

## Storm Data and Unusual Weather Phenomena - January 2017

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

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### CALIFORNIA, South Central

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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, (CA-Z093) S SIERRA FOOTHILLS, (CA-Z094) TULARE CTY FOOTHILLS, (CA-Z095) KERN CTY MTNS, (CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS, (CA-Z098) INDIAN WELLS VLY, (CA-Z099) SE KERN CTY DESERT

|                    |   |         |
|--------------------|---|---------|
| 01/01/17 00:00 PST | 0 | Drought |
| 01/31/17 23:59 PST | 0 |         |

The California drought strength lessened over during the month of January, 2017. Fresno received 5.50" of precipitation and Bakersfield received 2.76" precipitation during the month. Fresno had much above normal precipitation with 3.31" above normal. Bakersfield had significantly above normal precipitation with 1.60" above the normal precipitation amounts. Above normal precipitation amounts did allow for continued improvement on drought conditions with an increase in soil moisture and significant reservoir recharge.

The U.S. Drought Monitor continued to report drought conditions across the entire Central California region. However, several reductions in the drought category occurred during the month. The first happened on January 10th across the northern most portions of the area due to above normal rainfall. The trend continued the following week across the Sierra Nevada Range north of Sequoia National Park. This too was due to above normal precipitation and a good amount of snow pack. Valley locations were still experiencing many dry wells even with the above normal precipitation. However, by the 24th valley locations too had a reduction in category as streams and lakes began to fill due to the wet month. Only a small area in southwestern Kern county had the Extreme (D3) category left, though most of the San Joaquin Valley were still under Severe Drought (D2). The month ended with only the San Emigdio Mountains remaining under Extreme Drought (D3).

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#### MARIPOSA COUNTY --- 1.6 E ELLIOTT CORNER [37.47, -119.74]

|                    |   |                         |
|--------------------|---|-------------------------|
| 01/04/17 07:27 PST | 0 | Heavy Rain              |
| 01/04/17 07:27 PST | 0 | Source: Trained Spotter |

Trained Spotter near Ponderosa Basin in Mariposa County reported a 24 hour rainfall total of 1.90 inches.

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#### (CA-Z096) S SIERRA MTNS

|                    |   |            |
|--------------------|---|------------|
| 01/04/17 08:00 PST | 0 | Heavy Snow |
| 01/05/17 08:00 PST | 0 |            |

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#### MARIPOSA COUNTY --- 0.6 S MORMON BAR [37.46, -119.95], 0.9 SSW MORMON BAR [37.46, -119.95], 1.0 S MORMON BAR [37.46, -119.95], 0.5 S MORMON BAR [37.46, -119.95]

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/04/17 14:00 PST | 0 | Flood (due to Heavy Rain) |
| 01/04/17 14:00 PST | 0 | Source: Law Enforcement   |

Mariposa County Sheriff reported flooding along Mariposa Creek near Mormon Bar in Mariposa County . Also reported several minor road crossings were closed due to flooding.

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#### KERN COUNTY --- 2.5 NNW DI GIORGIO [35.28, -118.85], 1.4 NW DI GIORGIO [35.27, -118.85], 1.1 NNW DI GIORGIO [35.27, -118.84], 2.4 NNW DI GIORGIO [35.28, -118.84]

|                    |   |                                |
|--------------------|---|--------------------------------|
| 01/05/17 06:00 PST | 0 | Flood (due to Heavy Rain)      |
| 01/05/17 06:00 PST | 0 | Source: Department of Highways |

Kern County Department of Highways reported flooding northeast of Lamont on Comanche Drive from Panama Road to Mountain View Road.

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#### MARIPOSA COUNTY --- 1.6 E ELLIOTT CORNER [37.47, -119.74]

|                    |   |                         |
|--------------------|---|-------------------------|
| 01/05/17 06:47 PST | 0 | Heavy Rain              |
| 01/05/17 06:47 PST | 0 | Source: Trained Spotter |

Trained Spotter near Ponderosa Basin in Mariposa County reported a 24 hour rainfall total of 3.08 inches.

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#### KERN COUNTY --- 0.8 NE GLENNVILLE [35.74, -118.69], 1.5 SSE GLENNVILLE [35.71, -118.69], 0.9 NW ALTA SIERRA [35.74, -118.56], 2.7 NW ALTA SIERRA [35.76, -118.58]

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/05/17 06:48 PST | 0 | Flood (due to Heavy Rain) |
| 01/05/17 06:48 PST | 0 | Source: Law Enforcement   |

California Highway Patrol reported State Route 155 is closed between 5.5 miles east of Glennville to Greenhorn Summit due to flooding on highway.

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| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
| <b>KERN COUNTY --- 8.5 SW DEMOCRAT SPGS [35.46, -118.79], 8.1 SW DEMOCRAT SPGS [35.45, -118.78], 6.0 SW DEMOCRAT SPGS [35.46, -118.74], 2.9 SSW DEMOCRAT SPGS [35.49, -118.68], 3.3 SW DEMOCRAT SPGS [35.50, -118.72], 5.7 WSW DEMOCRAT SPGS [35.49, -118.76]</b> |                    |                   |                     |                                |
|   | 01/05/17 07:00 PST |                   | 0                   | Debris Flow                    |
|   | 01/05/17 07:00 PST |                   | 0                   | Source: Law Enforcement        |
| California highway patrol reports Highway 178 was closed from Kern Canyon Road through the canyon due to several rock slides from heavy rainfall.   |                    |                   |                     |                                |
| <b>KERN COUNTY --- 0.7 S CALIENTE [35.29, -118.63], 0.6 SSE CALIENTE [35.29, -118.63], 0.9 SSE CALIENTE [35.29, -118.63], 0.9 SSW CALIENTE [35.29, -118.63]</b>   |                    |                   |                     |                                |
|   | 01/05/17 07:30 PST |                   | 0                   | Flood (due to Heavy Rain)      |
|   | 01/05/17 07:30 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding in Caliente on Caliente Bodfish Road near Bealville Road by the Post Office.   |                    |                   |                     |                                |
| <b>KERN COUNTY --- 0.3 SSW KERNALE [35.62, -118.48], 0.5 SE KERNALE [35.61, -118.48], 0.3 ESE KERNALE [35.62, -118.47], 0.1 S KERNALE [35.62, -118.48]</b>  |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 6K                  | Flood (due to Heavy Rain)      |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding in Lake Isabella at the intersection of Lake Isabella Road and Erskine Creek Road. Power poles were also reported leaning due to erosion in this area.   |                    |                   |                     |                                |
| <b>KERN COUNTY --- 2.4 ENE LAMONT [35.28, -118.88], 2.2 NNW RIBIER [35.28, -118.88], 2.1 NNE RIBIER [35.28, -118.86], 2.4 NNE RIBIER [35.28, -118.86]</b>   |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 0                   | Flood (due to Heavy Rain)      |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding northeast of Lamont on Mountain View Road from Edison Road to Malaga Road.   |                    |                   |                     |                                |
| <b>KERN COUNTY --- 2.9 NE LAMONT [35.30, -118.88], 3.3 NE LAMONT [35.30, -118.87], 1.1 NNW RIBIER [35.27, -118.87], 1.3 NNW RIBIER [35.27, -118.88]</b>   |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 0                   | Flood (due to Heavy Rain)      |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding northeast of Lamont on Edison Road from Panama Road to Panama Lane.  |                    |                   |                     |                                |
| <b>KERN COUNTY --- 5.0 WSW RICARDO [35.35, -118.06], 3.2 SSW CANTIL [35.26, -118.00], 1.5 SSE GARLOCK [35.38, -117.77], 4.6 N GARLOCK [35.47, -117.77]</b>  |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 0                   | Flood (due to Heavy Rain)      |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding near Red Rock Randsburg Road near Red Rock Canyon State Park from Highway 395 to Highway 14 and Garlock Road.  |                    |                   |                     |                                |
| <b>KERN COUNTY --- 7.0 S HAVILAH [35.42, -118.54], 7.3 S HAVILAH [35.42, -118.54], 7.3 S HAVILAH [35.42, -118.53], 7.0 S HAVILAH [35.42, -118.53]</b>   |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 0                   | Flood (due to Heavy Rain)      |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Department of Highways |
| Kern County Department of Highways reported flooding south of Havilah on Walsler Road from Dailey Road to Caliente Bodfish Road.  |                    |                   |                     |                                |
| <b>MARIPOSA COUNTY --- 1.6 E ELLIOTT CORNER [37.47, -119.74]</b>  |                    |                   |                     |                                |
|   | 01/05/17 09:00 PST |                   | 0                   | Heavy Rain                     |
|   | 01/05/17 09:00 PST |                   | 0                   | Source: Public                 |
| Public report of 24 hour rainfall of 2.70 inches near Ponderosa Basin in Mariposa County.   |                    |                   |                     |                                |
| <b>TULARE COUNTY --- 0.9 SE CAMP NELSON [36.14, -118.61]</b>  |                    |                   |                     |                                |
|   | 01/05/17 09:11 PST |                   | 0                   | Heavy Rain                     |
|   | 01/05/17 09:11 PST |                   | 0                   | Source: Public                 |
| Public report of 24 hour rainfall total of 5.70 inches in Camp Nelson.  |                    |                   |                     |                                |
| <b>KERN COUNTY --- 1.1 SSW BODFISH [35.59, -118.51], 0.6 S BODFISH [35.59, -118.50], 1.1 SSE BODFISH [35.59, -118.49], 1.5 S BODFISH [35.58, -118.50]</b>   |                    |                   |                     |                                |

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|---|--------------------|-------------------|---------------------|---------------------------------|
|   | 01/05/17 09:30 PST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|   | 01/05/17 10:00 PST |                   | 0                   | Source: Department of Highways  |
| Kern County Department of Highways reported flooding in Bodfish on Caliente Bodfish Road at Rim Road for southbound traffic.  |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 2.4 N DI GIORGIO [35.28, -118.83], 2.5 NNE DI GIORGIO [35.28, -118.82], 1.1 NNE DI GIORGIO [35.27, -118.82], 1.1 N DI GIORGIO [35.27, -118.83]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 09:30 PST |                   | 0                   | Flood (due to Heavy Rain)       |
|   | 01/05/17 09:30 PST |                   | 0                   | Source: Department of Highways  |
| Kern County Department of Highways reported flooding east of Lamont on Tejon Highway from Mountain View Road to Panama Road.  |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 4.4 NE EDISON [35.40, -118.82], 5.1 NE EDISON [35.40, -118.80], 4.7 NE EDISON [35.39, -118.80], 3.9 NE EDISON [35.39, -118.82]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 09:30 PST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|   | 01/05/17 09:30 PST |                   | 0                   | Source: Department of Highways  |
| Kern County Department of Highways reported flooding east of Bakersfield on Breckenridge Road about 3 miles from Commanche Drive.   |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 6.2 WSW CABLE [35.13, -118.60], 5.8 WSW CABLE [35.13, -118.60], 6.2 WSW CABLE [35.11, -118.60], 6.4 WSW CABLE [35.12, -118.61]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 10:30 PST |                   | 0                   | Flood (due to Heavy Rain)       |
|   | 01/05/17 10:30 PST |                   | 0                   | Source: Department of Highways  |
| Kern County Department of Highways reported flooding near Bear Valley Springs on Pellisier Road between Girauo Road and Baumbach Road.  |                    |                   |                     |                                 |
| <b>MARIPOSA COUNTY --- 0.6 W FISH CAMP [37.48, -119.64]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 10:52 PST |                   | 0                   | Heavy Rain                      |
|   | 01/05/17 10:52 PST |                   | 0                   | Source: Trained Spotter         |
| Trained spotter report of 24 hour rainfall total over 5 inches in Fish Camp.  |                    |                   |                     |                                 |
| <b>(CA-Z095) KERN CTY MTNS</b>  |                    |                   |                     |                                 |
|   | 01/05/17 13:15 PST |                   | 15K                 | Dense Fog                       |
|   | 01/05/17 13:15 PST |                   | 0                   |                                 |
| <b>KERN COUNTY --- 2.4 ESE DI GIORGIO [35.24, -118.79], 2.4 ESE DI GIORGIO [35.23, -118.79], 2.8 ESE DI GIORGIO [35.23, -118.78], 2.6 ESE DI GIORGIO [35.24, -118.79]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 17:00 PST |                   | 15K                 | Flood (due to Heavy Rain)       |
|   | 01/05/17 17:00 PST |                   | 0                   | Source: Public                  |
| Public reported truck swept away in high water near Rockpile Road. However, no substantiating evidence had been received.   |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 1.8 WNW ARVIN [35.21, -118.86], 2.2 W ARVIN [35.21, -118.87], 1.8 W ARVIN [35.20, -118.86], 1.6 WNW ARVIN [35.21, -118.86]</b>   |                    |                   |                     |                                 |
|   | 01/05/17 21:00 PST |                   | 36K                 | Flood (due to Heavy Rain)       |
|   | 01/05/17 21:00 PST |                   | 0                   | Source: Public                  |
| Public reported that three vehicles stuck in high water on Malaga Road near East Canal just west of Arvin in Kern County.   |                    |                   |                     |                                 |
| <b>Low pressure moving southeastward into central CA from the Pacific Northwest allowed subtropical moisture stream to be pumped into the region bringing heavy rainfall to the San Joaquin Valley and foothill areas. Orographic lifting caused intensification of rains at times. Heavy mountain snows also occurred. Low clouds and fog from the orographic lifting also created dangerous driving conditions for the Kern County mountain passes.</b> |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 1.3 WNW TEHACHAPI [35.14, -118.47], 1.1 WNW TEHACHAPI [35.14, -118.47], 1.3 NW TEHACHAPI [35.14, -118.46], 1.6 NW TEHACHAPI [35.15, -118.47]</b>   |                    |                   |                     |                                 |
|   | 01/07/17 11:14 PST |                   | 0                   | Flood (due to Heavy Rain)       |
|   | 01/07/17 11:14 PST |                   | 0                   | Source: Law Enforcement         |
| California Highway Patrol reported roadway flooding at Highway 58 and State Route 202 near Tehachapi.   |                    |                   |                     |                                 |
| <b>KERN COUNTY --- 1.5 WNW CANTIL [35.31, -117.99], 0.9 W CANTIL [35.30, -117.99], 1.2 NNE CANTIL [35.32, -117.97], 1.9 NNW CANTIL [35.32, -117.99]</b>   |                    |                   |                     |                                 |

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|----------|--------------------|-------------------|---------------------|---------------------------|
|          | 01/07/17 11:17 PST |                   | 0                   | Flood (due to Heavy Rain) |
|          | 01/07/17 11:17 PST |                   | 0                   | Source: Law Enforcement   |

California Highway Patrol reported roadway flooding at Highway 14 and Redrock Randsburg Road near Cantil.

**TULARE COUNTY --- 3.4 ENE FOUNTAIN SPGS [35.89, -118.86], 3.2 ENE FOUNTAIN SPGS [35.89, -118.86], 3.3 ENE FOUNTAIN SPGS [35.89, -118.86], 3.5 ENE FOUNTAIN SPGS [35.89, -118.86]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 12:31 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 12:31 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported road flooding and debris on Hot Springs Road and Road M-52 about 20 miles west of California Hot Springs.

**MERCED COUNTY --- 1.0 SW CORTEZ [37.46, -120.74], 0.8 SW CORTEZ [37.46, -120.74], 0.5 WSW CORTEZ [37.47, -120.74], 0.8 WSW CORTEZ [37.47, -120.74]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 13:29 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 13:29 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported road flooding at Harding Road and Cortez Road near Cortez.

**TULARE COUNTY --- 2.4 ESE KAWEAH [36.46, -118.88], 2.6 E KAWEAH [36.47, -118.87], 2.7 NE THREE RIVERS [36.45, -118.86], 2.2 NE THREE RIVERS [36.45, -118.87]**

|  |                    |  |   |                                 |
|--|--------------------|--|---|---------------------------------|
|  | 01/07/17 14:44 PST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 01/07/17 15:00 PST |  | 0 | Source: Law Enforcement         |

California Highway Patrol reported roadway flooding on Highway 198 and Craig Ranch Road northeast of Three Rivers.

**FRESNO COUNTY --- 1.1 SE RAISIN CITY [36.59, -119.89], 0.9 SE RAISIN CITY [36.59, -119.89], 0.8 SE RAISIN CITY [36.59, -119.89], 0.9 SE RAISIN CITY [36.59, -119.89]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 15:00 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 15:00 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported roadway flooding southeast of Raisin City on Dinuba Avenue near Henderson Road.

**TULARE COUNTY --- 2.5 NE THREE RIVERS [36.46, -118.87], 2.9 E KAWEAH [36.47, -118.87], 3.0 NE THREE RIVERS [36.46, -118.86], 2.2 NE THREE RIVERS [36.45, -118.87]**

|  |                    |  |   |                         |
|--|--------------------|--|---|-------------------------|
|  | 01/07/17 17:38 PST |  | 0 | Debris Flow             |
|  | 01/07/17 19:30 PST |  | 0 | Source: Law Enforcement |

California Highway Patrol report of mud, dirt, and rock partially blocking Mineral King Road and Highway 198 intersection near Hammond. Traffic was able to move around the obstruction.

**FRESNO COUNTY --- 4.2 S SQUAW VLY [36.69, -119.24], 3.8 S SQUAW VLY [36.70, -119.24], 3.7 S SQUAW VLY [36.70, -119.25], 4.0 S SQUAW VLY [36.69, -119.25]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 19:17 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 19:17 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported a boulder in the road near the intersection of George Smith Road and Bronco Lane south of Squaw Valley.

**FRESNO COUNTY --- 3.4 WNW DUNLAP [36.76, -119.17], 3.4 WNW DUNLAP [36.75, -119.18], 3.1 WNW DUNLAP [36.75, -119.17], 3.3 NW DUNLAP [36.76, -119.17]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 19:38 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 19:38 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported large boulder in westbound lane of State Route 180 at Hopewell Road northeast of Squaw Valley.

**MADERA COUNTY --- 1.8 ESE WISHON [37.29, -119.52], 1.8 ESE WISHON [37.29, -119.52], 1.9 ESE WISHON [37.29, -119.52], 1.8 ESE WISHON [37.29, -119.52]**

|  |                    |  |   |                           |
|--|--------------------|--|---|---------------------------|
|  | 01/07/17 19:45 PST |  | 0 | Flood (due to Heavy Rain) |
|  | 01/07/17 19:45 PST |  | 0 | Source: Law Enforcement   |

California Highway Patrol reported large boulder on Road 274 near Central Camp Road east of Wishon.

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|---|--------------------|-------------------|---------------------|--|
| <b>TULARE COUNTY --- 4.3 ENE THREE RIVERS [36.45, -118.83], 4.6 ENE THREE RIVERS [36.46, -118.83], 5.2 ENE THREE RIVERS [36.45, -118.81], 5.1 ENE THREE RIVERS [36.45, -118.81]</b>         |                    |                   |                     |  |
|   | 01/07/17 20:35 PST |                   | 0                   | Flash Flood (due to Heavy Rain)          |
|   | 01/07/17 20:35 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reports mud slide and boulders blocking Mineral King Road near Three Rivers.  |                    |                   |                     |  |
| <b>TULARE COUNTY --- 1.5 NNE LEMONCOVE [36.40, -119.01], 1.4 N LEMONCOVE [36.40, -119.02], 1.6 N LEMONCOVE [36.40, -119.02], 1.7 NNE LEMONCOVE [36.40, -119.01]</b>                         |                    |                   |                     |  |
|   | 01/07/17 21:58 PST |                   | 0.16M               | Flash Flood (due to Heavy Rain)          |
|   | 01/07/17 21:58 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reports that Highway 198 at Long Road is closed due to a mudslide just southwest of Kaweah Lake.  |                    |                   |                     |  |
| <b>KINGS COUNTY --- 2.3 S ROSSI [36.27, -119.83], 2.1 SSW CIMARRON [36.27, -119.79], 7.6 SSW KETTLEMAN CITY [35.90, -120.02], 7.6 SSW KETTLEMAN CITY [35.91, -120.04]</b>                   |                    |                   |                     |  |
|   | 01/08/17 00:00 PST |                   | 0.64M               | Flood (due to Heavy Rain)                |
|   | 01/11/17 23:59 PST |                   | 0                   | Source: Department of Highways           |
| CalTrans reported accelerated pavement failure areas of Highway 41 across Kings County due to flood waters.   |                    |                   |                     |  |
| <b>FRESNO COUNTY --- 1.5 SSW INDIAN MISSION [36.96, -119.51], 1.5 SSW INDIAN MISSION [36.96, -119.51], 1.4 SSW INDIAN MISSION [36.96, -119.51], 1.5 SSW INDIAN MISSION [36.96, -119.51]</b> |                    |                   |                     |  |
|   | 01/08/17 00:20 PST |                   | 0                   | Flash Flood (due to Heavy Rain)          |
|   | 01/08/17 00:20 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reported that Highway 168 westbound was closed due to boulder and rock slide west of Humphreys Station.   |                    |                   |                     |  |
| <b>FRESNO COUNTY --- 5.2 SE ORA [36.10, -120.26], 5.0 SE ORA [36.10, -120.26], 4.8 SE ORA [36.10, -120.27], 5.2 SE ORA [36.10, -120.26]</b>   |                    |                   |                     |  |
|   | 01/08/17 19:46 PST |                   | 0                   | Flood (due to Heavy Rain)                |
|   | 01/08/17 19:46 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reported road completely flooded over on Highway 33 at Lost Hills Road southeast of Coalinga.   |                    |                   |                     |  |
| <b>FRESNO COUNTY --- 11.0 W COALINGA [36.12, -120.56], 13.0 W COALINGA [36.13, -120.60], 13.4 W COALINGA [36.12, -120.61], 11.0 WSW COALINGA [36.10, -120.56]</b>                           |                    |                   |                     |  |
|   | 01/08/17 21:21 PST |                   | 0                   | Flood (due to Heavy Rain)                |
|   | 01/08/17 21:21 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reported Highway 198 was closed due to road flooding from Firestone Avenue to the Fresno/Monterey County line west of Coalinga.                                   |                    |                   |                     |  |
| <b>MADERA COUNTY --- 0.7 N YOSEMITE FORKS [37.38, -119.63], 0.2 N YOSEMITE FORKS [37.37, -119.63], 0.2 NE YOSEMITE FORKS [37.37, -119.63], 0.9 N PONDEROSA ACRES [37.38, -119.62]</b>       |                    |                   |                     |  |
|   | 01/08/17 23:17 PST |                   | 0                   | Flood (due to Heavy Rain)                |
|   | 01/08/17 23:17 PST |                   | 0                   | Source: Law Enforcement                  |
| California Highway Patrol reported southbound lane of Highway 41 was blocked due to debris flow near Road 632 north of Yosemite Forks.  |                    |                   |                     |  |
| <b>MADERA COUNTY --- 2.3 NNW NORTH FORK [37.26, -119.54], 2.0 N NORTH FORK [37.26, -119.52], 1.7 N NORTH FORK [37.25, -119.52], 2.1 NNW NORTH FORK [37.26, -119.54]</b>                     |                    |                   |                     |  |
|   | 01/09/17 00:00 PST |                   | 0                   | Flash Flood (due to Planned Dam Release) |
|   | 01/09/17 00:00 PST |                   | 0                   | Source: Utility Company                  |
| Utility company reported that the mobile home park near Willow Creek and downstream from Crane Valley Dam was to be evacuated due to flood threat from planned Crane Valley Dam releases.   |                    |                   |                     |  |
| <b>TULARE COUNTY --- 1.4 N LEMONCOVE [36.40, -119.02], 1.0 NNW LEMONCOVE [36.39, -119.03], 0.9 N LEMONCOVE [36.39, -119.02], 1.4 N LEMONCOVE [36.40, -119.02]</b>                           |                    |                   |                     |  |
|   | 01/09/17 00:03 PST |                   | 0                   | Flood (due to Heavy Rain)                |
|   | 01/09/17 00:03 PST |                   | 0                   | Source: Broadcast Media                  |

## Storm Data and Unusual Weather Phenomena - January 2017

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details    |
|--|--------------------|----------------------|------------------------|---------------------------|
| Broadcast Media reported Highway 198 near Road 248 was closed due to flooding near Citro.  |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 2.1 SSW PRATHER [37.00, -119.53], 1.8 SSW PRATHER [37.01, -119.53], 1.6 SSW PRATHER [37.01, -119.53], 1.8 NW INDIAN MISSION [37.00, -119.53]</b>            |                    |                      |                        |                           |
|  | 01/09/17 00:46 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 00:46 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported rocks and boulders blocking part of southbound lane on Highway 168 near Tollhouse south of Prather.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 1.4 N THREE RIVERS [36.45, -118.90], 1.3 N THREE RIVERS [36.45, -118.90], 1.6 NNE THREE RIVERS [36.45, -118.89], 1.7 N THREE RIVERS [36.45, -118.90]</b>    |                    |                      |                        |                           |
|  | 01/09/17 01:00 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 01:00 PST |                      | 0                      | Source: County Official   |
| Tulare County Official reported that the bridge at Kaweah River Drive was closed due to flooding northeast of Three Rivers.  |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 1.3 WSW BURROUGH [36.97, -119.35], 1.9 WSW BURROUGH [36.97, -119.36], 1.8 SW BURROUGH [36.96, -119.36], 1.4 SW BURROUGH [36.97, -119.35]</b>                |                    |                      |                        |                           |
|  | 01/09/17 01:16 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 01:16 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported dirt and rocks on roadway due to small landslide from heavy rain on Burrough Valley Road near Sycamore Road east of Humphreys Station.        |                    |                      |                        |                           |
| <b>MADERA COUNTY --- 4.1 E INDIAN SPGS [37.06, -119.66], 4.5 E INDIAN SPGS [37.05, -119.65], 4.7 E INDIAN SPGS [37.05, -119.64], 4.3 E INDIAN SPGS [37.06, -119.65]</b>          |                    |                      |                        |                           |
|  | 01/09/17 02:11 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 02:11 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported rocks and dirt on Road 200 at Ralston Way just west of Fine Gold Creek north of Millerton Lake.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- MILO [36.22, -118.82], 0.3 ENE MILO [36.22, -118.82], 0.5 ESE MILO [36.22, -118.81], 0.3 SE MILO [36.22, -118.82]</b>                                       |                    |                      |                        |                           |
|  | 01/09/17 02:17 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 02:17 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Balch Park Road near Yokohl Valley Drive north of Springville.  |                    |                      |                        |                           |
| <b>MERCED COUNTY --- 2.1 SE MERCED ARPT [37.26, -120.49], 2.3 SE MERCED ARPT [37.26, -120.49], 2.5 SE MERCED ARPT [37.26, -120.48], 2.3 SE MERCED ARPT [37.26, -120.49]</b>      |                    |                      |                        |                           |
|  | 01/09/17 03:01 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 03:01 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported closure of Highway 59 at Reilly Road due to road flooding south of Merced.  |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 1.5 SSW CLOVIS [36.80, -119.71], 1.4 SSW CLOVIS [36.80, -119.71], 1.4 SSW CLOVIS [36.80, -119.71], 1.5 SSW CLOVIS [36.80, -119.71]</b>                      |                    |                      |                        |                           |
|  | 01/09/17 03:12 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 03:12 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding at intersection of Minnewawa Avenue and Norwich Road in Clovis.  |                    |                      |                        |                           |
| <b>MARIPOSA COUNTY --- 0.8 NE MT BULLION [37.51, -120.04], 0.6 N MT BULLION [37.51, -120.05], 0.3 NE MT BULLION [37.50, -120.05], 0.8 ENE MT BULLION [37.51, -120.04]</b>        |                    |                      |                        |                           |
|  | 01/09/17 03:13 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 03:13 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported mud covering most of southbound lane of Highway 49 near Mt. Bullion Cutoff Road in Mt. Bullion.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 0.9 NW THREE RIVERS [36.44, -118.91], 1.0 WNW THREE RIVERS [36.44, -118.92], 0.4 WNW THREE RIVERS [36.43, -118.91], 0.7 N THREE RIVERS [36.44, -118.90]</b> |                    |                      |                        |                           |
|  | 01/09/17 05:18 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/09/17 05:18 PST |                      | 0                      | Source: Law Enforcement   |

## Storm Data and Unusual Weather Phenomena - January 2017

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

California Highway Patrol reported flooding on Highway 198 and water flowing over Airport Drive and Upper North Fork bridges in Three Rivers.

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**FRESNO COUNTY --- 0.9 SW TOLLHOUSE [37.01, -119.41], 1.4 SW TOLLHOUSE [37.00, -119.42], 1.4 S TOLLHOUSE [37.00, -119.40], 0.7 S TOLLHOUSE [37.01, -119.40]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/09/17 06:23 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/09/17 06:23 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported small rockslides on Tollhouse Road near Lodge Road south of Tollhouse due to heavy rain.

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**FRESNO COUNTY --- 4.2 N HURON [36.26, -120.10], 4.3 N HURON [36.26, -120.11], 3.5 N HURON [36.25, -120.11], 3.6 N HURON [36.25, -120.10]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/09/17 08:19 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/09/17 08:19 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported roadway flooding on Highway 269 near Highway 198 north of Huron.

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**KERN COUNTY --- 0.6 W DI GIORGIO [35.25, -118.84], 0.9 W DI GIORGIO [35.25, -118.85], 1.0 WNW DI GIORGIO [35.25, -118.85], 0.7 WNW DI GIORGIO [35.26, -118.84]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/09/17 08:36 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/09/17 08:36 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported flooded roadway at Di Giorgio Road and Comanche Drive and vehicles blocking roadway due to flooding east of Lamont.

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**KERN COUNTY --- 0.6 E KERNVILLE [35.75, -118.42], 0.9 NE KERNVILLE [35.76, -118.42], 0.8 NNE KERNVILLE [35.76, -118.42], 0.4 ESE KERNVILLE [35.75, -118.42]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/09/17 11:32 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/09/17 11:32 PST | 0 |  | Source: Broadcast Media   |

Broadcast Media reported through twitter a picture of Kern River Overflowing near Kernville.

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**KERN COUNTY --- 2.3 SSW MAGUNDEN [35.34, -118.92], 2.1 SSW MAGUNDEN [35.34, -118.91], 1.8 NNE LAMONT [35.30, -118.91], 1.8 N LAMONT [35.30, -118.92]**

|  |                    |   |  |                                |
|--|--------------------|---|--|--------------------------------|
|  | 01/09/17 11:35 PST | 0 |  | Flood (due to Heavy Rain)      |
|  | 01/09/17 11:35 PST | 0 |  | Source: Department of Highways |

Caltrans District 6 reported that Weedpatch Highway between Redbank Road and Panama Lane southeast of Bakersfield was closed due to flooding.

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**FRESNO COUNTY --- 1.7 N HURON [36.22, -120.10], 1.7 NNW HURON [36.22, -120.11], 3.0 N HURON [36.24, -120.11], 3.0 N HURON [36.24, -120.10]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/09/17 12:19 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/09/17 12:19 PST | 0 |  | Source: Broadcast Media   |

Broadcast Media reported through Twitter a video showing road flooding on Lassen Avenue between Mitchell Avenue and Marmon Avenue north of Huron.

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**KERN COUNTY --- 11.2 NNE LOST HILLS [35.76, -119.58], 11.3 NNE LOST HILLS [35.76, -119.58], 11.4 NNE LOST HILLS [35.76, -119.58], 11.3 NNE LOST HILLS [35.76, -119.58]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/10/17 07:49 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/10/17 07:49 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported road flooding on Garces Highway near Corcoran Road/ Dairy Avenue just east of Kern Wildlife Refuge northeast of Lost Hills.

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**FRESNO COUNTY --- 1.5 NNE MEADOW LAKES [37.10, -119.42], 1.4 NNE MEADOW LAKES [37.10, -119.42], 1.4 NNE MEADOW LAKES [37.10, -119.42], 1.5 NNE MEADOW LAKES [37.10, -119.42]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/10/17 16:20 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/10/17 16:20 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported road flooding on Usfs Road near Acorn Road north of Meadow Lakes.

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**FRESNO COUNTY --- 4.2 N HURON [36.26, -120.10], 4.3 N HURON [36.26, -120.11], 3.8 N HURON [36.25, -120.11], 3.6 N HURON [36.25, -120.10]**

|  |                    |   |  |                           |
|--|--------------------|---|--|---------------------------|
|  | 01/11/17 07:12 PST | 0 |  | Flood (due to Heavy Rain) |
|  | 01/11/17 07:12 PST | 0 |  | Source: Law Enforcement   |

California Highway Patrol reported road closure of Highway 269 near Highway 198 north of Huron.

## Storm Data and Unusual Weather Phenomena - January 2017

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details           |
|--|--------------------|----------------------|------------------------|----------------------------------|
| <b>MERCED COUNTY --- 2.8 NW GUSTINE [37.28, -121.04], 1.1 W GUSTINE ARPT [37.27, -120.99], 3.0 NNW GUSTINE ARPT [37.31, -121.00], 3.9 NNW GUSTINE [37.30, -121.03]</b>   |                    |                      |                        |                                  |
|  | 01/11/17 08:00 PST |                      | 0                      | Flood (due to Dam / Levee Break) |
|  | 01/11/17 08:00 PST |                      | 0                      | Source: Emergency Manager        |
| Merced Emergency Manager reports numerous road closures between Gustine and Newman due to broken levee along Garza Creek.  |                    |                      |                        |                                  |
| <b>MADERA COUNTY --- 4.3 NE ONEALS [37.17, -119.64], 3.6 NE ONEALS [37.16, -119.65], 3.8 ENE ONEALS [37.16, -119.64], 4.5 NE ONEALS [37.17, -119.63]</b>   |                    |                      |                        |                                  |
|  | 01/11/17 08:05 PST |                      | 0                      | Flood (due to Heavy Rain)        |
|  | 01/11/17 08:05 PST |                      | 0                      | Source: Law Enforcement          |
| California Highway Patrol reported mud covering southbound lanes of Road 200 near House Ranch Road southwest of Fine Gold.   |                    |                      |                        |                                  |
| <b>MARIPOSA COUNTY --- 0.9 SW EL PORTAL [37.67, -119.79], 0.9 WSW EL PORTAL [37.67, -119.79], 0.4 SW EL PORTAL [37.68, -119.78], 0.5 SSW EL PORTAL [37.67, -119.78]</b>  |                    |                      |                        |                                  |
|  | 01/11/17 08:31 PST |                      | 0                      | Flood (due to Heavy Rain)        |
|  | 01/11/17 08:31 PST |                      | 0                      | Source: Law Enforcement          |
| California Highway Patrol reported large boulders blocking westbound lane of Highway 140 near El Portel just west of Yosemite National Park entrance.  |                    |                      |                        |                                  |
| <b>A series of systems fed by a continued influx of very moist air was pushed into the central California interior through an atmospheric river set-up for several days. This created high snow levels between 9,000-10,000 feet and heavy rainfall for a majority of the San Joaquin Valley County Warning Area which in turn created flooding and flash flooding of area rivers, streams, and water supply canals. Also debris flows, rock slides, and road ponding/flooding was reported.</b> |                    |                      |                        |                                  |
| <b>(CA-Z095) KERN CTY MTNS, (CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS</b>   |                    |                      |                        |                                  |
|  | 01/10/17 08:00 PST |                      | 0                      | Heavy Snow                       |
|  | 01/12/17 08:00 PST |                      | 0                      |                                  |
| <b>Moist air was pushed into the central California interior from an atmospheric river influx was coupled with a colder low pressure system that moved into central California bringing lower snow levels and heavy snowfall to parts of the Sierra Nevada and Kern County Mountains.</b>  |                    |                      |                        |                                  |
| <b>FRESNO COUNTY --- 2.3 WNW GLORIETTA [36.86, -119.71]</b>  |                    |                      |                        |                                  |
|  | 01/12/17 06:00 PST |                      | 0                      | Heavy Rain                       |
|  | 01/12/17 06:00 PST |                      | 0                      | Source: Trained Spotter          |
| Trained spotter report of 24 hour rainfall total of 0.66 inches in Clovis.   |                    |                      |                        |                                  |
| <b>FRESNO COUNTY --- CLOVIS [36.82, -119.70], 0.1 W CLOVIS [36.82, -119.70], 0.2 SSW CLOVIS [36.82, -119.70], 0.1 S CLOVIS [36.82, -119.70]</b>  |                    |                      |                        |                                  |
|  | 01/12/17 12:22 PST |                      | 0                      | Flood (due to Heavy Rain)        |
|  | 01/12/17 12:22 PST |                      | 0                      | Source: Public                   |
| Public reported via Facebook of street flooding approximately 2 to 3 feet deep in Clovis.  |                    |                      |                        |                                  |
| <b>FRESNO COUNTY --- 0.9 SW TARPEY [36.77, -119.68], 1.0 E (FAT) AIR TERMINAL [36.77, -119.70], 0.4 NNW LAS PALMAS [36.76, -119.70], 0.5 NW SUNNYSIDE [36.75, -119.68]</b>   |                    |                      |                        |                                  |
|  | 01/12/17 13:20 PST |                      | 0                      | Flood (due to Heavy Rain)        |
|  | 01/12/17 13:20 PST |                      | 0                      | Source: Public                   |
| Public report of standing water from heavy rain along Fowler Avenue and other nearby neighborhoods in Fresno.  |                    |                      |                        |                                  |
| <b>FRESNO COUNTY --- MELVIN [36.82, -119.67], 0.4 W MELVIN [36.82, -119.68], 0.5 SW MELVIN [36.81, -119.68], 0.4 S MELVIN [36.81, -119.67]</b>   |                    |                      |                        |                                  |
|  | 01/12/17 13:54 PST |                      | 0                      | Flood (due to Heavy Rain)        |
|  | 01/12/17 13:54 PST |                      | 0                      | Source: Broadcast Media          |
| Broadcast Media reports road flooding due to heavy rainfall near intersection of Barstow Avenue and Armstrong Avenue in Clovis.  |                    |                      |                        |                                  |
| <b>FRESNO COUNTY --- 0.5 NW MELVIN [36.82, -119.68], 0.3 NNE MELVIN [36.82, -119.67], 0.5 S MELVIN [36.81, -119.67], 0.8 SW MELVIN [36.81, -119.68]</b>  |                    |                      |                        |                                  |



## Storm Data and Unusual Weather Phenomena - January 2017

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details    |
|----------|--------------------|-------------------|---------------------|---------------------------|
|          | 01/12/17 14:00 PST |                   | 0                   | Flood (due to Heavy Rain) |
|          | 01/12/17 14:00 PST |                   | 0                   | Source: Public            |

Public reported road closures due to road flooding near Armstrong Avenue and Bullard Avenue in Clovis.

**FRESNO COUNTY --- 0.5 NE MINKLER [36.72, -119.46], 1.4 ENE MINKLER [36.73, -119.45], 1.3 ESE MINKLER [36.71, -119.45], 0.9 SSE MINKLER [36.71, -119.47]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 01/12/17 15:04 PST | 0 | Flash Flood (due to Heavy Rain) |
| 01/12/17 15:04 PST | 0 | Source: Law Enforcement         |

California Highway Patrol reported about a foot of water across all lanes on Highway 180 near Reed Avenue near Minkler.

**MADERA COUNTY --- 0.7 S MADERA [36.96, -120.07]**

|                    |   |                |
|--------------------|---|----------------|
| 01/12/17 15:37 PST | 0 | Funnel Cloud   |
| 01/12/17 15:37 PST | 0 | Source: Public |

Public report on social media with a photo of a funnel cloud in Madera.

**FRESNO COUNTY --- HERNDON [36.83, -119.92]**

|                    |   |                |
|--------------------|---|----------------|
| 01/12/17 15:38 PST | 0 | Funnel Cloud   |
| 01/12/17 15:38 PST | 0 | Source: Public |

Public reported a brief funnel cloud northwest of Fresno.

**MADERA COUNTY --- 0.6 W RIPPERDAN [36.85, -120.06]**

|                    |   |                         |
|--------------------|---|-------------------------|
| 01/12/17 15:59 PST | 0 | Funnel Cloud            |
| 01/12/17 15:59 PST | 0 | Source: Law Enforcement |

Law enforcement reported a report from the public of a funnel cloud near Avenue 7 on Highway 145.

**A series of systems fed by a continued influx of very moist air was pushed into the central California interior through an atmospheric river set-up for several days prior and a colder low pressure system moved into central California. This created thunderstorms that produced heavy rainfall for parts of the San Joaquin Valley. Reports of road ponding/flooding was reported along with a few reports of funnel clouds.**

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

|                    |   |            |
|--------------------|---|------------|
| 01/18/17 08:00 PST | 0 | Heavy Snow |
| 01/20/17 08:00 PST | 0 |            |

**(CA-Z095) KERN CTY MTNS**

|                    |   |                |
|--------------------|---|----------------|
| 01/18/17 18:04 PST | 0 | Winter Weather |
| 01/18/17 18:04 PST | 0 |                |

**Cold low pressure system moved into central California bringing heavy snowfall to parts of the Sierra Nevada and the Sierra Foothills along with wintry weather in the Kern County Mountains.**

**KINGS COUNTY --- 1.6 S AVENAL [35.98, -120.13], 1.4 SE AVENAL [35.98, -120.11], 3.0 SSE AVENAL [35.96, -120.10], 2.9 SSE AVENAL [35.96, -120.11]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/18/17 18:08 PST | 0 | Flood (due to Heavy Rain) |
| 01/18/17 18:08 PST | 0 | Source: Law Enforcement   |

California Highway Patrol reported a road closure due to roadway flooding on State Route 33.

**MERCED COUNTY --- 2.4 NNE WINTON [37.41, -120.60], 2.6 NNE WINTON [37.41, -120.60], 2.9 NNE WINTON [37.42, -120.59], 2.3 NE WINTON [37.41, -120.60]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 01/18/17 19:09 PST | 0 | Flood (due to Heavy Rain) |
| 01/18/17 19:09 PST | 0 | Source: Law Enforcement   |

California Highway Patrol reported roadway flooding on Mercedes Avenue and Shafer Road northeast of Winton.

**MARIPOSA COUNTY --- 1.6 E ELLIOTT CORNER [37.47, -119.74]**

## Storm Data and Unusual Weather Phenomena - January 2017

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details    |
|---|--------------------|----------------------|------------------------|---------------------------|
|   | 01/20/17 07:00 PST |                      | 0                      | Heavy Rain                |
|   | 01/20/17 07:00 PST |                      | 0                      | Source: Trained Spotter   |
| Trained Spotter reported a 24 hour rainfall report of 1.14 inches near Ponderosa Basin in Mariposa County.  |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>MERCED COUNTY --- 3.5 N SNELLING [37.57, -120.43], 2.7 N SNELLING [37.56, -120.43], 2.7 NNE SNELLING [37.56, -120.42], 4.0 N SNELLING [37.58, -120.42]</b>                             | 01/20/17 10:32 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 10:32 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on La Grange Road near Fields Road north of Snelling.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 4.2 S MONOLITH [35.06, -118.36], 4.3 SE TEHACHAPI MTN VLY AP [35.05, -118.37], 4.9 W CREAL [35.04, -118.36], 4.3 WNW CREAL [35.05, -118.34]</b>                        | 01/20/17 11:08 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 11:08 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Tehachapi Willow Springs Road near Oak Creek Road southeast of Tehachapi.  |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- BEALVILLE [35.27, -118.63], 0.8 SW BEALVILLE [35.26, -118.64], 0.7 SSE BEALVILLE [35.26, -118.63], 0.3 E BEALVILLE [35.27, -118.62]</b>                                | 01/20/17 11:10 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 11:10 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Bealville Road near Highway 58 south of Bealville.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 1.8 NW CANTIL [35.32, -117.99], 1.9 WNW CANTIL [35.31, -118.00], 0.2 NNW CANTIL [35.30, -117.97], 1.8 N CANTIL [35.33, -117.97]</b>                                    | 01/20/17 12:10 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 12:10 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported Highway 14 was closed near Redrock Randsburg Road due to flooding near Cantil.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 0.6 E CAWELO [35.50, -119.16], 0.3 E CAWELO [35.50, -119.17], 0.6 ESE CAWELO [35.50, -119.16], 0.6 E CAWELO [35.50, -119.16]</b>                                       | 01/20/17 12:12 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 12:12 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported State Route 99 offramp at Lerdo Road was flooded in Bakersfield.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 2.1 NNW DI GIORGIO [35.28, -118.84], 2.2 NNW DI GIORGIO [35.28, -118.85], 2.6 NNW DI GIORGIO [35.28, -118.85], 2.3 N DI GIORGIO [35.28, -118.84]</b>                   | 01/20/17 12:35 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 12:35 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Mountain View Road near Comanche Drive northeast of Lamont Road.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 5.7 NW PANOCHE JCT [36.61, -120.55], 5.6 NW PANOCHE JCT [36.60, -120.56], 5.0 NW PANOCHE JCT [36.60, -120.55], 5.5 NW PANOCHE JCT [36.61, -120.55]</b>               | 01/20/17 12:40 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 12:40 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Hudson Avenue near Manning Road southeast of Chaney Ranch.   |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 1.8 ESE EDISON [35.34, -118.84], 1.9 ESE EDISON [35.34, -118.84], 1.6 ESE EDISON [35.34, -118.84], 1.7 ESE EDISON [35.34, -118.84]</b>                                 | 01/20/17 13:07 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 13:07 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Edison Highway near Comanche Road east of Edison.  |                    |                      |                        |                           |
| <hr/>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 0.6 E BAKERSFIELD EAST [35.37, -118.97], 0.5 E BAKERSFIELD EAST [35.37, -118.97], 0.5 E BAKERSFIELD EAST [35.37, -118.97], 0.6 E BAKERSFIELD EAST [35.37, -118.97]</b> | 01/20/17 13:23 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 13:23 PST |                      | 0                      | Source: Law Enforcement   |

## Storm Data and Unusual Weather Phenomena - January 2017

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details    |
|---|--------------------|----------------------|------------------------|---------------------------|
| California Highway Patrol reported roadway flooding on Chamberlain Avenue near Harold Way east of Bakersfield.  |                    |                      |                        |                           |
| <b>KERN COUNTY --- 1.5 SSW MAGUNDEN [35.35, -118.91], 1.4 SSW MAGUNDEN [35.35, -118.91], 1.4 SSW MAGUNDEN [35.35, -118.91], 1.5 SSW MAGUNDEN [35.35, -118.91]</b>               |                    |                      |                        |                           |
|   | 01/20/17 14:24 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 14:24 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Kimber Avenue near Highway 58 southeast of Algozo.   |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 6.2 SE CANTUA CREEK [36.43, -120.25], 6.2 SE CANTUA CREEK [36.43, -120.25], 6.5 SE CANTUA CREEK [36.43, -120.25], 6.3 SE CANTUA CREEK [36.43, -120.25]</b> |                    |                      |                        |                           |
|   | 01/20/17 15:18 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 15:18 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported Mt Whitney Avenue closed near Sonoma Avenue due to flooding west of Five Points.   |                    |                      |                        |                           |
| <b>MERCED COUNTY --- 2.4 NNE LOS BANOS [37.10, -120.83], 2.3 NNE LOS BANOS [37.10, -120.83], 2.2 NNE LOS BANOS [37.10, -120.83], 2.4 NNE LOS BANOS [37.10, -120.83]</b>         |                    |                      |                        |                           |
|   | 01/20/17 15:19 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 15:19 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported half of Henry Miller Avenue was flooded west of State Route 165 north of Los Banos.  |                    |                      |                        |                           |
| <b>KERN COUNTY --- 3.9 W BUTTONWILLOW [35.40, -119.54], 3.9 W BUTTONWILLOW [35.39, -119.54], 3.5 W BUTTONWILLOW [35.40, -119.53], 3.8 W BUTTONWILLOW [35.40, -119.54]</b>       |                    |                      |                        |                           |
|   | 01/20/17 16:45 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 16:45 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Lokern Road near Highway 58 west of Buttonwillow.  |                    |                      |                        |                           |
| <b>MERCED COUNTY --- 1.8 SW LIVINGSTON [37.36, -120.74], 2.0 SW LIVINGSTON [37.36, -120.74], 1.8 SW LIVINGSTON [37.36, -120.74], 1.7 SW LIVINGSTON [37.36, -120.74]</b>         |                    |                      |                        |                           |
|   | 01/20/17 17:38 PST |                      | 0                      | Flood (due to Heavy Rain) |
|   | 01/20/17 17:38 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported 6 to 8 inches of water on Westside Boulevard near Robin Avenue southwest of Livingston.  |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 1.3 ESE MELVIN [36.81, -119.65]</b>  |                    |                      |                        |                           |
|   | 01/21/17 08:00 PST |                      | 0                      | Heavy Rain                |
|   | 01/21/17 08:00 PST |                      | 0                      | Source: Trained Spotter   |
| Trained Spotter reported a 24 hour rainfall total of 0.25 inches near Clovis in Fresno County.  |                    |                      |                        |                           |
| <b>MARIPOSA COUNTY --- 1.6 E ELLIOTT CORNER [37.47, -119.74]</b>  |                    |                      |                        |                           |
|   | 01/21/17 08:15 PST |                      | 0                      | Heavy Rain                |
|   | 01/21/17 08:15 PST |                      | 0                      | Source: Trained Spotter   |
| Trained Spotter reported a 24 hour rainfall total of 2.04 inches near Ponderosa Basin in Mariposa County.   |                    |                      |                        |                           |
| <b>KINGS COUNTY --- 0.9 SW CIMARRON [36.29, -119.79]</b>  |                    |                      |                        |                           |
|   | 01/21/17 08:19 PST |                      | 0                      | Heavy Rain                |
|   | 01/21/17 08:19 PST |                      | 0                      | Source: Trained Spotter   |
| Trained Spotter reported a 24 hour rainfall total of 0.45 inches near Lemoore in Kings County.  |                    |                      |                        |                           |
| <b>MADERA COUNTY --- 0.7 S CHOWCHILLA ARPT [37.11, -120.25]</b>   |                    |                      |                        |                           |
|   | 01/21/17 08:23 PST |                      | 0                      | Heavy Rain                |
|   | 01/21/17 08:23 PST |                      | 0                      | Source: Public            |
| Public report of a 24 hour rainfall total of 0.11 inches near Chowchilla in Madera County.  |                    |                      |                        |                           |

## Storm Data and Unusual Weather Phenomena - January 2017

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details    |
|--|--------------------|----------------------|------------------------|---------------------------|
| <b>KERN COUNTY --- 3.6 NE LAKE ISABELLA [35.64, -118.41], 3.7 NE LAKE ISABELLA [35.64, -118.41], 3.7 NE LAKE ISABELLA [35.64, -118.41], 3.5 NE LAKE ISABELLA [35.64, -118.41]</b>  |                    |                      |                        |                           |
|  | 01/22/17 16:46 PST |                      | 0.15M                  | Flood (due to Heavy Rain) |
|  | 01/22/17 16:46 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported Lynch Canyon Road with 1 to 2 inches of roadway flooding near State Route 178 in Mountain Mesa.   |                    |                      |                        |                           |
| <b>FRESNO COUNTY --- 0.7 S SHAVER LAKE HGTS [37.09, -119.32], 0.7 N OCKENDEN [37.09, -119.32], 0.7 NNE OCKENDEN [37.09, -119.32], 0.7 NNE OCKENDEN [37.09, -119.32]</b>  |                    |                      |                        |                           |
|  | 01/22/17 16:48 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/22/17 16:48 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported road flooding on Crest Point Lane near Ockenden Ranch Road in Ockenden.   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 7.6 S HAVILAH [35.41, -118.52], 7.6 S HAVILAH [35.41, -118.53], 7.3 S HAVILAH [35.41, -118.53], 7.2 S HAVILAH [35.42, -118.52]</b>  |                    |                      |                        |                           |
|  | 01/22/17 16:49 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/22/17 16:49 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Johns Road near Williams Road south of Havilah.   |                    |                      |                        |                           |
| <b>A nearly stationary cold low pressure system from the Pacific Northwest moved into central California and tropical moisture being fed from the Pacific with a continued atmospheric river set-up, brought thunderstorms and heavy rainfall to the Sierra Nevada Mountains and Foothills and parts of the San Joaquin Valley over several days. Small pea-sized hail was also reported with some of the thunderstorms.</b> |                    |                      |                        |                           |
| <b>(CA-Z093) S SIERRA FOOTHILLS, (CA-Z095) KERN CTY MTNS, (CA-Z096) S SIERRA MTNS, (CA-Z097) TULARE CTY MTNS</b>   |                    |                      |                        |                           |
|  | 01/20/17 08:00 PST |                      | 0                      | Heavy Snow                |
|  | 01/24/17 08:00 PST |                      | 0                      |                           |
| <b>(CA-Z093) S SIERRA FOOTHILLS</b>  |                    |                      |                        |                           |
|  | 01/23/17 07:04 PST |                      | 0                      | Winter Weather            |
|  | 01/23/17 07:04 PST |                      | 0                      |                           |
| <b>Cold low pressure system moved into central California bringing heavy snowfall to parts of the Sierra Nevada and Kern County Mountains along with wintry weather to the Sierra Foothills.</b>   |                    |                      |                        |                           |
| <b>(CA-Z091) SW S.J. VALLEY, (CA-Z095) KERN CTY MTNS</b>   |                    |                      |                        |                           |
|  | 01/22/17 04:13 PST |                      | 2K                     | High Wind (MAX 94 kt)     |
|  | 01/23/17 02:32 PST |                      | 0                      |                           |
| <b>A final storm system in a series of systems moved through central California bringing strong gusty winds to parts of the San Joaquin Valley and Kern County Mountain areas.</b>   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 1.1 W CANTIL [35.30, -117.99], 0.8 W CANTIL [35.30, -117.98], 0.8 WNW CANTIL [35.30, -117.98], 1.1 W CANTIL [35.30, -117.99]</b>  |                    |                      |                        |                           |
|  | 01/23/17 05:36 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 05:36 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding near Neurailia Road and Rogers Road just southwest of Cantil.  |                    |                      |                        |                           |
| <b>MADERA COUNTY --- 0.7 S CHOWCHILLA ARPT [37.11, -120.25]</b>  |                    |                      |                        |                           |
|  | 01/23/17 08:00 PST |                      | 0                      | Heavy Rain                |
|  | 01/23/17 08:00 PST |                      | 0                      | Source: Trained Spotter   |
| Trained spotteer report of measured 24 hour rainfall total of 0.45 inches in Chowchilla.   |                    |                      |                        |                           |
| <b>KERN COUNTY --- 0.4 ESE LAMONT [35.27, -118.91], 0.4 SE LAMONT [35.27, -118.91], 0.5 ESE LAMONT [35.27, -118.91], 0.5 ESE LAMONT [35.27, -118.91]</b>   |                    |                      |                        |                           |
|  | 01/23/17 08:25 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 08:25 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported road flooding at the intersection of Panama Road and Velma Avenue in Lamont.  |                    |                      |                        |                           |

## Storm Data and Unusual Weather Phenomena - January 2017

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details    |
|--|--------------------|----------------------|------------------------|---------------------------|
| <b>MADERA COUNTY --- 3.4 WSW ONEALS [37.12, -119.76]</b>   |                    |                      |                        |                           |
|  | 01/23/17 09:00 PST |                      | 0                      | Heavy Rain                |
|  | 01/23/17 09:00 PST |                      | 0                      | Source: Trained Spotter   |
| Trained spotter report of measured 24 hour rainfall total of 0.93 inches south of Yosemite Lakes.  |                    |                      |                        |                           |
| <b>MADERA COUNTY --- 8.2 ENE GREGG [36.92, -119.79], 8.3 ENE GREGG [36.92, -119.79], 8.5 ENE GREGG [36.92, -119.79], 8.4 ENE GREGG [36.92, -119.79]</b>  |                    |                      |                        |                           |
|  | 01/23/17 12:07 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 12:07 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported water flowing off of field and onto Avenue 12 north of Rolling Hills.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 1.5 SSW ELDERWOOD [36.45, -119.13], 1.6 SSW ELDERWOOD [36.45, -119.13], 1.4 W HILLMAID [36.45, -119.13], 1.4 SSW ELDERWOOD [36.45, -119.13]</b>   |                    |                      |                        |                           |
|  | 01/23/17 12:28 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 12:28 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding on Avenue 364 near Road 200 intersection south of Elderwood.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 0.9 NW CAMERON CREEK COLONY [36.33, -119.21], 0.8 WNW CAMERON CREEK COLONY [36.33, -119.21], 0.4 NW CAMERON CREEK COLONY [36.32, -119.20], 0.7 NNW CAMERON CREEK COLONY [36.33, -119.20]</b>  |                    |                      |                        |                           |
|  | 01/23/17 12:41 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 12:41 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding with 1 to 2 feet of water at off ramp of State Route 198 near Avenue 296 in Cameron Creek Colony area.   |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 1.7 W ELDERWOOD [36.47, -119.15], 1.7 W ELDERWOOD [36.47, -119.15], 2.1 WNW ELDERWOOD [36.48, -119.16], 2.4 W ELDERWOOD [36.47, -119.16]</b>  |                    |                      |                        |                           |
|  | 01/23/17 13:34 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 13:34 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding near State Route 201 and Piedra Avenue west of Elderwood.  |                    |                      |                        |                           |
| <b>KERN COUNTY --- 2.1 NNE RIBIER [35.28, -118.86], 2.1 NNE RIBIER [35.28, -118.86], 2.3 N RIBIER [35.28, -118.86], 2.4 NNE RIBIER [35.28, -118.86]</b>  |                    |                      |                        |                           |
|  | 01/23/17 13:53 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 13:53 PST |                      | 0                      | Source: Public            |
| Public reported roadway flooding near Malaga Road and Mountain View Road intersection due to runoff from nearby farm fields near Lamont in Kern County.  |                    |                      |                        |                           |
| <b>TULARE COUNTY --- 1.1 E STRATHMORE JCT [36.15, -119.00], 1.0 E STRATHMORE JCT [36.15, -119.00], 1.1 ENE STRATHMORE JCT [36.15, -119.00], 1.2 ENE STRATHMORE JCT [36.15, -119.00]</b>  |                    |                      |                        |                           |
|  | 01/23/17 14:54 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 14:54 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported mud in road from heavy rainfall near Road 256 and 7th Avenue east of Strathmore.  |                    |                      |                        |                           |
| <b>KERN COUNTY --- 2.6 ENE DELANO [35.79, -119.21], 2.3 NE DELANO [35.79, -119.22], 2.4 NE DELANO [35.79, -119.22], 2.7 ENE DELANO [35.79, -119.21]</b>  |                    |                      |                        |                           |
|  | 01/23/17 15:15 PST |                      | 0                      | Flood (due to Heavy Rain) |
|  | 01/23/17 15:15 PST |                      | 0                      | Source: Law Enforcement   |
| California Highway Patrol reported roadway flooding near Avenue O and Veneto Street in Delano.   |                    |                      |                        |                           |
| <b>Colder air moving behind a low pressure system allowed an increase in instability across the San Joaquin Valley which created thunderstorms with heavy rains. Heavy rains coupled with already saturated soils caused some flooding of roads and low lying areas.</b> |                    |                      |                        |                           |
| <b>(CA-Z090) E CENTRAL S.J. VALLEY, (CA-Z091) SW S.J. VALLEY, (CA-Z092) SE S.J. VALLEY</b>   |                    |                      |                        |                           |
|  | 01/29/17 02:30 PST |                      | 0.12M                  | Dense Fog                 |
|  | 01/31/17 11:55 PST |                      | 0                      |                           |

## Storm Data and Unusual Weather Phenomena - January 2017

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

High pressure with clearing skies over the region coupled with recent heavy precipitation created ideal conditions for dense nighttime and morning radiational fog to develop.