

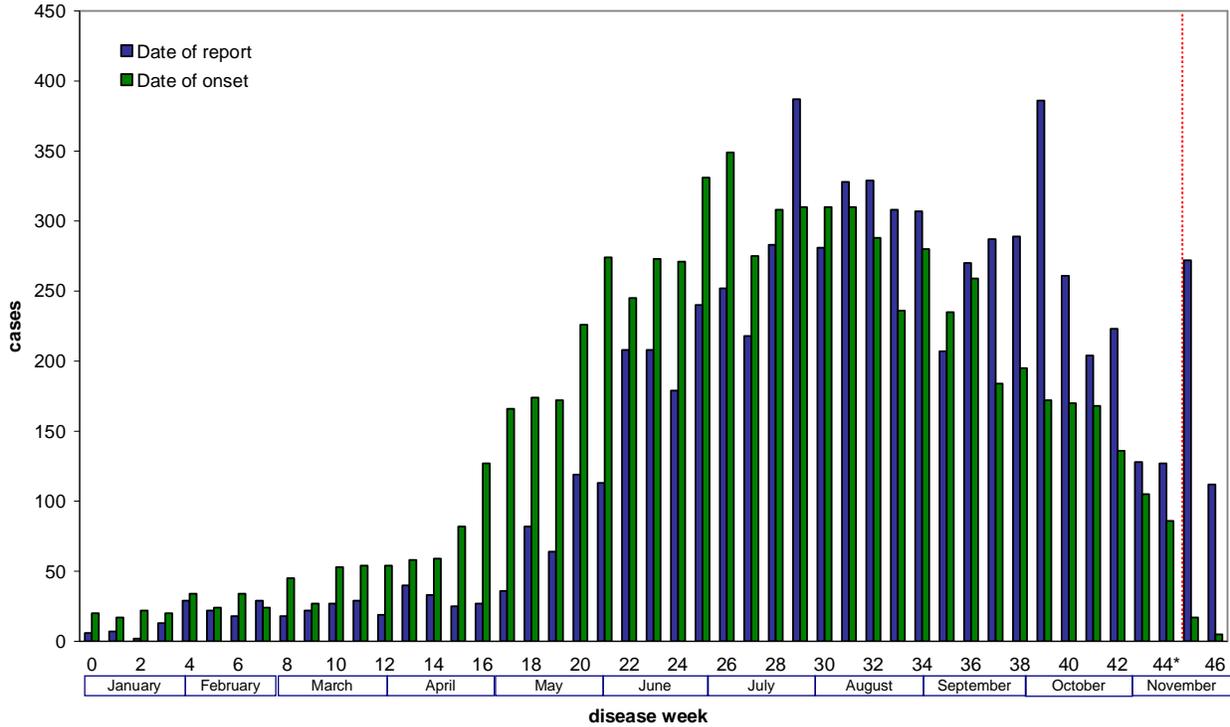


Pertussis Report

November 30, 2010

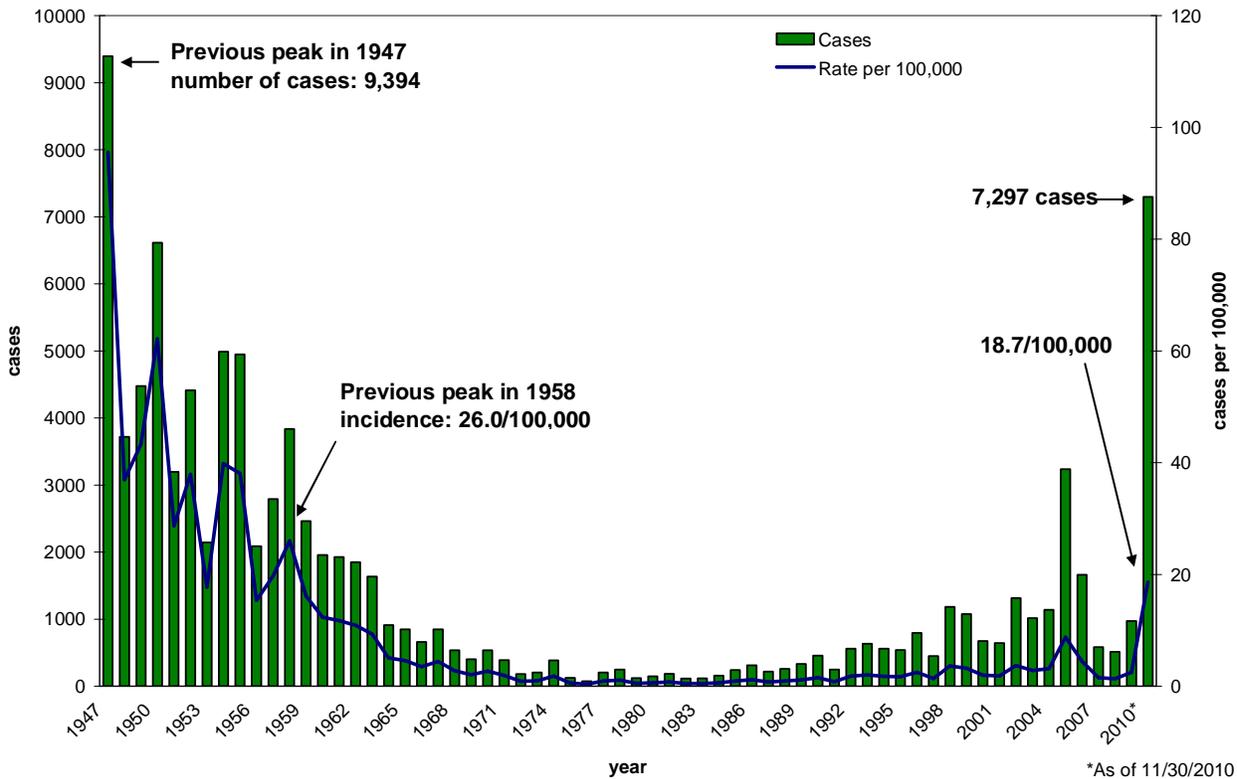
- **New in this report:** Disease activity is slowing statewide, however relatively high numbers of cases continue to be reported each week
- **7,297** confirmed, probable and suspect cases of pertussis with onset from January 1 through November 30, 2010 reported to CDPH for a state rate of **18.7 cases/100,000**.
 - 502 new cases have been reported to CDPH since November 16, however some of these were catch-up reporting of prior-incident cases (Figure 1).
 - Case Classification:
 - Confirmed: ~63%
 - 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 39% of cases with known hospitalization information, 300 (11%) cases have been hospitalized
 - 174 (58%) of hospitalized cases were infants <3 months of age and 225 (75%) were infants <6 months of age.
 - 169 (75%) 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 1.6%.
- Rates are highest in infants <6 months of age (361.9 cases/100,000), in children aged 6 months to 6 years (46.0 cases/100,000), 7-9 years (54.0 cases/100,000) and adolescents aged 10-18 years (39.6 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 (19.3/100,000) and whites (15.7/100,000), however age-specific rates indicate that the highest rates are seen in Hispanic infants <6 months of age (446.1/100,000) (Figures 3 and 4).
- The median case rate by county is 15.4 cases per 100,000 (range 0-140) (Figure 5 and Table 1).

Figure 1. Epidemic curve of pertussis cases* by weeks of report and onset -- California, January 1 through November 30, 2010



*Includes cases residing in Los Angeles County that were reported to the county public health department through week 44

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



*As of 11/30/2010

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

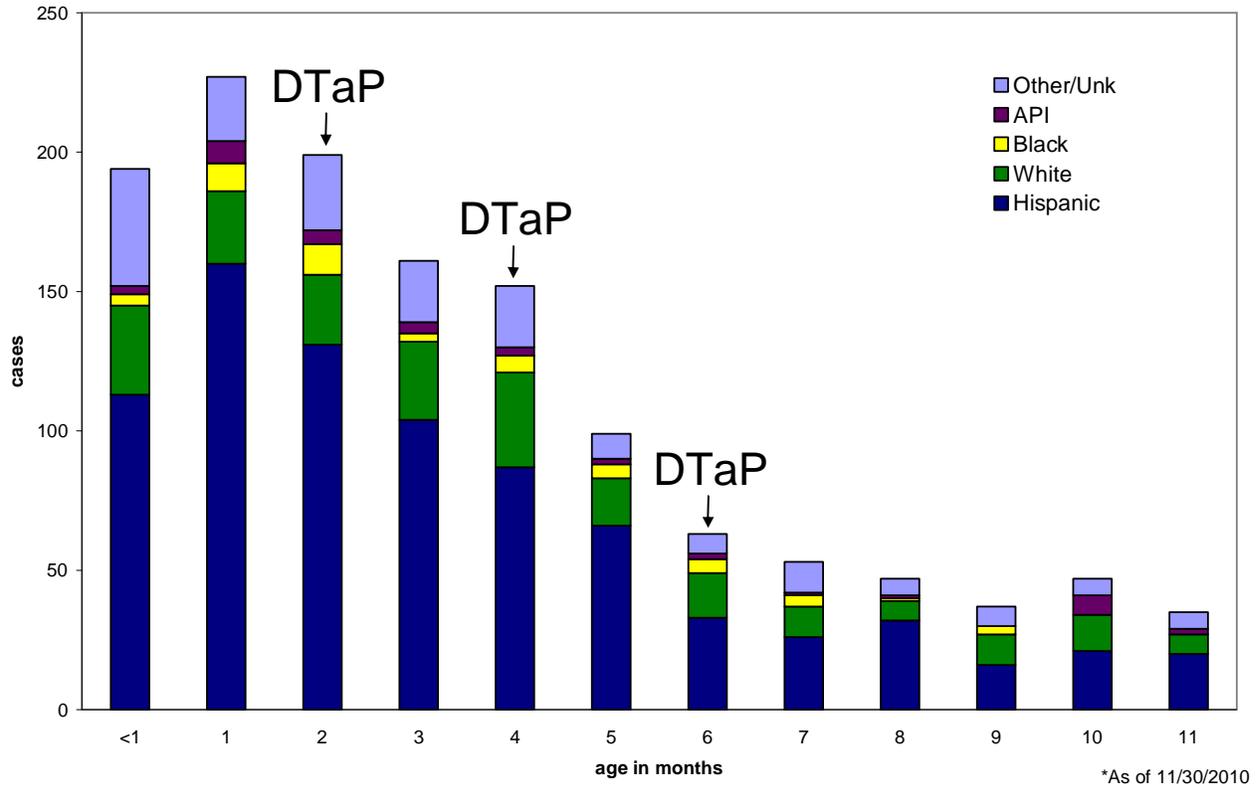


Figure 4. Incidence of pertussis cases by race/ethnicity and age -- California, 2010*

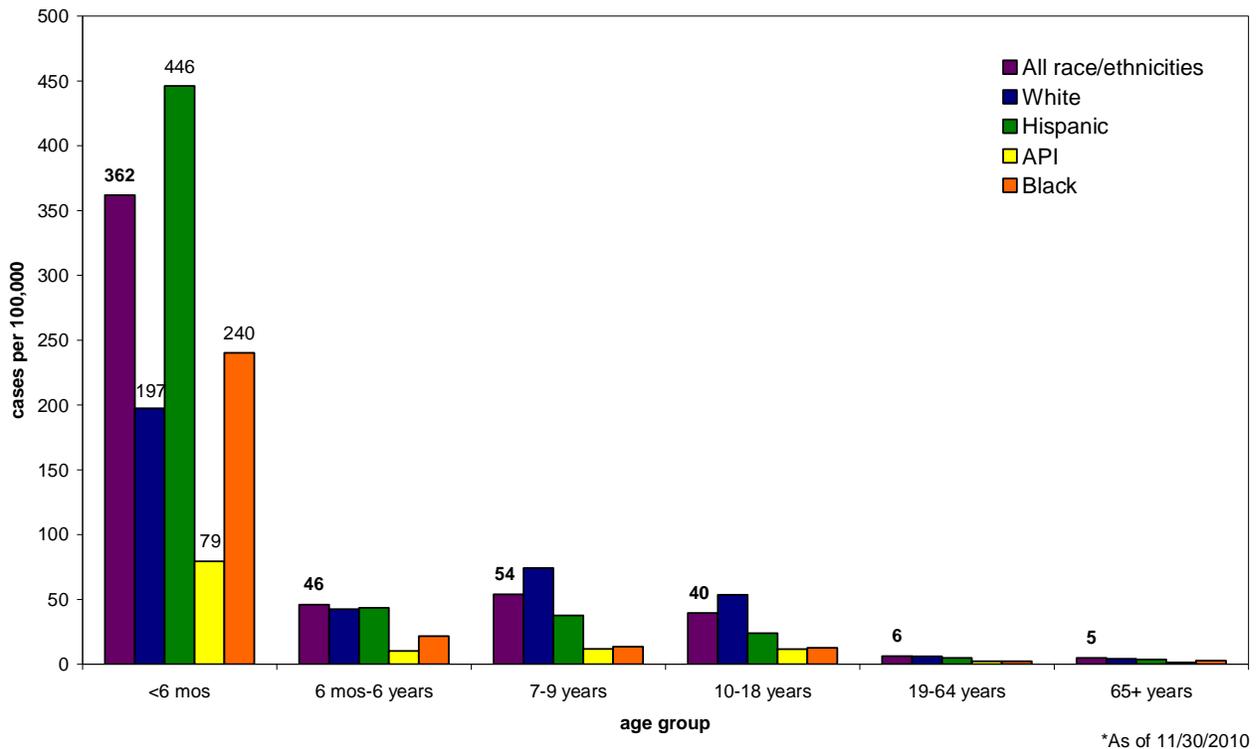


Figure 5. Pertussis rates by county – California, January 1 – November 30, 2010

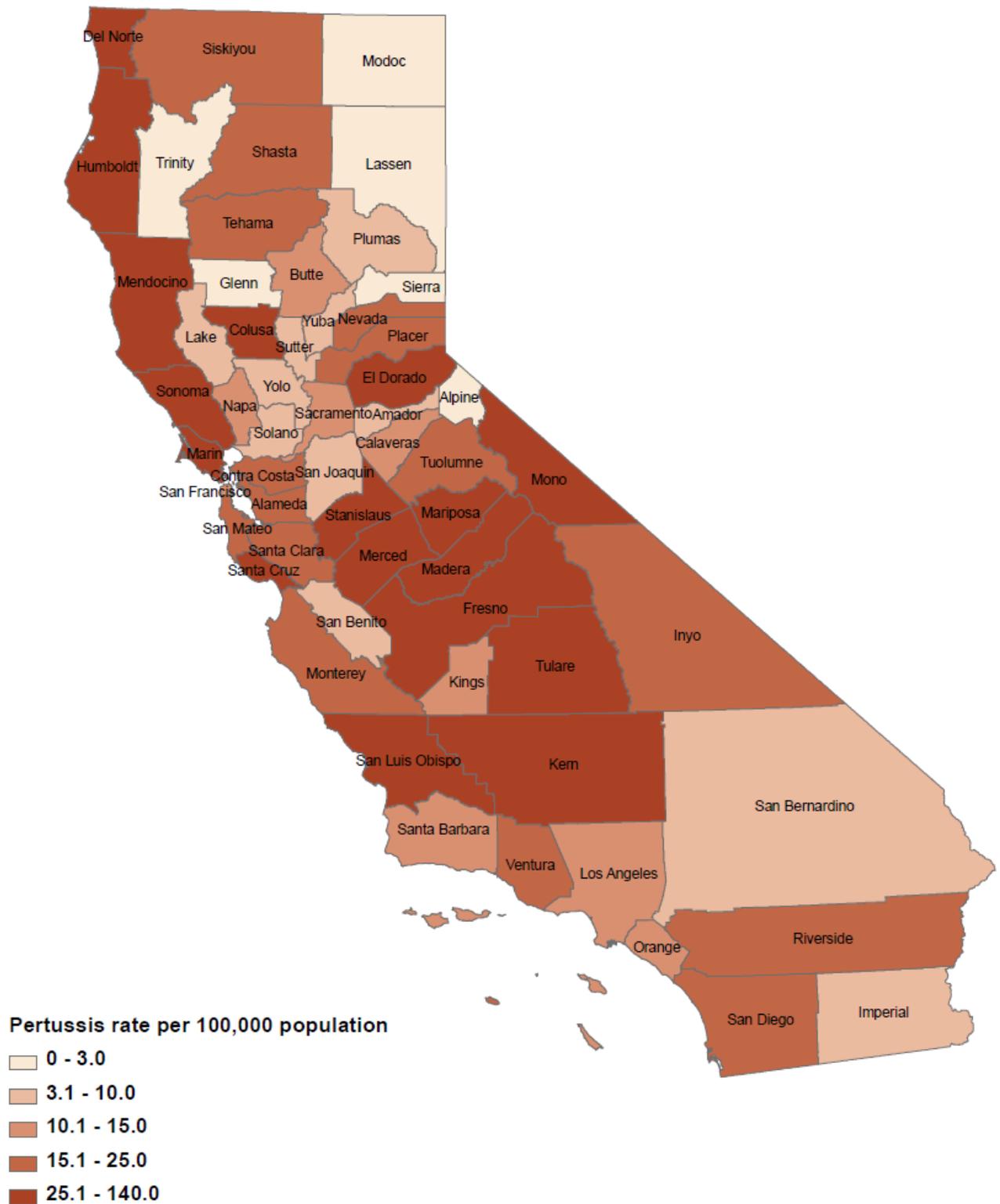


Table 1. Pertussis cases with onset from January 1 through November 30, 2010 reported to CDPH by local health jurisdiction -- California, 2010

	2010	
	Cases	Rate
CALIFORNIA	7297	18.65
ALAMEDA	345	24.07
City of Berkeley*	13	12.13
ALPINE	0	0.00
AMADOR	3	7.53
BUTTE	32	14.11
CALAVERAS	7	14.83
COLUSA	11	47.20
CONTRA COSTA	169	15.87
DEL NORTE	16	52.23
EL DORADO	49	26.30
FRESNO	525	54.42
GLENN	0	0.00
HUMBOLDT	51	38.05
IMPERIAL	10	5.41
INYO	3	15.72
KERN	340	39.85
KINGS	21	13.04
LAKE	4	5.99
LASSEN	0	0.00
LOS ANGELES**	1122	11.44
City of Long Beach*	70	14.21
City of Pasadena*	17	11.32
MADERA	122	77.09
MARIN	343	135.30
MARIPOSA	10	52.81
MENDOCINO	31	33.53
MERCED	121	45.20
MODOC	0	0.00
MONO	5	34.27
MONTEREY	65	15.10
NAPA	19	13.49
NEVADA	23	22.59
ORANGE	440	13.79
PLACER	55	16.14
PLUMAS	2	9.20
RIVERSIDE	354	16.25
SACRAMENTO	153	10.64
SAN BENITO	4	6.41
SAN BERNARDINO	102	4.77
SAN DIEGO	677	21.36
SAN FRANCISCO	114	14.00
SAN JOAQUIN	67	9.25
SAN LUIS OBISPO	374	139.57
SAN MATEO	155	21.11
SANTA BARBARA	58	13.46
SANTA CLARA	343	18.81
SANTA CRUZ	68	25.49
SHASTA	30	15.86
SIERRA	0	0.00
SISKIYOU	10	21.34
SOLANO	14	3.21
SONOMA	228	46.40
STANISLAUS	139	25.30
SUTTER	5	5.00
TEHAMA	11	17.02
TRINITY	0	0.00
TULARE	138	30.22
TUOLUMNE	9	15.40
VENTURA	179	21.14
YOLO	16	7.89
YUBA	5	6.37

*City health jurisdictions not included in county total

**Includes cases reported to LAC DPH as of 11/12/2010