



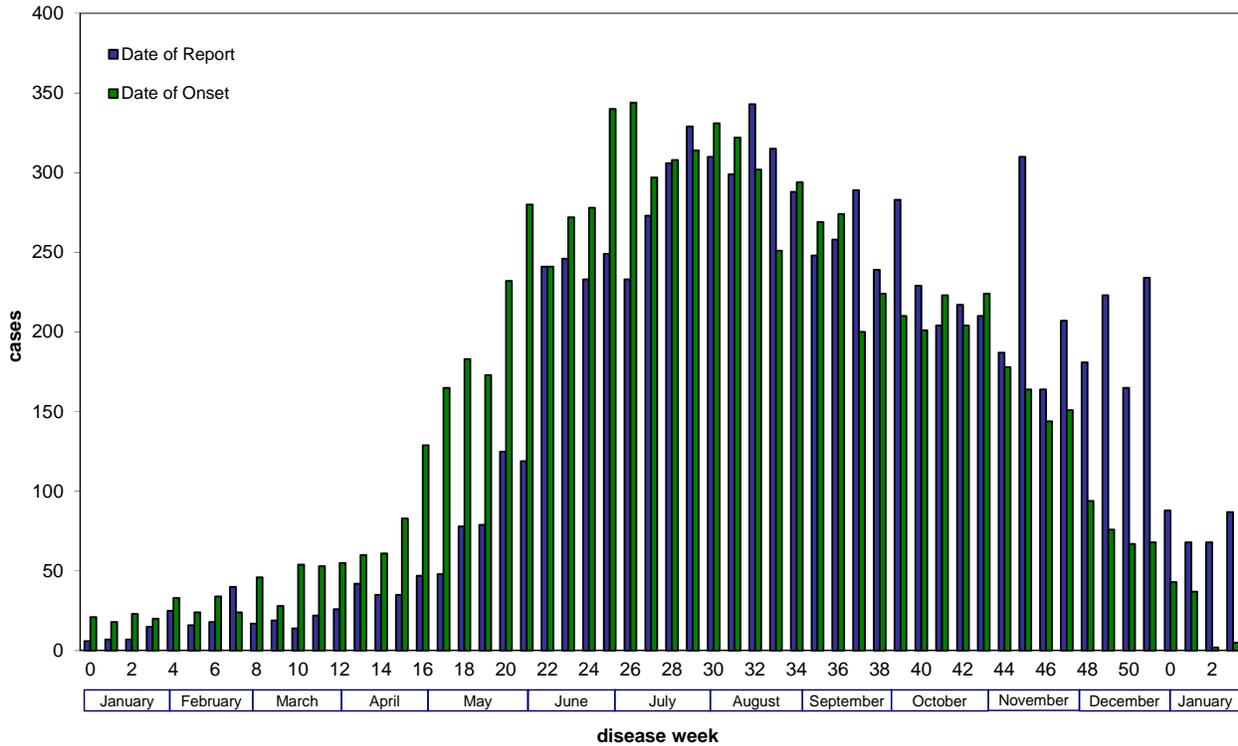
# Pertussis Report

## January 31, 2011

- **New in this report:** Disease activity is slowing statewide, however relatively high numbers of cases continue to be reported each week. Data for 2010 are still preliminary and final case counts are not expected until Spring 2011.
- **8,627** confirmed, probable and suspect cases of pertussis with onset from January 1 through December 31, 2010 have been reported to CDPH for a state rate of **22.0 cases/100,000**. 99 cases with onset in 2011 have been reported.
  - 244 new cases have been reported to CDPH since the last report on January 7, 2011 (Figure 1). The total cases reported for each week are:
    - January 3: 88 cases
    - January 10: 68 cases
    - January 17: 68 cases
    - January 24: 87 cases
  - Case Classification:
    - Confirmed: ~62%
    - Probable: ~19%
    - Suspect: ~19%
- 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 55% of cases with known hospitalization information, 433 (9%) cases have been hospitalized
  - 240 (55%) of hospitalized cases were infants <3 months of age and 311 (72%) were infants <6 months of age.
  - 237 (80%) 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 1.4%.
- Rates are highest in infants <6 months of age (429.0 cases/100,000), in children aged 6 months to 6 years (56.7 cases/100,000), 7-9 years (63.4 cases/100,000) and adolescents aged 10-18 years (46.1 cases/100,000) (Figure 4). The majority of adolescent cases are in 10-11 year-olds.

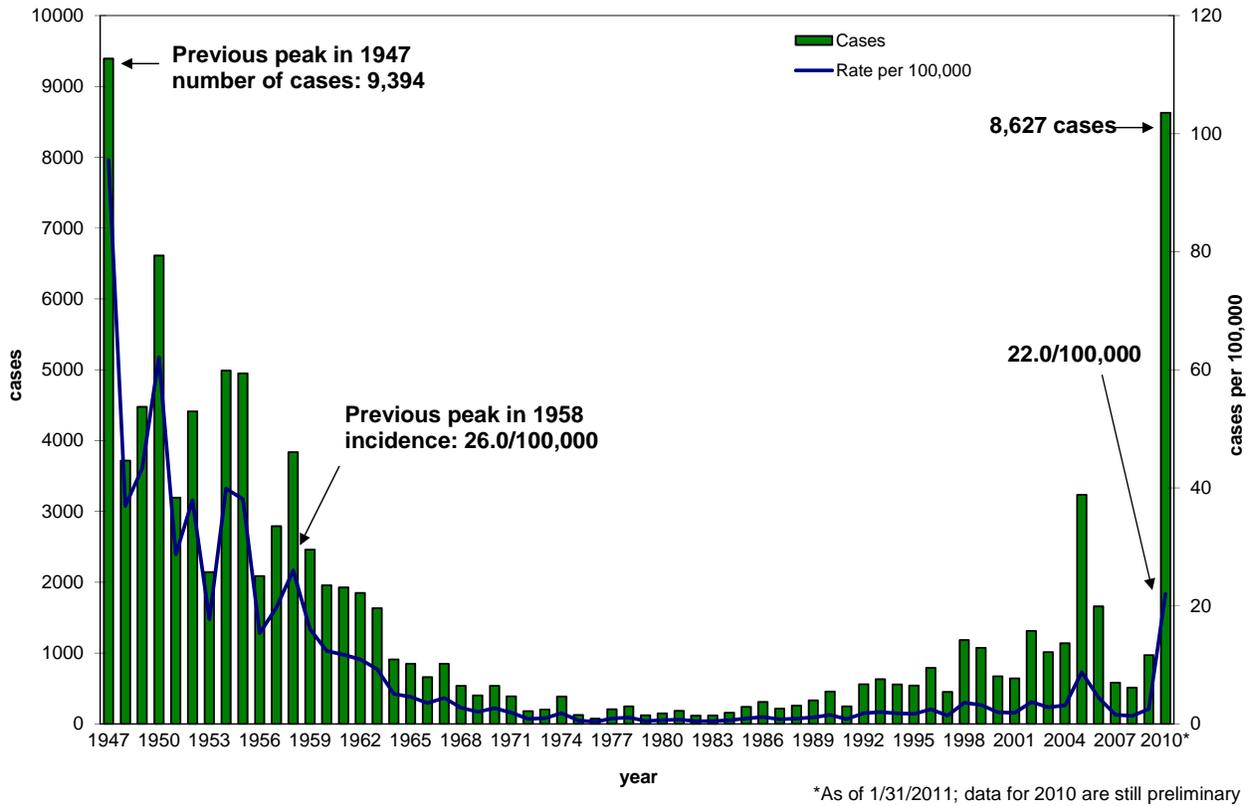
- Overall rates by race/ethnicity are highest in Hispanics (23.8/100,000) and whites (18.7/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (547.1/100,000) (Figures 3 and 4).
- The median case rate by county is 18.6 cases per 100,000 (range 0-139) (Figure 5 and Table 1).

**Figure 1. Epidemic curve of pertussis cases\* by weeks of report and onset -- California, January 1, 2010 through January 31, 2011**



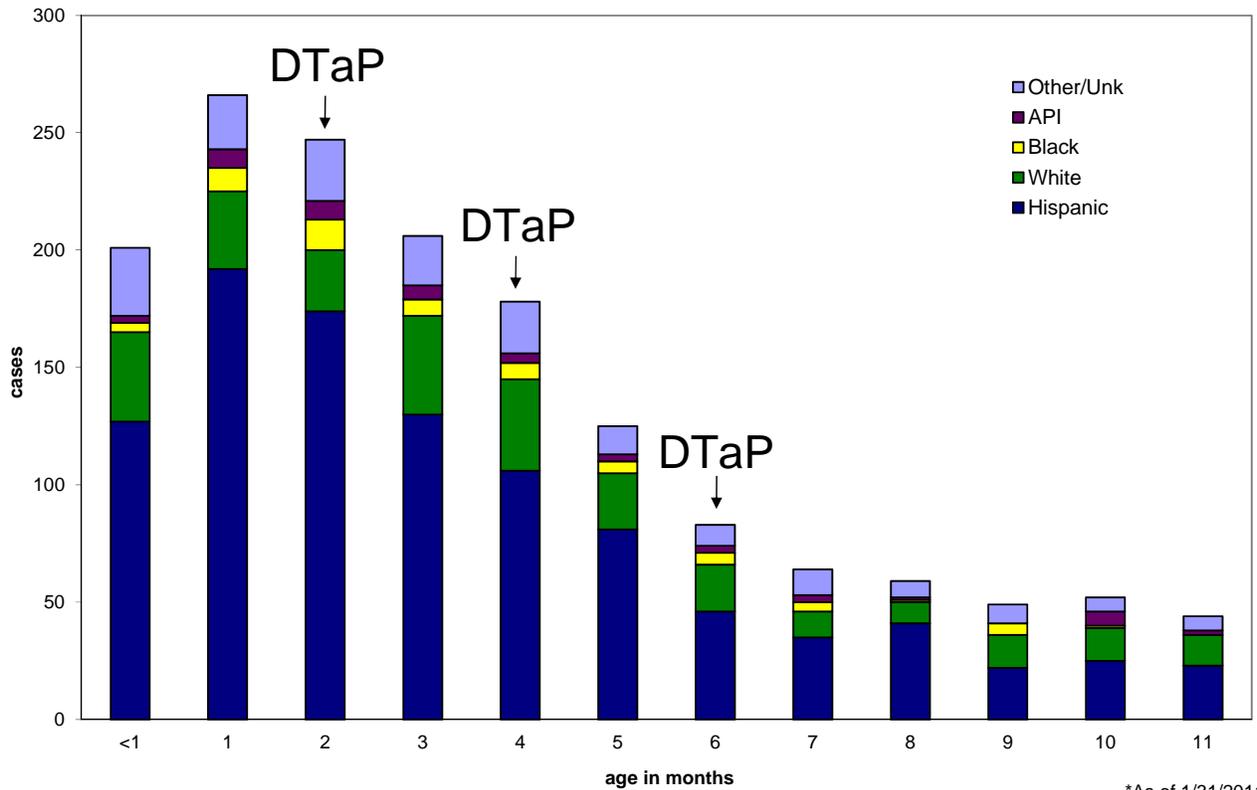
\*Includes cases reported to CDPH as of 1/31/2011

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



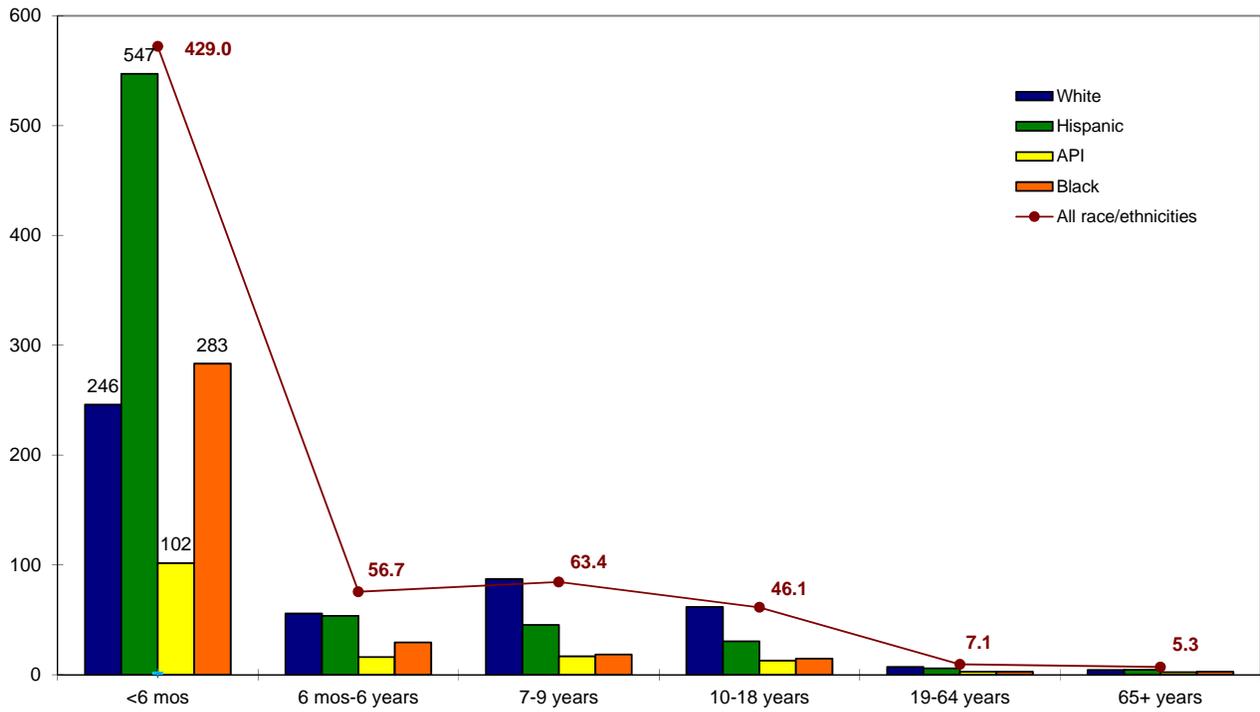
\*As of 1/31/2011; data for 2010 are still preliminary

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



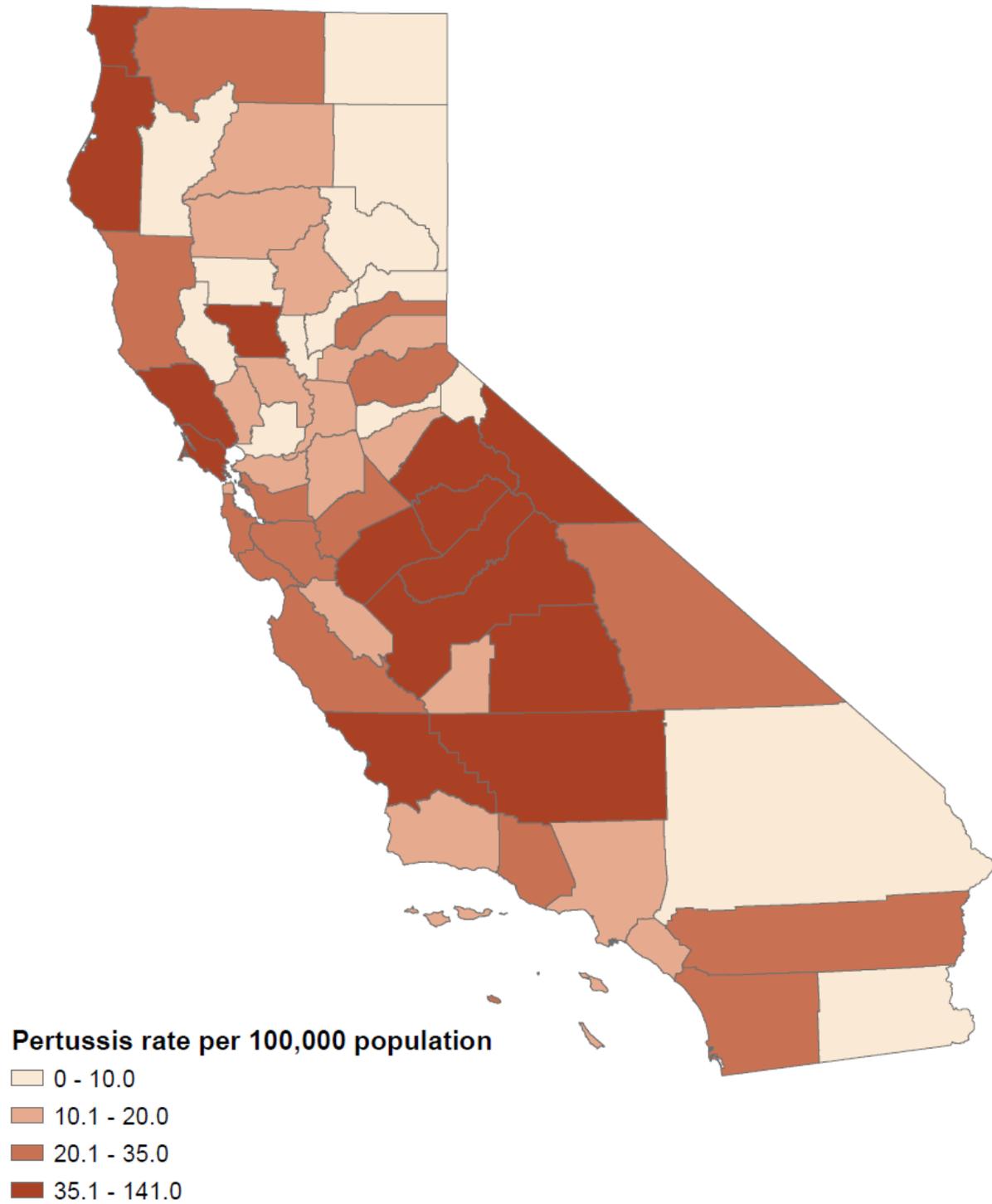
\*As of 1/31/2011

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



\*As of 1/31/2011

Figure 5. Pertussis rates by county – California, January 1 – December 31, 2010 (updated 1/31/2011)



**Table 1. Pertussis cases with onset from January 1 through December 31, 2010 reported to CDPH by local health jurisdiction -- California, 2010**

	2010	
	Cases	Rate
<b>CALIFORNIA</b>	<b>8627</b>	<b>22.04</b>
ALAMEDA	422	29.44
City of Berkeley*	18	16.79
ALPINE	0	0.00
AMADOR	3	7.53
BUTTE	31	13.67
CALAVERAS	7	14.83
COLUSA	11	47.20
CONTRA COSTA	217	20.38
DEL NORTE	16	52.23
EL DORADO	54	28.98
FRESNO	560	58.05
GLENN	1	3.29
HUMBOLDT	62	46.26
IMPERIAL	8	4.33
INYO	6	31.43
KERN	369	43.25
KINGS	26	16.15
LAKE	5	7.49
LASSEN	0	0.00
LOS ANGELES**	1335	13.61
City of Long Beach*	75	15.22
City of Pasadena*	18	11.99
MADERA	122	77.09
MARIN	345	136.09
MARIPOSA	10	52.81
MENDOCINO	32	34.61
MERCED	132	49.31
MODOC	0	0.00
MONO	15	102.82
MONTEREY	106	24.63
NAPA	23	16.33
NEVADA	30	29.46
ORANGE	489	15.33
PLACER	52	15.26
PLUMAS	2	9.20
RIVERSIDE	462	21.21
SACRAMENTO	188	13.08
SAN BENITO	8	12.81
SAN BERNARDINO	157	7.35
SAN DIEGO	821	25.91
SAN FRANCISCO	151	18.55
SAN JOAQUIN	82	11.33
SAN LUIS OBISPO	373	139.20
SAN MATEO	188	25.61
SANTA BARBARA	66	15.32
SANTA CLARA	477	26.15
SANTA CRUZ	83	31.11
SHASTA	31	16.39
SIERRA	0	0.00
SISKIYOU	11	23.48
SOLANO	38	8.71
SONOMA	235	47.82
STANISLAUS	160	29.12
SUTTER	6	6.00
TEHAMA	13	20.11
TRINITY	0	0.00
TULARE	230	50.37
TUOLUMNE	22	37.65
VENTURA	196	23.15
YOLO	22	10.85
YUBA	5	6.37

\*City health jurisdictions not included in county total

\*\*Data are preliminary and include cases reported to CDPH as of 1/31/2011