

Pertussis Report
9/7/2010

- To date (9/7/2010), there have been **3,834** confirmed, probable and suspect cases of pertussis reported in 2010 for a state rate of **9.8 cases/100,000**. This is a **7-fold increase** from the number of reported cases during the same time period in 2009 when **530** cases were reported (Figure 1).
- This is the most cases reported in 52 years since there were 3,837 cases reported in 1958 and the highest incidence in 48 years since there were 10.9 cases/100,000 in 1962. Previously, the peak was in 2005 when there were 3,182 cases reported (Figure 2).
- 187 (12%) cases have been hospitalized (of the 1,549 cases with known hospitalization information). 111 (59%) of hospitalized cases were infants <3 months of age and 139 (74%) were infants <6 months of age. 108 (80%) of the hospitalized infants <6 months of age were Hispanic.
- 8 deaths have been reported, 7 were in infants <2 months of age at time of disease onset and had not received any doses of pertussis-containing vaccine. One was an ex-28 week preemie that was 2 months of age and had received the first dose of DTaP 11 days prior to disease onset. The majority of infant cases in 2010 have occurred in infants <3 months of age.
- Rates are highest in infants <6 months of age (178 cases/100,000), in children aged 7-9 years (30 cases/100,000) and adolescents aged 10-18 years (22 cases/100,000) (Figure 3).
- Overall rates by race/ethnicity are highest in whites (8.9/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (222/100,000) (Table 1).
- The median case rate by county is 8.8 cases per 100,000 (range 0-121) (Table 2).

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

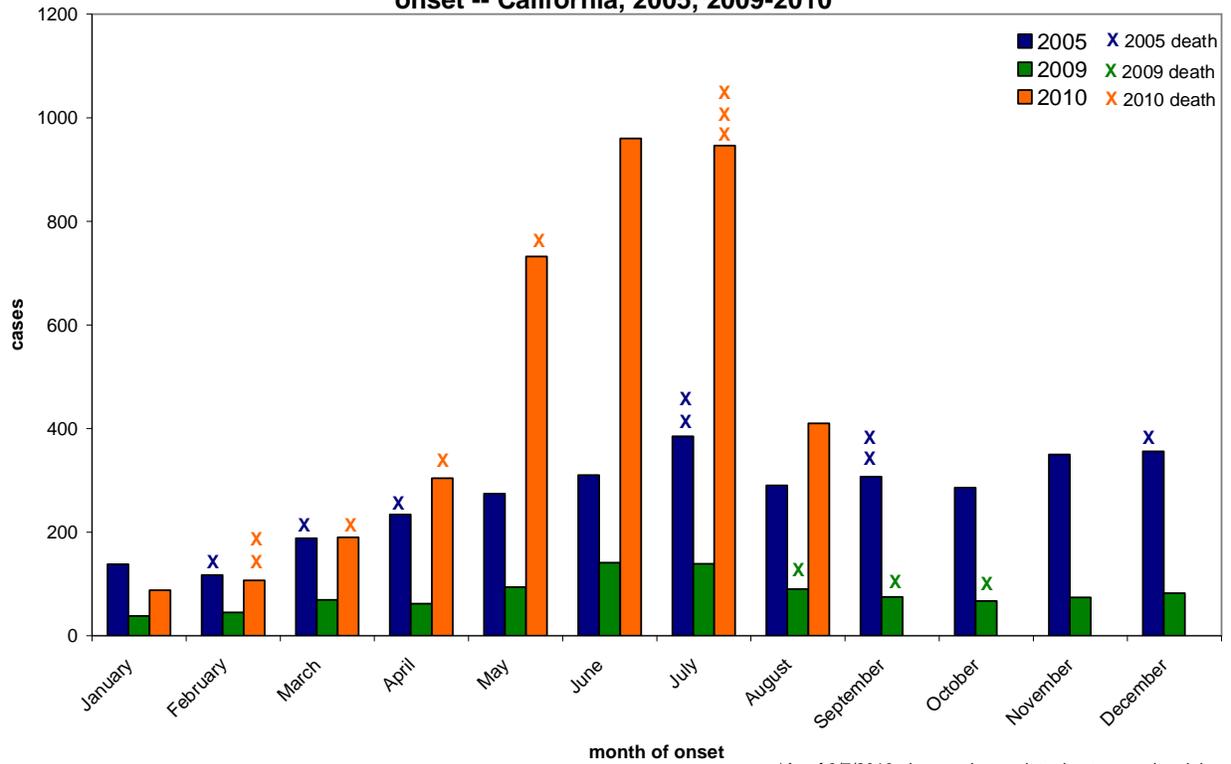


Figure 2. Number of reported pertussis cases by year of onset -- California 1950-2010*

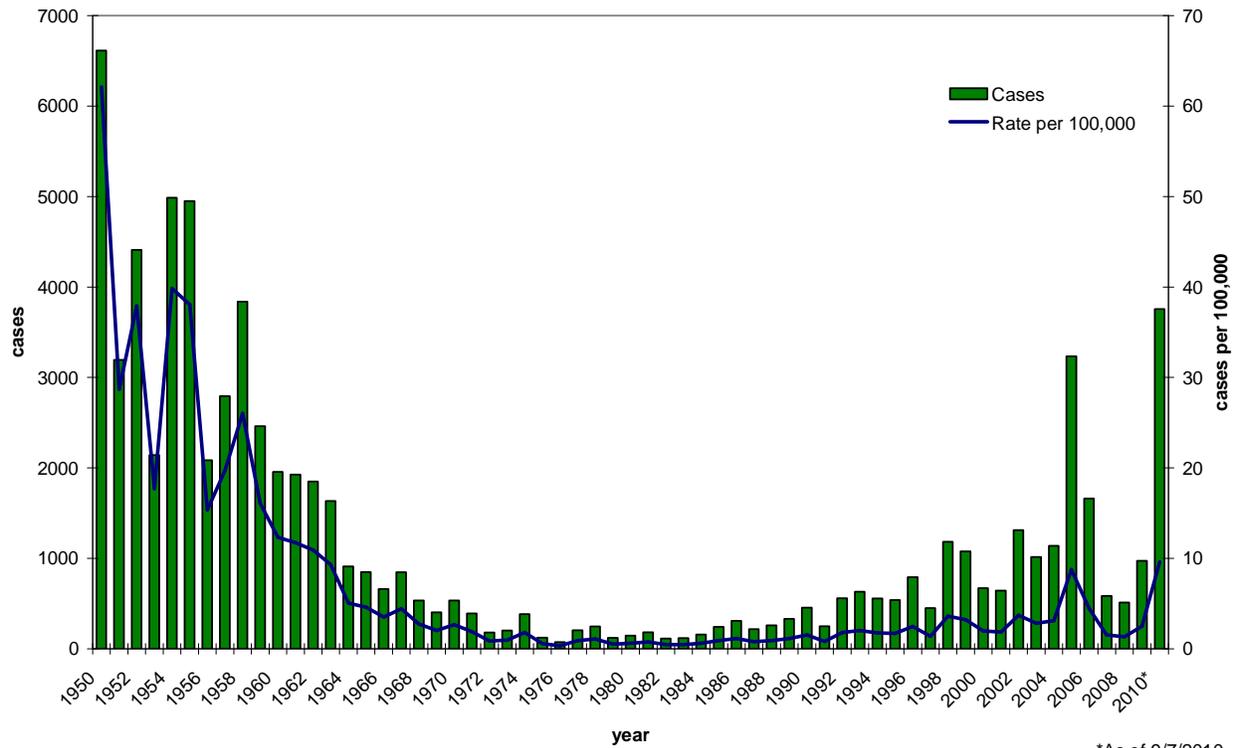
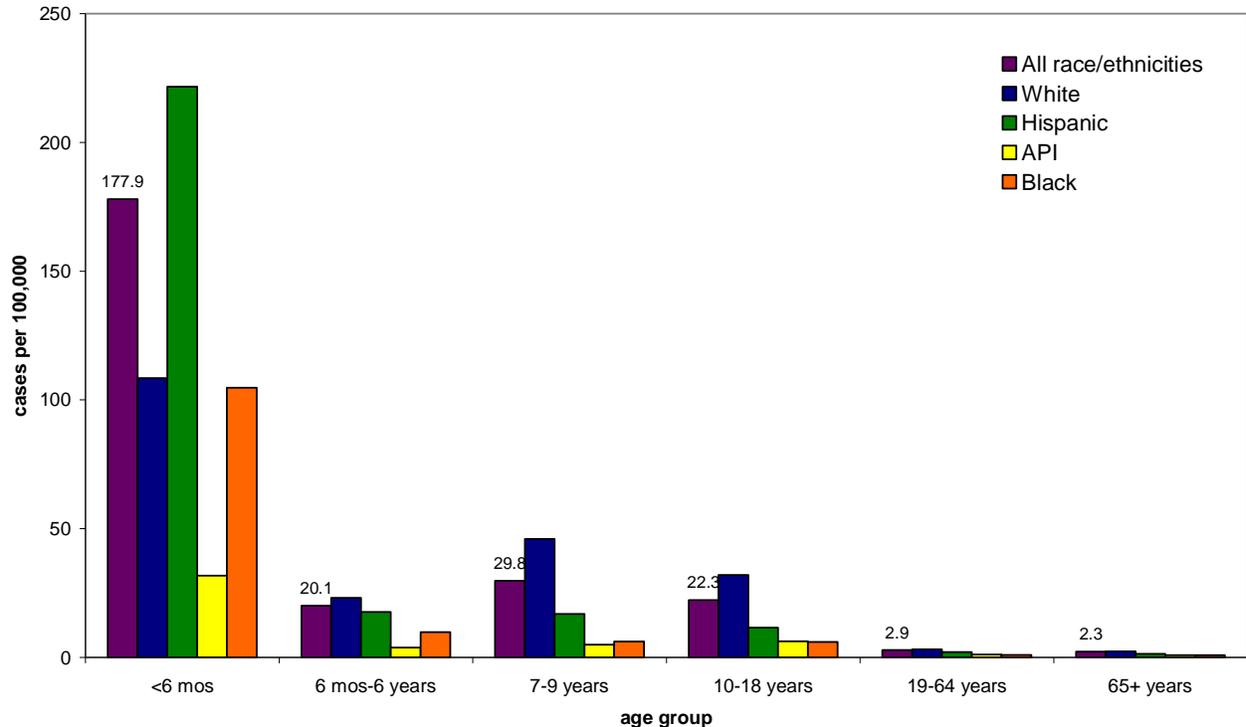


Figure 3. Incidence of pertussis cases by race/ethnicity and age -- California, 2010*



*As of 9/7/2010

Table 1. Incidence per 100,000 population of reported pertussis cases*, by race/ethnicity and age -- California, January 1 - September 7, 2010

	<6 mos	6 mos-6 yrs	7-9 yrs	10-18 yrs	19-64 yrs	65+ yrs
White	108.4	23.1	46.1	32.0	3.1	2.4
Hispanic	221.7	17.6	16.9	11.5	2.1	1.4
API	31.8	3.8	5.0	6.3	1.1	0.8
Black	104.7	9.8	6.1	6.0	1.0	0.9

*out of 2965 cases with known information

Table 2. Pertussis cases reported to CDPH from January 1 through September 7 by local health jurisdiction -- California, 2009, 2010

	2009		2010	
	Cases	Rate	Cases	Rate
CALIFORNIA	530	1.35	3834	9.80
ALAMEDA	15	1.05	179	12.49
City of Berkeley*	0	0.00	7	6.53
ALPINE	0	0.00	0	0.00
AMADOR	1	2.51	3	7.53
BUTTE	2	0.88	11	4.85
CALAVERAS	7	14.83	6	12.71
COLUSA	0	0.00	7	30.04
CONTRA COSTA	14	1.31	103	9.67
DEL NORTE	0	0.00	16	52.23
EL DORADO	2	1.07	39	20.93
FRESNO	20	2.07	352	36.49
GLENN	0	0.00	0	0.00
HUMBOLDT	12	8.95	16	11.94
IMPERIAL	0	0.00	8	4.33
INYO	0	0.00	2	10.48
KERN	1	0.12	229	26.84
KINGS	4	2.48	19	11.80
LAKE	0	0.00	2	3.00
LA SEN	0	0.00	0	0.00
LOS ANGELES	89	0.91	84	0.86
City of Long Beach*	8	1.62	45	9.13
City of Pasadena*	0	0.00	8	5.33
MADERA	5	3.16	99	62.56
MARIN	8	3.16	291	114.79
MARIPOSA	0	0.00	5	26.40
MENDOCINO	4	4.33	15	16.22
MERCED	5	1.87	81	30.26
MODOC	0	0.00	0	0.00
MONO	0	0.00	1	6.85
MONTEREY	1	0.23	19	4.41
NAPA	8	5.68	15	10.65
NEVADA	0	0.00	6	5.89
ORANGE	34	1.07	279	8.75
PLACER	7	2.05	45	13.21
PLUMAS	0	0.00	2	9.20
RIVERSIDE	34	1.56	158	7.25
SACRAMENTO	17	1.18	67	4.66
SAN BENITO	2	3.20	1	1.60
SAN BERNARDINO	7	0.33	36	1.69
SAN DIEGO	82	2.59	369	11.64
SAN FRANCISCO	21	2.58	57	7.00
SAN JOAQUIN	5	0.69	47	6.49
SAN LUIS OBISPO	0	0.00	324	120.91
SAN MATEO	10	1.36	86	11.71
SANTA BARBARA	21	4.88	35	8.13
SANTA CLARA	11	0.60	188	10.31
SANTA CRUZ	27	10.12	51	19.12
SHASTA	0	0.00	7	3.70
SIERRA	0	0.00	0	0.00
SISKIYOU	1	2.13	7	14.94
SOLANO	2	0.46	10	2.29
SONOMA	13	2.65	177	36.02
STANISLAUS	12	2.18	101	18.38
SUTTER	2	2.00	4	4.00
TEHAMA	1	1.55	1	1.55
TRINITY	0	0.00	0	0.00
TULARE	8	1.75	70	15.33
TUOLUMNE	0	0.00	9	15.40
VENTURA	3	0.35	20	2.36
YOLO	3	1.48	11	5.43
YUBA	1	1.27	4	5.10

*City health jurisdictions not included in county total