



Pertussis Report

November 4, 2013

- **2013: 1,576 cases with onset in 2013** have been reported to CDPH (Table 1).
 - Statewide there has been an increase in reported pertussis cases. More cases have been reported in 2013 than in the entire year of 2012 (Figures 1 and 2).
 - 93 (6%) cases have been hospitalized
 - 60 (65%) of these are infants <4 months of age.
 - No deaths have been reported, to date.
 - The majority of cases (1,295; 82%) have occurred in infants and children <18 years of age. There have been relatively more cases reported in older adolescents than was reported in 2010 (Figure 3).
 - 162 (13%) of pediatric cases were infants <6 months of age.
 - 765 (59%) of pediatric cases were children/adolescents 7-16 years of age.
 - Rates by race/ethnicity are similar for White and Hispanic infants <1 year of age and lower for Asians/Pacific Islander and Black infants (Figure 4). Among adolescents, the highest rates are in White, non-Hispanics.

- **2012: 1,023 cases with onset in 2012** have been reported to CDPH.
 - 97 (10%) cases hospitalized.
 - No deaths reported.

- **2011: 3,013 cases with onset in 2011** have been reported to CDPH.
 - 294 (10%) cases hospitalized.
 - No deaths reported.

- **2010: 9,163 cases with onset in 2010** have been reported to CDPH.
 - 808 (9%) cases hospitalized
 - Ten deaths were reported; 9 (90%) were Hispanic infants.
 - The case-fatality rate among infants <3 months of age was 1.3%.

Table 1. Pertussis cases by year of onset and local health jurisdiction -- California, 2010-2013*

	2010¶		2011¶		2012¶		2013*	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
CALIFORNIA	9163	24.56	3013	8.02	1023	2.70	1576	4.17
ALAMEDA	424	30.28	206	14.59	62	4.35	91	6.38
City of Berkeley†	13	11.51	3	2.62	6	5.20	8	6.95
ALPINE	0	0.00	0	0.00	0	0.00	0	0.00
AMADOR	4	10.57	11	29.50	1	2.71	2	5.42
BUTTE	32	14.55	16	7.26	3	1.36	1	0.45
CALAVERAS	9	19.80	5	11.08	0	0.00	2	4.44
COLUSA	11	51.22	1	4.65	0	0.00	0	0.00
CONTRA COSTA	205	19.48	114	10.74	24	2.24	60	5.61
DEL NORTE	16	56.05	0	0.00	0	0.00	0	0.00
EL DORADO	54	29.85	11	6.09	3	1.66	3	1.66
FRESNO	550	58.99	58	6.17	16	1.69	21	2.22
GLENN	1	3.55	1	3.54	0	0.00	0	0.00
HUMBOLDT	59	43.81	15	11.09	1	0.74	5	3.71
IMPERIAL	9	5.13	3	1.69	8	4.48	3	1.68
INYO	8	43.18	0	0.00	1	5.37	0	0.00
KERN	377	44.82	51	6.01	2	0.23	21	2.45
KINGS	26	17.03	6	3.96	0	0.00	1	0.66
LAKE	5	7.74	3	4.66	2	3.11	6	9.32
LASSEN	1	2.85	0	0.00	0	0.00	0	0.00
LOS ANGELES	1303	14.12	609	6.58	210	2.26	63	0.68
City of Long Beach‡	68	14.70	17	3.66	4	0.86	8	1.72
City of Pasadena‡	24	17.54	15	10.80	1	0.72	2	1.44
MADERA	120	79.30	8	5.26	0	0.00	9	5.93
MARIN	351	138.88	26	10.22	5	1.96	149	58.46
MARIPOSA	10	54.97	1	5.56	0	0.00	0	0.00
MENDOCINO	27	30.71	3	3.41	0	0.00	1	1.13
MERCED	131	51.18	27	10.41	0	0.00	1	0.38
MODOC	0	0.00	0	0.00	0	0.00	0	0.00
MONO	18	126.40	2	13.98	21	147.29	2	14.03
MONTEREY	132	31.71	38	9.05	17	4.02	35	8.28
NAPA	25	18.27	11	7.99	6	4.33	14	10.10
NEVADA	23	23.32	2	2.03	5	5.09	71	72.30
ORANGE	499	16.54	142	4.66	74	2.41	71	2.31
PLACER	80	22.84	19	5.33	11	3.05	69	19.13
PLUMAS	2	10.04	4	20.05	0	0.00	0	0.00
RIVERSIDE	467	21.31	166	7.48	46	2.05	52	2.32
SACRAMENTO	175	12.32	69	4.82	36	2.50	58	4.03
SAN BENITO	7	12.65	3	5.36	1	1.77	1	1.77
SAN BERNARDINO	182	8.93	115	5.60	54	2.61	27	1.31
SAN DIEGO	1141	36.77	399	12.77	159	5.05	146	4.64
SAN FRANCISCO	141	17.49	70	8.61	30	3.66	40	4.88
SAN JOAQUIN	84	12.23	27	3.90	15	2.15	25	3.58
SAN LUIS OBISPO	371	137.55	15	5.55	14	5.17	13	4.80
SAN MATEO	191	26.54	57	7.83	23	3.12	89	12.09
SANTA BARBARA	66	15.56	18	4.23	11	2.57	21	4.91
SANTA CLARA	478	26.76	176	9.74	45	2.46	227	12.41
SANTA CRUZ	87	33.05	22	8.28	13	4.86	37	13.83
SHASTA	32	18.03	27	15.16	2	1.12	7	3.92
SIERRA	0	0.00	0	0.00	0	0.00	0	0.00
SISKIYOU	10	22.28	0	0.00	2	4.48	5	11.21
SOLANO	40	9.68	12	2.90	10	2.40	14	3.37
SONOMA	246	50.82	116	23.83	18	3.68	35	7.15
STANISLAUS	159	30.86	43	8.30	11	2.10	7	1.34
SUTTER	5	5.28	1	1.06	0	0.00	2	2.10
TEHAMA	10	15.75	1	1.57	0	0.00	0	0.00
TRINITY	0	0.00	0	0.00	0	0.00	0	0.00
TULARE	230	51.91	77	17.20	27	5.98	20	4.43
TUOLUMNE	32	58.03	4	7.27	1	1.84	1	1.84
VENTURA	372	45.09	162	19.51	15	1.80	23	2.76
YOLO	17	8.44	5	2.47	6	2.94	3	1.47
YUBA	3	4.15	0	0.00	1	1.37	4	5.48

*Includes cases reported to CDPH as of 11/4/2013

¶Data have been updated from previous reports; population denominator data from the Department of Finance have been standardized with 2010 Census data

‡City health jurisdictions not included in county total

Figure 1. Number and incidence of reported pertussis cases by year of onset -- California, 1947-2013*

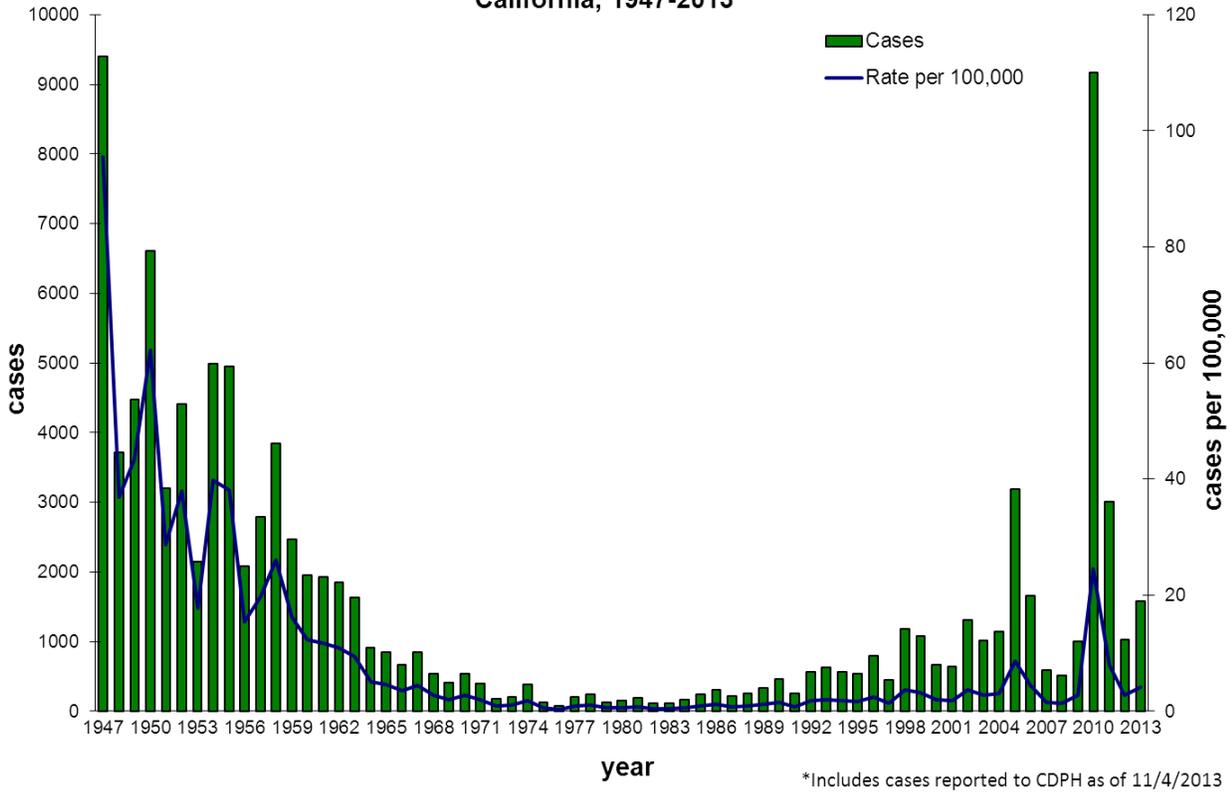


Figure 2. Pertussis cases by month of onset -- California, 2009-2013*

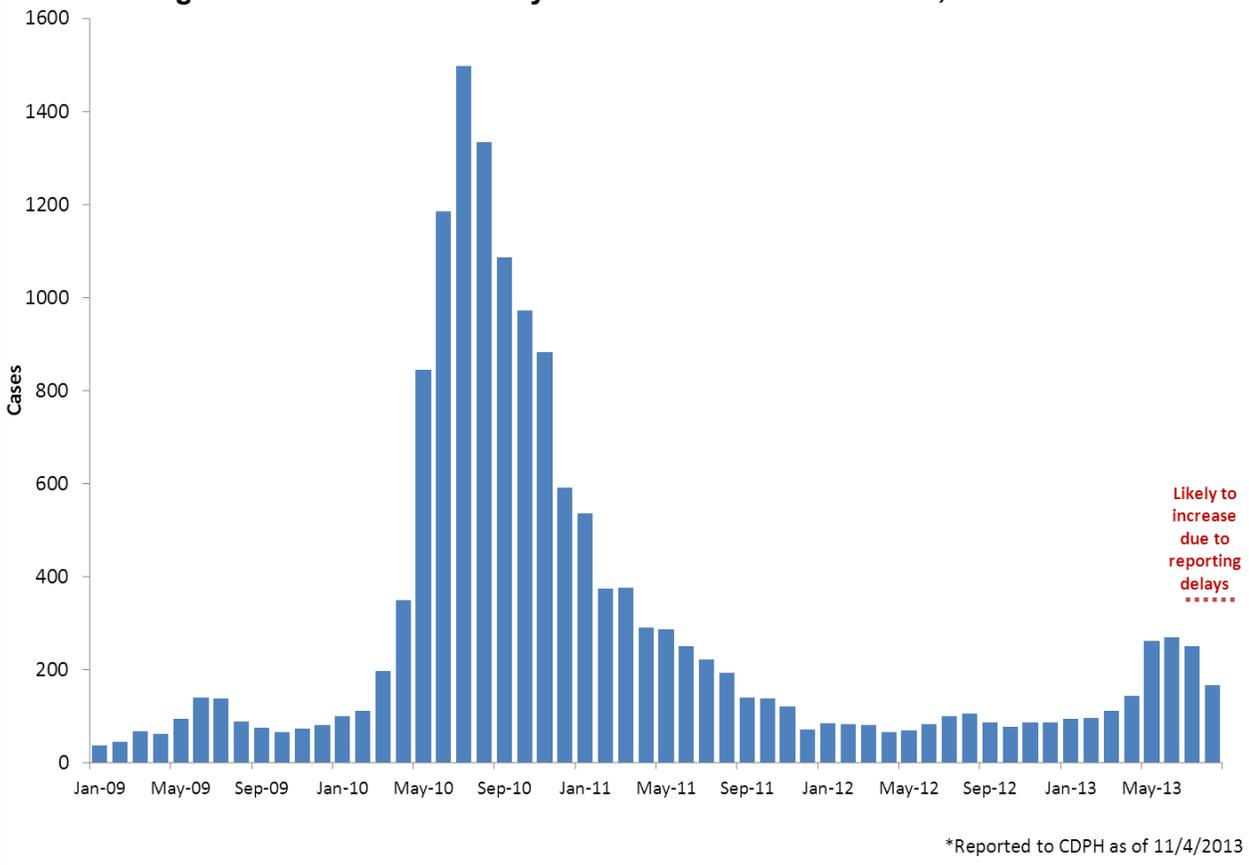
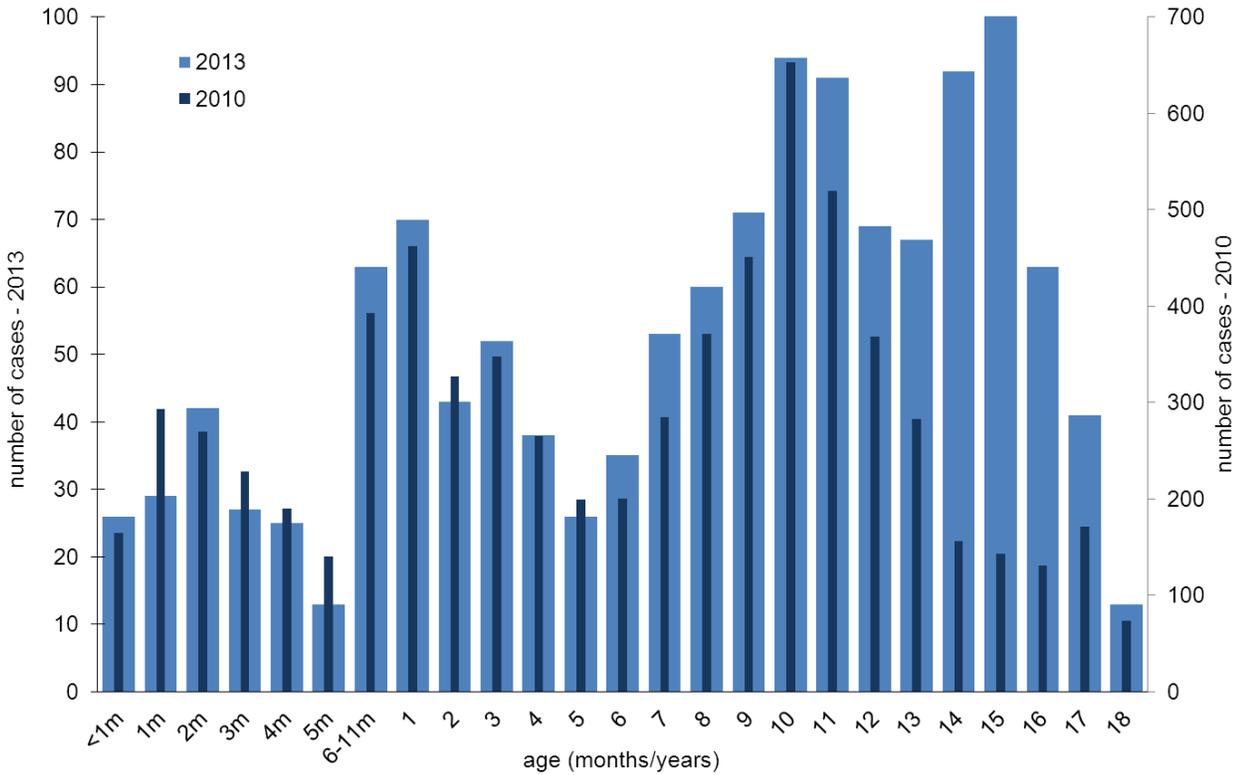
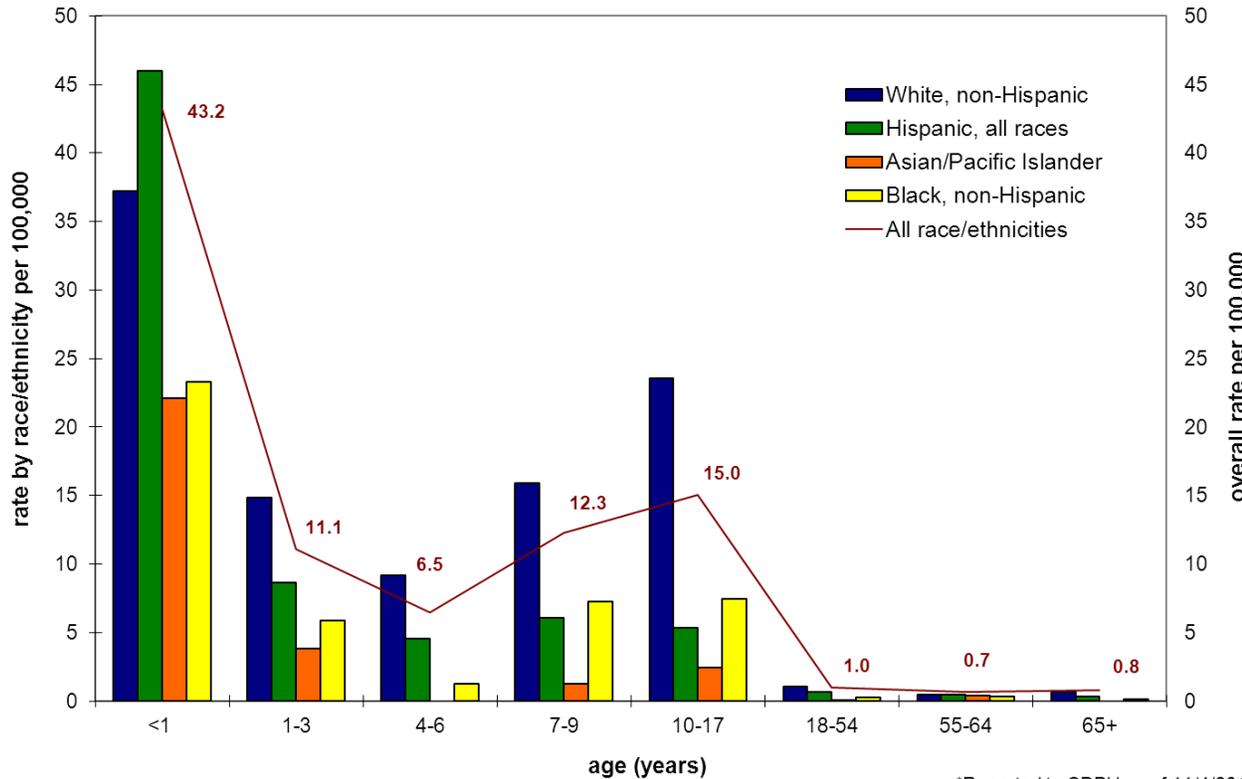


Figure 3. Pediatric pertussis cases by age - California 2010 and 2013*



*2010 (full year), n=7,087; 2013 (through 11/4/2013), n=1,295

Figure 4. Pertussis rates by age and race/ethnicity -- California, 2013*



*Reported to CDPH as of 11/4/2013