

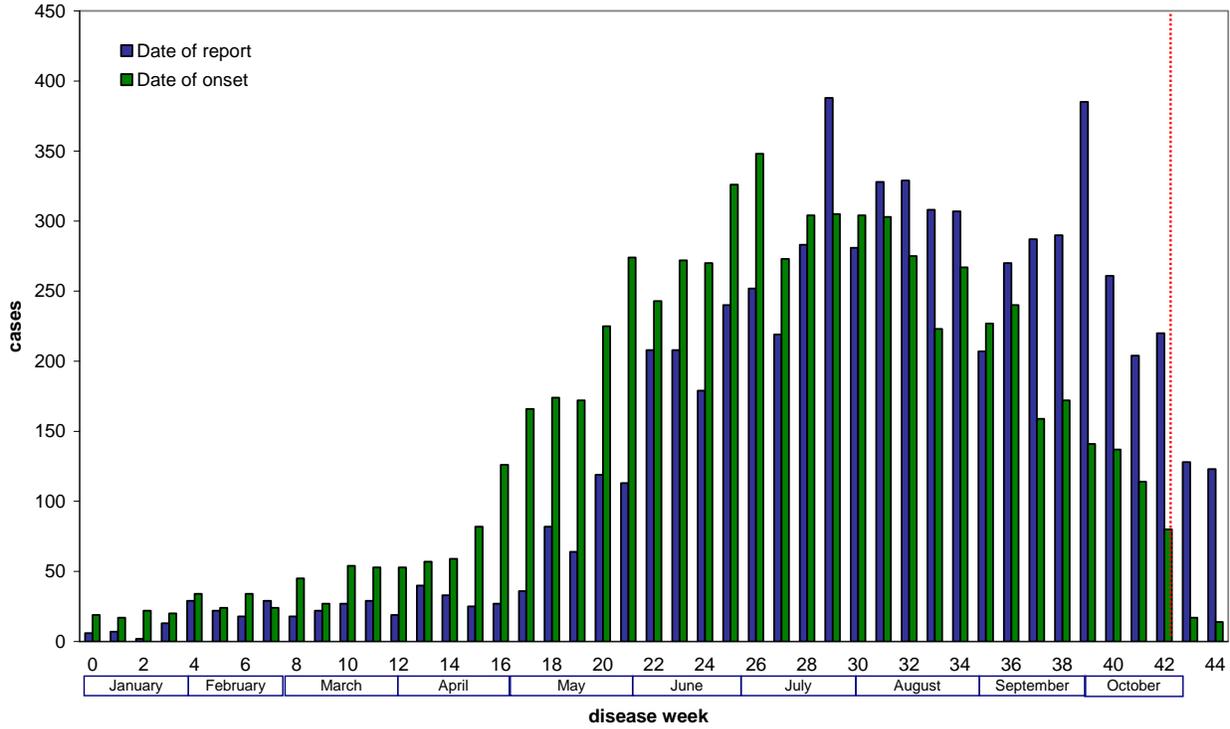


# Pertussis Report

November 16, 2010

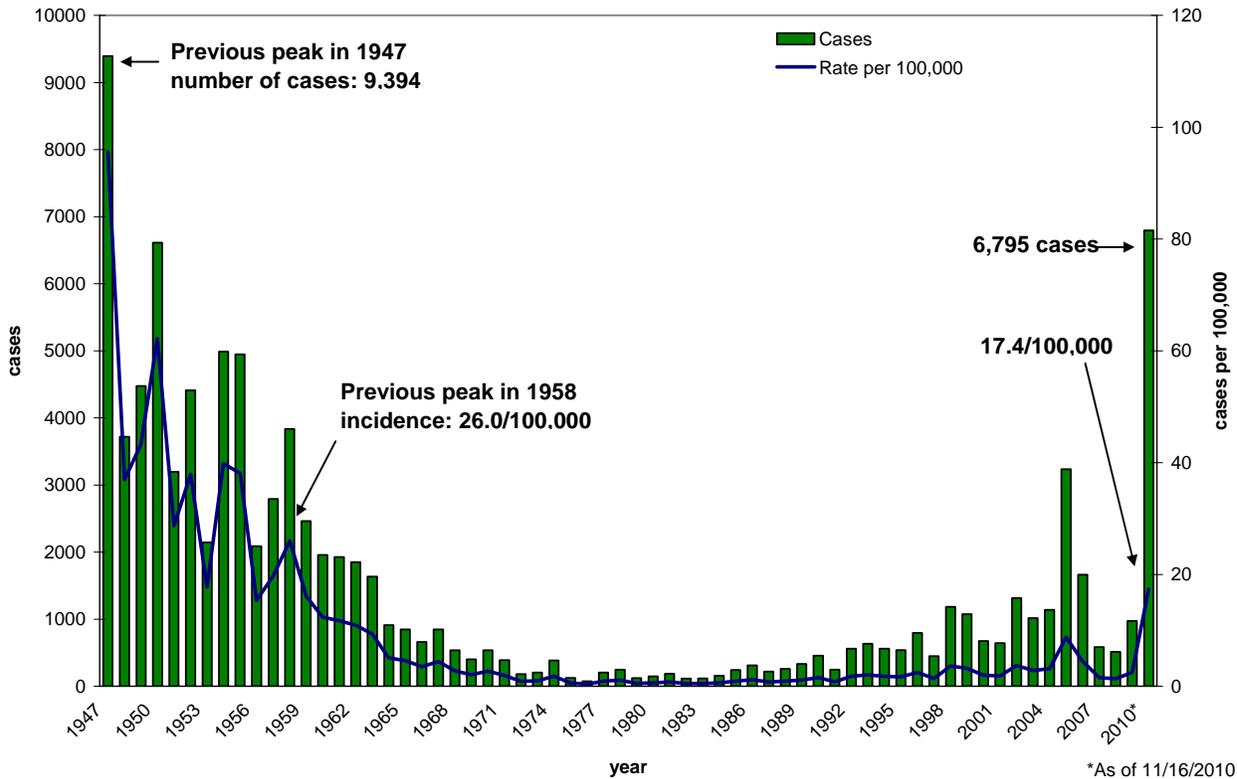
- **No major updates this week**
- **6,795** confirmed, probable and suspect cases of pertussis with onset from January 1 through November 16, 2010 have been reported to CDPH for a state rate of **17.4 cases/100,000**.
  - 164 new cases have been reported to CDPH this week (Figure 1).
  - Case Classification:
    - Confirmed: ~67%
    - Probable: ~16%
    - Suspect: ~17%
- 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 2).
- Of the 39% of cases with known hospitalization information, 282 (11%) cases have been hospitalized
  - 165 (59%) of hospitalized cases were infants <3 months of age and 213 (76%) were infants <6 months of age.
  - 162 (76%) of the hospitalized infants <6 months of age with known race and ethnicity were Hispanic.
- Ten deaths have been 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 3).
- The case-fatality rate among infants <3 months of age is 1.7%.
- Rates are highest in infants <6 months of age (345.7 cases/100,000), in children aged 6 months to 6 years (42.1 cases/100,000), 7-9 years (50.6 cases/100,000) and adolescents aged 10-18 years (37.3 cases/100,000) (Figure 4). The majority of adolescent cases are in 10-11 year-olds.
- Overall rates by race/ethnicity are highest in Hispanics (17.9/100,000) and whites (14.7/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (426.4/100,000) (Figures 3 and 4).
- The median case rate by county is 14.4 cases per 100,000 (range 0-139) (Figure 5 and Table 1).

**Figure 1. Epidemic curve of pertussis cases\* by weeks of report and onset -- California, January 1 through November 16, 2010**



\*Includes cases residing in Los Angeles County that were reported to the county public health department through week 42

**Figure 2. Number of reported pertussis cases by year of onset -- California 1947-2010\***



\*As of 11/16/2010

Figure 3. Infant pertussis cases by age in months -- California, 2010\*

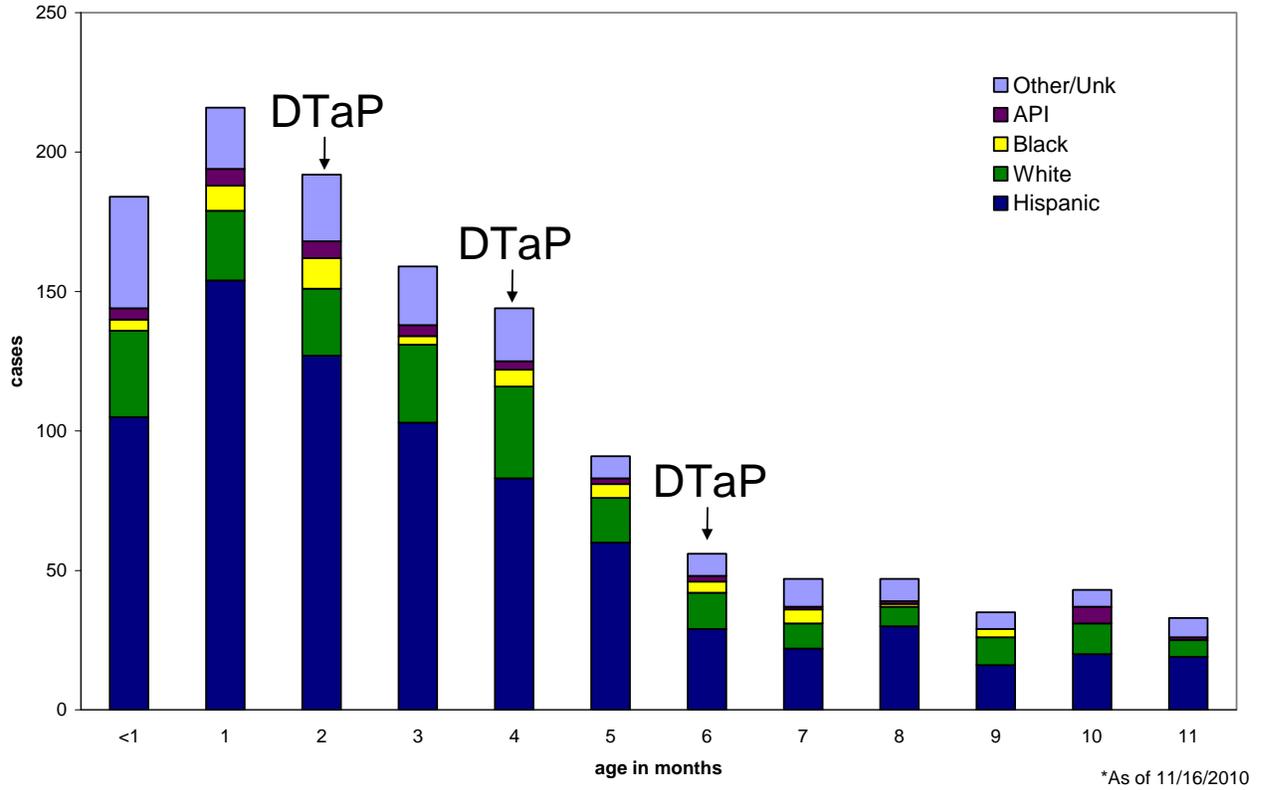
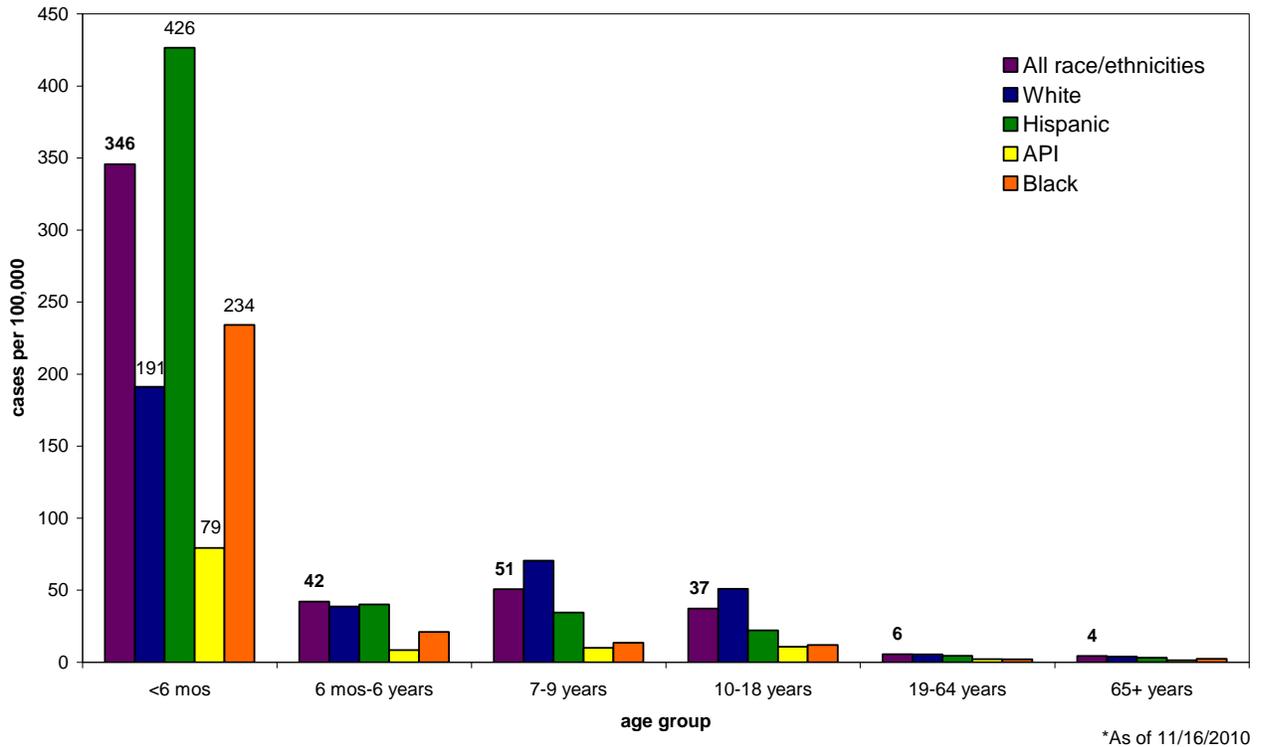
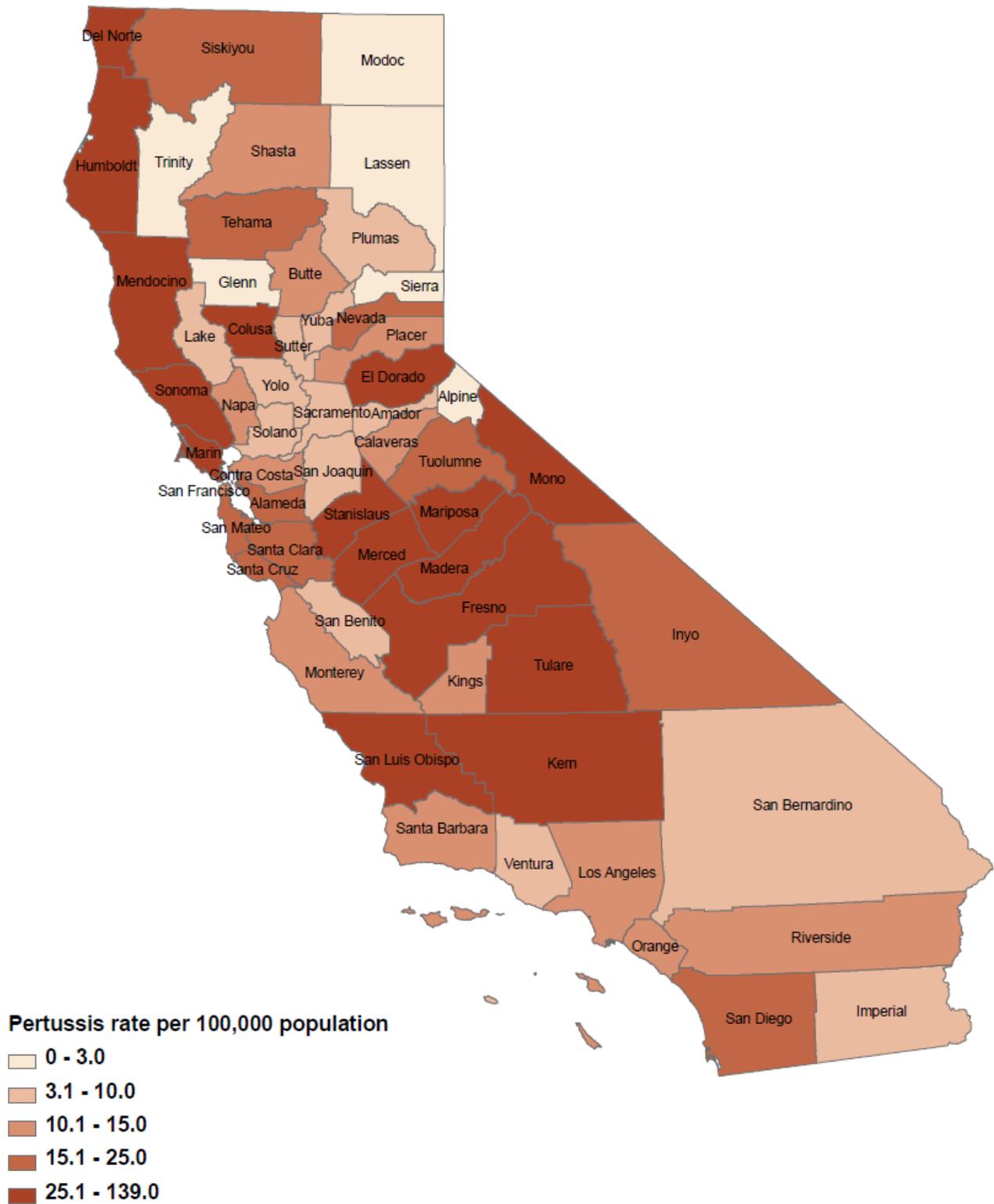


Figure 4. Incidence of pertussis cases by race/ethnicity and age -- California, 2010\*



**Figure 5. Pertussis rates by county – California, January 1 – November 16, 2010**



**Table 1. Pertussis cases with onset from January 1 through November 16, 2010 reported to CDPH by local health jurisdiction -- California, 2010**

	2010	
	Cases	Rate
<b>CALIFORNIA</b>	<b>6795</b>	<b>16.94</b>
ALAMEDA	310	20.86
City of Berkeley*	12	11.20
ALPINE	0	0.00
AMADOR	3	7.53
BUTTE	31	12.79
CALAVERAS	7	14.83
COLUSA	11	47.20
CONTRA COSTA	159	14.37
DEL NORTE	16	52.23
EL DORADO	47	24.69
FRESNO	518	53.80
GLENN	0	0.00
HUMBOLDT	43	32.08
IMPERIAL	10	5.41
INYO	3	15.72
KERN	334	37.97
KINGS	19	11.80
LAKE	3	4.50
LASSEN	0	0.00
LOS ANGELES**	1037	10.15
City of Long Beach*	69	12.99
City of Pasadena*	17	11.32
MADERA	121	76.46
MARIN	335	129.77
MARIPOSA	10	52.81
MENDOCINO	26	28.12
MERCED	116	43.33
MODOC	0	0.00
MONO	5	34.27
MONTEREY	62	12.55
NAPA	20	13.49
NEVADA	23	22.59
ORANGE	418	12.95
PLACER	51	14.97
PLUMAS	2	9.20
RIVERSIDE	317	13.95
SACRAMENTO	136	9.46
SAN BENITO	4	6.41
SAN BERNARDINO	102	4.77
SAN DIEGO	629	18.74
SAN FRANCISCO	106	12.90
SAN JOAQUIN	64	7.74
SAN LUIS OBISPO	372	138.45
SAN MATEO	142	18.39
SANTA BARBARA	56	14.86
SANTA CLARA	307	16.72
SANTA CRUZ	63	23.24
SHASTA	26	14.81
SIERRA	0	0.00
SISKIYOU	10	23.48
SOLANO	14	3.21
SONOMA	226	45.99
STANISLAUS	138	24.75
SUTTER	5	4.00
TEHAMA	11	17.02
TRINITY	0	0.00
TULARE	132	27.16
TUOLUMNE	9	15.40
VENTURA	65	7.68
YOLO	18	8.88
YUBA	5	6.37

\*City health jurisdictions not included in county total

\*\*Includes cases reported to LAC DPH as of 10/29/2010