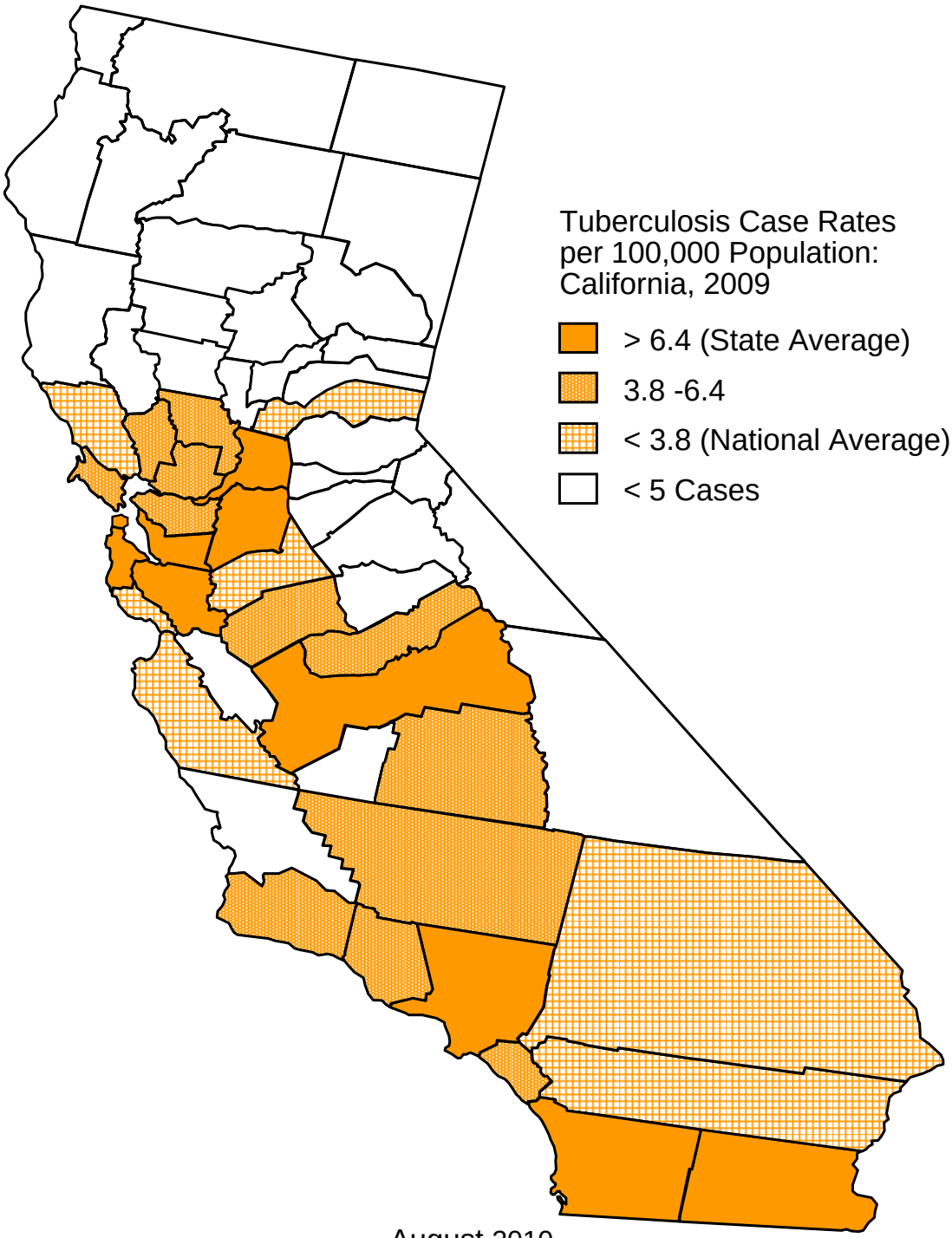
REPORT ON TUBERCULOSIS IN CALIFORNIA, 2009



August 2010

Arnold Schwarzenegger, Governor
State of California

Kimberly Belshé, Secretary
California Health and Human Services Agency

Mark B Horton, MD, MSPH, Director
California Department of Public Health

Report on Tuberculosis In California, 2009

Arnold Schwarzenegger
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California Department of Public Health
Center for Infectious Diseases
Division of Communicable Disease Control
Tuberculosis Control Branch
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Cover: The map illustrates tuberculosis case rates by reporting jurisdiction in 2009. Eleven jurisdictions (including Long Beach, not represented) have tuberculosis case rates above the state average of 6.4 cases per 100,000 population. Seven jurisdictions have tuberculosis case rates below the 2009 national rate of 3.8 per 100,000 population. Twelve jurisdictions have case rates between the national and state rates (3.8 to 6.4 cases per 100,000 population). Case rates were not calculated for 31 jurisdictions (including Berkeley and Pasadena, not represented) because there were fewer than five cases in these areas.

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Introduction

Tuberculosis (TB) case reports are submitted to the California Department of Public Health (CDPH), TB Control Branch (TBCB), by the 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 expanded Report of Verified Case of Tuberculosis (RVCT) to collect information on each case of TB. In addition to the demographic and clinical features of TB that were previously collected, the RVCT includes information on drug resistance, risk factors for TB, and treatment outcomes. In 2009, CDC released a revised 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 is currently implementing an internet-based surveillance system for reportable diseases including TB. The system, California Reportable Disease Information Exchange (CalREDIE), will allow all jurisdictions in California to submit TB case reports and access their local data on-line in a timely manner. The Tuberculosis Information Management System (TIMS), in use since 1998 for data entry and transmission of case reports, is being retired in 2010.

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 2009, 2,472 cases of tuberculosis (TB) were reported in California. The 8.3 percent decline from the 2,695 cases reported in 2008 marks the largest decrease in TB cases since 2000. Decreases in cases were seen across all race/ethnic and age groups, as well as in persons born in the United States (U.S.) and in other countries. Initial analysis suggests that reduced overall immigration to the U.S. and improved screening of immigrants before arrival are major contributors to the decline in case numbers among the foreign-born. The decline in U.S.-born cases also indicates that efforts to identify and treat newly-infected TB cases and to interrupt transmission have been successful. Investigation to more fully understand the reasons for the sizable one-year decrease in case numbers is ongoing.

California continues to contribute the greatest number of cases to the nation's total TB morbidity. Of 11,540 cases of TB reported in the United States in 2009, California contributed 21 percent. California continues to be the state with the second highest TB rate in the nation at 6.4 cases per 100,000 population, compared to a national rate of 3.8 cases per 100,000 population.[1] The decline in TB in California reflects major successes in national, state, and local efforts to control and prevent tuberculosis. However, the increased risk of TB in certain subpopulations in California highlights areas where TB continues to pose an ongoing threat to the public's health.

Geographic Distribution

In 2009, TB was reported in 43 of 61 (70 percent) local health jurisdictions in California. In spite of the overall case decline in California, 14 (23 percent) jurisdictions had an increase in TB cases compared to 2008 (Table 13). Nearly two-thirds of the areas reporting a case increase were rural or small health jurisdictions. This poses significant challenges to local TB programs where expertise and resources to detect and treat TB may be less available.

Demographic Characteristics of TB Cases

The majority of persons reported with TB in California are Asian/Pacific Islanders (46 percent) or Hispanic (37 percent) (Table 2, Figure 3). The Asian/Pacific Islander group had the smallest case decline (1.6 percent) from 2008, while White non-Hispanics had the largest decline (17.2 percent). The disproportionate case declines resulted in increasing disparities between race/ethnic groups compared to 2008. The rate of TB in 2009 among Asian/Pacific Islanders was 17 times greater, the rate among Black non-Hispanics was six times greater, and the rate among Hispanics was five times greater than that of White non-Hispanics (Table 3, Figure 4).

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[1] CDC. Decrease in Reported Tuberculosis Cases --- United States, 2009. *Morbidity and Mortality Weekly Report* 2010; 59 (No. RR 10); 289-294

Individuals born outside the United States accounted for nearly 76 percent of the cases of TB in California in 2009 (Table 2). The majority of cases were from Mexico (n=542, 29 percent), followed by the Philippines (n=392, 21 percent), Vietnam (n=201, 11 percent), China (n=135, 7 percent) and India (n=103, 5.5 percent) (Table 10). The number of cases from each country of origin decreased compared to 2008. However, the rate of TB among foreign-born persons remains eight times higher than the rate among persons born in the United States (Table 3). The higher rate of TB among foreign-born persons may reflect the increased likelihood of exposure to TB in many countries.

Among foreign-born persons with TB, the proportion of new arrivers to the United States has declined in recent years. In 2009, less than ten percent of foreign-born cases were identified within one year of the patient's arrival in the United States (Table 10), compared to 18 percent in 2006. In 2007, the Centers for Disease Control and Prevention implemented new procedures for overseas screening of immigrants and refugees applying for permanent residency in the U.S. These new procedures have increased the number of persons identified and treated with TB prior to entry to the U.S. However, because overseas screening is limited to persons applying for permanent residence and refugees, it is estimated that less than 60 percent of foreign-born persons with TB were screened prior to entry to this country. Thus, persons with active TB who were not screened overseas and with latent TB infection will continue to enter California, and ongoing efforts to prevent and control TB in foreign-born persons are needed. The California Department of Public Health (CDPH) provides financial and technical support to local health jurisdictions for TB control in California. CDPH also supports several strategies to improve TB control in foreign-born persons including Cure-TB (a San Diego-based referral service to ensure continuity of care for patients who move across the U.S.-Mexico border), and the Bi-national Card (a portable medical record which includes vital clinical, laboratory, and treatment information for TB patients).

There were 70 cases of TB reported in children under five years of age in 2009 (Tables 2, 6, 15), the first notable decrease in this group since 2005. Two-thirds of the TB cases among children in this age group are among Hispanics (Table 7). TB in a young child is a marker for ongoing TB transmission and, therefore, a missed public health opportunity for TB control. The pattern of childhood TB suggests that certain communities in California have increased risk of transmission and that additional efforts are needed to further reduce TB transmission in California. To interrupt TB transmission, CDPH provides financial and technical assistance to local TB programs.

HIV/AIDS

Infection with the Human Immunodeficiency Virus (HIV) is a powerful risk factor for the development of TB. In 2008, the most recent year for which data are available, 126 (4.7 percent) TB cases had a co-diagnosis of Acquired Immunodeficiency Syndrome (AIDS) (Table 11). The percentage of AIDS/TB patients who are foreign-born increased from 37 percent in 1996 to 59 percent in 2008. The percentage of

AIDS/TB patients who are Hispanic increased from 41 percent to 57 percent, and the percentage who are Asian/Pacific Islander doubled from less than four percent to nearly eight percent in the same time period. The changing profile of TB cases with AIDS underscores the need for HIV testing of all TB cases to identify and appropriately treat these patients as outlined in CDPH (www.ctca.org) and national guidelines http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5804a1.htm). TB testing is also universally recommended for HIV infected persons to identify opportunities to prevent progression to active TB in this high risk population.

Drug Resistance

The frequency of resistance to isoniazid (INH), one of the primary drugs used to treat TB, has remained between 9 and 11 percent in recent years (Table 45). Among those with a prior episode of TB, the frequency of INH resistance was greater than 20 percent in 2009 (Table 38). Where INH resistance exceeds four percent, the CDC recommends starting all TB cases on an initial four drug regimen. In 2009, 88 percent of cases began TB treatment with a four drug regimen (Table 26).

In 2009, the frequency of resistance to pyrazinamide (PZA), another of the most useful drugs against TB, was greater than four percent (Table 41). Since 2000, the proportion of TB cases with PZA resistance has increased gradually, ranging from 3.5 to 5.4 percent. PZA mono-resistance is a marker for infection with *Mycobacterium bovis*, which is more common among young Hispanic persons, as well as those with HIV infection.[2] Infection with *M. bovis* may arise from ingestion of unpasteurized dairy products, and therefore has implications for control efforts.

Multidrug-resistant (MDR) TB is defined as a TB isolate resistant to at least isoniazid, and either rifampin or rifabutin, the most powerful drugs used to treat TB. Between 28 and 39 cases of culture-confirmed MDR TB were reported per year in California between 2003 and 2009 (Table 46), reflecting little change in the proportion of TB cases that are MDR over time. Populations at an increased risk for MDR TB include those with a history of TB treatment, and recent arrivers to the U.S., especially from former Soviet republics, and the nations of Southeast Asia. The consequences of the spread of these strains of TB to the patient and to the public can be grave in terms of human mortality and the very high cost associated with treatment. Since 1993, 23 cases of the most severe form of drug resistance, termed extensively drug resistant (XDR) TB, have been reported in California (data not shown). No new XDR cases were reported in 2009. XDR TB is defined by the World Health Organization as resistance to isoniazid and rifampin, as well as at least one fluoroquinoline and any of the second-line injectable agents, amikacin, kanamycin, or capreomycin.

The CDPH MDR TB service was developed in 2002 to increase access to consultation and tools to manage MDR TB patients in California. In partnership with

[2] Hlavsa et al. Human Tuberculosis due to *Mycobacterium bovis* in the United States, Clinical Infectious Diseases 2008; 47:168-75.

local TB control programs, this service works to ensure appropriate treatment and public health follow-up of all MDR TB cases. CDPH also carries out enhanced surveillance of MDR TB cases to ensure complete reporting of MDR TB cases, and to inform ongoing control efforts.

Treatment Outcomes

Because treatment of TB disease may last from 6 to 24 months, the most recent complete data on TB treatment outcomes are from 2007. Among all patients for whom TB was susceptible to all first-line medicines, 75 percent completed treatment within one year, and 13 percent completed in more than one year for a total of 88 percent of patients overall completing treatment (Figure 17). A key activity to promote timely completion of treatment is the use of directly observed therapy (DOT) for patients at high risk of defaulting from treatment. The use of DOT has improved significantly, with 85 percent of TB cases receiving at least part of their treatment under supervision in 2007 (Table 28), compared to 55 percent in 1996 (data not shown). Of patients beginning therapy in 2007, 197 (7.4 percent) moved prior to completing treatment (Table 47). Final treatment outcomes remain unknown for more than 50 percent of these patients, many of whom moved out of the country.

Approximately six percent of patients died during treatment for tuberculosis in 2007 (Table 25). In addition, more than two percent of reported cases had TB diagnosed after death or before treatment for TB disease was initiated. The proportion of TB cases dying with TB has varied between eight and ten percent in the past decade. CDPH is participating in a national study to describe TB mortality, to determine the proportion of deaths that are TB-related and preventable, and to assess risk factors associated with TB-related deaths.

California has experienced considerable success in the prevention and control of TB. The ongoing challenges to TB control, including the impact of global migration and the global TB epidemic, ongoing TB transmission in California, TB disparities among race/ethnic groups, the intersection of TB and HIV disease, ongoing high rates of deaths among TB patients, and drug resistant TB, underscore the importance of maintaining strong local and state TB control programs. State and local TB programs work to protect the health of all Californians by breaking the cycle of TB transmission.

Table 1. Tuberculosis Cases and Case Rates per 100,000 Population: California, 1985-2009

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	5,173	16.5	-3.9	-5.2
1994	4,860	15.4	-6.1	-6.7
1995	4,675	14.7	-3.8	-4.5
1996	4,313	13.5	-7.7	-8.2
1997	4,059	12.5	-5.9	-7.4
1998	3,855	11.7	-5.0	-6.4
1999	3,608	10.8	-6.4	-7.7
2000	3,297	9.7	-8.6	-10.2
2001	3,332	9.6	1.1	-1.0
2002	3,169	9.0	-4.9	-6.3
2003	3,227	9.0	1.8	0.0
2004	2,989	8.2	-7.4	-8.9
2005	2,903	7.9	-2.9	-3.7
2006	2,779	7.4	-4.3	-6.3
2007	2,725	7.2	-1.9	-2.7
2008	2,695	7.0	-1.1	-2.8
2009	2,472	6.4	-8.3	-8.6

California Department of Public Health, Tuberculosis Control Branch

Table 2. Tuberculosis Cases by Race/Ethnicity, Age Group, Sex, and Birthplace: California, 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
Total Cases	**3,297**	**3,332**	**3,169**	**3,227**	**2,989**	**2,903**	**2,779**	**2,725**	**2,695**	**2,472**	**-25.0**	**-8.3**
Race/Ethnicity												
White, Not Hispanic	391	365	323	332	293	267	267	237	261	216	-44.8	-17.2
Black, Not Hispanic	322	292	277	249	225	225	208	217	210	190	-41.0	-9.5
Hispanic	1,198	1,252	1,273	1,281	1,173	1,126	1,068	993	1,058	917	-23.5	-13.3
Asian/Pacific Islander	1,367	1,399	1,285	1,351	1,287	1,274	1,223	1,262	1,156	1,137	-16.8	-1.6
American Indian/Alaskan Native	16	16	7	7	6	5	9	6	9	6	-62.5	-33.3
Unknown	3	8	4	7	5	6	4	10	1	6	.	.
Age Group												
0-4	116	133	127	132	117	86	91	87	87	70	-39.7	-19.5
5-14	89	92	96	99	106	64	42	46	68	54	-39.3	-20.6
15-24	328	318	311	349	302	277	319	291	280	231	-29.6	-17.5
25-44	1,058	1,109	1,056	991	923	917	859	787	812	738	-30.2	-9.1
45-64	944	953	870	930	869	846	792	861	825	746	-21.0	-9.6
65+	762	727	709	726	672	713	676	653	623	633	-16.9	1.6
Sex												
Male	1,974	2,029	1,883	1,878	1,787	1,752	1,668	1,649	1,657	1,499	-24.1	-9.5
Female	1,323	1,300	1,285	1,349	1,202	1,151	1,110	1,074	1,038	971	-26.6	-6.5
Unknown	-	3	1	-	-	-	1	2	-	2	.	.
Birthplace												
U.S.-born	904	824	758	771	710	653	630	590	661	583	-35.5	-11.8
Foreign-born	2,377	2,482	2,390	2,431	2,266	2,232	2,136	2,113	2,023	1,867	-21.5	-7.7
Unknown	16	26	21	25	13	18	13	22	11	22	37.5	100.0

- Indicates zero cases.

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

California Department of Public Health, Tuberculosis Control Branch

Table 3. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity, Age Group, Sex, and Birthplace: California, 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
Total Cases	**9.7**	**9.6**	**9.0**	**9.0**	**8.2**	**7.9**	**7.4**	**7.2**	**7.0**	**6.4**	**-34.0**	**-8.6**
Race/Ethnicity												
White, Not Hispanic	2.4	2.3	2.0	2.0	1.8	1.6	1.6	1.4	1.6	1.3	-45.8	-18.8
Black, Not Hispanic	13.8	12.3	11.6	10.4	9.4	9.4	8.6	9.0	8.7	7.8	-43.5	-10.3
Hispanic	10.8	10.9	10.8	10.5	9.3	8.7	8.1	7.3	7.6	6.5	-39.8	-14.5
Asian/Pacific Islander	32.7	32.3	28.7	29.4	27.4	26.7	25.2	25.5	22.9	22.1	-32.7	-3.9
American Indian/Alaskan Native	4.1	3.9	1.6	1.6	1.3	1.1	1.9	1.2	1.8	1.2	-75.0	-44.4
Age Group												
0-4	4.6	5.3	4.9	5.0	4.4	3.2	3.4	3.2	3.2	2.5	-43.5	-18.8
5-14	1.7	1.7	1.7	1.8	1.9	1.2	0.8	0.8	1.2	1.0	-41.2	-16.7
15-24	6.8	6.5	6.2	6.9	5.8	5.2	5.8	5.2	4.9	3.9	-42.6	-20.4
25-44	9.8	10.2	9.7	9.1	8.5	8.5	8.0	7.4	7.6	6.9	-29.6	-9.2
45-64	13.4	12.9	11.3	11.6	10.4	9.8	8.9	9.4	8.8	7.7	-42.5	-12.5
65+	21.0	19.7	18.9	19.0	17.2	18.0	16.8	15.9	14.8	14.7	-30.0	-0.7
Sex												
Male	11.6	11.7	10.7	10.5	9.8	9.5	8.9	8.7	8.7	7.8	-32.8	-10.3
Female	7.7	7.5	7.2	7.5	6.6	6.2	5.9	5.7	5.4	5.0	-35.1	-7.4
Birthplace												
Foreign-born	29.7	29.0	27.1	26.7	24.3	23.4	21.4	21.8	20.3	18.5	-37.7	-8.9
U.S.-born	3.6	3.3	3.0	3.0	2.7	2.4	2.4	2.2	2.5	2.2	-38.9	-12.0

Note: Denominators for computing the overall rate of tuberculosis in California, and rates by race/ethnicity, age group, and sex are from the California Department of Finance, *Population Projections by Race/Ethnicity.* Denominators for computing rates for foreign-born and U.S.-born persons are from the California Department of Finance, *Current Population Survey* annual reports.

California Department of Public Health, Tuberculosis Control Branch

Table 4. Tuberculosis Cases by Race/Ethnicity and Age Group: California, 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
Total Cases	**3,297**	**3,332**	**3,169**	**3,227**	**2,989**	**2,903**	**2,779**	**2,725**	**2,695**	**2,472**	**-25.0**	**-8.3**
White, Not Hispanic	391	365	323	332	293	267	267	237	261	216	-44.8	-17.2
0-4	6	7	8	3	6	6	1	5	5	4	.	.
5-14	6	2	7	5	6	2	1	4	2	3	.	.
15-24	14	15	16	23	17	10	20	4	16	14	0.0	-12.5
25-44	90	105	82	72	60	64	53	46	48	49	-45.6	2.1
45-64	133	120	100	120	92	99	86	86	115	74	-44.4	-35.7
65+	142	116	110	109	112	86	106	92	75	72	-49.3	-4.0
Black, Not Hispanic	322	292	277	249	225	225	208	217	210	190	-41.0	-9.5
0-4	9	12	13	7	6	4	5	6	5	7	-22.2	40.0
5-14	7	10	4	7	9	5	-	2	7	6	-14.3	-14.3
15-24	28	18	28	23	19	19	22	27	17	17	-39.3	0.0
25-44	122	111	100	77	75	77	75	68	82	57	-53.3	-30.5
45-64	117	101	94	96	86	85	72	82	76	68	-41.9	-10.5
65+	39	40	38	39	30	35	34	32	23	35	-10.3	52.2
Hispanic	1,198	1,252	1,273	1,281	1,173	1,126	1,068	993	1,058	917	-23.5	-13.3
0-4	77	96	88	99	85	62	66	61	54	46	-40.3	-14.8
5-14	56	65	66	67	66	41	32	26	46	36	-35.7	-21.7
15-24	183	180	166	183	165	165	168	157	162	124	-32.2	-23.5
25-44	418	443	460	459	401	408	378	339	369	313	-25.1	-15.2
45-64	288	286	297	288	275	267	259	252	270	239	-17.0	-11.5
65+	176	182	196	185	181	183	165	158	157	159	-9.7	1.3
Asian/Pacific Islander	1,367	1,399	1,285	1,351	1,287	1,274	1,223	1,262	1,156	1,137	-16.8	-1.6
0-4	23	18	18	23	19	14	19	15	23	13	-43.5	-43.5
5-14	19	15	19	20	25	16	9	13	13	9	-52.6	-30.8
15-24	103	105	100	119	100	83	108	102	85	76	-26.2	-10.6
25-44	422	442	409	378	384	365	346	327	309	315	-25.4	1.9
45-64	399	438	378	421	413	389	373	437	359	361	-9.5	0.6
65+	401	381	361	390	346	407	368	368	367	363	-9.5	-1.1
American Indian/Alaska Native	16	16	7	7	6	5	9	6	9	6	-62.5	-33.3
0-4	1	-	-	-	1	-	-	-	-	-	.	.
5-14	1	-	-	-	-	-	-	-	-	-	.	.
15-24	-	-	1	-	1	-	1	1	-	-	.	.
25-44	5	5	2	3	2	2	5	2	4	1	.	.
45-64	6	8	1	2	1	2	1	1	4	3	.	.
65+	3	3	3	2	1	1	2	2	1	2	.	.
Race Unknown	3	8	4	7	5	6	4	10	1	6	.	.
5-14	-	-	-	-	-	-	-	1	-	-	.	.
15-24	-	-	-	1	-	-	-	-	-	-	.	.
25-44	1	3	3	2	1	1	2	5	-	3	.	.
45-64	1	-	-	3	2	4	1	3	1	1	.	.
65+	1	5	1	1	2	1	1	1	-	2	.	.

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

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Table 5. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity and Age Group: California, 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
Total Cases	**9.7**	**9.6**	**9.0**	**9.0**	**8.2**	**7.9**	**7.4**	**7.2**	**7.0**	**6.4**	**-34.0**	**-8.6**
White, Not Hispanic	2.4	2.3	2.0	2.0	1.8	1.6	1.6	1.4	1.6	1.3	-45.8	-18.8
0-4	0.7	0.9	1.0	.	0.8	0.8	.	0.6	0.6	.	.	.
5-14	0.3	.	0.4	0.3	0.3	.	.	.	.	.	.	.
15-24	0.8	0.8	0.9	1.2	0.9	0.5	1.0	.	0.8	0.7	-12.5	-12.5
25-44	1.9	2.2	1.8	1.6	1.3	1.5	1.2	1.1	1.2	1.2	-36.8	0.0
45-64	3.2	2.8	2.2	2.6	1.9	2.0	1.7	1.7	2.3	1.5	-53.1	-34.8
65+	5.6	4.6	4.3	4.3	4.4	3.3	4.1	3.5	2.8	2.7	-51.8	-3.6
Black, Not Hispanic	13.8	12.3	11.6	10.4	9.4	9.4	8.6	9.0	8.7	7.8	-43.5	-10.3
0-4	5.0	6.8	7.6	4.1	3.6	.	3.1	3.7	3.0	4.2	-16.0	40.0
5-14	1.6	2.3	.	1.7	2.2	1.3	.	.	1.9	1.7	6.3	-10.5
15-24	8.1	5.0	7.6	6.0	4.8	4.7	5.3	6.4	4.0	3.9	-51.9	-2.5
25-44	16.4	15.0	13.7	10.7	10.5	11.0	10.9	10.0	12.2	8.4	-48.8	-31.1
45-64	25.7	21.4	19.3	19.0	16.6	15.9	13.1	14.6	13.2	11.7	-54.5	-11.4
65+	20.7	20.7	19.3	19.4	14.6	16.7	16.0	14.8	10.4	15.0	-27.5	44.2
Hispanic	10.8	10.9	10.8	10.5	9.3	8.7	8.1	7.3	7.6	6.5	-39.8	-14.5
0-4	6.5	7.8	7.0	7.6	6.4	4.5	4.8	4.5	3.9	3.2	-50.8	-17.9
5-14	2.4	2.7	2.6	2.6	2.5	1.5	1.2	1.0	1.7	1.3	-45.8	-23.5
15-24	9.1	9.0	8.3	9.0	8.0	7.7	7.5	6.7	6.6	4.8	-47.3	-27.3
25-44	11.5	11.8	11.9	11.6	10.0	10.0	9.1	8.1	8.7	7.3	-36.5	-16.1
45-64	20.2	18.6	18.0	16.2	14.5	13.3	12.2	11.2	11.4	9.6	-52.5	-15.8
65+	36.5	35.3	35.7	31.8	29.5	28.5	24.7	22.7	21.6	21.0	-42.5	-2.8
Asian/Pacific Islander	32.7	32.3	28.7	29.4	27.4	26.7	25.2	25.5	22.9	22.0	-32.7	-3.9
0-4	8.4	6.3	6.1	7.4	5.9	4.2	5.6	4.4	6.7	4.1	-51.2	-38.8
5-14	3.2	2.5	3.1	3.2	4.1	2.6	1.5	2.1	2.0	1.4	-56.3	-30.0
15-24	16.4	16.2	15.1	17.6	14.6	12.1	15.7	14.7	12.2	10.9	-33.5	-10.7
25-44	30.1	30.7	27.9	25.5	25.7	24.4	23.0	21.5	20.2	20.2	-32.9	0.0
45-64	44.7	46.3	37.9	40.3	37.8	34.3	31.7	35.8	28.3	27.4	-38.7	-3.2
65+	104.3	92.9	83.0	84.9	71.8	81.1	70.4	67.6	64.7	61.3	-41.2	-5.3
American Indian/Alaska Native	4.0	3.9	1.6	1.6	1.3	1.1	1.9	1.2	1.8	1.0	-75.0	-44.4
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-14	.	.	.	.	.	.	.	.	.	.	.	.
15-24	.	.	.	.	.	.	.	.	.	.	.	.
25-44	4.5	4.4	.	.	.	.	4.3	.	.	.	.	.
45-64	8.4	10.4	.	.	.	.	.	.	.	.	.	.
65+	.	.	.	.	.	.	.	.	.	.	.	.

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

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Table 6. Tuberculosis Cases by Race/Ethnicity, Sex, and Age Group: California, 2009

		Age Group					
	All Ages	0-4	5-14	15-24	25-44	45-64	65+
Total Cases	**2,472**	**70**	**54**	**231**	**738**	**746**	**633**
White, Not Hispanic	216	4	3	14	49	74	72
Male	145	3	2	8	30	56	46
Female	71	1	1	6	19	18	26
Black, Not Hispanic	190	7	6	17	57	68	35
Male	127	3	3	10	37	50	24
Female	63	4	3	7	20	18	11
Hispanic	917	46	36	124	313	239	159
Male	564	27	14	66	202	158	97
Female	351	19	22	56	111	81	62
Unknown	2	-	-	2	-	-	-
Asian/Pacific Islander	1,137	13	9	76	315	361	363
Male	655	7	4	40	148	224	232
Female	482	6	5	36	167	137	131
American Indian/Alaska Native	6	-	-	-	1	3	2
Male	4	-	-	-	1	2	1
Female	2	-	-	-	-	1	1
Race/Ethnicity Not Stated	6	-	-	-	3	1	2
Male	4	-	-	-	1	1	2
Female	2	-	-	-	2	-	-

- Indicates zero cases.

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Table 7. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity, Sex, and Age Group: California, 2009

		Age Group					
	All Ages	0-4	5-14	15-24	25-44	45-64	65+
Total Cases	**6.4**	**2.6**	**1.0**	**3.9**	**6.9**	**7.7**	**14.7**
White, Not Hispanic	1.3	.	.	0.7	1.2	1.5	2.7
Male	1.8	.	.	0.7	1.4	2.2	3.9
Female	0.9	.	.	0.6	1.0	0.7	1.7
Black, Not Hispanic	7.8	4.2	1.7	3.9	8.4	11.7	15.0
Male	10.8	.	.	4.5	11.2	18.2	25.2
Female	4.9	.	.	3.3	5.6	5.8	7.6
Hispanic	6.5	3.2	1.3	4.8	7.3	9.6	21.0
Male	7.7	3.8	1.0	5.0	8.8	12.6	29.4
Female	5.1	2.6	1.7	4.5	5.5	6.5	14.7
Asian/Pacific Islander	22.0	4.1	1.4	10.9	20.2	27.4	61.3
Male	26.5	4.0	.	11.2	19.9	36.7	92.0
Female	17.9	4.1	1.6	10.6	20.5	19.3	38.4
American Indian/Alaska Native	1.0	.	.	.	.	.	.
Male	.	.	.	.	.	.	.
Female	.	.	.	.	.	.	.

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

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Table 8. Tuberculosis Cases in U.S.-born Persons by Race/Ethnicity, Sex, and Age Group: California, 2009

		Age Group					
	All Ages	0-4	5-14	15-24	25-44	45-64	65+
Total Cases	**583**	**68**	**36**	**88**	**123**	**160**	**108**
White, Not Hispanic	158	4	1	9	33	61	50
Male	110	3	1	6	22	47	31
Female	48	1	-	3	11	14	19
Black, Not Hispanic	136	6	4	11	31	60	24
Male	95	3	1	5	24	45	17
Female	41	3	3	6	7	15	7
Hispanic	219	46	26	49	41	32	25
Male	113	27	9	20	21	18	18
Female	106	19	17	29	20	14	7
Asian/Pacific Islander	66	12	5	19	18	4	8
Male	36	6	3	9	10	3	5
Female	30	6	2	10	8	1	3
American Indian/Alaska Native	4	-	-	-	-	3	1
Male	2	-	-	-	-	2	-
Female	2	-	-	-	-	1	1

- Indicates zero cases.

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Table 9. Tuberculosis Cases in Foreign-born Persons by Race/Ethnicity, Sex, and Age Group: California, 2009

		Age Group					
	All Ages	0-4	5-14	15-24	25-44	45-64	65+
Total Cases	**1,867**	**2**	**18**	**140**	**611**	**578**	**518**
White, Not Hispanic	58	-	2	5	16	13	22
Male	35	-	1	2	8	9	15
Female	23	-	1	3	8	4	7
Black, Not Hispanic	53	1	2	6	26	7	11
Male	31	-	2	5	13	4	7
Female	22	1	-	1	13	3	4
Hispanic	686	-	10	72	269	205	130
Male	442	-	5	44	178	138	77
Female	242	-	5	26	91	67	53
Unknown	2	-	-	2	-	-	-
Asian/Pacific Islander	1,066	1	4	57	297	353	354
Male	616	1	1	31	138	219	226
Female	450	-	3	26	159	134	128
American Indian/Alaska Native	2	-	-	-	1	-	1
Male	2	-	-	-	1	-	1
Race/Ethnicity Not Stated	2	-	-	-	2	-	-
Male	1	-	-	-	1	-	-
Female	1	-	-	-	1	-	-

- Indicates zero cases.

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Table 10. Tuberculosis Cases in Foreign-born Persons by Country of Origin and Time in the United States: California, 2009

Country of Origin *	Total Foreign-born Cases	Time in United States: ≤ 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.	%
Total	**1,867**	**183**	**9.8**	**73**	**3.9**	**217**	**11.6**	**289**	**15.5**	**412**	**22.1**	**625**	**33.5**	**68**	**3.6**
Mexico	542	47	8.7	25	4.6	56	10.3	85	15.7	105	19.4	211	38.9	13	2.4
Philippines	392	39	9.9	12	3.1	43	11.0	67	17.1	96	24.5	122	31.1	13	3.3
Vietnam	201	15	7.5	3	1.5	14	7.0	22	10.9	69	34.3	66	32.8	12	6.0
China**	135	12	8.9	6	4.4	9	6.7	9	6.7	28	20.7	64	47.4	7	5.2
India	103	14	13.6	6	5.8	14	13.6	28	27.2	27	26.2	12	11.7	2	1.9
Korea, South	70	4	5.7	3	4.3	5	7.1	7	10.0	16	22.9	30	42.9	5	7.1
Guatemala	61	6	9.8	3	4.9	16	26.2	14	23.0	9	14.8	11	18.0	2	3.3
Kampuchea (Cambodia)	45	4	8.9	2	4.4	7	15.6	4	8.9	3	6.7	22	48.9	3	6.7
Laos	34	-	-	-	-	4	11.8	2	5.9	8	23.5	20	58.8	-	-
El Salvador	30	2	6.7	-	-	5	16.7	3	10.0	8	26.7	11	36.7	1	3.3
Ethiopia	20	3	15.0	1	5.0	4	20.0	8	40.0	3	15.0	1	5.0	-	-
Honduras	17	2	11.8	1	5.9	7	41.2	5	29.4	2	11.8	-	-	-	-
Peru	17	-	-	1	5.9	2	11.8	6	35.3	4	23.5	3	17.6	1	5.9
Indonesia	16	3	18.8	-	-	2	12.5	5	31.3	4	25.0	1	6.3	1	6.3
Burma	15	1	6.7	-	-	6	40.0	3	20.0	1	6.7	4	26.7	-	-
Thailand	11	-	-	-	-	4	36.4	2	18.2	1	9.1	4	36.4	-	-
Pakistan	10	1	10.0	1	10.0	1	10.0	-	-	4	40.0	3	30.0	-	-
Soviet Union	9	-	-	1	11.1	1	11.1	2	22.2	3	33.3	2	22.2	-	-
Taiwan	9	-	-	-	-	-	-	1	11.1	2	22.2	4	44.4	2	22.2
Afghanistan	7	-	-	1	14.3	-	-	-	-	2	28.6	3	42.9	1	14.3
Iran	6	1	16.7	-	-	2	33.3	-	-	1	16.7	1	16.7	1	16.7
Japan	6	-	-	-	-	-	-	1	16.7	2	33.3	3	50.0	-	-
Fiji	5	-	-	-	-	1	20.0	1	20.0	2	40.0	1	20.0	-	-
Nepal	5	-	-	2	40.0	2	40.0	-	-	1	20.0	-	-	-	-
Nigeria	5	1	20.0	1	20.0	-	-	2	40.0	-	-	1	20.0	-	-
Other Countries	96	28	29.2	4	4.2	12	12.5	12	12.5	11	11.5	25	26.0	4	4.2

* Countries listed in order of number of cases.
** People's Republic of China including Hong Kong.
- Indicates zero cases or zero percent.

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Table 11. AIDS-associated Tuberculosis* by Demographic Characteristics and Risk Factors for Tuberculosis: California, 2003-2008

	2003			2004			2005			2006			2007			2008		
	Total Cases	AIDS Diagnosis		Total Cases	AIDS Diagnosis		Total Cases	AIDS Diagnosis		Total Cases	AIDS Diagnosis		Total Cases	AIDS Diagnosis		Total Cases	AIDS Diagnosis	
		No.	%		No.	%		No.	%		No.	%		No.	%		No.	%
Total	**3,218**	**197**	**6.1**	**2,991**	**134**	**4.5**	**2,900**	**147**	**5.1**	**2,778**	**128**	**4.6**	**2,724**	**140**	**5.1**	**2,701**	**126**	**4.7**
Race/Ethnicity																		
White, Not Hispanic	329	33	10.0	293	15	5.1	268	17	6.3	268	11	4.1	237	19	8.0	260	15	5.8
Black, Not Hispanic	249	29	11.6	226	25	11.1	225	36	16.0	207	23	11.1	217	30	13.8	210	28	13.3
Hispanic	1,280	116	9.1	1,176	78	6.6	1,127	85	7.5	1,067	81	7.6	994	77	7.7	1,060	72	6.8
Asian/Pacific Islander	1,346	18	1.3	1,288	16	1.2	1,271	7	0.6	1,223	12	1.0	1,261	12	1.0	1,161	10	0.9
American Indian/Alaska Native	7	-	-	5	-	-	5	1	20.0	9	1	11.1	6	-	-	9	1	11.1
Unknown	7	1	14.3	3	-	-	4	1	25.0	4	-	-	9	2	22.2	1	-	-
Age Group																		
0-4	131	-	-	117	-	-	85	-	-	91	-	-	89	-	-	87	-	-
5-14	99	-	-	104	1	1.0	64	2	3.1	42	-	-	45	-	-	68	-	-
15-24	350	6	1.7	305	9	3.0	280	4	1.4	321	7	2.2	291	6	2.1	280	6	2.1
25-44	990	126	12.7	922	76	8.2	913	90	9.9	858	80	9.3	787	80	10.2	813	78	9.6
45-64	926	57	6.2	868	46	5.3	848	48	5.7	791	35	4.4	860	48	5.6	829	41	4.9
65+	722	8	1.1	675	2	0.3	710	3	0.4	675	6	0.9	652	6	0.9	624	1	0.2
Sex																		
Male	1,873	164	8.8	1,785	111	6.2	1,750	127	7.3	1,667	103	6.2	1,649	119	7.2	1,659	105	6.3
Female	1,345	33	2.5	1,206	23	1.9	1,150	20	1.7	1,111	25	2.3	1,074	21	2.0	1,042	21	2.0
Unknown													1	-	-			
Place of Birth																		
Foreign-born	2,426	131	5.4	2,267	89	3.9	2,232	89	4.0	2,132	88	4.1	2,112	89	4.2	2,029	74	3.6
U.S.-born	771	64	8.3	712	45	6.3	652	58	8.9	632	39	6.2	592	50	8.4	663	52	7.8
Unknown	21	2	9.5	12	-	-	16	-	-	14	1	7.1	20	1	5.0	9	-	-
Homeless																		
No	2,965	152	5.1	2,771	108	3.9	2,691	121	4.5	2,580	101	3.9	2,548	112	4.4	2,530	108	4.3
Yes	225	40	17.8	184	23	12.5	181	25	13.8	169	23	13.6	155	27	17.4	159	18	11.3
Unknown	28	5	17.9	36	3	8.3	28	1	3.6	29	4	13.8	21	1	4.8	12	-	-
Alcohol Use																		
No	2,771	135	4.9	2,617	100	3.8	2,560	115	4.5	2,485	99	4.0	2,400	110	4.6	2,391	94	3.9
Yes	346	49	14.2	301	28	9.3	259	27	10.4	224	21	9.4	244	25	10.2	257	30	11.7
Unknown	101	13	12.9	73	6	8.2	81	5	6.2	69	8	11.6	80	5	6.3	53	2	3.8
Injecting Drug Use																		
No	3,034	160	5.3	2,843	111	3.9	2,767	128	4.6	2,669	107	4.0	2,604	120	4.6	2,606	108	4.1
Yes	73	23	31.5	71	15	21.1	61	11	18.0	42	13	31.0	45	12	26.7	37	13	35.1
Unknown	111	14	12.6	77	8	10.4	72	8	11.1	67	8	11.9	75	8	10.7	58	5	8.6
Non-injecting Drug Use																		
No	2,901	136	4.7	2,731	98	3.6	2,669	112	4.2	2,542	92	3.6	2,491	104	4.2	2,459	92	3.7
Yes	196	45	23.0	171	27	15.8	164	29	17.7	161	27	16.8	159	30	18.9	177	30	16.9
Unknown	121	16	13.2	89	9	10.1	67	6	9.0	75	9	12.0	74	6	8.1	65	4	6.2
Diagnosed in Correctional Facility																		
No	3,119	188	6.0	2,884	128	4.4	2,831	142	5.0	2,713	122	4.5	2,648	133	5.0	2,616	122	4.7
Yes	92	9	9.8	102	6	5.9	66	5	7.6	60	5	8.3	75	7	9.3	84	4	4.8
Unknown	7	-	-	5	-	-	3	-	-	5	1	20.0	1	-	-	1	-	-

* Match found in AIDS Case Registry, California Office of AIDS.
- Indicates zero cases or zero percent.

Table 12. Tuberculosis Cases, Rate per 100,000 Population, and Rank* According to Rate: Reporting Jurisdictions in California, 2008-2009

Reporting Jurisdiction	2008			2009		
	Rank	Cases	Rate	Rank	Cases	Rate
Imperial	4	19	10.6	1	35	18.9
San Francisco	1	118	14.6	2	116	14.2
Alameda	6	134	9.4	3	156	10.9
Santa Clara	3	197	10.9	4	197	10.8
San Joaquin	7	66	9.3	5	76	10.5
San Mateo	8	63	8.6	6	66	9.0
Long Beach	5	47	9.6	7	44	8.9
Los Angeles	10	792	8.1	8	706	7.2
San Diego	9	264	8.4	9	223	7.0
Fresno	13	73	7.7	10	67	6.9
Sacramento	13	110	7.7	11	97	6.7
California						**6.4**
Orange	18	209	6.6	12	196	6.1
Yolo	24	8	4.0	13	12	5.9
Ventura	12	65	7.8	14	48	5.7
Napa	33	3	.	14	8	5.7
Marin	30	6	2.4	16	14	5.5
Tulare	17	33	7.4	17	24	5.3
Santa Barbara	11	34	8.0	17	23	5.3
Solano	15	33	7.6	17	23	5.3
Madera	2	20	13.0	20	8	5.1
Kern	21	50	6.0	21	40	4.7
Contra Costa	16	79	7.5	22	47	4.4
Merced	31	5	1.9	23	11	4.1
United States						**3.8**
San Bernardino	27	74	3.5	24	79	3.7
Monterey	22	24	5.6	24	16	3.7
Stanislaus	25	21	3.9	26	20	3.6
Riverside	26	79	3.7	27	69	3.2
Santa Cruz	28	9	3.4	28	6	2.2
Placer	33	2	.	29	7	2.1
Sonoma	32	9	1.8	30	9	1.8
Year 2010 National Objective						**1.0**
Berkeley	33	4	.	31	4	.
Kings	29	5	3.2	31	4	.
Mendocino	33	4	.	31	3	.
Pasadena	23	6	4.1	31	3	.
San Luis Obispo	33	1	.	31	3	.
Butte	33	3	.	31	2	.
Calaveras	47	-	.	31	2	.
Humboldt	47	-	.	31	2	.
Tehama	33	1	.	31	2	.
El Dorado	33	4	.	31	1	.
Shasta	33	2	.	31	1	.
Sutter	20	6	6.1	31	1	.
Tuolumne	47	-	.	31	1	.
Alpine	47	-	.	44	-	.
Amador	47	-	.	44	-	.
Colusa	33	1	.	44	-	.
Del Norte	47	-	.	44	-	.
Glenn	33	1	.	44	-	.
Inyo	47	-	.	44	-	.
Lake	33	2	.	44	-	.
Lassen	47	-	.	44	-	.
Mariposa	47	-	.	44	-	.
Modoc	47	-	.	44	-	.
Mono	47	-	.	44	-	.
Nevada	33	3	.	44	-	.
Plumas	47	-	.	44	-	.
San Benito	33	1	.	44	-	.
Sierra	47	-	.	44	-	.
Siskiyou	47	-	.	44	-	.
Trinity	47	-	.	44	-	.
Yuba	19	5	6.5	44	-	.

* All jurisdictions with one to four cases are given the same rank, and all jurisdictions with zero cases are given the same rank.
- Indicates zero cases.
. Rates not calculated where number of cases is less than 5.

California Department of Public Health, Tuberculosis Control Branch

Table 13. Tuberculosis Cases by Year: Reporting Jurisdictions in California, 2000-2009

Reporting Jurisdiction	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
California	**3,297**	**3,332**	**3,169**	**3,227**	**2,989**	**2,903**	**2,779**	**2,725**	**2,695**	**2,472**	**-25.0**	**-8.3**
Alameda	242	196	199	175	144	152	141	149	134	156	-35.5	16.4
Alpine	-	-	-	-	-	-	-	-	-	-	.	.
Amador	-	-	-	-	-	-	-	-	-	-	.	.
Berkeley	4	12	11	5	4	11	5	6	4	4	.	.
Butte	4	5	1	6	4	3	3	3	3	2	.	.
Calaveras	-	1	-	-	-	-	-	1	-	2	.	.
Colusa	1	2	-	1	-	-	2	-	1	-	.	.
Contra Costa	78	105	68	82	64	58	50	51	79	47	-39.7	-40.5
Del Norte	1	-	-	1	-	-	-	-	-	-	.	.
El Dorado	4	5	3	-	3	4	4	3	4	1	.	.
Fresno	91	98	98	115	102	69	62	42	73	67	-26.4	-8.2
Glenn	1	-	-	3	-	-	1	2	1	-	.	.
Humboldt	6	7	6	2	4	4	1	-	-	2	.	.
Imperial	26	25	29	25	31	32	33	29	19	35	34.6	84.2
Inyo	1	-	1	1	-	-	-	-	-	-	.	.
Kern	49	49	57	47	36	42	40	40	50	40	-18.4	-20.0
Kings	7	11	6	3	3	9	2	6	5	4	.	.
Lake	2	2	-	1	3	-	1	1	2	-	.	.
Lassen	1	-	-	-	-	2	-	-	-	-	.	.
Long Beach	63	50	59	65	54	53	39	39	47	44	-30.2	-6.4
Los Angeles	1,066	1,046	1,025	950	930	906	885	815	792	706	-33.8	-10.9
Madera	14	11	12	14	5	9	3	1	20	8	-42.9	-60.0
Marin	11	15	12	17	13	10	6	16	6	14	27.3	133.3
Mariposa	2	-	-	-	-	-	-	-	-	-	.	.
Mendocino	4	2	7	6	1	2	4	3	4	3	.	.
Merced	10	15	16	16	8	8	9	5	5	11	10.0	120.0
Modoc	2	-	-	-	-	-	-	-	-	-	.	.
Mono	-	-	-	-	-	-	-	-	-	-	.	.
Monterey	35	39	24	54	29	37	29	22	24	16	-54.3	-33.3
Napa	3	2	7	6	7	3	7	7	3	8	.	.
Nevada	1	1	-	1	1	2	2	-	3	-	.	.
Orange	246	278	230	248	224	241	226	217	209	196	-20.3	-6.2
Pasadena	13	17	12	12	12	15	7	5	6	3	.	.
Placer	1	3	3	12	2	5	6	13	2	7	.	.
Plumas	1	-	-	-	-	-	-	-	-	-	.	.
Riverside	71	66	68	75	75	60	74	80	79	69	-2.8	-12.7
Sacramento	120	130	104	153	161	143	97	110	110	97	-19.2	-11.8
San Benito	2	6	3	2	2	-	1	-	1	-	.	.
San Bernardino	104	83	63	67	67	63	58	59	74	79	-24.0	6.8
San Diego	295	332	326	316	320	305	315	280	264	223	-24.4	-15.5
San Francisco	170	182	146	162	135	132	120	143	118	116	-31.8	-1.7
San Joaquin	72	51	52	69	65	63	78	51	66	76	5.6	15.2
San Luis Obispo	9	11	6	8	2	8	2	3	1	3	.	.
San Mateo	46	78	67	52	56	62	78	87	63	66	43.5	4.8
Santa Barbara	22	26	18	37	18	26	15	14	34	23	4.5	-32.4
Santa Clara	235	215	254	226	203	199	228	241	197	197	-16.2	0.0
Santa Cruz	4	7	6	9	9	10	6	10	9	6	.	-33.3
Shasta	5	4	4	8	4	6	5	4	2	1	.	.
Sierra	-	-	-	-	-	-	-	-	-	-	.	.
Siskiyou	1	-	-	-	-	1	-	-	-	-	.	.
Solano	27	35	26	30	42	40	25	37	33	23	-14.8	-30.3
Sonoma	16	9	16	15	20	11	14	13	9	9	-43.8	0.0
Stanislaus	18	18	22	17	19	11	16	15	21	20	11.1	-4.8
Sutter	4	5	7	5	-	1	3	1	6	1	.	.
Tehama	2	1	-	3	1	4	2	4	1	2	.	.
Trinity	-	-	-	-	-	-	1	-	-	-	.	.
Tulare	17	15	19	16	21	15	21	25	33	24	41.2	-27.3
Tuolumne	2	1	-	-	1	-	-	-	-	1	.	.
Ventura	44	52	66	74	72	55	49	57	65	48	9.1	-26.2
Yolo	9	5	4	12	5	9	3	9	8	12	33.3	50.0
Yuba	12	3	6	3	7	2	-	6	5	-	.	.

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

California Department of Public Health, Tuberculosis Control Branch

Table 14. Tuberculosis Case Rates per 100,000 Population: Reporting Jurisdictions in California, 2000-2009

Reporting Jurisdiction	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Percent Change 2000-2009	Percent Change 2008-2009
California	**9.7**	**9.6**	**9.0**	**9.0**	**8.2**	**7.9**	**7.4**	**7.2**	**7.0**	**6.4**	**-34.0**	**-8.6**
Alameda	17.9	14.3	14.4	12.6	10.3	10.9	10.0	10.5	9.4	10.9	-39.1	16.0
Alpine	.	.	.	.	.	.	.	.	.	.	.	.
Amador	.	.	.	.	.	.	.	.	.	.	.	.
Berkeley	3.9	11.6	10.5	4.8	3.8	10.6	4.7	5.7	3.8	3.7	-5.1	-2.6
Butte	.	2.4	.	2.8	.	.	.	.	.	.	.	.
Calaveras	.	.	.	.	.	.	.	.	.	.	.	.
Colusa	.	.	.	.	.	.	.	.	.	.	.	.
Contra Costa	8.2	10.7	6.9	8.2	6.3	5.7	4.8	4.9	7.5	4.4	-46.3	-41.3
Del Norte	.	.	.	.	.	.	.	.	.	.	.	.
El Dorado	.	3.1	.	.	.	.	.	.	.	.	.	.
Fresno	11.3	11.9	11.7	13.4	11.7	7.7	6.8	4.5	7.7	6.9	-38.9	-10.4
Glenn	.	.	.	.	.	.	.	.	.	.	.	.
Humboldt	4.7	5.5	4.7	.	.	.	.	.	.	.	.	.
Imperial	18.1	17.1	19.3	16.1	19.4	19.4	19.4	16.6	10.6	18.9	4.4	78.3
Inyo	.	.	.	.	.	.	.	.	.	.	.	.
Kern	7.4	7.2	8.2	6.5	4.8	5.5	5.0	4.9	6.0	4.7	-36.5	-21.7
Kings	5.4	8.3	4.4	.	.	6.1	.	3.9	3.2	.	.	.
Lake	.	.	.	.	.	.	.	.	.	.	.	.
Lassen	.	.	.	.	.	.	.	.	.	.	.	.
Long Beach	13.7	10.7	12.5	13.5	11.1	10.9	8.0	8.0	9.6	8.9	-35.0	-7.3
Los Angeles	11.9	11.4	11.0	10.1	9.8	9.5	9.2	8.4	8.1	7.2	-39.5	-11.1
Madera	11.2	8.6	9.2	10.4	3.6	6.3	.	.	13.0	5.1	-54.5	-60.8
Marin	4.4	6.0	4.8	6.8	5.2	4.0	2.4	6.3	2.4	5.5	25.0	129.2
Mariposa	.	.	.	.	.	.	.	.	.	.	.	.
Mendocino	.	.	7.9	6.7	.	.	.	.	.	.	.	.
Merced	4.7	6.9	7.1	6.9	3.4	3.3	3.6	2.0	1.9	4.1	-12.8	115.8
Modoc	.	.	.	.	.	.	.	.	.	.	.	.
Mono	.	.	.	.	.	.	.	.	.	.	.	.
Monterey	8.7	9.5	5.8	12.8	6.9	8.8	6.9	5.2	5.6	3.7	-57.5	-33.9
Napa	.	.	5.4	4.6	5.3	.	5.2	5.1	.	5.7	.	.
Nevada	.	.	.	.	.	.	.	.	.	.	.	.
Orange	8.6	9.5	7.8	8.3	7.4	7.9	7.3	7.0	6.6	6.2	-27.9	-6.1
Pasadena	9.7	12.5	8.7	8.5	8.4	10.3	4.8	3.4	4.1	.	.	.
Placer	.	.	.	4.1	.	1.6	1.9	4.0	.	2.1	.	.
Plumas	.	.	.	.	.	.	.	.	.	.	.	.
Riverside	4.6	4.1	4.0	4.2	4.1	3.1	3.7	3.9	3.7	3.2	-30.4	-13.5
Sacramento	9.7	10.2	8.0	11.5	11.9	10.4	7.0	7.8	7.7	6.8	-29.9	-11.7
San Benito	.	10.8	.	.	.	.	.	.	.	.	.	.
San Bernardino	6.0	4.7	3.5	3.6	3.5	3.2	2.9	2.9	3.5	3.7	-38.3	5.7
San Diego	10.4	11.5	11.1	10.6	10.6	10.0	10.2	9.0	8.4	7.0	-32.7	-16.7
San Francisco	21.8	23.1	18.5	20.5	17.0	16.6	15.0	17.7	14.6	14.1	-35.3	-3.4
San Joaquin	12.7	8.6	8.5	11.0	10.1	9.5	11.6	7.4	9.3	10.5	-17.3	12.9
San Luis Obispo	3.6	4.4	2.4	3.1	.	3.1	.	.	.	.	.	.
San Mateo	6.5	10.9	9.4	7.2	7.8	8.6	10.7	11.9	8.6	9.0	38.5	4.7
Santa Barbara	5.5	6.4	4.4	8.9	4.3	6.2	3.6	3.3	8.0	5.3	-3.6	-33.8
Santa Clara	13.9	12.6	14.8	13.0	11.6	11.3	12.8	13.4	10.9	10.8	-22.3	-0.9
Santa Cruz	.	2.7	2.3	3.5	3.5	3.8	2.3	3.8	3.4	1.9	.	-44.1
Shasta	3.0	.	.	4.6	.	3.3	2.8	.	.	.	.	.
Sierra	.	.	.	.	.	.	.	.	.	.	.	.
Siskiyou	.	.	.	.	.	.	.	.	.	.	.	.
Solano	6.8	8.6	6.3	7.2	10.0	9.5	5.9	8.7	7.6	5.3	-22.1	-30.3
Sonoma	3.5	1.9	3.4	3.2	4.2	2.3	2.9	2.7	1.8	1.8	-48.6	0.0
Stanislaus	4.0	3.9	4.6	3.5	3.8	2.2	3.1	2.8	3.9	3.6	-10.0	-7.7
Sutter	.	6.2	8.4	5.8	.	.	.	.	6.1	.	.	.
Tehama	.	.	.	.	.	.	.	.	.	.	.	.
Trinity	.	.	.	.	.	.	.	.	.	.	.	.
Tulare	4.6	4.0	4.9	4.0	5.2	3.6	4.9	5.7	7.4	5.3	15.2	-28.4
Tuolumne	.	.	.	.	.	.	.	.	.	.	.	.
Ventura	5.8	6.7	8.4	9.3	8.9	6.8	6.0	6.9	7.8	5.7	-1.7	-26.9
Yolo	5.3	2.8	.	6.6	2.7	4.8	.	4.6	4.0	5.9	11.3	47.5
Yuba	19.8	.	9.5	.	10.5	.	.	8.0	6.5	.	.	.

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

California Department of Public Health, Tuberculosis Control Branch

Table 15. Tuberculosis Cases by Age Group: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	All Cases	Age Group					
		0-4	5-14	15-24	25-44	45-64	65+
California	**2,472**	**70**	**54**	**231**	**738**	**746**	**633**
Alameda	156	4	1	16	47	44	44
Contra Costa	47	1	1	3	16	12	14
Fresno	67	3	3	7	13	25	16
Imperial	35	-	-	5	6	16	8
Kern	40	1	-	8	10	14	7
Long Beach	44	1	-	4	11	16	12
Los Angeles	706	14	14	61	210	230	177
Madera	8	-	1	1	3	1	2
Marin	14	-	1	3	4	4	2
Merced	11	-	-	1	1	6	3
Monterey	16	1	-	1	5	5	4
Napa	8	1	1	-	2	2	2
Orange	197	4	1	15	66	64	47
Placer	7	-	-	1	4	1	1
Riverside	69	2	-	7	28	14	18
Sacramento	98	1	3	8	21	31	34
San Bernardino	79	5	3	7	30	19	15
San Diego	223	9	9	21	77	55	52
San Francisco	115	2	3	9	25	40	36
San Joaquin	76	7	5	8	14	23	19
San Mateo	66	-	2	6	18	21	19
Santa Barbara	23	2	1	-	9	7	4
Santa Clara	197	6	1	11	75	51	53
Santa Cruz	5	-	-	-	1	2	2
Solano	23	-	2	-	7	10	4
Sonoma	9	-	-	-	1	4	4
Stanislaus	20	-	1	1	4	6	8
Tulare	24	3	-	9	7	2	3
Ventura	48	3	1	9	15	11	9
Yolo	12	-	-	4	3	2	3
All Other Jurisdictions*	29	-	-	5	5	8	11

- 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, 2001-2009

Reporting Jurisdiction	2001		2002		2003		2004		2005		2006		2007		2008		2009	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**132**	**4.0**	**127**	**4.0**	**131**	**4.1**	**116**	**3.9**	**85**	**2.9**	**91**	**3.3**	**89**	**3.3**	**87**	**3.2**	**70**	**2.8**
Alameda	3	1.5	13	6.5	3	1.7	1	0.7	3	1.9	-	-	3	2.0	1	0.7	4	2.6
Contra Costa	5	4.8	1	1.4	5	6.1	-	-	-	-	1	2.0	3	5.9	3	3.8	1	2.1
Fresno	11	11.3	25	25.3	27	23.5	19	18.6	5	7.2	3	4.8	2	4.8	8	10.7	3	4.5
Imperial	-	-	1	3.4	-	-	2	6.5	2	6.3	3	9.1	1	3.4	1	4.8	-	-
Kern	1	1.9	1	1.7	2	4.3	3	8.3	1	2.4	1	2.4	2	5.3	1	2.0	1	2.5
Long Beach	1	2.0	9	15.3	4	6.2	1	1.9	-	-	-	-	2	5.1	1	2.1	1	2.3
Los Angeles	31	3.0	20	2.0	21	2.2	27	2.9	26	2.9	31	3.5	27	3.3	23	2.9	14	2.0
Marin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merced	2	13.3	1	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	3	7.9	-	-	7	13.0	3	10.3	1	2.7	3	10.3	-	-	4	16.7	1	6.3
Orange	13	4.7	9	3.9	6	2.4	4	1.7	4	1.7	8	3.5	9	4.1	6	2.9	4	2.0
Riverside	-	-	5	7.4	4	5.4	4	5.3	1	1.7	1	1.4	1	1.3	3	3.8	2	2.9
Sacramento	4	3.1	8	7.7	2	1.3	5	3.2	4	2.8	-	-	4	3.7	1	0.9	1	1.0
San Bernardino	8	9.6	1	1.6	1	1.5	3	4.4	3	4.8	3	5.2	-	-	-	-	5	6.3
San Diego	18	5.4	10	3.1	15	4.7	15	4.7	14	4.6	19	6.0	10	3.6	5	1.9	9	4.0
San Francisco	4	2.2	3	2.1	2	1.2	5	3.7	2	1.5	1	0.8	1	0.7	4	3.4	2	1.7
San Joaquin	1	2.0	-	-	2	2.9	3	4.6	4	6.3	3	3.8	4	7.8	4	6.1	7	9.2
San Mateo	3	3.9	5	7.4	4	7.7	1	1.8	2	3.2	-	-	2	2.2	3	4.7	-	-
Santa Barbara	2	7.7	2	11.8	4	10.8	-	-	2	7.7	-	-	-	-	3	8.8	2	8.7
Santa Clara	9	4.2	4	1.6	7	3.1	4	2.0	3	1.5	6	2.6	6	2.5	5	2.5	6	3.0
Santa Cruz	-	-	-	-	-	-	-	-	1	10.0	-	-	-	-	-	-	-	-
Solano	4	11.4	2	7.7	3	10.3	2	4.8	-	-	3	11.5	-	-	3	9.1	-	-
Sonoma	-	-	1	5.9	-	-	2	9.5	-	-	-	-	-	-	1	11.1	-	-
Stanislaus	-	-	-	-	-	-	2	10.5	-	-	-	-	-	-	-	-	-	-
Tulare	1	6.7	2	10.5	1	6.3	4	19.0	-	-	2	9.5	1	4.0	4	12.1	3	12.5
Ventura	1	1.9	2	3.0	7	9.6	3	4.2	-	-	1	2.0	4	7.0	1	1.5	3	6.3
All Other Jurisdictions*	7	5.9	2	2.0	4	3.4	3	4.1	7	7.1	2	3.0	7	8.8	2	2.4	1	1.6

- Indicates zero cases or zero percent.
* Reporting jurisdictions with fewer than 5 total cases in any year.

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Table 17. Tuberculosis Cases by Race/Ethnicity: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Race/Ethnicity							
		White Not Hispanic	Black Not Hispanic	Hispanic	Asian	Amer Indian/ Alaska Native	Nat Hawaiian/ Pacific Islander	Multi-race*	Unknown
California	**2,472**	**216**	**188**	**917**	**1,121**	**4**	**13**	**7**	**6**
Alameda	156	9	33	24	86	-	4	-	-
Contra Costa	47	5	6	11	25	-	-	-	-
Fresno	67	4	3	32	28	-	-	-	-
Imperial	35	2	-	33	-	-	-	-	-
Kern	40	1	2	30	5	1	-	1	-
Long Beach	44	2	6	13	22	-	1	-	-
Los Angeles	706	46	57	329	272	-	-	1	1
Madera	8	1	-	7	-	-	-	-	-
Marin	14	2	-	8	4	-	-	-	-
Merced	11	-	1	4	5	-	-	-	1
Monterey	16	1	-	8	7	-	-	-	-
Napa	8	1	-	4	3	-	-	-	-
Orange	197	13	3	63	117	-	1	-	-
Placer	7	-	-	1	6	-	-	-	-
Riverside	69	13	3	32	21	-	-	-	-
Sacramento	98	21	7	11	57	-	-	1	1
San Bernardino	79	11	6	28	29	1	2	2	-
San Diego	223	20	21	107	73	-	2	-	-
San Francisco	115	13	11	15	74	1	-	1	-
San Joaquin	76	4	4	26	41	-	-	1	-
San Mateo	66	6	3	6	47	-	3	-	1
Santa Barbara	23	1	2	17	3	-	-	-	-
Santa Clara	197	11	10	30	145	-	-	-	1
Santa Cruz	5	-	-	3	2	-	-	-	-
Solano	23	1	5	1	16	-	-	-	-
Sonoma	9	2	-	6	1	-	-	-	-
Stanislaus	20	5	1	8	5	1	-	-	-
Tulare	24	2	2	19	1	-	-	-	-
Ventura	48	7	-	32	9	-	-	-	-
Yolo	12	-	-	3	9	-	-	-	-
All Other Jurisdictions**	29	12	2	6	8	-	-	-	1

* Two or more races reported.
- Indicates zero cases.
** Reporting jurisdictions with fewer than 5 cases.

Table 18. Tuberculosis Cases by U.S.-born and Foreign-born Persons: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	All Cases	U.S.-born		Foreign-born		Unknown	
		No.	%	No.	%	No.	%
California	**2,472**	**583**	**23.6**	**1,867**	**75.5**	**22**	**0.9**
Alameda	156	37	23.7	119	76.3	-	-
Contra Costa	47	10	21.3	37	78.7	-	-
Fresno	67	22	32.8	44	65.7	1	1.5
Imperial	35	12	34.3	22	62.9	1	2.9
Kern	40	10	25.0	30	75.0	-	-
Long Beach	44	10	22.7	34	77.3	-	-
Los Angeles	706	152	21.5	544	77.1	10	1.4
Madera	8	4	50.0	4	50.0	-	-
Marin	14	4	28.6	10	71.4	-	-
Merced	11	2	18.2	9	81.8	-	-
Monterey	16	3	18.8	13	81.3	-	-
Napa	8	3	37.5	5	62.5	-	-
Orange	197	25	12.7	171	86.8	1	0.5
Placer	7	-	-	7	100.0	-	-
Riverside	69	20	29.0	49	71.0	-	-
Sacramento	98	28	28.6	65	66.3	5	5.1
San Bernardino	79	25	31.6	54	68.4	-	-
San Diego	223	74	33.2	149	66.8	-	-
San Francisco	115	27	23.5	88	76.5	-	-
San Joaquin	76	25	32.9	51	67.1	-	-
San Mateo	66	8	12.1	57	86.4	1	1.5
Santa Barbara	23	4	17.4	18	78.3	1	4.3
Santa Clara	197	20	10.2	175	88.8	2	1.0
Santa Cruz	5	-	-	5	100.0	-	-
Solano	23	7	30.4	16	69.6	-	-
Sonoma	9	1	11.1	8	88.9	-	-
Stanislaus	20	7	35.0	13	65.0	-	-
Tulare	24	12	50.0	12	50.0	-	-
Ventura	48	14	29.2	34	70.8	-	-
Yolo	12	3	25.0	9	75.0	-	-
All Other Jurisdictions*	29	14	48.3	15	51.7	-	-

- Indicates zero cases or zero percent.

* Reporting jurisdictions with fewer than 5 cases.

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Table 19. Tuberculosis Cases in Foreign-born Persons by Time in the United States: Reporting Jurisdictions in California, 2009

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	**1,867**	**183**	**9.8**	**73**	**3.9**	**217**	**11.6**	**289**	**15.5**	**412**	**22.1**	**625**	**33.5**	**68**	**3.6**
Alameda	119	10	8.4	6	5.0	19	16.0	20	16.8	24	20.2	36	30.3	4	3.4
Contra Costa	37	4	10.8	-	-	2	5.4	3	8.1	15	40.5	12	32.4	1	2.7
Fresno	44	2	4.5	1	2.3	7	15.9	9	20.5	6	13.6	19	43.2	-	-
Imperial	22	3	13.6	-	-	2	9.1	2	9.1	6	27.3	9	40.9	-	-
Kern	30	1	3.3	2	6.7	4	13.3	5	16.7	8	26.7	9	30.0	1	3.3
Long Beach	34	5	14.7	-	-	3	8.8	6	17.6	5	14.7	10	29.4	5	14.7
Los Angeles	544	39	7.2	25	4.6	64	11.8	83	15.3	104	19.1	204	37.5	25	4.6
Madera	4	-	-	-	-	2	50.0	-	-	-	-	2	50.0	-	-
Marin	10	2	20.0	1	10.0	2	20.0	2	20.0	1	10.0	2	20.0	-	-
Merced	9	-	-	-	-	-	-	1	11.1	2	22.2	6	66.7	-	-
Monterey	13	3	23.1	1	7.7	-	-	1	7.7	3	23.1	5	38.5	-	-
Napa	5	1	20.0	-	-	1	20.0	-	-	1	20.0	2	40.0	-	-
Orange	171	16	9.4	4	2.3	21	12.3	19	11.1	56	32.7	48	28.1	7	4.1
Placer	7	-	-	-	-	2	28.6	3	42.9	1	14.3	1	14.3	-	-
Riverside	49	3	6.1	1	2.0	4	8.2	16	32.7	10	20.4	15	30.6	-	-
Sacramento	65	14	21.5	5	7.7	8	12.3	5	7.7	17	26.2	16	24.6	-	-
San Bernardino	54	4	7.4	1	1.9	6	11.1	11	20.4	10	18.5	19	35.2	3	5.6
San Diego	149	17	11.4	8	5.4	7	4.7	29	19.5	33	22.1	55	36.9	-	-
San Francisco	88	12	13.6	5	5.7	9	10.2	11	12.5	14	15.9	37	42.0	-	-
San Joaquin	51	4	7.8	1	2.0	6	11.8	3	5.9	13	25.5	23	45.1	1	2.0
San Mateo	57	5	8.8	2	3.5	9	15.8	6	10.5	14	24.6	19	33.3	2	3.5
Santa Barbara	18	5	27.8	-	-	2	11.1	5	27.8	3	16.7	3	16.7	-	-
Santa Clara	175	19	10.9	6	3.4	20	11.4	32	18.3	46	26.3	41	23.4	11	6.3
Santa Cruz	5	1	20.0	-	-	1	20.0	-	-	1	20.0	1	20.0	1	20.0
Solano	16	3	18.8	-	-	-	-	1	6.3	6	37.5	6	37.5	-	-
Sonoma	8	-	-	-	-	1	12.5	3	37.5	1	12.5	3	37.5	-	-
Stanislaus	13	1	7.7	-	-	-	-	1	7.7	1	7.7	8	61.5	2	15.4
Tulare	12	-	-	1	8.3	6	50.0	1	8.3	2	16.7	-	-	2	16.7
Ventura	34	6	17.6	1	2.9	7	20.6	3	8.8	6	17.6	11	32.4	-	-
Yolo	9	2	22.2	-	-	-	-	6	66.7	1	11.1	-	-	-	-
All Other Jurisdictions*	15	1	6.7	2	13.3	2	13.3	2	13.3	2	13.3	3	20.0	3	20.0

- Indicates zero cases or zero percent.
* Reporting jurisdictions with fewer than 5 total cases.

Table 20. Tuberculosis Cases by Form of Disease: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Pulmonary*		Extrapulmonary**		Both Pulmonary and Extrapulmonary Disease	
		No.	%	No.	%	No.	%
California	**2,472**	**1,682**	**68.0**	**571**	**23.1**	**218**	**8.8**
Alameda	156	110	70.5	37	23.7	9	5.8
Alpine	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-
Berkeley	4	4	100.0	-	-	-	-
Butte	2	2	100.0	-	-	-	-
Calaveras	2	2	100.0	-	-	-	-
Colusa	-	-	-	-	-	-	-
Contra Costa	47	30	63.8	12	25.5	5	10.6
Del Norte	-	-	-	-	-	-	-
El Dorado	1	-	-	1	100.0	-	-
Fresno	67	51	76.1	14	20.9	2	3.0
Glenn	-	-	-	-	-	-	-
Humboldt	2	2	100.0	-	-	-	-
Imperial	35	30	85.7	5	14.3	-	-
Inyo	-	-	-	-	-	-	-
Kern	40	32	80.0	6	15.0	2	5.0
Kings	4	2	50.0	1	25.0	1	25.0
Lake	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-
Long Beach	44	32	72.7	10	22.7	2	4.5
Los Angeles	706	459	65.0	185	26.2	62	8.8
Madera	8	6	75.0	2	25.0	-	-
Marin	14	7	50.0	6	42.9	1	7.1
Mariposa	-	-	-	-	-	-	-
Mendocino	3	3	100.0	-	-	-	-
Merced	11	9	81.8	2	18.2	-	-
Modoc	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-
Monterey	16	9	56.3	5	31.3	2	12.5
Napa	8	3	37.5	3	37.5	2	25.0
Nevada	-	-	-	-	-	-	-
Orange	197	131	66.5	43	21.8	23	11.7
Pasadena	3	1	33.3	2	66.7	-	-
Placer	7	5	71.4	1	14.3	1	14.3
Plumas	-	-	-	-	-	-	-
Riverside	69	51	73.9	17	24.6	1	1.4
Sacramento	98	79	80.6	11	11.2	8	8.2
San Benito	-	-	-	-	-	-	-
San Bernardino	79	51	64.6	25	31.6	3	3.8
San Diego	223	141	63.2	45	20.2	37	16.6
San Francisco	115	73	63.5	24	20.9	18	15.7
San Joaquin	76	59	77.6	12	15.8	5	6.6
San Luis Obispo	3	3	100.0	-	-	-	-
San Mateo	66	45	68.2	18	27.3	3	4.5
Santa Barbara	23	16	69.6	6	26.1	-	-
Santa Clara	197	136	69.0	49	24.9	12	6.1
Santa Cruz	5	4	80.0	1	20.0	-	-
Shasta	1	1	100.0	-	-	-	-
Sierra	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-
Solano	23	13	56.5	3	13.0	7	30.4
Sonoma	9	5	55.6	3	33.3	1	11.1
Stanislaus	20	13	65.0	7	35.0	-	-
Sutter	1	1	100.0	-	-	-	-
Tehama	2	1	50.0	1	50.0	-	-
Trinity	-	-	-	-	-	-	-
Tulare	24	18	75.0	3	12.5	3	12.5
Tuolumne	1	-	-	-	-	1	100.0
Ventura	48	32	66.7	9	18.8	7	14.6
Yolo	12	10	83.3	2	16.7	-	-
Yuba	-	-	-	-	-	-	-

* Includes cases with pulmonary listed as major site of disease and no additional site of disease.

** Includes cases with pleural, lymphatic, bone and/or joint, meningeal, miliary, peritoneal, or other site listed as major site of disease. No cases with pulmonary listed as either major or additional site of disease are included.

- Indicates zero cases or zero percent.

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Table 21. Tuberculosis Cases by Verification Criteria: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Positive Culture		Positive Smear		Clinical Case		Provider Diagnosis	
		No.	%	No.	%	No.	%	No.	%
California	**2,472**	**1,963**	**79.4**	**12**	**0.5**	**299**	**12.1**	**198**	**8.0**
Alameda	156	112	71.8	-	-	32	20.5	12	7.7
Alpine	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-
Berkeley	4	2	50.0	-	-	-	-	2	50.0
Butte	2	2	100.0	-	-	-	-	-	-
Calaveras	2	2	100.0	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-
Contra Costa	47	34	72.3	-	-	9	19.1	4	8.5
Del Norte	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	-	-	1	100.0	-	-
Fresno	67	49	73.1	-	-	8	11.9	10	14.9
Glenn	-	-	-	-	-	-	-	-	-
Humboldt	2	1	50.0	-	-	1	50.0	-	-
Imperial	35	34	97.1	-	-	1	2.9	-	-
Inyo	-	-	-	-	-	-	-	-	-
Kern	40	37	92.5	-	-	2	5.0	1	2.5
Kings	4	4	100.0	-	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-
Long Beach	44	40	90.9	-	-	4	9.1	-	-
Los Angeles	706	566	80.2	2	0.3	100	14.2	38	5.4
Madera	8	5	62.5	-	-	2	25.0	1	12.5
Marin	14	8	57.1	-	-	2	14.3	4	28.6
Mariposa	-	-	-	-	-	-	-	-	-
Mendocino	3	1	33.3	-	-	-	-	2	66.7
Merced	11	11	100.0	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-
Monterey	16	13	81.3	-	-	-	-	3	18.8
Napa	8	4	50.0	-	-	2	25.0	2	25.0
Nevada	-	-	-	-	-	-	-	-	-
Orange	197	169	85.8	-	-	23	11.7	5	2.5
Pasadena	3	3	100.0	-	-	-	-	-	-
Placer	7	4	57.1	-	-	1	14.3	2	28.6
Plumas	-	-	-	-	-	-	-	-	-
Riverside	69	60	87.0	3	4.3	1	1.4	5	7.2
Sacramento	98	72	73.5	1	1.0	8	8.2	17	17.3
San Benito	-	-	-	-	-	-	-	-	-
San Bernardino	79	63	79.7	1	1.3	6	7.6	9	11.4
San Diego	223	176	78.9	-	-	24	10.8	23	10.3
San Francisco	115	85	73.9	-	-	21	18.3	9	7.8
San Joaquin	76	57	75.0	-	-	15	19.7	4	5.3
San Luis Obispo	3	3	100.0	-	-	-	-	-	-
San Mateo	66	56	84.8	1	1.5	3	4.5	6	9.1
Santa Barbara	23	18	78.3	-	-	1	4.3	4	17.4
Santa Clara	197	160	81.2	3	1.5	13	6.6	21	10.7
Santa Cruz	5	5	100.0	-	-	-	-	-	-
Shasta	1	1	100.0	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-
Solano	23	18	78.3	-	-	4	17.4	1	4.3
Sonoma	9	8	88.9	-	-	1	11.1	-	-
Stanislaus	20	20	100.0	-	-	-	-	-	-
Sutter	1	-	-	1	100.0	-	-	-	-
Tehama	2	1	50.0	-	-	-	-	1	50.0
Trinity	-	-	-	-	-	-	-	-	-
Tulare	24	15	62.5	-	-	5	20.8	4	16.7
Tuolumne	1	1	100.0	-	-	-	-	-	-
Ventura	48	36	75.0	-	-	7	14.6	5	10.4
Yolo	12	7	58.3	-	-	2	16.7	3	25.0
Yuba	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent.

Table 22. Tuberculosis Cases by Sputum Smear Status: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Pulmonary Cases	Sputum Smear Results							
		Smear Positive		Smear Negative		Smear Not Done		Unknown	
		No.	%	No.	%	No.	%	No.	%
California	**1,900**	**946**	**49.8**	**813**	**42.8**	**131**	**6.9**	**10**	**0.5**
Alameda	119	46	38.7	64	53.8	9	7.6	-	-
Alpine	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-
Berkeley	4	2	50.0	2	50.0	-	-	-	-
Butte	2	1	50.0	1	50.0	-	-	-	-
Calaveras	2	2	100.0	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-
Contra Costa	35	11	31.4	21	60.0	3	8.6	-	-
Del Norte	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-
Fresno	53	28	52.8	20	37.7	4	7.5	1	1.9
Glenn	-	-	-	-	-	-	-	-	-
Humboldt	2	1	50.0	1	50.0	-	-	-	-
Imperial	30	18	60.0	12	40.0	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-
Kern	34	21	61.8	11	32.4	2	5.9	-	-
Kings	3	2	66.7	1	33.3	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-
Long Beach	34	20	58.8	11	32.4	3	8.8	-	-
Los Angeles	521	279	53.6	205	39.3	37	7.1	-	-
Madera	6	1	16.7	3	50.0	2	33.3	-	-
Marin	8	3	37.5	5	62.5	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-
Mendocino	3	2	66.7	1	33.3	-	-	-	-
Merced	9	8	88.9	1	11.1	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-
Monterey	11	4	36.4	6	54.5	1	9.1	-	-
Napa	5	-	-	4	80.0	1	20.0	-	-
Nevada	-	-	-	-	-	-	-	-	-
Orange	154	92	59.7	58	37.7	4	2.6	-	-
Pasadena	1	1	100.0	-	-	-	-	-	-
Placer	6	5	83.3	1	16.7	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-
Riverside	52	24	46.2	22	42.3	6	11.5	-	-
Sacramento	87	41	47.1	38	43.7	5	5.7	3	3.4
San Benito	-	-	-	-	-	-	-	-	-
San Bernardino	54	31	57.4	17	31.5	4	7.4	2	3.7
San Diego	178	85	47.8	83	46.6	10	5.6	-	-
San Francisco	91	44	48.4	42	46.2	5	5.5	-	-
San Joaquin	64	28	43.8	25	39.1	11	17.2	-	-
San Luis Obispo	3	2	66.7	1	33.3	-	-	-	-
San Mateo	48	17	35.4	27	56.3	3	6.3	1	2.1
Santa Barbara	16	8	50.0	6	37.5	2	12.5	-	-
Santa Clara	148	63	42.6	75	50.7	10	6.8	-	-
Santa Cruz	4	2	50.0	2	50.0	-	-	-	-
Shasta	1	-	-	1	100.0	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-
Solano	20	12	60.0	6	30.0	2	10.0	-	-
Sonoma	6	4	66.7	2	33.3	-	-	-	-
Stanislaus	13	4	30.8	8	61.5	1	7.7	-	-
Sutter	1	1	100.0	-	-	-	-	-	-
Tehama	1	-	-	1	100.0	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-
Tulare	21	11	52.4	7	33.3	3	14.3	-	-
Tuolumne	1	1	100.0	-	-	-	-	-	-
Ventura	39	15	38.5	18	46.2	3	7.7	3	7.7
Yolo	10	6	60.0	4	40.0	-	-	-	-
Yuba	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 23. Tuberculosis Cases by Chest X-ray Status: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Pulmonary Cases	Cases with Abnormal Chest X-ray	Type of Abnormal Finding: Cavitary		Non-Cavitary Consistent w/ TB		Non-Cavitary Not Consistent w/ TB		Unknown	
			No.	%	No.	%	No.	%	No.	%
California	**1,900**	**1,837**	**484**	**26.3**	**1,306**	**71.1**	**41**	**2.2**	**6**	**0.3**
Alameda	119	115	21	18.3	94	81.7	-	-	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	4	4	-	-	3	75.0	-	-	1	25.0
Butte	2	2	1	50.0	1	50.0	-	-	-	-
Calaveras	2	2	-	-	1	50.0	1	50.0	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	35	35	5	14.3	30	85.7	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	53	52	21	40.4	28	53.8	2	3.8	1	1.9
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	2	2	1	50.0	1	50.0	-	-	-	-
Imperial	30	30	9	30.0	21	70.0	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	34	32	15	46.9	13	40.6	2	6.3	2	6.3
Kings	3	3	1	33.3	2	66.7	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	34	33	11	33.3	22	66.7	-	-	-	-
Los Angeles	521	497	123	24.7	374	75.3	-	-	-	-
Madera	6	5	1	20.0	2	40.0	2	40.0	-	-
Marin	8	8	3	37.5	4	50.0	-	-	1	12.5
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	3	3	1	33.3	1	33.3	1	33.3	-	-
Merced	9	9	5	55.6	4	44.4	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	11	11	3	27.3	7	63.6	1	9.1	-	-
Napa	5	5	1	20.0	3	60.0	1	20.0	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	154	146	43	29.5	101	69.2	2	1.4	-	-
Pasadena	1	1	-	-	1	100.0	-	-	-	-
Placer	6	6	2	33.3	4	66.7	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	52	52	18	34.6	34	65.4	-	-	-	-
Sacramento	87	86	15	17.4	68	79.1	3	3.5	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	54	51	21	41.2	28	54.9	2	3.9	-	-
San Diego	178	177	37	20.9	140	79.1	-	-	-	-
San Francisco	91	91	18	19.8	72	79.1	1	1.1	-	-
San Joaquin	64	63	24	38.1	39	61.9	-	-	-	-
San Luis Obispo	3	2	1	50.0	1	50.0	-	-	-	-
San Mateo	48	45	14	31.1	31	68.9	-	-	-	-
Santa Barbara	16	15	3	20.0	11	73.3	1	6.7	-	-
Santa Clara	148	140	34	24.3	88	62.9	18	12.9	-	-
Santa Cruz	4	4	1	25.0	3	75.0	-	-	-	-
Shasta	1	1	-	-	-	-	1	100.0	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	20	19	5	26.3	12	63.2	2	10.5	-	-
Sonoma	6	6	2	33.3	3	50.0	-	-	1	16.7
Stanislaus	13	13	2	15.4	10	76.9	1	7.7	-	-
Sutter	1	1	-	-	1	100.0	-	-	-	-
Tehama	1	1	1	100.0	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	21	20	13	65.0	7	35.0	-	-	-	-
Tuolumne	1	-	-	-	-	-	-	-	-	-
Ventura	39	39	6	15.4	33	84.6	-	-	-	-
Yolo	10	10	2	20.0	8	80.0	-	-	-	-
Yuba	-	-	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 24. Tuberculosis Cases by Vital Status at Diagnosis and Initiation of Treatment: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Dead at Diagnosis		Alive at Diagnosis		Alive and Started Treatment	
		No.	%	No.	%	No.	%
California	**2,472**	**42**	**1.7**	**2,427**	**98.2**	**2,392**	**96.8**
Alameda	156	2	1.3	154	98.7	153	98.1
Alpine	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-
Berkeley	4	-	-	4	100.0	4	100.0
Butte	2	-	-	2	100.0	2	100.0
Calaveras	2	-	-	2	100.0	2	100.0
Colusa	-	-	-	-	-	-	-
Contra Costa	47	-	-	47	100.0	47	100.0
Del Norte	-	-	-	-	-	-	-
El Dorado	1	-	-	1	100.0	1	100.0
Fresno	67	1	1.5	66	98.5	66	98.5
Glenn	-	-	-	-	-	-	-
Humboldt	2	-	-	2	100.0	2	100.0
Imperial	35	-	-	35	100.0	33	94.3
Inyo	-	-	-	-	-	-	-
Kern	40	1	2.5	38	95.0	38	95.0
Kings	4	-	-	4	100.0	4	100.0
Lake	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-
Long Beach	44	1	2.3	43	97.7	43	97.7
Los Angeles	706	16	2.3	690	97.7	669	94.8
Madera	8	-	-	8	100.0	8	100.0
Marin	14	-	-	14	100.0	14	100.0
Mariposa	-	-	-	-	-	-	-
Mendocino	3	-	-	3	100.0	3	100.0
Merced	11	1	9.1	10	90.9	10	90.9
Modoc	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-
Monterey	16	-	-	16	100.0	16	100.0
Napa	8	-	-	8	100.0	8	100.0
Nevada	-	-	-	-	-	-	-
Orange	197	2	1.0	195	99.0	194	98.5
Pasadena	3	-	-	3	100.0	3	100.0
Placer	7	-	-	7	100.0	7	100.0
Plumas	-	-	-	-	-	-	-
Riverside	69	3	4.3	66	95.7	65	94.2
Sacramento	98	1	1.0	97	99.0	95	96.9
San Benito	-	-	-	-	-	-	-
San Bernardino	79	-	-	79	100.0	79	100.0
San Diego	223	4	1.8	219	98.2	218	97.8
San Francisco	115	-	-	115	100.0	115	100.0
San Joaquin	76	4	5.3	72	94.7	72	94.7
San Luis Obispo	3	-	-	3	100.0	3	100.0
San Mateo	66	-	-	66	100.0	65	98.5
Santa Barbara	23	-	-	23	100.0	21	91.3
Santa Clara	197	1	0.5	196	99.5	193	98.0
Santa Cruz	5	-	-	5	100.0	5	100.0
Shasta	1	-	-	1	100.0	1	100.0
Sierra	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-
Solano	23	-	-	23	100.0	23	100.0
Sonoma	9	-	-	7	77.8	7	77.8
Stanislaus	20	2	10.0	18	90.0	18	90.0
Sutter	1	-	-	1	100.0	1	100.0
Tehama	2	-	-	2	100.0	2	100.0
Trinity	-	-	-	-	-	-	-
Tulare	24	-	-	24	100.0	24	100.0
Tuolumne	1	-	-	1	100.0	1	100.0
Ventura	48	1	2.1	47	97.9	47	97.9
Yolo	12	2	16.7	10	83.3	10	83.3
Yuba	-	-	-	-	-	-	-

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 25. Deaths in Persons with Tuberculosis: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Total Cases	Total Deaths		Timing of Death: Dead at Diagnosis		Timing of Death: Died Before Starting TB Treatment		Timing of Death: Died During TB Treatment	
		No.	%	No.	%	No.	%	No.	%
California	**2,726**	**221**	**8.1**	**48**	**1.8**	**8**	**0.3**	**165**	**6.1**
Alameda	149	7	4.7	-	-	-	-	7	4.7
Alpine	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-
Berkeley	6	-	-	-	-	-	-	-	-
Butte	3	-	-	-	-	-	-	-	-
Calaveras	1	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-
Contra Costa	51	4	7.8	1	2.0	-	-	3	5.9
Del Norte	-	-	-	-	-	-	-	-	-
El Dorado	3	1	33.3	-	-	-	-	1	33.3
Fresno	42	2	4.8	1	2.4	-	-	1	2.4
Glenn	2	1	50.0	-	-	-	-	1	50.0
Humboldt	-	-	-	-	-	-	-	-	-
Imperial	29	5	17.2	-	-	1	3.4	4	13.8
Inyo	1	-	-	-	-	-	-	-	-
Kern	38	1	2.6	-	-	-	-	1	2.6
Kings	6	-	-	-	-	-	-	-	-
Lake	1	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-
Long Beach	39	5	12.8	1	2.6	-	-	4	10.3
Los Angeles	815	78	9.6	17	2.1	4	0.5	57	7.0
Madera	1	-	-	-	-	-	-	-	-
Marin	16	1	6.3	-	-	-	-	1	6.3
Mariposa	-	-	-	-	-	-	-	-	-
Mendocino	3	-	-	-	-	-	-	-	-
Merced	5	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-
Monterey	22	-	-	-	-	-	-	-	-
Napa	7	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-
Orange	217	15	6.9	6	2.8	-	-	9	4.1
Pasadena	5	1	20.0	-	-	-	-	1	20.0
Placer	14	1	7.1	-	-	-	-	1	7.1
Plumas	-	-	-	-	-	-	-	-	-
Riverside	80	12	15.0	4	5.0	1	1.3	7	8.8
Sacramento	109	12	11.0	3	2.8	-	-	9	8.3
San Benito	-	-	-	-	-	-	-	-	-
San Bernardino	59	7	11.9	1	1.7	-	-	6	10.2
San Diego	280	16	5.7	5	1.8	-	-	11	3.9
San Francisco	143	17	11.9	1	0.7	-	-	16	11.2
San Joaquin	51	6	11.8	2	3.9	-	-	4	7.8
San Luis Obispo	3	-	-	-	-	-	-	-	-
San Mateo	89	7	7.9	4	4.5	-	-	3	3.4
Santa Barbara	14	-	-	-	-	-	-	-	-
Santa Clara	240	11	4.6	1	0.4	1	0.4	9	3.8
Santa Cruz	10	-	-	-	-	-	-	-	-
Shasta	4	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-
Solano	37	3	8.1	-	-	-	-	3	8.1
Sonoma	13	1	7.7	-	-	1	7.7	-	-
Stanislaus	16	1	6.3	-	-	-	-	1	6.3
Sutter	1	-	-	-	-	-	-	-	-
Tehama	4	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-
Tulare	25	2	8.0	-	-	-	-	2	8.0
Tuolumne	-	-	-	-	-	-	-	-	-
Ventura	57	4	7.0	1	1.8	-	-	3	5.3
Yolo	9	-	-	-	-	-	-	-	-
Yuba	6	-	-	-	-	-	-	-	-

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 26. Tuberculosis Cases by Initial Drug Regimen: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Cases Alive at Diagnosis	Cases Started on Initial Drug Regimen		Initial Drug Regimen* (%)				
		No.	%	IR	IRZ	IRE	IRZ,E/S	Other
California	**2,427**	**2,392**	**98.6**	**0.5**	**2.4**	**2.0**	**88.3**	**6.7**
Alameda	154	153	99.4	0.7	0.7	2.0	91.5	5.2
Alpine	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-
Berkeley	4	4	100.0	-	-	-	75.0	25.0
Butte	2	2	100.0	-	-	-	100.0	-
Calaveras	2	2	100.0	-	-	-	100.0	-
Colusa	-	-	-	-	-	-	-	-
Contra Costa	47	47	100.0	-	2.1	2.1	91.5	4.3
Del Norte	-	-	-	-	-	-	-	-
El Dorado	1	1	100.0	-	-	-	100.0	-
Fresno	66	66	100.0	-	4.5	3.0	89.4	3.0
Glenn	-	-	-	-	-	-	-	-
Humboldt	2	2	100.0	-	-	-	100.0	-
Imperial	35	33	94.3	-	-	-	97.0	3.0
Inyo	-	-	-	-	-	-	-	-
Kern	38	38	100.0	-	2.6	5.3	86.8	5.3
Kings	4	4	100.0	-	-	-	100.0	-
Lake	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-
Long Beach	43	43	100.0	-	4.7	11.6	76.7	7.0
Los Angeles	690	669	97.0	0.6	3.1	1.3	87.9	7.0
Madera	8	8	100.0	12.5	25.0	-	37.5	25.0
Marin	14	14	100.0	-	7.1	-	85.7	7.1
Mariposa	-	-	-	-	-	-	-	-
Mendocino	3	3	100.0	-	-	-	66.7	33.3
Merced	10	10	100.0	-	10.0	-	90.0	-
Modoc	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-
Monterey	16	16	100.0	-	-	6.3	81.3	12.5
Napa	8	8	100.0	-	12.5	-	87.5	-
Nevada	-	-	-	-	-	-	-	-
Orange	195	194	99.5	-	1.0	2.1	84.0	12.9
Pasadena	3	3	100.0	-	-	-	100.0	-
Placer	7	7	100.0	-	-	-	85.7	14.3
Plumas	-	-	-	-	-	-	-	-
Riverside	66	65	98.5	-	1.5	1.5	93.8	3.1
Sacramento	97	95	97.9	-	1.1	1.1	95.8	2.1
San Benito	-	-	-	-	-	-	-	-
San Bernardino	79	79	100.0	1.3	2.5	1.3	84.8	10.1
San Diego	219	218	99.5	2.3	2.8	3.2	81.7	10.1
San Francisco	115	115	100.0	-	0.9	2.6	87.0	9.6
San Joaquin	72	72	100.0	-	1.4	2.8	94.4	1.4
San Luis Obispo	3	3	100.0	-	-	-	100.0	-
San Mateo	66	65	98.5	-	-	-	95.4	4.6
Santa Barbara	23	21	91.3	-	-	-	85.7	14.3
Santa Clara	196	193	98.5	-	2.1	2.6	93.3	2.1
Santa Cruz	5	5	100.0	-	-	-	80.0	20.0
Shasta	1	1	100.0	-	-	-	100.0	-
Sierra	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-
Solano	23	23	100.0	-	4.3	-	82.6	13.0
Sonoma	7	7	100.0	-	-	-	100.0	-
Stanislaus	18	18	100.0	-	5.6	-	94.4	-
Sutter	1	1	100.0	-	-	-	100.0	-
Tehama	2	2	100.0	-	-	-	100.0	-
Trinity	-	-	-	-	-	-	-	-
Tulare	24	24	100.0	-	16.7	4.2	79.2	-
Tuolumne	1	1	100.0	-	-	-	-	100.0
Ventura	47	47	100.0	-	-	2.1	95.7	2.1
Yolo	10	10	100.0	-	-	-	90.0	10.0
Yuba	-	-	-	-	-	-	-	-

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

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 27. Tuberculosis Cases by Type of Health Care Provider: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Total Cases	Cases w/ Initial Drug Regimen Prescribed	Cases w/ Information on Type of Health Care Provider		Type of Health Care Provider					
					Health Department Only		Private/ Other Only		Both Health Dept. and Private/Other	
			No.	%	No.	%	No.	%	No.	%
California	**2,726**	**2,658**	**2,624**	**98.7**	**1,394**	**53.1**	**779**	**29.7**	**451**	**17.2**
Alameda	149	147	147	100.0	2	1.4	136	92.5	9	6.1
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	6	6	6	100.0	1	16.7	2	33.3	3	50.0
Butte	3	3	3	100.0	2	66.7	-	-	1	33.3
Calaveras	1	1	1	100.0	-	-	-	-	1	100.0
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	51	50	50	100.0	22	44.0	21	42.0	7	14.0
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	3	3	3	100.0	-	-	-	-	3	100.0
Fresno	42	41	41	100.0	35	85.4	5	12.2	1	2.4
Glenn	2	2	2	100.0	1	50.0	1	50.0	-	-
Humboldt	-	-	-	-	-	-	-	-	-	-
Imperial	29	27	27	100.0	18	66.7	7	25.9	2	7.4
Inyo	1	1	1	100.0	-	-	-	-	1	100.0
Kern	38	38	36	94.7	6	16.7	19	52.8	11	30.6
Kings	6	6	6	100.0	2	33.3	2	33.3	2	33.3
Lake	1	1	1	100.0	-	-	-	-	1	100.0
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	39	38	38	100.0	30	78.9	6	15.8	2	5.3
Los Angeles	815	790	780	98.7	430	55.1	96	12.3	254	32.6
Madera	1	1	1	100.0	1	100.0	-	-	-	-
Marin	16	16	14	87.5	12	85.7	2	14.3	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	3	3	3	100.0	3	100.0	-	-	-	-
Merced	5	4	4	100.0	2	50.0	2	50.0	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	22	22	21	95.5	11	52.4	-	-	10	47.6
Napa	7	7	7	100.0	-	-	-	-	7	100.0
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	217	211	209	99.1	175	83.7	11	5.3	23	11.0
Pasadena	5	5	5	100.0	1	20.0	4	80.0	-	-
Placer	14	14	14	100.0	4	28.6	4	28.6	6	42.9
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	80	75	73	97.3	54	74.0	14	19.2	5	6.8
Sacramento	109	106	105	99.1	72	68.6	24	22.9	9	8.6
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	59	58	56	96.6	34	60.7	15	26.8	7	12.5
San Diego	280	274	271	98.9	42	15.5	196	72.3	33	12.2
San Francisco	143	142	142	100.0	119	83.8	22	15.5	1	0.7
San Joaquin	51	48	48	100.0	33	68.8	13	27.1	2	4.2
San Luis Obispo	3	3	3	100.0	3	100.0	-	-	-	-
San Mateo	89	84	83	98.8	37	44.6	39	47.0	7	8.4
Santa Barbara	14	14	14	100.0	13	92.9	1	7.1	-	-
Santa Clara	240	237	236	99.6	127	53.8	105	44.5	4	1.7
Santa Cruz	10	10	10	100.0	7	70.0	3	30.0	-	-
Shasta	4	4	4	100.0	1	25.0	-	-	3	75.0
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	37	37	35	94.6	14	40.0	3	8.6	18	51.4
Sonoma	13	12	12	100.0	6	50.0	4	33.3	2	16.7
Stanislaus	16	16	15	93.8	2	13.3	-	-	13	86.7
Sutter	1	1	1	100.0	-	-	1	100.0	-	-
Tehama	4	4	4	100.0	4	100.0	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	25	25	24	96.0	22	91.7	1	4.2	1	4.2
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	57	56	53	94.6	42	79.2	10	18.9	1	1.9
Yolo	9	9	9	100.0	-	-	9	100.0	-	-
Yuba	6	6	6	100.0	4	66.7	1	16.7	1	16.7

- Indicates zero cases or zero percent.

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Table 28. Tuberculosis Cases by Type of Therapy Administration: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Total Cases	Cases w/ Initial Drug Regimen Prescribed	Cases w/ Information on Type of Therapy Administration		Type of Therapy Administration*					
					SAT Only		DOT Only		DOT and SAT	
			No.	%	No.	%	No.	%	No.	%
California	**2,726**	**2,658**	**2,621**	**98.6**	**385**	**14.7**	**1,547**	**59.0**	**689**	**26.3**
Alameda	149	147	147	100.0	52	35.4	82	55.8	13	8.8
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	6	6	6	100.0	-	-	3	50.0	3	50.0
Butte	3	3	3	100.0	-	-	-	-	3	100.0
Calaveras	1	1	1	100.0	1	100.0	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	51	50	50	100.0	9	18.0	27	54.0	14	28.0
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	3	3	3	100.0	-	-	2	66.7	1	33.3
Fresno	42	41	41	100.0	2	4.9	9	22.0	30	73.2
Glenn	2	2	2	100.0	-	-	-	-	2	100.0
Humboldt	-	-	-	-	-	-	-	-	-	-
Imperial	29	27	27	100.0	5	18.5	14	51.9	8	29.6
Inyo	1	1	1	100.0	-	-	-	-	1	100.0
Kern	38	38	36	94.7	1	2.8	16	44.4	19	52.8
Kings	6	6	5	83.3	1	20.0	1	20.0	3	60.0
Lake	1	1	1	100.0	-	-	1	100.0	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	39	38	38	100.0	5	13.2	23	60.5	10	26.3
Los Angeles	815	790	779	98.6	113	14.5	666	85.5	-	-
Madera	1	1	1	100.0	-	-	-	-	1	100.0
Marin	16	16	14	87.5	2	14.3	6	42.9	6	42.9
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	3	3	3	100.0	-	-	2	66.7	1	33.3
Merced	5	4	4	100.0	2	50.0	-	-	2	50.0
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	22	22	21	95.5	-	-	15	71.4	6	28.6
Napa	7	7	7	100.0	-	-	4	57.1	3	42.9
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	217	211	209	99.1	1	0.5	169	80.9	39	18.7
Pasadena	5	5	5	100.0	3	60.0	2	40.0	-	-
Placer	14	14	14	100.0	-	-	2	14.3	12	85.7
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	80	75	73	97.3	7	9.6	56	76.7	10	13.7
Sacramento	109	106	103	97.2	22	21.4	77	74.8	4	3.9
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	59	58	56	96.6	11	19.6	6	10.7	39	69.6
San Diego	280	274	274	100.0	9	3.3	117	42.7	148	54.0
San Francisco	143	142	142	100.0	33	23.2	95	66.9	14	9.9
San Joaquin	51	48	48	100.0	2	4.2	10	20.8	36	75.0
San Luis Obispo	3	3	3	100.0	-	-	1	33.3	2	66.7
San Mateo	89	84	83	98.8	17	20.5	55	66.3	11	13.3
Santa Barbara	14	14	14	100.0	-	-	14	100.0	-	-
Santa Clara	240	237	236	99.6	63	26.7	26	11.0	147	62.3
Santa Cruz	10	10	10	100.0	2	20.0	-	-	8	80.0
Shasta	4	4	4	100.0	-	-	3	75.0	1	25.0
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	37	37	34	91.9	1	2.9	5	14.7	28	82.4
Sonoma	13	12	12	100.0	4	33.3	7	58.3	1	8.3
Stanislaus	16	16	15	93.8	1	6.7	-	-	14	93.3
Sutter	1	1	1	100.0	-	-	-	-	1	100.0
Tehama	4	4	4	100.0	-	-	2	50.0	2	50.0
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	25	25	24	96.0	2	8.3	-	-	22	91.7
Tuolumne	-	-	-	-	-	-	-	-	-	-
Ventura	57	56	52	92.9	13	25.0	20	38.5	19	36.5
Yolo	9	9	9	100.0	1	11.1	4	44.4	4	44.4
Yuba	6	6	6	100.0	-	-	5	83.3	1	16.7

* SAT=self administered therapy; DOT=directly observed therapy.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 29. Tuberculosis Cases by AIDS Diagnosis (Dx)*: Reporting Jurisdictions in California, 2002-2008

	2002			2003			2004			2005			2006			2007			2008		
	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 %
California	**3,172**	**182**	**5.7**	**3,218**	**197**	**6.1**	**2,991**	**134**	**4.5**	**2,900**	**147**	**5.1**	**2,778**	**128**	**4.6**	**2,724**	**140**	**5.1**	**2,701**	**126**	**4.7**
Alameda	199	4	2.0	174	7	4.0	143	2	1.4	154	6	3.9	141	3	2.1	149	15	10.1	134	8	6.0
Contra Costa	69	4	5.8	82	3	3.7	64	5	7.8	58	2	3.4	50	-	-	51	-	-	79	1	1.3
Fresno	99	4	4.0	115	5	4.3	102	2	2.0	69	3	4.3	62	2	3.2	41	1	2.4	75	2	2.7
Imperial	29	-	-	25	2	8.0	31	2	6.5	32	1	3.1	33	2	6.1	29	2	6.9	21	1	4.8
Kern	58	2	3.4	47	3	6.4	36	1	2.8	42	4	9.5	41	1	2.4	38	2	5.3	50	2	4.0
Long Beach	59	4	6.8	65	2	3.1	54	3	5.6	53	2	3.8	39	3	7.7	39	2	5.1	48	2	4.2
Los Angeles	1,020	75	7.4	946	72	7.6	928	56	6.0	904	57	6.3	880	41	4.7	815	52	6.4	790	57	7.2
Marin	12	1	8.3	17	-	-	13	-	-	10	-	-	6	-	-	16	2	12.5	6	-	-
Merced	17	-	-	16	-	-	8	-	-	8	-	-	9	-	-	5	-	-	5	-	-
Monterey	24	-	-	54	1	1.9	29	-	-	37	1	2.7	29	1	3.4	22	-	-	24	-	-
Orange	230	3	1.3	248	8	3.2	230	7	3.0	242	5	2.1	226	9	4.0	217	6	2.8	210	2	1.0
Pasadena	12	1	8.3	12	-	-	12	-	-	15	1	6.7	7	1	14.3	5	1	20.0	6	-	-
Riverside	68	4	5.9	74	1	1.4	75	-	-	60	3	5.0	74	1	1.4	80	2	2.5	79	2	2.5
Sacramento	104	-	-	151	4	2.6	158	3	1.9	142	3	2.1	97	2	2.1	109	4	3.7	110	2	1.8
San Bernardino	63	-	-	67	6	9.0	68	4	5.9	63	2	3.2	58	4	6.9	59	4	6.8	74	1	1.4
San Diego	326	32	9.8	316	45	14.2	320	26	8.1	305	29	9.5	315	28	8.9	280	22	7.9	264	22	8.3
San Francisco	146	29	19.9	162	16	9.9	135	16	11.9	132	11	8.3	120	11	9.2	143	11	7.7	118	13	11.0
San Joaquin	52	4	7.7	69	8	11.6	65	-	-	63	5	7.9	78	3	3.8	51	4	7.8	66	2	3.0
San Mateo	68	-	-	52	1	1.9	56	1	1.8	62	1	1.6	78	2	2.6	88	-	-	64	1	1.6
Santa Barbara	17	3	17.6	37	-	-	18	-	-	26	1	3.8	15	-	-	14	-	-	34	1	2.9
Santa Clara	258	6	2.3	226	4	1.8	202	3	1.5	199	4	2.0	228	10	4.4	241	4	1.7	197	5	2.5
Santa Cruz	6	-	-	9	-	-	9	-	-	10	-	-	6	-	-	10	-	-	10	-	-
Solano	26	1	3.8	29	1	3.4	42	-	-	38	-	-	27	-	-	37	-	-	33	-	-
Sonoma	17	1	5.9	15	2	13.3	21	1	4.8	11	1	9.1	14	-	-	13	-	-	9	-	-
Stanislaus	21	2	9.5	17	-	-	19	-	-	11	-	-	16	-	-	15	2	13.3	20	1	5.0
Tulare	19	-	-	16	1	6.3	20	-	-	15	-	-	21	1	4.8	25	1	4.0	33	1	3.0
Ventura	66	1	1.5	73	2	2.7	72	1	1.4	55	3	5.5	49	1	2.0	57	2	3.5	66	-	-
All Other Jurisdictions**	87	1	1.1	104	3	2.9	61	1	1.6	84	2	2.4	59	2	3.4	75	1	1.3	76	-	-

* Match found in AIDS Case Registry, California Office of AIDS.
** Reporting jurisdictions with fewer than 5 cases in any year (2002-2008)
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 30. Tuberculosis Cases Among Residents of Correctional Facilities*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Residence in a Correctional Facility		Cases Diagnosed in Correctional Facility		Type of Correctional Facility									
						Federal Prison		State Prison		Local Jail		Juvenile Facility		Other/Unknown	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,472**	**2,467**	**99.8**	**66**	**2.7**	**7**	**10.6**	**6**	**9.1**	**39**	**59.1**	**3**	**4.5**	**11**	**16.7**
Alameda	156	155	99.4	3	1.9	-	-	-	-	3	100.0	-	-	-	-
Contra Costa	47	47	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Fresno	67	67	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	35	35	100.0	4	11.4	-	-	-	-	1	25.0	-	-	3	75.0
Kern	40	40	100.0	4	10.0	-	-	2	50.0	1	25.0	-	-	1	25.0
Long Beach	44	44	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Los Angeles	706	706	100.0	18	2.5	-	-	-	-	12	66.7	1	5.6	5	27.8
Madera	8	8	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Marin	14	14	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Merced	11	11	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	16	16	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Napa	8	8	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Orange	197	197	100.0	1	0.5	-	-	-	-	1	100.0	-	-	-	-
Placer	7	7	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	69	69	100.0	1	1.4	-	-	-	-	-	-	1	100.0	-	-
Sacramento	98	97	99.0	2	2.1	-	-	1	50.0	1	50.0	-	-	-	-
San Bernardino	79	79	100.0	1	1.3	-	-	-	-	1	100.0	-	-	-	-
San Diego	223	223	100.0	20	9.0	7	35.0	3	15.0	7	35.0	1	5.0	2	10.0
San Francisco	115	115	100.0	1	0.9	-	-	-	-	1	100.0	-	-	-	-
San Joaquin	76	76	100.0	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	66	65	98.5	1	1.5	-	-	-	-	1	100.0	-	-	-	-
Santa Barbara	23	23	100.0	1	4.3	-	-	-	-	1	100.0	-	-	-	-
Santa Clara	197	196	99.5	4	2.0	-	-	-	-	4	100.0	-	-	-	-
Santa Cruz	5	5	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Solano	23	23	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Sonoma	9	8	88.9	-	-	-	-	-	-	-	-	-	-	-	-
Stanislaus	20	20	100.0	1	5.0	-	-	-	-	1	100.0	-	-	-	-
Tulare	24	24	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	48	48	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Yolo	12	12	100.0	-	-	-	-	-	-	-	-	-	-	-	-
All Other Jurisdictions**	29	29	100.0	4	13.8	-	-	-	-	4	100.0	-	-	-	-

* Residence in correctional facility at the time of diagnosis.

\- Indicates zero cases or zero percent.

** Reporting jurisdictions with fewer than 5 cases.

California Department of Public Health, Tuberculosis Control Branch

Table 31. Tuberculosis Cases by Homeless Status*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Homeless Status		Cases with Homeless Status	
		No.	%	No.	%
California	**2,472**	**2,451**	**99.2**	**103**	**4.2**
Alameda	156	154	98.7	1	0.6
Contra Costa	47	47	100.0	2	4.3
Fresno	67	66	98.5	1	1.5
Imperial	35	35	100.0	4	11.4
Kern	40	40	100.0	2	5.0
Long Beach	44	44	100.0	-	-
Los Angeles	706	697	98.7	37	5.3
Madera	8	8	100.0	-	-
Marin	14	14	100.0	1	7.1
Merced	11	11	100.0	-	-
Monterey	16	14	87.5	-	-
Napa	8	8	100.0	-	-
Orange	197	197	100.0	2	1.0
Placer	7	7	100.0	-	-
Riverside	69	69	100.0	-	-
Sacramento	98	97	99.0	7	7.2
San Bernardino	79	79	100.0	-	-
San Diego	223	222	99.6	7	3.2
San Francisco	115	115	100.0	14	12.2
San Joaquin	76	75	98.7	10	13.3
San Mateo	66	65	98.5	-	-
Santa Barbara	23	22	95.7	3	13.6
Santa Clara	197	196	99.5	5	2.6
Santa Cruz	5	5	100.0	2	40.0
Solano	23	23	100.0	-	-
Sonoma	9	8	88.9	-	-
Stanislaus	20	20	100.0	-	-
Tulare	24	24	100.0	3	12.5
Ventura	48	48	100.0	-	-
Yolo	12	12	100.0	-	-
All Other Jurisdictions**	29	29	100.0	2	6.9

* Homeless within past 12 months.
- Indicates zero cases or zero percent.
** Reporting jurisdictions with fewer than five cases.

California Department of Public Health, Tuberculosis Control Branch

Table 32. Tuberculosis Cases Among Persons in Long-term Care Facilities*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Residence in Long-term Care Facility		Cases Diagnosed in a Long-term Care Facility**	
		No.	%	No.	%
California	**2,472**	**2,469**	**99.9**	**48**	**1.9**
Alameda	156	156	100.0	5	3.2
Contra Costa	47	47	100.0	-	-
Fresno	67	67	100.0	-	-
Imperial	35	35	100.0	-	-
Kern	40	40	100.0	-	-
Long Beach	44	44	100.0	1	2.3
Los Angeles	706	706	100.0	10	1.4
Madera	8	8	100.0	-	-
Marin	14	14	100.0	1	7.1
Merced	11	11	100.0	-	-
Monterey	16	16	100.0	-	-
Napa	8	8	100.0	-	-
Orange	197	197	100.0	9	4.6
Placer	7	7	100.0	-	-
Riverside	69	69	100.0	-	-
Sacramento	98	97	99.0	-	-
San Bernardino	79	79	100.0	-	-
San Diego	223	223	100.0	1	0.4
San Francisco	115	115	100.0	5	4.3
San Joaquin	76	76	100.0	2	2.6
San Mateo	66	65	98.5	2	3.1
Santa Barbara	23	22	95.7	-	-
Santa Clara	197	197	100.0	9	4.6
Santa Cruz	5	5	100.0	-	-
Solano	23	23	100.0	-	-
Sonoma	9	9	100.0	-	-
Stanislaus	20	20	100.0	2	10.0
Tulare	24	24	100.0	-	-
Ventura	48	48	100.0	-	-
Yolo	12	12	100.0	-	-
All Other Jurisdictions***	29	29	100.0	1	3.4

* Residence in long-term care facility at time of diagnosis.
** Percentage not reported when information is available for less than 75 percent of cases.
- Indicates zero cases or zero percent.
***Reporting jurisdictions with fewer than 5 cases.

California Department of Public Health, Tuberculosis Control Branch

Table 33. Tuberculosis Cases Among Persons Using Injecting Drugs*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Injecting Drug Use		Cases with Injecting Drug Use**	
		No.	%	No.	%
California	**2,472**	**2,407**	**97.4**	**26**	**1.1**
Alameda	156	154	98.7	3	1.9
Contra Costa	47	46	97.9	-	-
Fresno	67	66	98.5	-	-
Imperial	35	32	91.4	1	3.1
Kern	40	40	100.0	1	2.5
Long Beach	44	44	100.0	-	-
Los Angeles	706	679	96.2	4	0.6
Madera	8	8	100.0	-	-
Marin	14	14	100.0	-	-
Merced	11	10	90.9	-	-
Monterey	16	16	100.0	-	-
Napa	8	8	100.0	-	-
Orange	197	194	98.5	2	1.0
Placer	7	7	100.0	-	-
Riverside	69	66	95.7	-	-
Sacramento	98	95	96.9	-	-
San Bernardino	79	78	98.7	2	2.6
San Diego	223	223	100.0	2	0.9
San Francisco	115	115	100.0	4	3.5
San Joaquin	76	76	100.0	5	6.6
San Mateo	66	63	95.5	-	-
Santa Barbara	23	22	95.7	1	4.5
Santa Clara	197	187	94.9	1	0.5
Santa Cruz	5	4	80.0	-	-
Solano	23	23	100.0	-	-
Sonoma	9	9	100.0	-	-
Stanislaus	20	19	95.0	-	-
Tulare	24	24	100.0	-	-
Ventura	48	48	100.0	-	-
Yolo	12	12	100.0	-	-
All Other Jurisdictions***	29	25	86.2	-	-

* Injecting drug use within past 12 months.
** Percentage not reported when information is available for less than 75 percent of cases.
- Indicates zero cases or zero pecent.
*** Reporting jurisdictions with fewer than 5 cases.

California Department of Public Health, Tuberculosis Control Branch

Table 34. Tuberculosis Cases Among Persons Using Non-injecting Drugs*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Non-injecting Drug Use		Cases with Non-injecting Drug Use**	
		No.	%	No.	%
California	**2,472**	**2,405**	**97.3**	**134**	**5.6**
Alameda	156	154	98.7	3	1.9
Contra Costa	47	46	97.9	3	6.5
Fresno	67	64	95.5	1	1.6
Imperial	35	33	94.3	2	6.1
Kern	40	40	100.0	7	17.5
Long Beach	44	44	100.0	2	4.5
Los Angeles	706	681	96.5	38	5.6
Madera	8	8	100.0	-	-
Marin	14	14	100.0	1	7.1
Merced	11	10	90.9	1	10.0
Monterey	16	16	100.0	-	-
Napa	8	8	100.0	-	-
Orange	197	194	98.5	7	3.6
Placer	7	7	100.0	-	-
Riverside	69	66	95.7	-	-
Sacramento	98	96	98.0	6	6.3
San Bernardino	79	77	97.5	2	2.6
San Diego	223	223	100.0	19	8.5
San Francisco	115	115	100.0	10	8.7
San Joaquin	76	75	98.7	10	13.3
San Mateo	66	64	97.0	2	3.1
Santa Barbara	23	22	95.7	2	9.1
Santa Clara	197	187	94.9	6	3.2
Santa Cruz	5	4	80.0	-	-
Solano	23	23	100.0	1	4.3
Sonoma	9	7	77.8	1	14.3
Stanislaus	20	19	95.0	1	5.3
Tulare	24	24	100.0	4	16.7
Ventura	48	47	97.9	-	-
Yolo	12	12	100.0	-	-
All Other Jurisdictions***	29	25	86.2	5	20.0

* Non-injecting drug use within past 12 months.
** Percentage not reported when information is available for less than 75 percent of cases.
- Indicates zero cases or zero percent.
*** Reporting jurisdictions with fewer than 5 cases.

California Department of Public Health, Tuberculosis Control Branch

Table 35. Tuberculosis Cases Among Persons Using Excess Alcohol*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Excess Alcohol Use		Cases with Excess Alcohol Use**	
		No.	%	No.	%
California	**2,472**	**2,413**	**97.6**	**194**	**8.0**
Alameda	156	154	98.7	8	5.2
Contra Costa	47	46	97.9	1	2.2
Fresno	67	65	97.0	7	10.8
Imperial	35	32	91.4	5	15.6
Kern	40	40	100.0	9	22.5
Long Beach	44	44	100.0	3	6.8
Los Angeles	706	690	97.7	58	8.4
Madera	8	8	100.0	-	-
Marin	14	14	100.0	1	7.1
Merced	11	9	81.8	-	-
Monterey	16	16	100.0	-	-
Napa	8	8	100.0	1	12.5
Orange	197	194	98.5	9	4.6
Placer	7	7	100.0	-	-
Riverside	69	66	95.7	3	4.5
Sacramento	98	95	96.9	5	5.3
San Bernardino	79	77	97.5	1	1.3
San Diego	223	223	100.0	25	11.2
San Francisco	115	115	100.0	10	8.7
San Joaquin	76	75	98.7	18	24.0
San Mateo	66	64	97.0	2	3.1
Santa Barbara	23	22	95.7	5	22.7
Santa Clara	197	186	94.4	6	3.2
Santa Cruz	5	4	80.0	-	-
Solano	23	22	95.7	1	4.5
Sonoma	9	9	100.0	1	11.1
Stanislaus	20	20	100.0	5	25.0
Tulare	24	24	100.0	5	20.8
Ventura	48	48	100.0	1	2.1
Yolo	12	12	100.0	-	-
All Other Jurisdictions***	29	24	82.8	4	16.7

* Excess alcohol use within the past 12 months.
** Percentage not reported when information is available for less than 75 percent of cases.
- Indicates zero cases or zero percent.
*** Reporting jurisdictions with fewer than 5 cases.

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Table 36. Tuberculosis Cases by Occupation*: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Cases with Information on Occupation		Occupation**									
				Not Employed		Health Care Worker		Correctional Employee		Migrant Worker		Other Occupation	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,472**	**2,372**	**96.0**	**1,357**	**57.2**	**92**	**3.9**	**4**	**0.2**	**42**	**1.8**	**879**	**37.1**
Alameda	156	150	96.2	65	43.3	5	3.3	-	-	-	-	80	53.3
Contra Costa	47	46	97.9	19	41.3	3	6.5	-	-	-	-	24	52.2
Fresno	67	65	97.0	44	67.7	2	3.1	-	-	5	7.7	14	21.5
Imperial	35	31	88.6	19	61.3	-	-	1	3.2	3	9.7	8	25.8
Kern	40	38	95.0	14	36.8	1	2.6	1	2.6	5	13.2	18	47.4
Long Beach	44	44	100.0	27	61.4	3	6.8	-	-	-	-	14	31.8
Los Angeles	706	688	97.5	454	66.0	27	3.9	-	-	-	-	207	30.1
Madera	8	8	100.0	2	25.0	1	12.5	-	-	4	50.0	1	12.5
Marin	14	14	100.0	8	57.1	1	7.1	-	-	-	-	5	35.7
Merced	11	11	100.0	6	54.5	2	18.2	-	-	-	-	3	27.3
Monterey	16	16	100.0	8	50.0	1	6.3	-	-	2	12.5	5	31.3
Napa	8	7	87.5	3	42.9	-	-	-	-	-	-	4	57.1
Orange	197	195	99.0	95	48.7	10	5.1	-	-	-	-	90	46.2
Placer	7	7	100.0	4	57.1	-	-	-	-	-	-	3	42.9
Riverside	69	65	94.2	36	55.4	4	6.2	-	-	-	-	25	38.5
Sacramento	98	57	58.2	47	-	-	-	-	-	-	-	10	-
San Bernardino	79	76	96.2	40	52.6	4	5.3	-	-	-	-	32	42.1
San Diego	223	223	100.0	121	54.3	7	3.1	-	-	2	0.9	93	41.7
San Francisco	115	115	100.0	69	60.0	4	3.5	-	-	-	-	42	36.5
San Joaquin	76	75	98.7	53	70.7	-	-	-	-	2	2.7	20	26.7
San Mateo	66	65	98.5	38	58.5	4	6.2	-	-	-	-	23	35.4
Santa Barbara	23	21	91.3	10	47.6	1	4.8	-	-	6	28.6	4	19.0
Santa Clara	197	191	97.0	87	45.5	7	3.7	-	-	1	0.5	96	50.3
Santa Cruz	5	5	100.0	4	80.0	-	-	-	-	1	20.0	-	-
Solano	23	19	82.6	8	42.1	-	-	1	5.3	-	-	11	57.9
Sonoma	9	8	88.9	5	62.5	-	-	-	-	-	-	3	37.5
Stanislaus	20	20	100.0	12	60.0	-	-	-	-	1	5.0	7	35.0
Tulare	24	24	100.0	13	54.2	-	-	-	-	2	8.3	9	37.5
Ventura	48	48	100.0	23	47.9	5	10.4	1	2.1	7	14.6	12	25.0
Yolo	12	12	100.0	7	58.3	-	-	-	-	-	-	5	41.7
All Other Jurisdictions***	29	28	96.6	16	57.1	-	-	-	-	1	3.6	11	39.3

* Occupation within past 24 months.
** Percentage not reported when information is available for less than 75 percent of cases. A case may report more than one occupation.
- Indicates zero cases or zero percent.
*** Reporting jurisdictions with fewer than 5 cases.

California Department of Public Health, Tuberculosis Control Branch

Table 37. Tuberculosis Cases by Initial Drug Susceptibility Testing: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Cases	Total Culture Positive Cases	Cases with Initial Drug Susceptibility Testing	
			No.	%
California	**2,472**	**1,963**	**1,912**	**97.4**
Alameda	156	112	111	99.1
Alpine	-	-	-	-
Amador	-	-	-	-
Berkeley	4	2	2	100.0
Butte	2	2	2	100.0
Calaveras	2	2	2	100.0
Colusa	-	-	-	-
Contra Costa	47	34	34	100.0
Del Norte	-	-	-	-
El Dorado	1	-	-	-
Fresno	67	49	46	93.9
Glenn	-	-	-	-
Humboldt	2	1	1	100.0
Imperial	35	34	34	100.0
Inyo	-	-	-	-
Kern	40	37	37	100.0
Kings	4	4	4	100.0
Lake	-	-	-	-
Lassen	-	-	-	-
Long Beach	44	40	40	100.0
Los Angeles	706	566	562	99.3
Madera	8	5	4	80.0
Marin	14	8	8	100.0
Mariposa	-	-	-	-
Mendocino	3	1	1	100.0
Merced	11	11	10	90.9
Modoc	-	-	-	-
Mono	-	-	-	-
Monterey	16	13	13	100.0
Napa	8	4	4	100.0
Nevada	-	-	-	-
Orange	197	169	163	96.4
Pasadena	3	3	3	100.0
Placer	7	4	3	75.0
Plumas	-	-	-	-
Riverside	69	60	46	76.7
Sacramento	98	72	71	98.6
San Benito	-	-	-	-
San Bernardino	79	63	59	93.7
San Diego	223	176	176	100.0
San Francisco	115	85	85	100.0
San Joaquin	76	57	56	98.2
San Luis Obispo	3	3	3	100.0
San Mateo	66	56	53	94.6
Santa Barbara	23	18	18	100.0
Santa Clara	197	160	152	95.0
Santa Cruz	5	5	5	100.0
Shasta	1	1	1	100.0
Sierra	-	-	-	-
Siskiyou	-	-	-	-
Solano	23	18	18	100.0
Sonoma	9	8	8	100.0
Stanislaus	20	20	19	95.0
Sutter	1	-	-	-
Tehama	2	1	1	100.0
Trinity	-	-	-	-
Tulare	24	15	13	86.7
Tuolumne	1	1	1	100.0
Ventura	48	36	36	100.0
Yolo	12	7	7	100.0
Yuba	-	-	-	-

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 38. Tuberculosis Cases by Resistance to Isoniazid and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Culture Positive Cases	All Cases*			No Prior TB			Prior TB		
		No. with INH** Susceptibility Testing	Cases with Resistance to INH		No. with INH Susceptibility Testing	Cases with Resistance to INH		No. with INH Susceptibility Testing	Cases with Resistance to INH	
			No.	%		No.	%		No.	%
California	**1,963**	**1,910**	**189**	**9.9**	**1,755**	**161**	**9.2**	**113**	**23**	**20.4**
Alameda	112	111	12	10.8	100	11	11.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	5	14.7	30	4	13.3	3	1	33.3
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	46	7	15.2	36	5	13.9	9	2	22.2
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	34	-	-	31	-	-	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	37	-	-	31	-	-	3	-	-
Kings	4	4	-	-	4	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	40	1	2.5	37	1	2.7	2	-	-
Los Angeles	566	562	47	8.4	529	44	8.3	19	1	5.3
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	-	-	7	-	-	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	10	-	-	10	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	1	7.7	12	1	8.3	1	-	-
Napa	4	4	2	50.0	4	2	50.0	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	163	27	16.6	149	20	13.4	12	6	50.0
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	1	33.3	3	1	33.3	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	46	4	8.7	41	2	4.9	3	1	33.3
Sacramento	72	71	10	14.1	67	8	11.9	4	2	50.0
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	59	5	8.5	56	5	8.9	3	-	-
San Diego	176	176	16	9.1	170	15	8.8	6	1	16.7
San Francisco	85	85	8	9.4	78	7	9.0	7	1	14.3
San Joaquin	57	56	6	10.7	53	4	7.5	3	2	66.7
San Luis Obispo	3	3	1	33.3	3	1	33.3	-	-	-
San Mateo	56	53	8	15.1	44	6	13.6	8	2	25.0
Santa Barbara	18	18	4	22.2	17	4	23.5	-	-	-
Santa Clara	160	151	13	8.6	133	12	9.0	10	1	10.0
Santa Cruz	5	5	-	-	4	-	-	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	1	5.6	17	1	5.9	1	-	-
Sonoma	8	8	1	12.5	8	1	12.5	-	-	-
Stanislaus	20	18	4	22.2	11	2	18.2	4	2	50.0
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	1	100.0	1	1	100.0	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	13	1	7.7	13	1	7.7	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	2	5.6	35	2	5.7	1	-	-
Yolo	7	7	1	14.3	5	-	-	1	1	100.0
Yuba	-	-	-	-	-	-	-	-	-	-

* 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

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 39. Tuberculosis Cases by Resistance to Rifampin and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

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	**1,963**	**1,911**	**36**	**1.9**	**1,755**	**25**	**1.4**	**114**	**11**	**9.6**
Alameda	112	111	4	3.6	100	4	4.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	1	2.9	30	-	-	3	1	33.3
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	46	3	6.5	36	3	8.3	9	-	-
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	34	-	-	31	-	-	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	37	-	-	31	-	-	3	-	-
Kings	4	4	-	-	4	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	40	-	-	37	-	-	2	-	-
Los Angeles	566	562	5	0.9	529	5	0.9	19	-	-
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	-	-	7	-	-	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	10	-	-	10	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	1	7.7	12	1	8.3	1	-	-
Napa	4	4	-	-	4	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	163	6	3.7	149	1	0.7	12	5	41.7
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	-	-	3	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	46	1	2.2	41	-	-	3	1	33.3
Sacramento	72	71	2	2.8	67	2	3.0	4	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	59	-	-	56	-	-	3	-	-
San Diego	176	176	3	1.7	170	2	1.2	6	1	16.7
San Francisco	85	85	1	1.2	78	1	1.3	7	-	-
San Joaquin	57	56	4	7.1	53	2	3.8	3	2	66.7
San Luis Obispo	3	3	-	-	3	-	-	-	-	-
San Mateo	56	53	1	1.9	44	1	2.3	8	-	-
Santa Barbara	18	18	-	-	17	-	-	-	-	-
Santa Clara	160	152	3	2.0	133	3	2.3	11	-	-
Santa Cruz	5	5	-	-	4	-	-	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	-	-	17	-	-	1	-	-
Sonoma	8	8	-	-	8	-	-	-	-	-
Stanislaus	20	18	-	-	11	-	-	4	-	-
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	-	-	1	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	13	-	-	13	-	-	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	-	-	35	-	-	1	-	-
Yolo	7	7	1	14.3	5	-	-	1	1	100.0
Yuba	-	-	-	-	-	-	-	-	-	-

* 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
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 40. Tuberculosis Cases by Resistance to Ethambutol and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

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	**1,963**	**1,907**	**16**	**0.8**	**1,752**	**15**	**0.9**	**113**	**1**	**0.9**
Alameda	112	110	2	1.8	99	2	2.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	-	-	30	-	-	3	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	46	3	6.5	36	3	8.3	9	-	-
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	34	-	-	31	-	-	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	37	-	-	31	-	-	3	-	-
Kings	4	4	-	-	4	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	40	-	-	37	-	-	2	-	-
Los Angeles	566	562	5	0.9	529	5	0.9	19	-	-
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	-	-	7	-	-	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	10	-	-	10	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	-	-	12	-	-	1	-	-
Napa	4	4	-	-	4	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	161	1	0.6	147	1	0.7	12	-	-
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	-	-	3	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	46	-	-	41	-	-	3	-	-
Sacramento	72	71	1	1.4	67	1	1.5	4	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	59	-	-	56	-	-	3	-	-
San Diego	176	176	-	-	170	-	-	6	-	-
San Francisco	85	85	-	-	78	-	-	7	-	-
San Joaquin	57	56	1	1.8	53	-	-	3	1	33.3
San Luis Obispo	3	3	-	-	3	-	-	-	-	-
San Mateo	56	53	1	1.9	44	1	2.3	8	-	-
Santa Barbara	18	18	-	-	17	-	-	-	-	-
Santa Clara	160	151	2	1.3	133	2	1.5	10	-	-
Santa Cruz	5	5	-	-	4	-	-	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	-	-	17	-	-	1	-	-
Sonoma	8	8	-	-	8	-	-	-	-	-
Stanislaus	20	18	-	-	11	-	-	4	-	-
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	-	-	1	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	13	-	-	13	-	-	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	-	-	35	-	-	1	-	-
Yolo	7	7	-	-	5	-	-	1	-	-
Yuba	-	-	-	-	-	-	-	-	-	-

* 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

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 41. Tuberculosis Cases by Resistance to Pyrazinamide and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

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.	%
California	**1,963**	**1,892**	**84**	**4.4**	**1,737**	**77**	**4.4**	**113**	**6**	**5.3**
Alameda	112	110	2	1.8	99	2	2.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	3	8.8	30	1	3.3	3	2	66.7
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	43	-	-	33	-	-	9	-	-
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	33	1	3.0	30	1	3.3	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	36	1	2.8	30	1	3.3	3	-	-
Kings	4	4	1	25.0	4	1	25.0	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	39	1	2.6	36	1	2.8	2	-	-
Los Angeles	566	559	31	5.5	526	31	5.9	19	-	-
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	1	12.5	7	1	14.3	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	9	-	-	9	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	-	-	12	-	-	1	-	-
Napa	4	4	-	-	4	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	163	8	4.9	149	6	4.0	12	2	16.7
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	-	-	3	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	43	3	7.0	38	2	5.3	3	1	33.3
Sacramento	72	71	2	2.8	67	2	3.0	4	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	56	3	5.4	53	3	5.7	3	-	-
San Diego	176	176	15	8.5	170	15	8.8	6	-	-
San Francisco	85	85	1	1.2	78	1	1.3	7	-	-
San Joaquin	57	56	3	5.4	53	2	3.8	3	1	33.3
San Luis Obispo	3	3	-	-	3	-	-	-	-	-
San Mateo	56	53	1	1.9	44	1	2.3	8	-	-
Santa Barbara	18	18	-	-	17	-	-	-	-	-
Santa Clara	160	151	2	1.3	133	2	1.5	10	-	-
Santa Cruz	5	4	1	25.0	3	1	33.3	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	-	-	17	-	-	1	-	-
Sonoma	8	8	2	25.0	8	2	25.0	-	-	-
Stanislaus	20	19	1	5.3	12	-	-	4	-	-
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	-	-	1	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	12	-	-	12	-	-	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	1	2.8	35	1	2.9	1	-	-
Yolo	7	7	-	-	5	-	-	1	-	-
Yuba	-	-	-	-	-	-	-	-	-	-

* 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
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 42. Tuberculosis Cases by Resistance to Streptomycin and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

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.	%
California	**1,963**	**1,147**	**106**	**9.2**	**1,051**	**97**	**9.2**	**72**	**8**	**11.1**
Alameda	112	48	3	6.3	45	3	6.7	2	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	-	-	-	-	-	-	-	-	-
Butte	2	1	-	-	1	-	-	-	-	-
Calaveras	2	1	-	-	1	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	24	3	12.5	20	3	15.0	3	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	43	8	18.6	34	7	20.6	8	1	12.5
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	-	-	-	-	-	-	-	-	-
Imperial	34	1	-	-	1	-	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	1	-	-	1	-	-	-	-	-
Kings	4	-	-	-	-	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	24	1	4.2	22	1	4.5	2	-	-
Los Angeles	566	518	44	8.5	489	43	8.8	18	1	5.6
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	-	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	9	-	-	9	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	-	-	-	-	-	-	-	-	-
Napa	4	1	-	-	1	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	52	7	13.5	45	5	11.1	7	2	28.6
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	1	-	-	1	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	43	3	7.0	38	3	7.9	3	-	-
Sacramento	72	1	1	100.0	1	1	100.0	-	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	54	4	7.4	51	4	7.8	3	-	-
San Diego	176	31	4	12.9	29	3	10.3	2	1	50.0
San Francisco	85	76	9	11.8	69	8	11.6	7	1	14.3
San Joaquin	57	20	2	10.0	18	1	5.6	2	1	50.0
San Luis Obispo	3	-	-	-	-	-	-	-	-	-
San Mateo	56	29	2	6.9	25	1	4.0	4	1	25.0
Santa Barbara	18	16	1	6.3	15	1	6.7	-	-	-
Santa Clara	160	103	11	10.7	91	10	11.0	7	-	-
Santa Cruz	5	3	-	-	2	-	-	1	-	-
Shasta	1	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	1	-	-	1	-	-	-	-	-
Sonoma	8	2	-	-	2	-	-	-	-	-
Stanislaus	20	5	-	-	2	-	-	1	-	-
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	9	2	22.2	9	2	22.2	-	-	-
Tuolumne	1	-	-	-	-	-	-	-	-	-
Ventura	36	21	1	4.8	21	1	4.8	-	-	-
Yolo	7	1	-	-	-	-	-	1	-	-
Yuba	-	-	-	-	-	-	-	-	-	-

* 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
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 43. Multidrug-resistant (MDR) Tuberculosis Cases* by History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

Reporting Jurisdiction	Total Culture Positive Cases	All Cases**			No Prior TB			Prior TB		
		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.	%
California	**1,963**	**1,910**	**33**	**1.7**	**1,755**	**22**	**1.3**	**113**	**11**	**9.7**
Alameda	112	111	4	3.6	100	4	4.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	1	2.9	30	-	-	3	1	33.3
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	46	3	6.5	36	3	8.3	9	-	-
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	34	-	-	31	-	-	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	37	-	-	31	-	-	3	-	-
Kings	4	4	-	-	4	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	40	-	-	37	-	-	2	-	-
Los Angeles	566	562	5	0.9	529	5	0.9	19	-	-
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	-	-	7	-	-	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	10	-	-	10	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	-	-	12	-	-	1	-	-
Napa	4	4	-	-	4	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	163	6	3.7	149	1	0.7	12	5	41.7
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	-	-	3	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	46	1	2.2	41	-	-	3	1	33.3
Sacramento	72	71	2	2.8	67	2	3.0	4	-	-
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	59	-	-	56	-	-	3	-	-
San Diego	176	176	3	1.7	170	2	1.2	6	1	16.7
San Francisco	85	85	-	-	78	-	-	7	-	-
San Joaquin	57	56	4	7.1	53	2	3.8	3	2	66.7
San Luis Obispo	3	3	-	-	3	-	-	-	-	-
San Mateo	56	53	1	1.9	44	1	2.3	8	-	-
Santa Barbara	18	18	-	-	17	-	-	-	-	-
Santa Clara	160	151	2	1.3	133	2	1.5	10	-	-
Santa Cruz	5	5	-	-	4	-	-	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	-	-	17	-	-	1	-	-
Sonoma	8	8	-	-	8	-	-	-	-	-
Stanislaus	20	18	-	-	11	-	-	4	-	-
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	-	-	1	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	13	-	-	13	-	-	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	-	-	35	-	-	1	-	-
Yolo	7	7	1	14.3	5	-	-	1	1	100.0
Yuba	-	-	-	-	-	-	-	-	-	-

* Cases with resistance to at least isoniazid, and rifampin or rifabutin.

** 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.

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 44. Tuberculosis Cases by Resistance to at Least One First-line Drug* and History of Prior Tuberculosis: Reporting Jurisdictions in California, 2009

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.	%		No.	%		No.	%
California	**1,963**	**1,912**	**265**	**13.9**	**1,756**	**235**	**13.4**	**114**	**24**	**21.1**
Alameda	112	111	13	11.7	100	12	12.0	7	-	-
Alpine	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-
Berkeley	2	2	-	-	2	-	-	-	-	-
Butte	2	2	-	-	2	-	-	-	-	-
Calaveras	2	2	-	-	2	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-
Contra Costa	34	34	7	20.6	30	5	16.7	3	2	66.7
Del Norte	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	-	-	-	-	-	-	-
Fresno	49	46	7	15.2	36	5	13.9	9	2	22.2
Glenn	-	-	-	-	-	-	-	-	-	-
Humboldt	1	1	-	-	1	-	-	-	-	-
Imperial	34	34	1	2.9	31	1	3.2	3	-	-
Inyo	-	-	-	-	-	-	-	-	-	-
Kern	37	37	1	2.7	31	1	3.2	3	-	-
Kings	4	4	1	25.0	4	1	25.0	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-
Long Beach	40	40	2	5.0	37	2	5.4	2	-	-
Los Angeles	566	562	76	13.5	529	73	13.8	19	1	5.3
Madera	5	4	-	-	4	-	-	-	-	-
Marin	8	8	1	12.5	7	1	14.3	1	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-
Mendocino	1	1	-	-	-	-	-	1	-	-
Merced	11	10	-	-	10	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-
Monterey	13	13	2	15.4	12	2	16.7	1	-	-
Napa	4	4	2	50.0	4	2	50.0	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
Orange	169	163	33	20.2	149	26	17.4	12	6	50.0
Pasadena	3	3	-	-	3	-	-	-	-	-
Placer	4	3	1	33.3	3	1	33.3	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-
Riverside	60	46	6	13.0	41	4	9.8	3	1	33.3
Sacramento	72	71	11	15.5	67	9	13.4	4	2	50.0
San Benito	-	-	-	-	-	-	-	-	-	-
San Bernardino	63	59	8	13.6	56	8	14.3	3	-	-
San Diego	176	176	31	17.6	170	30	17.6	6	1	16.7
San Francisco	85	85	10	11.8	78	9	11.5	7	1	14.3
San Joaquin	57	56	7	12.5	53	5	9.4	3	2	66.7
San Luis Obispo	3	3	1	33.3	3	1	33.3	-	-	-
San Mateo	56	53	9	17.0	44	7	15.9	8	2	25.0
Santa Barbara	18	18	4	22.2	17	4	23.5	-	-	-
Santa Clara	160	152	15	9.9	133	14	10.5	11	1	9.1
Santa Cruz	5	5	1	20.0	4	1	25.0	1	-	-
Shasta	1	1	-	-	1	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-
Solano	18	18	1	5.6	17	1	5.9	1	-	-
Sonoma	8	8	3	37.5	8	3	37.5	-	-	-
Stanislaus	20	19	5	26.3	12	2	16.7	4	2	50.0
Sutter	-	-	-	-	-	-	-	-	-	-
Tehama	1	1	1	100.0	1	1	100.0	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-
Tulare	15	13	1	7.7	13	1	7.7	-	-	-
Tuolumne	1	1	-	-	1	-	-	-	-	-
Ventura	36	36	3	8.3	35	3	8.6	1	-	-
Yolo	7	7	1	14.3	5	-	-	1	1	100.0
Yuba	-	-	-	-	-	-	-	-	-	-

* 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.

- Indicates zero cases or zero percent.

Table 45. Tuberculosis Cases by Resistance to Isoniazid: Reporting Jurisdictions in California, 2003-2009

Reporting Jurisdiction	2003			2004			2005			2006			2007			2008			2009 *		
	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.	%
California	**2,443**	**245**	**10.0**	**2,291**	**256**	**11.2**	**2,250**	**223**	**9.9**	**2,215**	**215**	**9.7**	**2,154**	**236**	**11.0**	**2,138**	**223**	**10.4**	**1,910**	**189**	**9.9**
Alameda	132	25	18.9	114	11	9.6	113	15	13.3	114	9	7.9	117	15	12.8	99	14	14.1	111	12	10.8
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	4	2	50.0	3	1	33.3	8	3	37.5	3	-	-	5	1	20.0	3	-	-	2	-	-
Butte	5	-	-	2	-	-	2	-	-	2	-	-	3	1	33.3	3	-	-	2	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-
Colusa	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	58	2	3.4	44	11	25.0	45	4	8.9	36	6	16.7	33	-	-	61	9	14.8	34	5	14.7
Del Norte	1	1	100.0	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	3	-	-	3	1	33.3	1	-	-	3	2	66.7	2	-	-	-	-	-
Fresno	49	4	8.2	49	4	8.2	46	7	15.2	44	7	15.9	32	3	9.4	58	10	17.2	46	7	15.2
Glenn	3	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-
Humboldt	1	-	-	3	-	-	2	-	-	1	1	100.0	-	-	-	-	-	-	1	-	-
Imperial	23	2	8.7	27	5	18.5	26	1	3.8	27	-	-	27	3	11.1	16	2	12.5	34	-	-
Inyo	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	40	3	7.5	28	4	14.3	36	3	8.3	39	3	7.7	32	4	12.5	46	2	4.3	37	-	-
Kings	3	1	33.3	3	-	-	7	-	-	2	-	-	3	-	-	5	-	-	4	-	-
Lake	1	-	-	3	-	-	-	-	-	1	-	-	1	-	-	2	-	-	-	-	-
Lassen	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	47	2	4.3	41	8	19.5	45	4	8.9	30	3	10.0	32	5	15.6	41	7	17.1	40	1	2.5
Los Angeles	753	82	10.9	742	76	10.2	704	65	9.2	697	61	8.8	646	59	9.1	625	55	8.8	562	47	8.4
Madera	9	-	-	3	-	-	7	-	-	2	-	-	1	-	-	12	-	-	4	-	-
Marin	7	2	28.6	7	2	28.6	8	-	-	4	-	-	9	-	-	4	1	25.0	8	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	5	1	20.0	-	-	-	1	-	-	1	-	-	-	-	-	3	-	-	1	-	-
Merced	13	2	15.4	6	1	16.7	7	-	-	7	-	-	3	-	-	5	-	-	10	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	37	2	5.4	20	2	10.0	28	2	7.1	23	3	13.0	18	1	5.6	17	-	-	13	1	7.7
Napa	5	-	-	4	1	25.0	1	-	-	6	-	-	6	-	-	3	-	-	4	2	50.0

* At the time of report preparation, drug susceptibility testing was 97 percent complete for culture positive cases reported in 2009. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

** INH=isoniazid

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 45. Tuberculosis Cases by Resistance to Isoniazid: Reporting Jurisdictions in California, 2003-2009

Reporting Jurisdiction	2003			2004			2005			2006			2007			2008			2009 *		
	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.	%
Nevada	1	1	100.0	1	1	100.0	1	-	-	2	-	-	-	-	-	2	-	-	-	-	-
Orange	208	21	10.1	204	19	9.3	211	26	12.3	202	22	10.9	187	20	10.7	187	22	11.8	163	27	16.6
Pasadena	8	-	-	5	-	-	12	-	-	6	-	-	4	-	-	3	-	-	3	-	-
Placer	8	-	-	1	-	-	2	-	-	3	-	-	10	-	-	1	-	-	3	1	33.3
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	55	3	5.5	54	4	7.4	51	4	7.8	62	11	17.7	67	8	11.9	69	7	10.1	46	4	8.7
Sacramento	88	10	11.4	79	6	7.6	86	8	9.3	75	6	8.0	79	11	13.9	69	6	8.7	71	10	14.1
San Benito	-	-	-	2	1	50.0	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
San Bernardino	56	4	7.1	57	6	10.5	51	7	13.7	52	6	11.5	47	4	8.5	64	4	6.3	59	5	8.5
San Diego	259	21	8.1	270	26	9.6	249	25	10.0	262	33	12.6	247	29	11.7	226	27	11.9	176	16	9.1
San Francisco	139	12	8.6	114	20	17.5	109	6	5.5	101	10	9.9	109	11	10.1	93	5	5.4	85	8	9.4
San Joaquin	53	5	9.4	45	2	4.4	39	1	2.6	59	4	6.8	33	5	15.2	49	6	12.2	56	6	10.7
San Luis Obispo	6	-	-	3	-	-	5	1	20.0	1	-	-	3	1	33.3	1	-	-	3	1	33.3
San Mateo	47	7	14.9	39	8	20.5	46	4	8.7	58	4	6.9	68	11	16.2	53	8	15.1	53	8	15.1
Santa Barbara	31	3	9.7	15	1	6.7	23	1	4.3	14	2	14.3	13	2	15.4	32	3	9.4	18	4	22.2
Santa Clara	168	18	10.7	169	24	14.2	155	27	17.4	181	15	8.3	194	28	14.4	163	28	17.2	151	13	8.6
Santa Cruz	7	-	-	8	1	12.5	7	-	-	3	-	-	6	1	16.7	5	-	-	5	-	-
Shasta	8	2	25.0	3	-	-	5	-	-	4	-	-	2	-	-	2	-	-	1	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	12	1	8.3	21	1	4.8	25	2	8.0	18	2	11.1	28	3	10.7	19	3	15.8	18	1	5.6
Sonoma	11	1	9.1	14	2	14.3	10	-	-	13	2	15.4	12	2	16.7	7	-	-	8	1	12.5
Stanislaus	13	2	15.4	14	1	7.1	11	-	-	10	2	20.0	13	1	7.7	19	-	-	18	4	22.2
Sutter	5	1	20.0	-	-	-	1	-	-	2	-	-	1	-	-	6	-	-	-	-	-
Tehama	1	-	-	1	-	-	2	1	50.0	1	-	-	3	1	33.3	-	-	-	1	1	100.0
Trinity	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tulare	12	-	-	17	1	5.9	15	-	-	13	-	-	16	1	6.3	19	2	10.5	13	1	7.7
Tuolumne	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Ventura	35	-	-	41	2	4.9	32	3	9.4	25	3	12.0	26	3	11.5	35	1	2.9	36	2	5.6
Yolo	11	1	9.1	4	-	-	9	1	11.1	2	-	-	7	-	-	4	-	-	7	1	14.3
Yuba	3	1	33.3	7	4	57.1	1	1	100.0	-	-	-	5	-	-	3	1	33.3	-	-	-

* At the time of report preparation, drug susceptibility testing was 97 percent complete for culture positive cases reported in 2009. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

** INH=isoniazid

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 46. Multidrug-resistant (MDR) Tuberculosis Cases*: Reporting Jurisdictions in California, 2003-2009

Reporting Jurisdiction	2003			2004			2005			2006			2007			2008			2009 **		
	No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance	
		No.	%		No.	%		No.	%		No.	%		No.	%		No.	%		No.	%
California	**2,442**	**33**	**1.4**	**2,290**	**39**	**1.7**	**2,248**	**36**	**1.6**	**2,214**	**34**	**1.5**	**2,153**	**28**	**1.3**	**2,137**	**31**	**1.5**	**1,910**	**33**	**1.7**
Alameda	132	1	0.8	114	1	0.9	113	3	2.7	114	-	-	117	1	0.9	99	2	2.0	111	4	3.6
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	4	-	-	3	-	-	8	1	12.5	3	-	-	5	-	-	3	-	-	2	-	-
Butte	5	-	-	2	-	-	2	-	-	2	-	-	3	1	33.3	3	-	-	2	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-
Colusa	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	58	-	-	44	2	4.5	45	2	4.4	36	-	-	33	-	-	61	1	1.6	34	1	2.9
Del Norte	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
El Dorado	-	-	-	3	-	-	3	-	-	1	-	-	3	1	33.3	2	-	-	-	-	-
Fresno	49	-	-	49	2	4.1	46	3	6.5	44	2	4.5	32	1	3.1	58	3	5.2	46	3	6.5
Glenn	3	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-
Humboldt	1	-	-	3	-	-	2	-	-	1	-	-	-	-	-	-	-	-	1	-	-
Imperial	23	-	-	27	2	7.4	26	-	-	27	-	-	27	1	3.7	16	-	-	34	-	-
Inyo	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	40	1	2.5	28	-	-	36	-	-	39	1	2.6	32	-	-	46	1	2.2	37	-	-
Kings	3	-	-	3	-	-	7	-	-	2	-	-	3	-	-	5	-	-	4	-	-
Lake	1	-	-	3	-	-	-	-	-	1	-	-	1	-	-	2	-	-	-	-	-
Lassen	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	47	1	2.1	41	1	2.4	45	-	-	30	-	-	32	-	-	41	1	2.4	40	-	-
Los Angeles	753	10	1.3	742	10	1.3	703	11	1.6	697	11	1.6	646	5	0.8	625	7	1.1	562	5	0.9
Madera	9	-	-	3	-	-	7	-	-	2	-	-	1	-	-	12	-	-	4	-	-
Marin	7	-	-	7	-	-	8	-	-	4	-	-	9	-	-	4	-	-	8	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	5	1	20.0	-	-	-	1	-	-	1	-	-	-	-	-	3	-	-	1	-	-
Merced	13	1	7.7	6	1	16.7	7	-	-	7	-	-	3	-	-	5	-	-	10	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	37	-	-	20	1	5.0	28	-	-	23	-	-	18	-	-	16	-	-	13	-	-
Napa	5	-	-	4	-	-	1	-	-	6	-	-	6	-	-	3	-	-	4	-	-

* Cases with resistance to at least isoniazid, and rifampin or rifabutin.

** At the time of report preparation, initial drug susceptibility testing was 97 percent complete for culture positive cases reported in 2009. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 46. Multidrug-resistant (MDR) Tuberculosis Cases*: Reporting Jurisdictions in California, 2003-2009

Reporting Jurisdiction	2003			2004			2005			2006			2007			2008			2009 **		
	No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance		No. with MDR Testing	Cases with Multidrug Resistance	
		No.	%		No.	%		No.	%		No.	%		No.	%		No.	%		No.	%
Nevada	1	-	-	1	-	-	1	-	-	2	-	-	-	-	-	2	-	-	-	-	-
Orange	208	3	1.4	204	1	0.5	211	2	0.9	202	4	2.0	187	3	1.6	187	2	1.1	163	6	3.7
Pasadena	8	-	-	5	-	-	12	-	-	6	-	-	4	-	-	3	-	-	3	-	-
Placer	8	-	-	1	-	-	2	-	-	3	-	-	10	-	-	1	-	-	3	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	55	1	1.8	54	1	1.9	51	1	2.0	62	5	8.1	67	1	1.5	69	-	-	46	1	2.2
Sacramento	88	1	1.1	79	5	6.3	86	3	3.5	75	-	-	79	1	1.3	69	3	4.3	71	2	2.8
San Benito	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
San Bernardino	55	-	-	57	-	-	51	-	-	51	-	-	47	1	2.1	64	-	-	59	-	-
San Diego	259	5	1.9	270	2	0.7	249	3	1.2	262	5	1.9	247	4	1.6	226	3	1.3	176	3	1.7
San Francisco	139	2	1.4	114	3	2.6	109	1	0.9	101	1	1.0	109	2	1.8	93	1	1.1	85	-	-
San Joaquin	53	1	1.9	45	-	-	39	1	2.6	59	-	-	33	-	-	49	1	2.0	56	4	7.1
San Luis Obispo	6	-	-	3	-	-	5	-	-	1	-	-	3	-	-	1	-	-	3	-	-
San Mateo	47	-	-	39	1	2.6	46	-	-	58	-	-	68	1	1.5	53	2	3.8	53	1	1.9
Santa Barbara	31	-	-	15	-	-	23	-	-	14	-	-	13	-	-	32	-	-	18	-	-
Santa Clara	168	-	-	169	3	1.8	155	4	2.6	181	2	1.1	194	5	2.6	163	2	1.2	151	2	1.3
Santa Cruz	7	-	-	8	-	-	7	-	-	3	-	-	6	-	-	5	-	-	5	-	-
Shasta	8	1	12.5	3	-	-	5	-	-	4	-	-	2	-	-	2	-	-	1	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	12	-	-	21	-	-	25	-	-	18	-	-	27	-	-	19	-	-	18	-	-
Sonoma	11	1	9.1	14	-	-	10	-	-	13	2	15.4	12	-	-	7	-	-	8	-	-
Stanislaus	13	1	7.7	14	-	-	11	-	-	10	1	10.0	13	-	-	19	-	-	18	-	-
Sutter	5	-	-	-	-	-	1	-	-	2	-	-	1	-	-	6	-	-	-	-	-
Tehama	1	-	-	1	-	-	2	-	-	1	-	-	3	-	-	-	-	-	1	-	-
Trinity	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tulare	12	-	-	17	-	-	15	-	-	13	-	-	16	-	-	19	1	5.3	13	-	-
Tuolumne	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Ventura	35	-	-	41	-	-	31	-	-	25	-	-	26	-	-	35	-	-	36	-	-
Yolo	11	1	9.1	3	-	-	9	1	11.1	2	-	-	7	-	-	4	-	-	7	1	14.3
Yuba	3	1	33.3	7	3	42.9	1	-	-	-	-	-	5	-	-	3	1	33.3	-	-	-

* Cases with resistance to at least isoniazid, and rifampin or rifabutin.

** At the time of report preparation, initial drug susceptibility testing was 97 percent complete for culture positive cases reported in 2009. As additional Initial Drug Susceptibility Reports are submitted, overall proportions of drug resistance may change slightly.

- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 47. Tuberculosis Cases by Outcome of Therapy (Tx) : Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)*															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,658**	**1,824**	**68.6**	**382**	**14.4**	**197**	**7.4**	**158**	**5.9**	**39**	**1.5**	**14**	**0.5**	**19**	**0.7**	**25**	**0.9**
Alameda	147	101	68.7	22	15.0	12	8.2	6	4.1	2	1.4	1	0.7	3	2.0	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	6	5	83.3	-	-	-	-	-	-	-	-	1	16.7	-	-	-	-
Butte	3	2	66.7	1	33.3	-	-	-	-	-	-	-	-	-	-	-	-
Calaveras	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	50	36	72.0	6	12.0	4	8.0	3	6.0	1	2.0	-	-	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	3	1	33.3	1	33.3	-	-	1	33.3	-	-	-	-	-	-	-	-
Fresno	41	26	63.4	10	24.4	2	4.9	1	2.4	-	-	1	2.4	1	2.4	-	-
Glenn	2	1	50.0	-	-	-	-	1	50.0	-	-	-	-	-	-	-	-
Humboldt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	27	16	59.3	3	11.1	2	7.4	4	14.8	2	7.4	-	-	-	-	-	-
Inyo	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	38	20	52.6	8	21.1	8	21.1	1	2.6	-	-	1	2.6	-	-	-	-
Kings	6	3	50.0	1	16.7	1	16.7	-	-	1	16.7	-	-	-	-	-	-
Lake	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	38	24	63.2	4	10.5	5	13.2	4	10.5	-	-	1	2.6	-	-	-	-
Los Angeles	790	563	71.3	99	12.5	42	5.3	56	7.1	17	2.2	3	0.4	-	-	10	1.3
Madera	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marin	16	13	81.3	-	-	2	12.5	1	6.3	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merced	4	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	22	18	81.8	2	9.1	1	4.5	-	-	1	4.5	-	-	-	-	-	-
Napa	7	6	85.7	1	14.3	-	-	-	-	-	-	-	-	-	-	-	-

* Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 47. Tuberculosis Cases by Outcome of Therapy (Tx) : Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)*															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	211	126	59.7	52	24.6	18	8.5	9	4.3	1	0.5	2	0.9	1	0.5	2	0.9
Pasadena	5	2	40.0	1	20.0	-	-	1	20.0	1	20.0	-	-	-	-	-	-
Placer	14	9	64.3	2	14.3	2	14.3	1	7.1	-	-	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	75	49	65.3	8	10.7	6	8.0	7	9.3	1	1.3	1	1.3	1	1.3	2	2.7
Sacramento	106	77	72.6	14	13.2	3	2.8	9	8.5	1	0.9	-	-	1	0.9	1	0.9
San Benito	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	58	37	63.8	5	8.6	9	15.5	5	8.6	1	1.7	-	-	-	-	1	1.7
San Diego	274	183	66.8	45	16.4	23	8.4	9	3.3	6	2.2	2	0.7	6	2.2	-	-
San Francisco	142	96	67.6	21	14.8	7	4.9	15	10.6	2	1.4	-	-	1	0.7	-	-
San Joaquin	48	32	66.7	10	20.8	2	4.2	4	8.3	-	-	-	-	-	-	-	-
San Luis Obispo	3	2	66.7	1	33.3	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	84	59	70.2	14	16.7	7	8.3	3	3.6	-	-	-	-	-	-	1	1.2
Santa Barbara	14	11	78.6	-	-	2	14.3	-	-	-	-	-	-	1	7.1	-	-
Santa Clara	237	169	71.3	32	13.5	25	10.5	9	3.8	1	0.4	-	-	-	-	1	0.4
Santa Cruz	10	6	60.0	2	20.0	1	10.0	-	-	-	-	-	-	1	10.0	-	-
Shasta	4	4	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	37	21	56.8	6	16.2	2	5.4	3	8.1	-	-	1	2.7	2	5.4	2	5.4
Sonoma	12	10	83.3	1	8.3	1	8.3	-	-	-	-	-	-	-	-	-	-
Stanislaus	16	11	68.8	3	18.8	1	6.3	-	-	-	-	-	-	-	-	1	6.3
Sutter	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehama	4	-	-	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	25	19	76.0	1	4.0	1	4.0	2	8.0	1	4.0	-	-	-	-	1	4.0
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	56	44	78.6	2	3.6	3	5.4	3	5.4	-	-	-	-	1	1.8	3	5.4
Yolo	9	9	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	6	2	33.3	-	-	4	66.7	-	-	-	-	-	-	-	-	-	-

* Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 48. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated*: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)**															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,577**	**1,817**	**70.5**	**330**	**12.8**	**193**	**7.5**	**146**	**5.7**	**39**	**1.5**	**13**	**0.5**	**19**	**0.7**	**20**	**0.8**
Alameda	143	101	70.6	18	12.6	12	8.4	6	4.2	2	1.4	1	0.7	3	2.1	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	6	5	83.3	-	-	-	-	-	-	-	-	1	16.7	-	-	-	-
Butte	2	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calaveras	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	49	36	73.5	5	10.2	4	8.2	3	6.1	1	2.0	-	-	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	2	1	50.0	-	-	-	-	1	50.0	-	-	-	-	-	-	-	-
Fresno	39	26	66.7	8	20.5	2	5.1	1	2.6	-	-	1	2.6	1	2.6	-	-
Glenn	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Humboldt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	26	16	61.5	2	7.7	2	7.7	4	15.4	2	7.7	-	-	-	-	-	-
Inyo	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	36	20	55.6	7	19.4	8	22.2	1	2.8	-	-	-	-	-	-	-	-
Kings	5	3	60.0	-	-	1	20.0	-	-	1	20.0	-	-	-	-	-	-
Lake	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	37	24	64.9	4	10.8	5	13.5	3	8.1	-	-	1	2.7	-	-	-	-
Los Angeles	769	559	72.7	88	11.4	40	5.2	54	7.0	17	2.2	3	0.4	-	-	8	1.0
Madera	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marin	16	13	81.3	-	-	2	12.5	1	6.3	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	3	3	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merced	4	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	21	18	85.7	1	4.8	1	4.8	-	-	1	4.8	-	-	-	-	-	-
Napa	7	6	85.7	1	14.3	-	-	-	-	-	-	-	-	-	-	-	-

* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
** Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 48. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated*: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)**															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	204	126	61.8	48	23.5	16	7.8	8	3.9	1	0.5	2	1.0	1	0.5	2	1.0
Pasadena	5	2	40.0	1	20.0	-	-	1	20.0	1	20.0	-	-	-	-	-	-
Placer	14	9	64.3	2	14.3	2	14.3	1	7.1	-	-	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	73	49	67.1	7	9.6	6	8.2	6	8.2	1	1.4	1	1.4	1	1.4	2	2.7
Sacramento	104	77	74.0	13	12.5	3	2.9	9	8.7	1	1.0	-	-	1	1.0	-	-
San Benito	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	56	37	66.1	4	7.1	9	16.1	5	8.9	1	1.8	-	-	-	-	-	-
San Diego	264	182	68.9	38	14.4	23	8.7	7	2.7	6	2.3	2	0.8	6	2.3	-	-
San Francisco	137	96	70.1	18	13.1	7	5.1	13	9.5	2	1.5	-	-	1	0.7	-	-
San Joaquin	44	30	68.2	9	20.5	2	4.5	3	6.8	-	-	-	-	-	-	-	-
San Luis Obispo	3	2	66.7	1	33.3	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	82	59	72.0	12	14.6	7	8.5	3	3.7	-	-	-	-	-	-	1	1.2
Santa Barbara	14	11	78.6	-	-	2	14.3	-	-	-	-	-	-	1	7.1	-	-
Santa Clara	230	169	73.5	26	11.3	25	10.9	9	3.9	1	0.4	-	-	-	-	-	-
Santa Cruz	10	6	60.0	2	20.0	1	10.0	-	-	-	-	-	-	1	10.0	-	-
Shasta	4	4	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	36	21	58.3	5	13.9	2	5.6	3	8.3	-	-	1	2.8	2	5.6	2	5.6
Sonoma	12	10	83.3	1	8.3	1	8.3	-	-	-	-	-	-	-	-	-	-
Stanislaus	16	11	68.8	3	18.8	1	6.3	-	-	-	-	-	-	-	-	1	6.3
Sutter	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehama	4	-	-	3	75.0	1	25.0	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	24	19	79.2	1	4.2	1	4.2	1	4.2	1	4.2	-	-	-	-	1	4.2
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	55	44	80.0	1	1.8	3	5.5	3	5.5	-	-	-	-	1	1.8	3	5.5
Yolo	9	9	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	6	2	33.3	-	-	4	66.7	-	-	-	-	-	-	-	-	-	-

* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
** Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 49. Outcome in Tuberculosis Cases for Whom Greater than One Year of Therapy (Tx) was Indicated*: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)**															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**81**	**7**	**8.6**	**52**	**64.0**	**4**	**4.9**	**12**	**14.8**	**-**	**-**	**1**	**1.0**	**-**	**-**	**5**	**6.2**
Alameda	4	-	-	4	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Alpine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Berkeley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butte	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Calaveras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colusa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contra Costa	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Del Norte	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Fresno	2	-	-	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Glenn	1	-	-	-	-	-	-	1	100.0	-	-	-	-	-	-	-	-
Humboldt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Imperial	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Inyo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kern	2	-	-	1	50.0	-	-	-	-	-	-	1	50.0	-	-	-	-
Kings	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lassen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Beach	1	-	-	-	-	-	-	1	100.0	-	-	-	-	-	-	-	-
Los Angeles	21	4	19.0	11	52.0	2	9.5	2	9.5	-	-	-	-	-	-	2	9.5
Madera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mariposa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mendocino	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merced	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monterey	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Napa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
** Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

California Department of Public Health, Tuberculosis Control Branch

Table 49. Outcome in Tuberculosis Cases for Whom Greater than One Year of Therapy (Tx) was Indicated*: Reporting Jurisdictions in California, 2007

Reporting Jurisdiction	Cases Starting Therapy	Outcome (Reason Therapy Stopped)**															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange	7	-	-	4	57.0	2	28.6	1	14.3	-	-	-	-	-	-	-	-
Pasadena	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Placer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plumas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverside	2	-	-	1	50.0	-	-	1	50.0	-	-	-	-	-	-	-	-
Sacramento	2	-	-	1	50.0	-	-	-	-	-	-	-	-	-	-	1	50.0
San Benito	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Bernardino	2	-	-	1	50.0	-	-	-	-	-	-	-	-	-	-	1	50.0
San Diego	10	1	10.0	7	70.0	-	-	2	20.0	-	-	-	-	-	-	-	-
San Francisco	5	-	-	3	60.0	-	-	2	40.0	-	-	-	-	-	-	-	-
San Joaquin	4	2	50.0	1	25.0	-	-	1	25.0	-	-	-	-	-	-	-	-
San Luis Obispo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Mateo	2	-	-	2	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Santa Barbara	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Clara	7	-	-	6	86.0	-	-	-	-	-	-	-	-	-	-	1	14.3
Santa Cruz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shasta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sierra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solano	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Sonoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stanislaus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sutter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehama	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tulare	1	-	-	-	-	-	-	1	100.0	-	-	-	-	-	-	-	-
Tuolumne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura	1	-	-	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-
Yolo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yuba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
** Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

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Table 50.Tuberculosis Cases by Outcome of Therapy (Tx) and Risk Factor for Tuberculosis: California, 2007

	Cases Starting Therapy	Reason Therapy Stopped*															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,658**	**1,824**	**68.6**	**382**	**14.4**	**197**	**7.4**	**158**	**5.9**	**39**	**1.5**	**14**	**0.5**	**19**	**0.7**	**25**	**0.9**
Diagnosed in Correctional Facility																	
No	2,584	1,789	69.2	377	14.6	179	6.9	158	6.1	30	1.2	14	0.5	14	0.5	23	0.9
Yes	74	35	47.3	5	6.8	18	24.3	-	-	9	12.2	-	-	5	6.8	2	2.7
Federal Prison	*17*	*8*	*47.1*	-	-	*5*	*29.4*	-	-	2	11.8	-	-	*2*	*11.8*	-	-
State Prison	*7*	*3*	*42.9*	-	-	*4*	*57.1*	-	-	-	-	-	-	-	-	-	-
Local Jail	*38*	*21*	*55.3*	*4*	*10.5*	*6*	*15.8*	-	-	*4*	*10.5*	-	-	*1*	*2.6*	*2*	*5.3*
Juvenile Facility	*1*	*1*	*100.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other/Unknown	*11*	*2*	*18.2*	*1*	*9.1*	*3*	*27.3*	-	-	*3*	*27.3*	-	-	*2*	*18.2*	-	-
Diagnosed in Long-term Care Facility																	
No	2,621	1,801	68.7	377	14.4	195	7.4	151	5.8	39	1.5	14	0.5	19	0.7	25	1.0
Yes	36	22	61.1	5	13.9	2	5.6	7	19.4	-	-	-	-	-	-	-	-
Unknown	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Excess Alcohol Use																	
No	2,358	1,660	70.4	329	14.0	164	7.0	130	5.5	30	1.3	13	0.6	12	0.5	20	0.8
Yes	241	142	58.9	44	18.3	26	10.8	14	5.8	7	2.9	-	-	7	2.9	1	0.4
Unknown	59	22	37.3	9	15.3	7	11.9	14	23.7	2	3.4	1	1.7	-	-	4	6.8
Homeless																	
No	2,493	1,730	69.4	355	14.2	183	7.3	144	5.8	29	1.2	14	0.6	17	0.7	21	0.8
Yes	151	86	57.0	27	17.9	11	7.3	13	8.6	9	6.0	-	-	2	1.3	3	2.0
Unknown	14	8	57.1	-	-	3	21.4	1	7.1	1	7.1	-	-	-	-	1	7.1
Injecting Drug Use																	
No	2,561	1,786	69.7	361	14.1	188	7.3	137	5.3	36	1.4	13	0.5	19	0.7	21	0.8
Yes	44	22	50.0	11	25.0	3	6.8	6	13.6	2	4.5	-	-	-	-	-	-
Unknown	53	16	30.2	10	18.9	6	11.3	15	28.3	1	1.9	1	1.9	-	-	4	7.5
Non-Injecting Drug Use																	
No	2,448	1,708	69.8	355	14.5	172	7.0	136	5.6	30	1.2	13	0.5	15	0.6	19	0.8
Yes	157	103	65.6	16	10.2	17	10.8	8	5.1	6	3.8	-	-	4	2.5	3	1.9
Unknown	53	13	24.5	11	20.8	8	15.1	14	26.4	3	5.7	1	1.9	-	-	3	5.7

* Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

Table 51. Outcome in Tuberculosis Cases for Whom One Year or Less of Therapy (Tx) was Indicated*, by Risk Factor for Tuberculosis: California, 2007

	Cases Starting Therapy	Outcome (Reason Therapy Stppped)**															
		Completed Tx ≤ 12 months		Completed Tx > 12 months		Moved		Died		Lost		Refused		Other/ Unknown		No Information	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
California	**2,577**	**1,817**	**70.5**	**330**	**12.8**	**193**	**7.5**	**146**	**5.7**	**39**	**1.5**	**13**	**0.5**	**19**	**0.7**	**20**	**0.8**
Diagnosed in Correctional Facility																	
No	2,504	1,782	71.2	326	13.0	175	7.0	146	5.8	30	1.2	13	0.5	14	0.6	18	0.7
Yes	73	35	47.9	4	5.5	18	24.7	-	-	9	12.3	-	-	5	6.8	2	2.7
Federal Prison	*17*	*8*	*47.1*	-	-	*5*	*29.4*	-	-	*2*	*11.8*	-	-	*2*	*11.8*	-	-
State Prison	*7*	*3*	*42.9*	-	-	*4*	*57.1*	-	-	-	-	-	-	-	-	-	-
Local Jail	*37*	*21*	*56.8*	*3*	*8.1*	*6*	*16.2*	-	-	*4*	*10.8*	-	-	*1*	*2.7*	*2*	*5.4*
Juvenile Facility	*1*	*1*	*100.0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other/Unknown	*11*	*2*	*18.2*	*1*	*9.1*	*3*	*27.3*	-	-	*3*	*27.3*	-	-	*2*	*18.2*	-	-
Diagnosed in Long-term Care Facility																	
No	2,543	1,795	70.6	327	12.9	191	7.5	139	5.5	39	1.5	13	0.5	19	0.7	20	0.8
Yes	33	21	63.6	3	9.1	2	6.1	7	21.2	-	-	-	-	-	-	-	-
Unknown	1	1	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Excess Alcohol Use																	
No	2,287	1,654	72.3	282	12.3	160	7.0	121	5.3	30	1.3	12	0.5	12	0.5	16	0.7
Yes	234	141	60.3	40	17.1	26	11.1	13	5.6	7	3.0	-	-	7	3.0	-	-
Unknown	56	22	39.3	8	14.3	7	12.5	12	21.4	2	3.6	1	1.8	-	-	4	7.1
Homeless																	
No	2,416	1,723	71.3	306	12.7	179	7.4	133	5.5	29	1.2	13	0.5	17	0.7	16	0.7
Yes	148	86	58.1	24	16.2	11	7.4	13	8.8	9	6.1	-	-	2	1.4	3	2.0
Unknown	13	8	61.5	-	-	3	23.1	-	-	1	7.7	-	-	-	-	1	7.7
Injecting Drug Use																	
No	2,485	1,779	71.6	311	12.5	184	7.4	128	5.2	36	1.4	12	0.5	19	0.8	16	0.6
Yes	43	22	51.2	11	25.6	3	7.0	5	11.6	2	4.7	-	-	-	-	-	-
Unknown	49	16	32.7	8	16.3	6	12.2	13	26.5	1	2.0	1	2.0	-	-	4	8.2
Non-Injecting Drug Use																	
No	2,374	1,701	71.7	306	12.9	168	7.1	127	5.3	30	1.3	12	0.5	15	0.6	15	0.6
Yes	154	103	66.9	15	9.7	17	11.0	7	4.5	6	3.9	-	-	4	2.6	2	1.3
Unknown	49	13	26.5	9	18.4	8	16.3	12	24.5	3	6.1	1	2.0	-	-	3	6.1

* Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
** Patient outcome in jurisdiction reporting the case.
- Indicates zero cases or zero percent.

Figure 1. Number of Tuberculosis Cases: California, 1930-2009

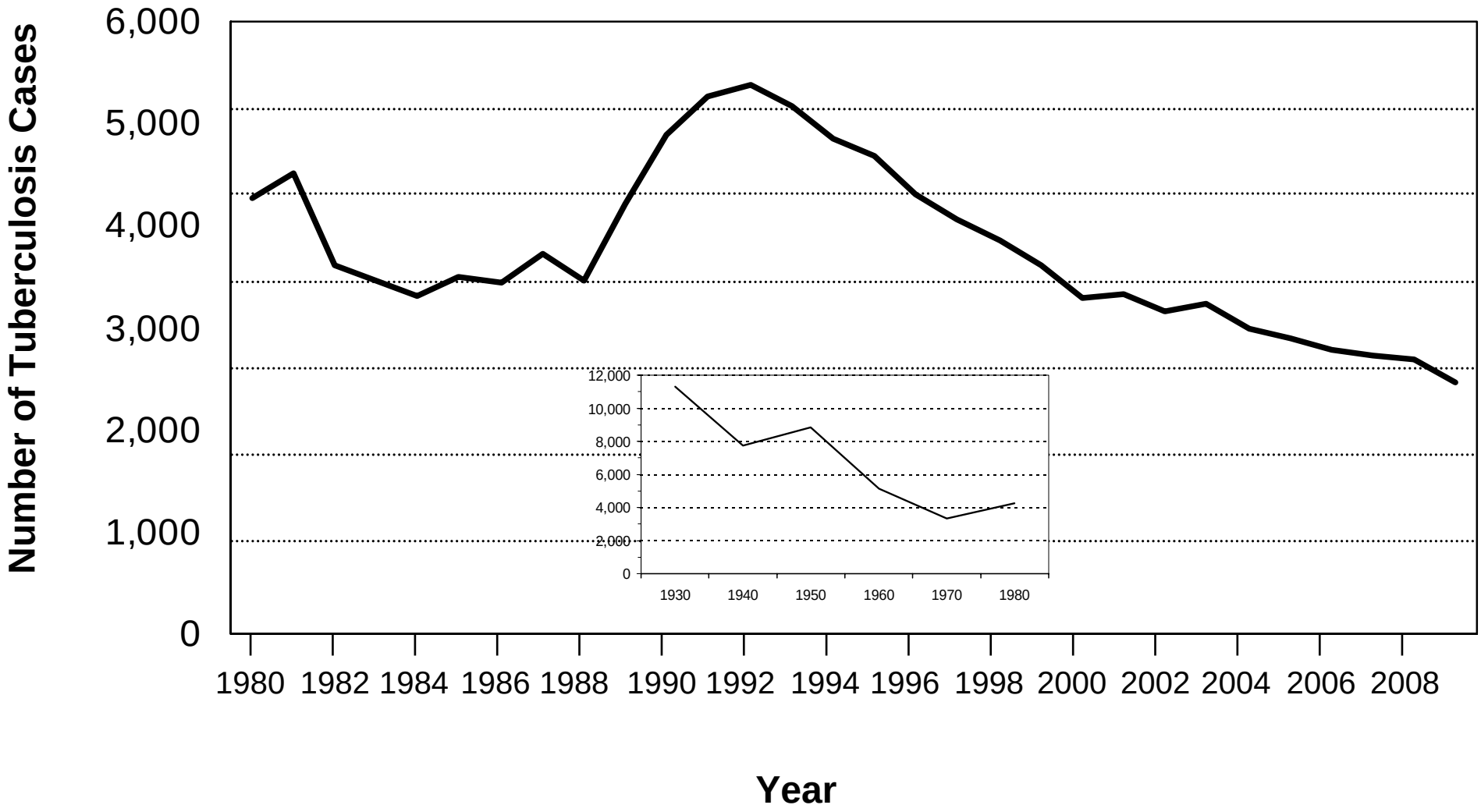

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Figure 2. Number of Tuberculosis Cases and Case Rates: California, 2000-2009

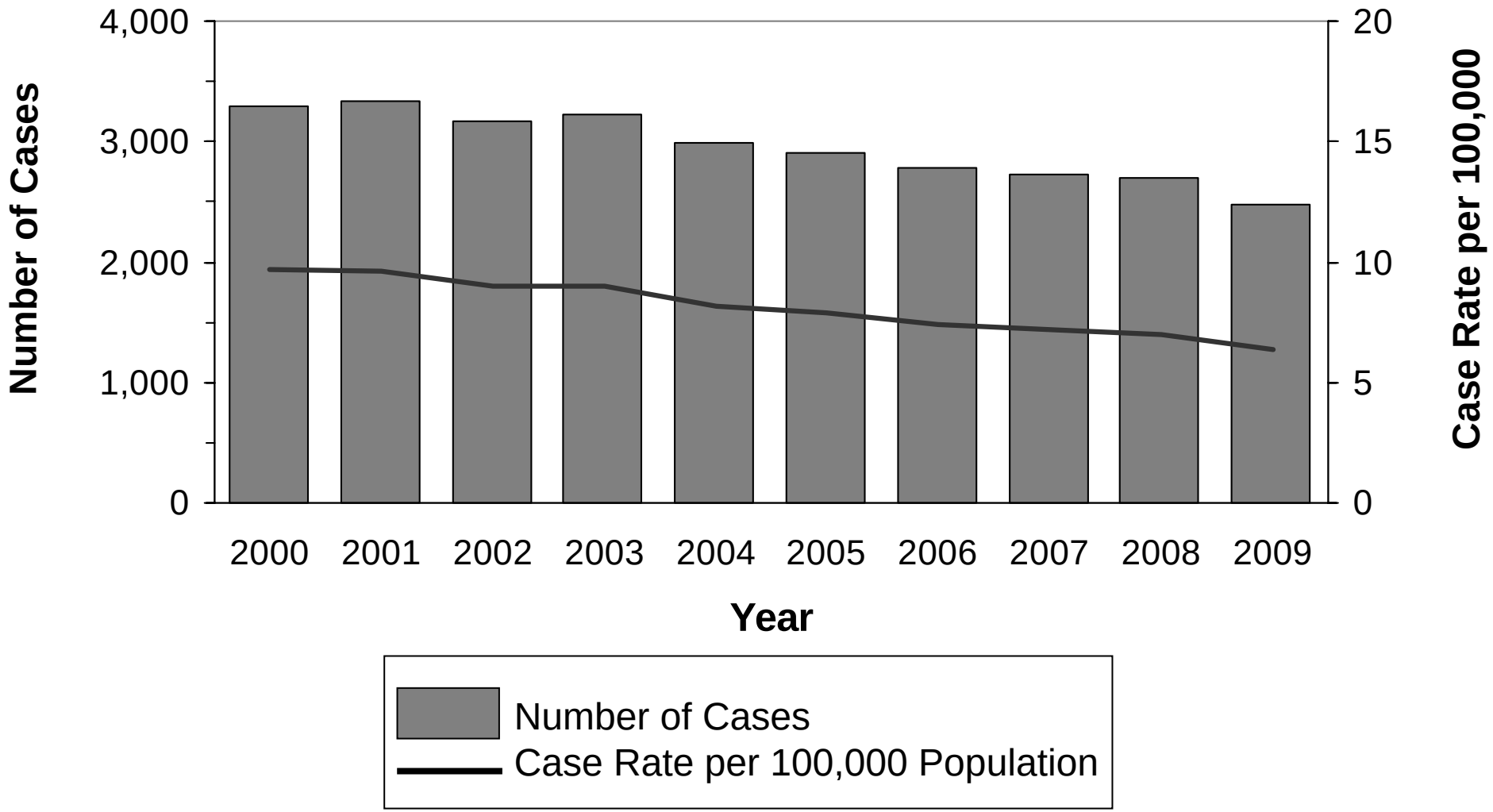

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Figure 3. Tuberculosis Cases by Race/Ethnicity: California, 2009

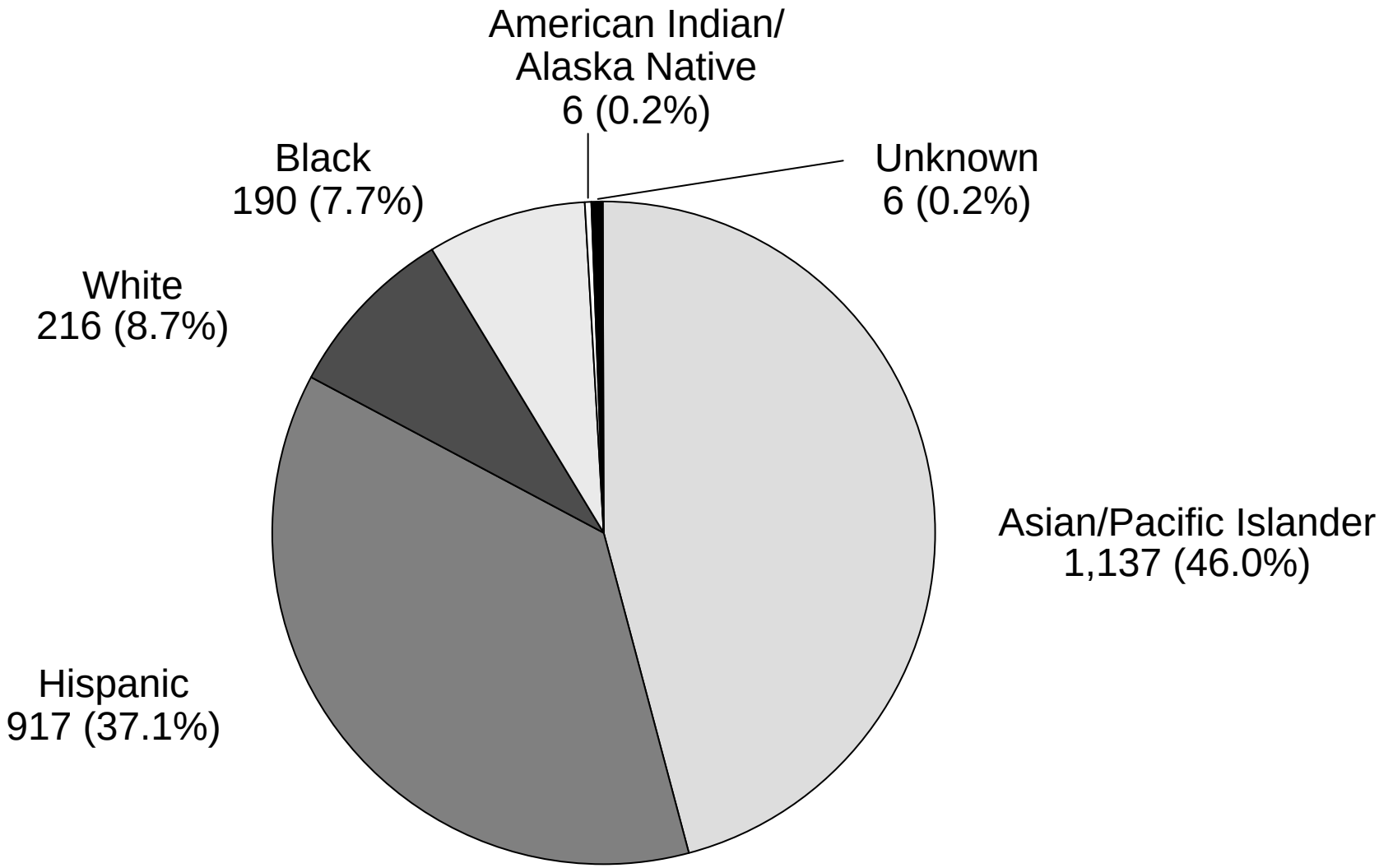

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Figure 4. Tuberculosis Case Rates by Race/Ethnicity: California, 2000-2009

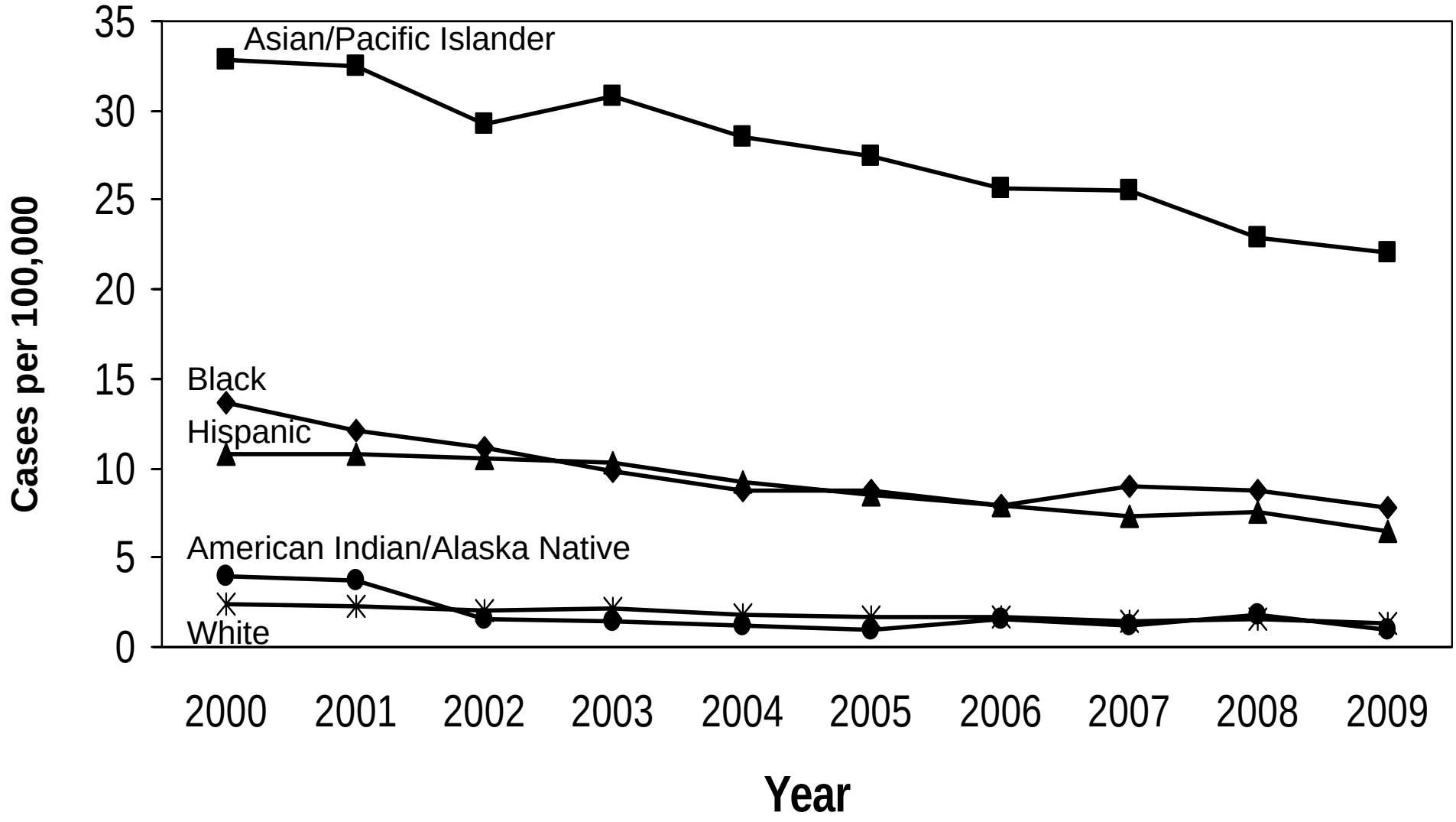

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Figure 5. Tuberculosis Cases in Foreign-born and U.S.-born Persons: California, 2000-2009

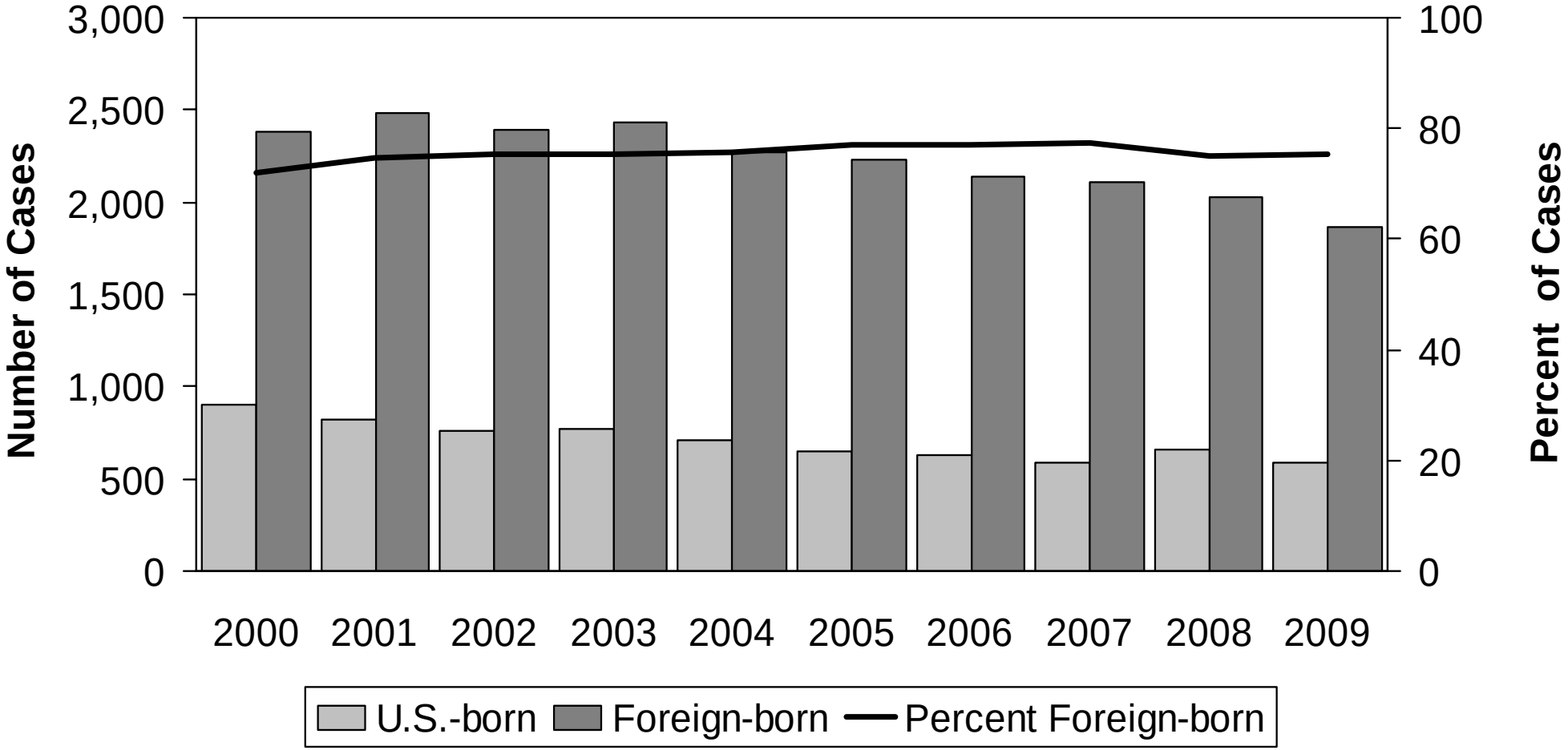

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Figure 6. Tuberculosis Cases by Country of Origin: California, 2009

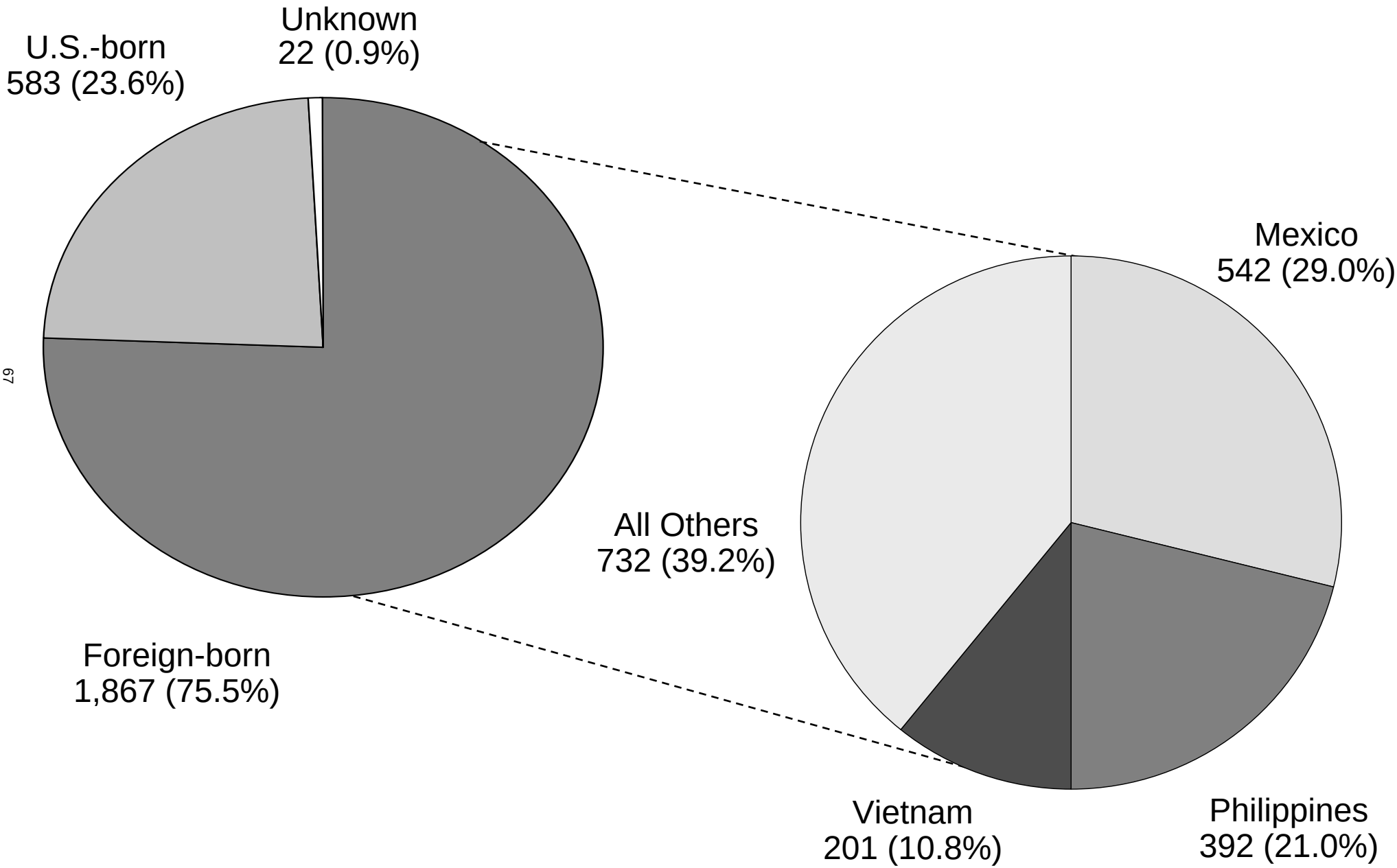

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Figure 7. Tuberculosis Cases in Persons 0-4 Years of Age: California, 2000-2009

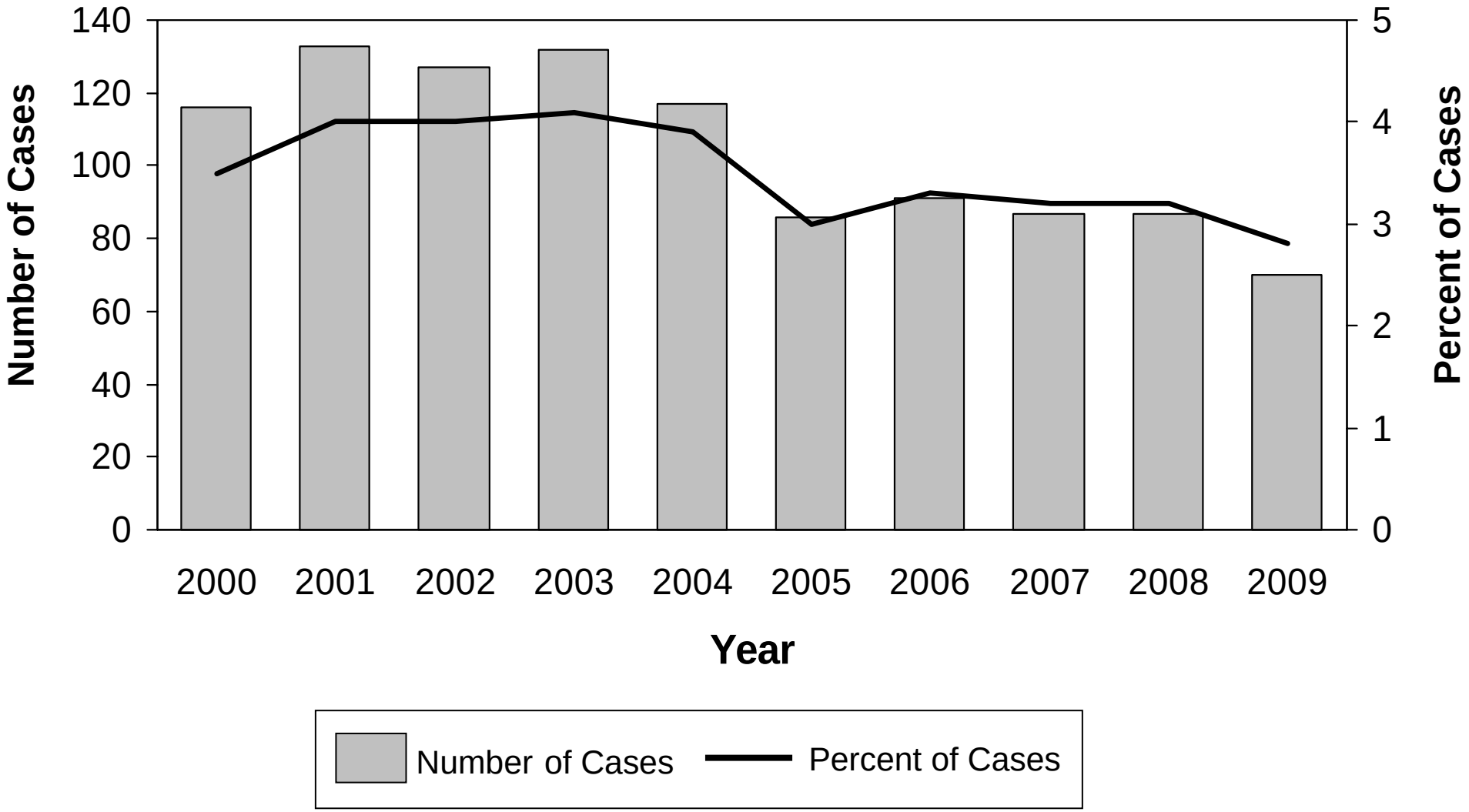

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Figure 8. Tuberculosis Cases by Verification Criteria: California, 2009

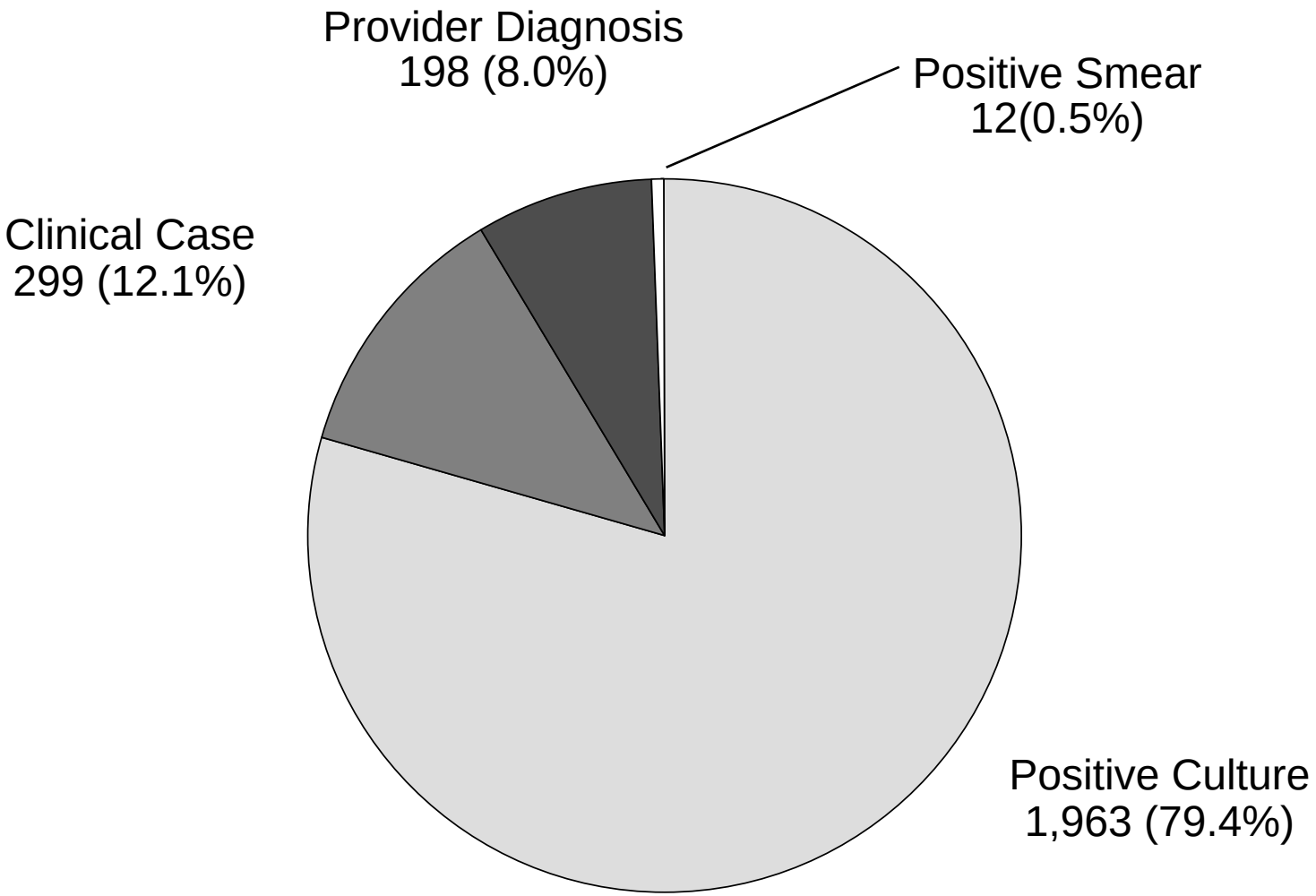

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Figure 9. Deaths in Persons with Tuberculosis: California, 1998-2007

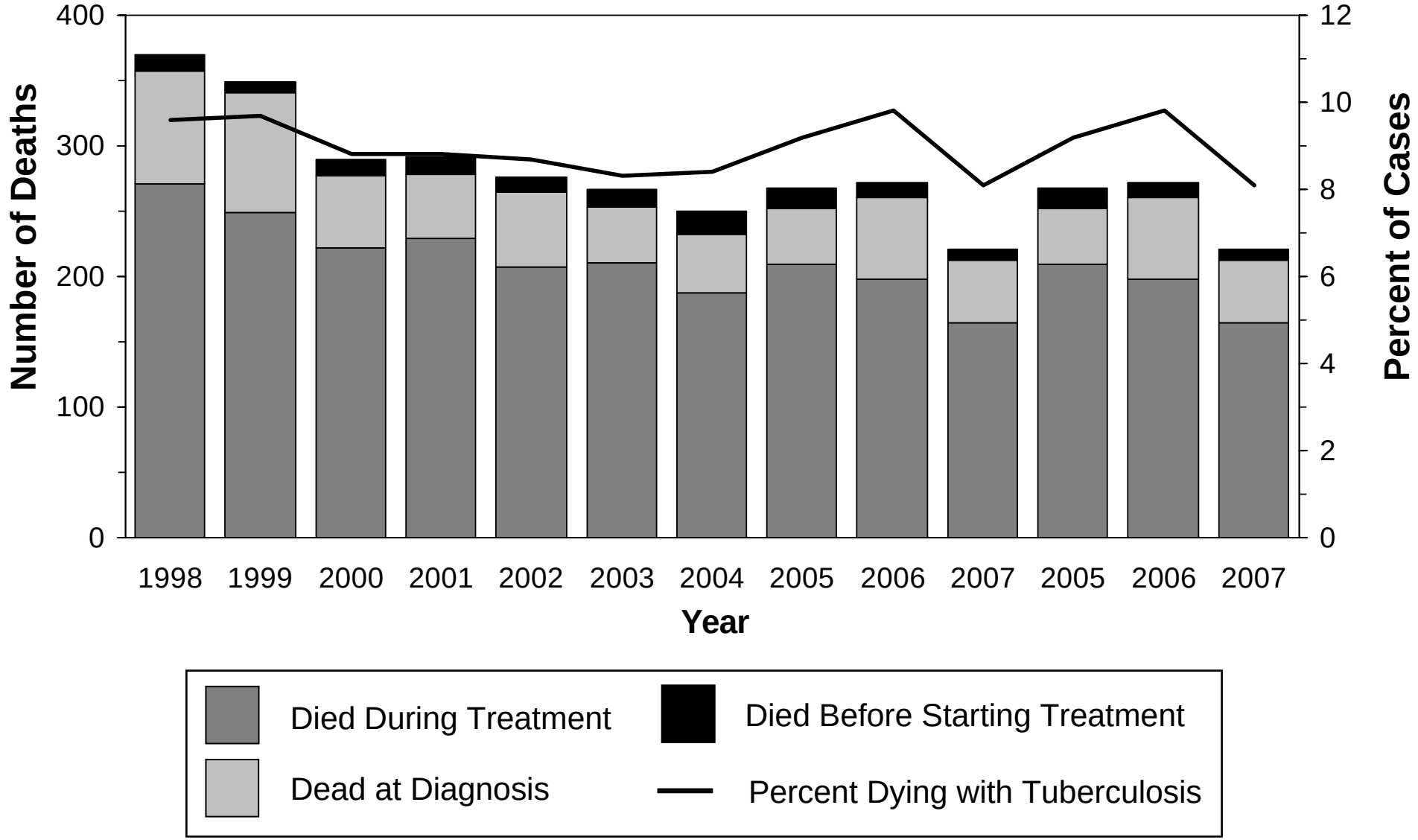

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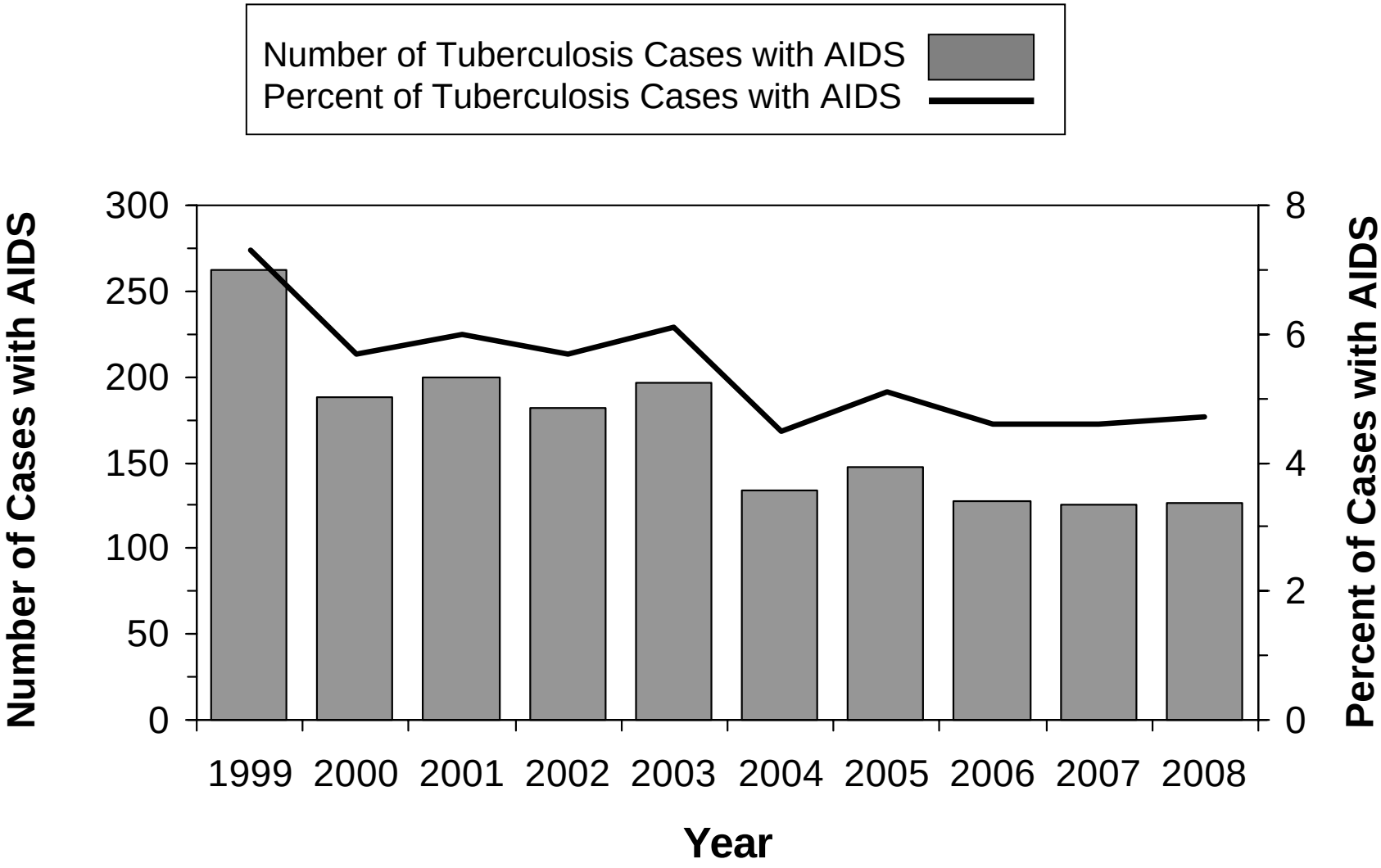
Figure 10. Tuberculosis Cases by AIDS Diagnosis*: California, 1999-2008



* Match found in AIDS Case Registry, California Office of AIDS.

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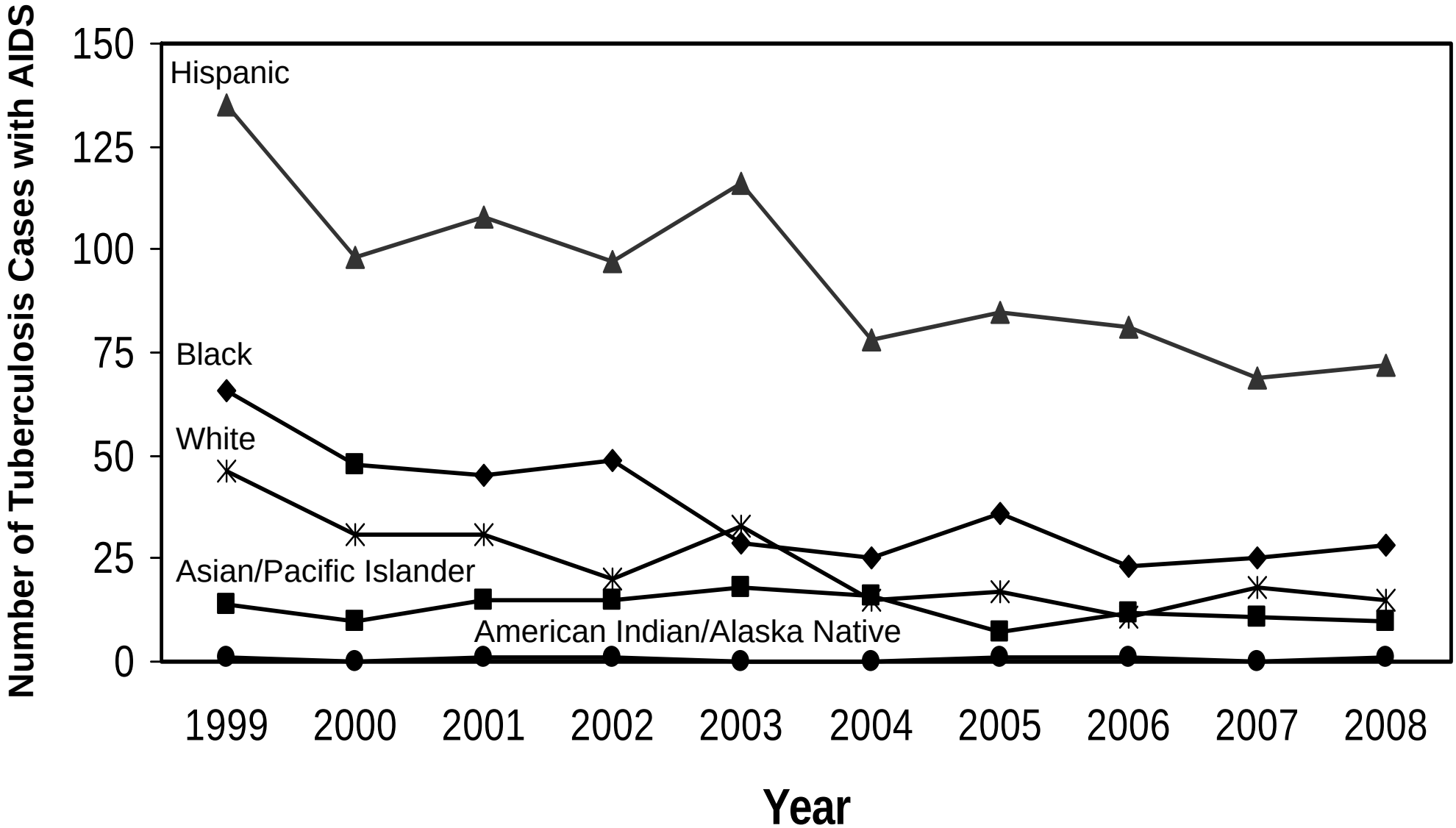
Figure 11. AIDS-associated Tuberculosis* by Race/Ethnicity: California, 1999-2008



* Match found in AIDS Case Registry, California Office of AIDS.

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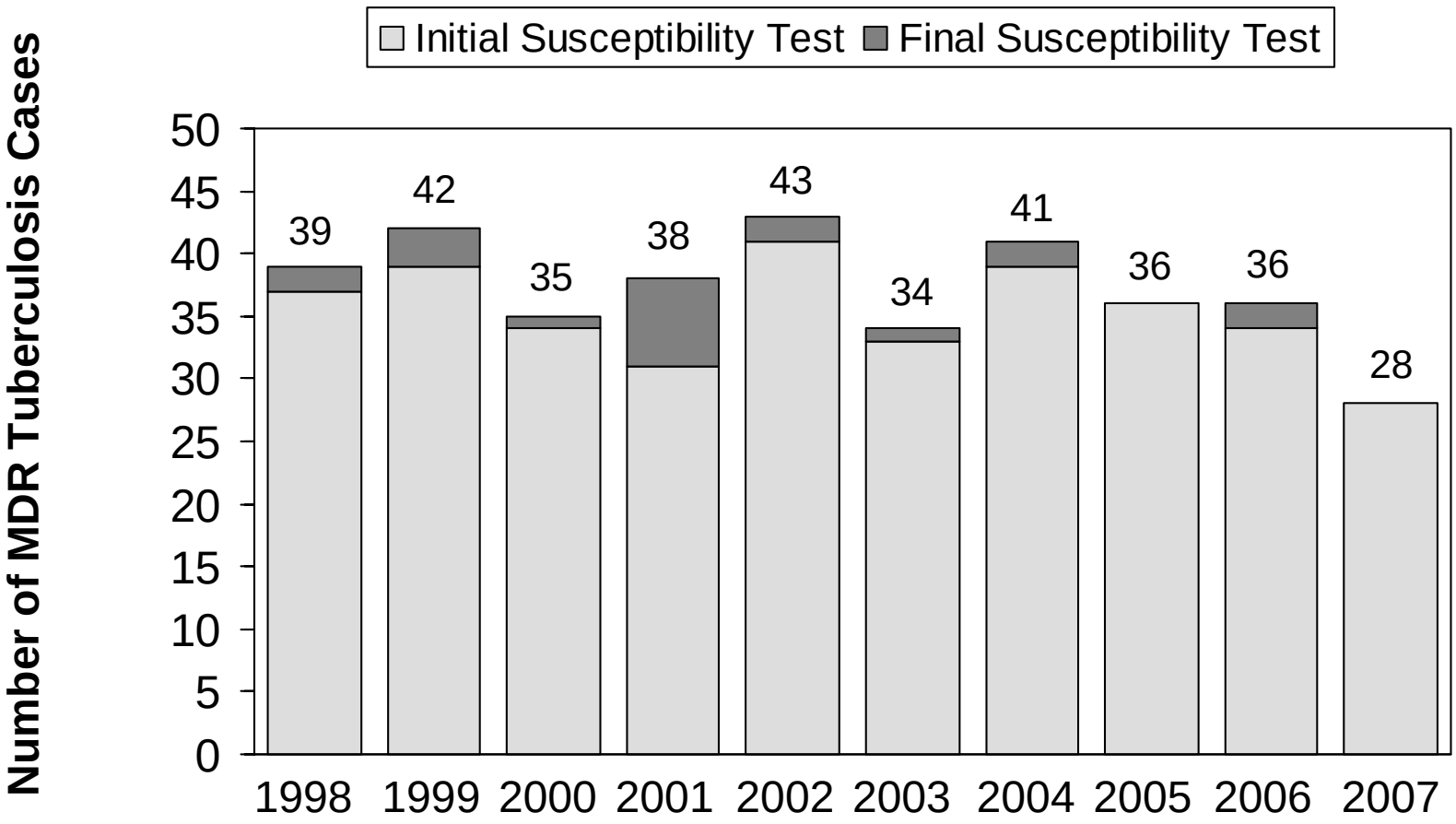
Figure 12. Tuberculosis Cases with Multidrug Resistance (MDR) on Initial or Final Drug Susceptibility Testing*: California, 1998-2007



*Cases with resistance to at least isoniazid, and either rifampin or rifabutin reported on the Initial Drug Susceptibility Report (Follow-up 1) or on the Case Completion Report (Follow-up 2). Follow-up 2 data not yet available for 2008-2009.

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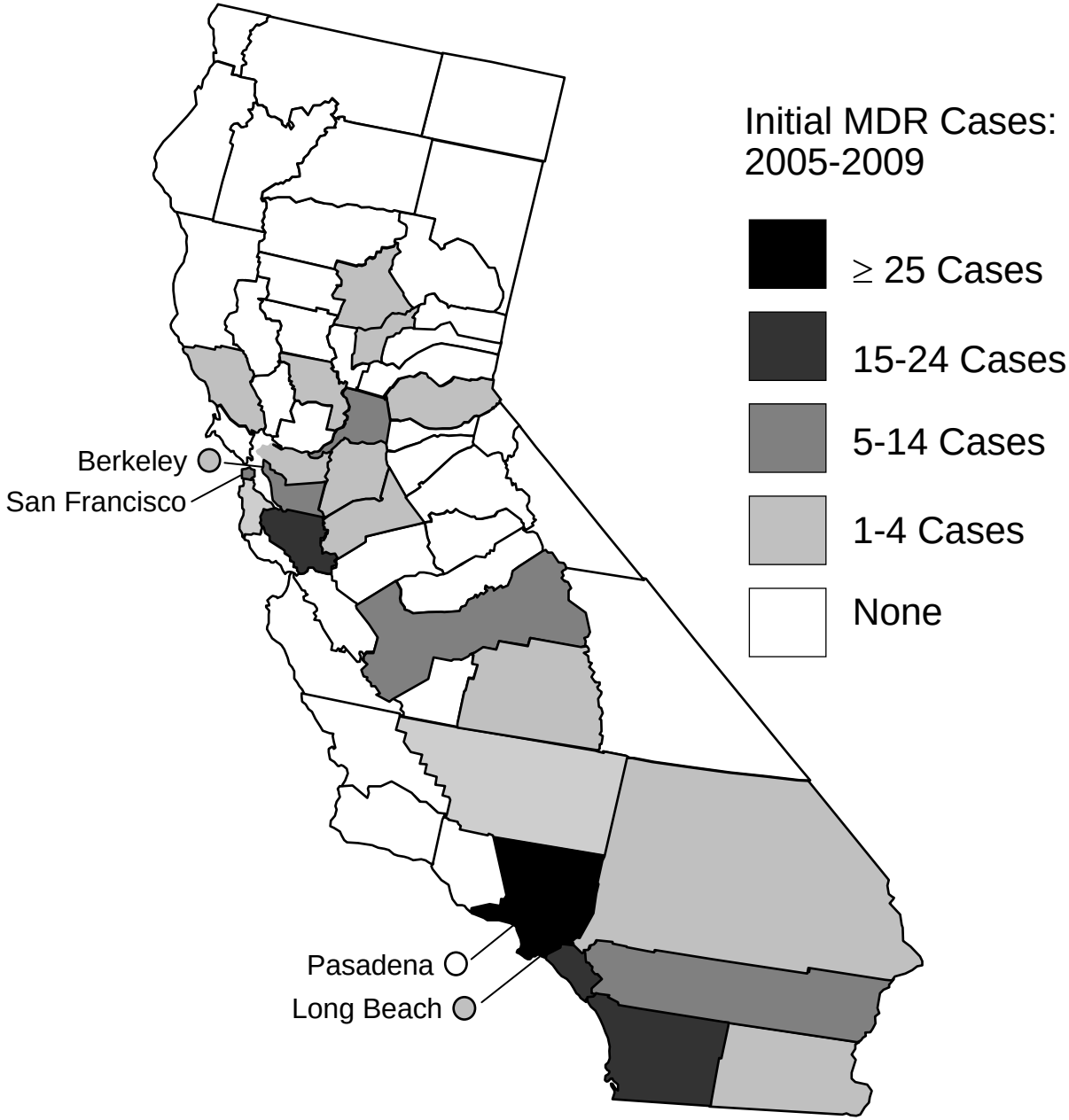
Figure 13. Tuberculosis Cases with Initial Multidrug Resistance (MDR)*: California, 2005-2009



*Cases with initial drug resistance to at least isoniazid, and either rifampin or rifabutin.

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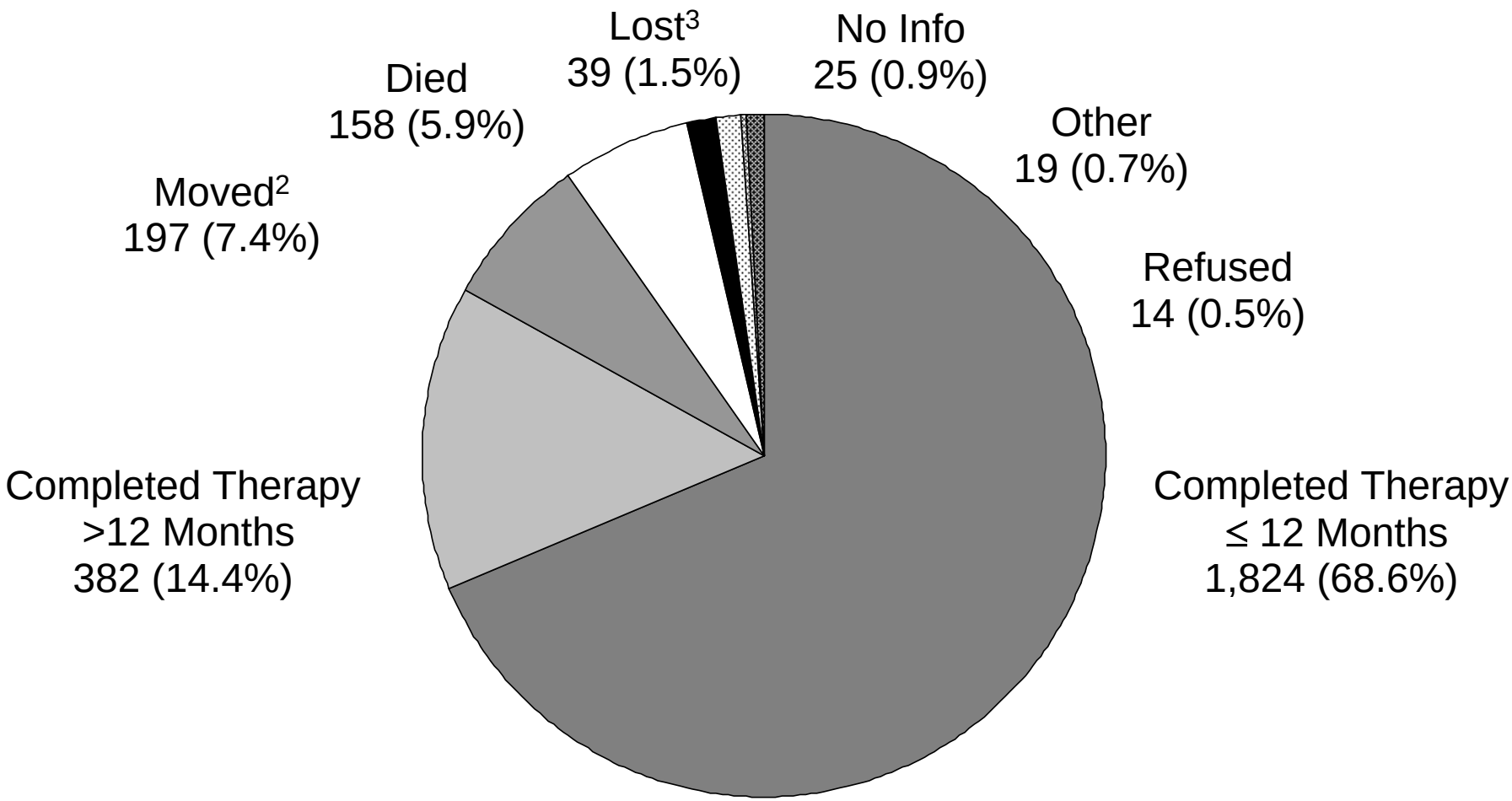
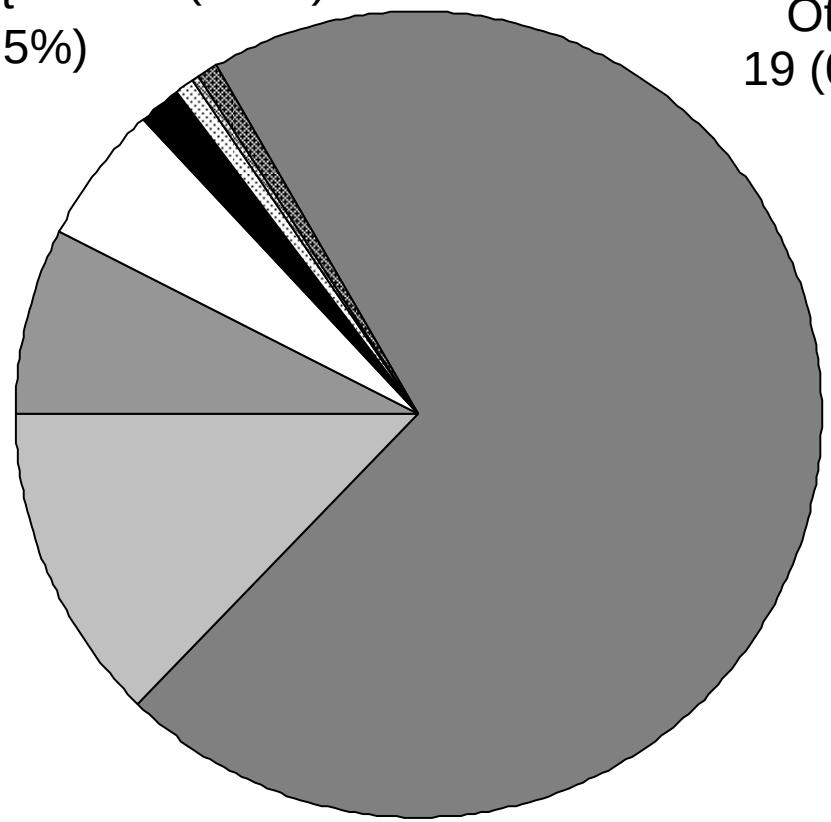
Figure 14. Tuberculosis Cases[1] by Outcome of Therapy: California, 2007



[1] Patient alive at diagnosis and started on an initial drug regimen of one or more drugs.
[2] Patient moved to another jurisdiction with a known forwarding address before treatment was completed.
[3] Patient could not be located prior to the completion of treatment.

California Department of Public Health, Tuberculosis Control Branch

Figure 15. Outcome in Tuberculosis Cases for Whom One Year or Less of Treatment was Indicated[1]: California, 2007



[1] Excludes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.

[2] Moved to another jurisdiction with a known forwarding address before treatment was completed.

[3] Patient could not be located prior to the completion of treatment.

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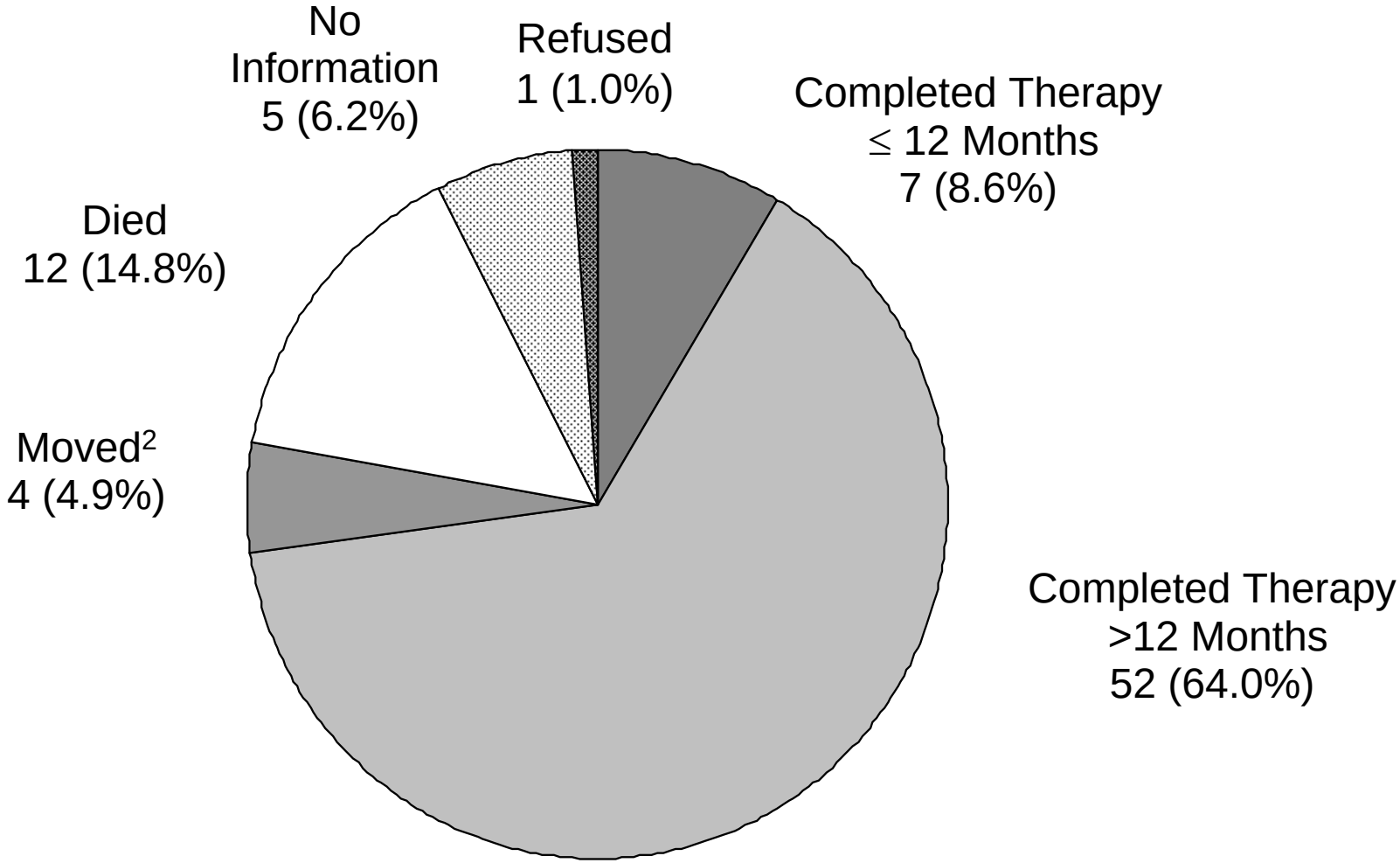
Figure 16. Outcome in Tuberculosis Cases for Whom Greater than One Year of Treatment was Indicated[1]: California, 2007



[1]Includes cases with rifampin resistant disease, cases with meningeal disease, and cases less than 15 years of age with disseminated tuberculosis disease.
[2] Patient moved to another jurisdiction with a known forwarding address before treatment was completed.
[3] Patient could not be located prior to the completion of treatment.

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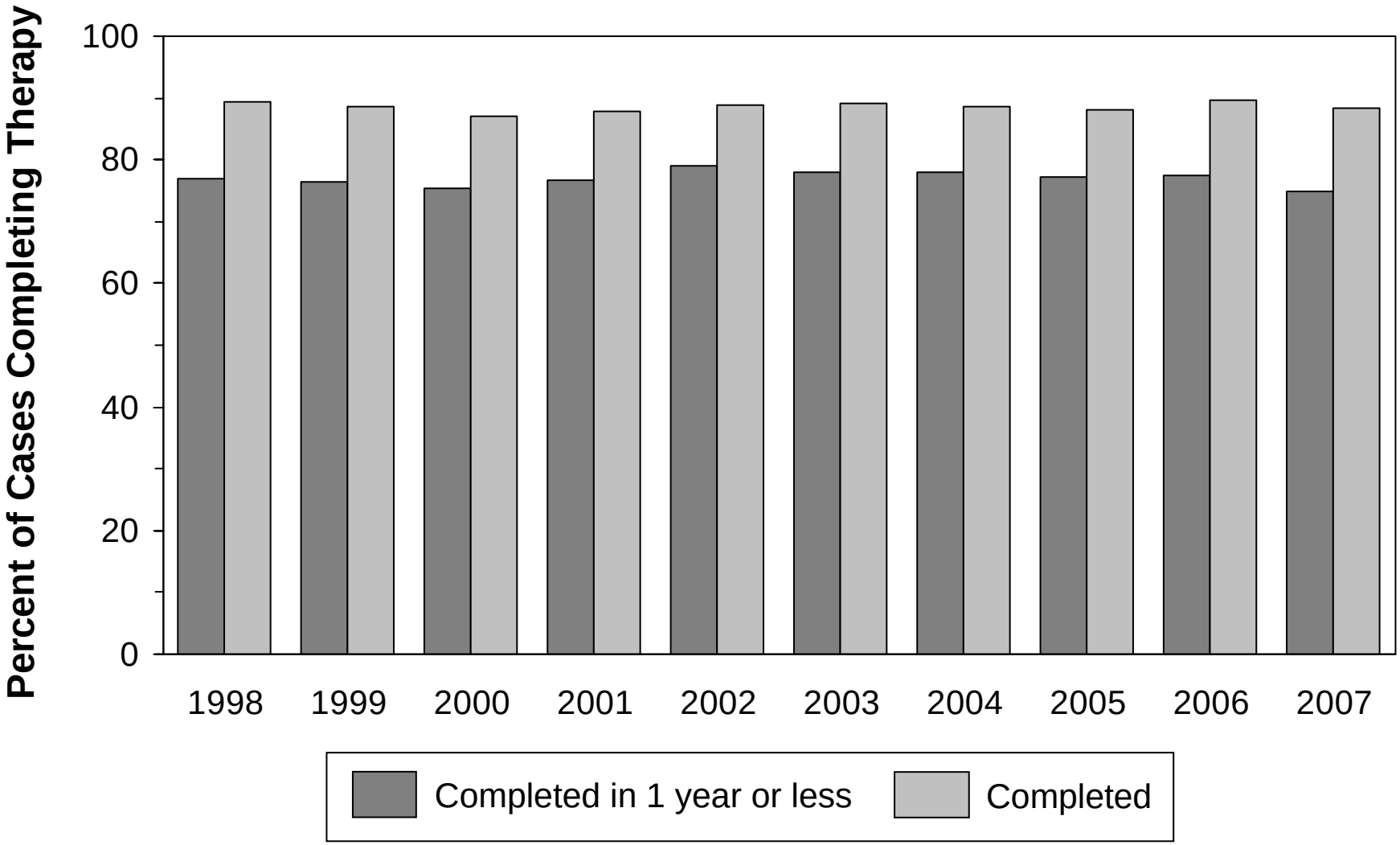
Figure 17. Completion of Tuberculosis Therapy: California,1998-2007



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.

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Technical Notes

Reporting Jurisdictions

California has 61 jurisdictions reporting on 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.

TB Cases

A TB case submitted to the TBCB Registry by January 15, 2010 was included in this report if the case was confirmed as active TB between January 1 and December 31, 2009. 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, although usually by a very small number of cases. For historical data in Tables 1–5 and 12–14, we used the original number of reported cases, not the revised number. For all other tables, the revised number of cases was used.

Population Data

State and county population totals, and data by age, sex, and race/ethnic group for California are from the following sources published by the State of California, Department of Finance: *Race/Ethnic Population with Age and Sex Detail*, *1970–1989,* December 1998; *Race/Ethnic Population with Age and Sex Detail, 1990–1999*, May 2009; and *Population Projections by Race/Ethnicity for California, 2000–2050*, May 2004.

Population data for 1985–2000 for the cities of Berkeley, Long Beach, and Pasadena are from the following sources: State of California, Department of Finance, *E–4 Population Estimates for California Cities and Counties, January 1, 1981, to January 1, 1990,* Sacramento, California, May 2005; State of California, Department of Finance, *E–4 Revised Historical City, County, and State Population Estimates, 1991–2000, with 1990 and 2000 Census Counts*, Sacramento, California, August 2007. City population data for 2001-2009 are from the annual series: State of California, Department of Finance, *E–1 Population Estimates for Cities, Counties, and the State with Annual Percentage Change,* Sacramento, California*.* For this report, the *p*opulation of Alameda County was calculated by subtracting the population of Berkeley; similarly, the population of Los Angeles County was were calculated by subtracting Long Beach and Pasadena.

Population data used to calculate rates of TB among foreign-born and U.S.-born persons are from the *Current Population Survey*, published annually by the California Department of Finance.

To calculate 2000–2009 TB rates for race/ethnic groups that are comparable to the race/ethnic categories prior to 2000, the multi-race category in the 2000–2009 population data was reallocated to a single race/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.

Small Case Numbers

While there are different methods for reporting the rates of rare events, 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 15–19, 29–36), 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 13 jurisdictions had one to four cases of TB in 2009: Berkeley, Butte, Calaveras, El Dorado, Humboldt, Kings, Mendocino, Pasadena, San Luis Obispo, Shasta, Sutter, Tehama, and Tuolumne counties. The following 18 jurisdictions had no TB cases in 2009: Alpine, Amador, Colusa, Del Norte, Glenn, Inyo, Lake, Lassen, Mariposa, Modoc, Mono, Nevada, Plumas, San Benito, Sierra, Siskiyou, Trinity, and Yuba counties.

Race/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) reporting mandates required 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. In 2009, 1,121 persons with TB in California were reported as Asian only (not Hispanic), and 13 persons were reported as Pacific Islander or Native Hawaiian only (not Hispanic). In tables where data on race/ethnicity are presented (except Table 17) these persons are combined in the Asian/Pacific Islander race/ethnic group, in order to provide comparability to previous years’ data. In 2009, there were seven non-Hispanic persons reporting more than one race category. Two persons reported as White

and Asian, and one person reported as Asian and Native Hawaiian/Pacific Islander are included in the Asian/Pacific Islander race/ethnicity group. One person reported as White and American Indian/Alaska Native, and one person reported as Native Hawaiian/Pacific Islander and American Indian/Alaska Native are included in the American Indian/Alaska Native race/ethnicity group. One person reported as White and Black, and one person reported as Asian and Black are included in the Black race/ethnicity group.

AIDS–associated TB

TB cases diagnosed and reported with HIV or AIDS are identified by matching TBCB Registry data with the HIV/AIDS registry in the California Department of Public Health, Office of AIDS. At the time of this report, the match results were not available for 2009.

Ranking of Jurisdictions

For Table 12, jurisdictions are ranked in order of decreasing 2009 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 they are listed in alphabetical order. Jurisdictions with the same rate are given the higher rank; the subsequent rank is skipped.

Case Completion Reports

Because the Case Completion Report (Follow-up 2) is not submitted until many months after a TB case is initially reported, 2007 data on health care provider type, DOT and treatment outcomes (Tables 27, 28, 47–51, Figures 14–17) are the most recent available and are reported here. The source of data for these tables and figures is the jurisdiction that originally reported the case. Thus, the data in these tables reflect the practices and outcomes of case management in the jurisdiction that counted the case. For example, if a patient moved from jurisdiction A to jurisdiction B and completed therapy in jurisdiction B, he is counted as a “moved” case in jurisdiction A; the subsequent completion of therapy is not included in our tables. Or, if a patient received DOT in jurisdiction A, but not in jurisdiction B, these tables reflect only that he received DOT in jurisdiction A.

Data for Figure 17 (Completion of Tuberculosis Therapy: California, 1998–2007) 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.

Drug Susceptibility Reports

Tables 37–44 present the results of initial drug susceptibility testing for the most recent year (2009). 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 97 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 45, 46, Figure 12).

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

Treatment Outcomes

Categories for completion of therapy (Tables 47–51, Figures 14–17) are: completed therapy in 12 months or less (includes patients whose treatment was completed in 365 days or less); 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” (question 37) variable of the Follow-up 2.

Table 48 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, 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 with disseminated disease) are presented in Table 49 and Figure 16.

Figure 17 presents completion of TB therapy using methodology identical to that used by 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.