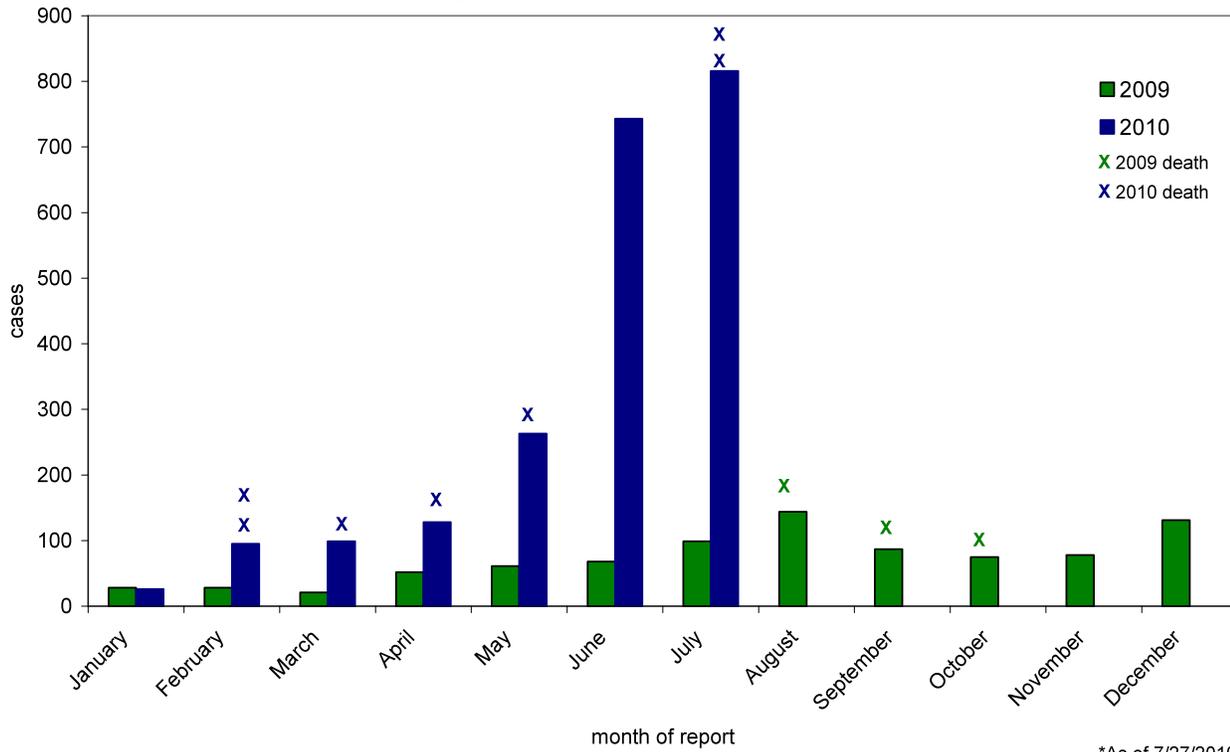


Pertussis Report  
7/27/2010

- To date (7/27/2010), there have been **2,174** cases of pertussis reported in 2010 for a state rate of **5.6 cases/100,000**. This is a **6-fold increase** from the number of reported cases during the same time period in 2009 when **349** cases were reported (Figure 1).
- If current trends continue it is possible that California will see more cases of pertussis than it has seen in over 50 years and highest rate of disease in 47 years.
- 130 (14%) cases are known to have been hospitalized (however, hospitalization information only available for 934 (43%) of cases); 79 (61%) of hospitalized cases were infants <3 months of age and 102 (79%) were infants <6 months of age.
- 7 deaths have been reported, all in infants <2 months of age at time of disease onset; none had received any doses of pertussis-containing vaccine. The majority of infant cases in 2010 have occurred in infants <3 months of age. All fatalities have been in Hispanic infants.
- County rates range from 0 to >94 cases/100,000 (Table 1), however these data do not reflect cases that have not yet been reported to CDPH.
- Rates are highest in infants <6 months of age (1.1 case/1,000), in adolescents aged 7-9 years (16.5 cases/100,000) and 10-18 years (14.3 cases/100,000) (Figure 2).
- Overall rates by race/ethnicity are highest in whites (5.3/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (1.4/1,000) (Table 2).
- County-specific rates can be found in Table 1. Counties with notably high rates are:
  - Marin (**94 cases/100,000**)
  - Fresno (27 cases/100,000)
  - El Dorado (12 cases/100,000)
  - Madera (33 cases/100,000)
  - Del Norte\* (52 cases/100,000)
  - San Luis Obispo (**94 cases/100,000**)
  - Sonoma (19 cases/100,000)
  - Santa Cruz (14 cases/100,000)
  - Stanislaus (13 cases/100,000)
  - Merced (16 cases/100,000)

\*Del Norte has not had any new cases since April after implementing a community vaccination campaign

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



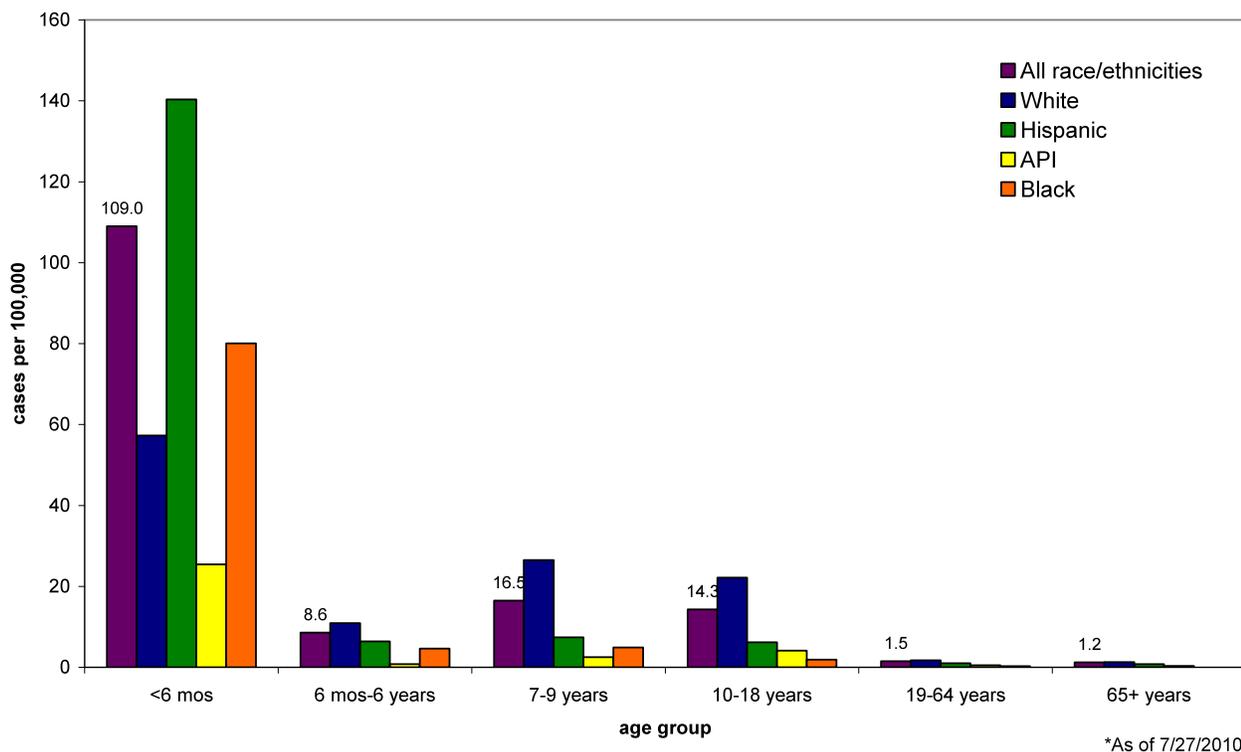
\*As of 7/27/2010

Table 1. Pertussis cases reported to CDPH from January 1 through July 27 by county -- California, 2009, 2010

	2009		2010	
	Cases	Rate	Cases	Rate
<b>CALIFORNIA</b>	<b>349</b>	<b>0.89</b>	<b>2174</b>	<b>5.56</b>
ALAMEDA	9	0.58	76	4.93
ALPINE	0	0.00	0	0.00
AMADOR	1	2.51	0	0.00
BUTTE	2	0.88	5	2.20
CALAVERAS	7	14.83	3	6.36
COLUSA	0	0.00	7	30.04
CONTRA COSTA	5	0.47	57	5.35
DEL NORTE	0	0.00	16	52.23
EL DORADO	2	1.07	23	12.34
FRESNO	14	1.45	265	27.47
GLENN	0	0.00	0	0.00
HUMBOLDT	12	8.95	9	6.72
IMPERIAL	0	0.00	7	3.79
INYO	0	0.00	0	0.00
KERN	1	0.12	87	10.20
KINGS	2	1.24	16	9.94
LAKE	0	0.00	2	3.00
LASSEN	0	0.00	0	0.00
LOS ANGELES	63	0.60	53	0.51
MADERA	5	3.16	53	33.49
MARIN	7	2.76	238	93.88
MARIPOSA	0	0.00	0	0.00
MENDOCINO	4	4.33	6	6.49
MERCED	4	1.49	42	15.69
MODOC	0	0.00	0	0.00
MONO	0	0.00	0	0.00
MONTEREY	1	0.23	18	4.18
NAPA	0	0.00	9	6.39
NEVADA	0	0.00	0	0.00
ORANGE	10	0.31	138	4.33
PLACER	4	1.17	25	7.34
PLUMAS	0	0.00	0	0.00
RIVERSIDE	21	0.96	56	2.57
SACRAMENTO	10	0.70	38	2.64
SAN BENITO	2	3.20	1	1.60
SAN BERNARDINO	6	0.28	15	0.70
SAN DIEGO	62	1.96	183	5.77
SAN FRANCISCO	16	1.97	38	4.67
SAN JOAQUIN	2	0.28	15	2.07
SAN LUIS OBISPO	0	0.00	252	94.04
SAN MATEO	8	1.09	51	6.95
SANTA BARBARA	6	1.39	11	2.55
SANTA CLARA	9	0.49	87	4.77
SANTA CRUZ	18	6.75	37	13.87
SHASTA	0	0.00	6	3.17
SIERRA	0	0.00	0	0.00
SISKIYOU	1	2.13	4	8.54
SOLANO	2	0.46	3	0.69
SONOMA	11	2.24	94	19.13
STANISLAUS	6	1.09	72	13.11
SUTTER	1	1.00	2	2.00
TEHAMA	1	1.55	1	1.55
TRINITY	0	0.00	0	0.00
TULARE	8	1.75	41	8.98
TUOLUMNE	0	0.00	0	0.00
VENTURA	3	0.35	4	0.47
YOLO	3	1.48	5	2.47
YUBA	0	0.00	3	3.82

\*rate per 100,000 population

**Figure 2. Incidence of pertussis cases by race/ethnicity and age -- California, 2010\***



**Table 2. Incidence per 100,000 population of reported pertussis cases\*, by race/ethnicity and age – California, January 1 - July 27, 2010**

	<6 mos	6 mos-6 yrs	7-9 yrs	10-18 yrs	19-64 yrs	65+ yrs
White	57.3	10.9	26.5	22.1	1.7	1.3
Hispanic	140.3	6.4	7.4	6.2	1.0	0.8
API	25.4	0.8	2.5	4.1	0.5	0.3
Black	80.1	4.6	4.9	1.9	0.3	0.0

\*out of 1578 cases with known information