

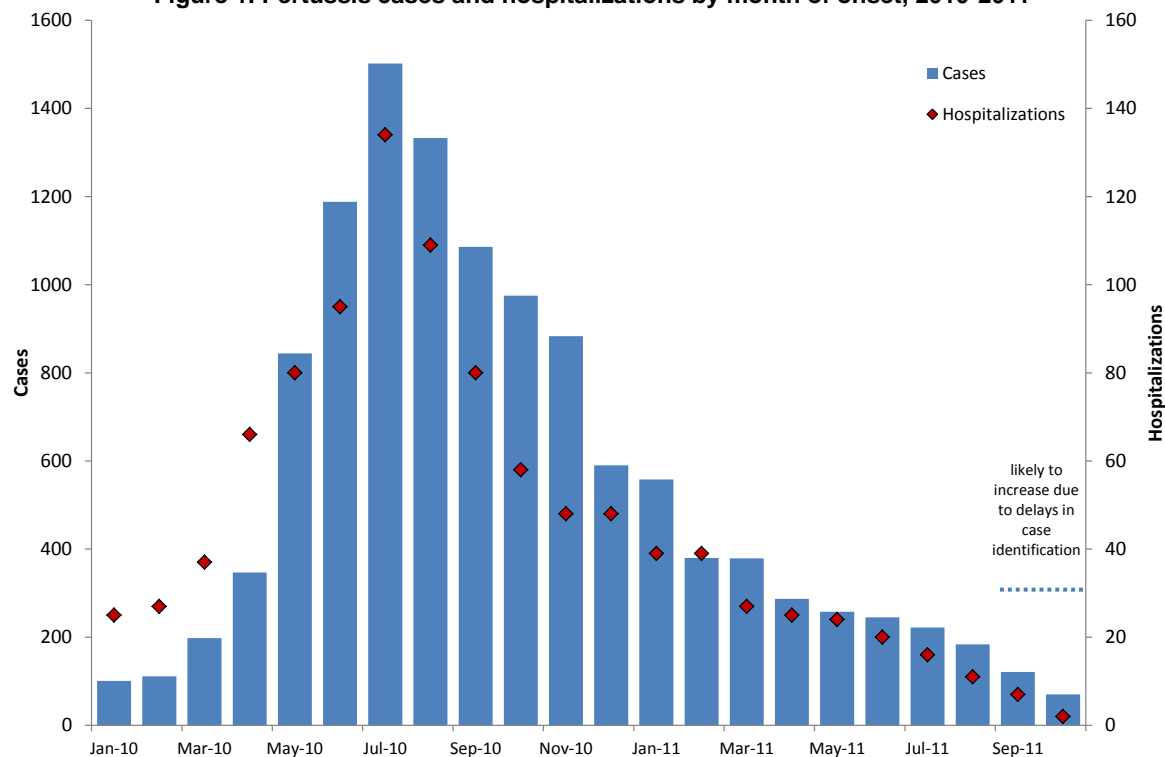


# Pertussis Report

November 10, 2011

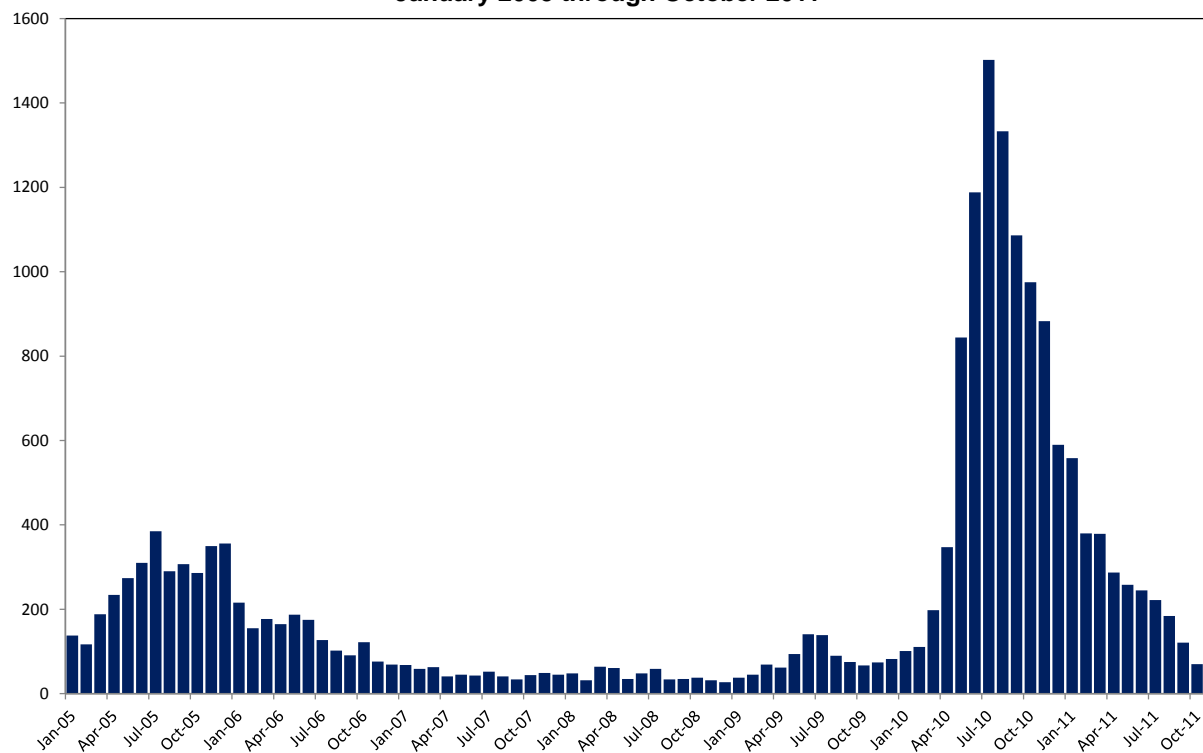
- **New in this report:** While disease activity in 2011 is still at relatively increased levels throughout the state, the number of new cases reported in recent months has declined.
- **2011: 2,734 cases with onset in 2011** have been reported to CDPH. The state rate is **6.9 cases/100,000**.
  - While disease activity in 2011 is still at relatively increased levels throughout the state, the number of new cases reported in recent months has declined (Figure 1).
  - 210 (9.4%) cases have been hospitalized (of 82% with complete data).
    - Most (162; 77%) were infants <6 months of age.
  - No deaths have been reported.
  - Cases have been reported from 52 (85%) of 61 local health jurisdictions.
  - 272 new cases have been reported since the last update on 9/15/2011.
- **2010: 9,146 cases with onset in 2010** have been reported to CDPH for a state rate of **23.4 cases/100,000**. This number has been adjusted from prior reports.
  - This is the most cases reported in 63 years when 9,394 cases were reported in 1947, a peak year, and the highest incidence in 52 years when a rate of 26.0 cases/100,000 was reported in 1958. Previously, the peak was in 2005 when there were 3,182 cases reported (Figure 3).
  - 808 (9%) cases were hospitalized
    - 445 (55%) of hospitalized cases were infants <3 months of age and 567 (70%) were infants <6 months of age.
    - 431 (76%) of the hospitalized infants <6 months of age with known race and ethnicity were Hispanic.
  - Ten deaths were reported; 9 (90%) were Hispanic infants. Nine fatalities were infants <2 months of age at time of disease onset and had not received any doses of pertussis-containing vaccine and the remainder was an ex-28 week preemie that was 2 months of age and had received the first dose of DTaP only 15 days prior to disease onset. The majority of infant cases in 2010 have occurred in infants <3 months of age (Figure 4).
    - The case-fatality rate among infants <3 months of age is 1.3%.
  - Case Classification:
    - Confirmed: 60%
    - Probable: 19%
    - Suspect: 21%

**Figure 1. Pertussis cases and hospitalizations by month of onset, 2010-2011\***



\*Includes cases reported to CDPH by 11/10/2011

**Figure 2. Pertussis cases by month of onset -- California, January 2005 through October 2011\***



\*Includes cases reported to CDPH by 11/10/2011

Figure 3. Number of reported pertussis cases by year of onset -- California, 1947-2011\*

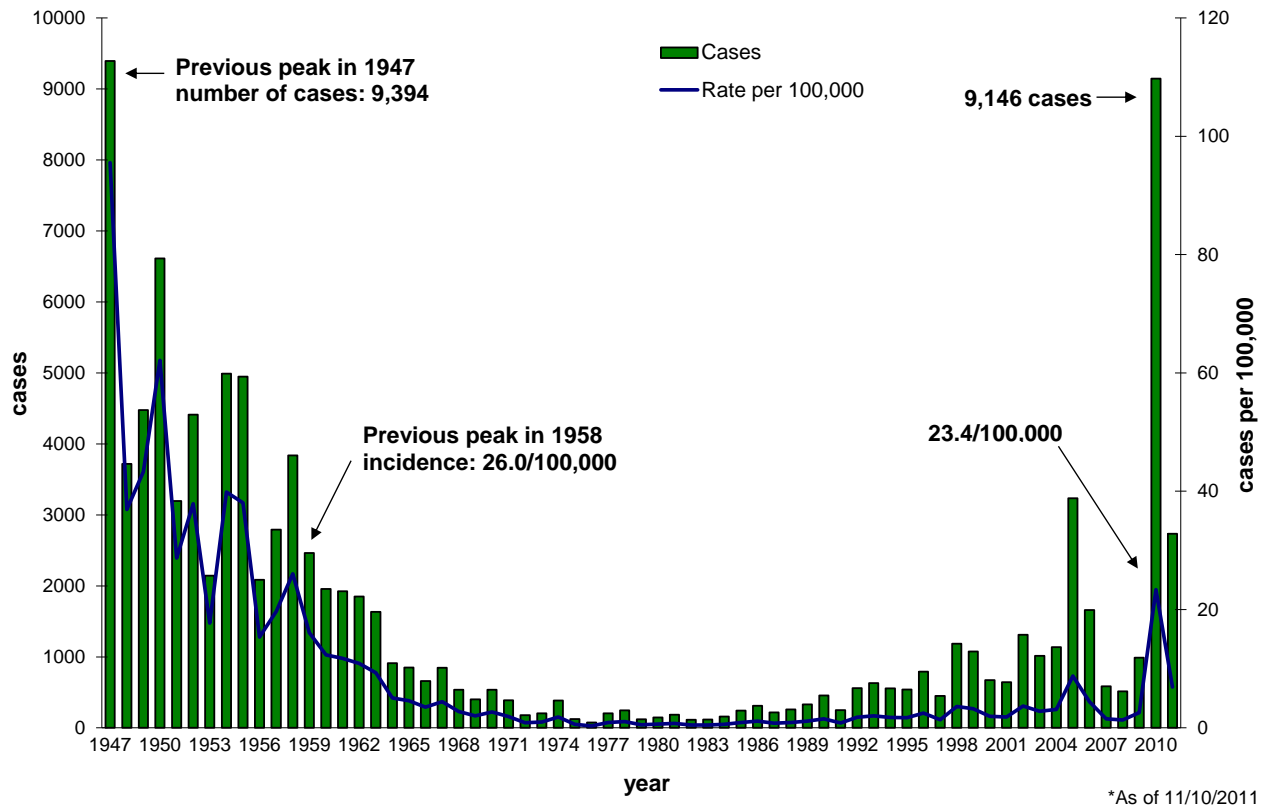
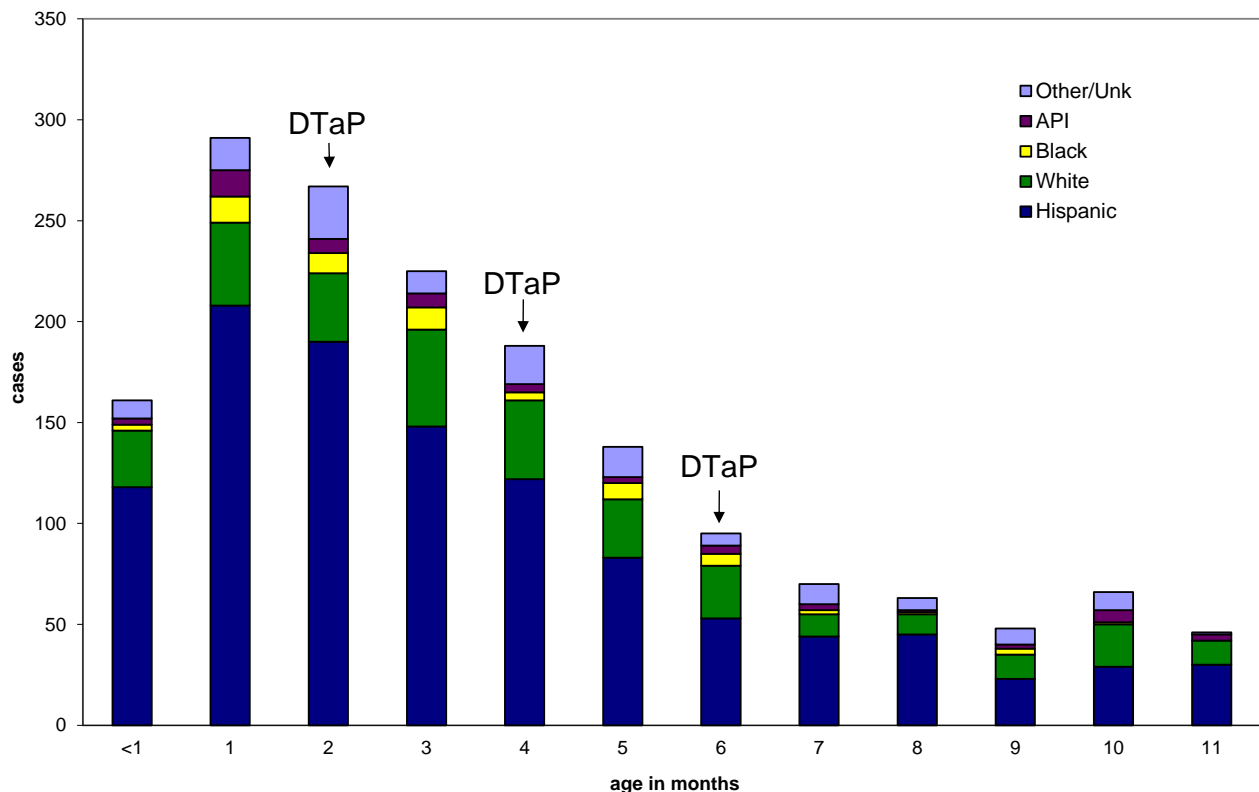
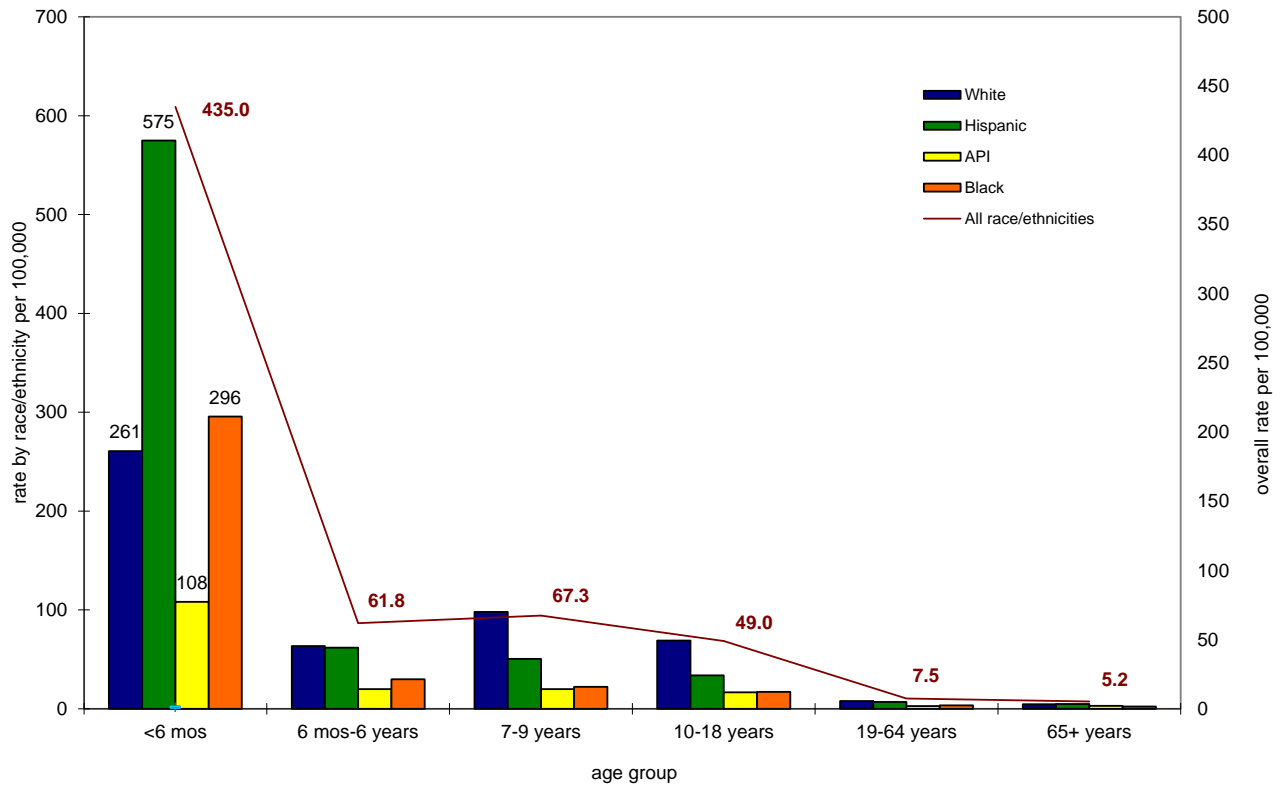


Figure 4. Infant pertussis cases by age in months -- California, 2010



**Figure 5. Pertussis rates by age and race/ethnicity -- California, 2010**



**Figure 6. Pertussis cases in children and adolescents aged 0-18 years, by vaccine history -- California, 2010**

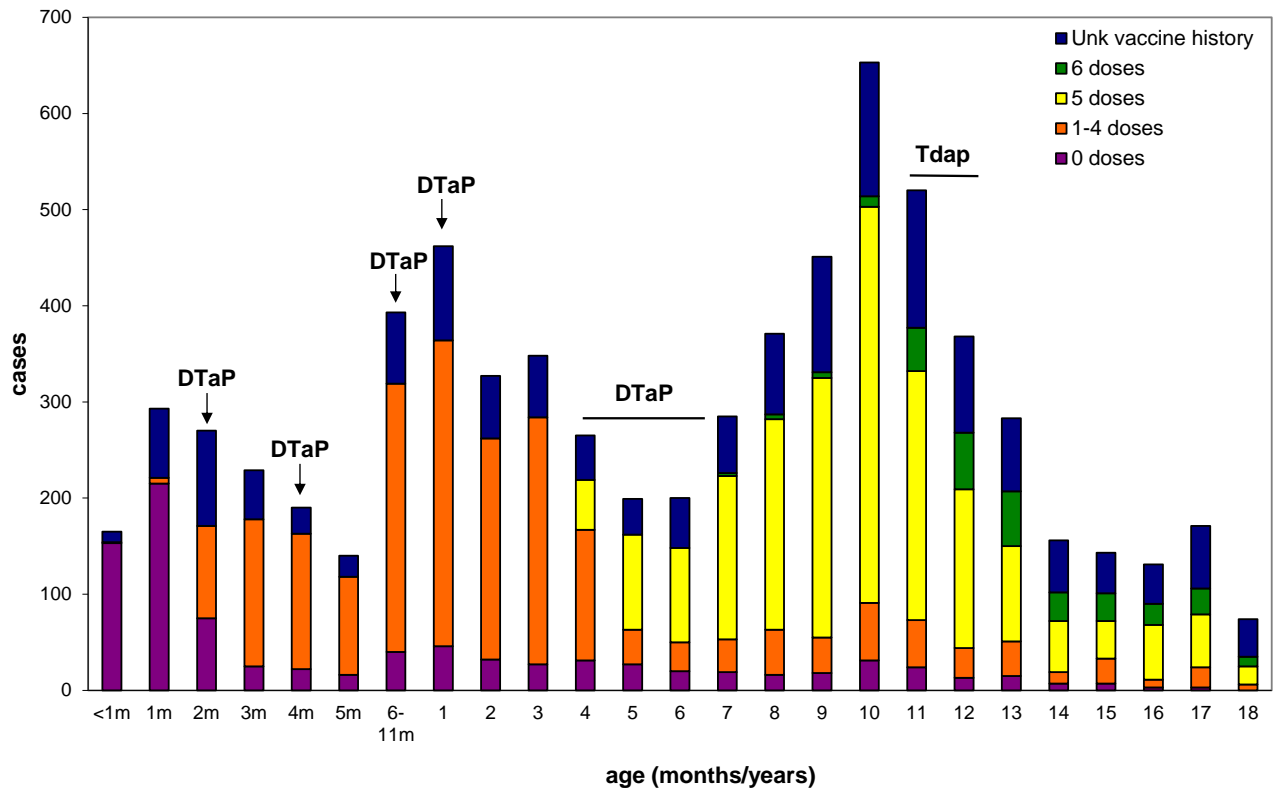


Table 1. Pertussis cases reported to CDPH by local health jurisdiction -- California, 2010-2011

|                     | 2010        |              | 2011*       |             |
|---------------------|-------------|--------------|-------------|-------------|
|                     | Cases       | Rate         | Cases       | Rate        |
| <b>CALIFORNIA</b>   | <b>9146</b> | <b>23.37</b> | <b>2734</b> | <b>6.22</b> |
| ALAMEDA             | 424         | 29.38        | 171         | 10.79       |
| City of Berkeley‡   | 13          | 12.13        | 3           | 2.80        |
| ALPINE              | 0           | 0.00         | 0           | 0.00        |
| AMADOR              | 4           | 9.92         | 13          | 31.66       |
| BUTTE               | 32          | 13.91        | 16          | 6.81        |
| CALAVERAS           | 9           | 18.85        | 4           | 8.23        |
| COLUSA              | 11          | 46.24        | 0           | 0.00        |
| CONTRA COSTA        | 205         | 19.05        | 102         | 7.88        |
| DEL NORTE           | 16          | 51.64        | 0           | 0.00        |
| EL DORADO           | 55          | 29.05        | 11          | 4.16        |
| FRESNO              | 550         | 55.92        | 54          | 5.18        |
| GLENN               | 1           | 3.24         | 1           | 3.17        |
| HUMBOLDT            | 59          | 43.77        | 14          | 7.38        |
| IMPERIAL            | 9           | 4.74         | 3           | 1.54        |
| INYO                | 8           | 41.70        | 0           | 0.00        |
| KERN                | 377         | 43.25        | 49          | 4.82        |
| KINGS               | 26          | 15.80        | 8           | 4.75        |
| LAKE                | 5           | 7.40         | 3           | 1.46        |
| LASSEN              | 1           | 2.64         | 0           | 0.00        |
| LOS ANGELES         | 1302        | 13.19        | 578         | 5.29        |
| City of Long Beach‡ | 68          | 13.80        | 14          | 2.44        |
| City of Pasadena‡   | 24          | 15.98        | 9           | 4.00        |
| MADERA              | 120         | 74.02        | 6           | 3.59        |
| MARIN               | 350         | 137.97       | 22          | 4.33        |
| MARIPOSA            | 10          | 52.33        | 1           | 5.16        |
| MENDOCINO           | 27          | 28.98        | 2           | 2.13        |
| MERCED              | 131         | 47.82        | 25          | 8.90        |
| MODOC               | 0           | 0.00         | 0           | 0.00        |
| MONO                | 19          | 128.09       | 2           | 13.22       |
| MONTEREY            | 132         | 30.47        | 35          | 6.63        |
| NAPA                | 25          | 17.51        | 11          | 7.60        |
| NEVADA              | 24          | 23.38        | 2           | 1.93        |
| ORANGE              | 499         | 15.46        | 131         | 3.44        |
| PLACER              | 50          | 14.39        | 18          | 4.79        |
| PLUMAS              | 2           | 9.16         | 5           | 9.12        |
| RIVERSIDE           | 469         | 20.95        | 151         | 6.17        |
| SACRAMENTO          | 189         | 13.02        | 66          | 3.54        |
| SAN BENITO          | 7           | 10.90        | 4           | 6.06        |
| SAN BERNARDINO      | 182         | 8.36         | 104         | 4.56        |
| SAN DIEGO           | 1141        | 35.66        | 354         | 9.71        |
| SAN FRANCISCO       | 142         | 17.36        | 57          | 6.45        |
| SAN JOAQUIN         | 84          | 11.33        | 27          | 3.41        |
| SAN LUIS OBISPO     | 371         | 137.54       | 16          | 4.41        |
| SAN MATEO           | 189         | 25.66        | 54          | 5.82        |
| SANTA BARBARA       | 65          | 14.96        | 17          | 3.43        |
| SANTA CLARA         | 473         | 25.74        | 179         | 9.34        |
| SANTA CRUZ          | 87          | 32.46        | 20          | 7.41        |
| SHASTA              | 32          | 16.69        | 25          | 12.82       |
| SIERRA              | 0           | 0.00         | 0           | 0.00        |
| SISKIYOU            | 10          | 21.23        | 0           | 0.00        |
| SOLANO              | 39          | 8.84         | 5           | 1.12        |
| SONOMA              | 246         | 49.66        | 113         | 22.41       |
| STANISLAUS          | 159         | 28.41        | 43          | 7.16        |
| SUTTER              | 5           | 4.89         | 1           | 0.94        |
| TEHAMA              | 10          | 15.25        | 1           | 1.49        |
| TRINITY             | 0           | 0.00         | 0           | 0.00        |
| TULARE              | 231         | 49.48        | 68          | 12.73       |
| TUOLUMNE            | 32          | 54.49        | 4           | 6.74        |
| VENTURA             | 373         | 43.58        | 106         | 9.59        |
| YOLO                | 17          | 8.25         | 6           | 2.86        |
| YUBA                | 5           | 6.22         | 0           | 0.00        |

\*Data are preliminary and include cases reported to CDPH as of 11/10/2011

‡City health jurisdictions not included in county total