

Pertussis Report
9/14/2010

- As of 9/14/2010, there have been **4,017** confirmed, probable and suspect cases of pertussis reported in 2010 for a state rate of **10.3 cases/100,000**.
 - 3,985 of reported cases had disease onset in 2010 (Figure 1).
 - 183 new cases have been reported this week, compared to 234 in the prior week (Figure 2)
 - Case Classification:
 - Confirmed: ~65%
 - Probable: ~20%
 - Suspect: ~15%
- This is the most cases reported in 55 years when 4,949 cases were reported in 1955 and the highest incidence in 48 years when a rate of 10.9 cases/100,000 was reported in 1962. Previously, the peak was in 2005 when there were 3,182 cases reported (Figure 3).
- Of the 44% of cases with known hospitalization information - 196 (11.2%) cases have been hospitalized (
 - 115 (57%) of hospitalized cases were infants <3 months of age and 146 (74%) were infants <6 months of age.
 - 113 (77%) of the hospitalized infants <6 months of age were Hispanic.
- Nine deaths have been reported; 8 (89%) were Hispanic infants. Eight 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).
- Rates are highest in infants <6 months of age (184 cases/100,000), in children aged 7-9 years (33 cases/100,000) and adolescents aged 10-18 years (24 cases/100,000) (Figure 5). The majority of adolescent cases are in 10-11 year-olds.
- Overall rates by race/ethnicity are highest in whites (9.8/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (229/100,000) (Figures 4 and 5).
- The median case rate by county is 9.1 cases per 100,000 (range 0-128) (Table 1).

Figure 1. Epidemic curve of reported pertussis cases and deaths by month of onset -- California, 2005, 2009-2010*

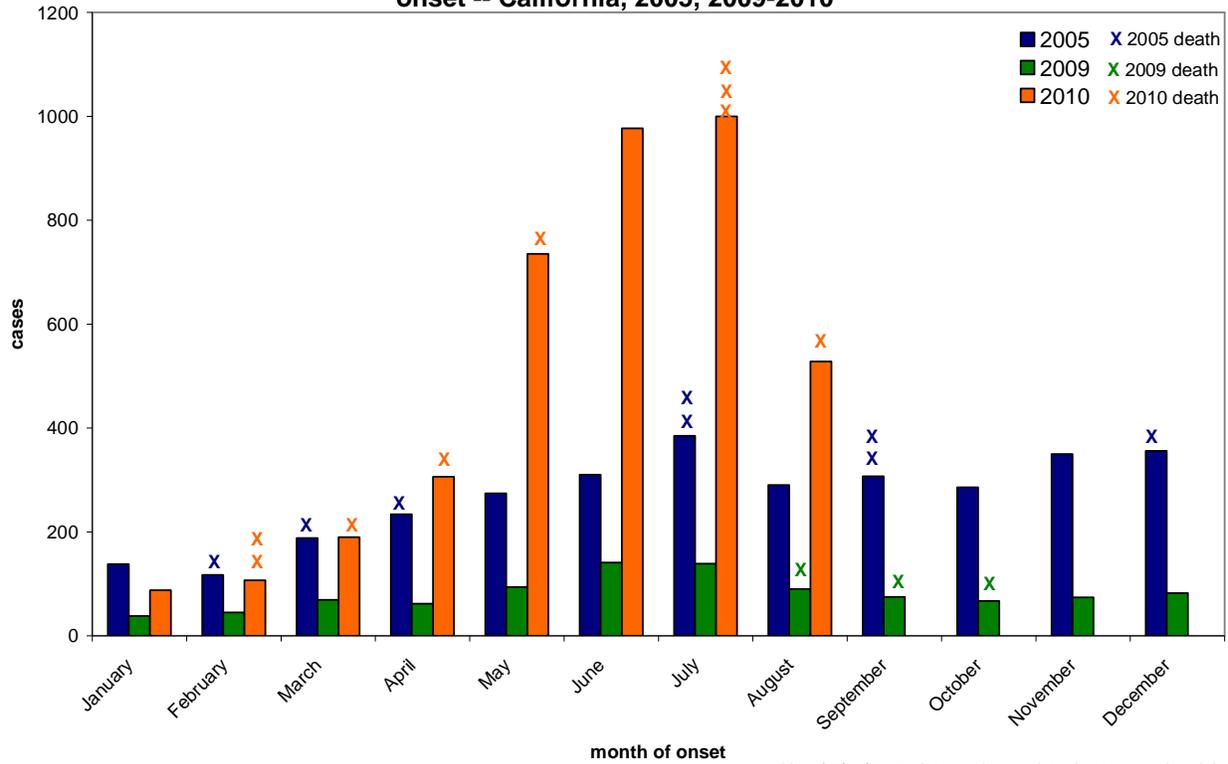


Figure 2. Epidemic curve of pertussis cases* by week of report and week of onset -- California, January 1 through September 14, 2010

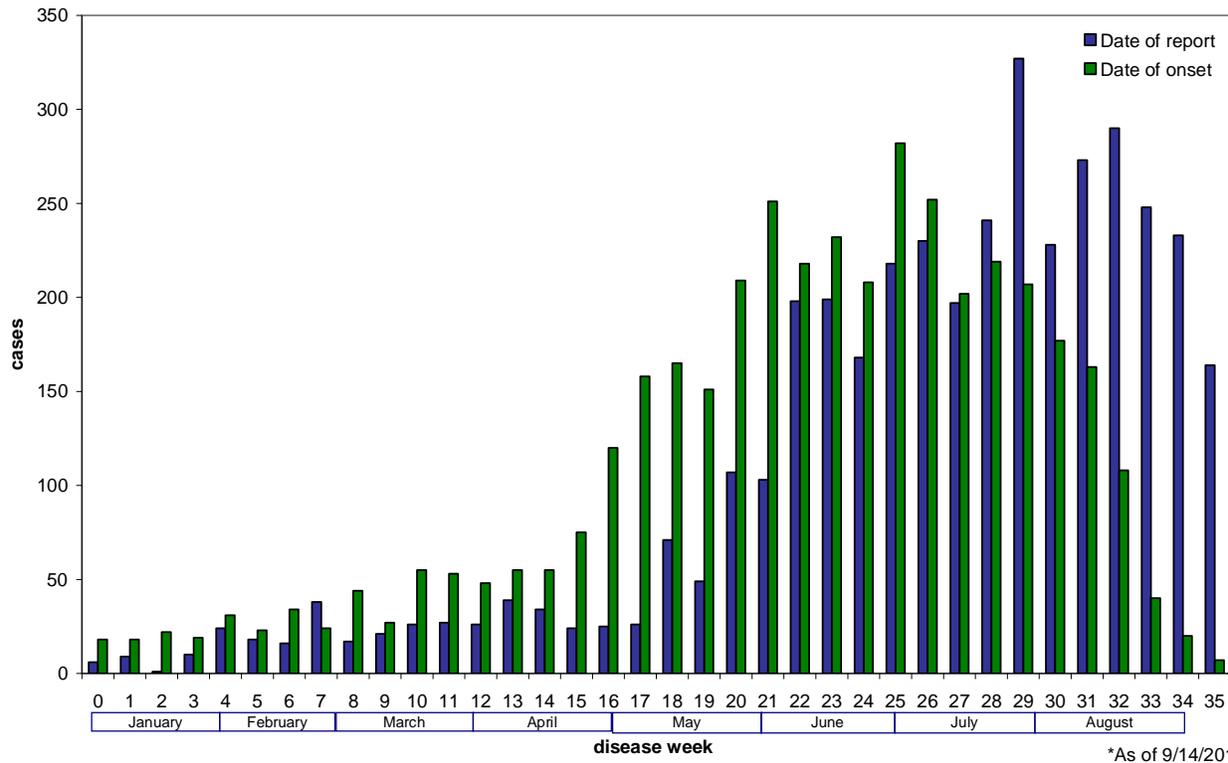


Figure 3. Number of reported pertussis cases by year of onset -- California 1950-2010*

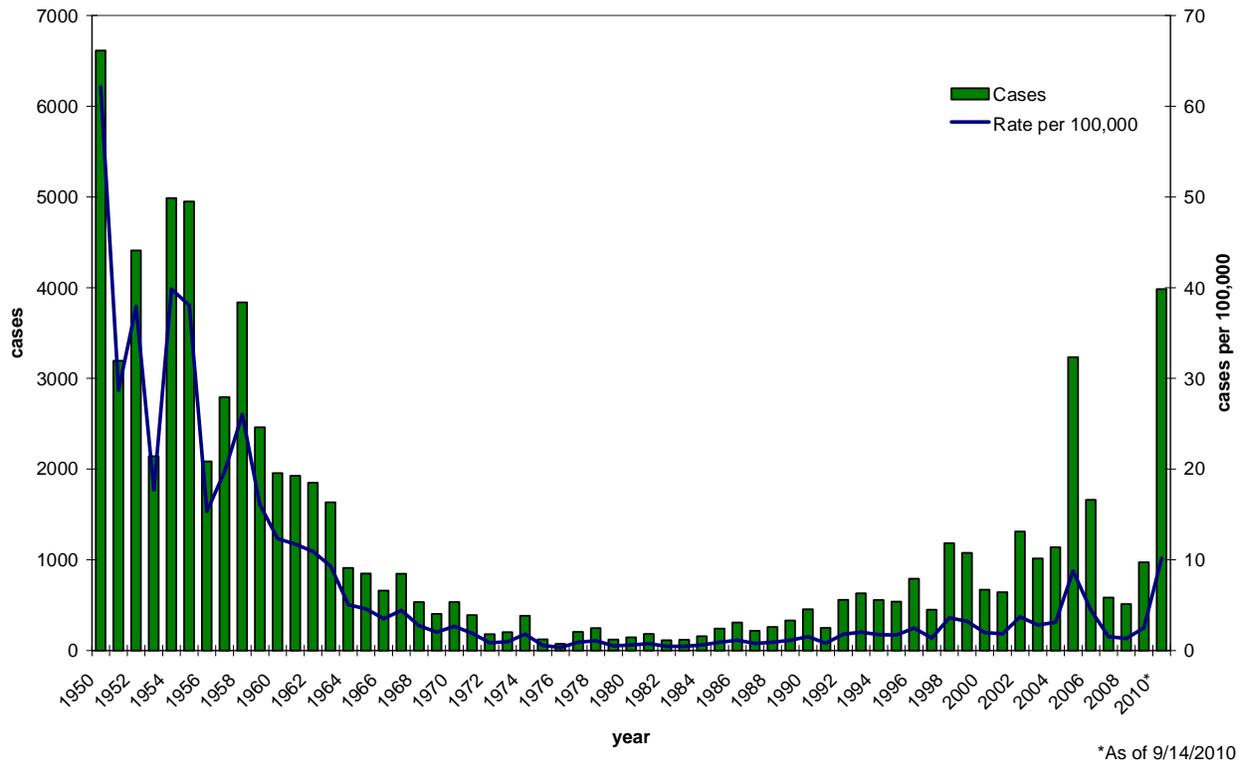


Figure 4. Infant pertussis cases by age in months -- California, 2010*

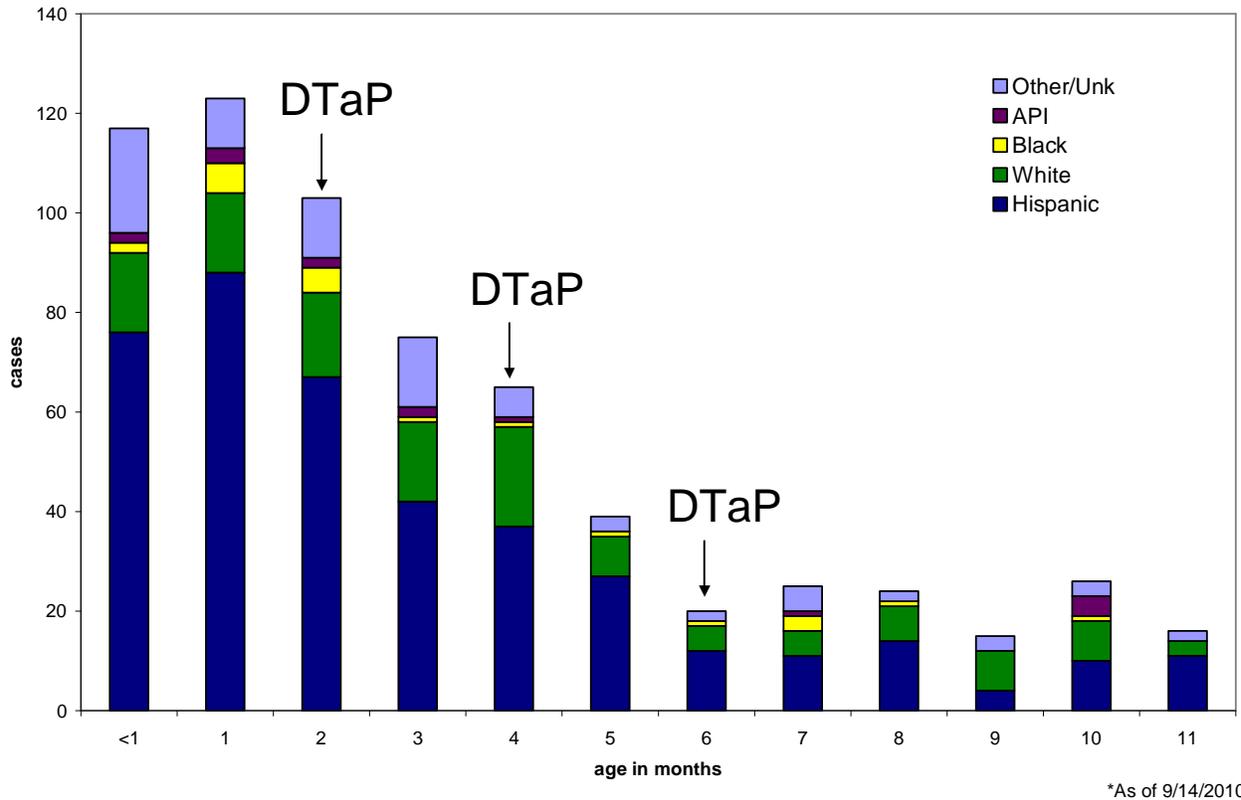


Figure 5. Incidence of pertussis cases by race/ethnicity and age -- California, 2010*

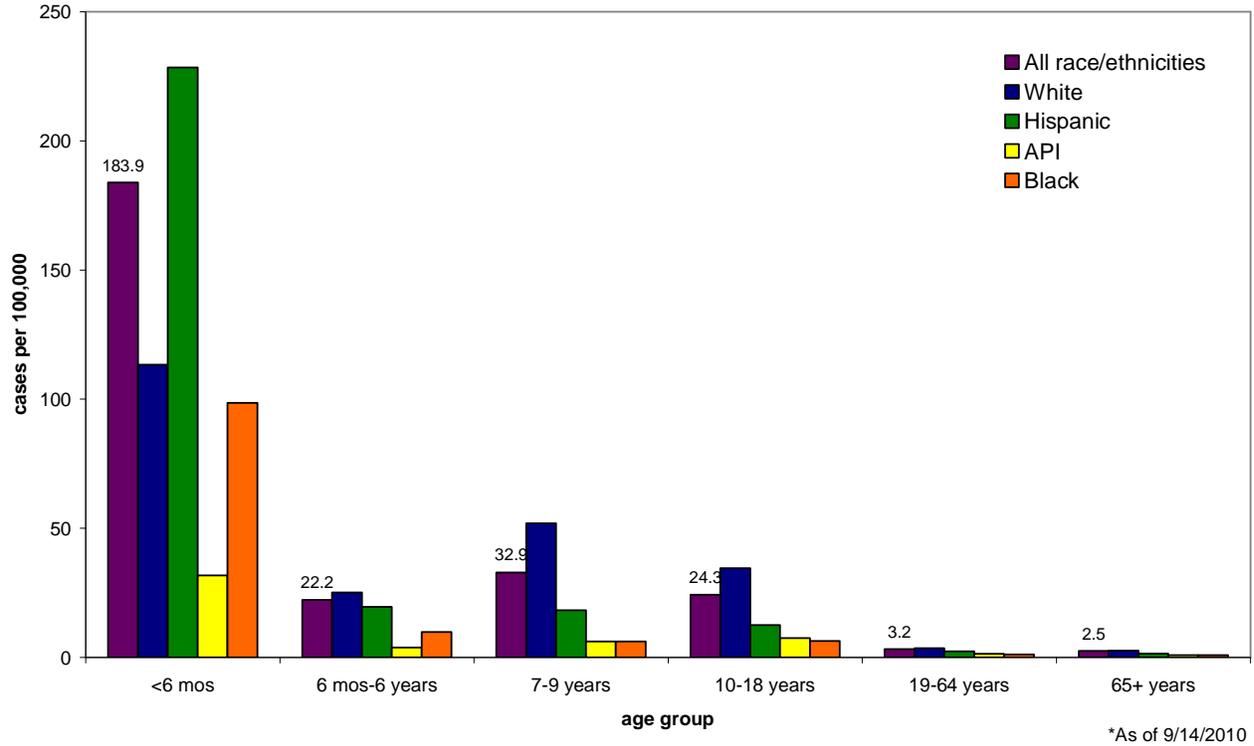


Table 1. Pertussis cases reported to CDPH from January 1 through September 4 by local health jurisdiction -- California, 2010

	2010	
	Cases	Rate
CALIFORNIA	4017	10.26
ALAMEDA	189	13.19
City of Berkeley*	9	8.40
ALPINE	0	0.00
AMADOR	3	7.53
BUTTE	13	5.73
CALAVERAS	7	14.83
COLUSA	7	30.04
CONTRA COSTA	106	9.96
DEL NORTE	16	52.23
EL DORADO	39	20.93
FRESNO	374	38.77
GLENN	0	0.00
HUMBOLDT	16	11.94
IMPERIAL	8	4.33
INYO	2	10.48
KERN	231	27.07
KINGS	21	13.04
LAKE	2	3.00
LASSEN	0	0.00
LOS ANGELES	84	0.86
City of Long Beach*	45	9.13
City of Pasadena*	11	7.32
MADERA	102	64.45
MARIN	295	116.36
MARIPOSA	6	31.69
MENDOCINO	15	16.22
MERCED	85	31.75
MODOC	0	0.00
MONO	1	6.85
MONTEREY	19	4.41
NAPA	18	12.78
NEVADA	11	10.80
ORANGE	287	9.00
PLACER	47	13.79
PLUMAS	2	9.20
RIVERSIDE	175	8.03
SACRAMENTO	68	4.73
SAN BENITO	3	4.80
SAN BERNARDINO	36	1.69
SAN DIEGO	389	12.27
SAN FRANCISCO	59	7.25
SAN JOAQUIN	48	6.63
SAN LUIS OBISPO	344	128.38
SAN MATEO	96	13.07
SANTA BARBARA	38	8.82
SANTA CLARA	194	10.64
SANTA CRUZ	54	20.24
SHASTA	8	4.23
SIERRA	0	0.00
SISKIYOU	7	14.94
SOLANO	11	2.52
SONOMA	184	37.44
STANISLAUS	104	18.93
SUTTER	4	4.00
TEHAMA	1	1.55
TRINITY	0	0.00
TULARE	75	16.43
TUOLUMNE	9	15.40
VENTURA	20	2.36
YOLO	15	7.40
YUBA	4	5.10

*City health jurisdictions not included in county total