

## **Pertussis Report**

May 11, 2017

Young infants are at greatest risk of hospitalization and death from pertussis, therefore pregnant women are encouraged to receive pertussis vaccine (Tdap) during the 3rd trimester of every pregnancy. Pertussis antibodies are transferred from vaccinated mothers to their infants and will help protect them until they are old enough to be vaccinated. The primary DTaP vaccine series is essential for reducing severe disease in young infants and should not be delayed. DTaP can be given to infants at an accelerated schedule with the first dose given as early as 6 weeks of age. Even one dose of DTaP may offer some protection against severe pertussis disease and death in infants.

- 1,830 cases with onset in 2016 were reported to CDPH for a state rate of 4.7 cases per 100,000 population (Table 1, Figures 1-3). Data for 2016 are still provisional.
  - o 108 cases were hospitalized; 18 (19%) of these required intensive care
    - 44 (47%) of hospitalized patients were infants <4 months of age.
  - Two deaths have been reported in infants that younger than 3 months of age at the time of disease onset.
  - Overall pertussis rates were highest for infants <1 year of age and older children and adolescents and teens 14-17 years of age (Figure 4). Rates by race/ethnicity are highest for White and Hispanic infants <6 months of age and White, non-Hispanic adolescents and teens aged 10-17 years of age (Figure 5).
- **495 cases with onset in 2017** have been reported to CDPH for a state rate of 1.3 cases per 100,000 population (Figure 2).
  - On possible death was reported in a 7 year-old child that had multiple severe underlying medical complications as well as RSV infection.
  - <u>Historical surveillance data</u> is available at:
     https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/disease.aspx

Table 1. Pertussis cases and rate\* by year of onset and local health jurisdiction -- California 2016\*\*

All ages Infants <4 months of age

ALAMEDA		All ages			Infants <4 months of age		
ALAMEDA			Hospitalizations	Deaths	Rate**		Rate§
CLIYOF Berkeley4				2			
ALPINE							0.5
AMADOR         2         0         5.4         0         —           BUTTE         2         1         0.9         0         —           CALAYERAS         2         0         4.5         0         —           COLUSA         0         0         0.0         0         —           CONTRA COSTA         48         4         4.43         3         0.7         0         —           ELDORADO         9         1         4.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.9         1         1.3         1         1.3         1         1.3         1.1         1.3 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>—</b> ,</td>	•						<b>—</b> ,
BUTTE							<b>—</b> ,
CALAVERAS         2         0         4.5         0         —           COLUSA         0         0         0         0         0         —           COLUSA         0         0         0         0         0         0         —           DEL NORTE         0         0         0         0         0         —         —           EL DORADO         9         1         4.9         1         1.9         —	-						<b>—</b> ,
COLUSA         0         0         0.0         0         —           CONTRA COSTA         48         4         4.3         3         0.7           DEL NORTE         0         0.0         0         0         7           EL DORADO         9         1         4.9         1         1.9           FRESNO         16         1         1.6         1         0.2           GLENN         1         0         0.7         0            HUMBOLDT         1         0         0.7         0            IMPERIAL         4         2         2.2         0            INYO         0         0         0.0         0            KERN         27         4         1 3.1         2         0.4           KINGS         7         2         4.7         1         1.3         1         1         1.5         0            LASSEN         0         0         0         0.0         0          LASSEN         0         0         0          LASSEN         0          LASSEN         0         0							<b>—</b> ,
CONTRA COSTA							<b>—</b> ,
DEL NORTE							<b>—</b> ,
EL DORADO 9 1 4.9 1 1.9 FRESNO 16 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.6 1 0.0 1.7 1 0 0.0 1.7 1 0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0							0.7
FRESNO 16 1 1 1.6 1 0.2 GLENN 1 1 0 3.4 0 — GLENN 1 1 0 0.7 0 0 — IMPERIAL 1 4 2 2.2 2.2 0 0 — IMPERIAL 1 4 2 2.2 2.2 0 0 — IMPERIAL 1 4 2 2.2 2.2 0 0 — IMPERIAL 1 4 1 1 3.1 1.2 0.4 KINGS 7 2 2 4.7 1 1 1.3 LAKE 1 1 1 1.5 0 — LASSEN 0 0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0							<b>—</b> ,
GLENN							
HUMBOLDT							0.2
IMPERIAL							<b>—</b> ,
INYO							<b>—</b> ,
KERN         27         4         1         3.1         2         0.4           KINGS         7         2         4.7         1         1.3           LAKE         1         1         1.55         0         —           LOS ANGELES         205         10         0.2.1         19         0.4           City of Long Beach‡         13         5         2.2.7         3         —           City of Pasadena‡         5         1         3.55         1         —           MARIN         30         0         11.5         0         —           MARIN         30         0         11.5         0         —           MENDOCINO         8         0         9.1         0         —           MENCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONO         0         0         0.0         0         —           NEVA							<b>—</b> ,
KINGS         7         2         4.7         1         1.3           LAKE         1         1         1.5         0            LASSEN         0         0         0.0         0         0           LOS ANGELES         205         10         2.1         19         0.4           City of Pasadena‡         13         5         2.7         3            MDERA         3         1         1.9         0            MARIN         30         0         11.5         0            MARIN         30         0         11.5         0            MENDOCINO         8         0         9.1         0            MERCED         1         0         0.4         0            MENDOCINO         8         0         9.1         0            MENDOCINO         8         0         9.1         0            MENDOCINO         0         0.0         0         0            MODOC         0         0         0.0         0            MONTEREY							<b>—</b> ,
LAKE         1         1         1.5         0         —           LASSEN         0         0         0.0         0         —           LOS ANGELES         205         10         2.1         19         0.4           City of Long Beach‡         13         5         2.7         3         —           City of Pasadena‡         5         1         3.5         1         —           MADERA         3         1         1.99         0         —           MARIN         30         0         11.5         0         —           MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA				1			
LASSEN         0         0         0.0         0         −           LOS ANGELES         205         10         2.1         19         0.4           City of Long Beach‡         13         5         2.7         3         −           City of Pasadena‡         5         1         3.5         1         −           MADERA         3         1         1.99         0         −           MARIN         30         0         11.5         0         −           MARIPOSA         1         1         1.55         1         19.2           MENDOCINO         8         0         9.1         0         −           MERCED         1         0         0.4         0         −           MODOC         0         0         0.0         0         −           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         −           NEVADA         42         2         42.9         3         11.7           PLACER         17         1         4.6         0         −           PLACER<							1.3
LOS ANGELES         205         10         2.1         19         0.4           City of Long Beach‡         13         5         2.7         3         —           City of Pasadena‡         5         1         3.5         1         —           MADERA         3         1         1.99         0         —           MARIN         30         0         11.5         0         —           MARIPOSA         1         1         5.55         1         19.2           MENDOCINO         8         0         9.1         0         —           MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MODOC         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           MAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE<							<b>—</b> ,
City of Long Beach‡         13         5         2.7         3         −           City of Pasadena‡         5         1         3.5         1         −           MADERA         3         1         1.99         0         −           MARIN         30         0         11.5         0         −           MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         −           MERCED         1         0         0.4         0         −           MODOC         0         0         0.0         0         −           MONO         0         0         0.0         0         −           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         −           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLUMAS         0         0         0.0         0         0         − <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><b>—</b> ,</td></t<>							<b>—</b> ,
City of Pasadena‡         5         1         3.5         1         —           MADERA         3         1         1.9         0         —           MARIN         30         0         11.5         0         —           MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         —           MENDOCINO         8         0         9.1         0         —           MENDOCINO         0         0.0         0.0         0         —           MENDOCINO         0         0.0         0.0         0         —           MENDOCINO         0         0.0         0.0         0         —           MODOC         0         0         0.0         0         —           MODOC         0         0         0.0         0         —         —           MONTEREY         16         1         3.7         2         0.9         9         1         1         0         —         —         NEVADA         42         2         42.9         3         11.7         0         9         1         1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.4</td>							0.4
MADERA         3         1         1.9         0         —           MARIN         30         0         11.5         0         —           MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           NEVADA         42         2         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BERNADINO         32         6         1.5         2         0.2 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><b>—</b> ,</td></th<>							<b>—</b> ,
MARIN         30         0         11.5         0         —           MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3         3.3           SAN BENITO	•						<b>—</b> ,
MARIPOSA         1         1         5.5         1         19.2           MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SAN BENITO         71         1         4.8         3         0.5           SAN BERNARDINO         32         6         1.5         2         0.2           SAN FRANCISCO							<b>—</b> ,
MENDOCINO         8         0         9.1         0         —           MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BERNARDINO         32         6         1.5         2         0.2           SAN TEGO         390         13         1         11.9         27         1.9							<b>—</b> ,
MERCED         1         0         0.4         0         —           MODOC         0         0         0.0         0         —           MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           MAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN DIEGO         390         13         1 11.9         27         1.9           SAN TEGO         7         1         0.8         2         0.7           SAN SAN LUIS OB							19.2
MODOC         0         0         0.0         0         -           MONO         0         0         0.0         0         -           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         -           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         -           PLUMAS         0         0         0.0         0         -           PLUMAS         0         0         0.0         0         -           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN FRANCISCO         7         1         0.8         2         0.7           SAN LUIS OB							<b>—</b> ,
MONO         0         0         0.0         0         —           MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BERITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —							<b>—</b> ,
MONTEREY         16         1         3.7         2         0.9           NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN LUIS OBISPO         29         2         10.5         0         —           SANTA CLARA         232         6         12.1         4         0.5 </td <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td>0</td> <td><b>—</b> ,</td>					0.0	0	<b>—</b> ,
NAPA         5         0         3.5         0         —           NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1         11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN LUIS OBISPO         29         2         10.5         0         —           SANTA BARBARA         10         2         12.2         2         1.0           SANTA CLARA         232         6         12.1         4							<b>—</b> ,
NEVADA         42         2         42.9         3         11.7           ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BERITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         — <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.9</td>							0.9
ORANGE         69         17         2.2         12         1.0           PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA CLARA         232         6         12.1         4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><b>—</b> ,</td></td<>							<b>—</b> ,
PLACER         17         1         4.6         0         —           PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN MATEO         109         2         14.3         2         0.7           SANTA CLARA         232         6         12.1         4							
PLUMAS         0         0         0.0         0         —           RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1.0</td></t<>							1.0
RIVERSIDE         82         7         3.5         13         1.3           SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         8.4         0							<b>—</b> ,
SACRAMENTO         71         1         4.8         3         0.5           SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SONOMA         42         0         8.4         0         —<							
SAN BENITO         9         1         15.6         1         3.9           SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         —           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SONOMA         42         0         8.4         0         — </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
SAN BERNARDINO         32         6         1.5         2         0.2           SAN DIEGO         390         13         1         11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         —           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2							
SAN DIEGO         390         13         1 11.9         27         1.9           SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         —           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0							
SAN FRANCISCO         7         1         0.8         2         0.7           SAN JOAQUIN         4         0         0.5         1         0.3           SAN LUIS OBISPO         29         2         10.5         0         —           SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         —           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SOLANO         14         0         3.3         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         —							
SAN JOAQUIN       4       0       0.5       1       0.3         SAN LUIS OBISPO       29       2       10.5       0       —         SAN MATEO       109       2       14.3       2       0.7         SANTA BARBARA       10       2       2.2       2       2       1.0         SANTA CLARA       232       6       12.1       4       0.5         SANTA CRUZ       46       1       16.8       0       —         SHASTA       25       0       14.0       1       1.4         SIERRA       0       0       0.0       0       —         SISKIYOU       0       0       0.0       0       —         SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9				1			
SAN LUIS OBISPO       29       2       10.5       0       —         SAN MATEO       109       2       14.3       2       0.7         SANTA BARBARA       10       2       2.2       2       1.0         SANTA CLARA       232       6       12.1       4       0.5         SANTA CRUZ       46       1       16.8       0       —         SHASTA       25       0       14.0       1       1.4         SIERRA       0       0       0.0       0       —         SISKIYOU       0       0       0.0       0       —         SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9							
SAN MATEO         109         2         14.3         2         0.7           SANTA BARBARA         10         2         2.2         2         1.0           SANTA CLARA         232         6         12.1         4         0.5           SANTA CRUZ         46         1         16.8         0         —           SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SOLANO         14         0         3.3         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         —           TEHAMA         4         1         6.3         1         3.9		-					0.3
SANTA BARBARA       10       2       2.2       2       1.0         SANTA CLARA       232       6       12.1       4       0.5         SANTA CRUZ       46       1       16.8       0       —         SHASTA       25       0       14.0       1       1.4         SIERRA       0       0       0.0       0       —         SISKIYOU       0       0       0.0       0       —         SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9							
SANTA CLARA       232       6       12.1       4       0.5         SANTA CRUZ       46       1       16.8       0       —         SHASTA       25       0       14.0       1       1.4         SIERRA       0       0       0.0       0       —         SISKIYOU       0       0       0.0       0       —         SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9							
SANTA CRUZ       46       1       16.8       0       —         SHASTA       25       0       14.0       1       1.4         SIERRA       0       0       0.0       0       —         SISKIYOU       0       0       0.0       0       —         SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9							
SHASTA         25         0         14.0         1         1.4           SIERRA         0         0         0.0         0         -           SISKIYOU         0         0         0.0         0         -           SOLANO         14         0         3.3         0         -           SONOMA         42         0         8.4         0         -           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         -           TEHAMA         4         1         6.3         1         3.9							0.5
SIERRA         0         0         0.0         0         —           SISKIYOU         0         0         0.0         0         —           SOLANO         14         0         3.3         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         —           TEHAMA         4         1         6.3         1         3.9							
SISKIYOU         0         0         0.0         0         —           SOLANO         14         0         3.3         0         —           SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         —           TEHAMA         4         1         6.3         1         3.9							1.4
SOLANO       14       0       3.3       0       —         SONOMA       42       0       8.4       0       —         STANISLAUS       13       1       2.4       2       0.8         SUTTER       2       0       2.0       0       —         TEHAMA       4       1       6.3       1       3.9							
SONOMA         42         0         8.4         0         —           STANISLAUS         13         1         2.4         2         0.8           SUTTER         2         0         2.0         0         —           TEHAMA         4         1         6.3         1         3.9							
STANISLAUS     13     1     2.4     2     0.8       SUTTER     2     0     2.0     0     -       TEHAMA     4     1     6.3     1     3.9							
SUTTER         2         0         2.0         0         -           TEHAMA         4         1         6.3         1         3.9							
TEHAMA 4 1 6.3 1 3.9							0.8
							2.0
TRINITY 1 0 7.4 0 —		1	0				3.9
							0.4
							0.4
TUOLUMNE 0 0 0.0 0 — VENTURA 36 6 4.2 0 —							<del>-</del> ,
YOLO 43 1 20.2 4 5.0							<u> </u>
YUBA 1 0 1.3 0 —							5.0
*Includes cases reported to CDPH as of 5/11/2017					1.0		

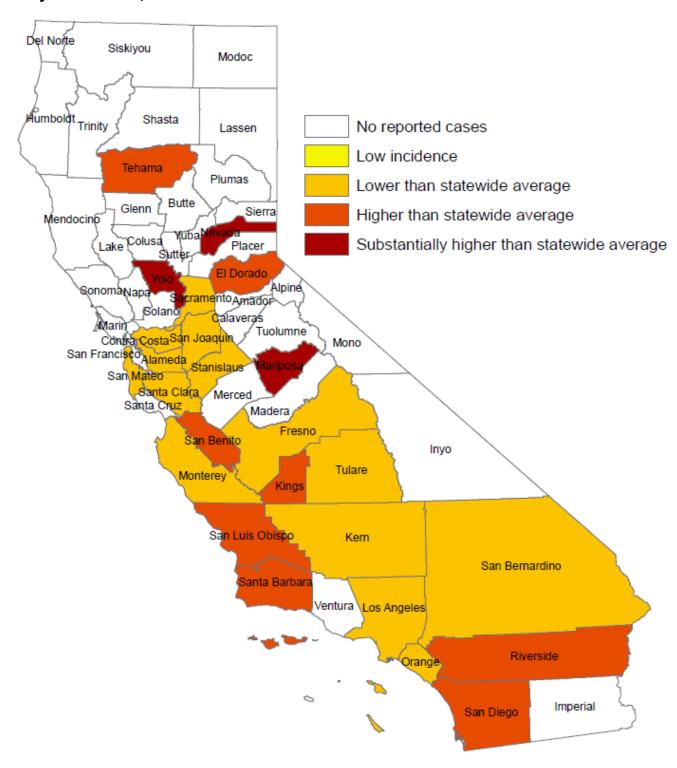
<sup>\*</sup>Includes cases reported to CDPH as of 5/11/2017

<sup>\*\*</sup>Incident case rate per 100,000 persons

<sup>§</sup>Incident case rate per 1,000 births

<sup>‡</sup>City health jurisdictions not included in county total

Figure 1. Pertussis incidence among infants <4 months of age per 1,000 population, by county – California, 2016\*



\*Reported to CDPH as of 1/23/2017; data still provisional.

