

2013

# Report on Tuberculosis in California, 2013

California Department of Public Health

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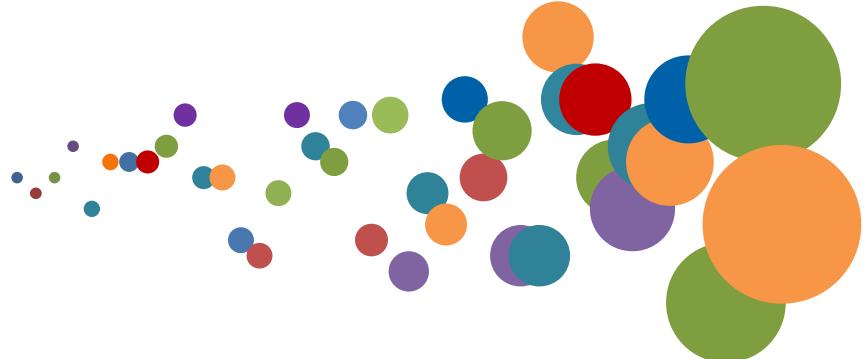
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# Report on Tuberculosis in California, 2013



Edmund G. Brown Jr., Governor  
State of California



Diana S. Dooley, Secretary  
California Health and Human Service Agency

Ron Chapman, MD, MPH  
Director and State Health Officer  
California Department of Public Health

# Report on Tuberculosis In California, 2013

Edmund G. Brown Jr.  
Governor  
State of California

California Department of Public Health  
Center for Infectious Diseases  
Division of Communicable Disease Control  
Tuberculosis Control Branch  
850 Marina Bay Parkway  
Richmond, CA 94804-6403  
(510) 620-3000

August 2014



Diana S. Dooley, Secretary  
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**Report on Tuberculosis in California, 2013**  
**California Department of Public Health**  
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**Tuberculosis Control Branch**

**August 2014**

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Website: <http://www.cdph.ca.gov/data/statistics/Pages/TuberculosisDiseaseData.aspx>

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Tuberculosis Control Branch.....Jennifer Flood, M.D., M.P.H., Chief

Surveillance and Epidemiology Section ..... Pennan Barry, M.D., M.P.H., Chief

Tuberculosis Registry.....Janice Westenhouse, M.P.H., Chief  
Carla Cueva, M.P.H., M.S.  
Alex Golden  
Linda Johnson  
Saul Kanowitz, M.P.H.  
Varsha Nimbal, M.P.H.

Division of Communicable Disease Control.....James Watt, M.D., M.P.H., Chief

For more information, contact the Tuberculosis Control Branch at the following address and phone number:

850 Marina Bay Parkway  
Building P, 2<sup>nd</sup> Floor  
Richmond, CA 94804-6403  
Phone: (510) 620-3000

Cover: The graphic represents the change in tuberculosis (TB) cases in local health jurisdictions (LHJ) between 2012 and 2013. Each circle represents one LHJ, and the size of the circle indicates the relative number of TB cases. Circles above the center represent LHJs with an increase in case numbers; circles below the line represent LHJs with a decrease in case numbers.



RON CHAPMAN, MD, MPH  
Director & State Health Officer

State of California—Health and Human Services Agency  
California Department of Public Health



EDMUND G. BROWN JR.  
Governor

August 15, 2014

Dear Colleagues:

I am pleased to present to you the 2013 Report on Tuberculosis in California. Through your dedication and partnership we have continued to drive down the number of TB cases and the rate of TB disease in our state. There were 2,169 TB cases (5.7 per 100,000 population), the lowest number ever recorded in California.

Other successes include the increased use of newer diagnostic tests, including nucleic acid amplification tests (NAAT), which increased to 53 percent in 2013 from 39 percent in 2010, and interferon gamma release assays (IGRA), which increased to 51 percent from 22 percent in the same time period. The adoption of these and other rapid technologies will lead to shortened diagnostic periods, and decrease the likelihood of transmission of disease. TB programs also moved toward greater adherence to state and national guidelines for universal HIV status determination of TB patients (80 percent tested in 2011; 88 percent tested in 2013).

Despite these successes, TB outbreaks continue to occur in groups at high risk for disease, and improvements have not been seen in key indicators such as pediatric TB, deaths with TB, and multidrug-resistant disease. I invite you to review this report to identify additional successes and challenges to controlling TB in our state, and to join with me as we renew our efforts to eliminate TB.

You have my deepest thanks for all your contributions to control and prevent TB in California.

Sincerely,

Jennifer Flood, M.D., M.P.H., Chief  
Tuberculosis Control Branch  
Division of Communicable Disease Control  
Center for Infectious Diseases  
California Department of Public Health

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## **Introduction**

Tuberculosis (TB) case reports are submitted to the California Department of Public Health (CDPH), TB Control Branch (TBCB), by 61 local health jurisdictions (58 counties, and the cities of Berkeley, Long Beach, and Pasadena). In 1993, the Centers for Disease Control and Prevention (CDC), in conjunction with state and local health departments, began using the Report of Verified Case of Tuberculosis (RVCT) to collect information on each case of TB. The RVCT includes demographic and clinical characteristics of TB cases, as well as information on drug resistance, risk factors for TB, and treatment outcomes. In 2009, CDC released an expanded RVCT that collects additional information to address the changing epidemiology of TB in terms of risk factors, new drug treatments, and enhanced laboratory capacity for diagnostic tests. California implemented this revised RVCT January 1, 2010.

CDPH Division of Communicable Disease Control implemented an internet-based surveillance system for reportable diseases including TB in January 2010. This system, California Reportable Disease Information Exchange (CalREDIE), allows all jurisdictions in California to submit TB case reports and access their local data on-line in a timely manner.

## **Acknowledgment**

TBCB would like to thank surveillance and reporting staff in all local reporting jurisdictions. Without their hard work we would not have data for this publication. We also acknowledge the support of our partners at CDC's Division of Tuberculosis Elimination.

## **Executive Summary**

In 2013, California reported 2,169 cases of tuberculosis (TB), a decline of less than one percent from 2,189 cases reported the previous year. The rate of TB fell to 5.7 per 100,000 population, a 1.7 percent decline from 5.8 per 100,000 in 2012. There were 9,582 cases reported in the United States in 2013, with a rate of 3.0 per 100,000. California continues to contribute the highest number of cases in the nation, accounting for nearly 23% of the nation's total in 2013. California reported the third highest TB rate among states, behind Alaska and Hawaii.

### **Geographic distribution**

TB was reported in 44 of 61 (72 percent) local health jurisdictions (LHJs) in 2013. Although the majority of cases were found in large urban areas, TB continues to be reported throughout the state. Only five LHJs have been free of TB disease throughout the past decade. Even though California's total number of cases dropped slightly in 2013, 17 LHJs reported an increase in case numbers compared to 2012.

### **Race and ethnicity**

In 2013, nearly half of TB cases were in Asians or Pacific Islanders, and more than one-third were in Hispanics. The number of cases and the rate of TB increased slightly from 2012 to 2013 among the Asian and Pacific Islander racial/ethnic group. Compared to non-Hispanic whites, the Asian and Pacific Islander, non-Hispanic black, and Hispanic racial/ethnic groups continue to be disproportionately affected by TB, with rates 16, 5, and 4 times greater, respectively.

### **Age**

Despite a decline in TB case number and rate among children less than 5 years of age overall during the past decade, TB jumped by approximately 20 percent in these young children from 2012 to 2013 (n=58; 2.3 per 100,000). Although a small percentage of California's total cases, TB in very young children is a marker of recent disease transmission, often from a family member or caretaker who was not diagnosed and treated for TB disease in a timely manner, and therefore represents a missed opportunity for preventing the spread of TB disease. Additionally, 12 percent of these cases (n=7) had TB meningitis, a form of TB that is frequently neurologically devastating.

More than 30 percent of California's TB cases were among persons aged 65 and older. TB cases in this group increased from 2012 to 2013 in all racial/ethnic groups, with the largest number being Asians and Pacific Islanders. The elderly population is more likely to have other medical conditions such as diabetes that make them more liable to progress to TB disease.

### **Place of birth**

In 2013, 78 percent of TB cases were in persons born outside the U.S. Of these, more than 80 percent were from Mexico or Central America, the Philippines, Vietnam, China or India. More than three-quarters of persons with TB who were born in other countries have been in the U.S. for 5 or more years; half have been in the U.S. for at least 16 years. In 2013, 48 percent of foreign-born cases reported initially arriving in the U.S. with a visa status requiring pre-immigration TB screening (immigrant, refugee, asylee, parolee), while 11 percent had a visa status not requiring screening (student, employment, tourist, family).

Twenty-four percent were reported with a visa status of “other” which includes persons arriving without an official immigration status (i.e., undocumented), persons with other visa types, and persons not required to have a visa (e.g., visitors from Canada). The nearly 18 percent of cases with a visa status of “unknown” includes persons in jurisdictions that prohibit inquiry into immigration status.

Following the 2007 implementation of enhanced overseas TB screening and treatment of TB for persons applying for permanent residency in the U.S., the proportion of TB cases diagnosed within one year of arrival decreased to 9 percent in 2013 from 18 percent in 2006. Genotyping, a genetic fingerprint analysis of the TB organism, indicates that most of longer-term U.S. residents with TB disease were likely infected in their country of birth, rather than acquiring disease by recent transmission within the U.S.

#### Medical risk factors

In 2013, 88 percent of persons with TB were tested for HIV infection. Of those, 77 (four percent) were HIV positive. In 2011, the first year HIV status was collected on the TB case report form in California, 79 percent of cases were tested for HIV. This move toward increased compliance with state and national recommendations for universal testing of TB patients for HIV (<http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5514a1.htm>) is an important step to ensure that co-infected cases receive appropriate treatment and management of both HIV and TB diseases.

Matching the TB registry to the California Office of AIDS HIV/AIDS registry is an additional method used to identify cases co-infected with both diseases. In 2012, 58 percent of all TB-HIV co-infected cases were Hispanic, while the racial/ethnic group with the greatest percent of co-infected cases was non-Hispanic black (11 percent).

In 2013, 35 percent of TB cases had one or more of the following conditions: diabetes mellitus, end-stage renal disease, post-organ transplant, tumor necrosis factor (TNF) alpha antagonist therapy, or an immunosuppressive condition other than HIV. These medical conditions increase the risk of progression from latent TB infection (LTBI) to active TB disease, and therefore provide opportunities for control of TB via screening and treatment of LTBI among patients with these conditions. Of the conditions noted, diabetes was the most frequently reported (n=540; 25 percent).

#### TB among the homeless

In 2013, six percent of TB cases were homeless at the time of diagnosis, an increase of 28 percent from a low of four percent in 2009. The increase can be attributed in part to known outbreaks among homeless persons in a large urban area. TB infection may be easily spread in congregate living settings such as homeless shelters where residents may be at increased risk of progressing to TB due to HIV infection, drug use or poor general health. Genotyping has allowed local and state TB programs to identify potential TB outbreaks in homeless shelters in order to prevent further spread.

#### Diagnostic tests for TB

The interferon gamma release assay (IGRA) is a blood test for TB infection that may be used in place of the tuberculin skin test (TST). IGAs are not reactive with the BCG (bacilli Calmette-Guerin) vaccine and therefore may be more specific than the TST for detecting TB infection in persons from countries with high rates of BCG immunization. In 2013, TB cases had high rates

of both IGRA and TST positivity (81 and 80 percent, respectively). These tests may be negative in TB cases with severe TB disease, HIV or other immunosuppressive conditions, persons taking medications causing immunosuppression, or in very young children.

The results of nucleic acid amplification (NAA) tests, used to identify *Mycobacterium tuberculosis* (*Mtb*) in respiratory specimens, can be available 24-48 hours after specimen collection, and thus can lead to earlier treatment relative to conventional diagnostic tests, and interruption of TB transmission. In 2013, 53 percent of TB cases had NAA tests done; of these 79 percent were positive. During 2010-2011, providers outside the public health department were less likely to order a NAA test for their TB patients than were providers in public health departments (35 vs 43 percent). The U.S. Food and Drug Administration (FDA) July 2013 market authorization of a new NAA test is expected to increase use of NAA testing for TB diagnosis in a variety of settings.

#### Severity of disease

Sputum smear positivity and cavities on chest imaging may each be indicative of a more advanced stage of disease due to a late diagnosis of TB, leading to the possibility of transmission of disease to others. Among all TB cases with pulmonary disease in 2013, 53 percent had a sputum smear positive for acid-fast bacilli (AFB). Smear positivity was more common among U.S.-born non-Hispanic blacks (60 percent), and foreign-born Hispanics (66 percent).

Cavitory findings were reported on the chest images (either x-ray or CT scan) in 32 percent of pulmonary cases. Among U.S.-born persons, cavitary findings were reported more frequently among non-Hispanic blacks (38 percent); among foreign-born persons cavitary findings were more common among Hispanics (41 percent).

#### Drug resistance

More than 16 percent of culture positive cases in 2013 were resistant to one or more of the first line drugs used to treat TB. In 2013, more than ten percent of culture positive TB cases (n=180) were resistant to isoniazid (INH), one of the most effective drugs against TB disease. INH-resistance has remained between 9 and 12 percent since drug susceptibility reporting began in 1993.

More than six percent of culture positive TB cases in 2013 were resistant to pyrazinamide (PZA). Often an indicator of TB disease caused by *Mycobacterium bovis*, PZA-resistance was more common among Hispanics (ten percent), and has been associated with ingestion of unpasteurized dairy products.

Multidrug-resistant (MDR) TB, defined as resistance to both INH and rifampin, was identified in 27 TB cases in 2013. The drugs available to treat MDR TB are more toxic to the patient and more costly than the standard anti-TB drug regimen. In addition, because the drugs available to treat MDR TB are less effective than the standard regimen, patients require up to two years of treatment. One case of extensively drug resistant (XDR) TB was reported in 2013. XDR TB is defined as MDR TB with additional resistance to a fluoroquinolone and an injectable agent, which are important classes of drugs for treating MDR TB. The California MDR TB Service of the TB Control Branch is available to assist local TB programs with the management of these often difficult to treat cases.

## Treatment outcomes

Of patients beginning treatment for TB disease in 2011, the most recent years for which information on outcomes is available, 86 percent completed their full course of treatment. Only seven patients stopped therapy due to a serious side effect of the anti-TB drugs, whereas 40 (<2 percent) patients refused treatment or became lost before their treatment was completed. The Centers for Disease Control and Prevention (CDC) recommends universal directly observed therapy (DOT) to help ensure that patients complete their full course of treatment. In 2011, 50 percent of patients received their full course of treatment via DOT, and an additional 38 percent received DOT for at least part of their treatment.

Nearly eight percent (n=171) of patients died during treatment for TB, with half of the deaths occurring before completing 7 weeks of treatment. Patients cared for by healthcare providers outside the public health department were four times as likely to die during treatment as were patients receiving at least some of their care from providers in public health departments (14.5 percent, 3.5 percent, respectively). In addition to deaths during treatment of TB, more than 2 percent (n=33 in 2011) were dead at the time their TB was diagnosed, or died before they were able to start TB treatment. Overall, nearly ten percent of persons diagnosed with TB in 2011 died. Although the number of deaths with TB has declined along with the total number of TB cases reported each year, the percentage of cases that die has remained between eight and ten percent since 1997.

Patients who move out of their original jurisdiction of residence prior to completing TB treatment remain an ongoing challenge to TB control. Although many (60 percent) patients who move to a different location within California or to a different state are known to have completed TB treatment, those that move out of the country are less likely to complete treatment, leading to the risk of transmission of TB to others, and development of a drug-resistant strain of TB. For their patients that move to Mexico or Central America, local TB programs in California work closely with CureTB ([http://www.sdcountry.ca.gov/hhsa/programs/phs/cure\\_tb](http://www.sdcountry.ca.gov/hhsa/programs/phs/cure_tb)), a referral and continuity of care program, to help ensure that their patients are connected with health care providers across the border and to increase the likelihood that they will complete treatment.

## Type of healthcare provider

In 2011, the most recent data available, 54 percent of TB patients had the majority of their care provided by a public health department, and an additional nine percent had care provided by both health department and private healthcare providers. The proportion of cases receiving the majority of their care solely from a private provider increased from 30 percent in 2002 to 37 percent in 2011. This number is likely to continue to grow with increased availability of health insurance through the Affordable Care Act and Covered California. This trend presents challenges to TB control because providers outside public health departments may lack expertise in diagnosing and treating TB. This also presents opportunities for public health department providers to educate their colleagues in the private sector, and to assist in ensuring best practices in the management of TB disease.

## Summary

In summary, although we continue to make advances in controlling TB in California, progress has slowed and there is still much work to do. In 2013, a Californian was diagnosed with TB every four hours, a child under 5 was diagnosed every week, and a person died with TB every other day. Continued progress may depend on an increased focus on TB prevention, particularly among persons at risk for developing TB disease such as foreign-born persons with a medical risk factor for progression from TB infection.

**Table 1. Tuberculosis Cases and Case Rates per 100,000 Population: California, 1985-2013**

Year	Cases	Rate	Percent Change From Previous Year	
			Cases	Rate
1985	3,492	13.2		
1986	3,442	12.7	-1.4	-3.8
1987	3,719	13.4	8.0	5.5
1988	3,468	12.2	-6.7	-9.0
1989	4,212	14.5	21.5	18.9
1990	4,889	16.4	16.1	13.1
1991	5,273	17.3	7.9	5.5
1992	5,382	17.4	2.1	0.6
1993	5,150	16.4	-4.3	-5.7
1994	4,834	15.3	-6.1	-6.7
1995	4,656	14.7	-3.7	-3.9
1996	4,288	13.4	-7.9	-8.8
1997	4,045	12.5	-5.7	-6.7
1998	3,850	11.7	-4.8	-6.4
1999	3,603	10.8	-6.4	-7.7
2000	3,288	9.7	-8.7	-10.2
2001	3,329	9.6	1.2	-1.0
2002	3,172	9.1	-4.7	-5.2
2003	3,218	9.1	1.5	0.0
2004	2,991	8.4	-7.1	-7.7
2005	2,900	8.1	-3.0	-3.6
2006	2,776	7.7	-4.3	-4.9
2007	2,725	7.5	-1.8	-2.6
2008	2,699	7.3	-1.0	-2.7
2009	2,467	6.7	-8.6	-8.2
2010	2,325	6.2	-5.8	-7.5
2011	2,323	6.2	-0.1	0.0
2012	2,189	5.8	-5.8	-6.5
2013	2,169	5.7	-0.9	-1.7

Note: Denominators for computing rates are from the California Department of Finance, *E-2 California County Population Estimates and Components of Change*.

**Table 2. Tuberculosis Cases by Race/Ethnicity, Age Group, Sex, and Birthplace: California, 2004-2013**

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Percent Change	
											2004-2013	2012-2013
<b>Total Cases</b>	<b>2,991</b>	<b>2,900</b>	<b>2,776</b>	<b>2,725</b>	<b>2,699</b>	<b>2,467</b>	<b>2,325</b>	<b>2,323</b>	<b>2,189</b>	<b>2,169</b>	<b>-27.5</b>	<b>-0.9</b>
<b>Race/Ethnicity</b>												
White, Not Hispanic	293	268	267	237	260	217	185	197	183	182	-37.9	-0.5
Black, Not Hispanic	226	225	208	218	210	190	153	137	137	137	-39.4	0.0
Hispanic	1,176	1,127	1,066	995	1,059	913	871	849	817	783	-33.4	-4.2
Asian/Pacific Islander	1,288	1,271	1,222	1,260	1,160	1,135	1,115	1,135	1,043	1,063	-17.5	1.9
American Indian/Alaska Native	5	5	9	6	9	5	1	5	9	4	.	.
Unknown	3	4	4	9	1	7	-	-	-	-	.	.
<b>Age Group</b>												
0-4	118	85	91	89	90	70	55	82	48	58	-50.8	20.8
5-14	102	66	45	46	66	55	46	46	40	32	-68.6	-20.0
15-24	309	281	321	293	279	237	216	180	215	183	-40.8	-14.9
25-44	925	916	855	787	813	736	680	625	597	551	-40.4	-7.7
45-64	862	846	790	861	829	740	737	773	701	666	-22.7	-5.0
65+	675	706	674	649	622	629	591	617	588	678	0.4	15.3
Unknown	-	-	-	-	-	-	-	-	-	1	.	.
<b>Sex</b>												
Male	1,785	1,750	1,666	1,651	1,657	1,499	1,376	1,381	1,296	1,321	-26.0	1.9
Female	1,206	1,150	1,110	1,074	1,042	967	949	942	893	848	-29.7	-5.0
Unknown	-	-	-	-	-	1	-	-	-	-	.	.
<b>Birthplace</b>												
U.S.-born	712	652	631	594	663	580	493	514	465	469	-34.1	0.9
Foreign-born	2,267	2,232	2,132	2,111	2,031	1,873	1,828	1,805	1,723	1,695	-25.2	-1.6
Unknown	12	16	13	20	5	14	4	4	1	5	-58.3	.

- Indicates zero cases

. Percent change not calculated where number of cases is less than 5

**Table 3. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity, Age Group, Sex, and Birthplace: California, 2004-2013**

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Percent Change	
											2004-2013	2012-2013
<b>Total Cases</b>	<b>8.4</b>	<b>8.1</b>	<b>7.7</b>	<b>7.5</b>	<b>7.3</b>	<b>6.7</b>	<b>6.2</b>	<b>6.2</b>	<b>5.8</b>	<b>5.7</b>	<b>-32.1</b>	<b>-1.7</b>
Race/Ethnicity												
White, Not Hispanic	1.9	1.7	1.7	1.5	1.7	1.4	1.2	1.3	1.2	1.2	-36.8	0.0
Black, Not Hispanic	9.5	9.5	8.8	9.2	8.8	8.0	6.5	5.8	5.7	5.7	-40.0	0.0
Hispanic	9.5	8.9	8.2	7.5	7.9	6.6	6.2	5.9	5.6	5.3	-44.2	-5.4
Asian/Pacific Islander	27.2	26.4	25.0	25.2	22.8	21.8	20.7	20.8	18.9	19.1	-29.8	1.1
American Indian/Alaska Native	1.2	1.2	2.1	1.4	2.0	1.1	.	1.1	1.9	.	.	.
Age Group												
0-4	4.6	3.3	3.5	3.4	3.5	2.7	2.2	3.3	1.9	2.3	-50.0	21.1
5-14	1.9	1.2	0.8	0.9	1.3	1.1	0.9	0.9	0.8	0.6	-68.4	-25.0
15-24	5.9	5.3	5.9	5.3	5.0	4.3	3.9	3.2	3.8	3.2	-45.8	-15.8
25-44	8.6	8.6	8.1	7.4	7.7	7.0	6.5	5.9	5.6	5.2	-39.5	-7.1
45-64	10.8	10.3	9.3	9.9	9.3	8.0	7.9	8.2	7.3	6.9	-36.1	-5.5
65+	17.9	18.5	17.4	16.5	15.5	15.0	13.8	14.1	12.9	14.4	-19.6	11.6
Sex												
Male	10.0	9.8	9.2	9.1	9.0	8.1	7.4	7.4	6.9	6.9	-31.0	0.0
Female	6.7	6.4	6.1	5.8	5.6	5.2	5.1	5.0	4.7	4.4	-34.3	-6.4
Birthplace												
Foreign-born	23.7	22.8	21.7	21.1	20.5	18.8	18.0	17.8	16.8	16.3	-31.2	-3.0
U.S.-born	2.7	2.5	2.4	2.2	2.5	2.1	1.8	1.9	1.7	1.7	-37.0	0.0

. Case rate and percent change not calculated where number of cases is less than 5

Note: Denominators for computing rates are calculated using California Department of Finance, *Population Projections by Race/Ethnicity*, and E-2 California County Population Estimates and Components of Change; and the U.S. Census Bureau, *American Community Survey*.

**Table 4. Tuberculosis Cases by Race/Ethnicity and Age Group: California, 2004-2013**

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Percent Change	
											2004-2013	2012-2013
<b>Total Cases</b>	<b>2,991</b>	<b>2,900</b>	<b>2,776</b>	<b>2,725</b>	<b>2,699</b>	<b>2,467</b>	<b>2,325</b>	<b>2,323</b>	<b>2,189</b>	<b>2,169</b>	<b>-27.5</b>	<b>-0.9</b>
White, Not Hispanic	293	268	267	237	260	217	185	197	183	182	-37.9	-0.5
0-4	6	6	1	5	5	4	4	1	2	4	.	.
5-14	6	3	1	4	2	3	3	-	3	-	.	.
15-24	18	10	21	4	16	15	11	10	9	3	.	.
25-44	59	65	53	47	48	50	42	37	37	32	-45.8	-13.5
45-64	92	100	85	84	115	73	63	73	72	76	-17.4	5.6
65+	112	84	106	93	74	72	62	76	60	67	-40.2	11.7
Unknown	-	-	-	-	-	-	-	-	-	-	.	.
Black, Not Hispanic	226	225	208	218	210	190	153	137	137	137	-39.4	0.0
0-4	6	4	5	7	5	7	4	4	1	-	.	.
5-14	9	5	-	2	7	7	3	4	5	1	.	.
15-24	19	19	22	28	17	18	12	11	12	8	-57.9	-33.3
25-44	77	77	74	66	82	57	51	44	43	43	-44.2	0.0
45-64	85	86	74	85	76	66	60	56	55	57	-32.9	3.6
65+	30	34	33	30	23	35	23	18	21	28	-6.7	33.3
Unknown	-	-	-	-	-	-	-	-	-	-	.	.
Hispanic	1,176	1,127	1,066	995	1,059	913	871	849	817	783	-33.4	-4.2
0-4	87	61	66	62	57	46	36	58	32	36	-58.6	12.5
5-14	64	42	35	26	43	36	25	25	26	23	-64.1	-11.5
15-24	171	166	167	157	162	126	100	87	104	96	-43.9	-7.7
25-44	400	411	376	338	370	310	310	259	258	253	-36.8	-1.9
45-64	271	265	258	253	269	239	234	259	232	200	-26.2	-13.8
65+	183	182	164	159	158	156	166	161	165	175	-4.4	6.1
Unknown	-	-	-	-	-	-	-	-	-	-	.	.
Asian/Pacific Islander	1,288	1,271	1,222	1,260	1,160	1,135	1,115	1,135	1,043	1,063	-17.5	1.9
0-4	18	14	19	15	23	13	11	19	13	18	0.0	38.5
5-14	23	16	9	13	14	9	15	17	6	8	-65.2	33.3
15-24	100	86	110	103	84	78	93	72	90	75	-25.0	-16.7
25-44	387	360	345	329	309	315	277	284	256	223	-42.4	-12.9
45-64	413	391	371	435	364	358	380	382	337	332	-19.6	-1.5
65+	347	404	368	365	366	362	339	361	341	406	17.0	19.1
Unknown	-	-	-	-	-	-	-	-	-	1	.	.
American Indian/Alaska Native	5	5	9	6	9	5	1	5	9	4	.	.
0-4	1	-	-	-	-	-	-	-	-	-	.	.
5-14	-	-	-	-	-	-	-	-	-	-	.	.
15-24	1	-	1	1	-	-	-	-	-	1	.	.
25-44	1	2	5	2	4	-	-	1	3	-	.	.
45-64	1	2	1	1	4	3	-	3	5	1	.	.
65+	1	1	2	2	1	2	1	1	1	2	.	.
Race Unknown	3	4	4	9	1	7	-	-	-	-	.	.
0-4	-	-	-	-	-	-	-	-	-	-	.	.
5-14	-	-	-	1	-	-	-	-	-	-	.	.
15-24	-	-	-	-	-	-	-	-	-	-	.	.
25-44	1	1	2	5	-	4	-	-	-	-	.	.
45-64	-	2	1	3	1	1	-	-	-	-	.	.
65+	2	1	1	-	-	2	-	-	-	-	.	.

- Indicates zero cases

. Percent change not calculated where number of cases is less than 5

**Table 5. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity and Age Group: California, 2004-2013**

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Percent Change	
											2004-2013	2012-2013
<b>Total Cases</b>	<b>8.4</b>	<b>8.1</b>	<b>7.7</b>	<b>7.5</b>	<b>7.3</b>	<b>6.7</b>	<b>6.2</b>	<b>6.2</b>	<b>5.8</b>	<b>5.7</b>	<b>-32.1</b>	<b>-1.7</b>
White, Not Hispanic	1.9	1.7	1.7	1.5	1.7	1.4	1.2	1.3	1.2	1.2	-36.8	0.0
0-4	0.8	0.8	.	0.7	0.7	.	.	.	.	.	.	.
5-14	0.3	.	.	.	.	.	.	.	.	.	.	.
15-24	1.0	0.5	1.1	.	0.8	0.8	0.6	0.6	0.5	.	.	.
25-44	1.3	1.5	1.3	1.2	1.2	1.3	1.1	1.0	1.0	0.9	-30.8	-10.0
45-64	2.0	2.2	1.8	1.8	2.4	1.5	1.3	1.5	1.5	1.6	-20.0	6.7
65+	4.4	3.3	4.2	3.6	2.9	2.7	2.3	2.8	2.2	2.4	-45.5	9.1
Black, Not Hispanic	9.5	9.5	8.8	9.2	8.8	8.0	6.5	5.8	5.7	5.7	-40.0	0.0
0-4	3.6	.	3.2	4.4	3.2	4.5	.	.	.	.	.	.
5-14	2.2	1.3	.	.	1.9	2.1	.	.	1.6	.	.	.
15-24	5.1	5.0	5.8	7.3	4.4	4.6	3.1	2.8	3.1	2.1	-58.8	-32.3
25-44	10.9	11.1	10.8	9.7	12.2	8.7	7.9	6.9	6.7	6.6	-39.4	-1.5
45-64	16.3	16.0	13.4	14.9	13.0	10.9	9.7	8.9	8.7	8.9	-45.4	2.3
65+	14.8	16.5	15.8	14.1	10.6	15.5	9.9	7.6	8.5	10.9	-26.4	28.2
Hispanic	9.5	8.9	8.2	7.5	7.9	6.6	6.2	5.9	5.6	5.3	-44.2	-5.4
0-4	6.7	4.6	5.0	4.6	4.2	3.4	2.7	4.4	2.4	2.8	-58.2	16.7
5-14	2.5	1.6	1.3	1.0	1.6	1.4	1.0	1.0	1.0	0.9	-64.0	-10.0
15-24	7.7	7.3	7.2	6.6	6.6	5.0	3.9	3.3	3.9	3.6	-53.2	-7.7
25-44	10.0	10.2	9.2	8.2	8.8	7.2	7.2	5.9	5.8	5.6	-44.0	-3.4
45-64	15.2	14.1	13.1	12.2	12.4	10.1	9.5	10.1	8.7	7.2	-52.6	-17.2
65+	32.2	30.8	26.7	24.9	23.7	21.5	21.9	20.2	19.6	19.7	-38.8	0.5
Asian/Pacific Islander	27.2	26.4	25.0	25.2	22.8	21.8	20.7	20.8	18.9	19.1	-29.8	1.1
0-4	5.7	4.4	5.9	4.7	7.1	4.1	3.4	5.9	3.9	5.3	-7.0	35.9
5-14	3.7	2.6	1.4	2.1	2.2	1.4	2.3	2.6	0.9	1.2	-67.6	33.3
15-24	13.9	11.9	15.1	14.0	11.3	10.7	12.2	9.5	12.0	10.0	-28.1	-16.7
25-44	25.4	23.5	22.3	20.9	19.3	19.6	16.7	17.1	15.4	13.4	-47.2	-13.0
45-64	37.6	34.3	31.4	35.6	28.7	26.7	27.2	26.8	23.2	22.5	-40.2	-3.0
65+	77.0	86.5	75.8	72.1	69.3	63.3	56.7	57.9	52.0	58.7	-23.8	12.9
American Indian/Alaska Native	1.2	1.2	2.1	1.4	2.0	1.1	.	1.1	1.9	.	.	.
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-14	.	.	.	.	.	.	.	.	.	.	.	.
15-24	.	.	.	.	.	.	.	.	.	.	.	.
25-44	.	.	4.4	.	.	.	.	.	.	.	.	.
45-64	.	.	.	.	.	.	.	.	5.1	.	.	.
65+	.	.	.	.	.	.	.	.	.	.	.	.

. Case rate and percent change not calculated where number of cases is less than 5

California Department of Public Health, Tuberculosis Control Branch

**Table 6. Tuberculosis Cases by Race/Ethnicity, Sex, and Age Group: California, 2013**

	All Ages	Age Group						
		0-4	5-14	15-24	25-44	45-64	65+	Unknown
<b>Total Cases</b>	<b>2,169</b>	<b>58</b>	<b>32</b>	<b>183</b>	<b>551</b>	<b>666</b>	<b>678</b>	<b>1</b>
White, Not Hispanic	182	4	-	3	32	76	67	-
Male	129	4	-	3	21	61	40	-
Female	53	-	-	-	11	15	27	-
Black, Not Hispanic	137	-	1	8	43	57	28	-
Male	80	-	1	4	27	33	15	-
Female	57	-	-	4	16	24	13	-
Hispanic	783	36	23	96	253	200	175	-
Male	495	21	10	63	168	136	97	-
Female	288	15	13	33	85	64	78	-
Asian/Pacific Islander	1,063	18	8	75	223	332	406	1
Male	613	12	5	36	100	194	266	-
Female	450	6	3	39	123	138	140	1
American Indian/Alaska Native	4	-	-	1	-	1	2	-
Male	4	-	-	1	-	1	2	-
Female	-	-	-	-	-	-	-	-

- Indicates zero cases

California Department of Public Health, Tuberculosis Control Branch

**Table 7. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity, Sex, and Age Group:  
California, 2013**

	All Ages	Age Group				
		0-4	5-14	15-24	25-44	45-64
<b>Total Cases</b>	<b>5.7</b>	<b>2.3</b>	<b>0.6</b>	<b>3.2</b>	<b>5.2</b>	<b>6.9</b>
White, Not Hispanic	1.2	.	.	.	0.9	1.6
Male	1.7	.	.	.	1.1	2.6
Female	0.7	.	.	.	0.6	0.6
Black, Not Hispanic	5.7	.	.	2.1	6.6	8.9
Male	6.7	.	.	.	8.3	10.5
Female	4.7	.	.	.	5.0	7.4
Hispanic	5.3	2.8	0.9	3.6	5.6	7.2
Male	6.6	3.1	0.7	4.6	7.3	9.9
Female	3.9	2.4	1.0	2.5	3.9	4.5
Asian/Pacific Islander	19.1	5.3	1.2	10.0	13.4	22.5
Male	23.1	6.7	1.5	9.4	12.7	28.7
Female	15.4	3.7	.	10.7	14.1	17.3
American Indian/Alaska Native	.	.	.	.	.	.
Male	.	.	.	.	.	.
Female	.	.	.	.	.	.

. Case rates not calculated where number of cases is less than 5

Note: Denominators for computing rates are calculated using California Department of Finance, *Population Projections by Race/Ethnicity*, and *E-2 California County Population Estimates and Components of Change*.

California Department of Public Health, Tuberculosis Control Branch

**Table 8. Tuberculosis Cases in U.S.-born Persons by Race/Ethnicity, Sex, and Age Group: California, 2013**

	All Ages	Age Group					
		0-4	5-14	15-24	25-44	45-64	65+
<b>Total Cases</b>	<b>469</b>	<b>52</b>	<b>25</b>	<b>64</b>	<b>114</b>	<b>134</b>	<b>79</b>
White, Not Hispanic	109	3	-	1	19	54	32
Male	83	3	-	1	10	47	22
Female	26	-	-	-	9	7	10
Black, Not Hispanic	94	-	1	6	18	46	23
Male	61	-	1	4	13	29	14
Female	33	-	-	2	5	17	9
Hispanic	203	32	18	45	62	30	16
Male	130	17	8	29	46	22	8
Female	73	15	10	16	16	8	8
Asian/Pacific Islander	59	17	6	11	15	3	6
Male	32	11	3	4	7	2	5
Female	27	6	3	7	8	1	1
American Indian/Alaska Native	4	-	-	1	-	1	2
Male	4	-	-	1	-	1	2
Female	-	-	-	-	-	-	-

- Indicates zero cases.

California Department of Public Health, Tuberculosis Control Branch

**Table 9. Tuberculosis Cases in Foreign-born Persons by Race/Ethnicity, Sex, and Age Group: California, 2013**

	All Ages	Age Group					
		0-4	5-14	15-24	25-44	45-64	65+
<b>Total Cases</b>	<b>1,695</b>	<b>5</b>	<b>7</b>	<b>119</b>	<b>437</b>	<b>531</b>	<b>596</b>
White, Not Hispanic	71	-	-	2	13	21	35
Male	44	-	-	2	11	13	18
Female	27	-	-	-	2	8	17
Black, Not Hispanic	42	-	-	2	25	11	4
Male	18	-	-	-	14	4	-
Female	24	-	-	2	11	7	4
Hispanic	580	4	5	51	191	170	159
Male	365	4	2	34	122	114	89
Female	215	-	3	17	69	56	70
Asian/Pacific Islander	1,002	1	2	64	208	329	398
Male	581	1	2	32	93	192	261
Female	421	-	-	32	115	137	137

- Indicates zero cases

California Department of Public Health, Tuberculosis Control Branch

**Table 10. Tuberculosis Cases in Foreign-born Persons by Country of Origin and Time in the United States: California, 2013**

Country of Origin *	Total Foreign-born Cases	Time in United States										Unknown Time in U.S.	
		≤ 1 year		1-2 years		3-5 years		6-10 years		11-20 years		>20 years	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<b>Total</b>	<b>1,695</b>	<b>150</b>	<b>8.8</b>	<b>44</b>	<b>2.6</b>	<b>145</b>	<b>8.6</b>	<b>193</b>	<b>11.4</b>	<b>381</b>	<b>22.5</b>	<b>713</b>	<b>42.1</b>
Mexico	454	18	4.0	4	0.9	22	4.8	40	8.8	103	22.7	249	54.8
Philippines	380	37	9.7	15	3.9	35	9.2	49	12.9	87	22.9	142	37.4
Vietnam	199	22	11.1	7	3.5	20	10.1	21	10.6	43	21.6	76	38.2
China**	147	13	8.8	2	1.4	11	7.5	19	12.9	41	27.9	55	37.4
India	93	20	21.5	4	4.3	17	18.3	6	6.5	21	22.6	20	21.5
Guatemala	54	4	7.4	2	3.7	11	20.4	15	27.8	6	11.1	16	29.6
Laos	34	1	2.9	1	2.9	1	2.9	5	14.7	5	14.7	21	61.8
El Salvador	31	3	9.7	-	-	3	9.7	5	16.1	7	22.6	13	41.9
Kampuchea (Cambodia)	31	1	3.2	1	3.2	-	-	2	6.5	6	19.4	19	61.3
Korea, North	29	2	6.9	-	-	-	-	1	3.4	7	24.1	18	62.1
Korea, South	26	-	-	-	-	1	3.8	3	11.5	7	26.9	13	50.0
Iran	15	1	6.7	1	6.7	-	-	1	6.7	5	33.3	7	46.7
Honduras	14	3	21.4	-	-	-	-	3	21.4	6	42.9	1	7.1
Pakistan	11	2	18.2	-	-	2	18.2	-	-	2	18.2	5	45.5
Taiwan	11	-	-	1	9.1	-	-	1	9.1	1	9.1	8	72.7
Ethiopia	10	2	20.0	-	-	4	40.0	-	-	1	10.0	3	30.0
Nigeria	9	2	22.2	1	11.1	1	11.1	-	-	4	44.4	1	11.1
Afghanistan	8	1	12.5	-	-	-	-	1	12.5	2	25.0	2	25.0
Nepal	8	4	50.0	-	-	2	25.0	-	-	2	25.0	-	-
Peru	8	-	-	-	-	-	-	3	37.5	4	50.0	1	12.5
Burma	7	3	42.9	-	-	-	-	3	42.9	-	-	1	14.3
Japan	6	1	16.7	-	-	-	-	1	16.7	2	33.3	2	33.3
Russia	6	-	-	-	-	-	-	1	16.7	3	50.0	2	33.3
Indonesia	5	-	-	-	-	1	20.0	-	-	1	20.0	2	40.0
Thailand	5	-	-	-	-	1	20.0	1	20.0	1	20.0	1	20.0
Other Countries	94	10	10.6	5	5.3	13	13.8	12	12.8	14	14.9	35	37.2
												5	5.3

- Indicates zero cases or zero percent

\* Countries listed in order of number of cases

\*\* People's Republic of China including Hong Kong

**Table 11. AIDS-associated Tuberculosis\* by Demographic Characteristics and Risk Factors for Tuberculosis: California, 2007-2012**

	2007			2008			2009			2010			2011			2012		
	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %	Total Cases	AIDS Diagnosis No.	AIDS Diagnosis %
<b>Total</b>	<b>2,725</b>	<b>143</b>	<b>5.2</b>	<b>2,699</b>	<b>136</b>	<b>5.0</b>	<b>2,467</b>	<b>110</b>	<b>4.5</b>	<b>2,325</b>	<b>101</b>	<b>4.3</b>	<b>2,323</b>	<b>97</b>	<b>4.2</b>	<b>2,189</b>	<b>83</b>	<b>3.8</b>
Race/Ethnicity																		
White, Not Hispanic	237	20	8.4	260	17	6.5	217	16	7.4	185	9	4.9	197	9	4.6	183	7	3.8
Black, Not Hispanic	218	32	14.7	210	28	13.3	190	15	7.9	153	20	13.1	137	21	15.3	137	15	10.9
Hispanic	995	78	7.8	1,059	79	7.5	913	62	6.8	871	61	7.0	849	58	6.8	817	48	5.9
Asian/Pacific Islander	1,260	11	0.9	1,160	11	0.9	1,135	16	1.4	1,115	11	1.0	1,135	9	0.8	1,043	13	1.2
American Indian/Alaska Native	6	-	-	9	1	11.1	5	-	-	1	-	-	5	-	-	9	-	-
Unknown	9	2	22.2	1	-	-	7	1	14.3	-	-	-	-	-	-	-	-	-
Age Group																		
0-4	89	-	-	90	-	-	70	-	-	55	-	-	82	-	-	48	-	-
5-14	46	1	2.2	66	-	-	55	-	-	46	-	-	46	1	2.2	40	-	-
15-24	293	7	2.4	279	6	2.2	237	2	0.8	216	1	0.5	180	2	1.1	215	2	0.9
25-44	787	82	10.4	813	87	10.7	736	69	9.4	680	62	9.1	625	48	7.7	597	44	7.4
45-64	861	48	5.6	829	42	5.1	740	35	4.7	737	35	4.7	773	44	5.7	701	34	4.9
65+	649	5	0.8	622	1	0.2	629	4	0.6	591	3	0.5	617	2	0.3	588	3	0.5
Sex																		
Male	1,651	124	7.5	1,657	114	6.9	1,499	93	6.2	1,376	82	6.0	1,381	81	5.9	1,296	71	5.5
Female	1,074	19	1.8	1,042	22	2.1	967	17	1.8	949	19	2.0	942	16	1.7	893	12	1.3
Unknown	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Place of Birth																		
U.S.-born	594	50	8.4	663	55	8.3	580	38	6.6	493	37	7.5	514	29	5.6	465	29	6.2
Foreign-born	2,111	92	4.4	2,031	81	4.0	1,873	71	3.8	1,828	63	3.4	1,805	68	3.8	1,723	54	3.1
Unknown	20	1	5.0	5	-	-	14	1	7.1	4	1	25.0	4	-	-	1	-	-
Homeless																		
No	2,548	113	4.4	2,523	116	4.6	2,347	91	3.9	2,209	90	4.1	2,176	79	3.6	2,050	60	2.9
Yes	157	29	18.5	164	20	12.2	101	18	17.8	102	10	9.8	124	17	13.7	129	22	17.1
Unknown	20	1	5.0	12	-	-	19	1	5.3	14	1	7.1	23	1	4.3	10	1	10.0
Alcohol Use																		
No	2,400	111	4.6	2,390	99	4.1	2,218	91	4.1	2,106	81	3.8	2,080	77	3.7	1,960	62	3.2
Yes	245	26	10.6	257	34	13.2	195	14	7.2	173	15	8.7	209	17	8.1	199	18	9.0
Unknown	80	6	7.5	52	3	5.8	54	5	9.3	46	5	10.9	34	3	8.8	30	3	10.0
Injecting Drug Use																		
No	2,606	124	4.8	2,605	117	4.5	2,379	98	4.1	2,264	98	4.3	2,262	91	4.0	2,120	76	3.6
Yes	45	11	24.4	37	13	35.1	26	5	19.2	26	1	3.8	21	3	14.3	42	4	9.5
Unknown	74	8	10.8	57	6	10.5	62	7	11.3	35	2	5.7	40	3	7.5	27	3	11.1
Non-injecting Drug Use																		
No	2,496	108	4.3	2,458	96	3.9	2,267	84	3.7	2,147	78	3.6	2,167	77	3.6	2,040	63	3.1
Yes	159	28	17.6	177	35	19.8	139	19	13.7	138	21	15.2	118	18	15.3	118	17	14.4
Unknown	70	7	10.0	64	5	7.8	61	7	11.5	40	2	5.0	38	2	5.3	31	3	9.7
Diagnosed in Correctional Facility																		
No	2,650	137	5.2	2,615	131	5.0	2,394	108	4.5	2,243	92	4.1	2,229	89	4.0	2,124	80	3.8
Yes	74	6	8.1	83	5	6.0	69	2	2.9	79	9	11.4	75	8	10.7	59	2	3.4
Unknown	1	-	-	1	-	-	4	-	-	3	-	-	19	-	-	6	1	16.7

- Indicates zero cases or zero percent

\* Match found in HIV/AIDS Case Registry, California Office of AIDS

California Department of Public Health, Tuberculosis Control Branch

**Table 12. Tuberculosis Cases, Rate per 100,000 Population, and Rank\* According to Rate: Reporting Jurisdictions in California, 2012-2013**

Reporting Jurisdiction	2012			2013		
	Rank	Cases	Rate	Rank	Cases	Rate
Imperial	1	30	16.8	1	38	21.2
San Francisco	2	116	14.1	2	107	12.9
Santa Clara	3	176	9.6	3	181	9.8
Long Beach	7	34	7.3	4	38	8.1
Alameda	3	136	9.6	5	114	7.9
San Mateo	7	54	7.3	6	58	7.8
Los Angeles	10	625	6.7	7	666	7.1
Yuba	34	2	.	8	5	6.8
San Diego	6	234	7.4	9	206	6.5
San Joaquin	12	44	6.3	10	43	6.1
Orange	13	192	6.2	11	187	6.0
Santa Barbara	15	24	5.6	11	26	6.0
Sacramento	19	63	4.4	13	84	5.8
<b>California</b>						<b>5.7</b>
Contra Costa	18	55	5.1	14	57	5.3
Marin	14	15	5.9	15	13	5.1
Merced	7	19	7.3	16	12	4.6
Berkeley	16	6	5.2	17	5	4.3
Fresno	25	34	3.6	18	39	4.1
Monterey	20	18	4.3	19	17	4.0
Kings	26	5	3.3	19	6	4.0
Tulare	29	12	2.7	21	16	3.5
Pasadena	5	11	7.9	21	5	3.5
Madera	11	10	6.6	23	5	3.3
Kern	23	34	4.0	24	28	3.2
Ventura	21	34	4.1	24	27	3.2
Solano	21	17	4.1	26	13	3.1
<b>United States</b>						<b>3.0</b>
Yolo	34	3	.	27	6	2.9
San Bernardino	28	58	2.8	28	57	2.7
Riverside	31	57	2.5	29	54	2.4
Stanislaus	33	7	1.3	30	10	1.9
Santa Cruz	30	7	2.6	31	5	1.8
Sonoma	27	14	2.9	32	8	1.6
Placer	32	6	1.7	32	6	1.6
<b>Healthy People 2020 Target</b>						<b>1.0</b>
Butte	34	4	.	34	4	.
San Luis Obispo	34	3	.	34	4	.
Shasta	34	1	.	34	4	.
Sutter	16	5	5.2	34	4	.
Napa	34	3	.	34	3	.
Humboldt	24	5	3.7	34	2	.
Lake	34	2	.	34	2	.
El Dorado	34	2	.	34	1	.
Glenn	34	3	.	34	1	.
Mendocino	34	2	.	34	1	.
San Benito	49	-	.	34	1	.
Alpine	49	-	.	45	-	.
Amador	34	1	.	45	-	.
Calaveras	34	1	.	45	-	.
Colusa	34	2	.	45	-	.
Del Norte	49	-	.	45	-	.
Inyo	49	-	.	45	-	.
Lassen	34	2	.	45	-	.
Mariposa	49	-	.	45	-	.
Modoc	49	-	.	45	-	.
Mono	49	-	.	45	-	.
Nevada	34	1	.	45	-	.
Plumas	49	-	.	45	-	.
Sierra	49	-	.	45	-	.
Siskiyou	49	-	.	45	-	.
Tehama	49	-	.	45	-	.
Trinity	49	-	.	45	-	.
Tuolumne	49	-	.	45	-	.

Note: Denominators for computing rates are calculated using California Department of Finance, *E-2 California County Population Estimates and Components of Change*, and *E-1 Population Estimates for Cities, Counties and the State*.

- Indicates zero cases

. Rates not calculated where number of cases is less than 5

\* All jurisdictions with one to four cases are given the same rank, and all jurisdictions with zero cases are given the same rank.

**Table 13. Tuberculosis Cases by Year: Reporting Jurisdictions in California, 2004-2013**

Reporting Jurisdiction	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Percent Change	
											2004-2013	2012-2013
<b>California</b>	<b>2,991</b>	<b>2,900</b>	<b>2,776</b>	<b>2,725</b>	<b>2,699</b>	<b>2,467</b>	<b>2,325</b>	<b>2,323</b>	<b>2,189</b>	<b>2,169</b>	<b>-27.5</b>	<b>-0.9</b>
Alameda	143	154	141	149	134	156	178	132	136	114	-20.3	-16.2
Alpine	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	1	-	1	-	-	-
Berkeley	4	10	5	6	4	4	9	1	6	5	-	-16.7
Butte	4	3	3	3	3	2	2	-	4	4	-	-
Calaveras	-	-	-	1	-	2	-	1	1	-	-	-
Colusa	-	-	2	-	1	-	3	-	2	-	-	-
Contra Costa	64	58	50	51	79	47	33	60	55	57	-10.9	3.6
Del Norte	-	-	1	-	-	1	-	-	-	-	-	-
El Dorado	3	4	4	3	4	1	1	3	2	1	-	-
Fresno	102	69	62	41	75	66	55	46	34	39	-61.8	14.7
Glenn	-	-	1	2	1	-	1	-	3	1	-	-
Humboldt	4	4	1	-	-	2	1	1	5	2	-	-
Imperial	31	32	33	29	21	36	24	27	30	38	22.6	26.7
Inyo	-	-	-	1	-	-	1	-	-	-	-	-
Kern	36	42	41	38	50	41	35	40	34	28	-22.2	-17.6
Kings	3	9	2	6	5	4	4	6	5	6	-	20.0
Lake	3	-	1	1	2	-	2	1	2	2	-	-
Lassen	-	2	-	-	-	1	-	-	2	-	-	-
Long Beach	54	53	39	39	47	44	42	29	34	38	-29.6	11.8
Los Angeles	928	904	879	815	790	702	674	680	625	666	-28.2	6.6
Madera	5	9	3	1	20	8	3	12	10	5	0.0	-50.0
Marin	13	10	6	16	6	14	11	12	15	13	0.0	-13.3
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	1	2	4	3	4	3	-	2	2	1	-	-
Merced	8	8	9	5	5	11	6	6	19	12	50.0	-36.8
Modoc	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	29	37	29	22	24	16	21	25	18	17	-41.4	-5.6
Napa	8	3	7	7	3	8	6	6	3	3	-	-
Nevada	1	2	2	-	3	-	-	1	1	-	-	-
Orange	230	242	226	217	210	197	224	209	192	187	-18.7	-2.6
Pasadena	12	15	7	5	6	3	5	5	11	5	-58.3	-54.5
Placer	2	5	6	14	2	7	3	6	6	6	-	0.0
Plumas	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	75	60	74	80	79	69	74	68	57	54	-28.0	-5.3
Sacramento	157	142	97	109	110	98	64	75	63	84	-46.5	33.3
San Benito	2	-	1	-	1	-	1	3	-	1	-	-
San Bernardino	68	63	58	59	74	76	60	53	58	57	-16.2	-1.7
San Diego	320	305	315	280	264	223	222	263	234	206	-35.6	-12.0
San Francisco	135	132	120	143	118	115	98	108	116	107	-20.7	-7.8
San Joaquin	65	63	78	51	66	76	46	44	44	43	-33.8	-2.3
San Luis Obispo	3	8	2	3	1	3	4	6	3	4	-	-
San Mateo	56	62	78	89	64	66	59	59	54	58	3.6	7.4
Santa Barbara	18	26	15	14	34	22	30	21	24	26	44.4	8.3
Santa Clara	202	199	228	240	197	197	193	180	176	181	-10.4	2.8
Santa Cruz	9	10	6	10	10	5	10	10	7	5	-44.4	-28.6
Shasta	4	6	5	4	2	1	2	-	1	4	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	1	-	-	-	-	-	-	-	-	-	-
Solano	42	38	26	37	33	23	20	34	17	13	-69.0	-23.5
Sonoma	21	11	14	13	9	9	9	13	14	8	-61.9	-42.9
Stanislaus	19	11	16	16	20	20	16	9	7	10	-47.4	42.9
Sutter	-	1	3	1	6	1	4	6	5	4	-	-
Tehama	1	4	2	4	1	2	-	1	-	-	-	-
Trinity	-	-	1	-	-	-	-	-	-	-	-	-
Tulare	21	15	21	25	33	24	26	20	12	16	-23.8	33.3
Tuolumne	1	-	-	-	-	1	-	-	-	-	-	-
Ventura	72	55	49	57	65	48	33	35	34	27	-62.5	-20.6
Yolo	5	9	3	9	8	12	8	3	3	6	20.0	-
Yuba	7	2	-	6	5	-	1	1	2	5	-28.6	-

- Indicates zero cases

. Percent change not calculated where number of cases is less than 5

**Table 14. Tuberculosis Case Rates per 100,000 Population: Reporting Jurisdictions in California, 2004-2013**

Reporting Jurisdiction											Percent Change	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2004-2013	2012-2013
<b>California</b>	<b>8.4</b>	<b>8.1</b>	<b>7.7</b>	<b>7.5</b>	<b>7.3</b>	<b>6.7</b>	<b>6.2</b>	<b>6.2</b>	<b>5.8</b>	<b>5.7</b>	<b>-32.1</b>	<b>-1.7</b>
Alameda	10.5	11.4	10.4	10.9	9.7	11.2	12.7	9.4	9.6	7.9	-24.8	-17.7
Alpine	.	.	.	.	.	.	.	.	.	.	.	.
Amador	.	.	.	.	.	.	.	.	.	.	.	.
Berkeley	.	9.5	4.6	5.5	.	.	8.0	.	5.2	4.3	.	-17.3
Butte	.	.	.	.	.	.	.	.	.	.	.	.
Calaveras	.	.	.	.	.	.	.	.	.	.	.	.
Colusa	.	.	.	.	.	.	.	.	.	.	.	.
Contra Costa	6.4	5.8	4.9	5.0	7.6	4.5	3.1	5.7	5.1	5.3	-17.2	3.9
Del Norte	.	.	.	.	.	.	.	.	.	.	.	.
El Dorado	.	.	.	.	.	.	.	.	.	.	.	.
Fresno	11.9	7.9	7.0	4.6	8.2	7.1	5.9	4.9	3.6	4.1	-65.5	13.9
Glenn	.	.	.	.	.	.	.	.	.	.	.	.
Humboldt	.	.	.	.	.	.	.	3.7	.	.	.	.
Imperial	20.1	20.3	20.3	17.4	12.3	20.8	13.7	15.2	16.8	21.2	5.5	26.2
Inyo	.	.	.	.	.	.	.	.	.	.	.	.
Kern	4.9	5.5	5.2	4.7	6.1	4.9	4.2	4.7	4.0	3.2	-34.7	-20.0
Kings	.	6.2	.	4.0	3.3	.	.	4.0	3.3	4.0	.	21.2
Lake	.	.	.	.	.	.	.	.	.	.	.	.
Lassen	.	.	.	.	.	.	.	.	.	.	.	.
Long Beach	11.4	11.3	8.4	8.4	10.1	9.5	9.1	6.2	7.3	8.1	-28.9	11.0
Los Angeles	10.1	9.8	9.6	8.9	8.6	7.6	7.3	7.3	6.7	7.1	-29.7	6.0
Madera	3.7	6.4	.	.	13.4	5.3	.	7.9	6.6	3.3	-10.8	-50.0
Marin	5.3	4.1	2.4	6.4	2.4	5.6	4.4	4.7	5.9	5.1	-3.8	-13.6
Mariposa	.	.	.	.	.	.	.	.	.	.	.	.
Mendocino	.	.	.	.	.	.	.	.	.	.	.	.
Merced	3.4	3.3	3.7	2.0	2.0	4.3	2.3	2.3	7.3	4.6	35.3	-37.0
Modoc	.	.	.	.	.	.	.	.	.	.	.	.
Mono	.	.	.	.	.	.	.	.	.	.	.	.
Monterey	7.1	9.1	7.1	5.4	5.8	3.9	5.0	6.0	4.3	4.0	-43.7	-7.0
Napa	6.1	.	5.3	5.3	.	5.9	4.4	4.4	.	.	.	.
Nevada	.	.	.	.	.	.	.	.	.	.	.	.
Orange	7.8	8.2	7.6	7.3	7.0	6.6	7.4	6.9	6.2	6.0	-23.1	-3.2
Pasadena	8.7	10.9	5.1	3.7	4.4	.	3.7	3.6	7.9	3.5	-59.8	-55.7
Placer	.	1.6	1.9	4.2	.	2.0	.	1.7	1.7	1.6	.	-5.9
Plumas	.	.	.	.	.	.	.	.	.	.	.	.
Riverside	4.0	3.1	3.7	3.8	3.7	3.2	3.4	3.1	2.5	2.4	-40.0	-4.0
Sacramento	11.7	10.5	7.1	7.9	7.9	6.9	4.5	5.2	4.4	5.8	-50.4	31.8
San Benito	.	.	.	.	.	.	.	.	.	.	.	.
San Bernardino	3.6	3.2	2.9	2.9	3.7	3.8	2.9	2.6	2.8	2.7	-25.0	-3.6
San Diego	10.8	10.3	10.6	9.3	8.7	7.2	7.2	8.4	7.4	6.5	-39.8	-12.2
San Francisco	17.3	16.9	15.3	18.1	14.8	14.3	12.2	13.3	14.1	12.9	-25.4	-8.5
San Joaquin	10.2	9.7	11.8	7.6	9.8	11.2	6.7	6.4	6.3	6.1	-40.2	-3.2
San Luis Obispo	.	3.1	.	.	.	.	2.2	.	.	.	.	.
San Mateo	8.0	8.9	11.2	12.6	9.0	9.2	8.2	8.1	7.3	7.8	-2.5	6.8
Santa Barbara	4.4	6.3	3.6	3.4	8.1	5.2	7.1	4.9	5.6	6.0	36.4	7.1
Santa Clara	11.9	11.7	13.3	13.8	11.2	11.1	10.8	10.0	9.6	9.8	-17.6	2.1
Santa Cruz	3.5	3.9	2.3	3.9	3.8	1.9	3.8	3.8	2.6	1.8	-48.6	-30.8
Shasta	.	3.4	2.9	.	.	.	.	.	.	.	.	.
Sierra	.	.	.	.	.	.	.	.	.	.	.	.
Siskiyou	.	.	.	.	.	.	.	.	.	.	.	.
Solano	10.2	9.3	6.3	9.0	8.0	5.6	4.8	8.2	4.1	3.1	-69.6	-24.4
Sonoma	4.5	2.3	3.0	2.7	1.9	1.9	1.9	2.7	2.9	1.6	-64.4	-44.8
Stanislaus	3.9	2.2	3.2	3.1	3.9	3.9	3.1	1.7	1.3	1.9	-51.3	46.2
Sutter	.	.	.	.	6.4	.	.	6.3	5.2	.	.	.
Tehama	.	.	.	.	.	.	.	.	.	.	.	.
Trinity	.	.	.	.	.	.	.	.	.	.	.	.
Tulare	5.3	3.7	5.0	5.9	7.6	5.5	5.9	4.5	2.7	3.5	-34.0	29.6
Tuolumne	.	.	.	.	.	.	.	.	.	.	.	.
Ventura	9.1	6.9	6.1	7.1	8.0	5.9	4.0	4.2	4.1	3.2	-64.8	-22.0
Yolo	2.7	4.8	.	4.6	4.0	6.0	4.0	.	.	2.9	7.4	.
Yuba	10.7	.	.	8.5	7.0	.	.	.	.	6.8	-36.4	.

Note: Denominators for computing rates are calculated using California Department of Finance, *E-2 California County Population Estimates and Components of Change*, and *E-1 Population Estimates for Cities, Counties, and the State*.

. Rates and rate changes not calculated where number of cases is less than 5

**Table 15. Tuberculosis Cases by Age Group: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	All Ages	Age Group						
		0-4	5-14	15-24	25-44	45-64	65+	Unknown
<b>California</b>	<b>2,169</b>	<b>58</b>	<b>32</b>	<b>183</b>	<b>551</b>	<b>666</b>	<b>678</b>	<b>1</b>
Alameda	114	1	1	7	33	35	37	-
Berkeley	5	-	-	1	1	-	3	-
Contra Costa	57	2	-	2	12	18	23	-
Fresno	39	2	1	2	5	15	14	-
Imperial	38	2	-	2	16	9	9	-
Kern	28	-	-	-	15	7	6	-
Kings	6	-	-	1	2	-	3	-
Long Beach	38	-	-	4	11	14	9	-
Los Angeles	666	18	7	54	168	214	205	-
Madera	5	-	-	-	2	2	1	-
Marin	13	-	-	-	3	4	6	-
Merced	12	2	-	1	2	4	2	1
Monterey	17	1	1	1	6	1	7	-
Orange	187	2	2	19	43	64	57	-
Pasadena	5	-	-	1	-	3	1	-
Placer	6	-	-	1	1	1	3	-
Riverside	54	1	1	5	15	14	18	-
Sacramento	84	1	2	6	20	31	24	-
San Bernardino	57	3	4	5	12	18	15	-
San Diego	206	3	5	29	61	58	50	-
San Francisco	107	2	1	3	25	35	41	-
San Joaquin	43	4	1	5	7	6	20	-
San Mateo	58	2	1	7	9	19	20	-
Santa Barbara	26	1	2	4	6	6	7	-
Santa Clara	181	2	2	13	53	52	59	-
Santa Cruz	5	1	-	-	-	2	2	-
Solano	13	-	-	-	2	4	7	-
Sonoma	8	1	-	2	-	3	2	-
Stanislaus	10	3	-	1	1	4	1	-
Tulare	16	1	-	2	3	5	5	-
Ventura	27	2	-	2	9	4	10	-
Yolo	6	-	-	-	1	4	1	-
Yuba	5	1	-	-	-	1	3	-
All Other Jurisdictions*	27	-	1	3	7	9	7	-

- Indicates zero cases

\* Reporting jurisdictions with fewer than 5 cases

**Table 16. Tuberculosis Cases in Persons 0-4 Years of Age: Reporting Jurisdictions in California, 2005-2013**

Reporting Jurisdiction	2005		2006		2007		2008		2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	85	2.9	91	3.3	89	3.3	90	3.3	70	2.8	55	2.4	82	3.5	48	2.2	58	2.7
Alameda	3	1.9	-	-	3	2.0	1	0.7	4	2.6	3	1.7	3	2.3	3	2.2	1	0.9
Contra Costa	-	-	1	2.0	3	5.9	3	3.8	1	2.1	-	-	2	3.3	-	-	2	3.5
Fresno	5	7.2	3	4.8	2	4.9	8	10.7	3	4.5	3	5.5	3	6.5	-	-	2	5.1
Imperial	2	6.3	3	9.1	1	3.4	1	4.8	-	-	-	-	-	-	1	3.3	2	5.3
Kern	1	2.4	1	2.4	2	5.3	1	2.0	1	2.4	1	2.9	5	12.5	2	5.9	-	-
Long Beach	-	-	-	-	2	5.1	1	2.1	1	2.3	1	2.4	1	3.4	2	5.9	-	-
Los Angeles	26	2.9	31	3.5	27	3.3	24	3.0	14	2.0	15	2.2	29	4.3	9	1.4	18	2.7
Marin	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6.7	-	-	
Merced	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5.3	2	16.7	
Monterey	1	2.7	3	10.3	-	-	4	16.7	1	6.3	2	9.5	3	12.0	3	16.7	1	5.9
Orange	4	1.7	8	3.5	9	4.1	6	2.9	4	2.0	6	2.7	2	1.0	2	1.0	2	1.1
Riverside	1	1.7	1	1.4	1	1.3	3	3.8	2	2.9	-	-	1	1.5	1	1.8	1	1.9
Sacramento	4	2.8	-	-	4	3.7	1	0.9	1	1.0	1	1.6	2	2.7	1	1.6	1	1.2
San Bernardino	3	4.8	3	5.2	-	-	1	1.4	5	6.6	-	-	2	3.8	1	1.7	3	5.3
San Diego	14	4.6	19	6.0	10	3.6	5	1.9	9	4.0	8	3.6	7	2.7	6	2.6	3	1.5
San Francisco	2	1.5	1	0.8	1	0.7	4	3.4	2	1.7	1	1.0	5	4.6	-	-	2	1.9
San Joaquin	4	6.3	3	3.8	4	7.8	4	6.1	7	9.2	-	-	3	6.8	3	6.8	4	9.3
San Mateo	2	3.2	-	-	2	2.2	3	4.7	-	-	2	3.4	2	3.4	-	-	2	3.4
Santa Barbara	2	7.7	-	-	-	-	3	8.8	2	9.1	2	6.7	3	14.3	2	8.3	1	3.8
Santa Clara	3	1.5	6	2.6	6	2.5	5	2.5	6	3.0	4	2.1	4	2.2	3	1.7	2	1.1
Santa Cruz	1	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	20.0
Solano	-	-	3	11.5	-	-	3	9.1	-	-	1	5.0	-	-	-	-	-	-
Sonoma	-	-	-	-	-	-	1	11.1	-	-	-	-	1	7.7	2	14.3	1	12.5
Stanislaus	-	-	-	-	-	-	-	-	-	-	1	6.3	-	-	-	-	3	30.0
Tulare	-	-	2	9.5	1	4.0	4	12.1	3	12.5	1	3.8	1	5.0	1	8.3	1	6.3
Ventura	-	-	1	2.0	4	7.0	1	1.5	3	6.3	3	9.1	2	5.7	1	2.9	2	7.4
All Other Jurisdictions*	7	7.1	2	3.0	7	8.8	3	3.7	1	1.5	-	-	1	1.5	3	3.8	1	1.5

- Indicates zero cases or zero percent

\* Reporting jurisdictions with fewer than 5 total cases in any year

**Table 17. Tuberculosis Cases 0-14 Years of Age that Lived Outside the U.S. for Greater than Two Months: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Cases Ages 0-4 Yrs						Cases Ages 5-14 Yrs					
	Cases 0-4 Yrs	Cases with Information		Lived Outside U.S. $\geq$ Two Months		Cases 5-14 Yrs	Cases with Information		Lived Outside U.S. $\geq$ Two Months			
		No.	%	No.	%		No.	%	No.	%		
<b>California</b>	<b>58</b>	<b>57</b>	<b>98.3</b>	<b>13</b>	<b>22.8</b>	<b>32</b>	<b>32</b>	<b>100.0</b>	<b>6</b>	<b>18.8</b>		
Alameda	1	-	-	-	-	1	1	100.0	-	-		
Berkeley	-	-	-	-	-	-	-	-	-	-		
Contra Costa	2	2	100.0	-	-	-	-	-	-	-		
Fresno	2	2	100.0	-	-	1	1	100.0	-	-		
Imperial	2	2	100.0	-	-	-	-	-	-	-		
Kern	-	-	-	-	-	-	-	-	-	-		
Kings	-	-	-	-	-	-	-	-	-	-		
Long Beach	-	-	-	-	-	-	-	-	-	-		
Los Angeles	18	18	100.0	3	16.7	7	7	100.0	2	28.6		
Madera	-	-	-	-	-	-	-	-	-	-		
Marin	-	-	-	-	-	-	-	-	-	-		
Merced	2	2	100.0	-	-	-	-	-	-	-		
Monterey	1	1	100.0	1	100.0	1	1	100.0	-	-		
Orange	2	2	100.0	-	-	2	2	100.0	1	50.0		
Pasadena	-	-	-	-	-	-	-	-	-	-		
Placer	-	-	-	-	-	-	-	-	-	-		
Riverside	1	1	100.0	-	-	1	1	100.0	-	-		
Sacramento	1	1	100.0	-	-	2	2	100.0	-	-		
San Bernardino	3	3	100.0	1	33.3	4	4	100.0	2	50.0		
San Diego	3	3	100.0	2	66.7	5	5	100.0	-	-		
San Francisco	2	2	100.0	-	-	1	1	100.0	-	-		
San Joaquin	4	4	100.0	-	-	1	1	100.0	-	-		
San Mateo	2	2	100.0	-	-	1	1	100.0	-	-		
Santa Barbara	1	1	100.0	-	-	2	2	100.0	-	-		
Santa Clara	2	2	100.0	1	50.0	2	2	100.0	-	-		
Santa Cruz	1	1	100.0	1	100.0	-	-	-	-	-		
Solano	-	-	-	-	-	-	-	-	-	-		
Sonoma	1	1	100.0	1	100.0	-	-	-	-	-		
Stanislaus	3	3	100.0	2	66.7	-	-	-	-	-		
Tulare	1	1	100.0	-	-	-	-	-	-	-		
Ventura	2	2	100.0	1	50.0	-	-	-	-	-		
Yolo	-	-	-	-	-	-	-	-	-	-		
Yuba	1	1	100.0	-	-	-	-	-	-	-		
All Other Jurisdictions*	-	-	-	-	-	1	1	100.0	1	100.0		

- Indicates zero cases or zero percent

\* Reporting jurisdictions with fewer than 5 total cases

**Table 18. Tuberculosis Cases by Race/Ethnicity: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Race/Ethnicity						
		White Not Hispanic	Black Not Hispanic	Hispanic	Asian	Amer Indian/Alaska Native	Nat Hawaiian/Pacific Islander	Multi-race*
California	2,169	182	135	783	1,051	3	7	8
Alameda	114	5	11	15	80	1	2	-
Berkeley	5	-	-	-	4	-	-	1
Contra Costa	57	10	9	7	30	-	1	-
Fresno	39	1	1	18	19	-	-	-
Imperial	38	2	-	34	-	1	1	-
Kern	28	4	1	20	3	-	-	-
Kings	6	-	-	4	2	-	-	-
Long Beach	38	2	3	12	21	-	-	-
Los Angeles	666	43	60	292	271	-	-	-
Madera	5	-	-	5	-	-	-	-
Marin	13	9	-	1	3	-	-	-
Merced	12	-	-	7	5	-	-	-
Monterey	17	-	-	16	1	-	-	-
Orange	187	9	2	42	130	-	-	4
Pasadena	5	-	1	3	1	-	-	-
Placer	6	-	-	1	5	-	-	-
Riverside	54	12	1	30	11	-	-	-
Sacramento	84	7	11	10	55	-	1	-
San Bernardino	57	6	4	27	20	-	-	-
San Diego	206	16	11	115	63	-	1	-
San Francisco	107	14	10	13	70	-	-	-
San Joaquin	43	4	-	10	28	-	-	1
San Mateo	58	7	-	11	38	1	-	1
Santa Barbara	26	3	-	19	4	-	-	-
Santa Clara	181	9	6	18	147	-	-	1
Santa Cruz	5	2	-	2	1	-	-	-
Solano	13	1	3	-	9	-	-	-
Sonoma	8	3	-	3	2	-	-	-
Stanislaus	10	1	-	8	1	-	-	-
Tulare	16	1	-	11	4	-	-	-
Ventura	27	4	-	14	9	-	-	-
Yolo	6	1	1	3	1	-	-	-
Yuba	5	-	-	-	5	-	-	-
All Other Jurisdictions**	27	6	-	12	8	-	1	-

- Indicates zero cases

\* Two or more races reported

\*\* Reporting jurisdictions with fewer than 5 cases

**Table 19. Tuberculosis Cases by U.S.-born and Foreign-born Persons: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	All Cases	Foreign-born		U.S.-born		Unknown	
		No.	%	No.	%	No.	%
California	2,169	1,695	78.1	469	21.6	5	0.2
Alameda	114	96	84.2	18	15.8	-	-
Berkeley	5	5	100.0	-	-	-	-
Contra Costa	57	44	77.2	13	22.8	-	-
Fresno	39	31	79.5	8	20.5	-	-
Imperial	38	19	50.0	19	50.0	-	-
Kern	28	23	82.1	5	17.9	-	-
Kings	6	5	83.3	1	16.7	-	-
Long Beach	38	29	76.3	9	23.7	-	-
Los Angeles	666	529	79.4	135	20.3	2	0.3
Madera	5	5	100.0	-	-	-	-
Marin	13	6	46.2	7	53.8	-	-
Merced	12	7	58.3	5	41.7	-	-
Monterey	17	13	76.5	4	23.5	-	-
Orange	187	169	90.4	18	9.6	-	-
Pasadena	5	3	60.0	2	40.0	-	-
Placer	6	5	83.3	1	16.7	-	-
Riverside	54	41	75.9	13	24.1	-	-
Sacramento	84	64	76.2	20	23.8	-	-
San Bernardino	57	40	70.2	17	29.8	-	-
San Diego	206	142	68.9	64	31.1	-	-
San Francisco	107	86	80.4	21	19.6	-	-
San Joaquin	43	26	60.5	17	39.5	-	-
San Mateo	58	49	84.5	9	15.5	-	-
Santa Barbara	26	16	61.5	10	38.5	-	-
Santa Clara	181	165	91.2	14	7.7	2	1.1
Santa Cruz	5	2	40.0	3	60.0	-	-
Solano	13	9	69.2	4	30.8	-	-
Sonoma	8	4	50.0	3	37.5	1	12.5
Stanislaus	10	6	60.0	4	40.0	-	-
Tulare	16	12	75.0	4	25.0	-	-
Ventura	27	18	66.7	9	33.3	-	-
Yolo	6	5	83.3	1	16.7	-	-
Yuba	5	4	80.0	1	20.0	-	-
All Other Jurisdictions*	27	17	63.0	10	37.0	-	-

- Indicates zero cases or zero percent

\* Reporting jurisdictions with fewer than 5 cases

**Table 20. Tuberculosis Cases in Foreign-born Persons by Time in the United States: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Foreign-born Cases	≤1 year		1-2 years		3-5 years		6-10 years		11-20 years		>20 years		Unknown Time in U.S.	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	1,695	150	8.8	44	2.6	145	8.6	193	11.4	381	22.5	713	42.1	69	4.1
Alameda	96	12	12.5	1	1.0	9	9.4	9	9.4	21	21.9	37	38.5	7	7.3
Berkeley	5	-	-	1	20.0	-	-	1	20.0	1	20.0	2	40.0	-	-
Contra Costa	44	1	2.3	2	4.5	1	2.3	6	13.6	11	25.0	23	52.3	-	-
Fresno	31	3	9.7	2	6.5	1	3.2	4	12.9	5	16.1	13	41.9	3	9.7
Imperial	19	3	15.8	-	-	-	-	-	-	1	5.3	15	78.9	-	-
Kern	23	-	-	1	4.3	5	21.7	3	13.0	4	17.4	10	43.5	-	-
Kings	5	-	-	-	-	-	-	2	40.0	-	-	2	40.0	1	20.0
Long Beach	29	3	10.3	-	-	5	17.2	2	6.9	6	20.7	11	37.9	2	6.9
Los Angeles	529	37	7.0	9	1.7	36	6.8	70	13.2	142	26.8	233	44.0	2	0.4
Madera	5	-	-	-	-	-	-	1	20.0	2	40.0	2	40.0	-	-
Marin	6	-	-	-	-	-	-	2	33.3	2	33.3	2	33.3	-	-
Merced	7	-	-	-	-	1	14.3	1	14.3	3	42.9	1	14.3	1	14.3
Monterey	13	1	7.7	-	-	2	15.4	1	7.7	2	15.4	7	53.8	-	-
Orange	169	20	11.8	2	1.2	18	10.7	20	11.8	31	18.3	71	42.0	7	4.1
Pasadena	3	-	-	1	33.3	-	-	-	-	1	33.3	1	33.3	-	-
Placer	5	-	-	1	20.0	-	-	-	-	3	60.0	1	20.0	-	-
Riverside	41	4	9.8	1	2.4	-	-	3	7.3	9	22.0	18	43.9	6	14.6
Sacramento	64	6	9.4	1	1.6	3	4.7	12	18.8	10	15.6	21	32.8	11	17.2
San Bernardino	40	-	-	3	7.5	2	5.0	1	2.5	4	10.0	18	45.0	12	30.0
San Diego	142	17	12.0	5	3.5	11	7.7	8	5.6	24	16.9	77	54.2	-	-
San Francisco	86	8	9.3	3	3.5	9	10.5	12	14.0	19	22.1	35	40.7	-	-
San Joaquin	26	1	3.8	1	3.8	1	3.8	-	-	4	15.4	18	69.2	1	3.8
San Mateo	49	3	6.1	2	4.1	9	18.4	8	16.3	13	26.5	13	26.5	1	2.0
Santa Barbara	16	3	18.8	-	-	1	6.3	3	18.8	5	31.3	2	12.5	2	12.5
Santa Clara	165	17	10.3	8	4.8	23	13.9	17	10.3	44	26.7	49	29.7	7	4.2
Santa Cruz	2	-	-	-	-	-	-	-	-	1	50.0	1	50.0	-	-
Solano	9	-	-	-	-	1	11.1	-	-	5	55.6	3	33.3	-	-
Sonoma	4	2	50.0	-	-	1	25.0	-	-	-	-	1	25.0	-	-
Stanislaus	6	-	-	-	-	2	33.3	2	33.3	1	16.7	1	16.7	-	-
Tulare	12	2	16.7	-	-	3	25.0	-	-	1	8.3	5	41.7	1	8.3
Ventura	18	3	16.7	-	-	-	-	1	5.6	1	5.6	9	50.0	4	22.2
Yolo	5	1	20.0	-	-	1	20.0	-	-	-	-	3	60.0	-	-
Yuba	4	-	-	-	-	-	-	1	25.0	1	25.0	1	25.0	1	25.0
All Other Jurisdictions*	17	3	17.6	-	-	-	-	3	17.6	4	23.5	7	41.2	-	-

- Indicates zero cases or zero percent

\* Reporting jurisdictions with fewer than 5 total cases

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**Table 21. Immigration Status of Foreign-born Tuberculosis Cases at First Entry into the United States: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Foreign-born Cases with Information	Immigration Status*																	
		Immigration		Student		Employment		Tourist		Family		Asylee or Parolee		Other					
		Visa		Visa		Visa		Visa		Visa		Refugee		or Parolee		Immigration Status**		Unknown***	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	1,692	742	43.9	35	2.1	32	1.9	59	3.5	60	3.5	59	3.5	9	0.5	400	23.6	296	17.5
Alameda	96	61	63.5	2	2.1	4	4.2	8	8.3	2	2.1	-	-	2	2.1	9	9.4	8	8.3
Berkeley	5	-	-	1	20.0	-	-	-	-	-	-	-	-	-	-	-	-	4	80.0
Contra Costa	44	30	68.2	-	-	1	2.3	3	6.8	-	-	4	9.1	2	4.5	4	9.1	-	-
Fresno	31	3	9.7	-	-	-	-	1	3.2	-	-	4	12.9	-	-	23	74.2	-	-
Imperial	19	3	15.8	-	-	-	-	-	-	1	5.3	-	-	-	-	15	78.9	-	-
Kern	23	5	21.7	-	-	1	4.3	2	8.7	2	8.7	-	-	-	-	13	56.5	-	-
Kings	5	2	40.0	-	-	-	-	1	20.0	-	-	-	-	-	-	2	40.0	-	-
Long Beach	29	12	41.4	1	3.4	-	-	-	-	1	3.4	3	10.3	-	-	9	31.0	3	10.3
Los Angeles	528	121	22.9	7	1.3	1	0.2	13	2.5	1	0.2	3	0.6	1	0.2	140	26.5	241	45.6
Madera	5	1	20.0	-	-	1	20.0	-	-	-	-	-	-	-	-	2	40.0	1	20.0
Marin	6	4	66.7	-	-	-	-	1	16.7	-	-	-	-	-	-	1	16.7	-	-
Merced	7	1	14.3	-	-	-	-	1	14.3	-	-	1	14.3	-	-	4	57.1	-	-
Monterey	13	2	15.4	-	-	3	23.1	-	-	3	23.1	-	-	-	-	4	30.8	1	7.7
Orange	169	129	76.3	6	3.6	2	1.2	5	3.0	1	0.6	6	3.6	-	-	20	11.8	-	-
Pasadena	3	1	33.3	-	-	-	-	-	-	-	-	-	-	-	-	2	66.7	-	-
Placer	5	4	80.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	20.0
Riverside	40	19	47.5	1	2.5	-	-	-	-	-	-	-	-	-	-	1	2.5	19	47.5
Sacramento	64	63	98.4	-	-	-	-	1	1.6	-	-	-	-	-	-	-	-	-	-
San Bernardino	40	1	2.5	2	5.0	-	-	-	-	-	-	-	-	-	-	1	2.5	35	87.5
San Diego	142	84	59.2	3	2.1	2	1.4	11	7.7	10	7.0	10	7.0	2	1.4	20	14.1	-	-

- Indicates zero cases or zero percent

\* See Technical Notes for more information on reporting immigration status.

\*\* Foreign-born TB patients who first entered the United States with a status that is other than those listed and whose status is not unknown

\*\*\*Foreign-born TB patients who do not know their immigration status at first entry to the United States or patients in jurisdictions with policies that forbid asking patients their immigration status

† Reporting jurisdictions with fewer than 5 total cases

**Table 21. Immigration Status of Foreign-born Tuberculosis Cases at First Entry into the United States: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Information	No.	% Foreign-born Cases	Immigration Status*												Other			
				Immigration		Student		Employment		Tourist		Family		Asylee or Parolee		Immigration Status**			
				Visa		Visa		Visa		Visa		Visa		Refugee		No. %			
				No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
San Francisco		86	72	83.7		1	1.2	1	1.2	2	2.3	-	-	4	4.7	1	1.2		
San Joaquin		26	8	30.8		-	-	1	3.8	1	3.8	-	-	8	30.8	-	-		
San Mateo		49	8	16.3		1	2.0	-	-	2	4.1	4	8.2	-	-	-	34	69.4	
Santa Barbara		16	5	31.3		-	-	-	-	-	-	1	6.3	-	-	-	8	50.0	
Santa Clara		165	78	47.3		9	5.5	11	6.7	4	2.4	32	19.4	12	7.3	-	-	17	10.3
Santa Cruz		2	-	-		-	-	-	-	-	-	-	-	-	-	-	1	50.0	
Solano		9	9	100.0		-	-	-	-	-	-	-	-	-	-	-	-	-	
Sonoma		3	-	-		-	-	-	-	-	-	2	66.7	-	-	-	-	1	33.3
Stanislaus		6	3	50.0		-	-	1	16.7	-	-	-	-	1	16.7	-	-	1	16.7
Tulare		12	4	33.3		-	-	-	-	-	-	-	-	1	8.3	-	-	7	58.3
Ventura		18	-	-		1	5.6	1	5.6	-	-	-	-	1	5.6	-	-	14	77.8
Yolo		5	4	80.0		-	-	-	-	-	-	-	-	-	-	-	-	1	20.0
Yuba		4	-	-		-	-	-	-	-	-	-	-	-	-	-	-	4	100.0
All Other Jurisdictions†		17	5	29.4		-	-	2	11.8	3	17.6	-	-	1	5.9	-	-	4	23.5
																		2	11.8

- Indicates zero cases or zero percent

\* See Technical Notes for more information on reporting immigration status.

\*\* Foreign-born TB patients who first entered the United States with a status that is other than those listed and whose status is not unknown

\*\*\*Foreign-born TB patients who do not know their immigration status at first entry to the United States or patients in jurisdictions with policies that forbid asking patients their immigration status

† Reporting jurisdictions with fewer than 5 total cases

**Table 22. Primary Reason Evaluated for Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Primary Reason Evaluated for TB Disease*																	
		Cases with Information on Reason Evaluated		TB Symptoms		Abnormal Chest Image		Contact Investigation		Targeted Investigation		Health Care Worker		Employment or Administrative		Immigration□		Incidental	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	2,169	2,160	99.6	1,405	65.0	373	17.3	78	3.6	64	3.0	6	0.3	13	0.6	47	2.2	174	8.1
Alameda	114	113	99.1	94	83.2	7	6.2	2	1.8	3	2.7	1	0.9	-	-	2	1.8	4	3.5
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Berkeley	5	5	100.0	2	40.0	3	60.0	-	-	-	-	-	-	-	-	-	-	-	
Butte	4	4	100.0	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-	-	
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Contra Costa	57	57	100.0	38	66.7	9	15.8	1	1.8	-	-	-	-	1	1.8	2	3.5	6	10.5
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
El Dorado	1	1	100.0	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fresno	39	39	100.0	29	74.4	3	7.7	2	5.1	-	-	-	-	-	-	-	-	5	12.8
Glenn	1	1	100.0	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	
Humboldt	2	2	100.0	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
Imperial	38	38	100.0	17	44.7	20	52.6	1	2.6	-	-	-	-	-	-	-	-	-	
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kern	28	28	100.0	23	82.1	4	14.3	-	-	-	-	-	-	-	-	-	-	1	3.6
Kings	6	6	100.0	2	33.3	3	50.0	-	-	-	-	-	-	1	16.7	-	-	-	
Lake	2	2	100.0	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Long Beach	38	38	100.0	24	63.2	7	18.4	-	-	-	-	-	-	1	2.6	3	7.9	3	7.9
Los Angeles	666	666	100.0	456	68.5	113	17.0	25	3.8	6	0.9	1	0.2	3	0.5	11	1.7	51	7.7
Madera	5	5	100.0	4	80.0	1	20.0	-	-	-	-	-	-	-	-	-	-	-	
Marin	13	13	100.0	10	76.9	3	23.1	-	-	-	-	-	-	-	-	-	-	-	
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mendocino	1	1	100.0	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
Merced	12	9	75.0	4	44.4	2	22.2	2	22.2	-	-	-	-	-	-	-	-	1	11.1
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monterey	17	17	100.0	8	47.1	4	23.5	2	11.8	-	-	-	-	-	-	1	5.9	2	11.8
Napa	3	3	100.0	2	66.7	-	-	-	-	-	-	-	-	-	-	-	1	33.3	

- Indicates zero cases or zero percent

\* See Technical Notes for details about reporting the primary reason patient was evaluated for TB.

California Department of Public Health, Tuberculosis Control Branch

**Table 22. Primary Reason Evaluated for Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Primary Reason Evaluated for TB Disease*																
		Cases with Information on Reason Evaluated		TB Symptoms		Abnormal Chest Image		Contact Investigation		Targeted Investigation		Health Care Worker		Employment or Administrative Testing		Immigration□ Medical Exam		
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Orange	187	187	100.0	113	60.4	29	15.5	8	4.3	2	1.1	1	0.5	-	-	11	5.9	
Pasadena	5	5	100.0	3	60.0	2	40.0	-	-	-	-	-	-	-	-	-	-	
Placer	6	6	100.0	5	83.3	1	16.7	-	-	-	-	-	-	-	-	-	-	
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Riverside	54	53	98.1	38	71.7	4	7.5	-	-	-	-	1	1.9	-	-	2	3.8	
Sacramento	84	84	100.0	59	70.2	5	6.0	2	2.4	15	17.9	-	-	-	-	2	2.4	
San Benito	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	
San Bernardino	57	57	100.0	47	82.5	5	8.8	2	3.5	-	-	-	-	-	-	-	3	5.3
San Diego	206	206	100.0	102	49.5	40	19.4	10	4.9	25	12.1	-	-	4	1.9	4	1.9	
San Francisco	107	107	100.0	88	82.2	14	13.1	3	2.8	-	-	-	-	-	-	2	1.9	-
San Joaquin	43	42	97.7	15	35.7	7	16.7	8	19.0	1	2.4	1	2.4	-	-	-	10	23.8
San Luis Obispo	4	4	100.0	1	25.0	3	75.0	-	-	-	-	-	-	-	-	-	-	
San Mateo	58	58	100.0	30	51.7	12	20.7	5	8.6	7	12.1	1	1.7	-	-	1	1.7	
Santa Barbara	26	26	100.0	16	61.5	2	7.7	1	3.8	-	-	-	-	-	-	1	3.8	
Santa Clara	181	179	98.9	115	64.2	33	18.4	3	1.7	2	1.1	-	-	3	1.7	4	2.2	
31 Santa Cruz	5	5	100.0	2	40.0	3	60.0	-	-	-	-	-	-	-	-	-	-	
Shasta	4	4	100.0	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-	
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Solano	13	13	100.0	3	23.1	10	76.9	-	-	-	-	-	-	-	-	-	-	
Sonoma	8	8	100.0	3	37.5	3	37.5	-	-	-	-	-	-	-	-	-	2	25.0
Stanislaus	10	10	100.0	6	60.0	3	30.0	-	-	-	-	-	-	-	-	-	1	10.0
Sutter	4	4	100.0	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-	
Tehama	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tulare	16	16	100.0	12	75.0	4	25.0	-	-	-	-	-	-	-	-	-	-	
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ventura	27	27	100.0	11	40.7	9	33.3	-	-	3	11.1	-	-	-	-	1	3.7	
Yolo	6	5	83.3	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Yuba	5	5	100.0	3	60.0	1	20.0	1	20.0	-	-	-	-	-	-	-	-	

- Indicates zero cases or zero percent

\* See Technical Notes for details about reporting the primary reason patient was evaluated for TB.

California Department of Public Health, Tuberculosis Control Branch

**Table 23. Tuberculosis Cases by Form of Disease: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Pulmonary*		Extrapulmonary**		Both Pulmonary and Extrapulmonary Disease	
		No.	%	No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>1,504</b>	<b>69.3</b>	<b>444</b>	<b>20.5</b>	<b>221</b>	<b>10.2</b>
Alameda	114	74	64.9	31	27.2	9	7.9
Alpine	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-
Berkeley	5	5	100.0	-	-	-	-
Butte	4	3	75.0	-	-	1	25.0
Calaveras	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-
Contra Costa	57	32	56.1	21	36.8	4	7.0
Del Norte	-	-	-	-	-	-	-
El Dorado	1	-	-	-	-	1	100.0
Fresno	39	31	79.5	4	10.3	4	10.3
Glenn	1	1	100.0	-	-	-	-
Humboldt	2	2	100.0	-	-	-	-
Imperial	38	31	81.6	6	15.8	1	2.6
Inyo	-	-	-	-	-	-	-
Kern	28	24	85.7	4	14.3	-	-
Kings	6	4	66.7	1	16.7	1	16.7
Lake	2	2	100.0	-	-	-	-
Lassen	-	-	-	-	-	-	-
Long Beach	38	23	60.5	13	34.2	2	5.3
Los Angeles	666	459	68.9	130	19.5	77	11.6
Madera	5	5	100.0	-	-	-	-
Marin	13	10	76.9	2	15.4	1	7.7
Mariposa	-	-	-	-	-	-	-
Mendocino	1	1	100.0	-	-	-	-
Merced	12	11	91.7	-	-	1	8.3
Modoc	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-
Monterey	17	11	64.7	4	23.5	2	11.8
Napa	3	-	-	3	100.0	-	-
Nevada	-	-	-	-	-	-	-
Orange	187	124	66.3	51	27.3	12	6.4
Pasadena	5	4	80.0	1	20.0	-	-
Placer	6	1	16.7	5	83.3	-	-
Plumas	-	-	-	-	-	-	-
Riverside	54	47	87.0	5	9.3	2	3.7
Sacramento	84	68	81.0	11	13.1	5	6.0
San Benito	1	-	-	-	-	1	100.0
San Bernardino	57	42	73.7	13	22.8	2	3.5
San Diego	206	140	68.0	30	14.6	36	17.5
San Francisco	107	64	59.8	28	26.2	15	14.0
San Joaquin	43	32	74.4	6	14.0	5	11.6
San Luis Obispo	4	4	100.0	-	-	-	-
San Mateo	58	46	79.3	11	19.0	1	1.7
Santa Barbara	26	16	61.5	4	15.4	6	23.1
Santa Clara	181	119	65.7	49	27.1	13	7.2
Santa Cruz	5	5	100.0	-	-	-	-
Shasta	4	3	75.0	1	25.0	-	-
Sierra	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-
Solano	13	11	84.6	1	7.7	1	7.7
Sonoma	8	5	62.5	3	37.5	-	-
Stanislaus	10	8	80.0	2	20.0	-	-
Sutter	4	3	75.0	-	-	1	25.0
Tehama	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-
Tulare	16	5	31.3	-	-	11	68.8
Tuolumne	-	-	-	-	-	-	-
Ventura	27	20	74.1	3	11.1	4	14.8
Yolo	6	3	50.0	1	16.7	2	33.3
Yuba	5	5	100.0	-	-	-	-

- Indicates zero cases or zero percent

\* Cases with only pulmonary site of disease

\*\* Cases with pleural, lymphatic, bone and/or joint, meningeal, peritoneal, or other site of disease; no cases with pulmonary disease are included

**Table 24. Verification Criteria\* by Diagnostic Classification of Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Laboratory Confirmation of TB						Clinical Confirmation of TB			
		Positive Culture		Positive NAAT**		Positive Smear		Clinical Case		Provider Diagnosis	
		No.	%	No.	%	No.	%	No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>1,756</b>	<b>81.0</b>	<b>44</b>	<b>2.0</b>	<b>10</b>	<b>0.5</b>	<b>279</b>	<b>12.9</b>	<b>80</b>	<b>3.7</b>
Alameda	114	87	76.3	2	1.8	-	-	22	19.3	3	2.6
Alpine	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-
Berkeley	5	5	100.0	-	-	-	-	-	-	-	-
Butte	4	4	100.0	-	-	-	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	57	42	73.7	1	1.8	1	1.8	13	22.8	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	100.0	-	-	-	-	-	-	-	-
Fresno	39	35	89.7	-	-	-	-	3	7.7	1	2.6
Glenn	1	1	100.0	-	-	-	-	-	-	-	-
Humboldt	2	2	100.0	-	-	-	-	-	-	-	-
Imperial	38	31	81.6	1	2.6	-	-	5	13.2	1	2.6
Inyo	-	-	-	-	-	-	-	-	-	-	-
Kern	28	23	82.1	1	3.6	1	3.6	2	7.1	1	3.6
Kings	6	5	83.3	-	-	-	-	1	16.7	-	-
Lake	2	1	50.0	-	-	-	-	1	50.0	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-
Long Beach	38	31	81.6	-	-	-	-	6	15.8	1	2.6
Los Angeles	666	538	80.8	6	0.9	4	0.6	96	14.4	22	3.3
Madera	5	5	100.0	-	-	-	-	-	-	-	-
Marin	13	8	61.5	-	-	-	-	3	23.1	2	15.4
Mariposa	-	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	100.0	-	-	-	-	-	-	-	-
Merced	12	12	100.0	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-
Monterey	17	15	88.2	-	-	-	-	2	11.8	-	-
Napa	3	2	66.7	-	-	-	-	1	33.3	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
Orange	187	160	85.6	3	1.6	1	0.5	17	9.1	6	3.2
Pasadena	5	4	80.0	-	-	-	-	1	20.0	-	-
Placer	6	3	50.0	3	50.0	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-
Riverside	54	50	92.6	1	1.9	1	1.9	1	1.9	1	1.9
Sacramento	84	71	84.5	1	1.2	-	-	10	11.9	2	2.4
San Benito	1	1	100.0	-	-	-	-	-	-	-	-
San Bernardino	57	48	84.2	1	1.8	1	1.8	4	7.0	3	5.3
San Diego	206	170	82.5	8	3.9	-	-	24	11.7	4	1.9
San Francisco	107	74	69.2	4	3.7	-	-	25	23.4	4	3.7
San Joaquin	43	38	88.4	1	2.3	-	-	3	7.0	1	2.3
San Luis Obispo	4	4	100.0	-	-	-	-	-	-	-	-
San Mateo	58	46	79.3	-	-	1	1.7	9	15.5	2	3.4
Santa Barbara	26	24	92.3	-	-	-	-	1	3.8	1	3.8
Santa Clara	181	146	80.7	2	1.1	-	-	13	7.2	20	11.0
Santa Cruz	5	2	40.0	-	-	-	-	3	60.0	-	-
Shasta	4	3	75.0	1	25.0	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-
Solano	13	9	69.2	2	15.4	-	-	1	7.7	1	7.7
Sonoma	8	5	62.5	2	25.0	-	-	1	12.5	-	-
Stanislaus	10	8	80.0	-	-	-	-	2	20.0	-	-
Sutter	4	4	100.0	-	-	-	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-
Tulare	16	9	56.3	1	6.3	-	-	6	37.5	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-
Ventura	27	21	77.8	-	-	-	-	3	11.1	3	11.1
Yolo	6	3	50.0	3	50.0	-	-	-	-	-	-
Yuba	5	4	80.0	-	-	-	-	-	-	1	20.0

- Indicates zero cases or zero percent

\* See Technical Notes for description of verification criteria of TB.

\*\* NAAT=Nucleic Acid Amplification Test

**Table 25.Tuberculosis Cases by Sputum Smear Status: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Pulmonary Cases	Sputum Smear Results							
		Smear Positive		Smear Negative		Smear Not Done		Unknown	
		No.	%	No.	%	No.	%	No.	%
<b>California</b>	<b>1,725</b>	<b>914</b>	<b>53.0</b>	<b>698</b>	<b>40.5</b>	<b>111</b>	<b>6.4</b>	<b>2</b>	<b>0.1</b>
Alameda	83	48	57.8	34	41.0	1	1.2	-	-
Alpine	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-
Berkeley	5	3	60.0	2	40.0	-	-	-	-
Butte	4	1	25.0	3	75.0	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-
Contra Costa	36	14	38.9	17	47.2	5	13.9	-	-
Del Norte	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	1	100.0	-	-	-	-
Fresno	35	20	57.1	12	34.3	3	8.6	-	-
Glenn	1	1	100.0	-	-	-	-	-	-
Humboldt	2	2	100.0	-	-	-	-	-	-
Imperial	32	22	68.8	7	21.9	3	9.4	-	-
Inyo	-	-	-	-	-	-	-	-	-
Kern	24	18	75.0	6	25.0	-	-	-	-
Kings	5	2	40.0	2	40.0	1	20.0	-	-
Lake	2	1	50.0	1	50.0	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-
Long Beach	25	12	48.0	11	44.0	2	8.0	-	-
Los Angeles	536	294	54.9	204	38.1	38	7.1	-	-
Madera	5	4	80.0	-	-	1	20.0	-	-
Marin	11	2	18.2	9	81.8	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-
Mendocino	1	1	100.0	-	-	-	-	-	-
Merced	12	7	58.3	2	16.7	3	25.0	-	-
Modoc	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-
Monterey	13	8	61.5	4	30.8	1	7.7	-	-
Napa	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
Orange	136	84	61.8	47	34.6	5	3.7	-	-
Pasadena	4	2	50.0	2	50.0	-	-	-	-
Placer	1	1	100.0	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-
Riverside	49	22	44.9	25	51.0	2	4.1	-	-
Sacramento	73	44	60.3	27	37.0	2	2.7	-	-
San Benito	1	-	-	1	100.0	-	-	-	-
San Bernardino	44	28	63.6	13	29.5	3	6.8	-	-
San Diego	176	83	47.2	82	46.6	11	6.3	-	-
San Francisco	79	35	44.3	43	54.4	1	1.3	-	-
San Joaquin	37	10	27.0	20	54.1	7	18.9	-	-
San Luis Obispo	4	3	75.0	1	25.0	-	-	-	-
San Mateo	47	22	46.8	22	46.8	3	6.4	-	-
Santa Barbara	22	16	72.7	4	18.2	2	9.1	-	-
Santa Clara	132	62	47.0	66	50.0	4	3.0	-	-
Santa Cruz	5	1	20.0	3	60.0	1	20.0	-	-
Shasta	3	3	100.0	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-
Solano	12	5	41.7	7	58.3	-	-	-	-
Sonoma	5	2	40.0	3	60.0	-	-	-	-
Stanislaus	8	5	62.5	-	-	3	37.5	-	-
Sutter	4	2	50.0	-	-	2	50.0	-	-
Tehama	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-
Tulare	16	4	25.0	6	37.5	4	25.0	2	12.5
Tuolumne	-	-	-	-	-	-	-	-	-
Ventura	24	13	54.2	9	37.5	2	8.3	-	-
Yolo	5	3	60.0	2	40.0	-	-	-	-
Yuba	5	4	80.0	-	-	1	20.0	-	-

- Indicates zero cases or zero percent

**Table 26. Nucleic Acid Amplification Test (NAAT) Results at the Time of Diagnosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	NAAT		Positive Test Results	
		No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>1,140</b>	<b>52.6</b>	<b>899</b>	<b>78.9</b>
Alameda	114	56	49.1	49	87.5
Alpine	-	-	-	-	-
Amador	-	-	-	-	-
Berkeley	5	4	80.0	4	100.0
Butte	4	3	75.0	2	66.7
Calaveras	-	-	-	-	-
Colusa	-	-	-	-	-
Contra Costa	57	42	73.7	26	61.9
Del Norte	-	-	-	-	-
El Dorado	1	-	-	-	-
Fresno	39	16	41.0	16	100.0
Glenn	1	-	-	-	-
Humboldt	2	2	100.0	2	100.0
Imperial	38	29	76.3	16	55.2
Inyo	-	-	-	-	-
Kern	28	7	25.0	6	85.7
Kings	6	3	50.0	3	100.0
Lake	2	1	50.0	1	100.0
Lassen	-	-	-	-	-
Long Beach	38	8	21.1	8	100.0
Los Angeles	666	324	48.6	259	79.9
Madera	5	2	40.0	2	100.0
Marin	13	8	61.5	6	75.0
Mariposa	-	-	-	-	-
Mendocino	1	1	100.0	1	100.0
Merced	12	2	16.7	2	100.0
Modoc	-	-	-	-	-
Mono	-	-	-	-	-
Monterey	17	15	88.2	13	86.7
Napa	3	-	-	-	-
Nevada	-	-	-	-	-
Orange	187	128	68.4	89	69.5
Pasadena	5	1	20.0	1	100.0
Placer	6	4	66.7	4	100.0
Plumas	-	-	-	-	-
Riverside	54	21	38.9	20	95.2
Sacramento	84	62	73.8	57	91.9
San Benito	1	1	100.0	-	-
San Bernardino	57	37	64.9	34	91.9
San Diego	206	144	69.9	119	82.6
San Francisco	107	70	65.4	40	57.1
San Joaquin	43	10	23.3	6	60.0
San Luis Obispo	4	4	100.0	3	75.0
San Mateo	58	34	58.6	29	85.3
Santa Barbara	26	19	73.1	16	84.2
Santa Clara	181	32	17.7	23	71.9
Santa Cruz	5	4	80.0	1	25.0
Shasta	4	4	100.0	4	100.0
Sierra	-	-	-	-	-
Siskiyou	-	-	-	-	-
Solano	13	11	84.6	9	81.8
Sonoma	8	4	50.0	4	100.0
Stanislaus	10	1	10.0	1	100.0
Sutter	4	4	100.0	4	100.0
Tehama	-	-	-	-	-
Trinity	-	-	-	-	-
Tulare	16	9	56.3	6	66.7
Tuolumne	-	-	-	-	-
Ventura	27	3	11.1	3	100.0
Yolo	6	6	100.0	6	100.0
Yuba	5	4	80.0	4	100.0

- Indicates zero cases or zero percent

**Table 27. Tuberculosis Cases by Chest X-ray (CXR) Status: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total		Abnormal CXR, Consistent with TB							
	Pulmonary Cases	CXR Done	Normal CXR		Total Abnormal		Cavitory		Miliary	
			No.	%	No.	%	No.	%	No.	%
<b>California</b>	<b>1,725</b>	<b>1,695</b>	<b>54</b>	<b>3.2</b>	<b>1,641</b>	<b>96.8</b>	<b>372</b>	<b>22.7</b>	<b>40</b>	<b>2.4</b>
Alameda	83	83	1	1.2	82	98.8	19	23.2	3	3.7
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	5	5	-	-	5	100.0	-	-	-	-
Butte	4	4	-	-	4	100.0	1	25.0	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	36	34	2	5.9	32	94.1	8	25.0	3	9.4
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	-	-	-	-	-	-	-
Fresno	35	34	2	5.9	32	94.1	10	31.3	4	12.5
Glenn	1	1	-	-	1	100.0	1	100.0	-	-
Humboldt	2	2	-	-	2	100.0	1	50.0	-	-
Imperial	32	32	2	6.3	30	93.8	5	16.7	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	24	24	1	4.2	23	95.8	9	39.1	-	-
Kings	5	5	-	-	5	100.0	2	40.0	-	-
Lake	2	2	-	-	2	100.0	1	50.0	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	25	25	-	-	25	100.0	7	28.0	-	-
Los Angeles	536	532	15	2.8	517	97.2	120	23.2	12	2.3
Madera	5	5	-	-	5	100.0	4	80.0	-	-
Marin	11	10	-	-	10	100.0	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	1	100.0	1	100.0	-	-
Merced	12	11	-	-	11	100.0	4	36.4	1	9.1
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	-	-	13	100.0	5	38.5	-	-
Napa	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	136	136	3	2.2	133	97.8	20	15.0	2	1.5
Pasadena	4	4	-	-	4	100.0	3	75.0	-	-
Placer	1	1	-	-	1	100.0	1	100.0	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	49	49	3	6.1	46	93.9	11	23.9	-	-
Sacramento	73	73	-	-	73	100.0	20	27.4	-	-
San Benito	1	1	-	-	1	100.0	1	100.0	-	-
San Bernardino	44	44	3	6.8	41	93.2	12	29.3	-	-
San Diego	176	171	7	4.1	164	95.9	21	12.8	5	3.0
San Francisco	79	79	-	-	79	100.0	16	20.3	1	1.3
San Joaquin	37	36	2	5.6	34	94.4	9	26.5	2	5.9
San Luis Obispo	4	3	-	-	3	100.0	2	66.7	-	-
San Mateo	47	47	2	4.3	45	95.7	10	22.2	-	-
Santa Barbara	22	22	3	13.6	19	86.4	6	31.6	1	5.3
Santa Clara	132	121	7	5.8	114	94.2	15	13.2	3	2.6
Santa Cruz	5	5	-	-	5	100.0	-	-	-	-
Shasta	3	3	-	-	3	100.0	1	33.3	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	12	12	-	-	12	100.0	5	41.7	1	8.3
Sonoma	5	4	-	-	4	100.0	1	25.0	-	-
Stanislaus	8	8	-	-	8	100.0	2	25.0	-	-
Sutter	4	4	-	-	4	100.0	1	25.0	-	-
Tehama	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	16	16	-	-	16	100.0	6	37.5	1	6.3
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	24	23	-	-	23	100.0	8	34.8	-	-
Yolo	5	5	-	-	5	100.0	-	-	-	-
Yuba	5	5	1	20.0	4	80.0	3	75.0	1	25.0

- Indicates zero cases or zero percent

**Table 28. Tuberculosis Cases by Chest CT Scan or Other Chest Imaging Study:  
Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total	CT	Abnormal CT Scan, Consistent with TB							
	Pulmonary Cases	Scan Done	Normal CT Scan No.	Normal CT Scan %	Total Abnormal No.	Total Abnormal %	Cavitory No.	Cavitory %	Miliary No.	Miliary %
<b>California</b>	<b>1,725</b>	<b>1,034</b>	<b>1</b>	<b>0.1</b>	<b>1,033</b>	<b>99.9</b>	<b>397</b>	<b>38.4</b>	<b>51</b>	<b>4.9</b>
Alameda	83	59	-	-	59	100.0	23	39.0	2	3.4
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	5	4	-	-	4	100.0	-	-	-	-
Butte	4	3	-	-	3	100.0	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	36	21	-	-	21	100.0	8	38.1	2	9.5
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	-	-	1	100.0	-	-	-	-
Fresno	35	28	-	-	28	100.0	10	35.7	5	17.9
Glenn	1	1	-	-	1	100.0	1	100.0	-	-
Humboldt	2	1	-	-	1	100.0	1	100.0	-	-
Imperial	32	15	-	-	15	100.0	5	33.3	2	13.3
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	24	20	-	-	20	100.0	16	80.0	1	5.0
Kings	5	5	-	-	5	100.0	2	40.0	-	-
Lake	2	2	-	-	2	100.0	1	50.0	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	25	9	-	-	9	100.0	5	55.6	-	-
Los Angeles	536	303	-	-	303	100.0	116	38.3	15	5.0
Madera	5	-	-	-	-	-	-	-	-	-
Marin	11	8	-	-	8	100.0	4	50.0	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	-	-	-	-	-	-	-	-	-
Merced	12	7	-	-	7	100.0	5	71.4	1	14.3
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	8	-	-	8	100.0	4	50.0	-	-
Napa	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	136	76	1	1.3	75	98.7	24	32.0	1	1.3
Pasadena	4	1	-	-	1	100.0	1	100.0	-	-
Placer	1	1	-	-	1	100.0	1	100.0	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	49	31	-	-	31	100.0	14	45.2	2	6.5
Sacramento	73	49	-	-	49	100.0	15	30.6	-	-
San Benito	1	1	-	-	1	100.0	1	100.0	-	-
San Bernardino	44	25	-	-	25	100.0	12	48.0	1	4.0
San Diego	176	102	-	-	102	100.0	36	35.3	11	10.8
San Francisco	79	52	-	-	52	100.0	14	26.9	1	1.9
San Joaquin	37	26	-	-	26	100.0	9	34.6	-	-
San Luis Obispo	4	3	-	-	3	100.0	3	100.0	-	-
San Mateo	47	28	-	-	28	100.0	11	39.3	1	3.6
Santa Barbara	22	12	-	-	12	100.0	5	41.7	2	16.7
Santa Clara	132	81	-	-	81	100.0	26	32.1	2	2.5
Santa Cruz	5	5	-	-	5	100.0	3	60.0	-	-
Shasta	3	3	-	-	3	100.0	1	33.3	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	12	4	-	-	4	100.0	2	50.0	1	25.0
Sonoma	5	3	-	-	3	100.0	2	66.7	-	-
Stanislaus	8	4	-	-	4	100.0	2	50.0	-	-
Sutter	4	4	-	-	4	100.0	1	25.0	-	-
Tehama	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	16	9	-	-	9	100.0	5	55.6	1	11.1
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	24	10	-	-	10	100.0	5	50.0	-	-
Yolo	5	5	-	-	5	100.0	-	-	-	-
Yuba	5	4	-	-	4	100.0	3	75.0	-	-

- Indicates zero cases or zero percent

**Table 29. Interferon Gamma Release Assay (IGRA) and Tuberculin Skin Test (TST)  
at Diagnosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	IGRA				TST			
		Test Done		Positive Result		Test Done		Positive Result	
		No.	%	No.	%	No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>1,099</b>	<b>50.7</b>	<b>891</b>	<b>81.1</b>	<b>901</b>	<b>41.5</b>	<b>718</b>	<b>79.7</b>
Alameda	114	59	51.8	49	83.1	49	43.0	43	87.8
Alpine	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-
Berkeley	5	4	80.0	3	75.0	2	40.0	2	100.0
Butte	4	4	100.0	4	100.0	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-
Contra Costa	57	42	73.7	36	85.7	22	38.6	22	100.0
Del Norte	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	-	-	1	100.0	1	100.0
Fresno	39	21	53.8	19	90.5	9	23.1	8	88.9
Glenn	1	-	-	-	-	-	-	-	-
Humboldt	2	2	100.0	1	50.0	1	50.0	-	-
Imperial	38	33	86.8	31	93.9	7	18.4	7	100.0
Inyo	-	-	-	-	-	-	-	-	-
Kern	28	11	39.3	8	72.7	19	67.9	14	73.7
Kings	6	3	50.0	3	100.0	5	83.3	3	60.0
Lake	2	-	-	-	-	2	100.0	2	100.0
Lassen	-	-	-	-	-	-	-	-	-
Long Beach	38	11	28.9	11	100.0	19	50.0	14	73.7
Los Angeles	666	303	45.5	238	78.5	342	51.4	269	78.7
Madera	5	1	20.0	1	100.0	3	60.0	3	100.0
Marin	13	5	38.5	2	40.0	2	15.4	1	50.0
Mariposa	-	-	-	-	-	-	-	-	-
Mendocino	1	-	-	-	-	1	100.0	1	100.0
Merced	12	2	16.7	1	50.0	6	50.0	6	100.0
Modoc	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-
Monterey	17	14	82.4	11	78.6	6	35.3	5	83.3
Napa	3	2	66.7	2	100.0	1	33.3	1	100.0
Nevada	-	-	-	-	-	-	-	-	-
Orange	187	65	34.8	58	89.2	95	50.8	70	73.7
Pasadena	5	3	60.0	3	100.0	1	20.0	-	-
Placer	6	1	16.7	1	100.0	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-
Riverside	54	18	33.3	17	94.4	15	27.8	12	80.0
Sacramento	84	53	63.1	42	79.2	21	25.0	17	81.0
San Benito	1	1	100.0	1	100.0	1	100.0	1	100.0
San Bernardino	57	22	38.6	17	77.3	25	43.9	14	56.0
San Diego	206	114	55.3	91	79.8	65	31.6	58	89.2
San Francisco	107	90	84.1	73	81.1	55	51.4	46	83.6
San Joaquin	43	17	39.5	14	82.4	27	62.8	22	81.5
San Luis Obispo	4	3	75.0	1	33.3	2	50.0	-	-
San Mateo	58	41	70.7	34	82.9	9	15.5	9	100.0
Santa Barbara	26	20	76.9	13	65.0	10	38.5	6	60.0
Santa Clara	181	83	45.9	71	85.5	31	17.1	26	83.9
Santa Cruz	5	4	80.0	3	75.0	3	60.0	3	100.0
Shasta	4	3	75.0	1	33.3	2	50.0	1	50.0
Sierra	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-
Solano	13	4	30.8	3	75.0	5	38.5	5	100.0
Sonoma	8	4	50.0	4	100.0	1	12.5	1	100.0
Stanislaus	10	1	10.0	1	100.0	9	90.0	7	77.8
Sutter	4	1	25.0	1	100.0	3	75.0	2	66.7
Tehama	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-
Tulare	16	7	43.8	6	85.7	14	87.5	9	64.3
Tuolumne	-	-	-	-	-	-	-	-	-
Ventura	27	24	88.9	13	54.2	8	29.6	6	75.0
Yolo	6	2	33.3	2	100.0	1	16.7	-	-
Yuba	5	1	20.0	1	100.0	1	20.0	1	100.0

- Indicates zero cases or zero percent

**Table 30. Tuberculosis Cases by Vital Status at Diagnosis and Initiation of Treatment: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Dead at Diagnosis		Alive at Diagnosis		Alive and Started Treatment	
		No.	%	No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>46</b>	<b>2.1</b>	<b>2,123</b>	<b>97.9</b>	<b>2,102</b>	<b>96.9</b>
Alameda	114	1	0.9	113	99.1	109	95.6
Alpine	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-
Berkeley	5	-	-	5	100.0	5	100.0
Butte	4	-	-	4	100.0	4	100.0
Calaveras	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-
Contra Costa	57	-	-	57	100.0	57	100.0
Del Norte	-	-	-	-	-	-	-
El Dorado	1	-	-	1	100.0	1	100.0
Fresno	39	-	-	39	100.0	39	100.0
Glenn	1	-	-	1	100.0	1	100.0
Humboldt	2	-	-	2	100.0	2	100.0
Imperial	38	1	2.6	37	97.4	35	92.1
Inyo	-	-	-	-	-	-	-
Kern	28	-	-	28	100.0	28	100.0
Kings	6	-	-	6	100.0	6	100.0
Lake	2	-	-	2	100.0	2	100.0
Lassen	-	-	-	-	-	-	-
Long Beach	38	3	7.9	35	92.1	35	92.1
Los Angeles	666	20	3.0	646	97.0	641	96.2
Madera	5	1	20.0	4	80.0	4	80.0
Marin	13	-	-	13	100.0	13	100.0
Mariposa	-	-	-	-	-	-	-
Mendocino	1	-	-	1	100.0	1	100.0
Merced	12	-	-	12	100.0	12	100.0
Modoc	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-
Monterey	17	-	-	17	100.0	17	100.0
Napa	3	-	-	3	100.0	3	100.0
Nevada	-	-	-	-	-	-	-
Orange	187	1	0.5	186	99.5	184	98.4
Pasadena	5	-	-	5	100.0	5	100.0
Placer	6	-	-	6	100.0	6	100.0
Plumas	-	-	-	-	-	-	-
Riverside	54	1	1.9	53	98.1	51	94.4
Sacramento	84	4	4.8	80	95.2	80	95.2
San Benito	1	-	-	1	100.0	1	100.0
San Bernardino	57	-	-	57	100.0	57	100.0
San Diego	206	3	1.5	203	98.5	203	98.5
San Francisco	107	1	0.9	106	99.1	106	99.1
San Joaquin	43	3	7.0	40	93.0	39	90.7
San Luis Obispo	4	-	-	4	100.0	4	100.0
San Mateo	58	-	-	58	100.0	58	100.0
Santa Barbara	26	-	-	26	100.0	25	96.2
Santa Clara	181	5	2.8	176	97.2	175	96.7
Santa Cruz	5	-	-	5	100.0	5	100.0
Shasta	4	1	25.0	3	75.0	3	75.0
Sierra	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-
Solano	13	-	-	13	100.0	13	100.0
Sonoma	8	-	-	8	100.0	7	87.5
Stanislaus	10	-	-	10	100.0	10	100.0
Sutter	4	-	-	4	100.0	3	75.0
Tehama	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-
Tulare	16	-	-	16	100.0	16	100.0
Tuolumne	-	-	-	-	-	-	-
Ventura	27	1	3.7	26	96.3	25	92.6
Yolo	6	-	-	6	100.0	6	100.0
Yuba	5	-	-	5	100.0	5	100.0

- Indicates zero cases or zero percent

**Table 31. Deaths in Persons with Tuberculosis: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Total Cases	Timing of Death									
		Total Deaths		Dead at Diagnosis		Died Before Starting TB Treatment		Died During TB Treatment			
		No.	%	No.	%	No.	%	No.	%	No.	%
California	2,323	221	9.5	47	2.0	3	0.1	171	7.4		
Alameda	132	13	9.8	4	3.0	-	-	9	6.8		
Alpine	-	-	-	-	-	-	-	-	-		
Amador	-	-	-	-	-	-	-	-	-		
Berkeley	1	-	-	-	-	-	-	-	-		
Butte	-	-	-	-	-	-	-	-	-		
Calaveras	1	-	-	-	-	-	-	-	-		
Colusa	-	-	-	-	-	-	-	-	-		
Contra Costa	60	2	3.3	-	-	-	-	2	3.3		
Del Norte	-	-	-	-	-	-	-	-	-		
El Dorado	3	-	-	-	-	-	-	-	-		
Fresno	46	6	13.0	3	6.5	-	-	3	6.5		
Glenn	-	-	-	-	-	-	-	-	-		
Humboldt	1	-	-	-	-	-	-	-	-		
Imperial	27	2	7.4	1	3.7	-	-	1	3.7		
Inyo	-	-	-	-	-	-	-	-	-		
Kern	40	3	7.5	-	-	-	-	3	7.5		
Kings	6	-	-	-	-	-	-	-	-		
Lake	1	-	-	-	-	-	-	-	-		
Lassen	-	-	-	-	-	-	-	-	-		
Long Beach	29	4	13.8	2	6.9	-	-	2	6.9		
Los Angeles	680	77	11.3	10	1.5	1	0.1	66	9.7		
Madera	12	1	8.3	-	-	-	-	1	8.3		
Marin	12	1	8.3	1	8.3	-	-	-	-		
Mariposa	-	-	-	-	-	-	-	-	-		
Mendocino	2	-	-	-	-	-	-	-	-		
Merced	6	-	-	-	-	-	-	-	-		
Modoc	-	-	-	-	-	-	-	-	-		
Mono	-	-	-	-	-	-	-	-	-		
Monterey	25	3	12.0	-	-	-	-	3	12.0		
Napa	6	-	-	-	-	-	-	-	-		
Nevada	1	-	-	-	-	-	-	-	-		
Orange	209	24	11.5	4	1.9	-	-	20	9.6		
Pasadena	5	-	-	-	-	-	-	-	-		
Placer	6	2	33.3	1	16.7	-	-	1	16.7		
Plumas	-	-	-	-	-	-	-	-	-		
Riverside	68	7	10.3	3	4.4	-	-	4	5.9		
Sacramento	75	9	12.0	2	2.7	-	-	7	9.3		
San Benito	3	-	-	-	-	-	-	-	-		
San Bernardino	53	6	11.3	1	1.9	-	-	5	9.4		
San Diego	263	21	8.0	4	1.5	-	-	17	6.5		
San Francisco	108	8	7.4	2	1.9	-	-	6	5.6		
San Joaquin	44	6	13.6	3	6.8	-	-	3	6.8		
San Luis Obispo	6	-	-	-	-	-	-	-	-		
San Mateo	59	8	13.6	-	-	1	1.7	7	11.9		
Santa Barbara	21	1	4.8	-	-	-	-	1	4.8		
Santa Clara	180	8	4.4	3	1.7	-	-	5	2.8		
Santa Cruz	10	-	-	-	-	-	-	-	-		
Shasta	-	-	-	-	-	-	-	-	-		
Sierra	-	-	-	-	-	-	-	-	-		
Siskiyou	-	-	-	-	-	-	-	-	-		
Solano	34	3	8.8	1	2.9	1	2.9	1	2.9		
Sonoma	13	1	7.7	1	7.7	-	-	-	-		
Stanislaus	9	-	-	-	-	-	-	-	-		
Sutter	6	2	33.3	-	-	-	-	2	33.3		
Tehama	1	-	-	-	-	-	-	-	-		
Trinity	-	-	-	-	-	-	-	-	-		
Tulare	20	3	15.0	1	5.0	-	-	2	10.0		
Tuolumne	-	-	-	-	-	-	-	-	-		
Ventura	35	-	-	-	-	-	-	-	-		
Yolo	3	-	-	-	-	-	-	-	-		
Yuba	1	-	-	-	-	-	-	-	-		

- Indicates zero cases or zero percent

**Table 32. Tuberculosis Cases by Initial Drug Regimen: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Cases Alive at Diagnosis	Cases Started on Initial Drug Regimen		Initial Drug Regimen* (%)				
		No.	%	IR	IRZ	IRE	IRZ,E/S	Other
<b>California</b>	<b>2,123</b>	<b>2,102</b>	<b>99.0</b>	<b>0.2</b>	<b>1.2</b>	<b>1.6</b>	<b>90.8</b>	<b>6.2</b>
Alameda	113	109	96.5	-	1.8	0.9	86.2	11.0
Alpine	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-
Berkeley	5	5	100.0	-	-	-	100.0	-
Butte	4	4	100.0	-	-	-	100.0	-
Calaveras	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-
Contra Costa	57	57	100.0	-	5.3	1.8	87.7	5.3
Del Norte	-	-	-	-	-	-	-	-
El Dorado	1	1	100.0	-	-	-	100.0	-
Fresno	39	39	100.0	-	2.6	-	87.2	10.3
Glenn	1	1	100.0	-	-	-	100.0	-
Humboldt	2	2	100.0	-	-	-	100.0	-
Imperial	37	35	94.6	2.9	-	-	91.4	5.7
Inyo	-	-	-	-	-	-	-	-
Kern	28	28	100.0	-	-	-	96.4	3.6
Kings	6	6	100.0	-	16.7	-	66.7	16.7
Lake	2	2	100.0	-	-	-	100.0	-
Lassen	-	-	-	-	-	-	-	-
Long Beach	35	35	100.0	-	-	2.9	94.3	2.9
Los Angeles	646	641	99.2	0.2	0.9	2.0	92.0	4.8
Madera	4	4	100.0	-	-	-	100.0	-
Marin	13	13	100.0	-	-	7.7	76.9	15.4
Mariposa	-	-	-	-	-	-	-	-
Mendocino	1	1	100.0	-	-	-	100.0	-
Merced	12	12	100.0	-	8.3	-	75.0	16.7
Modoc	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-
Monterey	17	17	100.0	-	5.9	-	94.1	-
Napa	3	3	100.0	-	-	-	100.0	-
Nevada	-	-	-	-	-	-	-	-
Orange	186	184	98.9	-	1.1	3.3	87.5	8.2
Pasadena	5	5	100.0	-	-	-	100.0	-
Placer	6	6	100.0	-	-	-	100.0	-
Plumas	-	-	-	-	-	-	-	-
Riverside	53	51	96.2	-	5.9	-	92.2	2.0
Sacramento	80	80	100.0	-	-	-	93.8	6.3
San Benito	1	1	100.0	-	-	-	-	100.0
San Bernardino	57	57	100.0	-	-	-	98.2	1.8
San Diego	203	203	100.0	0.5	0.5	2.5	90.6	5.9
San Francisco	106	106	100.0	-	-	1.9	88.7	9.4
San Joaquin	40	39	97.5	2.6	-	2.6	89.7	5.1
San Luis Obispo	4	4	100.0	-	-	-	100.0	-
San Mateo	58	58	100.0	-	1.7	3.4	93.1	1.7
Santa Barbara	26	25	96.2	-	4.0	4.0	80.0	12.0
Santa Clara	176	175	99.4	0.6	-	-	94.3	5.1
Santa Cruz	5	5	100.0	-	-	-	80.0	20.0
Shasta	3	3	100.0	-	-	-	66.7	33.3
Sierra	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-
Solano	13	13	100.0	-	-	-	100.0	-
Sonoma	8	7	87.5	-	-	-	42.9	57.1
Stanislaus	10	10	100.0	-	10.0	-	90.0	-
Sutter	4	3	75.0	-	-	-	100.0	-
Tehama	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-
Tulare	16	16	100.0	-	6.3	-	87.5	6.3
Tuolumne	-	-	-	-	-	-	-	-
Ventura	26	25	96.2	-	-	-	88.0	12.0
Yolo	6	6	100.0	-	-	-	100.0	-
Yuba	5	5	100.0	-	-	-	80.0	20.0

- Indicates zero cases or zero percent

\* I=isoniazid; R=rifampin; Z=pyrazinamide; E=ethambutol; E/S=ethambutol and/or streptomycin; Other=all other combinations

**Table 33. Tuberculosis Cases by Type of Health Care Provider: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Total Cases	Cases w/ Initial Drug Regimen Prescribed	Cases w/ Information on Type of Health Care Provider		Type of Health Care Provider					
			No.	%	Health Department Only		Private/Other Only		Both Health Dept. and Private/Other	
<b>California</b>	<b>2,323</b>	<b>2,261</b>	<b>2,248</b>	<b>99.4</b>	<b>1,211</b>	<b>53.9</b>	<b>834</b>	<b>37.1</b>	<b>203</b>	<b>9.0</b>
Alameda	132	127	127	100.0	-	-	126	99.2	1	0.8
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	1	1	1	100.0	1	100.0	-	-	-	-
Butte	-	-	-	-	-	-	-	-	-	-
Calaveras	1	1	1	100.0	-	-	1	100.0	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	60	60	60	100.0	27	45.0	30	50.0	3	5.0
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	3	3	3	100.0	1	33.3	-	-	2	66.7
Fresno	46	43	43	100.0	37	86.0	3	7.0	3	7.0
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	1	100.0	-	-	1	100.0	-	-
Imperial	27	26	26	100.0	15	57.7	9	34.6	2	7.7
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	40	40	40	100.0	7	17.5	29	72.5	4	10.0
Kings	6	6	6	100.0	5	83.3	1	16.7	-	-
Lake	1	1	1	100.0	-	-	1	100.0	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	29	26	26	100.0	20	76.9	5	19.2	1	3.8
Los Angeles	680	665	657	98.8	466	70.9	134	20.4	57	8.7
Madera	12	12	12	100.0	10	83.3	1	8.3	1	8.3
Marin	12	11	11	100.0	8	72.7	3	27.3	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	2	2	2	100.0	2	100.0	-	-	-	-
Merced	6	6	6	100.0	-	-	3	50.0	3	50.0
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	25	25	25	100.0	18	72.0	3	12.0	4	16.0
Napa	6	6	6	100.0	1	16.7	2	33.3	3	50.0
Nevada	1	1	1	100.0	-	-	1	100.0	-	-
Orange	209	202	202	100.0	155	76.7	39	19.3	8	4.0
Pasadena	5	5	5	100.0	5	100.0	-	-	-	-
Placer	6	5	5	100.0	2	40.0	3	60.0	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	68	65	65	100.0	30	46.2	7	10.8	28	43.1
Sacramento	75	73	73	100.0	44	60.3	18	24.7	11	15.1
San Benito	3	3	3	100.0	1	33.3	2	66.7	-	-
San Bernardino	53	52	52	100.0	27	51.9	25	48.1	-	-
San Diego	263	259	259	100.0	32	12.4	189	73.0	38	14.7
San Francisco	108	106	105	99.1	99	94.3	6	5.7	-	-
San Joaquin	44	41	40	97.6	-	-	40	100.0	-	-
San Luis Obispo	6	6	6	100.0	3	50.0	3	50.0	-	-
San Mateo	59	58	58	100.0	20	34.5	35	60.3	3	5.2
Santa Barbara	21	21	21	100.0	20	95.2	1	4.8	-	-
Santa Clara	180	176	174	98.9	82	47.1	78	44.8	14	8.0
Santa Cruz	10	10	10	100.0	5	50.0	5	50.0	-	-
Shasta	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	34	32	32	100.0	14	43.8	13	40.6	5	15.6
Sonoma	13	11	10	90.9	6	60.0	1	10.0	3	30.0
Stanislaus	9	8	8	100.0	6	75.0	-	-	2	25.0
Sutter	6	6	6	100.0	-	-	6	100.0	-	-
Tehama	1	1	1	100.0	1	100.0	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	20	19	19	100.0	15	78.9	1	5.3	3	15.8
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	35	35	35	100.0	26	74.3	7	20.0	2	5.7
Yolo	3	3	3	100.0	-	-	2	66.7	1	33.3
Yuba	1	1	1	100.0	-	-	-	-	1	100.0

- Indicates zero cases or zero percent

California Department of Public Health, Tuberculosis Control Branch

**Table 34. Tuberculosis Cases by Type of Therapy Administration: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Total Cases	Cases w/ Initial Drug Regimen Prescribed	Cases w/ Information on Type of Therapy Administration		Type of Therapy Administration*					
			No.	%	SAT Only		DOT Only		DOT and SAT	
<b>California</b>	<b>2,323</b>	<b>2,261</b>	<b>2,240</b>	<b>99.1</b>	<b>266</b>	<b>11.9</b>	<b>1,115</b>	<b>49.8</b>	<b>859</b>	<b>38.3</b>
Alameda	132	127	126	99.2	56	44.4	55	43.7	15	11.9
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	1	1	1	100.0	-	-	-	-	1	100.0
Butte	-	-	-	-	-	-	-	-	-	-
Calaveras	1	1	1	100.0	1	100.0	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	60	60	60	100.0	21	35.0	26	43.3	13	21.7
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	3	3	3	100.0	-	-	3	100.0	-	-
Fresno	46	43	43	100.0	3	7.0	22	51.2	18	41.9
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	1	100.0	-	-	-	-	1	100.0
Imperial	27	26	24	92.3	1	4.2	14	58.3	9	37.5
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	40	40	39	97.5	3	7.7	26	66.7	10	25.6
Kings	6	6	6	100.0	-	-	2	33.3	4	66.7
Lake	1	1	1	100.0	-	-	-	-	1	100.0
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	29	26	26	100.0	4	15.4	19	73.1	3	11.5
Los Angeles	680	665	657	98.8	75	11.4	407	61.9	175	26.6
Madera	12	12	11	91.7	-	-	-	-	11	100.0
Marin	12	11	10	90.9	-	-	4	40.0	6	60.0
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	2	2	2	100.0	-	-	-	-	2	100.0
Merced	6	6	6	100.0	3	50.0	-	-	3	50.0
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	25	25	24	96.0	-	-	12	50.0	12	50.0
Napa	6	6	6	100.0	-	-	-	-	6	100.0
Nevada	1	1	1	100.0	-	-	1	100.0	-	-
Orange	209	202	202	100.0	4	2.0	159	78.7	39	19.3
Pasadena	5	5	5	100.0	1	20.0	1	20.0	3	60.0
Placer	6	5	5	100.0	2	40.0	1	20.0	2	40.0
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	68	65	65	100.0	10	15.4	12	18.5	43	66.2
Sacramento	75	73	72	98.6	-	-	61	84.7	11	15.3
San Benito	3	3	3	100.0	-	-	-	-	3	100.0
San Bernardino	53	52	52	100.0	12	23.1	17	32.7	23	44.2
San Diego	263	259	259	100.0	7	2.7	38	14.7	214	82.6
San Francisco	108	106	106	100.0	7	6.6	84	79.2	15	14.2
San Joaquin	44	41	40	97.6	2	5.0	4	10.0	34	85.0
San Luis Obispo	6	6	6	100.0	-	-	2	33.3	4	66.7
San Mateo	59	58	58	100.0	9	15.5	22	37.9	27	46.6
Santa Barbara	21	21	21	100.0	-	-	19	90.5	2	9.5
Santa Clara	180	176	173	98.3	33	19.1	73	42.2	67	38.7
Santa Cruz	10	10	10	100.0	5	50.0	1	10.0	4	40.0
Shasta	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	34	32	32	100.0	3	9.4	7	21.9	22	68.8
Sonoma	13	11	10	90.9	1	10.0	6	60.0	3	30.0
Stanislaus	9	8	8	100.0	1	12.5	1	12.5	6	75.0
Sutter	6	6	6	100.0	-	-	3	50.0	3	50.0
Tehama	1	1	1	100.0	-	-	1	100.0	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	20	19	19	100.0	-	-	2	10.5	17	89.5
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	35	35	35	100.0	2	5.7	7	20.0	26	74.3
Yolo	3	3	3	100.0	-	-	2	66.7	1	33.3
Yuba	1	1	1	100.0	-	-	1	100.0	-	-

- Indicates zero cases or zero percent

\* SAT=self-administered therapy; DOT=directly observed therapy

**Table 35. Tuberculosis Cases by HIV/AIDS Diagnosis (Dx):\* Reporting Jurisdictions in California, 2006-2012**

	2006			2007			2008			2009			2010			2011			2012		
	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %	Total Cases	AIDS Dx No.	AIDS Dx %
<b>California</b>	<b>2,776</b>	<b>153</b>	<b>5.5</b>	<b>2,725</b>	<b>143</b>	<b>5.2</b>	<b>2,699</b>	<b>136</b>	<b>5.0</b>	<b>2,467</b>	<b>110</b>	<b>4.5</b>	<b>2,325</b>	<b>101</b>	<b>4.3</b>	<b>2,323</b>	<b>97</b>	<b>4.2</b>	<b>2,189</b>	<b>83</b>	<b>3.8</b>
Alameda	141	4	2.8	149	14	9.4	134	8	6.0	156	3	1.9	178	10	5.6	132	4	3.0	136	7	5.1
Contra Costa	50	-	-	51	-	-	79	1	1.3	47	2	4.3	33	1	3.0	60	2	3.3	55	3	5.5
Fresno	62	3	4.8	41	1	2.4	75	3	4.0	66	3	4.5	55	1	1.8	46	1	2.2	34	3	8.8
Imperial	33	2	6.1	29	1	3.4	21	1	4.8	36	1	2.8	24	3	12.5	27	3	11.1	30	2	6.7
Kern	41	1	2.4	38	2	5.3	50	3	6.0	41	3	7.3	35	3	8.6	40	2	5.0	34	-	-
Long Beach	39	3	7.7	39	2	5.1	47	2	4.3	44	3	6.8	42	2	4.8	29	2	6.9	34	1	2.9
Los Angeles	879	58	6.6	815	58	7.1	790	60	7.6	702	39	5.6	674	34	5.0	680	39	5.7	625	27	4.3
Marin	6	-	-	16	2	12.5	6	-	-	14	-	-	11	2	18.2	12	-	-	15	-	-
Merced	9	-	-	5	-	-	5	-	-	11	-	-	6	-	-	6	-	-	19	-	-
Monterey	29	2	6.9	22	-	-	24	2	8.3	16	-	-	21	-	-	25	-	-	18	-	-
Orange	226	9	4.0	217	5	2.3	210	3	1.4	197	6	3.0	224	3	1.3	209	4	1.9	192	1	0.5
Riverside	74	3	4.1	80	2	2.5	79	2	2.5	69	2	2.9	74	-	-	68	5	7.4	57	-	-
Sacramento	97	2	2.1	109	4	3.7	110	2	1.8	98	4	4.1	64	3	4.7	75	3	4.0	63	2	3.2
San Bernardino	58	3	5.2	59	4	6.8	74	1	1.4	76	4	5.3	60	3	5.0	53	1	1.9	58	1	1.7
San Diego	315	29	9.2	280	21	7.5	264	22	8.3	223	16	7.2	222	15	6.8	263	18	6.8	234	17	7.3
San Francisco	120	11	9.2	143	12	8.4	118	13	11.0	115	9	7.8	98	4	4.1	108	3	2.8	116	6	5.2
San Joaquin	78	4	5.1	51	4	7.8	66	2	3.0	76	4	5.3	46	5	10.9	44	1	2.3	44	-	-
San Mateo	78	4	5.1	89	1	1.1	64	1	1.6	66	1	1.5	59	2	3.4	59	1	1.7	54	1	1.9
Santa Barbara	15	-	-	14	-	-	34	1	2.9	22	-	-	30	1	3.3	21	1	4.8	24	1	4.2
Santa Clara	228	10	4.4	240	4	1.7	197	5	2.5	197	3	1.5	193	4	2.1	180	3	1.7	176	6	3.4
Santa Cruz	6	-	-	10	-	-	10	-	-	5	-	-	10	2	20.0	10	-	-	7	1	14.3
Solano	26	-	-	37	-	-	33	-	-	23	3	13.0	20	1	5.0	34	1	2.9	17	-	-
Sonoma	14	-	-	13	-	-	9	-	-	9	-	-	9	-	-	13	-	-	14	1	7.1
Stanislaus	16	-	-	16	2	12.5	20	1	5.0	20	-	-	16	1	6.3	9	-	-	7	1	14.3
Tulare	21	-	-	25	1	4.0	33	1	3.0	24	-	-	26	-	-	20	-	-	12	-	-
Ventura	49	1	2.0	57	1	1.8	65	-	-	48	2	4.2	33	1	3.0	35	3	8.6	34	-	-
All Other Jurisdictions**	66	4	6.1	80	2	2.5	82	2	2.4	66	2	3.0	62	-	-	65	-	-	80	2	2.5

- Indicates zero cases or zero percent

\* Match found in HIV/AIDS Registry, California Office of AIDS

\*\* Reporting jurisdictions with fewer than 5 cases in any year (2006-2012)

**Table 36. HIV Status at Time of Tuberculosis Diagnosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	HIV Testing Status										Test Done, Results	
		Positive		Negative		Not Offered		Refused		Unknown			
		No.	%	No.	%	No.	%	No.	%	No.	%	Unk/Missing	No. %
<b>California</b>	<b>2,169</b>	<b>77</b>	<b>3.6</b>	<b>1,832</b>	<b>84.5</b>	<b>134</b>	<b>6.2</b>	<b>56</b>	<b>2.6</b>	<b>10</b>	<b>0.5</b>	<b>60</b>	<b>2.8</b>
Alameda	114	6	5.3	88	77.2	7	6.1	4	3.5	1	0.9	8	7.0
Berkeley	5	-	-	5	100.0	-	-	-	-	-	-	-	-
Contra Costa	57	1	1.8	53	93.0	2	3.5	-	-	-	-	1	1.8
Fresno	39	1	2.6	28	71.8	7	17.9	2	5.1	1	2.6	-	-
Imperial	38	-	-	27	71.1	10	26.3	-	-	-	-	1	2.6
Kern	28	2	7.1	25	89.3	-	-	1	3.6	-	-	-	-
Kings	6	-	-	6	100.0	-	-	-	-	-	-	-	-
Long Beach	38	-	-	30	78.9	-	-	3	7.9	-	-	5	13.2
Los Angeles	666	23	3.5	563	84.5	58	8.7	19	2.9	3	0.5	-	-
Madera	5	-	-	4	80.0	1	20.0	-	-	-	-	-	-
Marin	13	-	-	12	92.3	1	7.7	-	-	-	-	-	-
Merced	12	-	-	4	33.3	6	50.0	-	-	1	8.3	1	8.3
Monterey	17	1	5.9	16	94.1	-	-	-	-	-	-	-	-
Orange	187	5	2.7	162	86.6	5	2.7	10	5.3	-	-	5	2.7
Pasadena	5	-	-	4	80.0	-	-	1	20.0	-	-	-	-
Placer	6	1	16.7	1	16.7	-	-	-	-	-	-	4	66.7
Riverside	54	-	-	48	88.9	-	-	-	-	1	1.9	5	9.3
Sacramento	84	6	7.1	73	86.9	3	3.6	-	-	-	-	2	2.4
San Bernardino	57	1	1.8	48	84.2	8	14.0	-	-	-	-	-	-
San Diego	206	15	7.3	173	84.0	6	2.9	6	2.9	-	-	6	2.9
San Francisco	107	8	7.5	99	92.5	-	-	-	-	-	-	-	-
San Joaquin	43	1	2.3	37	86.0	5	11.6	-	-	-	-	-	-
San Mateo	58	-	-	48	82.8	5	8.6	3	5.2	-	-	2	3.4
Santa Barbara	26	-	-	25	96.2	1	3.8	-	-	-	-	-	-
Santa Clara	181	2	1.1	164	90.6	2	1.1	2	1.1	-	-	11	6.1
Santa Cruz	5	-	-	5	100.0	-	-	-	-	-	-	-	-
Solano	13	1	7.7	11	84.6	1	7.7	-	-	-	-	-	-
Sonoma	8	-	-	5	62.5	1	12.5	-	-	-	-	2	25.0
Stanislaus	10	-	-	6	60.0	3	30.0	1	10.0	-	-	-	-
Tulare	16	-	-	12	75.0	-	-	2	12.5	-	-	2	12.5
Ventura	27	1	3.7	24	88.9	1	3.7	1	3.7	-	-	-	-
Yolo	6	1	16.7	-	-	-	-	-	-	1	16.7	4	66.7
Yuba	5	-	-	3	60.0	-	-	-	-	2	40.0	-	-
All Other Jurisdictions*	27	1	3.7	23	85.2	1	3.7	1	3.7	-	-	1	3.7

- Indicates zero cases or zero percent

\*Reporting jurisdictions with fewer than 5 cases

**Table 37. Medical Risk Factors for Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Non-HIV										TNF- $\alpha$	
		Diabetes Mellitus		Immunosuppressive Condition		HIV*		Renal Disease		Post-organ Transplantation		Antagonist Therapy**	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	2,169	540	24.9	112	5.2	77	4.0	77	3.6	15	0.7	20	0.9
Alameda	114	30	26.3	5	4.4	6	6.4	1	0.9	-	-	-	-
Berkeley	5	1	20.0	-	-	-	-	-	-	-	-	-	-
Contra Costa	57	18	31.6	4	7.0	1	1.9	3	5.3	1	1.8	-	-
Fresno	39	13	33.3	1	2.6	1	3.4	-	-	-	-	-	-
Imperial	38	7	18.4	-	-	-	-	-	-	-	-	-	-
Kern	28	5	17.9	-	-	2	7.4	-	-	-	-	-	-
Kings	6	1	16.7	-	-	-	-	1	16.7	-	-	-	-
Long Beach	38	11	28.9	-	-	-	-	2	5.3	-	-	-	-
Los Angeles	666	188	28.2	51	7.7	23	3.9	32	4.8	5	0.8	5	0.8
Madera	5	4	80.0	-	-	-	-	-	-	-	-	-	-
Marin	13	2	15.4	-	-	-	-	-	-	-	-	1	7.7
Merced	12	4	33.3	-	-	-	-	-	-	-	-	-	-
Monterey	17	6	35.3	-	-	1	5.9	-	-	1	5.9	1	5.9
Orange	187	38	20.3	14	7.5	5	3.0	6	3.2	-	-	1	0.5
Pasadena	5	1	20.0	-	-	-	-	1	20.0	-	-	-	-
Placer	6	1	16.7	-	-	1	50.0	-	-	1	16.7	-	-
Riverside	54	14	25.9	-	-	-	-	4	7.4	-	-	-	-
Sacramento	84	15	17.9	4	4.8	6	7.6	-	-	2	2.4	1	1.2
San Bernardino	57	14	24.6	3	5.3	1	2.0	3	5.3	-	-	-	-
San Diego	206	35	17.0	5	2.4	15	8.0	8	3.9	2	1.0	4	1.9
San Francisco	107	23	21.5	4	3.7	8	7.5	6	5.6	-	-	2	1.9
San Joaquin	43	17	39.5	3	7.0	1	2.6	-	-	-	-	-	-
San Mateo	58	15	25.9	3	5.2	-	-	2	3.4	-	-	1	1.7
Santa Barbara	26	8	30.8	1	3.8	-	-	-	-	-	-	-	-
Santa Clara	181	36	19.9	8	4.4	2	1.2	6	3.3	3	1.7	1	0.6
Santa Cruz	5	1	20.0	-	-	-	-	-	-	-	-	-	-
Solano	13	5	38.5	4	30.8	1	8.3	-	-	-	-	2	15.4
Sonoma	8	3	37.5	-	-	-	-	-	-	-	-	-	-
Stanislaus	10	4	40.0	1	10.0	-	-	-	-	-	-	-	-
Tulare	16	6	37.5	-	-	-	-	-	-	-	-	1	6.3
Ventura	27	2	7.4	-	-	1	4.0	-	-	-	-	-	-
Yolo	6	3	50.0	1	16.7	1	100.0	-	-	-	-	-	-
Yuba	5	2	40.0	-	-	-	-	-	-	-	-	-	-
All Other Jurisdictions***	27	7	25.9	-	-	1	4.2	2	7.4	-	-	-	-

- Indicates zero cases or zero percent

\* The denominator for HIV percent is the number of cases with HIV testing (n=1,909).

\*\* Tumor necrosis factor-alpha antagonist therapy

\*\*\* Reporting jurisdictions with fewer than 5 cases

**Table 38. Non-medical Epidemiological Risk Factors\* for Tuberculosis:  
Reporting Jurisdictions in California, 2013**

Reporting Jurisdictions	Total Cases	Contact to MDR-TB**		Contact to Infectious TB Patient		Missed Contact of TB Case		Incomplete LTBI*** Treatment	
		Patient No.	%	TB Patient No.	%	No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>4</b>	<b>0.2</b>	<b>131</b>	<b>6.0</b>	<b>7</b>	<b>0.3</b>	<b>31</b>	<b>1.4</b>
Alameda	114	-	-	6	5.3	-	-	-	-
Berkeley	5	-	-	-	-	-	-	-	-
Contra Costa	57	-	-	1	1.8	-	-	1	1.8
Fresno	39	-	-	4	10.3	-	-	-	-
Imperial	38	-	-	4	10.5	-	-	1	2.6
Kern	28	-	-	3	10.7	-	-	1	3.6
Kings	6	-	-	-	-	-	-	1	16.7
Long Beach	38	-	-	2	5.3	-	-	1	2.6
Los Angeles	666	-	-	30	4.5	2	0.3	7	1.1
Madera	5	-	-	-	-	-	-	-	-
Marin	13	-	-	-	-	-	-	-	-
Merced	12	-	-	3	25.0	-	-	-	-
Monterey	17	-	-	1	5.9	-	-	-	-
Orange	187	1	0.5	19	10.2	-	-	4	2.1
Pasadena	5	-	-	-	-	-	-	-	-
Placer	6	-	-	-	-	-	-	-	-
Riverside	54	-	-	3	5.6	1	1.9	-	-
Sacramento	84	-	-	10	11.9	-	-	2	2.4
San Bernardino	57	-	-	3	5.3	-	-	-	-
San Diego	206	1	0.5	12	5.8	-	-	1	0.5
San Francisco	107	-	-	4	3.7	1	0.9	2	1.9
San Joaquin	43	-	-	12	27.9	1	2.3	1	2.3
San Mateo	58	1	1.7	4	6.9	-	-	1	1.7
Santa Barbara	26	-	-	1	3.8	-	-	-	-
Santa Clara	181	1	0.6	3	1.7	2	1.1	3	1.7
Santa Cruz	5	-	-	-	-	-	-	-	-
Solano	13	-	-	1	7.7	-	-	-	-
Sonoma	8	-	-	-	-	-	-	-	-
Stanislaus	10	-	-	1	10.0	-	-	-	-
Tulare	16	-	-	2	12.5	-	-	-	-
Ventura	27	-	-	-	-	-	-	-	-
Yolo	6	-	-	-	-	-	-	-	-
Yuba	5	-	-	1	20.0	-	-	1	20.0
All Other Jurisdictions†	27	-	-	1	3.7	-	-	4	14.8

- Indicates zero cases or zero percent

\* See Technical Notes for definition of these risk factors.

\*\* Multidrug-resistant tuberculosis

\*\*\*Latent tuberculosis infection

† Reporting jurisdictions with fewer than 5 cases

Table 39. Tuberculosis Cases Among Residents of Correctional Facilities\*: Reporting Jurisdictions in California, 2013

Reporting Jurisdictions	Total Cases	Cases with Information on Residence in a Correctional Facility		Diagnosed in Correctional Facility		Type of Correctional Facility						In Immigration and Customs Enforcement (ICE) Custody**								
		No.	%	No.	%	Federal Prison	No.	%	State Prison	No.	%	Local Jail	No.	%	Juvenile Facility	No.	%	Other Facility	No.	%
						No.			No.		No.		No.		No.		No.			
<b>California</b>	<b>2,169</b>	<b>2,164</b>	<b>99.8</b>	<b>72</b>	<b>3.3</b>	<b>16</b>	<b>22.2</b>	<b>5</b>	<b>6.9</b>	<b>42</b>	<b>58.3</b>	<b>2</b>	<b>2.8</b>	<b>7</b>	<b>9.7</b>	<b>19</b>	<b>26.4</b>			
Alameda	114	114	100.0	6	5.3	3	50.0	-	-	3	50.0	-	-	-	-	-	-	3	50.0	
Berkeley	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Contra Costa	57	57	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fresno	39	39	100.0	1	2.6	-	-	-	-	-	1	100.0	-	-	-	-	-	-	-	
Imperial	38	38	100.0	6	15.8	1	16.7	-	-	4	66.7	-	-	1	16.7	2	33.3	-	-	
Kern	28	28	100.0	2	7.1	1	50.0	1	50.0	-	-	-	-	-	-	-	-	-	-	
Kings	6	6	100.0	1	16.7	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	
Long Beach	38	38	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Los Angeles	666	666	100.0	16	2.4	-	-	-	-	15	93.8	1	6.3	-	-	3	18.8	-	-	
Madera	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Marin	13	13	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Merced	12	11	91.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monterey	17	17	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Orange	187	187	100.0	5	2.7	-	-	-	-	5	100.0	-	-	-	-	-	-	-	-	
Pasadena	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Placer	6	6	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Riverside	54	54	100.0	1	1.9	-	-	-	-	1	100.0	-	-	-	-	-	-	-	-	
Sacramento	84	84	100.0	2	2.4	-	-	-	-	2	100.0	-	-	-	-	-	-	-	-	
San Bernardino	57	57	100.0	2	3.5	1	50.0	1	50.0	-	-	-	-	-	-	-	-	-	-	
San Diego	206	206	100.0	24	11.7	10	41.7	-	-	7	29.2	1	4.2	6	25.0	9	37.5	-	-	
San Francisco	107	107	100.0	1	0.9	-	-	-	-	1	100.0	-	-	-	-	-	-	-	-	
San Joaquin	43	43	100.0	1	2.3	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	
San Mateo	58	58	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Santa Barbara	26	26	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Santa Clara	181	179	98.9	2	1.1	-	-	-	-	2	100.0	-	-	-	-	1	50.0	-	-	
Santa Cruz	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Solano	13	13	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sonoma	8	7	87.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stanislaus	10	10	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tulare	16	15	93.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ventura	27	27	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Yolo	6	6	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Yuba	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All Other Jurisdictions***	27	27	100.0	2	7.4	-	-	1	50.0	1	50.0	-	-	-	-	1	50.0	-	-	

- Indicates zero cases or zero percent

\* Residence in correctional facility at the time of diagnosis

\*\* Patient was under the custody of ICE at the time of diagnosis in a correctional facility. Persons in ICE custody can be housed in other correctional facilities (e.g., federal or state prison, local jail) when a standalone ICE detention center is not available.

\*\*\* Reporting jurisdictions with fewer than 5 cases

**Table 40. Tuberculosis Cases by Homeless Status\*: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Cases with Information on Homeless Status		Cases with Homeless Status	
		No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>2,159</b>	<b>99.5</b>	<b>129</b>	<b>6.0</b>
Alameda	114	113	99.1	3	2.7
Berkeley	5	5	100.0	-	-
Contra Costa	57	57	100.0	1	1.8
Fresno	39	39	100.0	-	-
Imperial	38	37	97.4	2	5.4
Kern	28	27	96.4	1	3.7
Kings	6	6	100.0	-	-
Long Beach	38	38	100.0	2	5.3
Los Angeles	666	665	99.8	65	9.8
Madera	5	5	100.0	-	-
Marin	13	13	100.0	-	-
Merced	12	12	100.0	1	8.3
Monterey	17	17	100.0	-	-
Orange	187	187	100.0	3	1.6
Pasadena	5	5	100.0	-	-
Placer	6	6	100.0	-	-
Riverside	54	54	100.0	1	1.9
Sacramento	84	84	100.0	-	-
San Bernardino	57	57	100.0	3	5.3
San Diego	206	206	100.0	13	6.3
San Francisco	107	106	99.1	11	10.4
San Joaquin	43	43	100.0	2	4.7
San Mateo	58	58	100.0	3	5.2
Santa Barbara	26	26	100.0	4	15.4
Santa Clara	181	179	98.9	6	3.4
Santa Cruz	5	5	100.0	-	-
Solano	13	13	100.0	1	7.7
Sonoma	8	7	87.5	1	14.3
Stanislaus	10	10	100.0	1	10.0
Tulare	16	16	100.0	2	12.5
Ventura	27	27	100.0	1	3.7
Yolo	6	5	83.3	1	20.0
Yuba	5	5	100.0	-	-
All Other Jurisdictions**	27	26	96.3	1	3.8

- Indicates zero cases or zero percent

\* Homeless within past 12 months

\*\* Reporting jurisdictions with fewer than 5 cases

**Table 41. Tuberculosis Cases Among Persons in Long-term Care Facilities\*: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Cases with Information on Residence in Long-term Care Facility		Cases Diagnosed in a Long-term Care Facility	
		No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>2,165</b>	<b>99.8</b>	<b>51</b>	<b>2.4</b>
Alameda	114	114	100.0	4	3.5
Berkeley	5	5	100.0	-	-
Contra Costa	57	57	100.0	1	1.8
Fresno	39	39	100.0	2	5.1
Imperial	38	38	100.0	-	-
Kern	28	28	100.0	1	3.6
Kings	6	6	100.0	-	-
Long Beach	38	38	100.0	2	5.3
Los Angeles	666	666	100.0	19	2.9
Madera	5	5	100.0	-	-
Marin	13	13	100.0	-	-
Merced	12	11	91.7	-	-
Monterey	17	17	100.0	-	-
Orange	187	187	100.0	3	1.6
Pasadena	5	5	100.0	2	40.0
Placer	6	6	100.0	-	-
Riverside	54	54	100.0	1	1.9
Sacramento	84	84	100.0	2	2.4
San Bernardino	57	57	100.0	1	1.8
San Diego	206	206	100.0	1	0.5
San Francisco	107	107	100.0	4	3.7
San Joaquin	43	43	100.0	-	-
San Mateo	58	58	100.0	1	1.7
Santa Barbara	26	26	100.0	2	7.7
Santa Clara	181	180	99.4	4	2.2
Santa Cruz	5	5	100.0	-	-
Solano	13	13	100.0	-	-
Sonoma	8	6	75.0	-	-
Stanislaus	10	10	100.0	-	-
Tulare	16	16	100.0	-	-
Ventura	27	27	100.0	1	3.7
Yolo	6	6	100.0	-	-
Yuba	5	5	100.0	-	-
All Other Jurisdictions**	27	27	100.0	-	-

- Indicates zero cases or zero percent

\* Residence in long-term care facility at time of diagnosis

\*\* Reporting jurisdictions with fewer than 5 cases

**Table 42. Tuberculosis Cases Among Persons Using Injecting Drugs\*: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Cases with Information on Injecting Drug Use		Cases with Injecting Drug Use	
		No.	%	No.	%
California	2,169	2,147	99.0	31	1.4
Alameda	114	114	100.0	-	-
Berkeley	5	5	100.0	-	-
Contra Costa	57	57	100.0	-	-
Fresno	39	39	100.0	-	-
Imperial	38	37	97.4	1	2.7
Kern	28	27	96.4	-	-
Kings	6	6	100.0	-	-
Long Beach	38	37	97.4	-	-
Los Angeles	666	658	98.8	9	1.4
Madera	5	5	100.0	-	-
Marin	13	13	100.0	-	-
Merced	12	12	100.0	1	8.3
Monterey	17	17	100.0	-	-
Orange	187	187	100.0	2	1.1
Pasadena	5	5	100.0	-	-
Placer	6	6	100.0	-	-
Riverside	54	54	100.0	-	-
Sacramento	84	84	100.0	2	2.4
San Bernardino	57	57	100.0	1	1.8
San Diego	206	206	100.0	7	3.4
San Francisco	107	107	100.0	3	2.8
San Joaquin	43	43	100.0	1	2.3
San Mateo	58	58	100.0	-	-
Santa Barbara	26	25	96.2	2	8.0
Santa Clara	181	179	98.9	1	0.6
Santa Cruz	5	5	100.0	-	-
Solano	13	13	100.0	-	-
Sonoma	8	7	87.5	-	-
Stanislaus	10	10	100.0	-	-
Tulare	16	14	87.5	-	-
Ventura	27	27	100.0	-	-
Yolo	6	5	83.3	-	-
Yuba	5	5	100.0	-	-
All Other Jurisdictions**	27	23	85.2	1	4.3

- Indicates zero cases or zero percent

\* Injecting drug use within past 12 months

\*\* Reporting jurisdictions with fewer than 5 cases

**Table 43. Tuberculosis Cases Among Persons Using Non-injecting Drugs\*: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Cases with Information on Non-injecting Drug Use		Cases with Non-injecting Drug Use	
		No.	%	No.	%
<b>California</b>	<b>2,169</b>	<b>2,142</b>	<b>98.8</b>	<b>144</b>	<b>6.7</b>
Alameda	114	114	100.0	11	9.6
Berkeley	5	5	100.0	-	-
Contra Costa	57	57	100.0	2	3.5
Fresno	39	39	100.0	3	7.7
Imperial	38	37	97.4	4	10.8
Kern	28	27	96.4	6	22.2
Kings	6	6	100.0	-	-
Long Beach	38	37	97.4	1	2.7
Los Angeles	666	658	98.8	43	6.5
Madera	5	5	100.0	-	-
Marin	13	13	100.0	-	-
Merced	12	12	100.0	3	25.0
Monterey	17	17	100.0	-	-
Orange	187	187	100.0	10	5.3
Pasadena	5	5	100.0	-	-
Placer	6	6	100.0	-	-
Riverside	54	54	100.0	1	1.9
Sacramento	84	84	100.0	-	-
San Bernardino	57	57	100.0	2	3.5
San Diego	206	206	100.0	33	16.0
San Francisco	107	106	99.1	8	7.5
San Joaquin	43	43	100.0	2	4.7
San Mateo	58	58	100.0	1	1.7
Santa Barbara	26	25	96.2	2	8.0
Santa Clara	181	179	98.9	5	2.8
Santa Cruz	5	5	100.0	-	-
Solano	13	13	100.0	2	15.4
Sonoma	8	5	62.5	-	-
Stanislaus	10	10	100.0	2	20.0
Tulare	16	12	75.0	-	-
Ventura	27	27	100.0	-	-
Yolo	6	5	83.3	-	-
Yuba	5	5	100.0	-	-
All Other Jurisdictions**	27	23	85.2	3	13.0

- Indicates zero cases or zero percent

\* Non-injecting drug use within past 12 months

\*\* Reporting jurisdictions with fewer than 5 cases

**Table 44. Tuberculosis Cases Among Persons Using Excess Alcohol\*: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Cases with Information on Excess Alcohol Use		Cases with Excess Alcohol Use**	
		No.	%	No.	%
California	2,169	2,146	98.9	172	8.0
Alameda	114	114	100.0	7	6.1
Berkeley	5	5	100.0	-	-
Contra Costa	57	57	100.0	2	3.5
Fresno	39	39	100.0	6	15.4
Imperial	38	37	97.4	2	5.4
Kern	28	27	96.4	7	25.9
Kings	6	6	100.0	-	-
Long Beach	38	37	97.4	1	2.7
Los Angeles	666	661	99.2	68	10.3
Madera	5	5	100.0	1	20.0
Marin	13	13	100.0	1	7.7
Merced	12	12	100.0	1	8.3
Monterey	17	17	100.0	-	-
Orange	187	187	100.0	3	1.6
Pasadena	5	5	100.0	-	-
Placer	6	6	100.0	-	-
Riverside	54	54	100.0	-	-
Sacramento	84	84	100.0	1	1.2
San Bernardino	57	57	100.0	1	1.8
San Diego	206	206	100.0	30	14.6
San Francisco	107	107	100.0	10	9.3
San Joaquin	43	42	97.7	9	21.4
San Mateo	58	58	100.0	3	5.2
Santa Barbara	26	25	96.2	1	4.0
Santa Clara	181	179	98.9	6	3.4
Santa Cruz	5	5	100.0	1	20.0
Solano	13	13	100.0	-	-
Sonoma	8	4	50.0	-	-
Stanislaus	10	10	100.0	4	40.0
Tulare	16	13	81.3	3	23.1
Ventura	27	27	100.0	-	-
Yolo	6	5	83.3	-	-
Yuba	5	5	100.0	-	-
All Other Jurisdictions***	27	24	88.9	4	16.7

- Indicates zero cases or zero percent

\* Excess alcohol use within the past 12 months

\*\* Percentage not reported when information is available for less than 75 percent of cases

\*\*\* Reporting jurisdictions with fewer than 5 cases

**Table 45. Tuberculosis Cases by Occupation, Age ≥ 15: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Cases Age ≥ 15	Occupation*																
		Cases with Information on Occupation**		Correctional Health Care Worker		Migrant/ Seasonal Facility Employee		Other Occupation		Retired***		Unemployed***		Not Seeking Employment***				
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%			
		Age ≥ 15	Cases	Age ≥ 15	Cases	Age ≥ 15	Cases	Age ≥ 15	Cases	Age ≥ 15	Cases	Age ≥ 15	Cases	Age ≥ 15	Cases			
<b>California</b>	<b>2,078</b>	<b>2,061</b>	<b>99.2</b>	<b>83</b>	<b>4.0</b>	<b>3</b>	<b>0.1</b>	<b>54</b>	<b>2.6</b>	<b>659</b>	<b>32.0</b>	<b>504</b>	<b>24.5</b>	<b>448</b>	<b>21.7</b>	<b>310</b>	<b>15.0</b>	
Alameda	112	112	100.0	3	2.7	-	-	2	1.8	32	28.6	9	8.0	32	28.6	34	30.4	
Berkeley	5	5	100.0	-	-	-	-	-	-	1	20.0	3	60.0	-	-	1	20.0	
Contra Costa	55	55	100.0	4	7.3	-	-	-	-	19	34.5	25	45.5	3	5.5	4	7.3	
Fresno	36	36	100.0	2	5.6	1	2.8	6	16.7	6	16.7	7	19.4	1	2.8	13	36.1	
Imperial	36	35	97.2	-	-	1	2.9	3	8.6	12	34.3	5	14.3	13	37.1	1	2.9	
Kern	28	27	96.4	-	-	1	3.7	4	14.8	9	33.3	1	3.7	10	37.0	2	7.4	
Kings	6	6	100.0	-	-	-	-	-	-	1	16.7	3	50.0	1	16.7	1	16.7	
Long Beach	38	37	97.4	-	-	-	-	-	-	14	37.8	9	24.3	3	8.1	11	29.7	
Los Angeles	641	634	98.9	15	2.4	-	-	-	-	213	33.6	169	26.7	185	29.2	52	8.2	
Madera	5	5	100.0	-	-	-	-	4	80.0	-	-	-	-	1	20.0	-	-	
Marin	13	13	100.0	2	15.4	-	-	-	-	3	23.1	6	46.2	-	-	2	15.4	
Merced	9	9	100.0	-	-	-	-	2	22.2	1	11.1	4	44.4	-	-	2	22.2	
Monterey	15	15	100.0	-	-	-	-	4	26.7	4	26.7	1	6.7	1	6.7	5	33.3	
Orange	183	183	100.0	18	9.8	-	-	-	-	64	35.0	39	21.3	34	18.6	28	15.3	
Pasadena	5	5	100.0	-	-	-	-	-	-	1	20.0	1	20.0	1	20.0	2	40.0	
<b>‡</b>	Placer	6	6	100.0	1	16.7	-	-	-	-	-	-	2	33.3	2	33.3	1	16.7
	Riverside	52	51	98.1	3	5.9	-	-	-	-	13	25.5	16	31.4	9	17.6	10	19.6
	Sacramento	81	81	100.0	-	-	-	-	-	25	30.9	21	25.9	11	13.6	24	29.6	
	San Bernardino	50	50	100.0	2	4.0	-	-	-	-	16	32.0	5	10.0	8	16.0	19	38.0
	San Diego	198	198	100.0	5	2.5	-	-	2	1.0	69	34.8	39	19.7	53	26.8	30	15.2
	San Francisco	104	104	100.0	1	1.0	-	-	-	-	34	32.7	35	33.7	34	32.7	-	-
	San Joaquin	38	38	100.0	1	2.6	-	-	3	7.9	9	23.7	12	31.6	-	-	13	34.2
	San Mateo	55	55	100.0	5	9.1	-	-	3	5.5	21	38.2	11	20.0	3	5.5	12	21.8
	Santa Barbara	23	23	100.0	1	4.3	-	-	6	26.1	3	13.0	5	21.7	2	8.7	6	26.1
	Santa Clara	177	175	98.9	13	7.4	-	-	1	0.6	68	38.9	45	25.7	26	14.9	22	12.6
Santa Cruz	4	4	100.0	-	-	-	-	-	-	1	25.0	2	50.0	1	25.0	-	-	
Solano	13	13	100.0	1	7.7	-	-	-	-	1	7.7	6	46.2	4	30.8	1	7.7	
Sonoma	7	5	71.4	-	-	-	-	-	-	2	-	-	-	-	-	3	-	
Stanislaus	7	7	100.0	-	-	-	-	3	42.9	1	14.3	1	14.3	1	14.3	1	14.3	
Tulare	15	15	100.0	1	6.7	-	-	5	33.3	3	20.0	4	26.7	-	-	2	13.3	
Ventura	25	25	100.0	1	4.0	-	-	4	16.0	6	24.0	8	32.0	3	12.0	3	12.0	
Yolo	6	5	83.3	1	20.0	-	-	-	-	-	-	2	40.0	1	20.0	1	20.0	
Yuba	4	4	100.0	-	-	-	-	-	-	-	-	2	50.0	1	25.0	1	25.0	
All Other Jurisdictions†	26	25	96.2	3	12.0	-	-	2	8.0	7	28.0	6	24.0	4	16.0	3	12.0	

\* Primary occupation within past 12 months

\*\* Percentage not reported when information is available for less than 75 percent of cases

\*\*\* Retired=person who was retired during the 12 months before the TB diagnostic evaluation; unemployed=person not employed during the 12 months before the diagnostic evaluation; not seeking employment=student, homemaker, person receiving permanent disability benefits, or person who was institutionalized

† Reporting jurisdictions with fewer than 5 total cases

**Table 46. Tuberculosis Cases by Initial Drug Susceptibility Testing: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Cases	Total Culture Positive Cases	Cases with Initial Drug Susceptibility Testing	
			No.	%
California	2,169	1,756	1,703	97.0
Alameda	114	87	80	92.0
Alpine	-	-	-	-
Amador	-	-	-	-
Berkeley	5	5	5	100.0
Butte	4	4	4	100.0
Calaveras	-	-	-	-
Colusa	-	-	-	-
Contra Costa	57	42	42	100.0
Del Norte	-	-	-	-
El Dorado	1	1	1	100.0
Fresno	39	35	35	100.0
Glenn	1	1	1	100.0
Humboldt	2	2	1	50.0
Imperial	38	31	30	96.8
Inyo	-	-	-	-
Kern	28	23	20	87.0
Kings	6	5	5	100.0
Lake	2	1	1	100.0
Lassen	-	-	-	-
Long Beach	38	31	31	100.0
Los Angeles	666	538	531	98.7
Madera	5	5	5	100.0
Marin	13	8	7	87.5
Mariposa	-	-	-	-
Mendocino	1	1	1	100.0
Merced	12	12	9	75.0
Modoc	-	-	-	-
Mono	-	-	-	-
Monterey	17	15	14	93.3
Napa	3	2	2	100.0
Nevada	-	-	-	-
Orange	187	160	159	99.4
Pasadena	5	4	4	100.0
Placer	6	3	1	33.3
Plumas	-	-	-	-
Riverside	54	50	43	86.0
Sacramento	84	71	71	100.0
San Benito	1	1	1	100.0
San Bernardino	57	48	48	100.0
San Diego	206	170	170	100.0
San Francisco	107	74	74	100.0
San Joaquin	43	38	38	100.0
San Luis Obispo	4	4	4	100.0
San Mateo	58	46	44	95.7
Santa Barbara	26	24	24	100.0
Santa Clara	181	146	141	96.6
Santa Cruz	5	2	2	100.0
Shasta	4	3	3	100.0
Sierra	-	-	-	-
Siskiyou	-	-	-	-
Solano	13	9	9	100.0
Sonoma	8	5	4	80.0
Stanislaus	10	8	6	75.0
Sutter	4	4	4	100.0
Tehama	-	-	-	-
Trinity	-	-	-	-
Tulare	16	9	1	11.1
Tuolumne	-	-	-	-
Ventura	27	21	20	95.2
Yolo	6	3	3	100.0
Yuba	5	4	4	100.0

- Indicates zero cases or zero percent

**Table 47. Tuberculosis Cases by Resistance to Isoniazid and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*			No Prior TB			Prior TB		
		No. with INH** Susceptibility Testing	Cases with Resistance to INH No.	%	No. with INH Susceptibility Testing	Cases with Resistance to INH No.	%	No. with INH Susceptibility Testing	Cases with Resistance to INH No.	%
<b>California</b>	<b>1,756</b>	<b>1,696</b>	<b>180</b>	<b>10.6</b>	<b>1,615</b>	<b>166</b>	<b>10.3</b>	<b>78</b>	<b>13</b>	<b>16.7</b>
Alameda	87	80	10	12.5	76	9	11.8	4	1	25.0
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	5	5	-	-	4	-	-	1	-	-
Butte	4	4	1	25.0	4	1	25.0	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	42	42	2	4.8	41	2	4.9	1	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	-	-	1	-	-	-	-	-
Fresno	35	35	4	11.4	35	4	11.4	-	-	-
Glenn	1	1	1	100.0	1	1	100.0	-	-	-
Humboldt	2	1	-	-	1	-	-	-	-	-
Imperial	31	30	1	3.3	29	1	3.4	1	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	23	20	2	10.0	19	2	10.5	1	-	-
Kings	5	5	-	-	5	-	-	-	-	-
Lake	1	1	-	-	1	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	31	30	3	10.0	29	3	10.3	1	-	-
Los Angeles	538	530	50	9.4	502	46	9.2	28	4	14.3
Madera	5	5	-	-	5	-	-	-	-	-
Marin	8	7	-	-	7	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	1	-	-	-	-	-
Merced	12	9	3	33.3	8	2	25.0	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	15	14	-	-	13	-	-	1	-	-
Napa	2	2	-	-	2	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	160	159	22	13.8	149	21	14.1	10	1	10.0
Pasadena	4	4	-	-	4	-	-	-	-	-
Placer	3	1	1	100.0	1	1	100.0	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	50	43	7	16.3	42	7	16.7	1	-	-
Sacramento	71	68	5	7.4	64	5	7.8	4	-	-
San Benito	1	1	-	-	1	-	-	-	-	-
San Bernardino	48	48	3	6.3	46	3	6.5	2	-	-
San Diego	170	170	15	8.8	162	13	8.0	8	2	25.0
San Francisco	74	74	10	13.5	65	6	9.2	9	4	44.4
San Joaquin	38	38	4	10.5	36	4	11.1	2	-	-
San Luis Obispo	4	4	-	-	4	-	-	-	-	-
San Mateo	46	44	5	11.4	43	4	9.3	1	1	100.0
Santa Barbara	24	24	6	25.0	24	6	25.0	-	-	-
Santa Clara	146	140	18	12.9	135	18	13.3	3	-	-
Santa Cruz	2	2	-	-	2	-	-	-	-	-
Shasta	3	3	1	33.3	3	1	33.3	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	9	8	1	12.5	8	1	12.5	-	-	-
Sonoma	5	4	1	25.0	4	1	25.0	-	-	-
Stanislaus	8	6	-	-	6	-	-	-	-	-
Sutter	4	4	1	25.0	4	1	25.0	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	9	1	-	-	1	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	21	20	2	10.0	20	2	10.0	-	-	-
Yolo	3	3	-	-	3	-	-	-	-	-
Yuba	4	4	1	25.0	4	1	25.0	-	-	-

- Indicates zero cases or zero percent

\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

\*\* INH=isoniazid

**Table 48. Tuberculosis Cases by Resistance to Rifampin and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*				No Prior TB				Prior TB			
		No. with RIF** Susceptibility Testing	Cases with Resistance to RIF			No. with RIF Susceptibility Testing	Cases with Resistance to RIF			No. with RIF Susceptibility Testing	Cases with Resistance to RIF		
			No.	%			No.	%			No.	%	
California	1,756	1,696	30	1.8	1,616	-	24	1.5	77	-	6	7.8	-
Alameda	87	80	-	-	76	-	-	-	4	-	-	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	5	5	-	-	4	-	-	-	1	-	-	-	-
Butte	4	4	-	-	4	-	-	-	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	42	42	-	-	41	-	-	-	1	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	-	-	1	-	-	-	-	-	-	-	-
Fresno	35	35	1	2.9	35	1	2.9	-	-	-	-	-	-
Glenn	1	1	-	-	1	-	-	-	-	-	-	-	-
Humboldt	2	1	-	-	1	-	-	-	-	-	-	-	-
Imperial	31	30	-	-	29	-	-	-	1	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	23	20	-	-	19	-	-	-	1	-	-	-	-
Kings	5	5	-	-	5	-	-	-	-	-	-	-	-
Lake	1	1	-	-	1	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	31	30	-	-	29	-	-	-	1	-	-	-	-
Los Angeles	538	531	7	1.3	503	7	1.4	28	-	-	-	-	-
Madera	5	5	-	-	5	-	-	-	-	-	-	-	-
Marin	8	7	-	-	7	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	1	-	-	-	-	-	-	-	-
Merced	12	9	-	-	8	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	15	14	-	-	13	-	-	-	1	-	-	-	-
Napa	2	2	-	-	2	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	160	158	2	1.3	149	2	1.3	9	-	-	-	-	-
Pasadena	4	4	-	-	4	-	-	-	-	-	-	-	-
Placer	3	1	1	100.0	1	1	100.0	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	50	43	-	-	42	-	-	-	1	-	-	-	-
Sacramento	71	68	4	5.9	64	4	6.3	4	-	-	-	-	-
San Benito	1	1	-	-	1	-	-	-	-	-	-	-	-
San Bernardino	48	48	-	-	46	-	-	-	2	-	-	-	-
San Diego	170	170	4	2.4	162	1	0.6	8	3	37.5	-	-	-
San Francisco	74	74	3	4.1	65	-	-	9	3	33.3	-	-	-
San Joaquin	38	38	1	2.6	36	1	2.8	2	-	-	-	-	-
San Luis Obispo	4	4	-	-	4	-	-	-	-	-	-	-	-
San Mateo	46	44	-	-	43	-	-	1	-	-	-	-	-
Santa Barbara	24	24	1	4.2	24	1	4.2	-	-	-	-	-	-
Santa Clara	146	140	4	2.9	135	4	3.0	3	-	-	-	-	-
Santa Cruz	2	2	-	-	2	-	-	-	-	-	-	-	-
Shasta	3	3	-	-	3	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	9	8	-	-	8	-	-	-	-	-	-	-	-
Sonoma	5	4	-	-	4	-	-	-	-	-	-	-	-
Stanislaus	8	6	-	-	6	-	-	-	-	-	-	-	-
Sutter	4	4	-	-	4	-	-	-	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	9	1	-	-	1	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	21	20	1	5.0	20	1	5.0	-	-	-	-	-	-
Yolo	3	3	-	-	3	-	-	-	-	-	-	-	-
Yuba	4	4	1	25.0	4	1	25.0	-	-	-	-	-	-

- Indicates zero cases or zero percent

\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

\*\* RIF=rifampin

**Table 49. Tuberculosis Cases by Resistance to Ethambutol and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*				No Prior TB				Prior TB			
		No. with EMB** Susceptibility Testing	Cases with Resistance to EMB			No. with EMB Susceptibility Testing	Cases with Resistance to EMB			No. with EMB Susceptibility Testing	Cases with Resistance to EMB		
			No.	%			No.	%			No.	%	
California	1,756	1,690	19	1.1		1,609	16	1.0		78	3	3.8	
Alameda	87	80	-	-		76	-	-		4	-	-	
Alpine	-	-	-	-		-	-	-		-	-	-	
Amador	-	-	-	-		-	-	-		-	-	-	
Berkeley	5	3	-	-		2	-	-		1	-	-	
Butte	4	4	-	-		4	-	-		-	-	-	
Calaveras	-	-	-	-		-	-	-		-	-	-	
Colusa	-	-	-	-		-	-	-		-	-	-	
Contra Costa	42	42	-	-		41	-	-		1	-	-	
Del Norte	-	-	-	-		-	-	-		-	-	-	
El Dorado	1	1	-	-		1	-	-		-	-	-	
Fresno	35	35	2	5.7		35	2	5.7		-	-	-	
Glenn	1	1	-	-		1	-	-		-	-	-	
Humboldt	2	-	-	-		-	-	-		-	-	-	
Imperial	31	30	-	-		29	-	-		1	-	-	
Inyo	-	-	-	-		-	-	-		-	-	-	
Kern	23	20	-	-		19	-	-		1	-	-	
Kings	5	5	-	-		5	-	-		-	-	-	
Lake	1	1	-	-		1	-	-		-	-	-	
Lassen	-	-	-	-		-	-	-		-	-	-	
Long Beach	31	30	-	-		29	-	-		1	-	-	
Los Angeles	538	531	4	0.8		503	4	0.8		28	-	-	
Madera	5	5	-	-		5	-	-		-	-	-	
Marin	8	7	-	-		7	-	-		-	-	-	
Mariposa	-	-	-	-		-	-	-		-	-	-	
Mendocino	1	1	-	-		1	-	-		-	-	-	
Merced	12	9	-	-		8	-	-		-	-	-	
Modoc	-	-	-	-		-	-	-		-	-	-	
Mono	-	-	-	-		-	-	-		-	-	-	
Monterey	15	14	-	-		13	-	-		1	-	-	
Napa	2	2	-	-		2	-	-		-	-	-	
Nevada	-	-	-	-		-	-	-		-	-	-	
Orange	160	159	-	-		149	-	-		10	-	-	
Pasadena	4	4	-	-		4	-	-		-	-	-	
Placer	3	-	-	-		-	-	-		-	-	-	
Plumas	-	-	-	-		-	-	-		-	-	-	
Riverside	50	43	1	2.3		42	1	2.4		1	-	-	
Sacramento	71	66	2	3.0		62	2	3.2		4	-	-	
San Benito	1	1	-	-		1	-	-		-	-	-	
San Bernardino	48	48	-	-		46	-	-		2	-	-	
San Diego	170	170	4	2.4		162	1	0.6		8	3	37.5	
San Francisco	74	74	-	-		65	-	-		9	-	-	
San Joaquin	38	38	1	2.6		36	1	2.8		2	-	-	
San Luis Obispo	4	4	-	-		4	-	-		-	-	-	
San Mateo	46	44	-	-		43	-	-		1	-	-	
Santa Barbara	24	23	-	-		23	-	-		-	-	-	
Santa Clara	146	140	4	2.9		135	4	3.0		3	-	-	
Santa Cruz	2	2	-	-		2	-	-		-	-	-	
Shasta	3	3	-	-		3	-	-		-	-	-	
Sierra	-	-	-	-		-	-	-		-	-	-	
Siskiyou	-	-	-	-		-	-	-		-	-	-	
Solano	9	8	-	-		8	-	-		-	-	-	
Sonoma	5	4	-	-		4	-	-		-	-	-	
Stanislaus	8	6	-	-		6	-	-		-	-	-	
Sutter	4	4	-	-		4	-	-		-	-	-	
Tehama	-	-	-	-		-	-	-		-	-	-	
Trinity	-	-	-	-		-	-	-		-	-	-	
Tulare	9	1	-	-		1	-	-		-	-	-	
Tuolumne	-	-	-	-		-	-	-		-	-	-	
Ventura	21	20	-	-		20	-	-		-	-	-	
Yolo	3	3	-	-		3	-	-		-	-	-	
Yuba	4	4	1	25.0		4	1	25.0		-	-	-	

- Indicates zero cases or zero percent

\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

\*\* EMB=ethambutol

**Table 50. Tuberculosis Cases by Resistance to Pyrazinamide and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*				No Prior TB				Prior TB			
		No. with PZA** Susceptibility Testing	Cases with Resistance to PZA			No. with PZA Susceptibility Testing	Cases with Resistance to PZA			No. with PZA Susceptibility Testing	Cases with Resistance to PZA		
			No.	%			No.	%			No.	%	
<b>California</b>	<b>1,756</b>	<b>1,676</b>	<b>112</b>	<b>6.7</b>	<b>1,595</b>	<b>107</b>	<b>6.7</b>	<b>78</b>	<b>5</b>	<b>6.4</b>			
Alameda	87	80	4	5.0	76	4	5.3	4	-	-	-	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	5	3	-	-	2	-	-	1	-	-	-	-	-
Butte	4	4	-	-	4	-	-	-	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	42	41	2	4.9	40	2	5.0	1	-	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	-	-	1	-	-	-	-	-	-	-	-
Fresno	35	35	-	-	35	-	-	-	-	-	-	-	-
Glenn	1	1	-	-	1	-	-	-	-	-	-	-	-
Humboldt	2	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	31	28	2	7.1	27	2	7.4	1	-	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	23	19	-	-	18	-	-	1	-	-	-	-	-
Kings	5	5	-	-	5	-	-	-	-	-	-	-	-
Lake	1	1	-	-	1	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	31	30	2	6.7	29	2	6.9	1	-	-	-	-	-
Los Angeles	538	530	33	6.2	502	32	6.4	28	1	3.6	-	-	-
Madera	5	5	-	-	5	-	-	-	-	-	-	-	-
Marin	8	7	2	28.6	7	2	28.6	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	1	-	-	-	-	-	-	-	-
Merced	12	9	-	-	8	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	15	14	2	14.3	13	2	15.4	1	-	-	-	-	-
Napa	2	2	1	50.0	2	1	50.0	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	160	156	9	5.8	146	8	5.5	10	1	10.0	-	-	-
Pasadena	4	4	1	25.0	4	1	25.0	-	-	-	-	-	-
Placer	3	-	-	-	-	-	-	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	50	43	3	7.0	42	3	7.1	1	-	-	-	-	-
Sacramento	71	67	6	9.0	63	6	9.5	4	-	-	-	-	-
San Benito	1	1	-	-	1	-	-	-	-	-	-	-	-
San Bernardino	48	47	5	10.6	45	5	11.1	2	-	-	-	-	-
San Diego	170	170	16	9.4	162	15	9.3	8	1	12.5	-	-	-
San Francisco	74	74	4	5.4	65	2	3.1	9	2	22.2	-	-	-
San Joaquin	38	38	3	7.9	36	3	8.3	2	-	-	-	-	-
San Luis Obispo	4	4	-	-	4	-	-	-	-	-	-	-	-
San Mateo	46	44	1	2.3	43	1	2.3	1	-	-	-	-	-
Santa Barbara	24	23	2	8.7	23	2	8.7	-	-	-	-	-	-
Santa Clara	146	135	8	5.9	130	8	6.2	3	-	-	-	-	-
Santa Cruz	2	2	-	-	2	-	-	-	-	-	-	-	-
Shasta	3	3	-	-	3	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	9	8	-	-	8	-	-	-	-	-	-	-	-
Sonoma	5	4	1	25.0	4	1	25.0	-	-	-	-	-	-
Stanislaus	8	6	1	16.7	6	1	16.7	-	-	-	-	-	-
Sutter	4	3	-	-	3	-	-	-	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	9	1	-	-	1	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	21	20	2	10.0	20	2	10.0	-	-	-	-	-	-
Yolo	3	3	-	-	3	-	-	-	-	-	-	-	-
Yuba	4	4	2	50.0	4	2	50.0	-	-	-	-	-	-

- Indicates zero cases or zero percent

\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

\*\* PZA=pyrazinamide

**Table 51. Tuberculosis Cases by Resistance to Streptomycin and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*				No Prior TB				Prior TB			
		No. with SM** Susceptibility Testing	Cases with Resistance to SM			No. with SM Susceptibility Testing	Cases with Resistance to SM			No. with SM Susceptibility Testing	Cases with Resistance to SM		
			No.	%			No.	%			No.	%	
<b>California</b>	<b>1,756</b>	<b>964</b>	<b>103</b>	<b>10.7</b>		<b>909</b>	<b>93</b>	<b>10.2</b>		<b>53</b>	<b>10</b>	<b>18.9</b>	
Alameda	87	29	3	10.3		28	3	10.7		1	-	-	
Alpine	-	-	-	-		-	-	-		-	-	-	
Amador	-	-	-	-		-	-	-		-	-	-	
Berkeley	5	3	-	-		2	-	-		1	-	-	
Butte	4	1	-	-		1	-	-		-	-	-	
Calaveras	-	-	-	-		-	-	-		-	-	-	
Colusa	-	-	-	-		-	-	-		-	-	-	
Contra Costa	42	2	-	-		2	-	-		-	-	-	
Del Norte	-	-	-	-		-	-	-		-	-	-	
El Dorado	1	1	-	-		1	-	-		-	-	-	
Fresno	35	9	2	22.2		9	2	22.2		-	-	-	
Glenn	1	-	-	-		-	-	-		-	-	-	
Humboldt	2	-	-	-		-	-	-		-	-	-	
Imperial	31	1	-	-		1	-	-		-	-	-	
Inyo	-	-	-	-		-	-	-		-	-	-	
Kern	23	1	-	-		1	-	-		-	-	-	
Kings	5	-	-	-		-	-	-		-	-	-	
Lake	1	-	-	-		-	-	-		-	-	-	
Lassen	-	-	-	-		-	-	-		-	-	-	
Long Beach	31	10	3	30.0		9	3	33.3		1	-	-	
Los Angeles	538	495	45	9.1		467	42	9.0		28	3	10.7	
Madera	5	4	-	-		4	-	-		-	-	-	
Marin	8	2	-	-		2	-	-		-	-	-	
Mariposa	-	-	-	-		-	-	-		-	-	-	
Mendocino	1	-	-	-		-	-	-		-	-	-	
Merced	12	1	1	100.0		1	1	100.0		-	-	-	
Modoc	-	-	-	-		-	-	-		-	-	-	
Mono	-	-	-	-		-	-	-		-	-	-	
Monterey	15	2	-	-		1	-	-		1	-	-	
Napa	2	1	-	-		1	-	-		-	-	-	
Nevada	-	-	-	-		-	-	-		-	-	-	
Orange	160	68	15	22.1		62	12	19.4		6	3	50.0	
Pasadena	4	4	-	-		4	-	-		-	-	-	
Placer	3	-	-	-		-	-	-		-	-	-	
Plumas	-	-	-	-		-	-	-		-	-	-	
Riverside	50	41	4	9.8		40	4	10.0		1	-	-	
Sacramento	71	3	1	33.3		3	1	33.3		-	-	-	
San Benito	1	-	-	-		-	-	-		-	-	-	
San Bernardino	48	39	-	-		37	-	-		2	-	-	
San Diego	170	44	2	4.5		42	2	4.8		2	-	-	
San Francisco	74	62	6	9.7		56	3	5.4		6	3	50.0	
San Joaquin	38	5	2	40.0		4	1	25.0		1	1	100.0	
San Luis Obispo	4	-	-	-		-	-	-		-	-	-	
San Mateo	46	24	1	4.2		23	1	4.3		1	-	-	
Santa Barbara	24	21	1	4.8		21	1	4.8		-	-	-	
Santa Clara	146	78	13	16.7		74	13	17.6		2	-	-	
Santa Cruz	2	-	-	-		-	-	-		-	-	-	
Shasta	3	1	-	-		1	-	-		-	-	-	
Sierra	-	-	-	-		-	-	-		-	-	-	
Siskiyou	-	-	-	-		-	-	-		-	-	-	
Solano	9	1	1	100.0		1	1	100.0		-	-	-	
Sonoma	5	1	-	-		1	-	-		-	-	-	
Stanislaus	8	-	-	-		-	-	-		-	-	-	
Sutter	4	4	1	25.0		4	1	25.0		-	-	-	
Tehama	-	-	-	-		-	-	-		-	-	-	
Trinity	-	-	-	-		-	-	-		-	-	-	
Tulare	9	1	-	-		1	-	-		-	-	-	
Tuolumne	-	-	-	-		-	-	-		-	-	-	
Ventura	21	2	1	50.0		2	1	50.0		-	-	-	
Yolo	3	-	-	-		-	-	-		-	-	-	
Yuba	4	3	1	33.3		3	1	33.3		-	-	-	

- Indicates zero cases or zero percent

\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

\*\* SM=streptomycin

**Table 52. Multidrug-resistant (MDR) Tuberculosis Cases\* by History of Prior Tuberculosis: Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	All Cases**				No Prior TB				Prior TB	
	Total Culture Positive Cases	No. with MDR Susceptibility Testing	Cases with Multidrug Resistance		No. with MDR Susceptibility Testing	Cases with Multidrug Resistance		No. with MDR Susceptibility Testing	Cases with Multidrug Resistance	
			No.	%		No.	%		No.	%
<b>California</b>	<b>1,756</b>	<b>1,695</b>	<b>27</b>	<b>1.6</b>	<b>1,615</b>	<b>22</b>	<b>1.4</b>	<b>77</b>	<b>5</b>	<b>6.5</b>
Alameda	87	80	-	-	76	-	-	4	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	5	5	-	-	4	-	-	1	-	-
Butte	4	4	-	-	4	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	42	42	-	-	41	-	-	1	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	1	1	-	-	1	-	-	-	-	-
Fresno	35	35	1	2.9	35	1	2.9	-	-	-
Glenn	1	1	-	-	1	-	-	-	-	-
Humboldt	2	1	-	-	1	-	-	-	-	-
Imperial	31	30	-	-	29	-	-	1	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	23	20	-	-	19	-	-	1	-	-
Kings	5	5	-	-	5	-	-	-	-	-
Lake	1	1	-	-	1	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	31	30	-	-	29	-	-	1	-	-
Los Angeles	538	530	6	1.1	502	6	1.2	28	-	-
Madera	5	5	-	-	5	-	-	-	-	-
Marin	8	7	-	-	7	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	1	-	-	-	-	-
Merced	12	9	-	-	8	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	15	14	-	-	13	-	-	1	-	-
Napa	2	2	-	-	2	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	160	158	2	1.3	149	2	1.3	9	-	-
Pasadena	4	4	-	-	4	-	-	-	-	-
Placer	3	1	1	100.0	1	1	100.0	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	50	43	-	-	42	-	-	1	-	-
Sacramento	71	68	3	4.4	64	3	4.7	4	-	-
San Benito	1	1	-	-	1	-	-	-	-	-
San Bernardino	48	48	-	-	46	-	-	2	-	-
San Diego	170	170	3	1.8	162	1	0.6	8	2	25.0
San Francisco	74	74	3	4.1	65	-	-	9	3	33.3
San Joaquin	38	38	1	2.6	36	1	2.8	2	-	-
San Luis Obispo	4	4	-	-	4	-	-	-	-	-
San Mateo	46	44	-	-	43	-	-	1	-	-
Santa Barbara	24	24	1	4.2	24	1	4.2	-	-	-
Santa Clara	146	140	4	2.9	135	4	3.0	3	-	-
Santa Cruz	2	2	-	-	2	-	-	-	-	-
Shasta	3	3	-	-	3	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	9	8	-	-	8	-	-	-	-	-
Sonoma	5	4	-	-	4	-	-	-	-	-
Stanislaus	8	6	-	-	6	-	-	-	-	-
Sutter	4	4	-	-	4	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	9	1	-	-	1	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	21	20	1	5.0	20	1	5.0	-	-	-
Yolo	3	3	-	-	3	-	-	-	-	-
Yuba	4	4	1	25.0	4	1	25.0	-	-	-

- Indicates zero cases or zero percent

\* Cases with resistance to at least isoniazid and rifampin

\*\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

**Table 53. Tuberculosis Cases by Resistance to at Least One First-line Drug\* and History of Prior Tuberculosis:  
Reporting Jurisdictions in California, 2013**

Reporting Jurisdiction	Total Culture Positive Cases	All Cases**				No Prior TB				Prior TB			
		No. with Susceptibility Testing	Cases with Resistance to ≥ One Drug		No. with Susceptibility Testing	Cases with Resistance to ≥ One Drug		No. with Susceptibility Testing	Cases with Resistance to ≥ One Drug		No. with Susceptibility Testing	Cases with Resistance to ≥ One Drug	
			No.	%		No.	%		No.	%		No.	%
California	1,756	1,697	275	16.2	1,616	258	16.0	78	16	20.5			
Alameda	87	80	14	17.5	76	13	17.1	4	1	25.0			
Alpine	-	-	-	-	-	-	-	-	-	-			
Amador	-	-	-	-	-	-	-	-	-	-			
Berkeley	5	5	-	-	4	-	-	1	-	-			
Butte	4	4	1	25.0	4	1	25.0	-	-	-			
Calaveras	-	-	-	-	-	-	-	-	-	-			
Colusa	-	-	-	-	-	-	-	-	-	-			
Contra Costa	42	42	4	9.5	41	4	9.8	1	-	-			
Del Norte	-	-	-	-	-	-	-	-	-	-			
El Dorado	1	1	-	-	1	-	-	-	-	-			
Fresno	35	35	4	11.4	35	4	11.4	-	-	-			
Glenn	1	1	1	100.0	1	1	100.0	-	-	-			
Humboldt	2	1	-	-	1	-	-	-	-	-			
Imperial	31	30	3	10.0	29	3	10.3	1	-	-			
Inyo	-	-	-	-	-	-	-	-	-	-			
Kern	23	20	2	10.0	19	2	10.5	1	-	-			
Kings	5	5	-	-	5	-	-	-	-	-			
Lake	1	1	-	-	1	-	-	-	-	-			
Lassen	-	-	-	-	-	-	-	-	-	-			
Long Beach	31	30	4	13.3	29	4	13.8	1	-	-			
Los Angeles	538	531	80	15.1	503	76	15.1	28	4	14.3			
Madera	5	5	-	-	5	-	-	-	-	-			
Marin	8	7	2	28.6	7	2	28.6	-	-	-			
Mariposa	-	-	-	-	-	-	-	-	-	-			
Mendocino	1	1	-	-	1	-	-	-	-	-			
Merced	12	9	3	33.3	8	2	25.0	-	-	-			
Modoc	-	-	-	-	-	-	-	-	-	-			
Mono	-	-	-	-	-	-	-	-	-	-			
Monterey	15	14	2	14.3	13	2	15.4	1	-	-			
Napa	2	2	1	50.0	2	1	50.0	-	-	-			
Nevada	-	-	-	-	-	-	-	-	-	-			
Orange	160	159	28	17.6	149	26	17.4	10	2	20.0			
Pasadena	4	4	1	25.0	4	1	25.0	-	-	-			
Placer	3	1	1	100.0	1	1	100.0	-	-	-			
Plumas	-	-	-	-	-	-	-	-	-	-			
Riverside	50	43	10	23.3	42	10	23.8	1	-	-			
Sacramento	71	68	10	14.7	64	10	15.6	4	-	-			
San Benito	1	1	-	-	1	-	-	-	-	-			
San Bernardino	48	48	8	16.7	46	8	17.4	2	-	-			
San Diego	170	170	32	18.8	162	28	17.3	8	4	50.0			
San Francisco	74	74	12	16.2	65	8	12.3	9	4	44.4			
San Joaquin	38	38	6	15.8	36	6	16.7	2	-	-			
San Luis Obispo	4	4	-	-	4	-	-	-	-	-			
San Mateo	46	44	6	13.6	43	5	11.6	1	1	100.0			
Santa Barbara	24	24	7	29.2	24	7	29.2	-	-	-			
Santa Clara	146	140	22	15.7	135	22	16.3	3	-	-			
Santa Cruz	2	2	-	-	2	-	-	-	-	-			
Shasta	3	3	1	33.3	3	1	33.3	-	-	-			
Sierra	-	-	-	-	-	-	-	-	-	-			
Siskiyou	-	-	-	-	-	-	-	-	-	-			
Solano	9	8	1	12.5	8	1	12.5	-	-	-			
Sonoma	5	4	1	25.0	4	1	25.0	-	-	-			
Stanislaus	8	6	1	16.7	6	1	16.7	-	-	-			
Sutter	4	4	1	25.0	4	1	25.0	-	-	-			
Tehama	-	-	-	-	-	-	-	-	-	-			
Trinity	-	-	-	-	-	-	-	-	-	-			
Tulare	9	1	-	-	1	-	-	-	-	-			
Tuolumne	-	-	-	-	-	-	-	-	-	-			
Ventura	21	20	4	20.0	20	4	20.0	-	-	-			
Yolo	3	3	-	-	3	-	-	-	-	-			
Yuba	4	4	2	50.0	4	2	50.0	-	-	-			

- Indicates zero cases or zero percent

\* First-line drugs include isoniazid, rifampin, ethambutol and pyrazinamide

\*\* Sum of cases with prior TB and without prior TB may not equal all cases due to inclusion of those with unknown history of TB .

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**Table 54. Tuberculosis Cases by Resistance to Isoniazid: Reporting Jurisdictions in California, 2007-2013**

Reporting Jurisdiction	2007			2008			2009			2010			2011			2012			2013 *		
	No. with INH** Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%	No. with INH Testing	Cases with Resistance to INH No.	%
	California	2,155	236	11.0	2,136	223	10.4	1,919	192	10.0	1,829	173	9.5	1,823	195	10.7	1,719	176	10.2	1,696	180
Alameda	117	15	12.8	99	14	14.1	111	12	10.8	125	13	10.4	90	5	5.6	96	13	13.5	80	10	12.5
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
Berkeley	5	1	20.0	3	-	-	2	-	-	5	-	-	1	-	-	6	-	-	5	-	-
Butte	3	1	33.3	3	-	-	2	-	-	2	-	-	-	-	-	2	-	-	4	1	25.0
Calaveras	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	1	-	-	-	-	-
Contra Costa	33	-	-	61	9	14.8	34	5	14.7	29	2	6.9	33	4	12.1	45	3	6.7	42	2	4.8
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	3	2	66.7	2	-	-	-	-	-	1	1	100.0	3	1	33.3	2	-	-	1	-	-
Fresno	32	3	9.4	58	10	17.2	47	7	14.9	43	3	7.0	35	2	5.7	29	3	10.3	35	4	11.4
Glenn	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	2	-	-	1	1	100.0
Humboldt	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	1	-	-	1	-	-
Imperial	27	3	11.1	16	2	12.5	34	-	-	21	1	4.8	25	-	-	28	3	10.7	30	1	3.3
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	32	4	12.5	46	2	4.3	37	-	-	28	4	14.3	31	2	6.5	25	2	8.0	20	2	10.0
Kings	3	-	-	5	-	-	4	-	-	3	-	-	5	1	20.0	5	-	-	5	-	-
Lake	1	-	-	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-
Lassen	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Long Beach	32	5	15.6	40	7	17.5	40	1	2.5	36	5	13.9	22	3	13.6	26	1	3.8	30	3	10.0
Los Angeles	646	59	9.1	625	55	8.8	557	47	8.4	523	47	9.0	536	48	9.0	501	35	7.0	530	50	9.4
Madera	1	-	-	12	-	-	4	-	-	2	-	-	9	-	-	3	-	-	5	-	-
Marin	9	-	-	4	1	25.0	8	-	-	7	3	42.9	10	2	20.0	9	-	-	7	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	-	-	-	3	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-
Merced	3	-	-	5	-	-	10	-	-	6	-	-	6	-	-	16	1	6.3	9	3	33.3
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	18	1	5.6	17	-	-	13	1	7.7	18	2	11.1	23	4	17.4	14	2	14.3	14	-	-
Napa	6	-	-	3	-	-	4	2	50.0	4	-	-	5	-	-	2	1	50.0	2	-	-

- Indicates zero cases or zero percent

\* At the time of report preparation, drug susceptibility testing was 97 percent complete for culture positive cases reported in 2013. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

\*\* INH=isoniazid

**Table 54. Tuberculosis Cases by Resistance to Isoniazid: Reporting Jurisdictions in California, 2007-2013**

Reporting Jurisdiction	2007				2008				2009				2010				2011				2012				2013 *				
	No. with INH** Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		No. with INH Testing		Cases with Resistance to INH		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
Nevada	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	187	20	10.7	187	22	11.8	165	29	17.6	199	23	11.6	181	29	16.0	176	25	14.2	159	22	13.8								
Pasadena	4	-	-	3	-	-	3	-	-	4	-	-	4	-	-	10	1	10.0	4	-	-								
Placer	10	-	-	1	-	-	3	1	33.3	2	-	-	4	-	-	3	-	-	1	1	100.0	1	1	100.0					
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Riverside	68	8	11.8	69	7	10.1	52	5	9.6	65	9	13.8	55	2	3.6	52	4	7.7	43	7	16.3								
Sacramento	79	11	13.9	69	6	8.7	71	10	14.1	43	-	-	54	2	3.7	45	6	13.3	68	5	7.4								
San Benito	-	-	-	1	-	-	-	-	-	1	-	-	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
San Bernardino	47	4	8.5	64	4	6.3	63	5	7.9	48	3	6.3	44	7	15.9	50	8	16.0	48	3	6.3								
San Diego	247	29	11.7	226	27	11.9	176	16	9.1	183	15	8.2	216	32	14.8	183	18	9.8	170	15	8.8								
San Francisco	109	11	10.1	93	5	5.4	85	8	9.4	77	13	16.9	74	10	13.5	84	16	19.0	74	10	13.5								
San Joaquin	33	5	15.2	49	6	12.2	56	6	10.7	37	3	8.1	40	4	10.0	35	3	8.6	38	4	10.5								
San Luis Obispo	3	1	33.3	1	-	-	3	1	33.3	3	-	-	2	1	50.0	3	-	-	4	-	-								
San Mateo	68	11	16.2	53	8	15.1	53	8	15.1	45	6	13.3	46	8	17.4	40	2	5.0	44	5	11.4								
Santa Barbara	13	2	15.4	32	3	9.4	17	4	23.5	26	2	7.7	17	1	5.9	21	1	4.8	24	6	25.0								
Santa Clara	194	28	14.4	162	28	17.3	151	13	8.6	150	16	10.7	155	20	12.9	133	20	15.0	140	18	12.9								
Santa Cruz	6	1	16.7	5	-	-	5	-	-	7	-	-	5	1	20.0	2	1	50.0	2	-	-								
Shasta	2	-	-	2	-	-	1	-	-	1	-	-	-	-	-	1	-	-	3	1	33.3								
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Solano	28	3	10.7	19	3	15.8	18	1	5.6	14	1	7.1	18	1	5.6	11	2	18.2	8	1	12.5								
Sonoma	12	2	16.7	7	-	-	8	1	12.5	8	-	-	10	2	20.0	8	-	-	4	1	25.0								
Stanislaus	13	1	7.7	19	-	-	18	4	22.2	9	-	-	9	-	-	5	-	-	6	-	-								
Sutter	1	-	-	6	-	-	-	-	-	3	-	-	4	-	-	4	2	50.0	4	1	25.0								
Tehama	3	1	33.3	-	-	-	1	1	100.0	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tulare	16	1	6.3	19	2	10.5	15	1	6.7	22	1	4.5	13	-	-	7	-	-	1	-	-								
Tuolumne	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ventura	26	3	11.5	35	1	2.9	35	2	5.7	14	-	-	25	1	4.0	27	2	7.4	20	2	10.0								
Yolo	7	-	-	4	-	-	7	1	14.3	7	-	-	3	1	33.3	3	1	33.3	3	-	-								
Yuba	5	-	-	3	1	33.3	-	-	-	1	-	-	1	1	100.0	1	-	-	4	1	25.0								

- Indicates zero cases or zero percent

\* At the time of report preparation, drug susceptibility testing was 97 percent complete for culture positive cases reported in 2013. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

\*\* INH=isoniazid

**Table 55. Multidrug-resistant (MDR) Tuberculosis Cases\*: Reporting Jurisdictions in California, 2007-2013**

Reporting Jurisdiction	2007			2008			2009			2010			2011			2012			2013 **		
	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%
California	2,155	28	1.3	2,135	31	1.5	1,919	33	1.7	1,829	23	1.3	1,823	35	1.9	1,717	14	0.8	1,695	27	1.6
Alameda	117	1	0.9	99	2	2.0	111	4	3.6	125	3	2.4	90	-	-	96	2	2.1	80	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
Berkeley	5	-	-	3	-	-	2	-	-	5	-	-	1	-	-	6	-	-	5	-	-
Butte	3	1	33.3	3	-	-	2	-	-	2	-	-	-	-	-	2	-	-	4	-	-
Calaveras	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	1	-	-	-	-	-
Contra Costa	33	-	-	61	1	1.6	34	1	2.9	29	-	-	33	1	3.0	45	-	-	42	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	3	1	33.3	2	-	-	-	-	-	1	-	-	3	1	33.3	2	-	-	1	-	-
Fresno	32	1	3.1	58	3	5.2	47	3	6.4	43	1	2.3	35	-	-	28	-	-	35	1	2.9
Glenn	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	2	-	-	1	-	-
Humboldt	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	1	-	-	1	-	-
Imperial	27	1	3.7	16	-	-	34	-	-	21	-	-	25	-	-	28	-	-	30	-	-
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	32	-	-	46	1	2.2	37	-	-	28	-	-	31	1	3.2	25	-	-	20	-	-
Kings	3	-	-	5	-	-	4	-	-	3	-	-	5	1	20.0	5	-	-	5	-	-
Lake	1	-	-	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-
Lassen	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Long Beach	32	-	-	40	1	2.5	40	-	-	36	-	-	22	-	-	26	-	-	30	-	-
Los Angeles	646	5	0.8	625	7	1.1	557	5	0.9	523	8	1.5	536	12	2.2	501	4	0.8	530	6	1.1
Madera	1	-	-	12	-	-	4	-	-	2	-	-	9	-	-	3	-	-	5	-	-
Marin	9	-	-	4	-	-	8	-	-	7	-	-	10	-	-	9	-	-	7	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	-	-	-	3	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-
Merced	3	-	-	5	-	-	10	-	-	6	-	-	6	-	-	16	-	-	9	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	18	-	-	16	-	-	13	-	-	18	-	-	23	-	-	14	-	-	14	-	-
Napa	6	-	-	3	-	-	4	-	-	4	-	-	5	-	-	2	-	-	2	-	-

- Indicates zero cases or zero percent

\* Cases with resistance to at least isoniazid and rifampin

\*\* At the time of report preparation, initial drug susceptibility testing was 97 percent complete for culture positive cases reported in 2013. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

**Table 55. Multidrug-resistant (MDR) Tuberculosis Cases\*: Reporting Jurisdictions in California, 2007-2013**

Reporting Jurisdiction	2007			2008			2009			2010			2011			2012			2013 **			
	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	No. with MDR Testing	Cases with Multidrug Resistance No.	%	
Nevada	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Orange	187	3	1.6	187	2	1.1	165	6	3.6	199	1	0.5	181	5	2.8	176	1	0.6	158	2	1.3	
Pasadena	4	-	-	3	-	-	3	-	-	4	-	-	4	-	-	10	-	-	4	-	-	
Placer	10	-	-	1	-	-	3	-	-	2	-	-	4	-	-	3	-	-	1	1	100.0	
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Riverside	68	1	1.5	69	-	-	52	1	1.9	65	2	3.1	55	1	1.8	52	-	-	43	-	-	
Sacramento	79	1	1.3	69	3	4.3	71	2	2.8	43	-	-	54	-	-	45	-	-	68	3	4.4	
San Benito	-	-	-	1	-	-	-	-	-	1	-	-	3	-	-	-	-	-	1	-	-	
San Bernardino	47	1	2.1	64	-	-	63	-	-	48	-	-	44	-	-	50	1	2.0	48	-	-	
San Diego	247	4	1.6	226	3	1.3	176	3	1.7	183	1	0.5	216	3	1.4	183	2	1.1	170	3	1.8	
San Francisco	109	2	1.8	93	1	1.1	85	-	-	77	3	3.9	74	-	-	84	1	1.2	74	3	4.1	
San Joaquin	33	-	-	49	1	2.0	56	4	7.1	37	-	-	40	1	2.5	35	-	-	38	1	2.6	
San Luis Obispo	3	-	-	1	-	-	3	-	-	3	-	-	2	-	-	3	-	-	4	-	-	
San Mateo	68	1	1.5	53	2	3.8	53	1	1.9	45	1	2.2	46	4	8.7	40	-	-	44	-	-	
Santa Barbara	13	-	-	32	-	-	17	-	-	26	-	-	17	1	5.9	21	-	-	24	1	4.2	
Santa Clara	194	5	2.6	162	2	1.2	151	2	1.3	150	3	2.0	155	4	2.6	132	3	2.3	140	4	2.9	
Santa Cruz	6	-	-	5	-	-	5	-	-	7	-	-	5	-	-	2	-	-	2	-	-	
Shasta	2	-	-	2	-	-	1	-	-	1	-	-	-	-	-	1	-	-	3	-	-	
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Solano	28	-	-	19	-	-	18	-	-	14	-	-	18	-	-	11	-	-	8	-	-	
Sonoma	12	-	-	7	-	-	8	-	-	8	-	-	10	-	-	8	-	-	4	-	-	
Stanislaus	13	-	-	19	-	-	18	-	-	9	-	-	9	-	-	5	-	-	6	-	-	
Sutter	1	-	-	6	-	-	-	-	-	3	-	-	4	-	-	4	-	-	4	-	-	
Tehama	3	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tulare	16	-	-	19	1	5.3	15	-	-	22	-	-	13	-	-	7	-	-	1	-	-	
Tuolumne	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ventura	26	-	-	35	-	-	35	-	-	14	-	-	25	-	-	27	-	-	20	1	5.0	
Yolo	7	-	-	4	-	-	7	1	14.3	7	-	-	3	-	-	3	-	-	3	-	-	
Yuba	5	-	-	3	1	33.3	-	-	-	1	-	-	1	-	-	1	-	-	4	1	25.0	

- Indicates zero cases or zero percent

\* Cases with resistance to at least isoniazid and rifampin

\*\* At the time of report preparation, initial drug susceptibility testing was 97 percent complete for culture positive cases reported in 2013. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

Table 56. Tuberculosis Cases by Outcome of Therapy (Tx): Reporting Jurisdictions in California, 2011

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)														
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
California	2,261	1,669	73.8	271	12.0	171	7.6	22	1.0	18	0.8	7	0.3	85	3.8	
Alameda	127	101	79.5	9	7.1	9	7.1	1	0.8	2	1.6	-	-	5	3.9	
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Berkeley	1	-	-	-	-	-	-	-	-	-	-	-	-	1	100.0	
Butte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calaveras	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Contra Costa	60	54	90.0	1	1.7	2	3.3	1	1.7	-	-	-	-	2	3.3	
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
El Dorado	3	2	66.7	-	-	-	-	-	-	-	-	-	-	1	33.3	
Fresno	43	32	74.4	2	4.7	3	7.0	-	-	2	4.7	3	7.0	1	2.3	
Glenn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Humboldt	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	
Imperial	26	6	23.1	4	15.4	1	3.8	1	3.8	4	15.4	-	-	10	38.5	
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kern	40	26	65.0	7	17.5	3	7.5	-	-	-	-	-	-	3	7.5	
Kings	6	5	83.3	1	16.7	-	-	-	-	-	-	-	-	-	-	
Lake	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Long Beach	26	20	76.9	3	11.5	2	7.7	-	-	-	-	-	-	-	1	3.8
Los Angeles	665	486	73.1	77	11.6	66	9.9	7	1.1	1	0.2	-	-	16	2.4	
Madera	12	11	91.7	-	-	1	8.3	-	-	-	-	-	-	-	-	
Marin	11	9	81.8	1	9.1	-	-	1	9.1	-	-	-	-	-	-	
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mendocino	2	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Merced	6	4	66.7	1	16.7	-	-	1	16.7	-	-	-	-	-	-	
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monterey	25	18	72.0	2	8.0	3	12.0	-	-	1	4.0	-	-	1	4.0	
Napa	6	6	100.0	-	-	-	-	-	-	-	-	-	-	-	-	

- Indicates zero cases or zero percent

Table 56. Tuberculosis Cases by Outcome of Therapy (Tx): Reporting Jurisdictions in California, 2011

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	202	144	71.3	25	12.4	20	9.9	1	0.5	3	1.5	1	0.5	8	4.0	-	-
Pasadena	5	3	60.0	1	20.0	-	-	1	20.0	-	-	-	-	-	-	-	-
Placer	5	3	60.0	-	-	1	20.0	-	-	1	20.0	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	65	57	87.7	1	1.5	4	6.2	-	-	1	1.5	-	-	2	3.1	-	-
Sacramento	73	56	76.7	5	6.8	7	9.6	-	-	-	-	-	-	5	6.8	-	-
San Benito	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	52	41	78.8	2	3.8	5	9.6	1	1.9	-	-	-	-	3	5.8	-	-
San Diego	259	186	71.8	46	17.8	17	6.6	2	0.8	-	-	2	0.8	6	2.3	-	-
San Francisco	106	81	76.4	19	17.9	6	5.7	-	-	-	-	-	-	-	-	-	-
San Joaquin	41	30	73.2	4	9.8	3	7.3	1	2.4	-	-	-	-	2	4.9	1	2.4
San Luis Obispo	6	5	83.3	1	16.7	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	58	36	62.1	9	15.5	7	12.1	1	1.7	1	1.7	-	-	4	6.9	-	-
Santa Barbara	21	14	66.7	2	9.5	1	4.8	1	4.8	1	4.8	-	-	2	9.5	-	-
Santa Clara	176	131	74.4	25	14.2	5	2.8	2	1.1	-	-	-	-	11	6.3	2	1.1
Santa Cruz	10	8	80.0	2	20.0	-	-	-	-	-	-	-	-	-	-	-	-
Shasta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	32	26	81.3	4	12.5	1	3.1	-	-	1	3.1	-	-	-	-	-	-
Sonoma	11	9	81.8	1	9.1	-	-	-	-	-	-	-	-	-	-	1	9.1
Stanislaus	8	4	50.0	3	37.5	-	-	-	-	-	-	-	-	1	12.5	-	-
Sutter	6	4	66.7	-	-	2	33.3	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	19	15	78.9	2	10.5	2	10.5	-	-	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	35	23	65.7	10	28.6	-	-	-	-	-	-	1	2.9	1	2.9	-	-
Yolo	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent

**Table 57. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated\*: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)														
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
California	2,222	1,669	75.1	239	10.8	170	7.7	22	1.0	18	0.8	7	0.3	81	3.6	
Alameda	127	101	79.5	9	7.1	9	7.1	1	0.8	2	1.6	-	-	5	3.9	
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Berkeley	1	-	-	-	-	-	-	-	-	-	-	-	-	1	100.0	
Butte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calaveras	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Contra Costa	59	54	91.5	-	-	2	3.4	1	1.7	-	-	-	-	2	3.4	
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
El Dorado	2	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Fresno	43	32	74.4	2	4.7	3	7.0	-	-	2	4.7	3	7.0	1	2.3	
Glenn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Humboldt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Imperial	26	6	23.1	4	15.4	1	3.8	1	3.8	4	15.4	-	-	10	38.5	
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kern	39	26	66.7	6	15.4	3	7.7	-	-	-	-	-	-	3	7.7	
Kings	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Lake	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Long Beach	26	20	76.9	3	11.5	2	7.7	-	-	-	-	-	-	-	1	3.8
Los Angeles	653	486	74.4	68	10.4	65	10.0	7	1.1	1	0.2	-	-	16	2.5	
Madera	12	11	91.7	-	-	1	8.3	-	-	-	-	-	-	-	-	
Marin	11	9	81.8	1	9.1	-	-	1	9.1	-	-	-	-	-	-	
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mendocino	2	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	
Merced	6	4	66.7	1	16.7	-	-	1	16.7	-	-	-	-	-	-	
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monterey	25	18	72.0	2	8.0	3	12.0	-	-	1	4.0	-	-	1	4.0	
Napa	6	6	100.0	-	-	-	-	-	-	-	-	-	-	-	-	

\* Indicates zero cases or zero percent

\* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease

**Table 57. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated\*: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	197	144	73.1	20	10.2	20	10.2	1	0.5	3	1.5	1	0.5	8	4.1	-	-
Pasadena	5	3	60.0	1	20.0	-	-	1	20.0	-	-	-	-	-	-	-	-
Placer	5	3	60.0	-	-	1	20.0	-	-	1	20.0	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	64	57	89.1	1	1.6	4	6.3	-	-	1	1.6	-	-	1	1.6	-	-
Sacramento	73	56	76.7	5	6.8	7	9.6	-	-	-	-	-	-	5	6.8	-	-
San Benito	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	51	41	80.4	1	2.0	5	9.8	1	2.0	-	-	-	-	3	5.9	-	-
San Diego	255	186	72.9	42	16.5	17	6.7	2	0.8	-	-	2	0.8	6	2.4	-	-
San Francisco	106	81	76.4	19	17.9	6	5.7	-	-	-	-	-	-	-	-	-	-
San Joaquin	40	30	75.0	3	7.5	3	7.5	1	2.5	-	-	-	-	2	5.0	1	2.5
San Luis Obispo	6	5	83.3	1	16.7	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	54	36	66.7	5	9.3	7	13.0	1	1.9	1	1.9	-	-	4	7.4	-	-
Santa Barbara	20	14	70.0	2	10.0	1	5.0	1	5.0	1	5.0	-	-	1	5.0	-	-
Santa Clara	171	131	76.6	21	12.3	5	2.9	2	1.2	-	-	-	-	10	5.8	2	1.2
Santa Cruz	10	8	80.0	2	20.0	-	-	-	-	-	-	-	-	-	-	-	-
Shasta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	32	26	81.3	4	12.5	1	3.1	-	-	1	3.1	-	-	-	-	-	-
Sonoma	11	9	81.8	1	9.1	-	-	-	-	-	-	-	-	-	-	1	9.1
Stanislaus	8	4	50.0	3	37.5	-	-	-	-	-	-	-	-	1	12.5	-	-
Sutter	6	4	66.7	-	-	2	33.3	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	19	15	78.9	2	10.5	2	10.5	-	-	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	35	23	65.7	10	28.6	-	-	-	-	-	-	1	2.9	1	2.9	-	-
Yolo	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Indicates zero cases or zero percent

\* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease

**Table 58. Outcome in Tuberculosis Cases for Whom Greater than One Year of Therapy (Tx) was Indicated\*: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	39	-	-	32	82.1	1	2.6	-	-	-	-	-	-	4	10.3	2	5.1
Alameda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	-	-	-	-	-	-	-	-	-	-	1	100.0	-	-
Fresno	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glenn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Humboldt	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Kings	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Los Angeles	12	-	-	9	75.0	1	8.3	-	-	-	-	-	-	-	-	2	16.7
Madera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merced	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Napa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent

\* Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease

**Table 58. Outcome in Tuberculosis Cases for Whom Greater than One Year of Therapy (Tx) was Indicated\*: Reporting Jurisdictions in California, 2011**

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	5	-	-	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Pasadena	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Placer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	1	-	-	-	-	-	-	-	-	-	-	-	-	1	100.0	-	-
Sacramento	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Benito	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
San Diego	4	-	-	4	100.0	-	-	-	-	-	-	-	-	-	-	-	-
San Francisco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Joaquin	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
San Luis Obispo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	4	-	-	4	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Santa Barbara	1	-	-	-	-	-	-	-	-	-	-	-	1	100.0	-	-	-
Santa Clara	5	-	-	4	80.0	-	-	-	-	-	-	-	1	20.0	-	-	-
Santa Cruz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shasta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sonoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stanislaus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sutter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yolo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent

\* Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease

**Table 59.Tuberculosis Cases by Outcome of Therapy (Tx) and Risk Factor for Tuberculosis: California, 2011**

	Cases Starting Therapy	Outcome (Reason Therapy Stopped)													
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	2,261	1,669	73.8	271	12.0	171	7.6	22	1.0	18	0.8	7	0.3	85	3.8
AIDS															
No	2,166	1,618	74.7	240	11.1	167	7.7	20	0.9	15	0.7	6	0.3	82	3.8
Yes	95	51	53.7	31	32.6	4	4.2	2	2.1	3	3.2	1	1.1	3	3.2
Diagnosed in Correctional Facility															
No	2,172	1,614	74.3	262	12.1	167	7.7	17	0.8	17	0.8	7	0.3	71	3.3
Yes	73	43	58.9	8	11.0	2	2.7	5	6.8	-	-	-	-	14	19.2
Federal Prison	11	6	54.5	1	9.1	-	-	-	-	-	-	-	-	4	36.4
State Prison	14	12	85.7	2	14.3	-	-	-	-	-	-	-	-	-	-
Local Jail	34	20	58.8	3	8.8	2	5.9	3	8.8	-	-	-	-	5	14.7
Other/Unknown	14	5	35.7	2	14.3	-	-	2	14.3	-	-	-	-	5	35.7
Unknown	16	12	75.0	1	6.3	2	12.5	-	-	1	6.3	-	-	-	-
Diagnosed in Long-term Care Facility															
No	2,212	1,647	74.5	265	12.0	153	6.9	22	1.0	17	0.8	6	0.3	85	3.8
Yes	37	13	35.1	5	13.5	17	45.9	-	-	-	-	1	2.7	-	-
Unknown	12	9	75.0	1	8.3	-	-	1	8.3	-	-	-	-	-	-
Excess Alcohol Use															
No	2,039	1,517	74.4	246	12.1	148	7.3	17	0.8	16	0.8	7	0.3	71	3.5
Yes	201	141	70.1	25	12.4	16	8.0	4	2.0	2	1.0	-	-	12	6.0
Unknown	21	11	52.4	-	-	7	33.3	1	4.8	-	-	-	-	2	9.5
Homeless															
No	2,127	1,574	74.0	256	12.0	159	7.5	19	0.9	17	0.8	7	0.3	77	3.6
Yes	116	85	73.3	13	11.2	7	6.0	3	2.6	-	-	-	-	8	6.9
Unknown	18	10	55.6	2	11.1	5	27.8	-	-	1	5.6	-	-	-	-
Injecting Drug Use															
No	2,215	1,646	74.3	263	11.9	161	7.3	22	1.0	17	0.8	7	0.3	81	3.7
Yes	20	10	50.0	7	35.0	1	5.0	-	-	-	-	-	-	2	10.0
Unknown	26	13	50.0	1	3.8	9	34.6	-	-	1	3.8	-	-	2	7.7
Non-Injecting Drug Use															
No	2,121	1,574	74.2	259	12.2	155	7.3	19	0.9	16	0.8	7	0.3	73	3.4
Yes	116	82	70.7	12	10.3	7	6.0	3	2.6	2	1.7	-	-	10	8.6
Unknown	24	13	54.2	-	-	9	37.5	-	-	-	-	-	-	2	8.3

- Indicates zero cases or zero percent

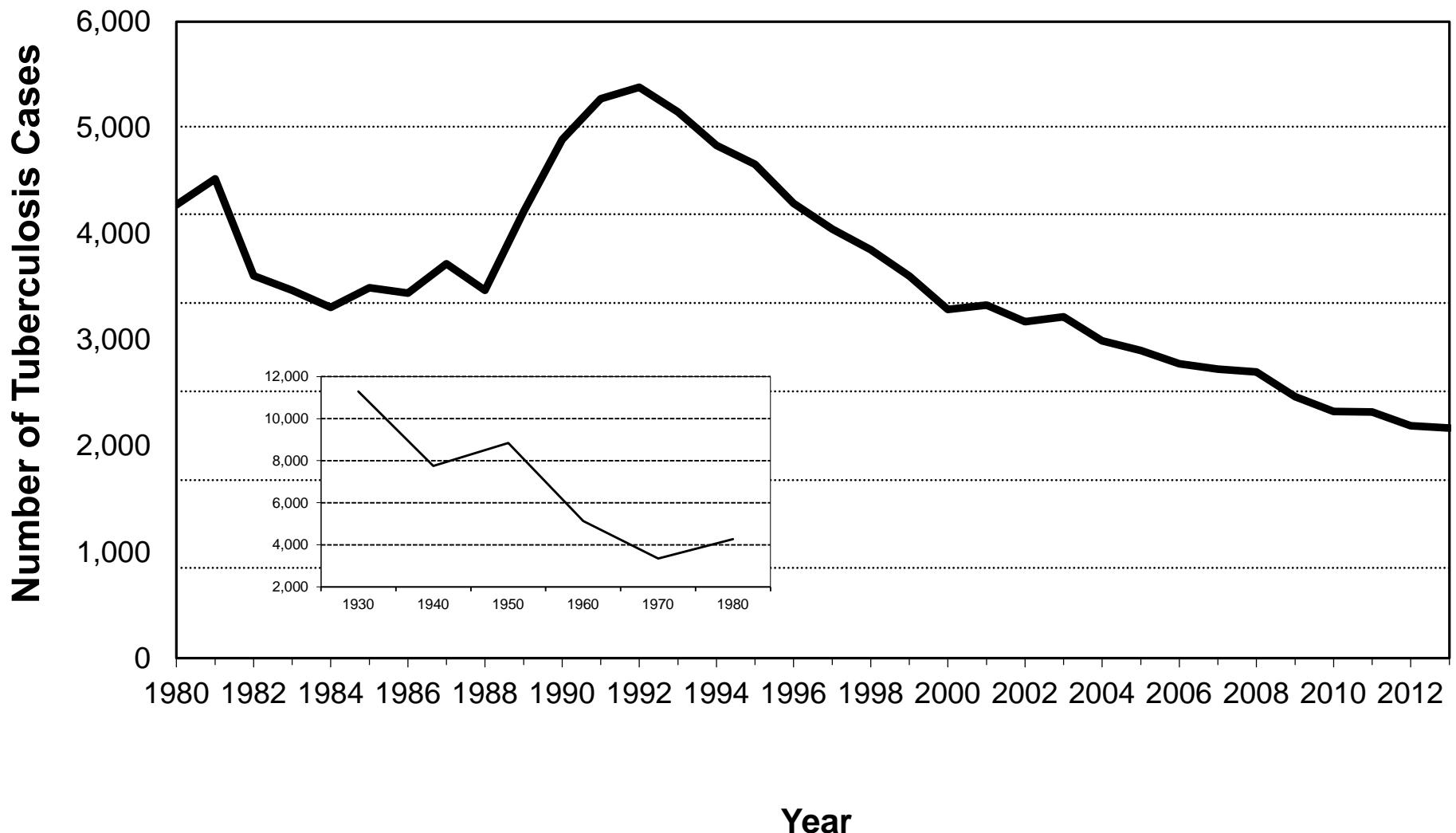
**Table 60. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated\*, by Risk Factor for Tuberculosis: California, 2011**

	Cases Starting Therapy	Outcome (Reason Therapy Stopped)													
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Died		Lost		Refused		Adverse Tx Effect		Other/Unknown	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	2,222	1,669	75.1	239	10.8	170	7.7	22	1.0	18	0.8	7	0.3	81	3.6
AIDS														16	0.7
No	2,127	1,618	76.1	208	9.8	166	7.8	20	0.9	15	0.7	6	0.3	78	3.7
Yes	95	51	53.7	31	32.6	4	4.2	2	2.1	3	3.2	1	1.1	3	3.2
Diagnosed in Correctional Facility															
No	2,134	1,614	75.6	231	10.8	166	7.8	17	0.8	17	0.8	7	0.3	67	3.1
Yes	72	43	59.7	7	9.7	2	2.8	5	6.9	-	-	-	-	14	19.4
Federal Prison	11	6	54.5	1	9.1	-	-	-	-	-	-	-	-	4	36.4
State Prison	13	12	92.3	1	7.7	-	-	-	-	-	-	-	-	-	-
Local Jail	34	20	58.8	3	8.8	2	5.9	3	8.8	-	-	-	-	5	14.7
Other/Unknown	14	5	35.7	2	14.3	-	-	2	14.3	-	-	-	-	5	35.7
Unknown	16	12	75.0	1	6.3	2	12.5	-	-	1	6.3	-	-	-	-
Diagnosed in Long-term Care Facility															
No	2,173	1,647	75.8	233	10.7	152	7.0	22	1.0	17	0.8	6	0.3	81	3.7
Yes	37	13	35.1	5	13.5	17	45.9	-	-	-	-	1	2.7	-	-
Unknown	12	9	75.0	1	8.3	1	8.3	-	-	1	8.3	-	-	-	-
Excess Alcohol Use															
No	2,002	1,517	75.8	215	10.7	147	7.3	17	0.8	16	0.8	7	0.3	68	3.4
Yes	199	141	70.9	24	12.1	16	8.0	4	2.0	2	1.0	-	-	11	5.5
Unknown	21	11	52.4	-	-	7	33.3	1	4.8	-	-	-	-	2	9.5
Homeless															
No	2,088	1,574	75.4	224	10.7	158	7.6	19	0.9	17	0.8	7	0.3	73	3.5
Yes	116	85	73.3	13	11.2	7	6.0	3	2.6	-	-	-	-	8	6.9
Unknown	18	10	55.6	2	11.1	5	27.8	-	-	1	5.6	-	-	-	-
Injecting Drug Use															
No	2,176	1,646	75.6	231	10.6	160	7.4	22	1.0	17	0.8	7	0.3	77	3.5
Yes	20	10	50.0	7	35.0	1	5.0	-	-	-	-	-	-	2	10.0
Unknown	26	13	50.0	1	3.8	9	34.6	-	-	1	3.8	-	-	2	7.7
Non-Injecting Drug Use															
No	2,084	1,574	75.5	229	11.0	154	7.4	19	0.9	16	0.8	7	0.3	69	3.3
Yes	114	82	71.9	10	8.8	7	6.1	3	2.6	2	1.8	-	-	10	8.8
Unknown	24	13	54.2	-	-	9	37.5	-	-	-	-	-	-	2	8.3

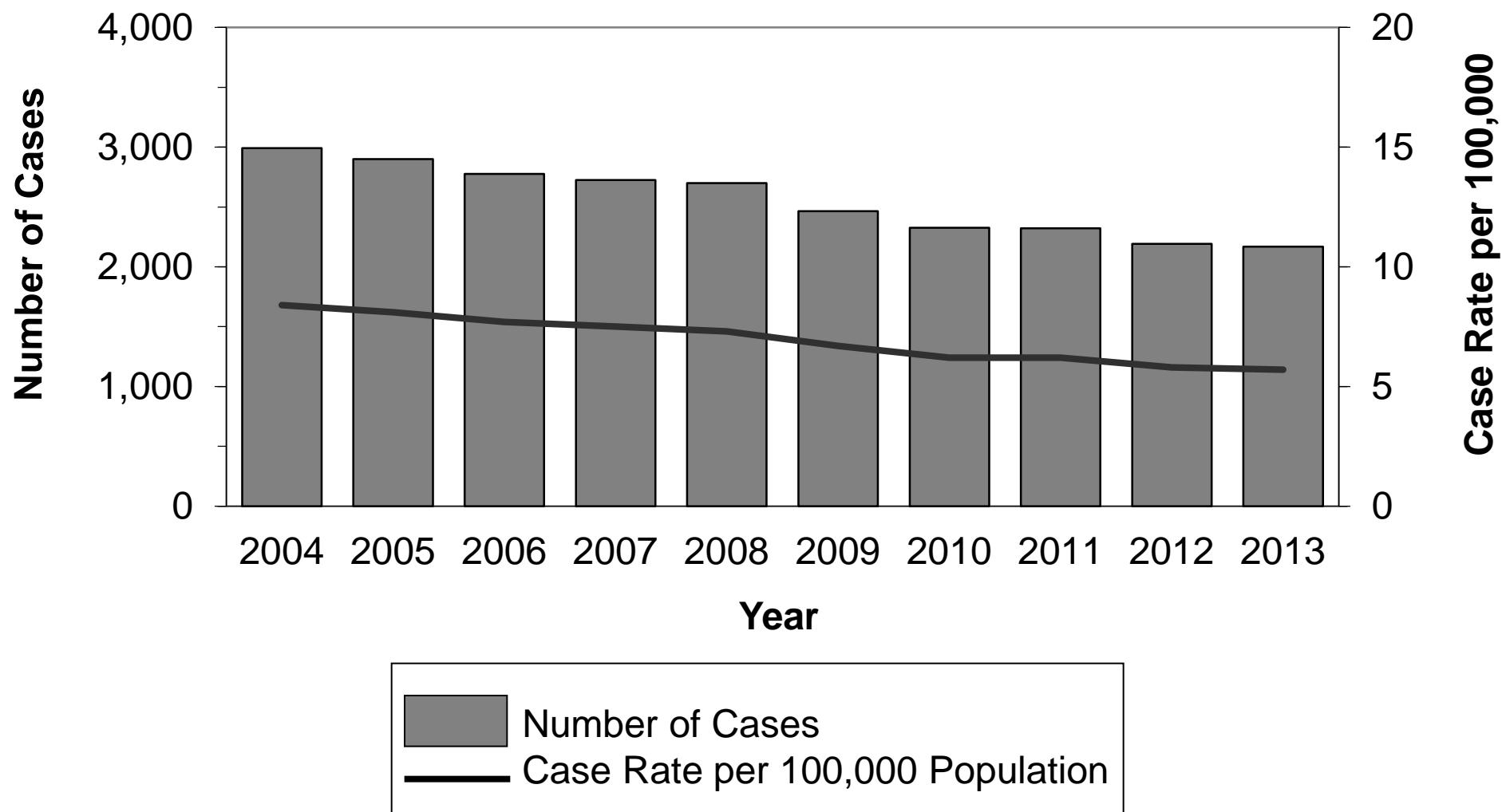
- Indicates zero cases or zero percent

\* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease

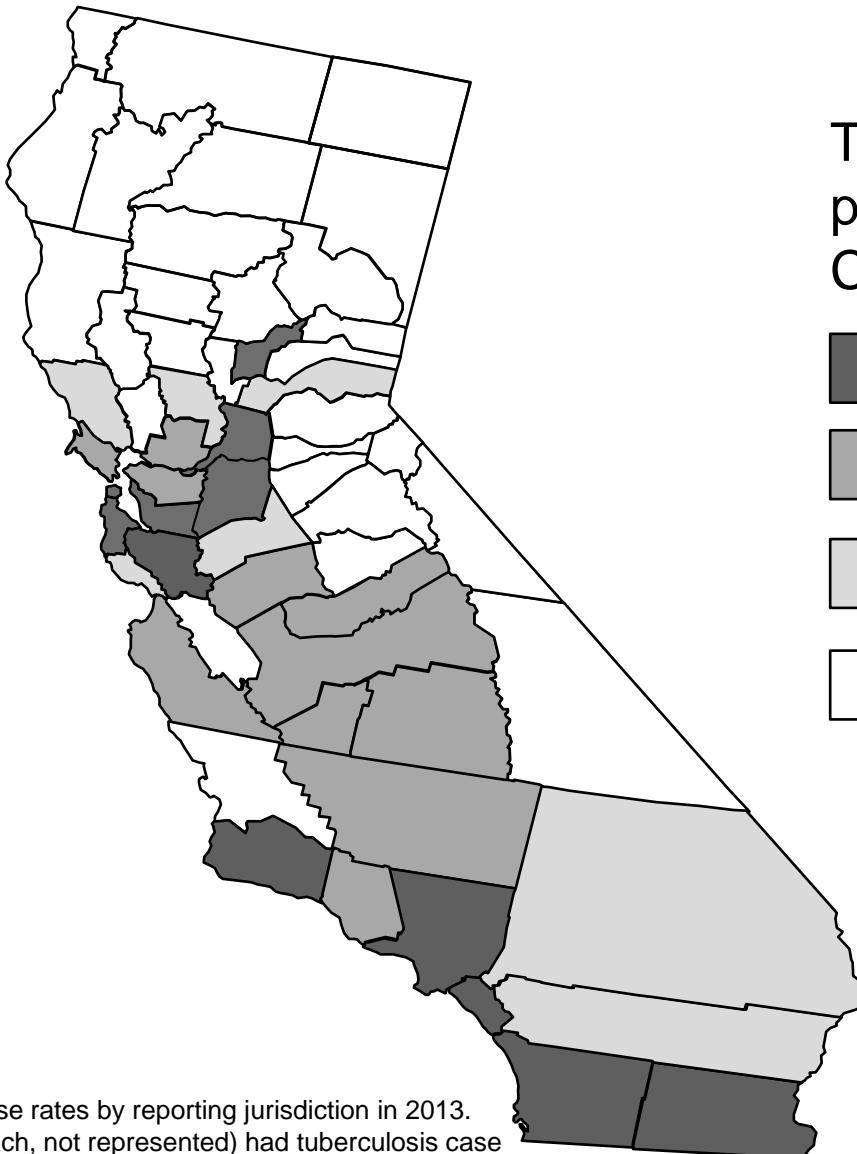
# Figure 1. Number of Tuberculosis Cases: California, 1930-2013



## Figure 2. Number of Tuberculosis Cases and Case Rates: California, 2004-2013



# Figure 3. Geographic Distribution of Tuberculosis in California, 2013



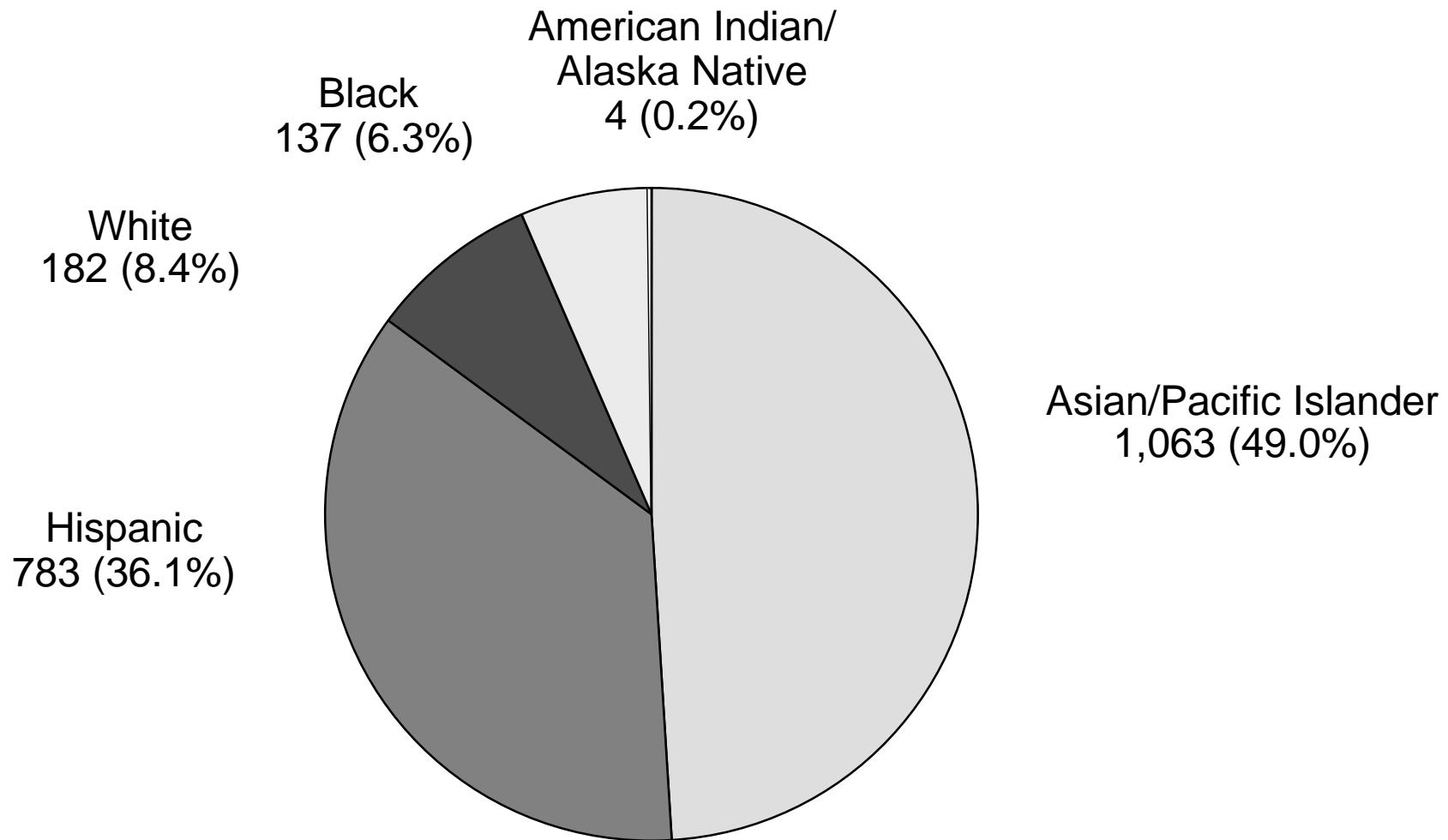
Tuberculosis Case Rates  
per 100,000 Population:  
California, 2013

- > 5.7 (state average)
- 3.0- 5.7
- < 3.0 (national average)
- < 5 cases

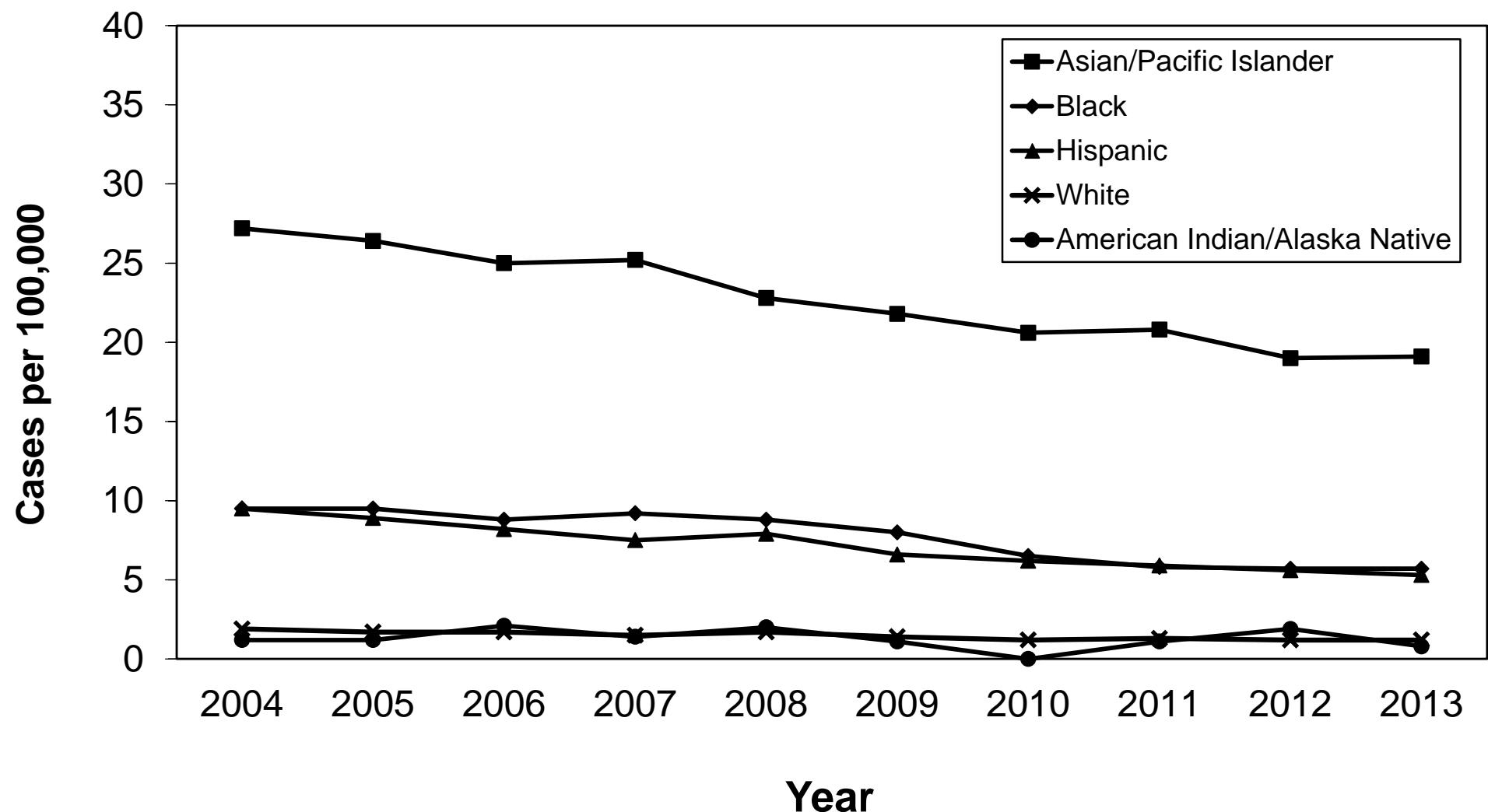
78

Note: The map illustrates tuberculosis case rates by reporting jurisdiction in 2013. Thirteen jurisdictions (including Long Beach, not represented) had tuberculosis case rates above the state average of 5.7 cases per 100,000 population. Seven jurisdictions had tuberculosis case rates below the 2013 national rate of 3.0 per 100,000 population. Thirteen jurisdictions (including Pasadena and Berkeley, not represented) had case rates between the national and state rates (3.0 to 5.7 cases per 100,000 population). Case rates were not calculated for 28 jurisdictions because there were fewer than five cases in these areas.

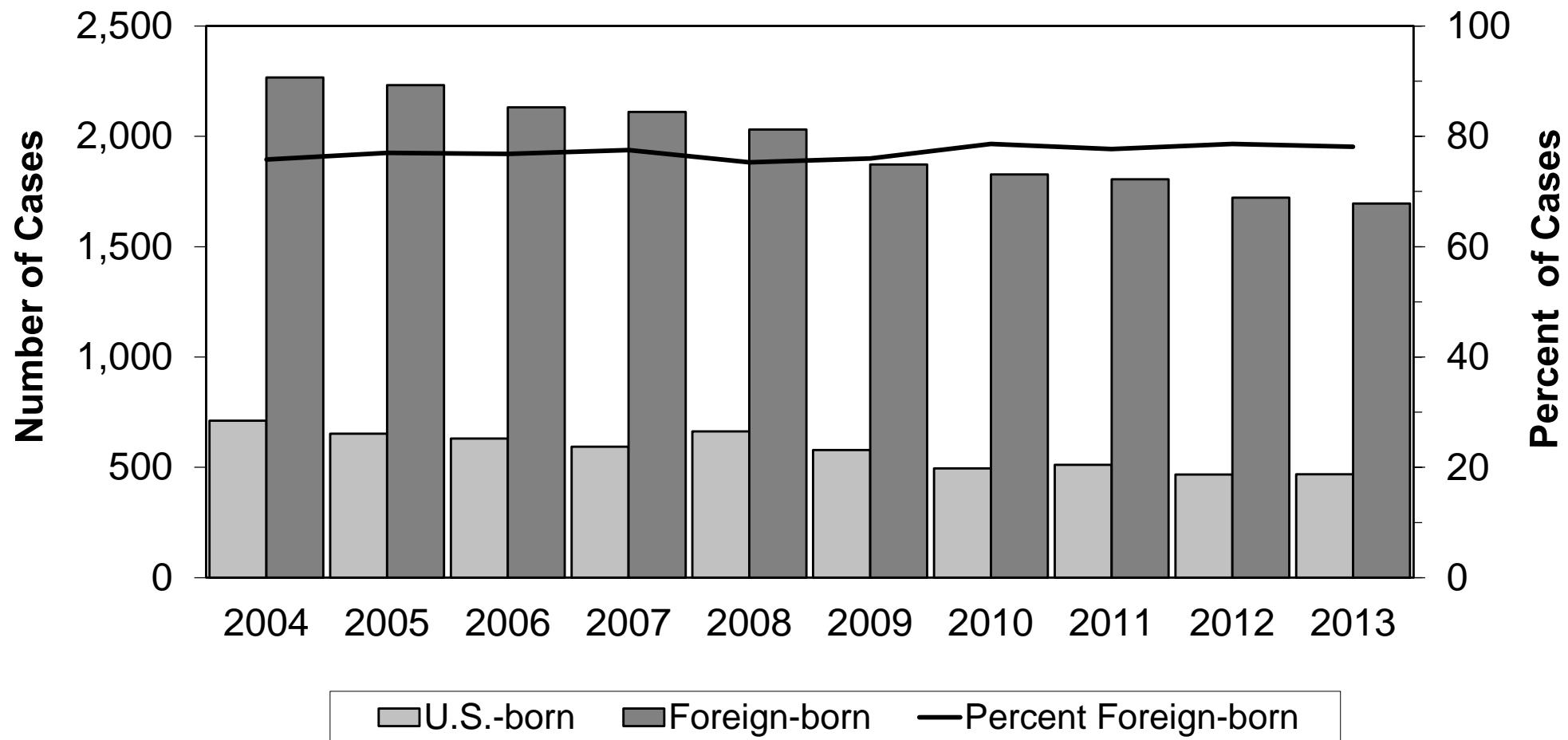
# Figure 4. Tuberculosis Cases by Race/Ethnicity: California, 2013



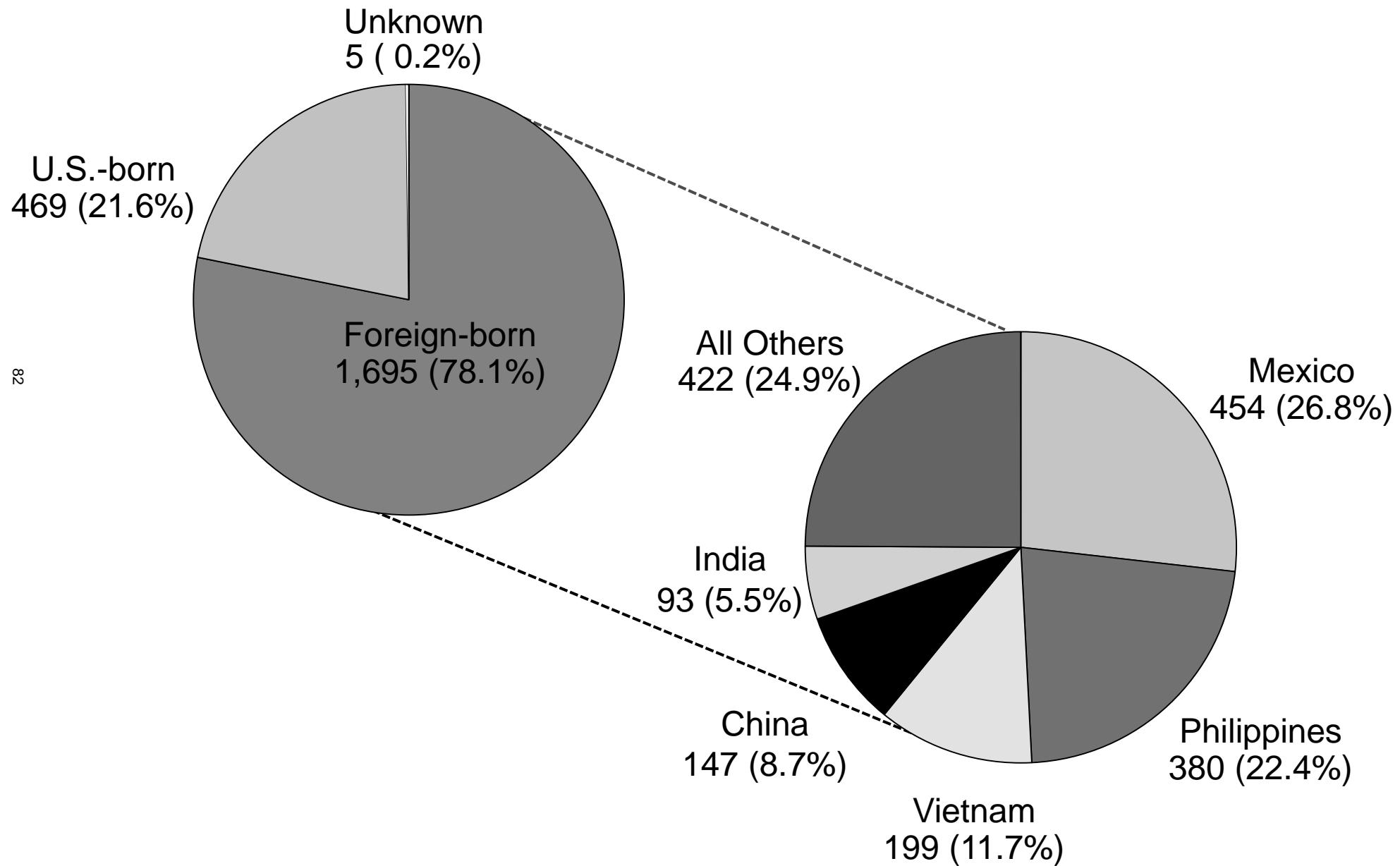
# Figure 5. Tuberculosis Case Rates by Race/Ethnicity: California, 2004-2013



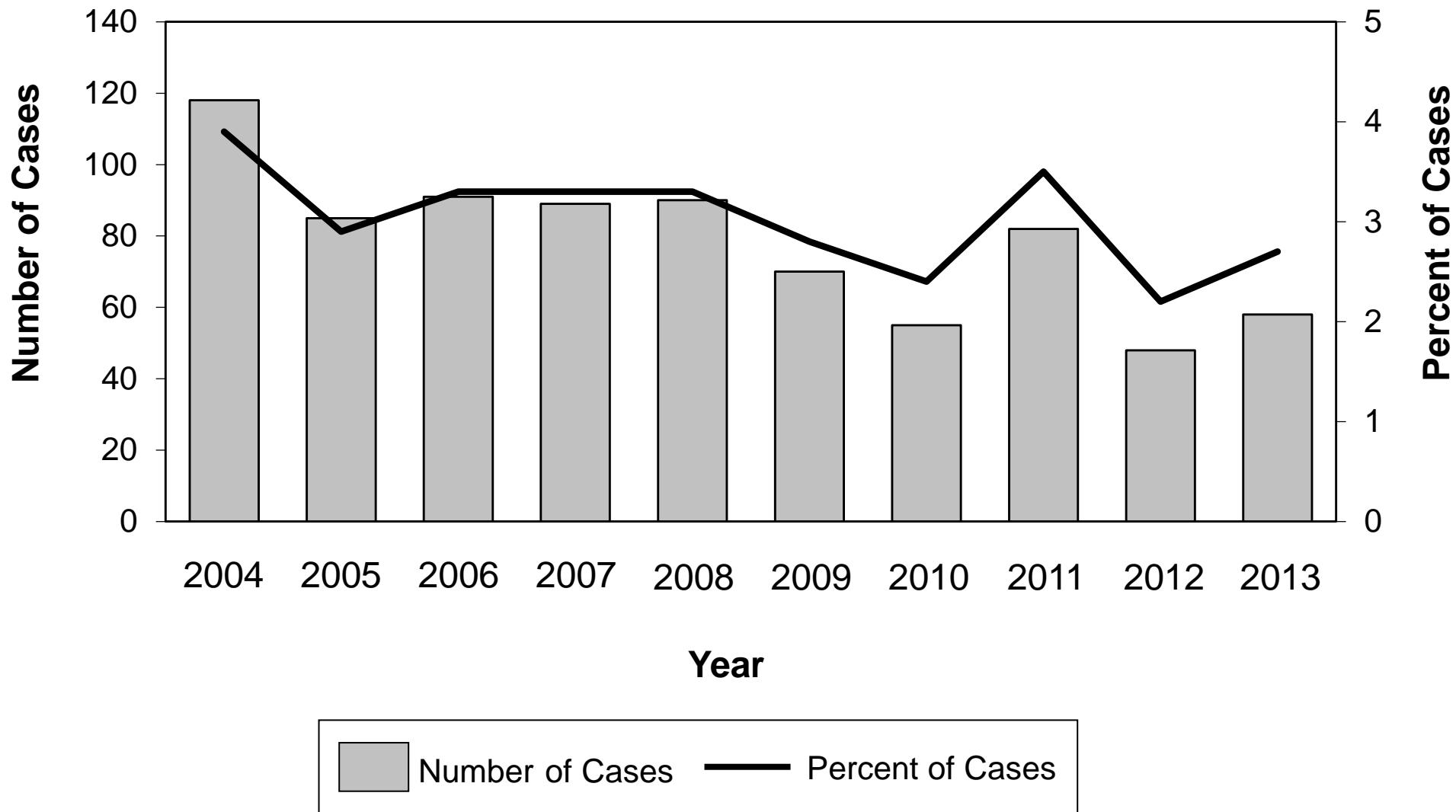
# Figure 6. Tuberculosis Cases in Foreign-born and U.S.-born Persons: California, 2004-2013



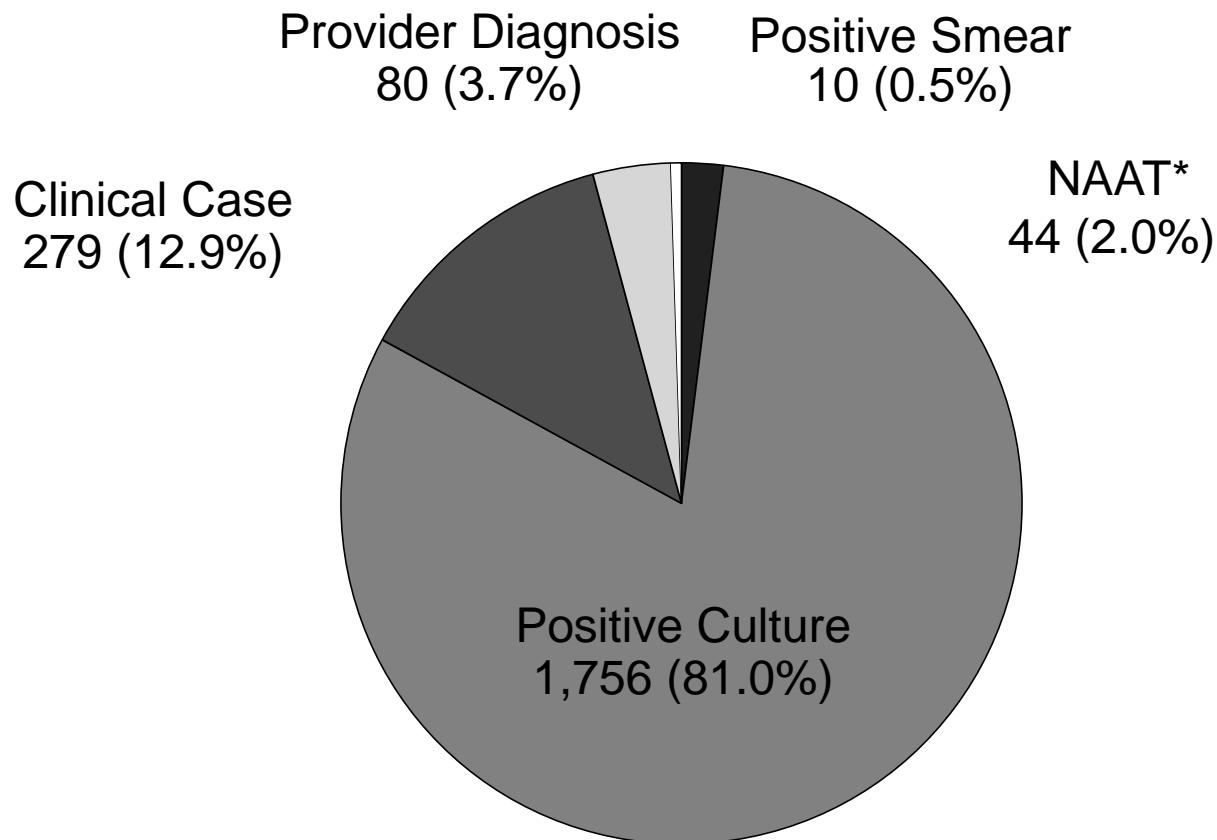
# Figure 7. Tuberculosis Cases by Country of Origin: California, 2013



# Figure 8. Tuberculosis Cases in Persons 0-4 Years of Age: California, 2004-2013

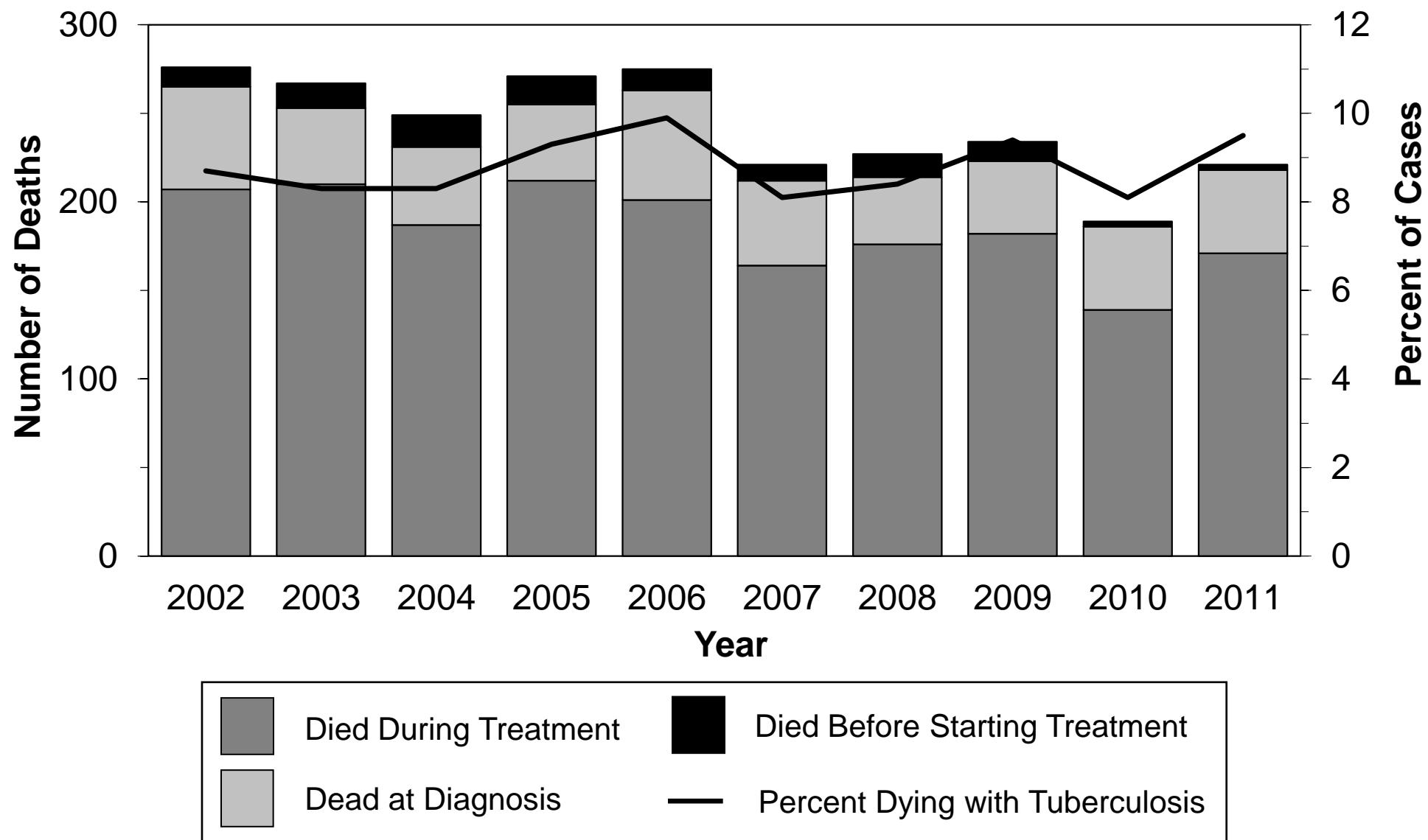


# Figure 9. Tuberculosis Cases by Verification Criteria: California, 2013

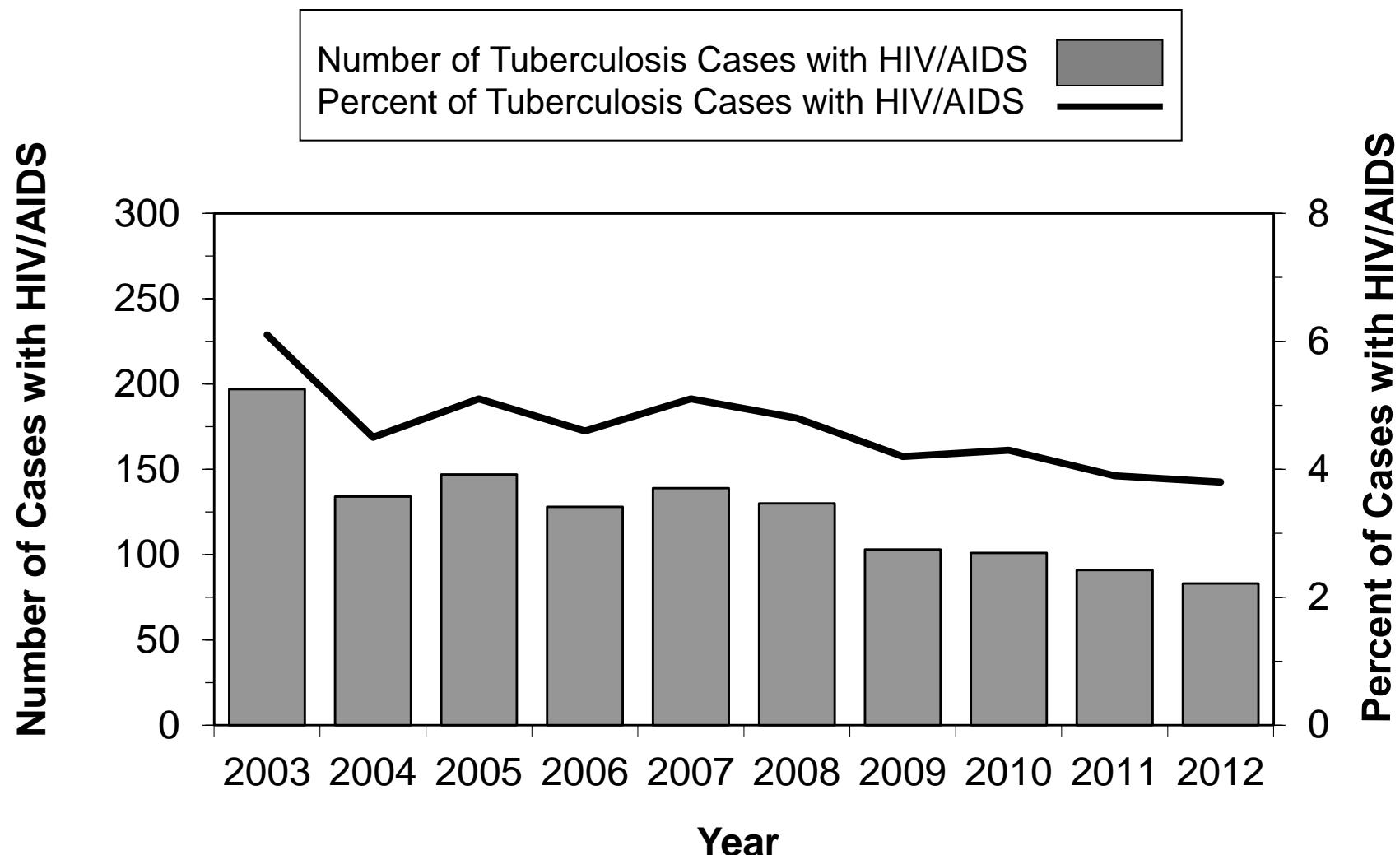


\*NAAT= Nucleic Acid Amplification Test

# Figure 10. Deaths in Persons with Tuberculosis: California, 2002-2011

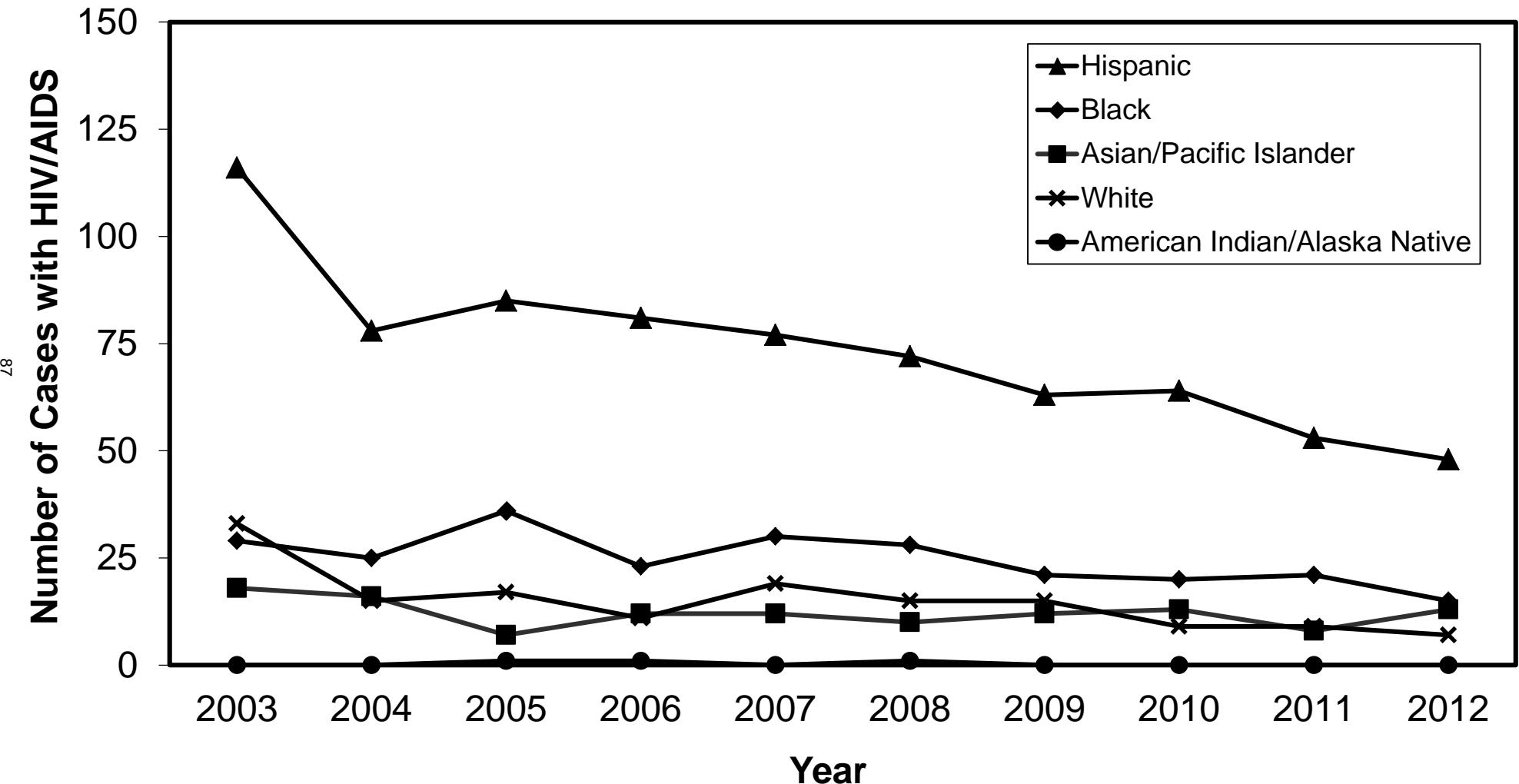


# Figure 11. Tuberculosis Cases by HIV/AIDS Diagnosis\*: California, 2003-2012



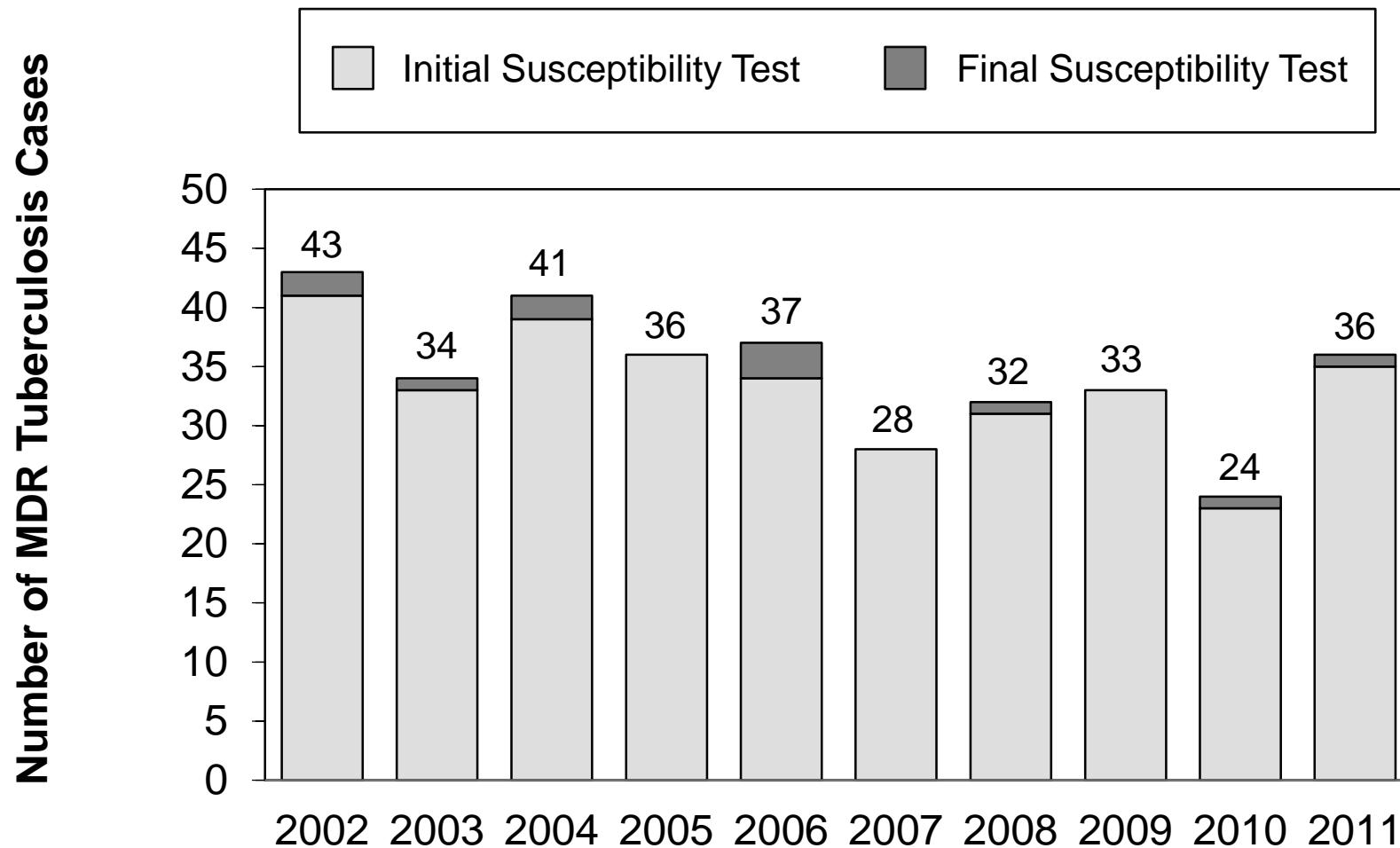
\* Match found in HIV/AIDS Registry, California Office of AIDS

# Figure 12. HIV/AIDS-associated Tuberculosis\* by Race/Ethnicity: California, 2003-2012



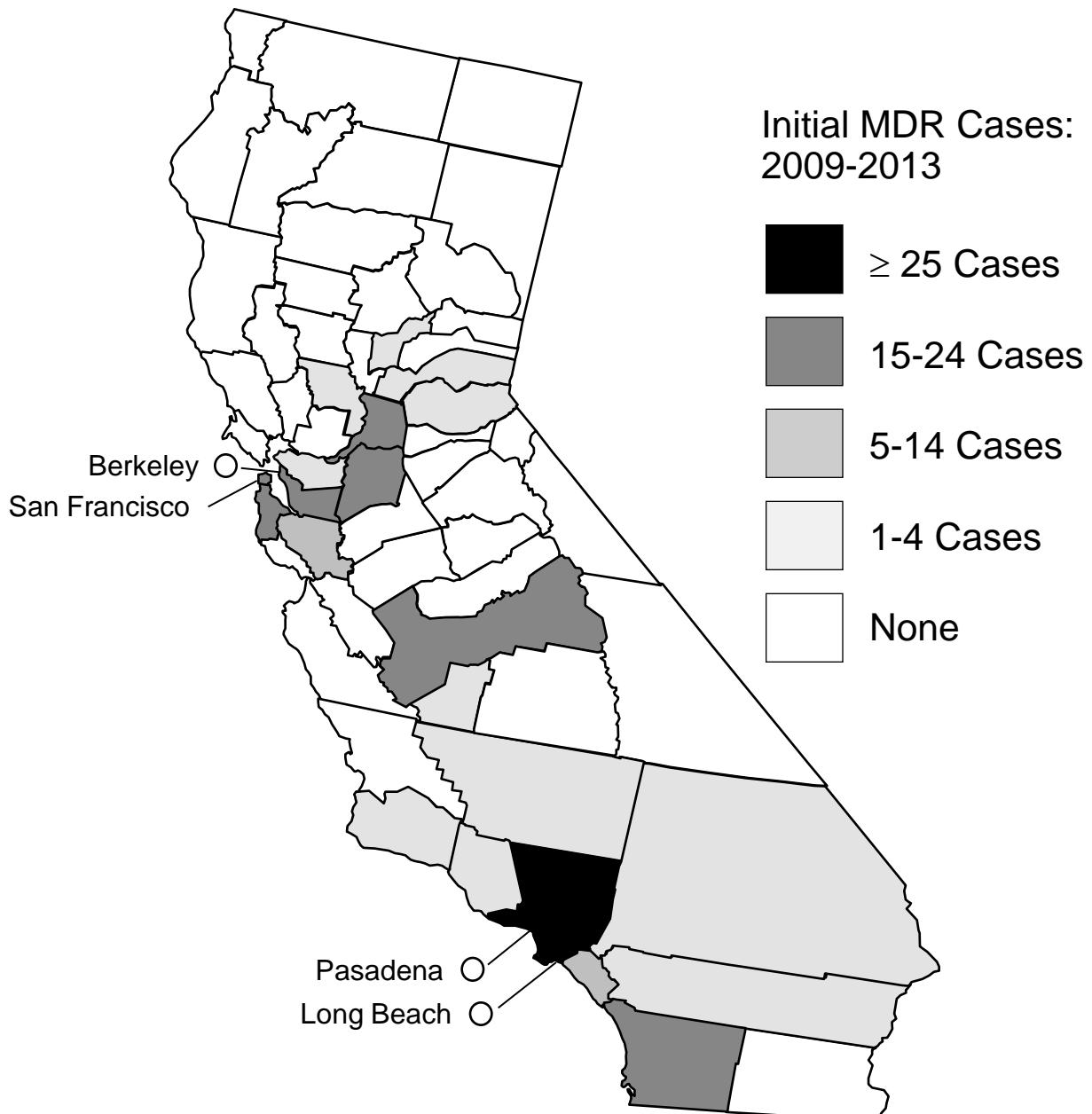
\* Match found in HIV/AIDS Registry, California Office of AIDS

# Figure 13. Tuberculosis Cases with Multidrug Resistance (MDR) on Initial or Final Drug Susceptibility Testing\*: California, 2002-2011



\*Cases with resistance to at least isoniazid and rifampin reported on the Initial Drug Susceptibility Report (Follow-up 1) or on the Case Completion Report (Follow-up 2)

# Figure 14. Tuberculosis Cases with Initial Multidrug Resistance (MDR)\*: California, 2009-2013



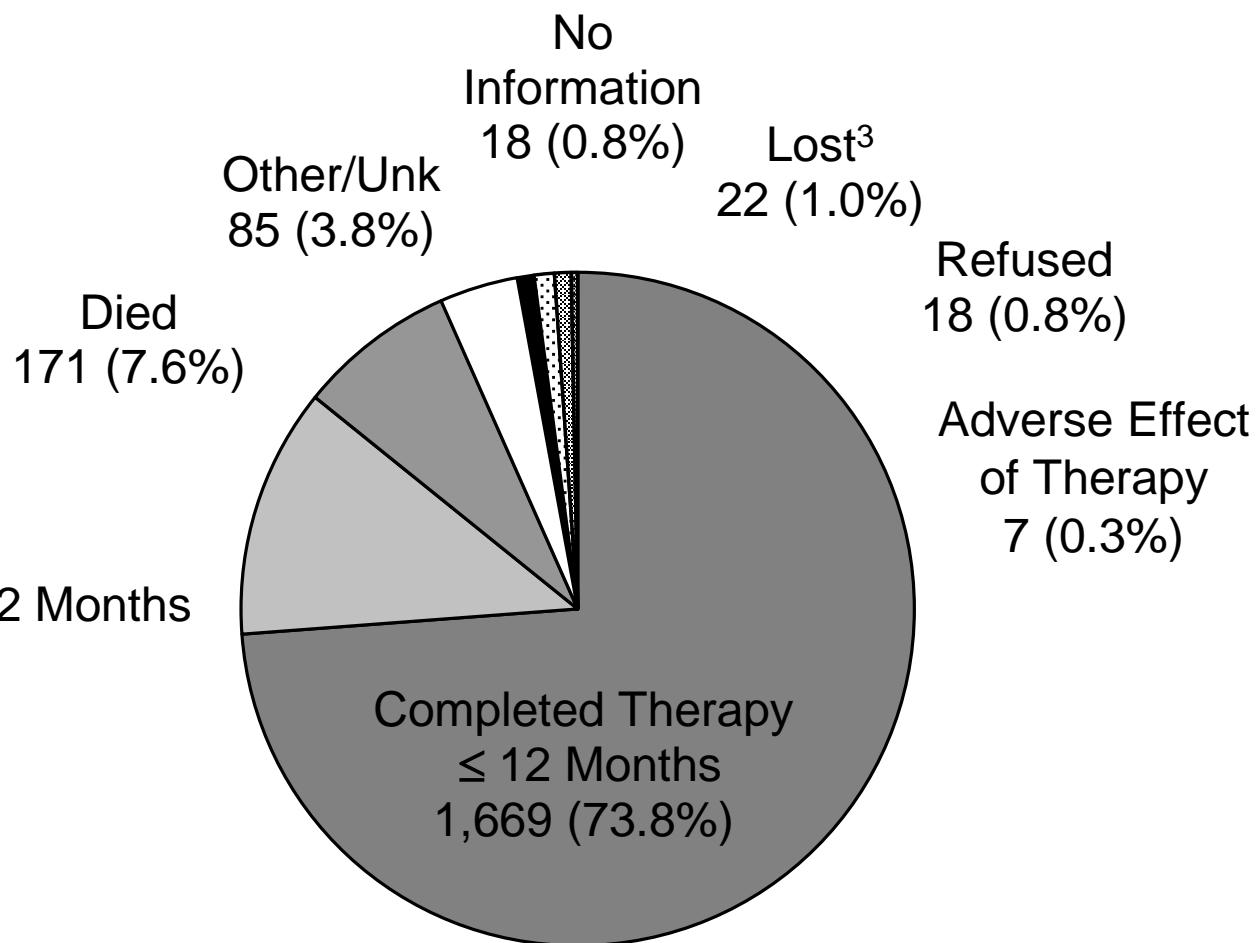
\*Cases with initial drug resistance to at least isoniazid and rifampin

California Department of Public Health, Tuberculosis Control Branch

# Figure 15. Tuberculosis Cases<sup>1</sup> by Outcome of Therapy: California, 2011

06

Completed Therapy >12 Months  
271 (12.0%)



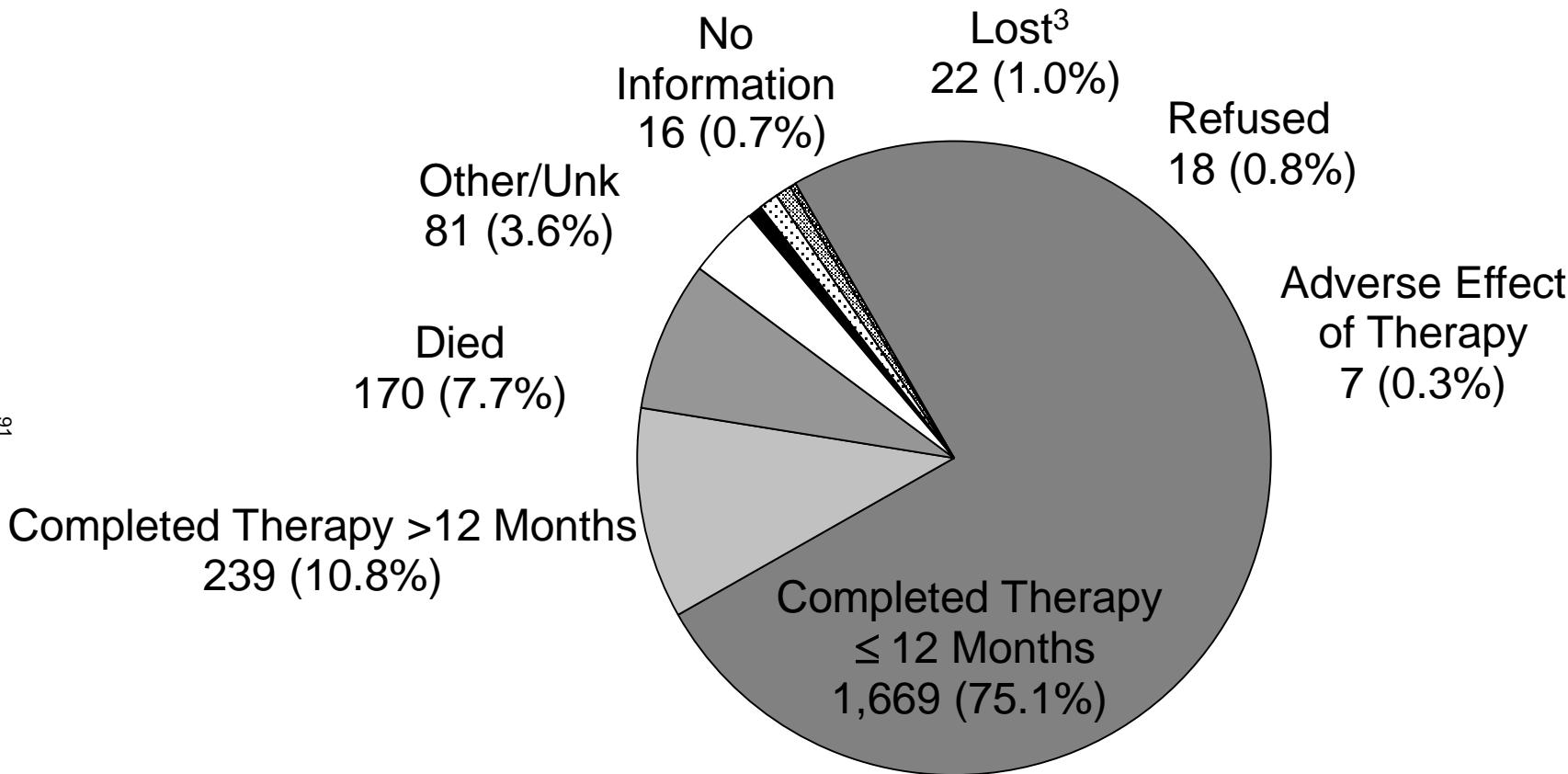
<sup>1</sup> Patient was alive at diagnosis and started on an initial drug regimen of two or more drugs.

<sup>2</sup> Patient moved to another jurisdiction with a known forwarding address before treatment was completed; final outcome not available.

<sup>3</sup> Patient could not be located prior to the completion of treatment.

# Figure 16. Outcome in Tuberculosis Cases for Whom One Year or Less of Treatment was Indicated<sup>1</sup>: California, 2011

16

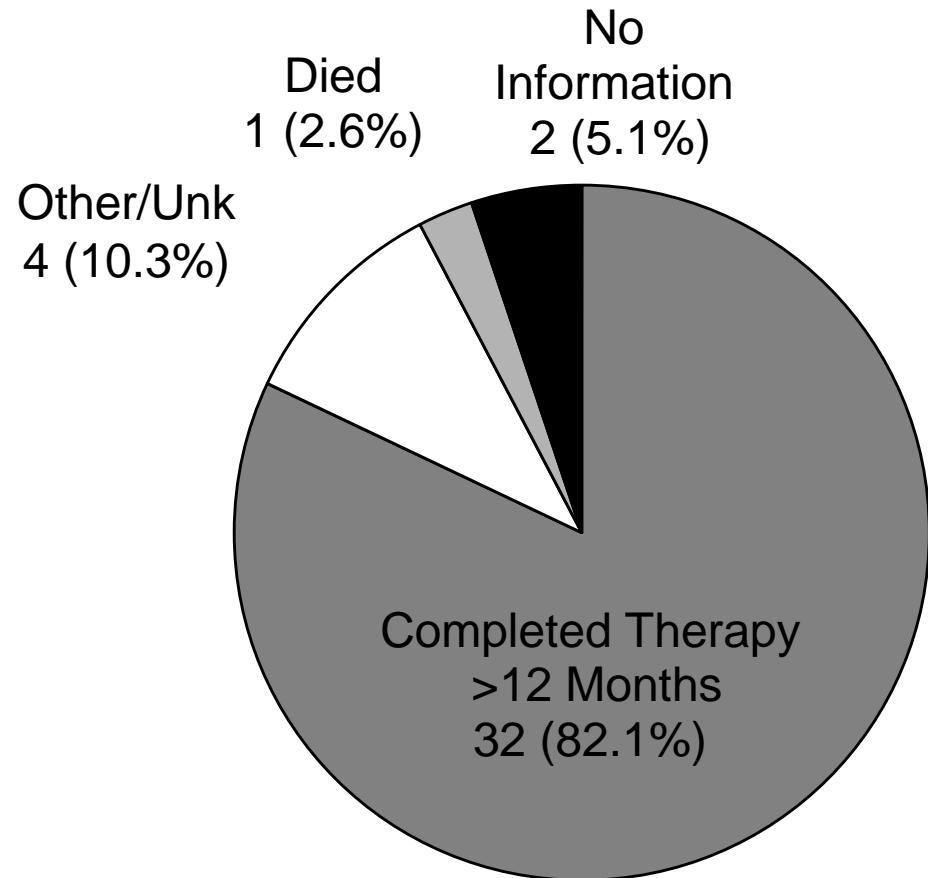


<sup>1</sup> Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.

<sup>2</sup> Patient moved to another jurisdiction with a known forwarding address before treatment was completed; final outcome not available.

<sup>3</sup> Patient could not be located prior to the completion of treatment.

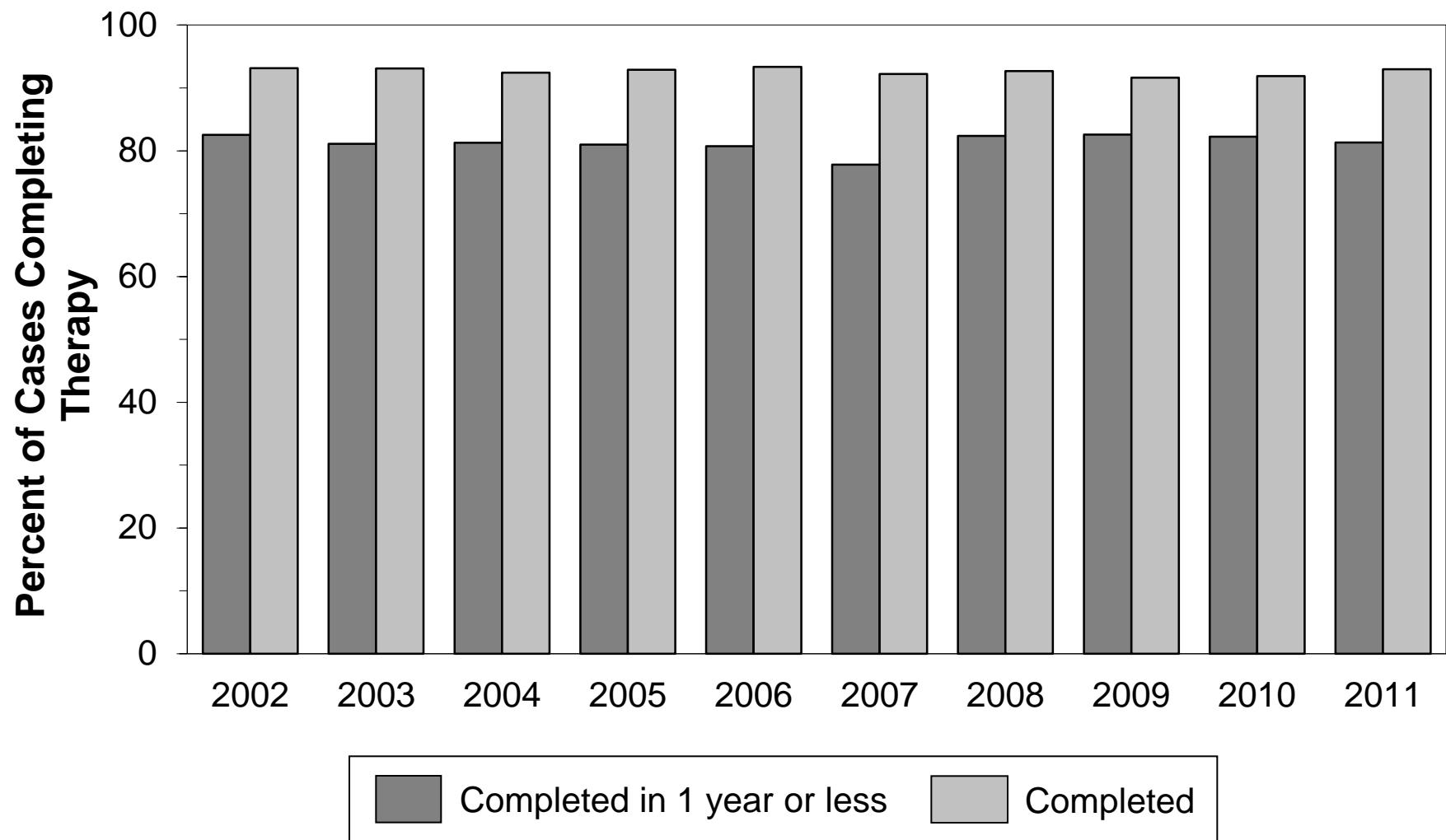
# Figure 17. Outcome in Tuberculosis Cases for Whom Greater than One Year of Treatment was Indicated<sup>1</sup>: California, 2011



<sup>1</sup> Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.

<sup>2</sup> Patient moved to another jurisdiction with a known forwarding address before treatment was completed; final outcome not available.

# Figure 18. Completion of Tuberculosis Therapy: California, 2002-2011



Note: Excludes cases with rifampin resistant disease, cases with meningeal disease, cases less than 15 years of age with disseminated tuberculosis disease, and those that died during treatment.

## **Technical Notes**

### **Reporting Jurisdictions**

California has 61 jurisdictions that report TB morbidity. There are 58 counties and the cities of Berkeley, Long Beach, and Pasadena. Reports from Alameda County exclude TB cases from the city of Berkeley, and reports from Los Angeles County exclude cases from the cities of Long Beach and Pasadena. Since 1993, local health jurisdictions have used the Report of Verified Case of Tuberculosis (RVCT) form to report TB cases; an expanded and updated version of this form was implemented in California in 2010. California cleans, compiles and analyzes these data for state and local use, and also reports these data to the CDC.

### **TB Cases**

A TB case submitted to the TBCB Registry by January 15, 2014 was included as a 2013 case in this report if the case was confirmed as active TB between January 1 and December 31, 2013. After reporting the case, a jurisdiction may subsequently decide that a reported case did not have TB. Also, a few cases may be reported after the submission deadline. These changes will be reflected in future reports. Therefore, the total number of TB cases counted in a given year may change, usually by a small number of cases.

### **Population Data**

Population data were derived primarily from the following sources at the State of California, Department of Finance, and were used as described below.

#### **Projection series**

- *Race/Ethnic Population with Age and Sex Detail, 1970-1989, December 1998*  
*Race/Ethnic Population with Age and Sex Detail, 1990-1999, May 2009*
- *California and its Counties Population by Age, Race/Hispanics, and Gender: 2000-2010, March 2013*
- *P-3 Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060, January 2013;*

#### **Estimate series**

- *E-4 Population Estimates for Cities, Counties, and the State*
- *E-2 California County Population Estimates and Components of Change by Year, July 1, 2010-2013.*

State and county population totals are from the estimate series. Populations for the cities of Berkeley, Long Beach and Pasadena were estimated by obtaining the ratio of city to county population totals from the E-4 report, and applying the ratio to the E-2 county population totals. Population totals for the jurisdiction of Alameda were then calculated by subtracting Berkeley calculated population from Alameda County total; population total for the jurisdiction of Los Angeles was calculated by subtracting Long Beach and Pasadena calculated populations from Los Angeles County total.

Demographic populations were estimated by applying the population proportion of each demographic subgroup (projection series) to the state total (estimate series)

For calculation of rates by racial/ethnic group, the multi-race category in the 2004-2013 population data was reallocated to a single racial/ethnic group according to the allocation table in this source: State of California, Department of Finance, *Suggested Allocations of the Multi-*

*race Category for Use with Projections by Race/Ethnicity for California and Its Counties, 2000-2050*, Sacramento, California, June 2004.

Populations of foreign-born and U.S.-born persons were calculated by applying the proportion of each group from the United States Census Bureau's *American Community Survey* available at <http://factfinder2.census.gov>, to the California total population for 2013 from California Department of Finance, *E-2 California County Population Estimates and Components of Change by Year, July 1, 2010-2013*. At the time of preparation of this report, U.S. Census data for the current year were not available, therefore the proportion of foreign-born and U.S.-born persons from 2012 were also used for 2013. These rates will be updated in future reports.

#### Small Case Numbers

We have chosen not to report rates when the total number of TB cases is less than five. Rates of zero, based on no TB cases, are also not reported. Where the rate is not reported, changes in rate over time are also not reported.

In tables that report demographics of, and risk factors for, TB cases by reporting jurisdictions (Tables 15-20, 35, 37-45), data from jurisdictions with less than five cases of TB are aggregated to reduce the likelihood that individual TB cases in a given jurisdiction can be identified.

The following 11 jurisdictions had between one and four cases of TB in 2013: Butte, El Dorado, Glenn, Humboldt, Lake, Mendocino, Napa, San Benito, San Luis Obispo, Shasta and Sutter. The following 17 jurisdictions had no TB cases in 2013: Alpine, Amador, Calaveras, Colusa, Del Norte, Inyo, Lassen, Mariposa, Modoc, Mono, Nevada, Plumas, Sierra, Siskiyou, Tehama, Trinity and Tuolumne.

#### Ranking of Jurisdictions

For Table 12, jurisdictions are ranked in order of decreasing 2013 case rates with the highest rank first. Those jurisdictions with one to four cases are not given a rate and are given the same rank; they are listed according to decreasing number of cases. Jurisdictions with no cases of TB are given the same rank and are listed in alphabetical order.

#### TB Case Definition and Verification Criteria

For surveillance purposes, a case of TB is defined by laboratory and clinical evidence of disease caused by *Mycobacterium tuberculosis* (*Mtb*) complex. TB cases with culture or nucleic acid amplification evidence of *Mtb*, or acid fast bacilli in a smear from a clinical specimen (when a culture cannot be obtained, or positive results are negative or contaminated) are classified as laboratory-confirmed. In the absence of laboratory confirmation, persons with a positive tuberculin skin test (TST) or positive interferon gamma release assay (IGRA) for *Mtb*, abnormal chest imaging (in those with pulmonary disease), and treatment with two or more anti-TB medications will be classified as clinically-confirmed TB. Reported cases not meeting one or more of the clinical criteria for TB are classified as provider-diagnosed cases because the health care provider has determined there is sufficient evidence of active TB disease to report the case.

The following hierarchy is applied in determining the verification criteria for TB disease (Table 24):

1. Positive culture for *Mtb*

2. Positive nucleic acid amplification test
3. Positive acid-fast bacilli test
4. Clinical case confirmation
5. Provider diagnosis

#### Race and Ethnicity

The RVCT has one variable for race and one for ethnicity. If a case is classified as "Hispanic" on the RVCT, then the case is reported as "Hispanic" in this report, regardless of race.

Beginning in 2003, the federal Office of Management and Budget (OMB) mandated separate reporting of Asian and Pacific Islander/Native Hawaiian races, as well as the opportunity for persons to identify themselves by one or more racial groups. Individuals reporting more than one race are presented in Table 18. In all other tables presenting race/ethnicity, cases were reassigned to a single racial/ethnic group based on the "Smallest Group" method, in which responses that include white and any another group were assigned to the other group, and responses with two or more racial groups other than white were assigned to the group with the fewest number of individuals identifying that group as a single race.

In 2013, there were eight non-Hispanic persons reported with more than one race. In tables where data on race/ethnicity are presented (except Table 18) five persons reported as Asian and white were included in the Asian and Pacific Islander group; one person reported as black and white, and one person reported black and Asian were included in the non-Hispanic black group. One person reported as American Indian or Alaska Native and black was included in the American Indian, Alaska Native group. In addition to the five persons reported as Asian and white, 1,051 were reported as Asian only, and 7 were reported as Native Hawaiian or Pacific Islander, for a total of 1,063 persons grouped in the racial ethnic group of Asian and Pacific Islander.

#### HIV/AIDS Status

In 2011, California implemented reporting of human immunodeficiency virus (HIV) status of TB cases on the RVCT (Table 36). Since 1993, TB cases co-infected with HIV, and reported with HIV or acquired immunodeficiency syndrome (AIDS) are also identified by matching TBCB Registry data with the HIV/AIDS case registry in the California Department of Public Health Office of AIDS. At the time of this report, the match results were available through 2012 (Tables 11, 35, Figures 10, 11).

#### Primary Reason for TB Evaluation

The primary reason for a patient's initial evaluation for TB was added to the TB case report form in 2010. Because multiple factors may be present at the time of a person's initial TB evaluation (e.g., a person with TB symptoms evaluated during the course of a contact investigation of a family member), and only the primary reason may be reported, the following definitions and hierarchies are applied.

**TB symptoms:** the person sought evaluation because of signs or symptoms of TB disease (e.g., persistent cough, fever, lymphadenopathy, night sweats, weight loss or symptoms of extra-pulmonary disease).

*Abnormal chest image:* the initial chest radiograph was consistent with TB disease, and was performed for a reason other than suspicion of TB disease. If the radiograph was performed following a positive TST or IGRA result obtained during targeted testing, “Targeted Testing” is considered to be the primary reason the patient was evaluated for TB.

*Contact investigation:* the person’s TB was identified during the course of a contact investigation or source case finding, regardless of whether the person was symptomatic at the time.

*Targeted testing:* a positive TST or IGRA result was obtained during a screening performed specifically because the person was considered to be at high risk for TB. However, health care worker or employment/administrative testing, contact investigation, and immigration medical exam supersede targeted testing as the primary reason a patient was evaluated, when one of those situations is applicable.

*Health care worker:* a positive TST or IGRA result was obtained during the course of routine screening of health care workers. Health care worker supersedes targeted testing and employment/administrative testing. However, evaluation of health care workers for other reasons (e.g., TB symptoms or contact investigation) supersedes health care worker.

*Employment/administrative testing:* persons whose TB testing was performed before or periodically during employment to meet administrative requirements. If employment was health-care, “health care worker” is considered the primary reason the patient was evaluated.

*Immigration medical exam:* TB disease was found during a medical examination that was part of the immigration requirement process that is mandatory for certain categories of U.S. entrants (e.g., immigrant, refugee, asylee).

*Incidental lab result:* the clinical evaluation was for something other than TB. Specimens were collected and submitted for evaluation of TB and other diseases for diagnostic completeness, but TB was not expected.

#### Risk Factors for TB

In 2010, reporting of certain additional medical and epidemiologic risk factors began. Persons with medical co-morbidities such as diabetes mellitus, end-stage renal disease, organ transplantation, tumor necrosis factor (TNF) alpha antagonist therapy, or other immunosuppressive medications that suppress a patient’s immune response have a higher risk of TB; these new data will provide a better understanding of these high-risk groups (Table 37).

Non-medical epidemiologic risks for TB (Table 38) include contact to an MDR TB case, or to an infectious TB patient. If the patient was a contact to an MDR case, he/she should be reported as “contact of MDR case,” rather than “contact of infectious case.” The association with the MDR case must be within the last two years. A case should be reported as a missed contact if the current case was identified as a contact of a known TB patient (within 2 years of current diagnosis), but was not identified or evaluated at that time. Incomplete LTBI treatment includes patients who started treatment for a previous diagnosis of LTBI, but did not complete the regimen.

#### Immigration Status at First Entry to the U.S.

Information on the immigration status of cases born outside the United States was added to the TB case report form in 2010. TB patients are asked to provide their immigration status at the time they first entered the U.S. Persons entering the U.S. with no official immigration status

(e.g., “undocumented” persons) are included in the “other” immigration status category, as are persons with visa types other than those specified in Table 21, and persons not required to obtain visas (such as short-term visitors from countries such as Canada that are part of the U.S. visa waiver program). In addition, some local health jurisdictions have policies in place that prohibit them from inquiring about the immigration status of patients; these cases are included in the “unknown” category.

For more detailed information on the reporting of the variables “Primary reason evaluated for TB,” “Additional risk factors for TB” and “Immigration status at first entry to the U.S.” see <http://www.cdc.gov/tb/programs/rvct/InstructionManual.pdf>.

#### Drug Susceptibility Reports

Tables 46-55 present the results of initial drug susceptibility testing for the most recent year (2013). Because the Initial Drug Susceptibility Report [Follow-up 1] may be submitted several months after the initial case report, all results may not have been available at the time this report was prepared. At the time of report preparation, drug susceptibility testing was approximately 96 percent complete for culture-positive TB cases. As additional Follow-up 1 reports are submitted, overall proportions of drug resistance may change slightly. These updated results will be available in future reports, in tables presenting trends in drug resistance (Tables 54, 55, Figure 12).

Figure 12 presents MDR TB cases (defined as cases with an isolate resistant to at least isoniazid and rifampin reported on the Initial Drug Susceptibility Report [Follow-up 1] or the Case Completion Report [Follow-up 2].

#### Case Completion Reports

Because the Case Completion Report (Follow-up 2) is not submitted until many months after a TB case is initially reported, data reported on cases counted in 2011 are the most recent available and are presented in this report. These data include health care provider type, directly observed therapy (DOT) and treatment outcomes (Tables 33, 34, 56-60, Figures 14-17). Data in these tables are from the final Follow-up 2 submitted and, therefore represent the overall treatment completion rate for cases beginning therapy for TB disease in California. Treatment completion may have occurred in the jurisdiction reporting the case, in another California jurisdiction, or in another state.

#### Treatment Outcomes

Categories for completion of therapy (Tables 56-60, Figures 14-17) are: completed therapy in 12 months or less (includes patients whose treatment was completed in 365 days or less); and completed therapy in more than 12 months (treatment completed in more than 365 days, or treatment completed in an undetermined amount of time). If the day of the month is missing from the treatment start or stop date (but the month and year are available), the missing day is set to the first of the month. Because the day of the month is much more likely to be missing from the stop date than the start date, the bias in calculating the duration of therapy is toward shorter duration of therapy.

Cases known to have started treatment, but for whom no Follow-up 2 is available are included in the “No Information” category. All other outcome categories reflect the “Reason Therapy Stopped” variable of the Follow-up 2.

Tables 57 and 60 and Figure 15 present outcomes of TB treatment for cases expected to complete TB therapy in one year or less. Thus, cases with rifampin-resistant disease (including MDR TB), those with meningeal disease, and children less than 15 years of age with disseminated TB disease are excluded. Treatment outcomes for those cases not expected to complete therapy in one year (rifampin-resistant disease, meningeal disease, and children less than 15 years of age with disseminated disease) are presented in Table 58 and Figure 16.

Figure 17 presents completion of TB therapy using methodology identical to that used by the CDC. Patients with rifampin-resistant disease, patients with meningeal disease, patients under 15 years of age with disseminated disease, and patients who died during treatment are excluded. The percentage of patients who completed therapy in one year or less is presented, as well as the percentage of patients who completed therapy, regardless of duration.