind gusts exceeding 60 mph.