



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2002

| Location | Date | Time<br>Local/<br>Standard | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Number of<br>Persons<br>Killed | Injured | Estimated<br>Damage<br>Property | Crops | Character of Storm |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------|---------------------------------|-------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------|---------------------------------|-------|--------------------|

### CALIFORNIA, South Central

|            |  |                    |  |  |   |    |      |  |              |
|------------|--|--------------------|--|--|---|----|------|--|--------------|
| CAZ089>092 | W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley  |                    |  |  |   |    |      |  |              |
|            | 01   | 0250PST<br>1000PST |  |  | 0 | 0  |      |  | Fog          |
|            | Widespread fog in the San Joaquin Valley dropped driving visibilities to 300-500 feet with many airport sites less than 1/4SM visibility.  |                    |  |  |   |    |      |  |              |
| CAZ096     | S Sierra Mtns  |                    |  |  |   |    |      |  |              |
|            | 01<br>03   | 0400PST<br>0400PST |  |  | 0 | 0  |      |  | Winter Storm |
|            | At elevations greater than 7000 Feet M.S.L. up to 15" of snow fell in the Southern Sierra Nevada   |                    |  |  |   |    |      |  |              |
| CAZ095-095 | Kern Cty Mtns  |                    |  |  |   |    |      |  |              |
|            | 03   | 0913PST<br>1400PST |  |  | 1 | 15 | 830K |  | Fog          |
|            | Dense fog conditions east through south of Bakersfield and on the northern slopes of the Tehachapi Mountains led to instances of multi-vehicle accidents. At 15 miles east-southeast of Bakersfield on Highway 58 two event centers involved a total of 78 cars and trucks with one fatality and 15 injuries. Another case on Interstate-5 near Lebec involved 9 vehicles with unconfirmed reports of injuries but no fatalities. Visibility was reported less than 100 feet in the dense fog. M53VE |                    |  |  |   |    |      |  |              |
| CAZ092     | Se Sj Valley   |                    |  |  |   |    |      |  |              |
|            | 04   | 0015PST<br>0800PST |  |  | 0 | 0  |      |  | Fog          |
|            | Visibilities lowered to 200-500 feet along Highway 99 through most of the southeast San Joaquin Valley during the hours just before and around dawn.   |                    |  |  |   |    |      |  |              |
| CAZ089>092 | W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley  |                    |  |  |   |    |      |  |              |
|            | 06<br>12   | 2044PST<br>0600PST |  |  | 0 | 0  |      |  | Fog          |
|            | A typical weather event of an extended period of late night and early morning fog established itself in the Central and Southern San Joaquin Valley from late evening on the 6th through early in the morning of the 12th. On the evening of the 10th dense fog formed before 8 PM PST with visibilities ultimately lowering to 100 feet as reported by California Highway Patrol.   |                    |  |  |   |    |      |  |              |
| CAZ089>092 | W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley  |                    |  |  |   |    |      |  |              |
|            | 15<br>20   | 2100PST<br>0900PST |  |  | 0 | 0  |      |  | Extreme Cold |
|            | Another typical weather event of an extended period of a freeze threat and temperatures low enough to concern local agricultural interests occurred on the mornings of the 16th through the 20th. Overnight low temperatures did indeed confirm the freeze threat as readings dropped to the 26-30 degree F. range for the period. Agricultural interests were generally able to mitigate the cold with protection measures so no major crop damage was reported.                                    |                    |  |  |   |    |      |  |              |
| CAZ089>092 | W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley  |                    |  |  |   |    |      |  |              |
|            | 18<br>21   | 2330PST<br>1000PST |  |  | 0 | 0  |      |  | Fog          |
|            | For the mornings of the 19th through 21st, dense fog generally returned to the Central and Southern San Joaquin Valley (ending on the morning of the 20th as southeast wind dried the zone for the morning of the 21st). Combined with the dense fog on the morning of the 21st, overnight low temperatures dropped below the freezing mark as well making for treacherous road conditions with ice formation.   |                    |  |  |   |    |      |  |              |
| CAZ089>092 | W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley  |                    |  |  |   |    |      |  |              |
|            | 21   | 0130PST<br>0900PST |  |  | 0 | 0  |      |  | Cold         |
|            | Although some isolated readings less than 28 degrees F. occurred in the Central and South San Joaquin Valley on the morning of the 21st, overnight low temperatures were in the 28-32 degree F. range. As mentioned, in combination with dense fog, roadways were made slick with the combination of moisture and freezing temperatures in CA Zones 89-91.   |                    |  |  |   |    |      |  |              |



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2002

| Location | Date | Time<br>Local/<br>Standard | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Number of<br>Persons<br>Killed | Number of<br>Persons<br>Injured | Estimated<br>Damage<br>Property | Estimated<br>Damage<br>Crops | Character of Storm |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

### CALIFORNIA, South Central

**CAZ095-098>099**      **Kern Cty Mtns - Indian Wells Vly - Se Kern Cty Desert**

|    |         |  |  |  |   |   |  |  |             |
|----|---------|--|--|--|---|---|--|--|-------------|
| 22 | 0600PST |  |  |  | 0 | 0 |  |  | <b>Wind</b> |
|    | 1800PST |  |  |  |   |   |  |  |             |

Numerous meso-net weather reporting sites indicated gusty wind early on the 22nd. In the Kern Mountains sensors routinely reported 30-40 MPH sustained wind with gusts to 42 knots at Sandberg. In the Kern County Deserts Mojave had wind sustained at 40 knots with gusts to 50 knots while Government Peak had gusts to 55 MPH.

**CAZ089>092**      **W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley**

|    |         |  |  |  |   |   |  |  |                     |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 22 | 2300PST |  |  |  | 0 | 0 |  |  | <b>Extreme Cold</b> |
|    | 0900PST |  |  |  |   |   |  |  |                     |

Overnight low temperatures in the Central and Southern San Joaquin Valley citrus locations plunged to the 25-29 degree F. range causing widespread agricultural protective measures on the mornings of the 23rd and 24th. Some West Valley field crop locations had minimums in the mid 20s. It is likely some unreported damage occurred in the colder locations with such low temperatures but growers were generally successful in mitigating the effects of the sub-freezing temperatures. Although still sub-freezing, overnight low temperatures moderated upward 1-2 degrees F. on the morning of the 25th.

**CAZ096**      **S Sierra Mtns**

|    |         |  |  |  |   |   |  |  |                     |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 26 | 1100PST |  |  |  | 0 | 0 |  |  | <b>Winter Storm</b> |
|    | 1600PST |  |  |  |   |   |  |  |                     |

**CAZ097**      **Tulare Cty Mtns**

|    |         |  |  |  |   |   |  |  |             |
|----|---------|--|--|--|---|---|--|--|-------------|
| 26 | 2300PST |  |  |  | 0 | 0 |  |  | <b>Snow</b> |
|    | 0400PST |  |  |  |   |   |  |  |             |

A winter storm brought significant snow amounts to the Southern Sierra Nevada with lessor amounts in the Tulare County Mountains of Interior Central California: Bishop Pass at 11K Feet M.S.L. received 20" of snow, Agnew Pass at 9.5K Feet got 13" in 12 hours, and Big Meadows in the Tulare County Mountains received 10" of new snow.

**CAZ093>095**      **S Sierra Foothills - Tulare Cty Foothills - Kern Cty Mtns**

|    |         |  |  |  |   |   |  |  |             |
|----|---------|--|--|--|---|---|--|--|-------------|
| 28 | 0300PST |  |  |  | 0 | 0 |  |  | <b>Snow</b> |
|    | 1000PST |  |  |  |   |   |  |  |             |

**CAZ096>097**      **S Sierra Mtns - Tulare Cty Mtns**

|    |         |  |  |  |   |   |  |  |                     |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 28 | 0300PST |  |  |  | 0 | 0 |  |  | <b>Winter Storm</b> |
|    | 1000PST |  |  |  |   |   |  |  |                     |

Another in a series of storms swept through the high country of Central California. At the higher elevations of the Southern Sierra Nevada and Tulare County Mountains close to 20" of new snow fell in a little over a day. Poison Ridge in the S.Sierra Nevada and Big Meadows in the Tulare County Mountains reported 19" of new snow with several other high elevation locations at or above 15". At lower elevations 4-6" of new snow occurred, including the Tehachapi Mountains, which hindered travel on Highway 58 through Tehachapi Pass.

**CAZ099**      **Se Kern Cty Desert**

|    |         |  |  |  |   |   |  |  |             |
|----|---------|--|--|--|---|---|--|--|-------------|
| 28 | 1400PST |  |  |  | 0 | 0 |  |  | <b>Snow</b> |
|    | 2300PST |  |  |  |   |   |  |  |             |

The relative infrequent occurrence of light snow fell in the Mojave Desert on the 28th as an unseasonably cold air mass moved through the area. Trace amounts of snow were reported near Edwards AFB and in the higher terrain around California City.

**CAZ089>092**      **W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley**

|    |         |  |  |  |   |   |  |  |             |
|----|---------|--|--|--|---|---|--|--|-------------|
| 29 | 0409PST |  |  |  | 0 | 0 |  |  | <b>Snow</b> |
|    | 1015PST |  |  |  |   |   |  |  |             |

An exceptionally cold air mass swept into Interior Central California on the 28th. While not a large amount of associated low level moisture was present, what was available led to the infrequent occurrence of snow on the Central and Southern San Joaquin Valley floor. Trace reports of snow were reported at Los Banos, Madera, Hanford, McFarland, Shafter, and elsewhere in the S.J. Valley.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2002

| Location | Date | Time<br>Local/<br>Standard | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Number of<br>Persons |         | Estimated<br>Damage |       | Character of Storm |
|----------|------|----------------------------|---------------------------|--------------------------|----------------------|---------|---------------------|-------|--------------------|
|          |      |                            |                           |                          | Killed               | Injured | Property            | Crops |                    |

**CALIFORNIA, South Central**

CAZ089>092

W Central Sj Valley - E Central Sj Valley - Sw Sj Valley - Se Sj Valley

|    |         |   |   |  |                     |
|----|---------|---|---|--|---------------------|
| 29 | 2356PST | 0 | 0 |  | <b>Extreme Cold</b> |
| 31 | 2359PST |   |   |  |                     |

Following the reports of snow on the San Joaquin Valley floor and with cleared skies, residing cold air became a threat to local citrus growers. For the period from late January 29th through the morning of February 6th. During the mornings of the 30th and 31st of January, overnight low temperatures plunged to 24 to 30 degree F. range for all of the Central and Southern Valley. Growers had to actively protect citrus groves but no damage was reported.