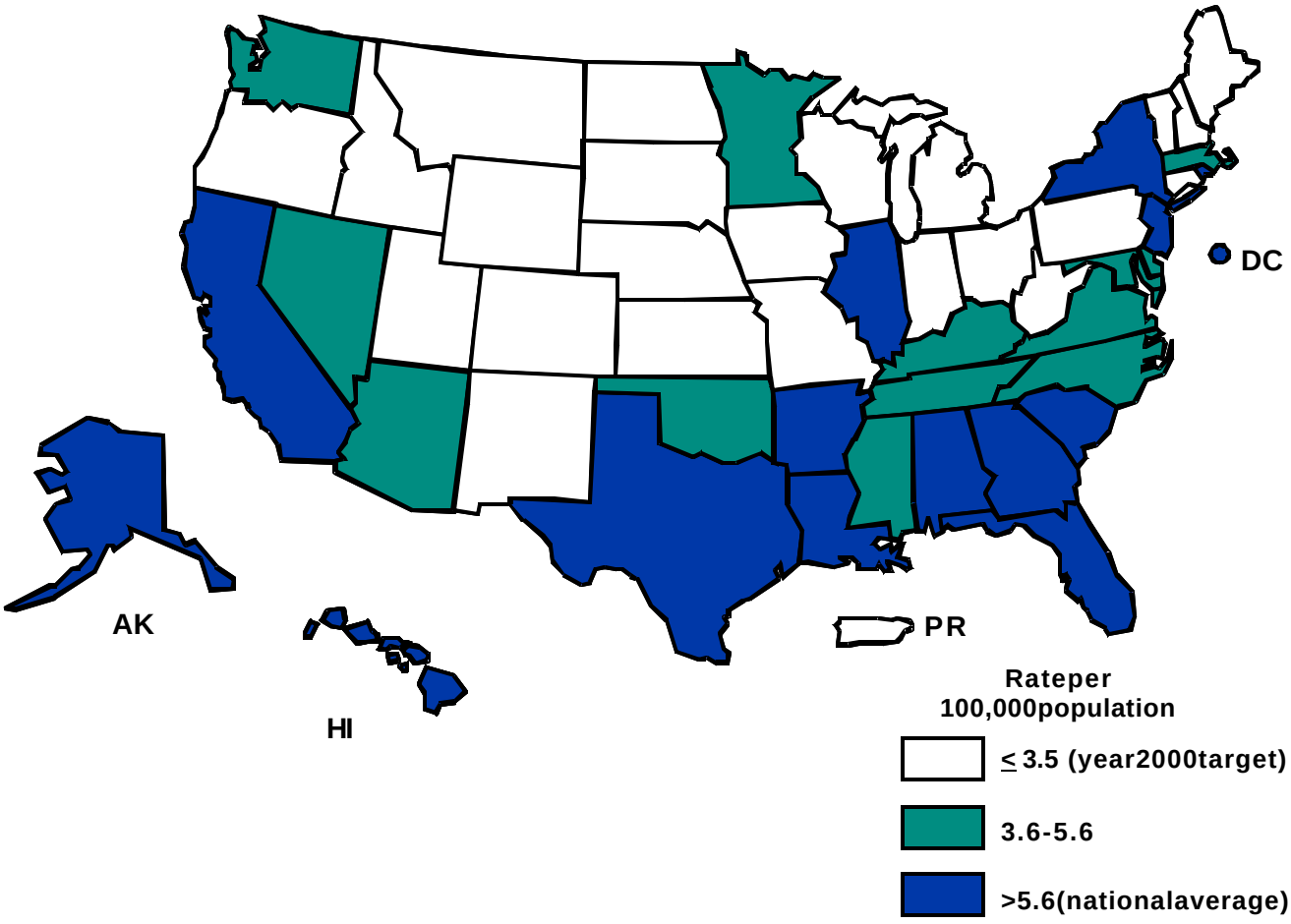
# REPORTED TUBERCULOSIS IN THE UNITED STATES, 2001

## Tuberculosis Case Rates: United States, 2001




U.S. DEPARTMENT O F HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control andPrevention
National CenterforHIV,STD,and TBPrevention
Division of TuberculosisElimination
Atlanta, Georgia 30333

## Introduction

Reports of tuberculosis (TB) cases are submitted to the Division of TB Elimination (DTBE), Centers for Disease Control and Prevention (CDC), by 60 reporting areas (the 50 states, the District of Columbia, New York City, Puerto Rico, and other jurisdictions in the Pacific and Caribbean). In January 1993, DTBE, in conjunction with state and local health departments, implemented an expanded TB surveillance system. The expanded system collects additional information for each reported TB case in order to better monitor trends in TB, including drug-resistant TB, in the United States. A software package (SURVS-TB) for data entry, analysis, and transmission of case reports to CDC was designed and implemented as part of the expanded TB surveillance system. In 1998, the Tuberculosis Information Management System (TIMS) replaced SURVS-TB to provide reporting areas with a comprehensive software system for surveillance, patient management, and program evaluation.

This publication, *Reported Tuberculosis in the United States, 2001,* presents summary data for TB cases reported to DTBE during 2001. It is similar to previous publications (page 5, #19) and contains six major sections. The first section presents trends in the overall TB case counts and case rates by selected demographic and clinical characteristics. The second section presents overall case counts and case rates for the United States by selected demographic characteristics for 2001. In the third section, TB case counts and case rates are presented by state with tables of selected demographic and clinical characteristics. In the fourth section, data collected as part of the expanded system (e.g., initial drug resistance, HIV status) are presented by reporting area. The fifth section provides TB case counts and case rates by metropolitan statistical areas (MSAs: see Technical Notes, Appendix A, for further details) with tables of selected demographic and clinical characteristics. Finally, the sixth section presents figures from the annual surveillance slide set, which emphasize key recent trends in TB epidemiology in the United States. The slides with accompanying text can also be viewed and downloaded from the Division Home Page which is accessible via the Internet: www.cdc.gov/nchstp/tb.

This year two new tables (Tables 5 and 16) and seven new figures (Figures 5, 8, 12, 15, 19, 20, and 22) have been added. To help interpret the data, an Executive Commentary (page 2) and Technical Notes (Appendix A) have been included. In addition, the current case definition (*MMWR* 1997;46 [No. RR-10]:40-1) and "Recommendations for Counting Reported Tuberculosis Cases" are provided in Appendices B and C, respectively. The recommendations for counting TB cases, which update the January 1977 recommendations, were first published in *Reported Tuberculosis in the United States, 1996*.

We will continue to adapt and improve this publication to better monitor trends in TB in the United States. Your comments and suggestions that may assist us in this process will be greatly appreciated.

**Executive Commentary**

Since 1953, when CDC began conducting public health surveillance for TB in the United States, the TB case rate has declined tenfold from 53 cases per 100,000 to 5.6 per 100,000 in 2001 (Table 1). During 2001, a total of 15,989 cases (5.6 cases per 100,000 population) of TB were reported to CDC from the 50 states and the District of Columbia (DC), representing a 2% decrease from 2000 and a 40% decrease from 1992 when the number of cases and case rate most recently peaked in the United States. However, the case rate among foreign-born persons is now at least eight times higher than among U.S.-born persons (Table 4). To address the high rate, CDC is collaborating with public health partners to implement TB control initiatives among recent international arrivals and residents along the border between the United States and Mexico and to strengthen TB programs in countries with a high incidence of TB disease (1).

The declining numbers of TB cases and TB case rates during the last decade varied by factors such as age, race/ethnicity, and country of origin. The largest declines occurred in children under 15 years of age (from 3.0 per 100,000 in 1991 to 1.5 in 2001) and in adults aged 25 to 44 years (from 12.5 to 6.6), 45 to 64 years (from 13.5 to 7.2), and 65 years and older (from 19.1 to 9.1), each group having decreased approximately 50%. The case rate declined by approximately 25% in those 15 to 24 years of age (from 5.4 to 4.0), and the rate has remained at 4 per 100,000 for the past 4 years (Table 2). Asians and Pacific Islanders had the highest TB case rates, which declined from 44 per 100,000 in 1991 to 33 in 2001. Non-Hispanic blacks had the most substantial decline from 32 in 1991 to 14 in 2001 (Table 3).

In 1991, 73% of reported cases were among U.S.-born persons (8.2 cases per 100,000) while 27% were in foreign-born persons (33.9 per 100,000). In comparison in 2001, there was an equal distribution (50%) in the number of TB cases among these two groups; the respective case rates were 3.1 per 100,000 for U.S.-born persons and 26.6 for foreign-born persons (Table 4). The number of states with $\geq$50% of their annual total of reported TB cases among foreign-born persons increased from four in 1991 to 23 in 2001. Of these 23 states, California, Hawaii, Massachusetts, Minnesota, New Hampshire, Vermont, and Washington had $\geq$70% of their annual total of cases among foreign-born persons (Table 20).

During 1997 through 2001, the top five countries of origin of TB cases among foreign- born persons were Mexico, the Philippines, Vietnam, India, and China (Table 5). However, expected cycles in immigration patterns have led to changes in the distribution of TB cases by global region of origin (as designated by the World Health Organization [WHO]) (2). In 2001, of the 7,865 cases of TB in foreign-born persons, 42% occurred among persons from the Americas (Central and South America or the Caribbean), and 31% were in persons from the Western Pacific. These regions also had the largest number of cases in 1991 (48% and 37%, respectively). During 1991 through 2001, the number of cases approximately doubled among persons from the Eastern Mediterranean (2% in 1991 and 5% in 2001) and among persons from Southeast Asia (5% in 1991 and 11% in 2001), while the number of cases among persons from Africa more than tripled (2% in 1991 and 7% in 2001) (Table 16).

Since 1993, when the case report was expanded to include drug susceptibility results, the proportion of patients with MDR TB decreased from 3% to 1% in 2001. However, of the total number of reported MDR TB cases, the proportion occurring in foreign-born persons increased from 31% (150 of 482) in 1993 to 73% (101 of 138) in 2001 (Tables 8 and 9). The proportion of TB patients placed on a recommended initial treatment regimen (i.e., isoniazid, rifampin, pyrazinamide, and streptomycin or ethambutol [3]), increased during 1993 through 2001 (Table 10). The proportions of patients who completed treatment within 1 year, and of persons who were treated with directly observed therapy (at least for a portion of treatment), also increased from 1993 through 1999, the

latest year with available outcome data (Table 10).

During 1991 through 2001, TB case rates in the United States decreased for U.S.-born and foreign-born persons; however, the decrease among foreign-born persons was less substantial. Decreases in the number and proportion of MDR TB cases also occurred. The overall improvement is consistent with the finding of an increasing proportion of patients receiving initial four drug regimens, completing treatment within 1 year, and being treated with directly observed therapy.

Despite the decreased case rate among foreign-born persons, half of the TB cases in the United States in 2001 occurred in this population, and the case rate was eight times greater in this population than among U.S.-born persons. To address the high rate, CDC is collaborating with other national and international public health organizations to 1) improve overseas screening of immigrants and refugees by developing systematic tools for monitoring and evaluating the screening process; 2) improve the current notification system that alerts local health departments about the arrival of immigrants or refugees with suspected TB to assist patients in obtaining a medical evaluation and, if necessary, in completing a course of recommended drugs; 3) improve coordination of and communication about TB control activities between the United States and Mexico to ensure completion of treatment among TB patients who cross the border; and 4) test recent arrivals from high-incidence countries for latent TB infection and ensure completion of treatment. In addition, CDC continues to strengthen collaborations with international partners, including the World Health Organization, to improve TB control in high-incidence countries.

Accelerating progress in national TB elimination activities, however, will require broader prevention efforts to evaluate and address unmet needs in other population risk groups such as persons living with HIV, and persons living in poverty with limited access to medical care and adequate housing and nutrition. In addition, low-incidence areas in the United States need continued support to ensure they maintain the capacity and expertise to respond to cases when they occur (4). CDC has recently updated its comprehensive national action plan to reflect the alignment of its priorities with the Institute of Medicine report (5) and to ensure that priority prevention activities are undertaken with optimal collaboration and coordination among national and international public health partners (6). Commitment and participation by CDC in efforts towards curtailing the global TB epidemic remains a critical component of the national plan.

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## Table 1. Tuberculosis Cases and Case Rates per 100,000 Population, Deaths and Death Rates per 100,000 Population: United States, 1953-2001

| | Tuberculosis Cases | | | | Tuberculosis Deaths | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Percent Change | | | | Percent Change | |
| Year | Number | Rate[1] | Number | Rate | Number | Rate[1] | Number | Rate |
| 1953 | 84,304 | 53.0 | - - | - - | 19,707 | 12.4 | - - | - - |
| 1954 | 79,775 | 49.3 | -5.4 | - 7.0 | 16,527 | 10.2 | -16.1 | -17.7 |
| 1955 | 77,368 | 46.9 | -3.0 | - 4.9 | 15,016 | 9.1 | - 9.1 | -10.8 |
| 1956 | 69,895 | 41.6 | -9.7 | -11.0 | 14,137 | 8.4 | - 5.9 | - 7.7 |
| 1957 | 67,149 | 39.2 | -3.9 | - 5.8 | 13,390 | 7.8 | - 5.3 | - 7.1 |
| 1958 | 63,534 | 36.5 | -5.4 | - 6.9 | 12,417 | 7.1 | - 7.3 | - 9.0 |
| 1959 | 57,535 | 32.5 | -9.4 | -11.0 | 11,474 | 6.5 | - 7.6 | - 8.5 |
| 1960 | 55,494 | 30.8 | -3.5 | - 5.2 | 10,866 | 6.0 | - 5.3 | - 7.7 |
| 1961 | 53,726 | 29.4 | -3.2 | - 4.5 | 9,938 | 5.4 | - 8.5 | -10.0 |
| 1962 | 53,315 | 28.7 | -0.8 | - 2.4 | 9,506 | 5.1 | - 4.3 | - 5.6 |
| 1963 | 54,042 | 28.7 | +1.4 | 0.0 | 9,311 | 4.9 | - 2.1 | - 3.9 |
| 1964 | 50,874 | 26.6 | -5.9 | - 7.3 | 8,303 | 4.3 | -10.8 | -12.2 |
| 1965 | 49,016 | 25.3 | -3.7 | - 4.9 | 7,934 | 4.1 | - 4.4 | - 4.7 |
| 1966 | 47,767 | 24.4 | -2.5 | - 3.6 | 7,625 | 3.9 | - 3.9 | - 4.9 |
| 1967 | 45,647 | 23.1 | -4.4 | - 5.3 | 6,901 | 3.5 | - 9.5 | -10.3 |
| 1968 | 42,623 | 21.3 | -6.6 | - 7.8 | 6,292 | 3.1 | - 8.8 | -11.4 |
| 1969 | 39,120 | 19.4 | -8.2 | - 8.9 | 5,567 | 2.8 | -11.5 | - 9.7 |
| 1970 | 37,137 | 18.3 | -5.1 | - 5.7 | 5,217 | 2.6 | - 6.3 | - 7.1 |
| 1971 | 35,217 | 17.1 | -5.2 | - 6.6 | 4,501 | 2.2 | -13.7 | -15.4 |
| 1972 | 32,882 | 15.8 | -6.6 | - 7.6 | 4,376 | 2.1 | - 2.8 | - 4.5 |
| 1973 | 30,998 | 14.8 | -5.7 | - 6.3 | 3,875 | 1.8 | -11.4 | -14.5 |
| 1974 | 30,122 | 14.2 | -2.8 | - 4.1 | 3,513 | 1.7 | - 9.3 | - 5.6 |
| 1975 | 33,989 | 15.9 | -- | -- | 3,333 | 1.6 | - 5.1 | - 5.9 |
| 1976 | 32,105 | 15.0 | -5.5 | - 5.7 | 3,130 | 1.5 | - 6.1 | - 6.3 |
| 1977 | 30,145 | 13.9 | -6.1 | - 7.3 | 2,968 | 1.4 | - 5.2 | - 6.7 |
| 1978 | 28,521 | 13.1 | -5.4 | - 5.8 | 2,914 | 1.3 | - 1.8 | - 7.1 |
| 1979 | 27,669 | 12.6 | -3.0 | - 3.8 | 2,007[2] | 0.9[2] | -31.1[2] | -30.8[2] |
| 1980 | 27,749 | 12.3 | +0.3 | - 2.4 | 1,978 | 0.9 | - 1.4 | 0.0 |
| 1981 | 27,373 | 11.9 | -1.4 | - 3.3 | 1,937 | 0.8 | - 2.1 | -11.1 |
| 1982 | 25,520 | 11.0 | -6.8 | -7.6 | 1,807 | 0.8 | - 6.7 | 0.0 |
| 1983 | 23,846 | 10.2 | -6.6 | - 7.3 | 1,779 | 0.8 | - 1.5 | 0.0 |
| 1984 | 22,255 | 9.4 | -6.7 | - 7.8 | 1,729 | 0.7 | - 2.8 | -12.5 |
| 1985 | 22,201 | 9.3 | -0.2 | - 1.1 | 1,752 | 0.7 | + 1.3 | 0.0 |
| 1986 | 22,768 | 9.4 | +2.6 | + 1.1 | 1,782 | 0.7 | + 1.7 | 0.0 |
| 1987 | 22,517 | 9.3 | -1.1 | - 1.1 | 1,755 | 0.7 | - 1.5 | 0.0 |
| 1988 | 22,436 | 9.1 | -0.4 | - 2.2 | 1,921 | 0.8 | + 9.5 | +14.3 |
| 1989 | 23,495 | 9.5 | +4.7 | + 4.4 | 1,970 | 0.8 | + 2.6 | 0.0 |
| 1990 | 25,701 | 10.3 | +9.4 | + 8.4 | 1,810 | 0.7 | - 8.1 | -12.5 |
| 1991 | 26,283 | 10.4 | +2.3 | + 1.0 | 1,713 | 0.7 | - 5.4 | 0.0 |
| 1992 | 26,673 | 10.5 | +1.5 | + 1.0 | 1,705 | 0.7 | - 0.5 | 0.0 |
| 1993 | 25,287 | 9.8 | -5.2 | - 6.7 | 1,631 | 0.6 | - 4.3 | -14.3 |
| 1994 | 24,361 | 9.4 | -3.7 | -4.1 | 1,478 | 0.6 | - 9.4 | 0.0 |
| 1995 | 22,860 | 8.7 | -6.2 | -7.4 | 1,336 | 0.5 | - 9.6 | -16.7 |
| 1996 | 21,337 | 8.0 | -6.7 | + 8.0 | 1,202 | 0.5 | -10.0 | 0.0 |
| 1997 | 19,851 | 7.4 | -7.0 | -7.5 | 1,166 | 0.4 | -3.0 | -20.0 |
| 1998 | 18,361 | 6.8 | -7.5 | -8.1 | 1,112 | 0.4 | -4.6 | 0.0 |
| 1999 | 17,531 | 6.4 | -4.5 | -5.9 | 930 | 0.3 | -16.4 | -25.0 |
| 2000 | 16,377 | 5.8 | -6.6 | -9.4 | 751[3] | 0.3[3] | -19.2[3] | 0.0[3] |
| 2001 | 15,989 | 5.6 | -2.4 | -3.4 | … | … | … | … |

[1]Per 100,000 population.

[2]The large decrease in 1979 occurred because late effects of tuberculosis (e.g., bronchiectasis or fibrosis) and pleurisy with effusion (without mention of cause) are no longer included in tuberculosis deaths.

[3] Preliminary data obtained from National Center for Health Statistics (NCHS) *National Vital Statistics Report,* Vol. 49, No.12, October 9, 2001.

Ellipses indicate data not available.

**Note:** Official tuberculosis mortality statistics are compiled by the National Center for Health Statistics, CDC. Case data after 1974 are not comparable to prior years due to changes in the surveillance case definitions which became effective in 1975. See Surveillance Slides #2 and #3.

## Table 2. Tuberculosis Cases and Case Rates per 100,000 Population by Age Group: United States, 1991-2001

| Year | Total Cases | 0 -14 | | | 15 - 24 | | | 25 - 44 | | | 45 - 64 | | | 65+ | | | Not Stated | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % |
| 1991 | 26,283 | 1,662 | 6 | 3.0 | 1,971 | 7 | 5.4 | 10,263 | 39 | 12.5 | 6,297 | 24 | 13.5 | 6,068 | 23 | 19.1 | 22 | 0 |
| 1992 | 26,673 | 1,707 | 6 | 3.1 | 1,974 | 7 | 5.5 | 10,444 | 39 | 12.7 | 6,487 | 24 | 13.4 | 6,025 | 23 | 18.7 | 36 | 0 |
| 1993 | 25,287 | 1,718 | 7 | 3.0 | 1,841 | 7 | 5.1 | 9,615 | 38 | 11.6 | 6,225 | 25 | 12.5 | 5,847 | 23 | 17.8 | 41 | 0 |
| 1994 | 24,361 | 1,695 | 7 | 3.0 | 1,825 | 7 | 5.1 | 9,106 | 37 | 11.0 | 6,141 | 25 | 12.1 | 5,546 | 23 | 16.7 | 48 | 0 |
| 1995 | 22,860 | 1,558 | 7 | 2.7 | 1,703 | 7 | 4.7 | 8,241 | 36 | 9.9 | 5,998 | 26 | 11.5 | 5,351 | 23 | 16.0 | 9 | 0 |
| 1996 | 21,337 | 1,372 | 6 | 2.4 | 1,656 | 8 | 4.6 | 7,604 | 36 | 9.1 | 5,588 | 26 | 10.4 | 5,103 | 24 | 15.1 | 14 | 0 |
| 1997 | 19,851 | 1,265 | 6 | 2.2 | 1,681 | 8 | 4.6 | 6,912 | 35 | 8.3 | 5,297 | 27 | 9.6 | 4,691 | 24 | 13.8 | 5 | 0 |
| 1998 | 18,361 | 1,082 | 6 | 1.9 | 1,548 | 8 | 4.2 | 6,365 | 35 | 7.6 | 4,973 | 27 | 8.7 | 4,393 | 24 | 12.8 | 0 | 0 |
| 1999 | 17,531 | 1,044 | 6 | 1.8 | 1,516 | 9 | 4.0 | 6,078 | 35 | 7.3 | 4,862 | 28 | 8.2 | 4,028 | 23 | 11.7 | 3 | 0 |
| 2000 | 16,377 | 969 | 6 | 1.6 | 1,623 | 10 | 4.1 | 5,588 | 34 | 6.6 | 4,661 | 28 | 7.5 | 3,534 | 22 | 10.1 | 2 | 0 |
| 2001 | 15,989 | 931 | 6 | 1.5 | 1,595 | 10 | 4.0 | 5,630 | 35 | 6.6 | 4,534 | 28 | 7.2 | 3,295 | 21 | 9.1 | 4 | 0 |

**Note:** Case rates for 2001 based on an extrapolation to the July 2001 population from the July 2000 U.S. Census estimates by age, race, sex, and Hispanic origin.
See Technical Notes (Appendix A).
See Surveillance Slides #5 and #6.

## Table 3. Tuberculosis Cases and Case Rates per 100,000 Population by Race/Ethnicity: United States, 1991-2001

| Year | Total Cases | White, non-Hispanic | | | Black, non-Hispanic | | | Hispanic[1] | | | American Indian/ Alaska Native | | | Asian/ Pacific Islander | | | Unknown or Missing | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % | Rate | No. | % |
| 1991 | 26,283 | 7,709 | 29 | 4.1 | 9,536 | 36 | 31.9 | 5,354 | 20 | 22.9 | 342 | 1 | 18.5 | 3,324 | 13 | 44.3 | 18 | 0 |
| 1992 | 26,673 | 7,618 | 29 | 4.0 | 9,623 | 36 | 31.7 | 5,437 | 20 | 22.4 | 299 | 1 | 16.2 | 3,649 | 14 | 46.3 | 47 | 0 |
| 1993 | 25,287 | 6,922 | 27 | 3.6 | 8,951 | 35 | 29.1 | 5,194 | 21 | 20.6 | 274 | 1 | 14.6 | 3,680 | 15 | 44.5 | 266 | 1 |
| 1994 | 24,361 | 6,494 | 27 | 3.4 | 8,345 | 34 | 26.8 | 5,074 | 21 | 19.5 | 332 | 1 | 17.4 | 3,821 | 16 | 45.3 | 295 | 1 |
| 1995 | 22,860 | 5,989 | 26 | 3.1 | 7,555 | 33 | 23.9 | 4,847 | 21 | 18.0 | 319 | 1 | 16.5 | 3,997 | 17 | 45.9 | 153 | 1 |
| 1996 | 21,337 | 5,506 | 26 | 2.8 | 7,106 | 33 | 22.3 | 4,533 | 21 | 16.0 | 284 | 1 | 14.5 | 3,814 | 18 | 41.6 | 94 | 0 |
| 1997 | 19,851 | 4,872 | 25 | 2.5 | 6,610 | 33 | 20.5 | 4,228 | 21 | 14.4 | 264 | 1 | 13.4 | 3,833 | 19 | 40.6 | 44 | 0 |
| 1998 | 18,361 | 4,495 | 24 | 2.3 | 5,831 | 32 | 17.8 | 4,099 | 22 | 13.6 | 253 | 1 | 12.6 | 3,623 | 20 | 36.6 | 60 | 0 |
| 1999 | 17,531 | 4,224 | 24 | 2.2 | 5,552 | 32 | 16.8 | 3,875 | 22 | 12.4 | 240 | 1 | 11.8 | 3,591 | 20 | 35.3 | 49 | 0 |
| 2000 | 16,377 | 3,674 | 22 | 1.9 | 5,161 | 32 | 15.2 | 3,805 | 23 | 10.8 | 236 | 1 | 11.4 | 3,451 | 21 | 32.9 | 50 | 0 |
| 2001 | 15,989 | 3,357 | 21 | 1.6 | 4,796 | 30 | 13.8 | 4,001 | 25 | 11.9 | 233 | 1 | 11.0 | 3,552 | 22 | 32.7 | 50 | 0 |

[1]Persons of Hispanic origin may be of any race.
**Note:** Case rates for 2001 based on an extrapolation to the July 2001 population from the July 2000 U.S. Census estimates by age, race, sex, and Hispanic origin.
See Technical Notes (Appendix A).
See Surveillance Slides #8 and #9.

## Table 4. Tuberculosis Cases and Case Rates per 100,000 Population by Origin: United States, 1991-2001

| Year | Total Cases | U.S.-born Persons | | | Foreign-born Persons[1] | | | Unknown | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | Rate | No. | % | Rate | No. | % |
| 1991 | 26,283 | 19,161 | 73 | 8.2 | 6,982 | 27 | 33.9 | 140 | 1 |
| 1992 | 26,673 | 19,225 | 72 | 8.2 | 7,270 | 27 | 34.2 | 178 | 1 |
| 1993 | 25,287 | 17,464 | 69 | 7.4 | 7,354 | 29 | 33.6 | 469 | 2 |
| 1994 | 24,361 | 16,278 | 67 | 6.8 | 7,627 | 31 | 33.9 | 456 | 2 |
| 1995 | 22,860 | 14,772 | 65 | 6.1 | 7,930 | 35 | 34.2 | 158 | 1 |
| 1996 | 21,337 | 13,333 | 62 | 5.5 | 7,704 | 36 | 32.3 | 300 | 1 |
| 1997 | 19,851 | 11,898 | 60 | 4.9 | 7,702 | 39 | 31.2 | 251 | 1 |
| 1998 | 18,361 | 10,675 | 58 | 4.3 | 7,591 | 41 | 30.0 | 95 | 1 |
| 1999 | 17,531 | 9,809 | 56 | 4.0 | 7,553 | 43 | 29.2 | 169 | 1 |
| 2000 | 16,377 | 8,714 | 53 | 3.5 | 7,554 | 46 | 25.8 | 109 | 1 |
| 2001 | 15,989 | 7,845 | 49 | 3.1 | 7,865 | 49 | 26.6 | 279 | 2 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

**Note:** Denominators for computing rates for years 1990-1999 were obtained from *Quarterly Estimates of the United States Foreign-born and Native Resident Populations: April 1, 1990, to July 1, 1999* (www.census.gov/population/estimates/nation/nativity/fbtab001.txt). Denominators for computing rates for 2000 and 2001 were based on an extrapolation from estimates in U.S. Census Bureau *Current Population Reports, P20-534, The Foreign-born Population in the United States: March 2000.*

See Surveillance Slides #11, #14, and #15.

## Table 5. Tuberculosis Cases Among Foreign-born Persons [1] by the Top 30 Countries of Origin: United States, 1997-2001

| Country of Origin | Year | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2001 | | 2000 | | 1999 | | 1998 | | 1997 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| **Total Cases** | **7,865** | **100** | **7,554** | **100** | **7,553** | **100** | **7,591** | **100** | **7,702** | **100** |
| Mexico | 1,845 | 23 | 1,773 | 23 | 1,753 | 23 | 1,757 | 23 | 1,685 | 22 |
| Philippines | 907 | 12 | 859 | 11 | 913 | 12 | 968 | 13 | 1,054 | 14 |
| Vietnam | 626 | 8 | 669 | 9 | 721 | 10 | 748 | 10 | 817 | 11 |
| India | 604 | 8 | 562 | 7 | 557 | 7 | 503 | 7 | 465 | 6 |
| China | 421 | 5 | 412 | 5 | 366 | 5 | 373 | 5 | 386 | 5 |
| Haiti | 252 | 3 | 297 | 4 | 284 | 4 | 299 | 4 | 284 | 4 |
| Korea, Rep. | 206 | 3 | 208 | 3 | 220 | 3 | 219 | 3 | 260 | 3 |
| Guatemala | 137 | 2 | 128 | 2 | 150 | 2 | 132 | 2 | 127 | 2 |
| Ecuador | 157 | 2 | 138 | 2 | 117 | 2 | 123 | 2 | 125 | 2 |
| Peru | 142 | 2 | 128 | 2 | 121 | 2 | 133 | 2 | 122 | 2 |
| Ethiopia | 161 | 2 | 136 | 2 | 130 | 2 | 109 | 1 | 108 | 1 |
| El Salvador | 154 | 2 | 118 | 2 | 103 | 1 | 129 | 2 | 135 | 2 |
| Somalia | 164 | 2 | 158 | 2 | 117 | 2 | 80 | 1 | 101 | 1 |
| Honduras | 133 | 2 | 129 | 2 | 126 | 2 | 125 | 2 | 85 | 1 |
| Dominican Republic | 84 | 1 | 96 | 1 | 105 | 1 | 145 | 2 | 138 | 2 |
| Cambodia | 83 | 1 | 101 | 1 | 104 | 1 | 98 | 1 | 120 | 2 |
| Lao, PDR | 101 | 1 | 83 | 1 | 97 | 1 | 112 | 1 | 110 | 1 |
| Pakistan | 87 | 1 | 94 | 1 | 92 | 1 | 79 | 1 | 91 | 1 |
| Cuba | 58 | 1 | 69 | 1 | 59 | 1 | 76 | 1 | 84 | 1 |
| Columbia | 69 | 1 | 62 | 1 | 54 | 1 | 49 | 1 | 64 | 1 |
| Kenya | 84 | 1 | 52 | 1 | 36 | 0 | 53 | 1 | 48 | 1 |
| Taiwan | 32 | 0 | 41 | 1 | 32 | 0 | 47 | 1 | 73 | 1 |
| Russian Federation | 47 | 1 | 51 | 1 | 61 | 1 | 51 | 1 | 52 | 1 |
| Indonesia | 53 | 1 | 44 | 1 | 64 | 1 | 29 | 0 | 29 | 0 |
| Thailand | 42 | 1 | 37 | 0 | 49 | 1 | 51 | 1 | 36 | 0 |
| Bosnia and Herzegovina | 49 | 1 | 35 | 0 | 49 | 1 | 43 | 1 | 38 | 0 |
| Nigeria | 53 | 1 | 35 | 0 | 43 | 1 | 32 | 0 | 39 | 1 |
| Jamaica | 26 | 0 | 29 | 0 | 36 | 0 | 45 | 1 | 45 | 1 |
| China, Hong Kong SAR | 28 | 0 | 37 | 0 | 33 | 0 | 36 | 0 | 37 | 0 |
| Poland | 28 | 0 | 35 | 0 | 37 | 0 | 32 | 0 | 34 | 0 |
| All Others | 1,032 | 13 | 938 | 12 | 924 | 12 | 915 | 12 | 910 | 12 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

**Note:** The top 30 countries were selected based on the 5-year average number of cases.

Zero (0) denotes <1%.

## Table 6. Tuberculosis Cases by Case Verification Criterion and by Site of Disease: United States, 1991-2001

| Year | Total Cases | Verification Criterion[1] | | | | | | | | Site of Disease | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Positive Culture | | Positive Smear | | Clinical Case Definition | | Provider Diagnosis | | Pulmonary[2] | | Extrapulmonary | |
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| 1991 | 26,283 | 21,417 | 81 | 388 | 1 | 2,992 | 11 | 1,486 | 6 | 21,937 | 83 | 4,327 | 16 |
| 1992 | 26,673 | 21,398 | 80 | 407 | 2 | 3,141 | 12 | 1,727 | 6 | 22,371 | 84 | 4,288 | 16 |
| 1993 | 25,287 | 20,081 | 79 | 309 | 1 | 2,994 | 12 | 1,903 | 8 | 21,255 | 84 | 3,995 | 16 |
| 1994 | 24,361 | 19,537 | 80 | 236 | 1 | 2,794 | 11 | 1,794 | 7 | 20,385 | 84 | 3,964 | 16 |
| 1995 | 22,860 | 18,292 | 80 | 220 | 1 | 2,664 | 12 | 1,684 | 7 | 18,991 | 83 | 3,860 | 17 |
| 1996 | 21,337 | 17,234 | 81 | 150 | 1 | 2,556 | 12 | 1,397 | 7 | 17,445 | 82 | 3,870 | 18 |
| 1997 | 19,851 | 16,015 | 81 | 177 | 1 | 2,355 | 12 | 1,304 | 7 | 16,285 | 82 | 3,554 | 18 |
| 1998 | 18,361 | 14,830 | 81 | 166 | 1 | 2,207 | 12 | 1,158 | 6 | 14,813 | 81 | 3,541 | 19 |
| 1999 | 17,531 | 13,997 | 80 | 176 | 1 | 2,058 | 12 | 1,300 | 7 | 14,083 | 80 | 3,438 | 20 |
| 2000 | 16,377 | 13,035 | 80 | 169 | 1 | 1,901 | 12 | 1,272 | 8 | 13,142 | 80 | 3,220 | 20 |
| 2001 | 15,989 | 12,780 | 80 | 131 | 1 | 1,843 | 12 | 1,235 | 8 | 12,768 | 80 | 3,212 | 20 |

[1]Based on the public health surveillance case definition for tuberculosis: CDC. Case definitions for infectious conditions under public health surveillance. *MMWR* 1997:46(No. RR-10):40-41. See Appendix B.

[2]Includes cases of both pulmonary and extrapulmonary disease and cases of miliary TB.

Note: See Technical Notes (Appendix A) for a description of national TB surveillance.

## Table 7. Pulmonary Tuberculosis Cases by Sputum Smear and Sputum Culture Results: United States, 1991-2001

| Year | Total Pulmonary Cases[1] | Sputum Smear Results | | | | | | Sputum Culture Results | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Positive | | Negative | | Not Done or Unknown | | Positive | | Negative | | Not Done or Unknown | |
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| 1991 | 21,937 | 9,095 | 41 | 7,281 | 33 | 5,561 | 25 | 15,022 | 68 | 2,232 | 10 | 4,683 | 21 |
| 1992 | 22,371 | 8,975 | 40 | 7,413 | 33 | 5,983 | 27 | 15,124 | 68 | 2,476 | 11 | 4,771 | 21 |
| 1993 | 21,255 | 9,324 | 44 | 7,747 | 36 | 4,184 | 20 | 14,708 | 69 | 2,675 | 13 | 3,872 | 18 |
| 1994 | 20,385 | 8,845 | 43 | 7,770 | 38 | 3,770 | 18 | 14,080 | 69 | 2,618 | 13 | 3,687 | 18 |
| 1995 | 18,991 | 8,068 | 42 | 7,717 | 41 | 3,206 | 17 | 13,236 | 70 | 2,597 | 14 | 3,158 | 17 |
| 1996 | 17,445 | 7,449 | 43 | 7,337 | 42 | 2,659 | 15 | 12,232 | 70 | 2,507 | 14 | 2,706 | 16 |
| 1997 | 16,285 | 6,882 | 42 | 6,878 | 42 | 2,525 | 16 | 11,481 | 71 | 2,226 | 14 | 2,578 | 16 |
| 1998 | 14,813 | 6,630 | 45 | 6,016 | 41 | 2,167 | 15 | 10,472 | 71 | 2,101 | 14 | 2,240 | 15 |
| 1999 | 14,083 | 6,252 | 44 | 5,626 | 40 | 2,205 | 16 | 9,777 | 69 | 2,049 | 15 | 2,257 | 16 |
| 2000 | 13,142 | 5,865 | 45 | 5,332 | 41 | 1,945 | 15 | 9,214 | 70 | 1,912 | 15 | 2,016 | 15 |
| 2001 | 12,768 | 5,600 | 44 | 5,311 | 42 | 1,857 | 15 | 8,855 | 69 | 1,937 | 15 | 1,976 | 15 |

[1]Includes cases of both pulmonary and extrapulmonary disease and cases of miliary TB.

## Table 8. Resistance to Isoniazid with or without Rifampin Resistance in Reported TB Cases with No Previous TB by Origin: United States, 1993-2001

| | Resistant to Isoniazid[1] | | | | | | Resistant to Isoniazid and Rifampin[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Cases[2] | | U. S.-born | | Foreign-born[3] | | Total Cases[2] | | U. S.-born | | Foreign-born[3] | |
| Year | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| 1993 | 1,401 | 8.4 | 805 | 6.8 | 579 | 12.4 | 410 | 2.5 | 302 | 2.6 | 105 | 2.3 |
| 1994 | 1,355 | 8.3 | 709 | 6.4 | 632 | 12.1 | 352 | 2.2 | 238 | 2.2 | 109 | 2.1 |
| 1995 | 1,171 | 7.3 | 554 | 5.4 | 616 | 11.0 | 252 | 1.6 | 168 | 1.6 | 84 | 1.5 |
| 1996 | 1,137 | 7.4 | 495 | 5.2 | 639 | 11.3 | 206 | 1.3 | 104 | 1.1 | 101 | 1.8 |
| 1997 | 1,080 | 7.5 | 436 | 5.0 | 639 | 11.2 | 155 | 1.1 | 76 | 0.9 | 79 | 1.4 |
| 1998 | 1,011 | 7.5 | 366 | 4.7 | 643 | 11.3 | 130 | 1.0 | 55 | 0.7 | 74 | 1.3 |
| 1999 | 904 | 7.1 | 284 | 4.0 | 618 | 11.0 | 128 | 1.0 | 39 | 0.6 | 89 | 1.6 |
| 2000 | 881 | 7.5 | 267 | 4.3 | 611 | 11.0 | 118 | 1.0 | 37 | 0.6 | 81 | 1.5 |
| 2001 | 781 | 7.1 | 238 | 4.5 | 532 | 9.6 | 114 | 1.0 | 32 | 0.6 | 78 | 1.4 |

[1]Isolates may be resistant to other drugs.

[2]Includes persons of unknown country of birth.

[3]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

**Note:** Data for all years updated through April 10, 2002.

More than 85% of all cases in each group had drug susceptibility test results reported for an initial isolate.

See Surveillance Slides #18, #19, #20, and #21.

## Table 9. Resistance to Isoniazid with or without Rifampin Resistance in Reported TB Cases with Previous TB by Origin: United States, 1993-2001

| | Resistant to Isoniazid[1] | | | | | | Resistant to Isoniazid and Rifampin[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Cases[2] | | U. S.-born | | Foreign-born[3] | | Total Cases[2] | | U. S.-born | | Foreign-born[3] | |
| Year | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| 1993 | 164 | 16.6 | 85 | 12.7 | 76 | 25.1 | 75 | 7.7 | 30 | 4.5 | 45 | 15.0 |
| 1994 | 177 | 17.1 | 81 | 11.7 | 95 | 28.1 | 75 | 7.3 | 35 | 5.1 | 39 | 11.6 |
| 1995 | 168 | 17.6 | 77 | 13.0 | 91 | 25.1 | 70 | 7.3 | 28 | 4.7 | 42 | 11.6 |
| 1996 | 142 | 16.5 | 67 | 12.0 | 74 | 24.4 | 43 | 5.0 | 20 | 3.6 | 22 | 7.3 |
| 1997 | 109 | 14.7 | 35 | 7.7 | 74 | 25.9 | 44 | 5.9 | 12 | 2.6 | 32 | 11.2 |
| 1998 | 98 | 13.0 | 38 | 7.8 | 60 | 22.8 | 23 | 3.1 | 6 | 1.2 | 17 | 6.5 |
| 1999 | 82 | 12.2 | 25 | 6.5 | 55 | 19.4 | 28 | 4.2 | 6 | 1.6 | 22 | 7.8 |
| 2000 | 81 | 12.9 | 22 | 6.1 | 59 | 22.1 | 23 | 3.7 | 2 | 0.6 | 21 | 7.9 |
| 2001 | 78 | 13.0 | 23 | 7.4 | 55 | 19.3 | 28 | 4.7 | 5 | 1.6 | 23 | 8.1 |

[1]Isolates may be resistant to other drugs.

[2]Includes persons of unknown country of birth.

[3]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

**Note:** Data for all years updated through April 10, 2002.

More than 85% of all cases in each group had drug susceptibility test results reported for an initial isolate.

## Table 10. Percentage of Reported TB Cases by Initial Drug Regimen, Use of Directly Observed Therapy, and Completion of Therapy (COT): United States, 1993-2001

| | Initial Drug Regimen[1,2] | | | Directly Observed Therapy[3] | | Therapy ≤1 Year Indicated[4] | |
|---|---|---|---|---|---|---|---|
| Year | IR | IRZ | IRZ,E/S | DOT Only | Both DOT and Self-Administered | COT ≤1 Year | COT |
| 1993 | 13.0 | 31.2 | 40.9 | 21.7 | 14.4 | 63.6 | 87.5 |
| 1994 | 7.0 | 23.3 | 56.3 | 28.1 | 20.5 | 68.5 | 87.9 |
| 1995 | 5.2 | 20.3 | 63.3 | 37.2 | 21.5 | 72.9 | 89.6 |
| 1996 | 4.2 | 17.5 | 67.9 | 42.5 | 22.4 | 75.6 | 90.3 |
| 1997 | 3.2 | 15.1 | 72.4 | 46.9 | 23.8 | 77.7 | 91.2 |
| 1998 | 2.6 | 12.9 | 74.7 | 47.7 | 26.5 | 80.2 | 92.4 |
| 1999 | 2.2 | 11.2 | 77.2 | 49.5 | 27.5 | 79.9 | 92.0 |
| 2000 | 2.0 | 10.4 | 78.6 | … | … | … | … |
| 2001 | 1.6 | 9.4 | 78.8 | … | … | … | … |

[1]Includes cases in persons alive at diagnosis.

[2]I=isoniazid; R=rifampin; Z=pyrazinamide; E=ethambutol; S=streptomycin. Excluding cases with no information on initial drug regimen, 1% were not started on any drugs, less than 1% were started on one drug, and approximately 10% had an initial multidrug regimen other than IR, IRZ, or IRZ,E/S.

[3]Includes cases in persons alive at diagnosis with initial drug regimen of one or more drugs prescribed.

[4]Includes cases in persons alive at diagnosis, with initial drug regimen of one or more drugs prescribed, who did not die during therapy. Excludes persons with initial isolate resistant to rifampin and pediatric (aged <15) cases with meningeal, bone or joint, or miliary disease. See Technical Notes (Appendix A) for description of COT calculation.

Ellipses indicate data not available.

**Note:** Data for all years updated through April 10, 2002.

See Surveillance Slides #24 and #25.

## Table 11. Number and Percentage of Reported TB Cases with HIV Test Results and with HIV Coinfection by Age Group: United States, 1993-2000

| | 25-44 Years Old | | | | All Ages | | | |
|---|---|---|---|---|---|---|---|---|
| | HIV Test Results[1] | | HIV Positive[2] | | HIV Test Results[1] | | HIV Positive[2] | |
| Year | No. | % | No. | % | No. | % | No. | % |
| 1993 | 4,376 | 46 | 2,787 | 29 | 7,456 | 30 | 3,680 | 15 |
| 1994 | 4,439 | 49 | 2,664 | 29 | 7,878 | 33 | 3,595 | 15 |
| 1995 | 4,271 | 52 | 2,170 | 26 | 8,174 | 36 | 3,036 | 13 |
| 1996 | 4,347 | 57 | 1,856 | 25 | 8,799 | 41 | 2,615 | 12 |
| 1997 | 4,137 | 60 | 1,472 | 21 | 8,759 | 44 | 2,091 | 11 |
| 1998 | 3,857 | 61 | 1,239 | 20 | 8,277 | 45 | 1,831 | 10 |
| 1999 | 3,808 | 63 | 1,176 | 19 | 8,408 | 48 | 1,726 | 10 |
| 2000 | 3,498 | 63 | 952 | 17 | 8,042 | 49 | 1,457 | 9 |

[1]Includes cases with positive, negative, or indeterminate HIV test results and cases from California also reported with AIDS. Rhode Island reported HIV test results in 1998, 1999, and 2000. HIV test results were not reported from California. However, California provided HIV status for TB cases reported during 1993-2000 in persons with AIDS (i.e., HIV-positive). Percentages based on all reported TB cases.

[2]Includes cases with HIV-positive test results and California cases also reported with AIDS. Percentages based on all reported TB cases.

**Note:** Data for all years updated through April 10, 2002.

See Surveillance Slides #22 and #23.

## Table 12. Tuberculosis Cases by Race/Ethnicity, Sex, and Age: United States, 2001

| | | Age Group | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Race/Ethnicity and Sex | All Ages | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | Not Stated |
| **Total Cases** | **15,989** | **544** | **387** | **1,595** | **5,630** | **4,534** | **3,295** | **4** |
| White, non-Hispanic | 3,357 | 61 | 28 | 125 | 817 | 1,109 | 1,216 | 1 |
| Male | 2,213 | 34 | 13 | 64 | 541 | 825 | 735 | 1 |
| Female | 1,144 | 27 | 15 | 61 | 276 | 284 | 481 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Black, non-Hispanic | 4,796 | 167 | 147 | 469 | 1,863 | 1,446 | 704 | 0 |
| Male | 3,022 | 83 | 81 | 236 | 1,134 | 1,072 | 416 | 0 |
| Female | 1,774 | 84 | 66 | 233 | 729 | 374 | 288 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hispanic[1] | 4,001 | 255 | 151 | 608 | 1,553 | 901 | 531 | 2 |
| Male | 2,580 | 135 | 82 | 386 | 1,042 | 635 | 298 | 2 |
| Female | 1,421 | 120 | 69 | 222 | 511 | 266 | 233 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| American Indian/Alaska Native | 233 | 4 | 4 | 13 | 68 | 78 | 66 | 0 |
| Male | 132 | 4 | 2 | 7 | 40 | 50 | 29 | 0 |
| Female | 101 | 0 | 2 | 6 | 28 | 28 | 37 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian/Pacific Islander | 3,552 | 57 | 57 | 373 | 1,315 | 987 | 762 | 1 |
| Male | 1,972 | 29 | 14 | 185 | 698 | 596 | 450 | 0 |
| Female | 1,580 | 28 | 43 | 188 | 617 | 391 | 312 | 1 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Not Stated | 50 | 0 | 0 | 7 | 14 | 13 | 16 | 0 |
| Male | 24 | 0 | 0 | 4 | 5 | 8 | 7 | 0 |
| Female | 25 | 0 | 0 | 3 | 9 | 4 | 9 | 0 |
| Unknown | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |

[1]Persons of Hispanic origin may be of any race.

See Surveillance Slides #6 and #9.

## Table 13. Tuberculosis Case Rates per 100,000 Population by Race/Ethnicity, Sex, and Age: United States, 2001

| | | Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| Race/Ethnicity and Sex | All Ages | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ |
| **Total Cases** | **5.6** | **2.8** | **0.9** | **4.0** | **6.6** | **7.2** | **9.1** |
| White, non-Hispanic | 1.6 | 0.5 | 0.1 | 0.5 | 1.4 | 2.3 | 4.0 |
| Male | 2.2 | 0.5 | 0.1 | 0.5 | 1.8 | 3.4 | 5.8 |
| Female | 1.1 | 0.5 | 0.1 | 0.5 | 0.9 | 1.1 | 2.7 |
| Black, non-Hispanic | 13.8 | 6.2 | 2.4 | 8.2 | 17.4 | 22.3 | 24.1 |
| Male | 18.4 | 6.1 | 2.6 | 8.2 | 22.5 | 37.2 | 36.2 |
| Female | 9.7 | 6.3 | 2.2 | 8.2 | 12.8 | 10.4 | 16.3 |
| Hispanic[1] | 11.9 | 7.0 | 2.3 | 10.4 | 14.6 | 17.9 | 26.4 |
| Male | 15.3 | 7.2 | 2.5 | 12.8 | 19.2 | 26.3 | 35.2 |
| Female | 8.5 | 6.7 | 2.2 | 7.9 | 9.9 | 10.2 | 20.1 |
| American Indian/Alaska Native | 11.0 | 2.3 | 1.0 | 3.4 | 10.7 | 20.5 | 42.0 |
| Male | 12.7 | 4.6 | 1.0 | 3.7 | 12.6 | 27.6 | 43.6 |
| Female | 9.4 | 0.0 | 1.0 | 3.2 | 8.8 | 14.0 | 40.7 |
| Asian/Pacific Islander | 32.7 | 6.5 | 3.4 | 23.7 | 35.8 | 44.3 | 91.2 |
| Male | 37.9 | 6.5 | 1.6 | 23.6 | 40.6 | 57.4 | 127.9 |
| Female | 27.9 | 6.4 | 5.3 | 23.9 | 31.5 | 32.9 | 64.5 |

[1]Persons of Hispanic origin may be of any race.

**Note**: Case rates for 2001 based on an extrapolation to the July 2001 population from the July 2000 U.S. Census estimates by age, race, sex, and Hispanic origin.

See Surveillance Slides #5, #7, #8, and #10.

## Table 14. Tuberculosis Cases in U.S.-born Persons by Race/Ethnicity, Sex, and Age: United States, 2001

| Race/Ethnicity and Sex | All Ages | Age Group | | | | | | Not Stated |
|---|---|---|---|---|---|---|---|---|
| | | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | |
| **Total Cases** | **7,845** | **448** | **211** | **420** | **2,194** | **2,618** | **1,953** | **1** |
| White, non-Hispanic | 2,789 | 49 | 21 | 60 | 626 | 978 | 1,054 | 1 |
| Male | 1,886 | 28 | 11 | 32 | 422 | 748 | 644 | 1 |
| Female | 903 | 21 | 10 | 28 | 204 | 230 | 410 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Black, non-Hispanic | 3,624 | 148 | 93 | 208 | 1,251 | 1,269 | 655 | 0 |
| Male | 2,342 | 70 | 47 | 104 | 777 | 955 | 389 | 0 |
| Female | 1,282 | 78 | 46 | 104 | 474 | 314 | 266 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hispanic[1] | 1,027 | 211 | 71 | 109 | 223 | 261 | 152 | 0 |
| Male | 648 | 115 | 42 | 61 | 158 | 188 | 84 | 0 |
| Female | 379 | 96 | 29 | 48 | 65 | 73 | 68 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| American Indian/Alaska Native | 212 | 4 | 4 | 12 | 57 | 72 | 63 | 0 |
| Male | 122 | 4 | 2 | 6 | 33 | 48 | 29 | 0 |
| Female | 90 | 0 | 2 | 6 | 24 | 24 | 34 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian/Pacific Islander | 175 | 36 | 22 | 28 | 33 | 34 | 22 | 0 |
| Male | 95 | 18 | 6 | 14 | 20 | 25 | 12 | 0 |
| Female | 80 | 18 | 16 | 14 | 13 | 9 | 10 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Not Stated | 18 | 0 | 0 | 3 | 4 | 4 | 7 | 0 |
| Male | 8 | 0 | 0 | 1 | 1 | 3 | 3 | 0 |
| Female | 10 | 0 | 0 | 2 | 3 | 1 | 4 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[1] Persons of Hispanic origin may be of any race.

## Table 15. Tuberculosis Cases in Foreign-born Persons[1] by Race/Ethnicity, Sex, and Age: United States, 2001

| Race/Ethnicity and Sex | All Ages | Age Group | | | | | | Not Stated |
|---|---|---|---|---|---|---|---|---|
| | | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | |
| **Total Cases** | **7,865** | **92** | **171** | **1,151** | **3,340** | **1,839** | **1,270** | **2** |
| White, non-Hispanic | 535 | 12 | 7 | 63 | 181 | 126 | 146 | 0 |
| Male | 311 | 6 | 2 | 32 | 114 | 73 | 84 | 0 |
| Female | 224 | 6 | 5 | 31 | 67 | 53 | 62 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Black, non-Hispanic | 1,097 | 18 | 53 | 257 | 585 | 146 | 38 | 0 |
| Male | 632 | 13 | 33 | 131 | 339 | 93 | 23 | 0 |
| Female | 465 | 5 | 20 | 126 | 246 | 53 | 15 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hispanic[2] | 2,895 | 43 | 76 | 488 | 1,297 | 625 | 365 | 1 |
| Male | 1,883 | 20 | 38 | 316 | 868 | 434 | 206 | 1 |
| Female | 1,012 | 23 | 38 | 172 | 429 | 191 | 159 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| American Indian/Alaska Native | 18 | 0 | 0 | 1 | 11 | 4 | 2 | 0 |
| Male | 9 | 0 | 0 | 1 | 7 | 1 | 0 | 0 |
| Female | 9 | 0 | 0 | 0 | 4 | 3 | 2 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian/Pacific Islander | 3,304 | 19 | 35 | 339 | 1,260 | 933 | 717 | 1 |
| Male | 1,835 | 9 | 8 | 168 | 667 | 559 | 424 | 0 |
| Female | 1,469 | 10 | 27 | 171 | 593 | 374 | 293 | 1 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Not Stated | 16 | 0 | 0 | 3 | 6 | 5 | 2 | 0 |
| Male | 8 | 0 | 0 | 2 | 1 | 3 | 2 | 0 |
| Female | 8 | 0 | 0 | 1 | 5 | 2 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

[2]Persons of Hispanic origin may be of any race.

## Table 16. Tuberculosis Cases by Country of Origin: United States, 2001

### African Region
### Total Cases=571

| | | | | | |
|---|---|---|---|---|---|
| Algeria | 3 | Gabon | 1 | Nigeria | 53 |
| Angola | 0 | Gambia | 8 | Rwanda | 1 |
| Benin | 1 | Ghana | 16 | St. Helena | 0 |
| Botswana | 1 | Guinea | 17 | Sao Tome and Principe | 0 |
| Burkina Faso | 0 | Guinea-Bissau | 1 | Senegal | 13 |
| Burundi | 0 | Kenya | 84 | Seychelles | 0 |
| Cameroon | 11 | Lesotho | 0 | Sierra Leone | 31 |
| Cape Verde | 8 | Liberia | 43 | South Africa | 15 |
| Central African Republic | 2 | Madagascar | 1 | Swaziland | 0 |
| Chad | 2 | Malawi | 4 | Tanzania, UR | 14 |
| Comoros | 2 | Mali | 5 | Togo | 3 |
| Congo, Republic of | 12 | Mauritania | 3 | Uganda | 6 |
| Côte d'Ivoire | 3 | Mauritius | 0 | Zambia | 18 |
| DR Congo | 4 | Mozambique | 0 | Zimbabwe | 18 |
| Equatorial Guinea | 0 | Namibia | 0 | | |
| Ethiopia | 161 | Niger | 6 | | |

### Americas Region
### Total Cases=11,065

| | | | | | |
|---|---|---|---|---|---|
| Anguilla | 0 | Cuba | 58 | Panama | 5 |
| Antigua and Barbuda | 0 | Dominica | 1 | Paraguay | 1 |
| Argentina | 17 | Dominican Republic | 84 | Peru | 142 |
| Bahamas | 8 | Ecuador | 157 | Puerto Rico | 123 |
| Barbados | 0 | El Salvador | 154 | St. Kitts and Nevis | 3 |
| Belize | 6 | Grenada | 0 | St. Lucia | 0 |
| Bermuda | 1 | Guatemala | 137 | St. Vincent & Grenadines | 3 |
| Bolivia | 25 | Guyana | 17 | Suriname | 0 |
| Brazil | 41 | Haiti | 252 | Trinidad and Tobago | 17 |
| British Virgin Islands | 1 | Honduras | 133 | Turks and Caicos Islands | 0 |
| Canada | 10 | Jamaica | 26 | Uruguay | 3 |
| Cayman Islands | 0 | Mexico | 1,845 | U.S. Virgin Islands | 5 |
| Chile | 8 | Montserrat | 0 | United States of America | 7,675 |
| Colombia | 69 | Netherland Antilles | 0 | Venezuela | 8 |
| Costa Rica | 6 | Nicaragua | 24 | | |

### Eastern Mediterranean Region
### Total Cases=400

| | | | | | |
|---|---|---|---|---|---|
| Afghanistan | 26 | Kuwait | 1 | Somalia | 164 |
| Bahrain | 1 | Lebanon | 2 | Sudan | 48 |
| Cyprus | 0 | Libyan Arab Jamahiriya | 1 | Syrian Arab Republic | 3 |
| Djibouti | 3 | Morocco | 11 | Tunisia | 0 |
| Egypt | 8 | Oman | 1 | United Arab Emirates | 4 |
| Iran, Islamic Republic of | 19 | Pakistan | 87 | West Bank and Gaza | 0 |
| Iraq | 4 | Qatar | 1 | Yemen | 12 |
| Jordan | 4 | Saudi Arabia | 0 | | |

**Note:** Regional composition of countries based on WHO Report 2002 *Global Tuberculosis Control, Surveillance, Planning, Financing* (http://www.who.int/gtb/publications/globrep02/downloadpage.html).

## Table 16. (Cont'd) Tuberculosis Cases by Country of Origin: United States, 2001

### European Region
### Total Cases=339

| | | | | | |
|---|---|---|---|---|---|
| Albania | 4 | Greece | 4 | Poland | 28 |
| Andorra | 0 | Hungary | 5 | Portugal | 14 |
| Armenia | 8 | Iceland | 0 | Romania | 16 |
| Austria | 0 | Ireland | 10 | Russian Federation | 47 |
| Azerbaijan | 1 | Israel | 1 | San Marino | 0 |
| Belarus | 1 | Italy | 15 | Slovakia | 0 |
| Belguim | 1 | Kazakhstan | 1 | Slovenia | 0 |
| Bosnia and Herzegovina | 49 | Kyrgyzstan | 0 | Spain | 6 |
| Bulgaria | 1 | Latvia | 1 | Sweden | 1 |
| Croatia | 7 | Lithuania | 3 | Switzerland | 1 |
| Czech Republic | 0 | Luxembourg | 0 | Tajikistan | 0 |
| Denmark | 1 | Macedonia, TFYR | 3 | Turkey | 12 |
| Estonia | 2 | Malta | 1 | Turkmenistan | 0 |
| Finland | 1 | Moldova, Republic of | 1 | Ukraine | 32 |
| France | 9 | Monaco | 0 | United Kingdom | 12 |
| Georgia | 2 | Netherlands | 4 | Uzbekistan | 0 |
| Germany | 18 | Norway | 0 | Yugoslavia | 16 |

### Southeast Asia Region
### Total Cases=826

| | | | | | |
|---|---|---|---|---|---|
| Bangladesh | 43 | Korea, DPR | 19 | Sri Lanka | 3 |
| Bhutan | 0 | Maldives | 0 | Thailand | 42 |
| India | 604 | Myanmar | 36 | | |
| Indonesia | 53 | Nepal | 26 | | |

### Western Pacific Region
### Total Cases=2,465

| | | | | | |
|---|---|---|---|---|---|
| American Samoa | 7 | Korea, Rep. | 206 | Philippines | 907 |
| Australia | 3 | Lao, PDR | 101 | Pitcairn Island | 0 |
| Brunei Darussalam | 0 | Malaysia | 5 | Samoa | 1 |
| Cambodia | 83 | Marshall Islands, Republic of | 17 | Singapore | 3 |
| China | 421 | Micronesia, Federated States of | 4 | Solomon Islands | 0 |
| China, Hong Kong SAR | 28 | Mongolia | 2 | Tokelau | 0 |
| China, Macao SAR | 3 | Nauru | 1 | Tonga | 6 |
| Cook Islands | 0 | New Caledonia | 0 | Tuvalu | 0 |
| Fiji | 1 | New Zealand | 0 | Vanuatu | 0 |
| French Polynesia | 0 | Niue | 0 | Vietnam | 626 |
| Guam | 11 | N. Mariana Islands, Commonwealth of | 1 | Wallis and Futuna | 0 |
| Japan | 27 | Palau, Republic of | 1 | | |
| Kiribati | 0 | Papua New Guinea | 0 | | |

### Other[1]
### Total Cases=44

### Unknown
### Total Cases=279

[1]Includes country codes currently available for use in reporting via the National Tuberculosis Surveillance System that are not represented by WHO member states.

**Note:** Regional composition of countries based on WHO Report 2002 *Global Tuberculosis Control: Surveillance, Planning, Financing* (http://www.who.int/gtb/publications/globrep02/downloadpage.html).

## Table 17. Tuberculosis Cases and Case Rates per 100,000 Population: States, 2001 and 2000

| State | Cases | | Case Rates | | Rank According to Rate | | Population Estimates |
|---|---|---|---|---|---|---|---|
| | 2001 | 2000 | 2001 | 2000 | 2001 | 2000 | July 1, 2001 |
| **United States** | **15,989** | **16,377** | **5.6** | **5.8** | **--** | **--** | **284,797,000** |
| Alabama | 265 | 310 | 5.9 | 7.0 | 12 | 11 | 4,464,000 |
| Alaska | 54 | 108 | 8.5 | 17.2 | 4 | 1 | 635,000 |
| Arizona | 289 | 261 | 5.4 | 5.1 | 17 | 18 | 5,307,000 |
| Arkansas | 162 | 199 | 6.0 | 7.4 | 11 | 6 | 2,692,000 |
| California | 3,332 | 3,297 | 9.7 | 9.7 | 2 | 3 | 34,501,000 |
| Colorado | 138 | 97 | 3.1 | 2.3 | 31 | 38 | 4,418,000 |
| Connecticut | 121 | 105 | 3.5 | 3.1 | 29 | 31 | 3,425,000 |
| Delaware | 33 | 28 | 4.1 | 3.6 | 26 | 28 | 796,000 |
| District of Columbia[1] | 74 | 85 | 12.9 | 14.9 | -- | -- | 572,000 |
| Florida | 1,145 | 1,171 | 7.0 | 7.3 | 6 | 8 | 16,397,000 |
| Georgia | 575 | 703 | 6.9 | 8.6 | 7 | 5 | 8,384,000 |
| Hawaii | 151 | 136 | 12.3 | 11.2 | 1 | 2 | 1,224,000 |
| Idaho | 9 | 16 | 0.7 | 1.2 | 49 | 47 | 1,321,000 |
| Illinois | 707 | 743 | 5.7 | 6.0 | 14 | 15 | 12,482,000 |
| Indiana | 115 | 145 | 1.9 | 2.4 | 39 | 36 | 6,115,000 |
| Iowa | 43 | 40 | 1.5 | 1.4 | 46 | 46 | 2,923,000 |
| Kansas | 63 | 77 | 2.3 | 2.9 | 36 | 34 | 2,695,000 |
| Kentucky | 152 | 147 | 3.7 | 3.6 | 27 | 26 | 4,066,000 |
| Louisiana | 294 | 331 | 6.6 | 7.4 | 8 | 7 | 4,465,000 |
| Maine | 20 | 24 | 1.6 | 1.9 | 44 | 41 | 1,287,000 |
| Maryland | 262 | 282 | 4.9 | 5.3 | 19 | 17 | 5,375,000 |
| Massachusetts | 270 | 285 | 4.2 | 4.5 | 25 | 21 | 6,379,000 |
| Michigan | 330 | 287 | 3.3 | 2.9 | 30 | 33 | 9,991,000 |
| Minnesota | 239 | 178 | 4.8 | 3.6 | 21 | 27 | 4,972,000 |
| Mississippi | 154 | 173 | 5.4 | 6.1 | 18 | 14 | 2,858,000 |
| Missouri | 157 | 211 | 2.8 | 3.8 | 34 | 25 | 5,630,000 |
| Montana | 20 | 21 | 2.2 | 2.3 | 38 | 37 | 904,000 |
| Nebraska | 40 | 24 | 2.3 | 1.4 | 37 | 45 | 1,713,000 |
| Nevada | 96 | 96 | 4.6 | 4.8 | 22 | 19 | 2,106,000 |
| New Hampshire | 20 | 22 | 1.6 | 1.8 | 43 | 43 | 1,259,000 |
| New Jersey | 530 | 565 | 6.2 | 6.7 | 10 | 13 | 8,484,000 |
| New Mexico | 54 | 46 | 3.0 | 2.5 | 32 | 35 | 1,829,000 |
| New York | 1,676 | 1,744 | 8.8 | 9.2 | 3 | 4 | 19,011,000 |
| North Carolina | 398 | 447 | 4.9 | 5.6 | 20 | 16 | 8,186,000 |
| North Dakota | 6 | 5 | 0.9 | 0.8 | 48 | 49 | 634,000 |
| Ohio | 306 | 340 | 2.7 | 3.0 | 35 | 32 | 11,374,000 |
| Oklahoma | 194 | 154 | 5.6 | 4.5 | 15 | 22 | 3,460,000 |
| Oregon | 123 | 119 | 3.5 | 3.5 | 28 | 29 | 3,473,000 |
| Pennsylvania | 350 | 383 | 2.8 | 3.1 | 33 | 30 | 12,287,000 |
| Rhode Island | 60 | 49 | 5.7 | 4.7 | 13 | 20 | 1,059,000 |
| South Carolina | 263 | 286 | 6.5 | 7.1 | 9 | 10 | 4,063,000 |
| South Dakota | 13 | 16 | 1.7 | 2.1 | 41 | 40 | 757,000 |
| Tennessee | 313 | 383 | 5.5 | 6.7 | 16 | 12 | 5,740,000 |
| Texas | 1,643 | 1,506 | 7.7 | 7.2 | 5 | 9 | 21,325,000 |
| Utah | 35 | 49 | 1.5 | 2.2 | 45 | 39 | 2,270,000 |
| Vermont | 7 | 4 | 1.1 | 0.7 | 47 | 50 | 613,000 |
| Virginia | 306 | 292 | 4.3 | 4.1 | 24 | 24 | 7,188,000 |
| Washington | 261 | 258 | 4.4 | 4.4 | 23 | 23 | 5,988,000 |
| West Virginia | 32 | 33 | 1.8 | 1.8 | 40 | 42 | 1,802,000 |
| Wisconsin | 86 | 92 | 1.6 | 1.7 | 42 | 44 | 5,402,000 |
| Wyoming | 3 | 4 | 0.6 | 0.8 | 50 | 48 | 494,000 |
| American Samoa[1,2] | ... | ... | ... | ... | -- | -- | 67,084 |
| Fed. States of Micronesia[1,2] | ... | ... | ... | ... | -- | -- | 134,597 |
| Guam[1,2] | 63 | 54 | 40.0 | 34.9 | -- | -- | 157,557 |
| N. Mariana Islands[1,2] | 58 | 75 | 77.7 | 108.3 | -- | -- | 74,612 |
| Puerto Rico[1,2] | 121 | 174 | 3.2 | 4.6 | -- | -- | 3,839,810 |
| Republic of Palau[1,2] | ... | ... | ... | ... | -- | -- | 19,092 |
| U.S. Virgin Islands[1,2] | ... | ... | ... | ... | -- | -- | 122,211 |

[1]Not ranked with the states.

[2]Not included in U.S. totals.

Ellipses indicate data not available.

**Note:** Denominators for computing 2001 rates for the states and the District of Columbia were obtained from Table ST-2001EST-01-Time Series of State Population Estimates: April 1, 2000, to July 1, 2001, Population Division, U.S. Census Bureau (http://eire.census.gov/popest/data/states/tables/ST-EST2001-01.php.). Denominator for computing 2001 rate for Puerto Rico was obtained from U.S. Census Bureau (http://www.census.gov/ipc/www/pr2001.html). Denominators for computing 2001 rates for all other areas were obtained from the U.S. Census Bureau International Data Base (http://www.census.gov/ipc/www/idbnew.html).

See Surveillance Slide #4.

## Table 18. Tuberculosis Cases by Age Group: States, 2001

| State | Total Cases | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | Unknown or Missing |
|---|---|---|---|---|---|---|---|---|
| **United States** | **15,989** | **544** | **387** | **1,595** | **5,630** | **4,534** | **3,295** | **4** |
| Alabama | 265 | 9 | 2 | 13 | 69 | 82 | 90 | 0 |
| Alaska | 54 | 1 | 4 | 3 | 17 | 18 | 11 | 0 |
| Arizona | 289 | 14 | 9 | 40 | 88 | 81 | 57 | 0 |
| Arkansas | 162 | 5 | 5 | 14 | 39 | 47 | 52 | 0 |
| California | 3,332 | 132 | 92 | 318 | 1,109 | 953 | 727 | 1 |
| Colorado | 138 | 11 | 5 | 20 | 44 | 32 | 26 | 0 |
| Connecticut | 121 | 2 | 2 | 12 | 47 | 28 | 30 | 0 |
| Delaware | 33 | 1 | 0 | 2 | 12 | 10 | 8 | 0 |
| District of Columbia | 74 | 4 | 2 | 10 | 17 | 29 | 12 | 0 |
| Florida | 1,145 | 32 | 22 | 94 | 448 | 386 | 163 | 0 |
| Georgia | 575 | 26 | 3 | 45 | 233 | 181 | 86 | 1 |
| Hawaii | 151 | 1 | 1 | 16 | 30 | 56 | 47 | 0 |
| Idaho | 9 | 0 | 1 | 1 | 2 | 3 | 2 | 0 |
| Illinois | 707 | 31 | 14 | 68 | 259 | 216 | 119 | 0 |
| Indiana | 115 | 2 | 1 | 9 | 40 | 33 | 30 | 0 |
| Iowa | 43 | 0 | 1 | 3 | 10 | 13 | 16 | 0 |
| Kansas | 63 | 1 | 2 | 15 | 19 | 11 | 15 | 0 |
| Kentucky | 152 | 4 | 5 | 10 | 42 | 42 | 48 | 1 |
| Louisiana | 294 | 6 | 8 | 15 | 91 | 110 | 64 | 0 |
| Maine | 20 | 0 | 1 | 1 | 9 | 7 | 2 | 0 |
| Maryland | 262 | 10 | 9 | 34 | 110 | 52 | 47 | 0 |
| Massachusetts | 270 | 4 | 7 | 30 | 122 | 61 | 46 | 0 |
| Michigan | 330 | 14 | 6 | 35 | 110 | 88 | 77 | 0 |
| Minnesota | 239 | 10 | 17 | 55 | 91 | 41 | 25 | 0 |
| Mississippi | 154 | 5 | 2 | 6 | 43 | 52 | 46 | 0 |
| Missouri | 157 | 2 | 5 | 14 | 48 | 39 | 49 | 0 |
| Montana | 20 | 1 | 0 | 3 | 5 | 7 | 4 | 0 |
| Nebraska | 40 | 2 | 0 | 4 | 17 | 11 | 6 | 0 |
| Nevada | 96 | 2 | 2 | 10 | 30 | 38 | 14 | 0 |
| New Hampshire | 20 | 1 | 0 | 5 | 6 | 5 | 3 | 0 |
| New Jersey | 530 | 11 | 14 | 64 | 225 | 112 | 104 | 0 |
| New Mexico | 54 | 0 | 0 | 2 | 10 | 18 | 24 | 0 |
| New York | 1,676 | 39 | 36 | 204 | 680 | 446 | 271 | 0 |
| North Carolina | 398 | 7 | 4 | 37 | 133 | 113 | 104 | 0 |
| North Dakota | 6 | 0 | 0 | 1 | 0 | 3 | 2 | 0 |
| Ohio | 306 | 7 | 9 | 35 | 77 | 87 | 91 | 0 |
| Oklahoma | 194 | 1 | 7 | 25 | 52 | 45 | 51 | 0 |
| Oregon | 123 | 2 | 2 | 11 | 49 | 32 | 27 | 0 |
| Pennsylvania | 350 | 8 | 6 | 21 | 116 | 87 | 111 | 1 |
| Rhode Island | 60 | 6 | 2 | 10 | 17 | 16 | 9 | 0 |
| South Carolina | 263 | 13 | 12 | 16 | 81 | 76 | 65 | 0 |
| South Dakota | 13 | 0 | 1 | 2 | 5 | 1 | 4 | 0 |
| Tennessee | 313 | 7 | 5 | 22 | 104 | 81 | 94 | 0 |
| Texas | 1,643 | 75 | 45 | 151 | 594 | 500 | 278 | 0 |
| Utah | 35 | 1 | 2 | 5 | 10 | 11 | 6 | 0 |
| Vermont | 7 | 0 | 1 | 1 | 2 | 1 | 2 | 0 |
| Virginia | 306 | 6 | 6 | 37 | 129 | 74 | 54 | 0 |
| Washington | 261 | 11 | 6 | 37 | 91 | 71 | 45 | 0 |
| West Virginia | 32 | 0 | 0 | 0 | 12 | 8 | 12 | 0 |
| Wisconsin | 86 | 4 | 1 | 9 | 35 | 19 | 18 | 0 |
| Wyoming | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| American Samoa[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| Guam[1] | 63 | 3 | 0 | 3 | 27 | 21 | 9 | 0 |
| N. Mariana Islands[1] | 58 | 0 | 0 | 15 | 29 | 12 | 2 | 0 |
| Puerto Rico[1] | 121 | 0 | 0 | 12 | 30 | 47 | 32 | 0 |
| Republic of Palau[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[1] | ... | ... | ... | ... | ... | ... | ... | ... |

[1]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 19. Tuberculosis Cases by Race/Ethnicity: States, 2001

| State | Total Cases | White, non-Hispanic | Black, non-Hispanic | Hispanic[1] | American Indian or Alaska Native | Asian or Pacific Islander | Unknown or Missing |
|---|---|---|---|---|---|---|---|
| **United States** | **15,989** | **3,357** | **4,796** | **4,001** | **233** | **3,552** | **50** |
| Alabama | 265 | 107 | 126 | 22 | 0 | 10 | 0 |
| Alaska | 54 | 6 | 0 | 2 | 34 | 12 | 0 |
| Arizona | 289 | 72 | 14 | 135 | 44 | 24 | 0 |
| Arkansas | 162 | 63 | 61 | 14 | 1 | 19 | 4 |
| California | 3,332 | 365 | 292 | 1,253 | 15 | 1,400 | 7 |
| Colorado | 138 | 27 | 19 | 69 | 2 | 21 | 0 |
| Connecticut | 121 | 39 | 32 | 26 | 0 | 23 | 1 |
| Delaware | 33 | 9 | 10 | 8 | 0 | 6 | 0 |
| District of Columbia | 74 | 5 | 54 | 10 | 0 | 5 | 0 |
| Florida | 1,145 | 289 | 533 | 239 | 2 | 82 | 0 |
| Georgia | 575 | 110 | 337 | 66 | 2 | 57 | 3 |
| Hawaii | 151 | 6 | 0 | 1 | 0 | 143 | 1 |
| Idaho | 9 | 5 | 0 | 3 | 0 | 1 | 0 |
| Illinois | 707 | 129 | 277 | 149 | 6 | 143 | 3 |
| Indiana | 115 | 53 | 30 | 17 | 0 | 15 | 0 |
| Iowa | 43 | 17 | 7 | 3 | 2 | 13 | 1 |
| Kansas | 63 | 18 | 8 | 14 | 1 | 17 | 5 |
| Kentucky | 152 | 107 | 24 | 10 | 1 | 9 | 1 |
| Louisiana | 294 | 104 | 162 | 8 | 2 | 17 | 1 |
| Maine | 20 | 8 | 5 | 0 | 1 | 6 | 0 |
| Maryland | 262 | 33 | 138 | 31 | 1 | 59 | 0 |
| Massachusetts | 270 | 72 | 70 | 44 | 1 | 83 | 0 |
| Michigan | 330 | 111 | 155 | 11 | 0 | 51 | 2 |
| Minnesota | 239 | 21 | 132 | 17 | 6 | 63 | 0 |
| Mississippi | 154 | 39 | 101 | 5 | 2 | 5 | 2 |
| Missouri | 157 | 65 | 65 | 8 | 0 | 19 | 0 |
| Montana | 20 | 10 | 2 | 0 | 6 | 2 | 0 |
| Nebraska | 40 | 12 | 7 | 10 | 5 | 6 | 0 |
| Nevada | 96 | 27 | 14 | 18 | 1 | 35 | 1 |
| New Hampshire | 20 | 7 | 2 | 4 | 0 | 7 | 0 |
| New Jersey | 530 | 78 | 149 | 150 | 1 | 151 | 1 |
| New Mexico | 54 | 9 | 0 | 18 | 22 | 4 | 1 |
| New York | 1,676 | 225 | 527 | 490 | 1 | 428 | 5 |
| North Carolina | 398 | 93 | 197 | 77 | 2 | 29 | 0 |
| North Dakota | 6 | 2 | 1 | 0 | 3 | 0 | 0 |
| Ohio | 306 | 117 | 141 | 12 | 1 | 35 | 0 |
| Oklahoma | 194 | 76 | 41 | 21 | 38 | 17 | 1 |
| Oregon | 123 | 45 | 13 | 33 | 1 | 31 | 0 |
| Pennsylvania | 350 | 119 | 124 | 24 | 1 | 80 | 2 |
| Rhode Island | 60 | 19 | 12 | 16 | 0 | 13 | 0 |
| South Carolina | 263 | 54 | 173 | 21 | 0 | 15 | 0 |
| South Dakota | 13 | 3 | 3 | 2 | 4 | 1 | 0 |
| Tennessee | 313 | 139 | 138 | 21 | 0 | 11 | 4 |
| Texas | 1,643 | 270 | 417 | 780 | 5 | 171 | 0 |
| Utah | 35 | 10 | 4 | 13 | 2 | 6 | 0 |
| Vermont | 7 | 2 | 2 | 0 | 0 | 3 | 0 |
| Virginia | 306 | 50 | 99 | 79 | 2 | 74 | 2 |
| Washington | 261 | 63 | 46 | 34 | 11 | 105 | 2 |
| West Virginia | 32 | 27 | 5 | 0 | 0 | 0 | 0 |
| Wisconsin | 86 | 19 | 27 | 13 | 3 | 24 | 0 |
| Wyoming | 3 | 1 | 0 | 0 | 1 | 1 | 0 |
| American Samoa[2] | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[2] | ... | ... | ... | ... | ... | ... | ... |
| Guam[2] | 63 | 0 | 0 | 0 | 0 | 61 | 2 |
| N. Mariana Islands[2] | 58 | 1 | 0 | 0 | 0 | 57 | 0 |
| Puerto Rico[2] | 121 | 0 | 1 | 119 | 0 | 1 | 0 |
| Republic of Palau[2] | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[2] | ... | ... | ... | ... | ... | ... | ... |

[1]Persons of Hispanic origin may be of any race.

[2]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 20. Tuberculosis Cases, U.S.-born Persons and Foreign-born Persons: States, 2001

| State | Total Cases | U.S.-born Persons | | Foreign-born Persons[1] | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % |
| **United States** | **15,989** | **7,845** | **49.1** | **7,865** | **49.2** | **279** | **1.7** |
| Alabama | 265 | 233 | 87.9 | 32 | 12.1 | 0 | 0.0 |
| Alaska | 54 | 41 | 75.9 | 12 | 22.2 | 1 | 1.9 |
| Arizona | 289 | 152 | 52.6 | 133 | 46.0 | 4 | 1.4 |
| Arkansas | 162 | 136 | 84.0 | 17 | 10.5 | 9 | 5.6 |
| California | 3,332 | 840 | 25.2 | 2,465 | 74.0 | 27 | 0.8 |
| Colorado | 138 | 53 | 38.4 | 85 | 61.6 | 0 | 0.0 |
| Connecticut | 121 | 51 | 42.1 | 66 | 54.5 | 4 | 3.3 |
| Delaware | 33 | 13 | 39.4 | 20 | 60.6 | 0 | 0.0 |
| District of Columbia | 74 | 48 | 64.9 | 26 | 35.1 | 0 | 0.0 |
| Florida | 1,145 | 672 | 58.7 | 471 | 41.1 | 2 | 0.2 |
| Georgia | 575 | 416 | 72.3 | 158 | 27.5 | 1 | 0.2 |
| Hawaii | 151 | 37 | 24.5 | 109 | 72.2 | 5 | 3.3 |
| Idaho | 9 | 6 | 66.7 | 3 | 33.3 | 0 | 0.0 |
| Illinois | 707 | 447 | 63.2 | 259 | 36.6 | 1 | 0.1 |
| Indiana | 115 | 75 | 65.2 | 40 | 34.8 | 0 | 0.0 |
| Iowa | 43 | 20 | 46.5 | 23 | 53.5 | 0 | 0.0 |
| Kansas | 63 | 27 | 42.9 | 34 | 54.0 | 2 | 3.2 |
| Kentucky | 152 | 124 | 81.6 | 27 | 17.8 | 1 | 0.7 |
| Louisiana | 294 | 271 | 92.2 | 22 | 7.5 | 1 | 0.3 |
| Maine | 20 | 9 | 45.0 | 11 | 55.0 | 0 | 0.0 |
| Maryland | 262 | 109 | 41.6 | 153 | 58.4 | 0 | 0.0 |
| Massachusetts | 270 | 63 | 23.3 | 207 | 76.7 | 0 | 0.0 |
| Michigan | 330 | 213 | 64.5 | 117 | 35.5 | 0 | 0.0 |
| Minnesota | 239 | 46 | 19.2 | 192 | 80.3 | 1 | 0.4 |
| Mississippi | 154 | 140 | 90.9 | 12 | 7.8 | 2 | 1.3 |
| Missouri | 157 | 110 | 70.1 | 47 | 29.9 | 0 | 0.0 |
| Montana | 20 | 16 | 80.0 | 3 | 15.0 | 1 | 5.0 |
| Nebraska | 40 | 16 | 40.0 | 23 | 57.5 | 1 | 2.5 |
| Nevada | 96 | 38 | 39.6 | 57 | 59.4 | 1 | 1.0 |
| New Hampshire | 20 | 5 | 25.0 | 15 | 75.0 | 0 | 0.0 |
| New Jersey | 530 | 196 | 37.0 | 333 | 62.8 | 1 | 0.2 |
| New Mexico | 54 | 42 | 77.8 | 12 | 22.2 | 0 | 0.0 |
| New York | 1,676 | 521 | 31.1 | 953 | 56.9 | 202 | 12.1 |
| North Carolina | 398 | 272 | 68.3 | 125 | 31.4 | 1 | 0.3 |
| North Dakota | 6 | 4 | 66.7 | 1 | 16.7 | 1 | 16.7 |
| Ohio | 306 | 222 | 72.5 | 84 | 27.5 | 0 | 0.0 |
| Oklahoma | 194 | 162 | 83.5 | 31 | 16.0 | 1 | 0.5 |
| Oregon | 123 | 55 | 44.7 | 68 | 55.3 | 0 | 0.0 |
| Pennsylvania | 350 | 200 | 57.1 | 149 | 42.6 | 1 | 0.3 |
| Rhode Island | 60 | 21 | 35.0 | 38 | 63.3 | 1 | 1.7 |
| South Carolina | 263 | 231 | 87.8 | 32 | 12.2 | 0 | 0.0 |
| South Dakota | 13 | 8 | 61.5 | 5 | 38.5 | 0 | 0.0 |
| Tennessee | 313 | 269 | 85.9 | 44 | 14.1 | 0 | 0.0 |
| Texas | 1,643 | 934 | 56.8 | 708 | 43.1 | 1 | 0.1 |
| Utah | 35 | 13 | 37.1 | 22 | 62.9 | 0 | 0.0 |
| Vermont | 7 | 1 | 14.3 | 6 | 85.7 | 0 | 0.0 |
| Virginia | 306 | 117 | 38.2 | 184 | 60.1 | 5 | 1.6 |
| Washington | 261 | 74 | 28.4 | 186 | 71.3 | 1 | 0.4 |
| West Virginia | 32 | 32 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| Wisconsin | 86 | 42 | 48.8 | 44 | 51.2 | 0 | 0.0 |
| Wyoming | 3 | 2 | 66.7 | 1 | 33.3 | 0 | 0.0 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

See Surveillance Slide #13.

## Table 21. Tuberculosis Cases in Foreign-born Persons[1] by Country of Origin: States, 2001

| State | Total Cases | Country of Origin | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Mexico | Philippines | Vietnam | India | China | Haiti | South Korea | All Others[2] | Unknown or Missing |
| **United States** | **7,865** | **1,845** | **907** | **626** | **604** | **421** | **252** | **206** | **2,997** | **7** |
| Alabama | 32 | 11 | 1 | 2 | 5 | 0 | 0 | 0 | 13 | 0 |
| Alaska | 12 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| Arizona | 133 | 82 | 9 | 6 | 5 | 2 | 0 | 2 | 27 | 0 |
| Arkansas | 17 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 10 | 1 |
| California | 2,465 | 791 | 496 | 274 | 120 | 184 | 0 | 86 | 513 | 1 |
| Colorado | 85 | 35 | 3 | 6 | 5 | 3 | 0 | 1 | 32 | 0 |
| Connecticut | 66 | 4 | 3 | 4 | 4 | 2 | 7 | 1 | 41 | 0 |
| Delaware | 20 | 5 | 2 | 0 | 3 | 0 | 3 | 1 | 6 | 0 |
| District of Columbia | 26 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 21 | 0 |
| Florida | 471 | 62 | 30 | 20 | 14 | 8 | 128 | 2 | 207 | 0 |
| Georgia | 158 | 36 | 11 | 12 | 21 | 2 | 2 | 1 | 73 | 0 |
| Ha aii | 109 | 1 | 89 | 3 | 0 | 4 | 0 | 9 | 3 | 0 |
| Idaho | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Illinois | 259 | 75 | 29 | 16 | 51 | 8 | 0 | 5 | 74 | 1 |
| Indiana | 40 | 12 | 3 | 2 | 2 | 1 | 0 | 0 | 20 | 0 |
| Io a | 23 | 1 | 3 | 3 | 1 | 1 | 0 | 1 | 13 | 0 |
| Kansas | 34 | 10 | 1 | 3 | 6 | 1 | 0 | 0 | 13 | 0 |
| Kentucky | 27 | 7 | 1 | 3 | 4 | 0 | 1 | 0 | 11 | 0 |
| Louisiana | 22 | 3 | 3 | 4 | 4 | 2 | 0 | 0 | 6 | 0 |
| Maine | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 7 | 0 |
| Maryland | 153 | 5 | 12 | 9 | 14 | 6 | 2 | 5 | 100 | 0 |
| Massachusetts | 207 | 5 | 3 | 22 | 23 | 17 | 12 | 1 | 124 | 0 |
| Michigan | 117 | 5 | 13 | 7 | 14 | 6 | 0 | 3 | 69 | 0 |
| Minnesota | 192 | 8 | 4 | 14 | 5 | 6 | 1 | 2 | 152 | 0 |
| Mississippi | 12 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 4 | 0 |
| Missouri | 47 | 4 | 2 | 8 | 3 | 0 | 0 | 2 | 28 | 0 |
| Montana | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Nebraska | 23 | 6 | 1 | 2 | 0 | 1 | 0 | 0 | 13 | 0 |
| Nevada | 57 | 14 | 27 | 0 | 2 | 2 | 0 | 0 | 12 | 0 |
| New Hampshire | 15 | 3 | 2 | 0 | 3 | 2 | 1 | 0 | 4 | 0 |
| New Jersey | 333 | 16 | 30 | 7 | 79 | 7 | 19 | 10 | 165 | 0 |
| New Mexico | 12 | 8 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| New York | 953 | 51 | 32 | 16 | 68 | 111 | 68 | 33 | 573 | 1 |
| North Carolina | 125 | 58 | 4 | 5 | 13 | 0 | 0 | 1 | 44 | 0 |
| North Dakota | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Ohio | 84 | 1 | 3 | 6 | 14 | 5 | 1 | 1 | 53 | 0 |
| Oklahoma | 31 | 11 | 1 | 5 | 4 | 0 | 0 | 0 | 10 | 0 |
| Oregon | 68 | 25 | 4 | 11 | 1 | 6 | 0 | 0 | 21 | 0 |
| Pennsylvania | 149 | 6 | 2 | 19 | 27 | 9 | 2 | 8 | 74 | 2 |
| Rhode Island | 38 | 1 | 3 | 2 | 2 | 1 | 1 | 0 | 28 | 0 |
| South Carolina | 32 | 12 | 5 | 0 | 4 | 1 | 0 | 1 | 9 | 0 |
| South Dakota | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 |
| Tennessee | 44 | 10 | 2 | 2 | 4 | 2 | 0 | 2 | 22 | 0 |
| Texas | 708 | 388 | 22 | 67 | 32 | 6 | 3 | 5 | 185 | 0 |
| Utah | 22 | 7 | 3 | 1 | 2 | 0 | 0 | 0 | 9 | 0 |
| Vermont | 6 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 0 |
| Virginia | 184 | 18 | 9 | 27 | 17 | 5 | 1 | 7 | 100 | 0 |
| Washington | 186 | 28 | 26 | 27 | 12 | 6 | 0 | 13 | 73 | 1 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 44 | 9 | 2 | 0 | 10 | 2 | 0 | 1 | 20 | 0 |
| Wyoming | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

[2]Includes 145 countries.

See Surveillance Slide #16.

## Table 22. Tuberculosis Cases in Foreign-born Persons[1] by Number of Years in the United States: States, 2001

| State | Total Cases | <1 Year | | 1 - 4 | | 5 - 9 | | 10 - 19 | | 20+ | | Unknown or Missing | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| **United States** | **7,865** | **1,710** | **21.7** | **1,693** | **21.5** | **1,028** | **13.1** | **1,235** | **15.7** | **1,065** | **13.5** | **1,134** | **14.4** |
| Alabama | 32 | 13 | 40.6 | 10 | 31.3 | 0 | 0.0 | 3 | 9.4 | 3 | 9.4 | 3 | 9.4 |
| Alaska | 12 | 3 | 25.0 | 2 | 16.7 | 2 | 16.7 | 1 | 8.3 | 0 | 0.0 | 4 | 33.3 |
| Arizona | 133 | 31 | 23.3 | 32 | 24.1 | 14 | 10.5 | 19 | 14.3 | 18 | 13.5 | 19 | 14.3 |
| Arkansas | 17 | 3 | 17.6 | 3 | 17.6 | 0 | 0.0 | 5 | 29.4 | 1 | 5.9 | 5 | 29.4 |
| California | 2,465 | 479 | 19.4 | 381 | 15.5 | 345 | 14.0 | 516 | 20.9 | 435 | 17.6 | 309 | 12.5 |
| Colorado | 85 | 31 | 36.5 | 14 | 16.5 | 6 | 7.1 | 2 | 2.4 | 6 | 7.1 | 26 | 30.6 |
| Connecticut | 66 | 14 | 21.2 | 12 | 18.2 | 9 | 13.6 | 7 | 10.6 | 6 | 9.1 | 18 | 27.3 |
| Delaware | 20 | 7 | 35.0 | 4 | 20.0 | 0 | 0.0 | 0 | 0.0 | 2 | 10.0 | 7 | 35.0 |
| District of Columbia | 26 | 6 | 23.1 | 5 | 19.2 | 4 | 15.4 | 2 | 7.7 | 2 | 7.7 | 7 | 26.9 |
| Florida | 471 | 109 | 23.1 | 100 | 21.2 | 63 | 13.4 | 74 | 15.7 | 69 | 14.6 | 56 | 11.9 |
| Georgia | 158 | 28 | 17.7 | 40 | 25.3 | 28 | 17.7 | 17 | 10.8 | 11 | 7.0 | 34 | 21.5 |
| Hawaii | 109 | 32 | 29.4 | 9 | 8.3 | 20 | 18.3 | 18 | 16.5 | 22 | 20.2 | 8 | 7.3 |
| Idaho | 3 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 | 0 | 0.0 | 2 | 66.7 | 0 | 0.0 |
| Illinois | 259 | 41 | 15.8 | 74 | 28.6 | 43 | 16.6 | 42 | 16.2 | 42 | 16.2 | 17 | 6.6 |
| Indiana | 40 | 11 | 27.5 | 13 | 32.5 | 5 | 12.5 | 5 | 12.5 | 2 | 5.0 | 4 | 10.0 |
| Iowa | 23 | 1 | 4.3 | 8 | 34.8 | 3 | 13.0 | 1 | 4.3 | 3 | 13.0 | 7 | 30.4 |
| Kansas | 34 | 18 | 52.9 | 5 | 14.7 | 2 | 5.9 | 2 | 5.9 | 3 | 8.8 | 4 | 11.8 |
| Kentucky | 27 | 11 | 40.7 | 5 | 18.5 | 4 | 14.8 | 1 | 3.7 | 5 | 18.5 | 1 | 3.7 |
| Louisiana | 22 | 6 | 27.3 | 4 | 18.2 | 4 | 18.2 | 2 | 9.1 | 4 | 18.2 | 2 | 9.1 |
| Maine | 11 | 5 | 45.5 | 1 | 9.1 | 0 | 0.0 | 1 | 9.1 | 1 | 9.1 | 3 | 27.3 |
| Maryland | 153 | 49 | 32.0 | 39 | 25.5 | 22 | 14.4 | 25 | 16.3 | 4 | 2.6 | 14 | 9.2 |
| Massachusetts | 207 | 56 | 27.1 | 52 | 25.1 | 37 | 17.9 | 36 | 17.4 | 26 | 12.6 | 0 | 0.0 |
| Michigan | 117 | 36 | 30.8 | 41 | 35.0 | 5 | 4.3 | 9 | 7.7 | 22 | 18.8 | 4 | 3.4 |
| Minnesota | 192 | 61 | 31.8 | 59 | 30.7 | 37 | 19.3 | 15 | 7.8 | 10 | 5.2 | 10 | 5.2 |
| Mississippi | 12 | 4 | 33.3 | 1 | 8.3 | 2 | 16.7 | 0 | 0.0 | 3 | 25.0 | 2 | 16.7 |
| Missouri | 47 | 14 | 29.8 | 17 | 36.2 | 7 | 14.9 | 4 | 8.5 | 4 | 8.5 | 1 | 2.1 |
| Montana | 3 | 1 | 33.3 | 1 | 33.3 | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 |
| Nebraska | 23 | 3 | 13.0 | 10 | 43.5 | 7 | 30.4 | 1 | 4.3 | 2 | 8.7 | 0 | 0.0 |
| Nevada | 57 | 13 | 22.8 | 9 | 15.8 | 5 | 8.8 | 18 | 31.6 | 10 | 17.5 | 2 | 3.5 |
| New Hampshire | 15 | 6 | 40.0 | 4 | 26.7 | 0 | 0.0 | 4 | 26.7 | 0 | 0.0 | 1 | 6.7 |
| New Jersey | 333 | 65 | 19.5 | 82 | 24.6 | 35 | 10.5 | 32 | 9.6 | 24 | 7.2 | 95 | 28.5 |
| New Mexico | 12 | 3 | 25.0 | 0 | 0.0 | 0 | 0.0 | 3 | 25.0 | 3 | 25.0 | 3 | 25.0 |
| New York | 953 | 185 | 19.4 | 225 | 23.6 | 103 | 10.8 | 135 | 14.2 | 102 | 10.7 | 203 | 21.3 |
| North Carolina | 125 | 24 | 19.2 | 47 | 37.6 | 19 | 15.2 | 13 | 10.4 | 7 | 5.6 | 15 | 12.0 |
| North Dakota | 1 | 1 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Ohio | 84 | 30 | 35.7 | 21 | 25.0 | 7 | 8.3 | 10 | 11.9 | 5 | 6.0 | 11 | 13.1 |
| Oklahoma | 31 | 4 | 12.9 | 11 | 35.5 | 4 | 12.9 | 5 | 16.1 | 0 | 0.0 | 7 | 22.6 |
| Oregon | 68 | 15 | 22.1 | 16 | 23.5 | 10 | 14.7 | 3 | 4.4 | 2 | 2.9 | 22 | 32.4 |
| Pennsylvania | 149 | 30 | 20.1 | 34 | 22.8 | 9 | 6.0 | 11 | 7.4 | 16 | 10.7 | 49 | 32.9 |
| Rhode Island | 38 | 14 | 36.8 | 1 | 2.6 | 1 | 2.6 | 0 | 0.0 | 1 | 2.6 | 21 | 55.3 |
| South Carolina | 32 | 10 | 31.3 | 8 | 25.0 | 9 | 28.1 | 5 | 15.6 | 0 | 0.0 | 0 | 0.0 |
| South Dakota | 5 | 3 | 60.0 | 1 | 20.0 | 1 | 20.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Tennessee | 44 | 12 | 27.3 | 20 | 45.5 | 3 | 6.8 | 2 | 4.5 | 1 | 2.3 | 6 | 13.6 |
| Texas | 708 | 126 | 17.8 | 156 | 22.0 | 94 | 13.3 | 123 | 17.4 | 152 | 21.5 | 57 | 8.1 |
| Utah | 22 | 9 | 40.9 | 8 | 36.4 | 3 | 13.6 | 0 | 0.0 | 2 | 9.1 | 0 | 0.0 |
| Vermont | 6 | 2 | 33.3 | 1 | 16.7 | 1 | 16.7 | 1 | 16.7 | 0 | 0.0 | 1 | 16.7 |
| Virginia | 184 | 42 | 22.8 | 46 | 25.0 | 20 | 10.9 | 31 | 16.8 | 5 | 2.7 | 40 | 21.7 |
| Washington | 186 | 28 | 15.1 | 48 | 25.8 | 31 | 16.7 | 26 | 14.0 | 22 | 11.8 | 31 | 16.7 |
| West Virginia | 0 | 0 | . | 0 | . | 0 | . | 0 | . | 0 | . | 0 | . |
| Wisconsin | 44 | 15 | 34.1 | 12 | 27.3 | 4 | 9.1 | 5 | 11.4 | 4 | 9.1 | 4 | 9.1 |
| Wyoming | 1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 100.0 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

See Surveillance Slide #17.

## Table 23. Tuberculosis Cases by Form of Disease: States, 2001

| State | Total Cases | Pulmonary[1] | | Extrapulmonary[2] | | Cases with Both Pulmonary and Extrapulmonary Disease | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Total[3] | | Miliary |
| | | No. | % | No. | % | No. | % | No. |
| **United States** | **15,989** | **11,589** | **72.5** | **3,212** | **20.1** | **1,179** | **7.4** | **285** |
| Alabama | 265 | 224 | 84.5 | 35 | 13.2 | 6 | 2.3 | 0 |
| Alaska | 54 | 47 | 87.0 | 5 | 9.3 | 2 | 3.7 | 0 |
| Arizona | 289 | 223 | 77.2 | 45 | 15.6 | 21 | 7.3 | 6 |
| Arkansas | 162 | 138 | 85.2 | 18 | 11.1 | 6 | 3.7 | 1 |
| California | 3,332 | 2,471 | 74.2 | 626 | 18.8 | 235 | 7.1 | 44 |
| Colorado | 138 | 81 | 58.7 | 33 | 23.9 | 24 | 17.4 | 3 |
| Connecticut | 121 | 86 | 71.1 | 22 | 18.2 | 13 | 10.7 | 7 |
| Delaware | 33 | 24 | 72.7 | 7 | 21.2 | 2 | 6.1 | 0 |
| District of Columbia | 74 | 50 | 67.6 | 22 | 29.7 | 2 | 2.7 | 0 |
| Florida | 1,145 | 909 | 79.4 | 172 | 15.0 | 63 | 5.5 | 13 |
| Georgia | 575 | 429 | 74.6 | 114 | 19.8 | 32 | 5.6 | 6 |
| Hawaii | 151 | 127 | 84.1 | 20 | 13.2 | 4 | 2.6 | 0 |
| Idaho | 9 | 5 | 55.6 | 2 | 22.2 | 2 | 22.2 | 0 |
| Illinois | 707 | 498 | 70.4 | 169 | 23.9 | 40 | 5.7 | 10 |
| Indiana | 115 | 80 | 69.6 | 28 | 24.3 | 7 | 6.1 | 3 |
| Iowa | 43 | 31 | 72.1 | 7 | 16.3 | 4 | 9.3 | 1 |
| Kansas | 63 | 46 | 73.0 | 15 | 23.8 | 2 | 3.2 | 0 |
| Kentucky | 152 | 124 | 81.6 | 20 | 13.2 | 8 | 5.3 | 3 |
| Louisiana | 294 | 243 | 82.7 | 35 | 11.9 | 16 | 5.4 | 1 |
| Maine | 20 | 14 | 70.0 | 5 | 25.0 | 1 | 5.0 | 0 |
| Maryland | 262 | 181 | 69.1 | 42 | 16.0 | 39 | 14.9 | 14 |
| Massachusetts | 270 | 161 | 59.6 | 92 | 34.1 | 17 | 6.3 | 9 |
| Michigan | 330 | 229 | 69.4 | 74 | 22.4 | 27 | 8.2 | 5 |
| Minnesota | 239 | 121 | 50.6 | 95 | 39.7 | 23 | 9.6 | 14 |
| Mississippi | 154 | 119 | 77.3 | 31 | 20.1 | 3 | 1.9 | 0 |
| Missouri | 157 | 113 | 72.0 | 29 | 18.5 | 15 | 9.6 | 4 |
| Montana | 20 | 13 | 65.0 | 3 | 15.0 | 4 | 20.0 | 1 |
| Nebraska | 40 | 29 | 72.5 | 8 | 20.0 | 3 | 7.5 | 3 |
| Nevada | 96 | 77 | 80.2 | 15 | 15.6 | 2 | 2.1 | 0 |
| New Hampshire | 20 | 11 | 55.0 | 9 | 45.0 | 0 | 0.0 | 0 |
| New Jersey | 530 | 369 | 69.6 | 119 | 22.5 | 42 | 7.9 | 9 |
| New Mexico | 54 | 42 | 77.8 | 9 | 16.7 | 3 | 5.6 | 0 |
| New York | 1,676 | 1,159 | 69.2 | 380 | 22.7 | 137 | 8.2 | 29 |
| North Carolina | 398 | 286 | 71.9 | 80 | 20.1 | 32 | 8.0 | 14 |
| North Dakota | 6 | 3 | 50.0 | 2 | 33.3 | 1 | 16.7 | 0 |
| Ohio | 306 | 216 | 70.6 | 74 | 24.2 | 16 | 5.2 | 5 |
| Oklahoma | 194 | 127 | 65.5 | 41 | 21.1 | 26 | 13.4 | 4 |
| Oregon | 123 | 79 | 64.2 | 27 | 22.0 | 17 | 13.8 | 11 |
| Pennsylvania | 350 | 229 | 65.4 | 82 | 23.4 | 39 | 11.1 | 10 |
| Rhode Island | 60 | 40 | 66.7 | 16 | 26.7 | 4 | 6.7 | 1 |
| South Carolina | 263 | 180 | 68.4 | 51 | 19.4 | 32 | 12.2 | 9 |
| South Dakota | 13 | 11 | 84.6 | 2 | 15.4 | 0 | 0.0 | 0 |
| Tennessee | 313 | 233 | 74.4 | 44 | 14.1 | 36 | 11.5 | 4 |
| Texas | 1,643 | 1,229 | 74.8 | 293 | 17.8 | 121 | 7.4 | 30 |
| Utah | 35 | 24 | 68.6 | 6 | 17.1 | 5 | 14.3 | 0 |
| Vermont | 7 | 4 | 57.1 | 3 | 42.9 | 0 | 0.0 | 0 |
| Virginia | 306 | 218 | 71.2 | 77 | 25.2 | 8 | 2.6 | 1 |
| Washington | 261 | 151 | 57.9 | 84 | 32.2 | 25 | 9.6 | 7 |
| West Virginia | 32 | 25 | 78.1 | 3 | 9.4 | 4 | 12.5 | 0 |
| Wisconsin | 86 | 59 | 68.6 | 20 | 23.3 | 7 | 8.1 | 3 |
| Wyoming | 3 | 1 | 33.3 | 1 | 33.3 | 1 | 33.3 | 0 |
| American Samoa[4] | ... | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[4] | ... | ... | ... | ... | ... | ... | ... | ... |
| Guam[4] | 63 | 58 | 92.1 | 3 | 4.8 | 2 | 3.2 | 1 |
| N. Mariana Islands[4] | 58 | 45 | 77.6 | 8 | 13.8 | 5 | 8.6 | 1 |
| Puerto Rico[4] | 121 | 106 | 87.6 | 13 | 10.7 | 2 | 1.7 | 0 |
| Republic of Palau[4] | ... | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[4] | ... | ... | ... | ... | ... | ... | ... | ... |

[1]Includes cases with pulmonary listed as major site of disease and no additional site of disease.

[2]Includes cases with pleural, lymphatic, bone and/or joint, meningeal, peritoneal, or other site, excluding pulmonary, listed as major site of disease.

[3]Includes miliary cases.

[4]Not included in U.S. totals.

Ellipses indicate data not available.

**Note:** 9 (<0.1%) cases had missing and/or unknown site of disease.

## Table 24. Extrapulmonary Tuberculosis Cases by Site of Disease: States, 2001

| State | Total Extrapulmonary Cases | Site of Disease | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Pleural | Lymphatic | Bone and/ or Joint | Genito-urinary | Meningeal | Peritoneal | Other |
| **United States** | **3,212** | **589** | **1,365** | **329** | **191** | **194** | **148** | **396** |
| Alabama | 35 | 6 | 6 | 8 | 3 | 5 | 2 | 5 |
| Alaska | 5 | 0 | 2 | 0 | 1 | 0 | 1 | 1 |
| Arizona | 45 | 6 | 15 | 8 | 3 | 4 | 4 | 5 |
| Arkansas | 18 | 7 | 3 | 0 | 4 | 0 | 0 | 4 |
| California | 626 | 99 | 273 | 73 | 41 | 39 | 30 | 71 |
| Colorado | 33 | 3 | 19 | 2 | 4 | 4 | 0 | 1 |
| Connecticut | 22 | 1 | 14 | 2 | 2 | 1 | 0 | 2 |
| Delaware | 7 | 2 | 2 | 1 | 0 | 0 | 1 | 1 |
| District of Columbia | 22 | 6 | 13 | 1 | 0 | 1 | 0 | 1 |
| Florida | 172 | 35 | 70 | 13 | 14 | 13 | 4 | 23 |
| Georgia | 114 | 20 | 46 | 12 | 8 | 8 | 7 | 13 |
| Hawaii | 20 | 5 | 7 | 1 | 0 | 0 | 4 | 3 |
| Idaho | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 169 | 30 | 81 | 16 | 5 | 6 | 4 | 27 |
| Indiana | 28 | 5 | 9 | 6 | 0 | 2 | 1 | 5 |
| Iowa | 7 | 0 | 2 | 0 | 2 | 1 | 1 | 1 |
| Kansas | 15 | 3 | 6 | 1 | 0 | 0 | 0 | 5 |
| Kentucky | 20 | 7 | 8 | 1 | 1 | 0 | 0 | 3 |
| Louisiana | 35 | 9 | 8 | 2 | 1 | 0 | 2 | 13 |
| Maine | 5 | 1 | 3 | 0 | 1 | 0 | 0 | 0 |
| Maryland | 42 | 8 | 24 | 4 | 1 | 4 | 1 | 0 |
| Massachusetts | 92 | 21 | 40 | 11 | 4 | 2 | 5 | 9 |
| Michigan | 74 | 11 | 34 | 10 | 5 | 3 | 2 | 9 |
| Minnesota | 95 | 23 | 40 | 2 | 4 | 5 | 4 | 17 |
| Mississippi | 31 | 17 | 6 | 0 | 1 | 1 | 2 | 4 |
| Missouri | 29 | 5 | 12 | 4 | 3 | 0 | 3 | 2 |
| Montana | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 8 | 1 | 6 | 0 | 1 | 0 | 0 | 0 |
| Nevada | 15 | 1 | 5 | 1 | 0 | 2 | 3 | 3 |
| New Hampshire | 9 | 0 | 5 | 2 | 0 | 0 | 1 | 1 |
| New Jersey | 119 | 13 | 67 | 17 | 7 | 4 | 3 | 8 |
| New Mexico | 9 | 1 | 3 | 0 | 1 | 2 | 0 | 2 |
| New York | 380 | 61 | 171 | 43 | 21 | 21 | 20 | 43 |
| North Carolina | 80 | 24 | 29 | 10 | 3 | 1 | 3 | 10 |
| North Dakota | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Ohio | 74 | 13 | 27 | 12 | 2 | 4 | 4 | 12 |
| Oklahoma | 41 | 6 | 19 | 4 | 4 | 2 | 0 | 6 |
| Oregon | 27 | 8 | 7 | 1 | 4 | 3 | 2 | 2 |
| Pennsylvania | 82 | 17 | 29 | 10 | 3 | 7 | 2 | 14 |
| Rhode Island | 16 | 2 | 8 | 0 | 0 | 0 | 1 | 5 |
| South Carolina | 51 | 10 | 16 | 5 | 5 | 3 | 5 | 7 |
| South Dakota | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Tennessee | 44 | 13 | 12 | 3 | 3 | 4 | 3 | 6 |
| Texas | 293 | 57 | 112 | 27 | 13 | 31 | 14 | 39 |
| Utah | 6 | 0 | 1 | 0 | 2 | 2 | 1 | 0 |
| Vermont | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Virginia | 77 | 11 | 47 | 5 | 4 | 7 | 2 | 1 |
| Washington | 84 | 15 | 41 | 9 | 6 | 1 | 6 | 6 |
| West Virginia | 3 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| Wisconsin | 20 | 2 | 12 | 0 | 1 | 1 | 0 | 4 |
| Wyoming | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| American Samoa[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| Guam[1] | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| N. Mariana Islands[1] | 8 | 4 | 2 | 0 | 1 | 0 | 1 | 0 |
| Puerto Rico[1] | 13 | 5 | 3 | 2 | 0 | 1 | 0 | 2 |
| Republic of Palau[1] | ... | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[1] | ... | ... | ... | ... | ... | ... | ... | ... |

[1]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 25. Tuberculosis Cases in Residents of Correctional Facilities: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Residence in Correctional Facilities | | Percent of Cases in Residents of Correctional Facilities[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **15,920** | **99.6** | **3.3** |
| Alabama | 265 | 265 | 100.0 | 2.3 |
| Alaska | 54 | 54 | 100.0 | 5.6 |
| Arizona | 289 | 289 | 100.0 | 5.5 |
| Arkansas | 162 | 162 | 100.0 | 1.2 |
| California | 3,332 | 3,324 | 99.8 | 3.5 |
| Colorado | 138 | 138 | 100.0 | 1.4 |
| Connecticut | 121 | 120 | 99.2 | 2.5 |
| Delaware | 33 | 33 | 100.0 | 0.0 |
| District of Columbia | 74 | 74 | 100.0 | 1.4 |
| Florida | 1,145 | 1,139 | 99.5 | 5.4 |
| Georgia | 575 | 572 | 99.5 | 5.4 |
| Hawaii | 151 | 149 | 98.7 | 0.0 |
| Idaho | 9 | 9 | 100.0 | 0.0 |
| Illinois | 707 | 703 | 99.4 | 2.4 |
| Indiana | 115 | 115 | 100.0 | 0.9 |
| Iowa | 43 | 43 | 100.0 | 0.0 |
| Kansas | 63 | 60 | 95.2 | 0.0 |
| Kentucky | 152 | 152 | 100.0 | 3.3 |
| Louisiana | 294 | 293 | 99.7 | 3.4 |
| Maine | 20 | 20 | 100.0 | 0.0 |
| Maryland | 262 | 262 | 100.0 | 1.5 |
| Massachusetts | 270 | 269 | 99.6 | 1.1 |
| Michigan | 330 | 330 | 100.0 | 0.9 |
| Minnesota | 239 | 239 | 100.0 | 0.4 |
| Mississippi | 154 | 134 | 87.0 | 3.0 |
| Missouri | 157 | 157 | 100.0 | 3.2 |
| Montana | 20 | 20 | 100.0 | 0.0 |
| Nebraska | 40 | 40 | 100.0 | 2.5 |
| Nevada | 96 | 96 | 100.0 | 1.0 |
| New Hampshire | 20 | 20 | 100.0 | 0.0 |
| New Jersey | 530 | 528 | 99.6 | 0.4 |
| New Mexico | 54 | 54 | 100.0 | 0.0 |
| New York State[2] | 415 | 415 | 100.0 | 2.9 |
| New York City | 1,261 | 1,257 | 99.7 | 2.4 |
| North Carolina | 398 | 398 | 100.0 | 1.3 |
| North Dakota | 6 | 6 | 100.0 | 0.0 |
| Ohio | 306 | 306 | 100.0 | 4.2 |
| Oklahoma | 194 | 194 | 100.0 | 2.6 |
| Oregon | 123 | 123 | 100.0 | 1.6 |
| Pennsylvania | 350 | 347 | 99.1 | 2.9 |
| Rhode Island | 60 | 60 | 100.0 | 0.0 |
| South Carolina | 263 | 263 | 100.0 | 2.3 |
| South Dakota | 13 | 13 | 100.0 | 0.0 |
| Tennessee | 313 | 313 | 100.0 | 2.6 |
| Texas | 1,643 | 1,643 | 100.0 | 6.8 |
| Utah | 35 | 34 | 97.1 | 0.0 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 296 | 96.7 | 1.0 |
| Washington | 261 | 261 | 100.0 | 3.8 |
| West Virginia | 32 | 32 | 100.0 | 3.1 |
| Wisconsin | 86 | 86 | 100.0 | 5.8 |
| Wyoming | 3 | 3 | 100.0 | 33.3 |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 63 | 100.0 | 3.2 |
| N. Mariana Islands[3] | 58 | 58 | 100.0 | 0.0 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 3.3 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Resident of correctional facility at time of diagnosis. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 26. Tuberculosis Cases by Homeless Status: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Homeless Status | | Percent of Cases in Homeless Persons[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **15,255** | **95.4** | **6.1** |
| Alabama | 265 | 265 | 100.0 | 2.6 |
| Alaska | 54 | 54 | 100.0 | 1.9 |
| Arizona | 289 | 283 | 97.9 | 15.5 |
| Arkansas | 162 | 162 | 100.0 | 1.2 |
| California | 3,332 | 3,300 | 99.0 | 7.1 |
| Colorado | 138 | 138 | 100.0 | 5.8 |
| Connecticut | 121 | 116 | 95.9 | 9.5 |
| Delaware | 33 | 33 | 100.0 | 6.1 |
| District of Columbia | 74 | 74 | 100.0 | 8.1 |
| Florida | 1,145 | 1,140 | 99.6 | 9.3 |
| Georgia | 575 | 549 | 95.5 | 10.9 |
| Hawaii | 151 | 151 | 100.0 | 0.0 |
| Idaho | 9 | 8 | 88.9 | 0.0 |
| Illinois | 707 | 693 | 98.0 | 3.3 |
| Indiana | 115 | 115 | 100.0 | 3.5 |
| Iowa | 43 | 43 | 100.0 | 4.7 |
| Kansas | 63 | 58 | 92.1 | 6.9 |
| Kentucky | 152 | 148 | 97.4 | 6.8 |
| Louisiana | 294 | 282 | 95.9 | 5.0 |
| Maine | 20 | 19 | 95.0 | 10.5 |
| Maryland | 262 | 261 | 99.6 | 2.3 |
| Massachusetts | 270 | 264 | 97.8 | 3.0 |
| Michigan | 330 | 324 | 98.2 | 4.3 |
| Minnesota | 239 | 237 | 99.2 | 5.5 |
| Mississippi | 154 | 122 | 79.2 | 4.9 |
| Missouri | 157 | 155 | 98.7 | 10.3 |
| Montana | 20 | 20 | 100.0 | 15.0 |
| Nebraska | 40 | 40 | 100.0 | 10.0 |
| Nevada | 96 | 96 | 100.0 | 7.3 |
| New Hampshire | 20 | 20 | 100.0 | 10.0 |
| New Jersey | 530 | 525 | 99.1 | 2.3 |
| New Mexico | 54 | 54 | 100.0 | 9.3 |
| New York State[2] | 415 | 397 | 95.7 | 2.3 |
| New York City | 1,261 | 750 | 59.5 | -- |
| North Carolina | 398 | 396 | 99.5 | 8.1 |
| North Dakota | 6 | 6 | 100.0 | 0.0 |
| Ohio | 306 | 304 | 99.3 | 5.3 |
| Oklahoma | 194 | 194 | 100.0 | 6.7 |
| Oregon | 123 | 122 | 99.2 | 23.0 |
| Pennsylvania | 350 | 336 | 96.0 | 1.8 |
| Rhode Island | 60 | 60 | 100.0 | 0.0 |
| South Carolina | 263 | 262 | 99.6 | 3.1 |
| South Dakota | 13 | 13 | 100.0 | 7.7 |
| Tennessee | 313 | 310 | 99.0 | 11.0 |
| Texas | 1,643 | 1,643 | 100.0 | 5.1 |
| Utah | 35 | 35 | 100.0 | 14.3 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 294 | 96.1 | 2.0 |
| Washington | 261 | 260 | 99.6 | 8.1 |
| West Virginia | 32 | 28 | 87.5 | 10.7 |
| Wisconsin | 86 | 86 | 100.0 | 8.1 |
| Wyoming | 3 | 3 | 100.0 | 0.0 |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 61 | 96.8 | 0.0 |
| N. Mariana Islands[3] | 58 | 58 | 100.0 | 0.0 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 4.1 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Homeless within past 12 months. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 27. Tuberculosis Cases in Residents of Long-term Care Facilities: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Residence in Long-term Care Facilities | | Percent of Cases in Residents of Long-term Care Facilities[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **15,918** | **99.6** | **2.8** |
| Alabama | 265 | 265 | 100.0 | 3.4 |
| Alaska | 54 | 54 | 100.0 | 1.9 |
| Arizona | 289 | 289 | 100.0 | 4.8 |
| Arkansas | 162 | 162 | 100.0 | 4.9 |
| California | 3,332 | 3,322 | 99.7 | 2.0 |
| Colorado | 138 | 138 | 100.0 | 2.9 |
| Connecticut | 121 | 118 | 97.5 | 5.1 |
| Delaware | 33 | 33 | 100.0 | 0.0 |
| District of Columbia | 74 | 74 | 100.0 | 0.0 |
| Florida | 1,145 | 1,138 | 99.4 | 1.2 |
| Georgia | 575 | 572 | 99.5 | 3.7 |
| Hawaii | 151 | 150 | 99.3 | 1.3 |
| Idaho | 9 | 9 | 100.0 | 11.1 |
| Illinois | 707 | 704 | 99.6 | 3.3 |
| Indiana | 115 | 115 | 100.0 | 2.6 |
| Iowa | 43 | 43 | 100.0 | 4.7 |
| Kansas | 63 | 60 | 95.2 | 3.3 |
| Kentucky | 152 | 152 | 100.0 | 6.6 |
| Louisiana | 294 | 292 | 99.3 | 1.7 |
| Maine | 20 | 20 | 100.0 | 0.0 |
| Maryland | 262 | 262 | 100.0 | 5.0 |
| Massachusetts | 270 | 270 | 100.0 | 1.5 |
| Michigan | 330 | 330 | 100.0 | 3.3 |
| Minnesota | 239 | 239 | 100.0 | 1.7 |
| Mississippi | 154 | 134 | 87.0 | 3.0 |
| Missouri | 157 | 156 | 99.4 | 1.9 |
| Montana | 20 | 20 | 100.0 | 5.0 |
| Nebraska | 40 | 40 | 100.0 | 2.5 |
| Nevada | 96 | 96 | 100.0 | 2.1 |
| New Hampshire | 20 | 20 | 100.0 | 0.0 |
| New Jersey | 530 | 530 | 100.0 | 1.5 |
| New Mexico | 54 | 54 | 100.0 | 3.7 |
| New York State[2] | 415 | 415 | 100.0 | 3.1 |
| New York City | 1,261 | 1,255 | 99.5 | 1.8 |
| North Carolina | 398 | 398 | 100.0 | 5.3 |
| North Dakota | 6 | 6 | 100.0 | 16.7 |
| Ohio | 306 | 306 | 100.0 | 5.6 |
| Oklahoma | 194 | 194 | 100.0 | 3.1 |
| Oregon | 123 | 123 | 100.0 | 2.4 |
| Pennsylvania | 350 | 345 | 98.6 | 3.8 |
| Rhode Island | 60 | 60 | 100.0 | 0.0 |
| South Carolina | 263 | 263 | 100.0 | 4.2 |
| South Dakota | 13 | 13 | 100.0 | 7.7 |
| Tennessee | 313 | 313 | 100.0 | 4.8 |
| Texas | 1,643 | 1,643 | 100.0 | 3.2 |
| Utah | 35 | 35 | 100.0 | 0.0 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 299 | 97.7 | 2.0 |
| Washington | 261 | 261 | 100.0 | 1.9 |
| West Virginia | 32 | 32 | 100.0 | 6.3 |
| Wisconsin | 86 | 86 | 100.0 | 3.5 |
| Wyoming | 3 | 3 | 100.0 | 0.0 |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 63 | 100.0 | 0.0 |
| N. Mariana Islands[3] | 58 | 58 | 100.0 | 0.0 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 6.6 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Resident of long-term care facility at time of diagnosis. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 28. Tuberculosis Cases by Injecting Drug Use: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Injecting Drug Use | | Percent of Cases in Injecting Drug Users[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **14,871** | **93.0** | **2.3** |
| Alabama | 265 | 265 | 100.0 | 2.6 |
| Alaska | 54 | 49 | 90.7 | 0.0 |
| Arizona | 289 | 275 | 95.2 | 4.0 |
| Arkansas | 162 | 159 | 98.1 | 1.3 |
| California | 3,332 | 3,210 | 96.3 | 2.7 |
| Colorado | 138 | 138 | 100.0 | 0.7 |
| Connecticut | 121 | 106 | 87.6 | 6.6 |
| Delaware | 33 | 33 | 100.0 | 0.0 |
| District of Columbia | 74 | 73 | 98.6 | 0.0 |
| Florida | 1,145 | 1,109 | 96.9 | 3.8 |
| Georgia | 575 | 502 | 87.3 | 1.8 |
| Hawaii | 151 | 120 | 79.5 | 0.0 |
| Idaho | 9 | 8 | 88.9 | 0.0 |
| Illinois | 707 | 651 | 92.1 | 2.6 |
| Indiana | 115 | 115 | 100.0 | 5.2 |
| Iowa | 43 | 12 | 27.9 | -- |
| Kansas | 63 | 51 | 81.0 | 3.9 |
| Kentucky | 152 | 150 | 98.7 | 0.7 |
| Louisiana | 294 | 282 | 95.9 | 2.5 |
| Maine | 20 | 19 | 95.0 | 0.0 |
| Maryland | 262 | 259 | 98.9 | 2.7 |
| Massachusetts | 270 | 264 | 97.8 | 0.8 |
| Michigan | 330 | 314 | 95.2 | 3.2 |
| Minnesota | 239 | 236 | 98.7 | 0.4 |
| Mississippi | 154 | 127 | 82.5 | 0.0 |
| Missouri | 157 | 154 | 98.1 | 1.9 |
| Montana | 20 | 19 | 95.0 | 0.0 |
| Nebraska | 40 | 39 | 97.5 | 0.0 |
| Nevada | 96 | 95 | 99.0 | 0.0 |
| New Hampshire | 20 | 20 | 100.0 | 0.0 |
| New Jersey | 530 | 527 | 99.4 | 3.8 |
| New Mexico | 54 | 52 | 96.3 | 1.9 |
| New York State[2] | 415 | 382 | 92.0 | 1.3 |
| New York City | 1,261 | 849 | 67.3 | -- |
| North Carolina | 398 | 382 | 96.0 | 1.6 |
| North Dakota | 6 | 5 | 83.3 | 20.0 |
| Ohio | 306 | 302 | 98.7 | 1.3 |
| Oklahoma | 194 | 194 | 100.0 | 4.1 |
| Oregon | 123 | 119 | 96.7 | 2.5 |
| Pennsylvania | 350 | 299 | 85.4 | 1.3 |
| Rhode Island | 60 | 60 | 100.0 | 0.0 |
| South Carolina | 263 | 260 | 98.9 | 0.0 |
| South Dakota | 13 | 13 | 100.0 | 0.0 |
| Tennessee | 313 | 303 | 96.8 | 1.7 |
| Texas | 1,643 | 1,591 | 96.8 | 2.2 |
| Utah | 35 | 34 | 97.1 | 5.9 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 277 | 90.5 | 1.4 |
| Washington | 261 | 253 | 96.9 | 2.0 |
| West Virginia | 32 | 22 | 68.8 | -- |
| Wisconsin | 86 | 84 | 97.7 | 0.0 |
| Wyoming | 3 | 2 | 66.7 | -- |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 61 | 96.8 | 0.0 |
| N. Mariana Islands[3] | 58 | 58 | 100.0 | 0.0 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 17.4 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Injecting drug use within past 12 months. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 29. Tuberculosis Cases by Noninjecting Drug Use: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Noninjecting Drug Use | | Percent of Cases in Noninjecting Drug Users[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **14,780** | **92.4** | **7.2** |
| Alabama | 265 | 265 | 100.0 | 8.7 |
| Alaska | 54 | 49 | 90.7 | 0.0 |
| Arizona | 289 | 276 | 95.5 | 7.6 |
| Arkansas | 162 | 157 | 96.9 | 1.9 |
| California | 3,332 | 3,198 | 96.0 | 6.5 |
| Colorado | 138 | 138 | 100.0 | 6.5 |
| Connecticut | 121 | 104 | 86.0 | 8.7 |
| Delaware | 33 | 33 | 100.0 | 3.0 |
| District of Columbia | 74 | 73 | 98.6 | 2.7 |
| Florida | 1,145 | 1,105 | 96.5 | 14.0 |
| Georgia | 575 | 502 | 87.3 | 10.0 |
| Hawaii | 151 | 120 | 79.5 | 0.8 |
| Idaho | 9 | 7 | 77.8 | 14.3 |
| Illinois | 707 | 638 | 90.2 | 13.0 |
| Indiana | 115 | 115 | 100.0 | 3.5 |
| Iowa | 43 | 11 | 25.6 | -- |
| Kansas | 63 | 54 | 85.7 | 20.4 |
| Kentucky | 152 | 149 | 98.0 | 7.4 |
| Louisiana | 294 | 276 | 93.9 | 14.1 |
| Maine | 20 | 19 | 95.0 | 5.3 |
| Maryland | 262 | 260 | 99.2 | 5.8 |
| Massachusetts | 270 | 263 | 97.4 | 1.5 |
| Michigan | 330 | 310 | 93.9 | 5.2 |
| Minnesota | 239 | 236 | 98.7 | 3.4 |
| Mississippi | 154 | 118 | 76.6 | 10.2 |
| Missouri | 157 | 152 | 96.8 | 7.9 |
| Montana | 20 | 20 | 100.0 | 10.0 |
| Nebraska | 40 | 36 | 90.0 | 0.0 |
| Nevada | 96 | 86 | 89.6 | 1.2 |
| New Hampshire | 20 | 20 | 100.0 | 5.0 |
| New Jersey | 530 | 526 | 99.2 | 6.8 |
| New Mexico | 54 | 52 | 96.3 | 1.9 |
| New York State[2] | 415 | 380 | 91.6 | 3.9 |
| New York City | 1,261 | 845 | 67.0 | -- |
| North Carolina | 398 | 383 | 96.2 | 9.1 |
| North Dakota | 6 | 5 | 83.3 | 20.0 |
| Ohio | 306 | 301 | 98.4 | 5.0 |
| Oklahoma | 194 | 194 | 100.0 | 9.8 |
| Oregon | 123 | 119 | 96.7 | 6.7 |
| Pennsylvania | 350 | 289 | 82.6 | 2.4 |
| Rhode Island | 60 | 60 | 100.0 | 0.0 |
| South Carolina | 263 | 260 | 98.9 | 8.8 |
| South Dakota | 13 | 13 | 100.0 | 0.0 |
| Tennessee | 313 | 302 | 96.5 | 8.9 |
| Texas | 1,643 | 1,588 | 96.7 | 6.5 |
| Utah | 35 | 34 | 97.1 | 2.9 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 272 | 88.9 | 2.2 |
| Washington | 261 | 252 | 96.6 | 2.4 |
| West Virginia | 32 | 22 | 68.8 | -- |
| Wisconsin | 86 | 84 | 97.7 | 7.1 |
| Wyoming | 3 | 2 | 66.7 | -- |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 59 | 93.7 | 0.0 |
| N. Mariana Islands[3] | 58 | 58 | 100.0 | 6.9 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 22.3 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Noninjecting drug use within past 12 months. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 30. Tuberculosis Cases by Excess Alcohol Use: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Excess Alcohol Use | | Percent of Cases in Persons with Excess Alcohol Use[1] |
|---|---|---|---|---|
| | | No. | % | |
| **United States** | **15,989** | **14,843** | **92.8** | **15.2** |
| Alabama | 265 | 265 | 100.0 | 20.0 |
| Alaska | 54 | 49 | 90.7 | 26.5 |
| Arizona | 289 | 278 | 96.2 | 21.2 |
| Arkansas | 162 | 158 | 97.5 | 11.4 |
| California | 3,332 | 3,210 | 96.3 | 11.7 |
| Colorado | 138 | 138 | 100.0 | 13.0 |
| Connecticut | 121 | 104 | 86.0 | 18.3 |
| Delaware | 33 | 33 | 100.0 | 6.1 |
| District of Columbia | 74 | 73 | 98.6 | 15.1 |
| Florida | 1,145 | 1,111 | 97.0 | 26.6 |
| Georgia | 575 | 498 | 86.6 | 17.7 |
| Hawaii | 151 | 121 | 80.1 | 24.8 |
| Idaho | 9 | 9 | 100.0 | 11.1 |
| Illinois | 707 | 645 | 91.2 | 13.0 |
| Indiana | 115 | 115 | 100.0 | 20.0 |
| Iowa | 43 | 11 | 25.6 | -- |
| Kansas | 63 | 57 | 90.5 | 22.8 |
| Kentucky | 152 | 149 | 98.0 | 18.8 |
| Louisiana | 294 | 268 | 91.2 | 29.5 |
| Maine | 20 | 20 | 100.0 | 5.0 |
| Maryland | 262 | 257 | 98.1 | 5.8 |
| Massachusetts | 270 | 265 | 98.1 | 6.4 |
| Michigan | 330 | 315 | 95.5 | 11.1 |
| Minnesota | 239 | 237 | 99.2 | 6.8 |
| Mississippi | 154 | 126 | 81.8 | 31.7 |
| Missouri | 157 | 154 | 98.1 | 17.5 |
| Montana | 20 | 20 | 100.0 | 30.0 |
| Nebraska | 40 | 38 | 95.0 | 7.9 |
| Nevada | 96 | 95 | 99.0 | 10.5 |
| New Hampshire | 20 | 20 | 100.0 | 5.0 |
| New Jersey | 530 | 524 | 98.9 | 9.7 |
| New Mexico | 54 | 53 | 98.1 | 17.0 |
| New York State[2] | 415 | 373 | 89.9 | 8.3 |
| New York City | 1,261 | 850 | 67.4 | -- |
| North Carolina | 398 | 383 | 96.2 | 19.6 |
| North Dakota | 6 | 5 | 83.3 | 0.0 |
| Ohio | 306 | 300 | 98.0 | 14.3 |
| Oklahoma | 194 | 194 | 100.0 | 10.8 |
| Oregon | 123 | 119 | 96.7 | 17.6 |
| Pennsylvania | 350 | 287 | 82.0 | 10.1 |
| Rhode Island | 60 | 59 | 98.3 | 1.7 |
| South Carolina | 263 | 259 | 98.5 | 31.3 |
| South Dakota | 13 | 13 | 100.0 | 30.8 |
| Tennessee | 313 | 304 | 97.1 | 19.7 |
| Texas | 1,643 | 1,596 | 97.1 | 19.0 |
| Utah | 35 | 34 | 97.1 | 14.7 |
| Vermont | 7 | 7 | 100.0 | 0.0 |
| Virginia | 306 | 279 | 91.2 | 5.0 |
| Washington | 261 | 254 | 97.3 | 7.1 |
| West Virginia | 32 | 23 | 71.9 | -- |
| Wisconsin | 86 | 85 | 98.8 | 12.9 |
| Wyoming | 3 | 3 | 100.0 | 33.3 |
| American Samoa[3] | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... |
| Guam[3] | 63 | 63 | 100.0 | 1.6 |
| N. Mariana Islands[3] | 58 | 57 | 98.3 | 21.1 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 19.8 |
| Republic of Palau[3] | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... |

[1]Excess alcohol use within past 12 months. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 31. Tuberculosis Cases by Initial Drug Regimen: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases Alive at Diagnosis | Cases with Information on Initial Drug Regimen | | Percent of Cases with Initial Drug Regimen[1,2] | | |
|---|---|---|---|---|---|---|---|
| | | | No. | % | IR | IRZ | IRZ,E/S |
| **United States** | **15,989** | **15,614** | **15,541** | **99.5** | **1.6** | **9.4** | **78.8** |
| Alabama | 265 | 255 | 255 | 100.0 | 0.8 | 65.5 | 27.8 |
| Alaska | 54 | 53 | 53 | 100.0 | 0.0 | 7.5 | 92.5 |
| Arizona | 289 | 283 | 283 | 100.0 | 0.0 | 7.4 | 83.0 |
| Arkansas | 162 | 158 | 149 | 94.3 | 26.8 | 40.9 | 26.8 |
| California | 3,332 | 3,281 | 3,276 | 99.8 | 0.9 | 4.7 | 87.1 |
| Colorado | 138 | 136 | 136 | 100.0 | 0.7 | 2.2 | 86.8 |
| Connecticut | 121 | 118 | 118 | 100.0 | 2.5 | 9.3 | 82.2 |
| Delaware | 33 | 33 | 33 | 100.0 | 0.0 | 9.1 | 84.8 |
| District of Columbia | 74 | 73 | 73 | 100.0 | 0.0 | 8.2 | 82.2 |
| Florida | 1,145 | 1,107 | 1,107 | 100.0 | 0.9 | 7.3 | 82.5 |
| Georgia | 575 | 561 | 557 | 99.3 | 0.4 | 9.0 | 80.4 |
| Hawaii | 151 | 147 | 146 | 99.3 | 4.1 | 11.0 | 71.2 |
| Idaho | 9 | 9 | 9 | 100.0 | 11.1 | 0.0 | 77.8 |
| Illinois | 707 | 693 | 691 | 99.7 | 1.0 | 9.4 | 78.7 |
| Indiana | 115 | 107 | 107 | 100.0 | 0.9 | 19.6 | 74.8 |
| Iowa | 43 | 40 | 39 | 97.5 | 0.0 | 25.6 | 69.2 |
| Kansas | 63 | 58 | 58 | 100.0 | 6.9 | 6.9 | 74.1 |
| Kentucky | 152 | 148 | 148 | 100.0 | 3.4 | 12.8 | 77.0 |
| Louisiana | 294 | 282 | 278 | 98.6 | 0.7 | 16.9 | 76.6 |
| Maine | 20 | 20 | 19 | 95.0 | 0.0 | 15.8 | 68.4 |
| Maryland | 262 | 253 | 253 | 100.0 | 0.0 | 2.8 | 93.7 |
| Massachusetts | 270 | 267 | 266 | 99.6 | 1.1 | 6.8 | 84.2 |
| Michigan | 330 | 319 | 319 | 100.0 | 6.0 | 25.7 | 61.4 |
| Minnesota | 239 | 238 | 238 | 100.0 | 0.4 | 10.5 | 84.5 |
| Mississippi | 154 | 150 | 146 | 97.3 | 0.7 | 11.0 | 83.6 |
| Missouri | 157 | 152 | 152 | 100.0 | 1.3 | 7.2 | 81.6 |
| Montana | 20 | 19 | 18 | 94.7 | 0.0 | 22.2 | 72.2 |
| Nebraska | 40 | 36 | 36 | 100.0 | 2.8 | 22.2 | 55.6 |
| Nevada | 96 | 93 | 93 | 100.0 | 0.0 | 1.1 | 94.6 |
| New Hampshire | 20 | 20 | 19 | 95.0 | 0.0 | 10.5 | 89.5 |
| New Jersey | 530 | 520 | 517 | 99.4 | 2.3 | 8.7 | 76.8 |
| New Mexico | 54 | 50 | 50 | 100.0 | 0.0 | 38.0 | 60.0 |
| New York State[3] | 415 | 406 | 406 | 100.0 | 0.5 | 6.7 | 86.7 |
| New York City | 1,261 | 1,236 | 1,236 | 100.0 | 0.7 | 3.2 | 77.1 |
| North Carolina | 398 | 389 | 389 | 100.0 | 0.3 | 2.6 | 88.2 |
| North Dakota | 6 | 6 | 6 | 100.0 | 0.0 | 16.7 | 83.3 |
| Ohio | 306 | 300 | 299 | 99.7 | 2.3 | 25.8 | 62.2 |
| Oklahoma | 194 | 187 | 186 | 99.5 | 11.8 | 20.4 | 53.8 |
| Oregon | 123 | 122 | 122 | 100.0 | 0.8 | 7.4 | 87.7 |
| Pennsylvania | 350 | 339 | 330 | 97.3 | 0.6 | 7.6 | 70.3 |
| Rhode Island | 60 | 60 | 60 | 100.0 | 1.7 | 3.3 | 80.0 |
| South Carolina | 263 | 254 | 254 | 100.0 | 0.8 | 13.4 | 78.7 |
| South Dakota | 13 | 12 | 12 | 100.0 | 8.3 | 16.7 | 75.0 |
| Tennessee | 313 | 299 | 299 | 100.0 | 1.0 | 14.7 | 77.3 |
| Texas | 1,643 | 1,611 | 1,599 | 99.3 | 2.6 | 7.6 | 72.3 |
| Utah | 35 | 34 | 34 | 100.0 | 0.0 | 5.9 | 85.3 |
| Vermont | 7 | 7 | 7 | 100.0 | 0.0 | 14.3 | 85.7 |
| Virginia | 306 | 301 | 291 | 96.7 | 1.7 | 6.2 | 84.9 |
| Washington | 261 | 258 | 255 | 98.8 | 1.6 | 5.9 | 85.5 |
| West Virginia | 32 | 29 | 29 | 100.0 | 0.0 | 20.7 | 72.4 |
| Wisconsin | 86 | 82 | 82 | 100.0 | 1.2 | 12.2 | 80.5 |
| Wyoming | 3 | 3 | 3 | 100.0 | 0.0 | 33.3 | 66.7 |
| American Samoa[4] | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[4] | ... | ... | ... | ... | ... | ... | ... |
| Guam[4] | 63 | 62 | 61 | 98.4 | 0.0 | 1.6 | 88.5 |
| N. Mariana Islands[4] | 58 | 57 | 57 | 100.0 | 1.8 | 1.8 | 89.5 |
| Puerto Rico[4] | 121 | 110 | 110 | 100.0 | 0.0 | 0.0 | 98.2 |
| Republic of Palau[4] | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[4] | ... | ... | ... | ... | ... | ... | ... |

[1]Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]I=isoniazid; R=rifampin; Z=pyrazinamide; E=ethambutol; S=streptomycin.

[3]Excludes New York City.

[4]Not included in U.S. totals.

Ellipses indicate data not available.

**Note:** Excluding cases with no information on initial drug regimen, 279 (1.8%) were not started on any drugs, 15 (0.1%) were started on one drug, and 1,284 (8.3%) had an initial multidrug regimen other than IR, IRZ, or IRZ,E/S.

## Table 32. Isoniazid-Resistant Tuberculosis Cases with or without Rifampin Resistance: 59 Reporting Areas, 2001

| Reporting Area | Total Culture Positive Cases | Cases with Initial Drug Susceptibility Testing Performed | | Resistance[1] | | | |
|---|---|---|---|---|---|---|---|
| | | | | Isoniazid | | Isoniazid and Rifampin | |
| | | No. | % | No. | % | No. | % |
| **United States** | **12,780** | **11,787** | **92.2** | **870** | **7.4** | **145** | **1.2** |
| Alabama | 224 | 201 | 89.7 | 15 | 7.5 | 1 | 0.5 |
| Alaska | 45 | 45 | 100.0 | 2 | 4.4 | 0 | 0.0 |
| Arizona | 228 | 223 | 97.8 | 12 | 5.4 | 3 | 1.3 |
| Arkansas | 115 | 104 | 90.4 | 4 | 3.8 | 0 | 0.0 |
| California | 2,602 | 2,443 | 93.9 | 220 | 9.0 | 27 | 1.1 |
| Colorado | 103 | 103 | 100.0 | 10 | 9.7 | 2 | 1.9 |
| Connecticut | 111 | 106 | 95.5 | 7 | 6.6 | 1 | 0.9 |
| Delaware | 24 | 24 | 100.0 | 3 | 12.5 | 0 | 0.0 |
| District of Columbia | 61 | 53 | 86.9 | 4 | 7.5 | 0 | 0.0 |
| Florida | 953 | 894 | 93.8 | 87 | 9.7 | 6 | 0.7 |
| Georgia | 454 | 405 | 89.2 | 26 | 6.4 | 2 | 0.5 |
| Hawaii | 124 | 111 | 89.5 | 7 | 6.3 | 1 | 0.9 |
| Idaho | 7 | 7 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| Illinois | 561 | 510 | 90.9 | 40 | 7.8 | 5 | 1.0 |
| Indiana | 93 | 93 | 100.0 | 3 | 3.2 | 0 | 0.0 |
| Iowa | 34 | 25 | 73.5 | -- | -- | -- | -- |
| Kansas | 50 | 46 | 92.0 | 4 | 8.7 | 2 | 4.3 |
| Kentucky | 133 | 127 | 95.5 | 6 | 4.7 | 3 | 2.4 |
| Louisiana | 241 | 196 | 81.3 | 4 | 2.0 | 0 | 0.0 |
| Maine | 10 | 9 | 90.0 | 1 | 11.1 | 0 | 0.0 |
| Maryland | 220 | 201 | 91.4 | 13 | 6.5 | 2 | 1.0 |
| Massachusetts | 219 | 213 | 97.3 | 16 | 7.5 | 5 | 2.3 |
| Michigan | 248 | 236 | 95.2 | 11 | 4.7 | 7 | 3.0 |
| Minnesota | 194 | 191 | 98.5 | 23 | 12.0 | 4 | 2.1 |
| Mississippi | 114 | 105 | 92.1 | 7 | 6.7 | 2 | 1.9 |
| Missouri | 126 | 122 | 96.8 | 5 | 4.1 | 1 | 0.8 |
| Montana | 16 | 15 | 93.8 | 0 | 0.0 | 0 | 0.0 |
| Nebraska | 40 | 35 | 87.5 | 1 | 2.9 | 0 | 0.0 |
| Nevada | 82 | 72 | 87.8 | 5 | 6.9 | 1 | 1.4 |
| New Hampshire | 17 | 17 | 100.0 | 2 | 11.8 | 0 | 0.0 |
| New Jersey | 442 | 423 | 95.7 | 40 | 9.5 | 8 | 1.9 |
| New Mexico | 49 | 49 | 100.0 | 4 | 8.2 | 0 | 0.0 |
| New York State[2] | 287 | 284 | 99.0 | 25 | 8.8 | 6 | 2.1 |
| New York City | 972 | 903 | 92.9 | 85 | 9.4 | 26 | 2.9 |
| North Carolina | 331 | 319 | 96.4 | 9 | 2.8 | 1 | 0.3 |
| North Dakota | 5 | 5 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| Ohio | 242 | 236 | 97.5 | 10 | 4.2 | 0 | 0.0 |
| Oklahoma | 149 | 136 | 91.3 | 9 | 6.6 | 0 | 0.0 |
| Oregon | 103 | 103 | 100.0 | 8 | 7.8 | 1 | 1.0 |
| Pennsylvania | 304 | 255 | 83.9 | 24 | 9.4 | 6 | 2.4 |
| Rhode Island | 34 | 34 | 100.0 | 5 | 14.7 | 0 | 0.0 |
| South Carolina | 194 | 184 | 94.8 | 3 | 1.6 | 1 | 0.5 |
| South Dakota | 12 | 12 | 100.0 | 1 | 8.3 | 0 | 0.0 |
| Tennessee | 251 | 231 | 92.0 | 9 | 3.9 | 0 | 0.0 |
| Texas | 1,329 | 1,203 | 90.5 | 53 | 4.4 | 10 | 0.8 |
| Utah | 27 | 27 | 100.0 | 2 | 7.4 | 0 | 0.0 |
| Vermont | 7 | 7 | 100.0 | 1 | 14.3 | 0 | 0.0 |
| Virginia | 261 | 121 | 46.4 | -- | -- | -- | -- |
| Washington | 227 | 218 | 96.0 | 23 | 10.6 | 5 | 2.3 |
| West Virginia | 31 | 31 | 100.0 | 4 | 12.9 | 0 | 0.0 |
| Wisconsin | 71 | 71 | 100.0 | 5 | 7.0 | 2 | 2.8 |
| Wyoming | 3 | 3 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| American Samoa[3] | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... | ... | ... | ... |
| Guam[3] | 43 | 40 | 93.0 | 8 | 20.0 | 4 | 10.0 |
| N. Mariana Islands[3] | 32 | 30 | 93.8 | 7 | 23.3 | 4 | 13.3 |
| Puerto Rico[3] | 109 | 100 | 91.7 | 8 | 8.0 | 2 | 2.0 |
| Republic of Palau[3] | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... | ... | ... | ... |

[1]Isolates may be resistant to other drugs. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 33. Tuberculosis Cases, Aged 25 - 44, by HIV Status: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on HIV Status[1] No. | % | Percent of Cases in HIV-Positive Persons[2] |
|---|---|---|---|---|
| **United States** | **5,630** | **3,254** | **57.8** | **--** |
| Alabama | 69 | 66 | 95.7 | 16.7 |
| Alaska | 17 | 10 | 58.8 | -- |
| Arizona | 88 | 71 | 80.7 | 11.3 |
| Arkansas | 39 | 36 | 92.3 | 13.9 |
| California | 1,109 | 0 | 0.0 | -- |
| Colorado | 44 | 42 | 95.5 | 4.8 |
| Connecticut | 47 | 37 | 78.7 | 24.3 |
| Delaware | 12 | 8 | 66.7 | -- |
| District of Columbia | 17 | 17 | 100.0 | 47.1 |
| Florida | 448 | 394 | 87.9 | 39.6 |
| Georgia | 233 | 205 | 88.0 | 25.9 |
| Hawaii | 30 | 2 | 6.7 | -- |
| Idaho | 2 | 0 | 0.0 | -- |
| Illinois | 259 | 166 | 64.1 | -- |
| Indiana | 40 | 22 | 55.0 | -- |
| Iowa | 10 | 5 | 50.0 | -- |
| Kansas | 19 | 9 | 47.4 | -- |
| Kentucky | 42 | 29 | 69.0 | -- |
| Louisiana | 91 | 76 | 83.5 | 21.1 |
| Maine | 9 | 8 | 88.9 | 25.0 |
| Maryland | 110 | 93 | 84.5 | 19.4 |
| Massachusetts | 122 | 65 | 53.3 | -- |
| Michigan | 110 | 68 | 61.8 | -- |
| Minnesota | 91 | 74 | 81.3 | 5.4 |
| Mississippi | 43 | 30 | 69.8 | -- |
| Missouri | 48 | 40 | 83.3 | 15.0 |
| Montana | 5 | 2 | 40.0 | -- |
| Nebraska | 17 | 9 | 52.9 | -- |
| Nevada | 30 | 27 | 90.0 | 18.5 |
| New Hampshire | 6 | 6 | 100.0 | 0.0 |
| New Jersey | 225 | 123 | 54.7 | -- |
| New Mexico | 10 | 7 | 70.0 | -- |
| New York State[3] | 136 | 103 | 75.7 | 16.5 |
| New York City | 544 | 277 | 50.9 | -- |
| North Carolina | 133 | 115 | 86.5 | 25.2 |
| North Dakota | 0 | 0 | 0.0 | -- |
| Ohio | 77 | 52 | 67.5 | -- |
| Oklahoma | 52 | 46 | 88.5 | 17.4 |
| Oregon | 49 | 43 | 87.8 | 16.3 |
| Pennsylvania | 116 | 65 | 56.0 | -- |
| Rhode Island | 17 | 15 | 88.2 | 20.0 |
| South Carolina | 81 | 79 | 97.5 | 15.2 |
| South Dakota | 5 | 4 | 80.0 | 0.0 |
| Tennessee | 104 | 93 | 89.4 | 36.6 |
| Texas | 594 | 420 | 70.7 | -- |
| Utah | 10 | 7 | 70.0 | -- |
| Vermont | 2 | 1 | 50.0 | -- |
| Virginia | 129 | 80 | 62.0 | -- |
| Washington | 91 | 70 | 76.9 | 5.7 |
| West Virginia | 12 | 7 | 58.3 | -- |
| Wisconsin | 35 | 29 | 82.9 | 17.2 |
| Wyoming | 1 | 1 | 100.0 | 0.0 |
| American Samoa[4] | ... | ... | ... | ... |
| Fed. States of Micronesia[4] | ... | ... | ... | ... |
| Guam[4] | 27 | 2 | 7.4 | -- |
| N. Mariana Islands[4] | 29 | 27 | 93.1 | 0.0 |
| Puerto Rico[4] | 30 | 29 | 96.7 | 65.5 |
| Republic of Palau[4] | ... | ... | ... | ... |
| U.S. Virgin Islands[4] | ... | ... | ... | ... |

[1]Includes only those cases with negative, positive, or indeterminate HIV test results.

[2]Percentages shown only for reporting areas with information reported for ≥75% of cases.

[3]Excludes New York City.

[4]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 34. Tuberculosis Cases by Occupation: 59 Reporting Areas, 2001

| Reporting Area | Total Cases | Cases with Information on Occupation | | Percent of Cases by Occupation | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | Unemployed Past 24 Mos. | Health Care Worker | Correctional Employee | Migrant Worker | Other Occupation | Multiple Occupations |
| **United States** | **15,989** | **14,776** | **92.4** | **56.6** | **2.8** | **0.1** | **1.5** | **38.9** | **0.1** |
| Alabama | 265 | 265 | 100.0 | 68.7 | 2.6 | 0.0 | 0.8 | 27.9 | 0.0 |
| Alaska | 54 | 22 | 40.7 | -- | -- | -- | -- | -- | -- |
| Arizona | 289 | 282 | 97.6 | 50.4 | 1.8 | 0.0 | 1.8 | 45.7 | 0.4 |
| Arkansas | 162 | 157 | 96.9 | 90.4 | 1.3 | 0.6 | 0.0 | 7.6 | 0.0 |
| California | 3,332 | 3,185 | 95.6 | 59.7 | 2.2 | 0.1 | 2.5 | 35.4 | 0.0 |
| Colorado | 138 | 138 | 100.0 | 52.9 | 3.6 | 0.0 | 3.6 | 39.1 | 0.7 |
| Connecticut | 121 | 112 | 92.6 | 50.9 | 1.8 | 0.0 | 0.0 | 46.4 | 0.9 |
| Delaware | 33 | 31 | 93.9 | 38.7 | 3.2 | 0.0 | 3.2 | 54.8 | 0.0 |
| District of Columbia | 74 | 74 | 100.0 | 77.0 | 0.0 | 1.4 | 0.0 | 21.6 | 0.0 |
| Florida | 1,145 | 1,131 | 98.8 | 45.4 | 2.1 | 0.3 | 4.2 | 47.7 | 0.4 |
| Georgia | 575 | 487 | 84.7 | 52.4 | 2.1 | 0.0 | 0.6 | 44.8 | 0.2 |
| Hawaii | 151 | 116 | 76.8 | 45.7 | 0.9 | 0.0 | 0.0 | 53.4 | 0.0 |
| Idaho | 9 | 9 | 100.0 | 44.4 | 0.0 | 0.0 | 11.1 | 44.4 | 0.0 |
| Illinois | 707 | 602 | 85.1 | 60.0 | 4.7 | 0.0 | 0.3 | 35.0 | 0.0 |
| Indiana | 115 | 115 | 100.0 | 47.0 | 0.0 | 0.0 | 0.9 | 52.2 | 0.0 |
| Iowa | 43 | 40 | 93.0 | 60.0 | 2.5 | 0.0 | 0.0 | 37.5 | 0.0 |
| Kansas | 63 | 55 | 87.3 | 41.8 | 1.8 | 0.0 | 0.0 | 56.4 | 0.0 |
| Kentucky | 152 | 149 | 98.0 | 67.8 | 2.0 | 0.7 | 2.7 | 26.8 | 0.0 |
| Louisiana | 294 | 277 | 94.2 | 61.0 | 1.1 | 0.0 | 0.4 | 37.5 | 0.0 |
| Maine | 20 | 20 | 100.0 | 45.0 | 5.0 | 0.0 | 0.0 | 50.0 | 0.0 |
| Maryland | 262 | 258 | 98.5 | 57.0 | 1.9 | 0.0 | 0.4 | 40.7 | 0.0 |
| Massachusetts | 270 | 257 | 95.2 | 47.9 | 6.6 | 0.0 | 1.2 | 44.4 | 0.0 |
| Michigan | 330 | 313 | 94.8 | 55.0 | 6.1 | 0.0 | 0.6 | 38.3 | 0.0 |
| Minnesota | 239 | 233 | 97.5 | 53.2 | 0.9 | 0.0 | 0.4 | 45.1 | 0.4 |
| Mississippi | 154 | 129 | 83.8 | 56.6 | 1.6 | 0.0 | 0.0 | 41.1 | 0.8 |
| Missouri | 157 | 155 | 98.7 | 59.4 | 5.2 | 0.0 | 0.0 | 35.5 | 0.0 |
| Montana | 20 | 19 | 95.0 | 57.9 | 5.3 | 0.0 | 0.0 | 36.8 | 0.0 |
| Nebraska | 40 | 38 | 95.0 | 36.8 | 5.3 | 0.0 | 0.0 | 57.9 | 0.0 |
| Nevada | 96 | 89 | 92.7 | 43.8 | 0.0 | 0.0 | 0.0 | 56.2 | 0.0 |
| New Hampshire | 20 | 19 | 95.0 | 36.8 | 15.8 | 0.0 | 0.0 | 47.4 | 0.0 |
| New Jersey | 530 | 526 | 99.2 | 57.0 | 3.0 | 0.0 | 0.2 | 39.7 | 0.0 |
| New Mexico | 54 | 53 | 98.1 | 69.8 | 3.8 | 0.0 | 0.0 | 26.4 | 0.0 |
| New York State[2] | 415 | 382 | 92.0 | 51.6 | 2.6 | 0.0 | 1.6 | 44.2 | 0.0 |
| New York City | 1,261 | 816 | 64.7 | -- | -- | -- | -- | -- | -- |
| North Carolina | 398 | 388 | 97.5 | 51.8 | 3.6 | 0.3 | 2.1 | 42.0 | 0.3 |
| North Dakota | 6 | 6 | 100.0 | 66.7 | 0.0 | 0.0 | 0.0 | 33.3 | 0.0 |
| Ohio | 306 | 304 | 99.3 | 58.9 | 3.0 | 0.0 | 0.0 | 37.8 | 0.3 |
| Oklahoma | 194 | 190 | 97.9 | 53.2 | 3.2 | 0.0 | 0.5 | 43.2 | 0.0 |
| Oregon | 123 | 121 | 98.4 | 52.9 | 4.1 | 0.0 | 8.3 | 33.9 | 0.8 |
| Pennsylvania | 350 | 281 | 80.3 | 60.5 | 4.3 | 0.0 | 0.4 | 34.5 | 0.4 |
| Rhode Island | 60 | 58 | 96.7 | 74.1 | 3.4 | 0.0 | 0.0 | 22.4 | 0.0 |
| South Carolina | 263 | 259 | 98.5 | 60.6 | 3.1 | 0.0 | 1.2 | 35.1 | 0.0 |
| South Dakota | 13 | 13 | 100.0 | 53.8 | 0.0 | 0.0 | 0.0 | 46.2 | 0.0 |
| Tennessee | 313 | 305 | 97.4 | 62.0 | 1.3 | 0.0 | 0.0 | 36.7 | 0.0 |
| Texas | 1,643 | 1,611 | 98.1 | 58.9 | 2.9 | 0.3 | 0.6 | 37.2 | 0.1 |
| Utah | 35 | 33 | 94.3 | 63.6 | 0.0 | 0.0 | 0.0 | 36.4 | 0.0 |
| Vermont | 7 | 7 | 100.0 | 85.7 | 0.0 | 0.0 | 0.0 | 14.3 | 0.0 |
| Virginia | 306 | 285 | 93.1 | 36.8 | 1.8 | 0.4 | 2.5 | 58.6 | 0.0 |
| Washington | 261 | 243 | 93.1 | 44.4 | 4.9 | 0.4 | 4.9 | 44.4 | 0.8 |
| West Virginia | 32 | 29 | 90.6 | 75.9 | 0.0 | 0.0 | 0.0 | 24.1 | 0.0 |
| Wisconsin | 86 | 86 | 100.0 | 55.8 | 4.7 | 0.0 | 0.0 | 39.5 | 0.0 |
| Wyoming | 3 | 3 | 100.0 | 33.3 | 0.0 | 0.0 | 0.0 | 66.7 | 0.0 |
| American Samoa[3] | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Guam[3] | 63 | 50 | 79.4 | 66.0 | 4.0 | 0.0 | 0.0 | 30.0 | 0.0 |
| N. Mariana Islands[3] | 58 | 57 | 98.3 | 17.5 | 0.0 | 0.0 | 0.0 | 82.5 | 0.0 |
| Puerto Rico[3] | 121 | 121 | 100.0 | 81.8 | 1.7 | 0.8 | 0.0 | 15.7 | 0.0 |
| Republic of Palau[3] | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... | ... | ... | ... | ... | ... |

[1]Occupation within past 24 months. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 35. Tuberculosis Cases by Type of Health Care Provider: 59 Reporting Areas, 1999

| Reporting Area | Total Cases | Cases Alive at Diagnosis | Cases with Information on Type of Health Care Provider | | Percent of Cases by Type of Health Care Provider[1] | | |
|---|---|---|---|---|---|---|---|
| | | | No. | % | Health Department | Private/Other | Both Health Department and Private/Other |
| **United States** | **17,504** | **16,965** | **16,692** | **98.4** | **46.5** | **25.9** | **27.6** |
| Alabama | 314 | 301 | 298 | 99.0 | 59.4 | 12.8 | 27.9 |
| Alaska | 61 | 61 | 61 | 100.0 | 32.8 | 3.3 | 63.9 |
| Arizona | 262 | 250 | 249 | 99.6 | 58.6 | 28.1 | 13.3 |
| Arkansas | 181 | 175 | 167 | 95.4 | 66.5 | 1.8 | 31.7 |
| California | 3,606 | 3,514 | 3,475 | 98.9 | 51.8 | 28.5 | 19.7 |
| Colorado | 88 | 86 | 86 | 100.0 | 72.1 | 9.3 | 18.6 |
| Connecticut | 121 | 120 | 120 | 100.0 | 40.8 | 56.7 | 2.5 |
| Delaware | 34 | 34 | 34 | 100.0 | 67.6 | 20.6 | 11.8 |
| District of Columbia | 70 | 67 | 67 | 100.0 | 49.3 | 26.9 | 23.9 |
| Florida | 1,275 | 1,227 | 1,216 | 99.1 | 59.4 | 15.5 | 25.1 |
| Georgia | 670 | 651 | 641 | 98.5 | 56.0 | 12.2 | 31.8 |
| Hawaii | 184 | 178 | 173 | 97.2 | 42.2 | 13.9 | 43.9 |
| Idaho | 16 | 16 | 13 | 81.3 | 23.1 | 53.8 | 23.1 |
| Illinois | 822 | 806 | 785 | 97.4 | 45.5 | 37.1 | 17.5 |
| Indiana | 150 | 147 | 147 | 100.0 | 6.1 | 6.8 | 87.1 |
| Iowa | 58 | 57 | 42 | 73.7 | -- | -- | -- |
| Kansas | 69 | 66 | 64 | 97.0 | 92.2 | 6.3 | 1.6 |
| Kentucky | 209 | 200 | 198 | 99.0 | 57.1 | 14.6 | 28.3 |
| Louisiana | 357 | 344 | 324 | 94.2 | 34.3 | 11.7 | 54.0 |
| Maine | 23 | 23 | 23 | 100.0 | 43.5 | 4.3 | 52.2 |
| Maryland | 292 | 285 | 285 | 100.0 | 80.0 | 7.7 | 12.3 |
| Massachusetts | 270 | 264 | 262 | 99.2 | 56.5 | 13.7 | 29.8 |
| Michigan | 349 | 334 | 332 | 99.4 | 33.4 | 27.1 | 39.5 |
| Minnesota | 201 | 198 | 198 | 100.0 | 53.0 | 45.5 | 1.5 |
| Mississippi | 215 | 208 | 207 | 99.5 | 69.6 | 3.9 | 26.6 |
| Missouri | 208 | 203 | 202 | 99.5 | 26.7 | 24.3 | 49.0 |
| Montana | 14 | 13 | 13 | 100.0 | 76.9 | 7.7 | 15.4 |
| Nebraska | 18 | 18 | 18 | 100.0 | 0.0 | 100.0 | 0.0 |
| Nevada | 93 | 92 | 88 | 95.7 | 81.8 | 12.5 | 5.7 |
| New Hampshire | 19 | 18 | 17 | 94.4 | 0.0 | 0.0 | 100.0 |
| New Jersey | 571 | 548 | 530 | 96.7 | 46.0 | 48.3 | 5.7 |
| New Mexico | 64 | 57 | 57 | 100.0 | 59.6 | 14.0 | 26.3 |
| New York State[2] | 376 | 363 | 353 | 97.2 | 44.5 | 35.1 | 20.4 |
| New York City | 1,448 | 1,413 | 1,387 | 98.2 | 32.6 | 24.3 | 43.1 |
| North Carolina | 488 | 477 | 473 | 99.2 | 37.0 | 10.4 | 52.6 |
| North Dakota | 7 | 7 | 7 | 100.0 | 0.0 | 28.6 | 71.4 |
| Ohio | 317 | 305 | 302 | 99.0 | 49.0 | 37.1 | 13.9 |
| Oklahoma | 208 | 197 | 187 | 94.9 | 89.8 | 6.4 | 3.7 |
| Oregon | 123 | 120 | 119 | 99.2 | 38.7 | 15.1 | 46.2 |
| Pennsylvania | 453 | 430 | 415 | 96.5 | 55.2 | 23.1 | 21.7 |
| Rhode Island | 53 | 53 | 52 | 98.1 | 88.5 | 11.5 | 0.0 |
| South Carolina | 315 | 302 | 299 | 99.0 | 75.3 | 10.7 | 14.0 |
| South Dakota | 21 | 19 | 19 | 100.0 | 52.6 | 0.0 | 47.4 |
| Tennessee | 382 | 371 | 371 | 100.0 | 22.1 | 12.4 | 65.5 |
| Texas | 1,639 | 1,585 | 1,556 | 98.2 | 21.7 | 51.9 | 26.4 |
| Utah | 40 | 36 | 36 | 100.0 | 38.9 | 2.8 | 58.3 |
| Vermont | 3 | 3 | 3 | 100.0 | 0.0 | 33.3 | 66.7 |
| Virginia | 334 | 325 | 325 | 100.0 | 43.7 | 47.1 | 9.2 |
| Washington | 258 | 250 | 248 | 99.2 | 50.0 | 21.4 | 28.6 |
| West Virginia | 42 | 40 | 40 | 100.0 | 15.0 | 22.5 | 62.5 |
| Wisconsin | 110 | 105 | 105 | 100.0 | 1.0 | 1.9 | 97.1 |
| Wyoming | 3 | 3 | 3 | 100.0 | 0.0 | 33.3 | 66.7 |
| American Samoa[3] | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[3] | ... | ... | ... | ... | ... | ... | ... |
| Guam[3] | 69 | 67 | 61 | 91.0 | 91.8 | 3.3 | 4.9 |
| N. Mariana Islands[3] | 66 | 64 | 63 | 98.4 | 98.4 | 0.0 | 1.6 |
| Puerto Rico[3] | 200 | 180 | 179 | 99.4 | 73.2 | 21.8 | 5.0 |
| Republic of Palau[3] | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[3] | ... | ... | ... | ... | ... | ... | ... |

[1]Health Department: All outpatient care provided by the state or local health department; Private/Other: All care (except contact investigation and dispensing of medication) provided by non-health department providers; Both Health Department and Private/Other: Both sectors involved in the care of the patient. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[2]Excludes New York City.

[3]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 36. Tuberculosis Cases by Directly Observed Therapy: 59 Reporting Areas, 1999

| Reporting Area | Total Cases | Cases with Initial Drug Regimen Prescribed[1] | Cases with Information on Directly Observed Therapy | | Percent of Cases by Administration of Therapy[2] | |
|---|---|---|---|---|---|---|
| | | | No. | % | DOT Only | Both DOT and Self-Administered |
| **United States** | **17,504** | **16,862** | **16,521** | **98.0** | **49.5** | **27.5** |
| Alabama | 314 | 301 | 298 | 99.0 | 64.1 | 32.9 |
| Alaska | 61 | 61 | 60 | 98.4 | 81.7 | 18.3 |
| Arizona | 262 | 249 | 249 | 100.0 | 65.5 | 12.9 |
| Arkansas | 181 | 171 | 164 | 95.9 | 46.3 | 14.0 |
| California | 3,606 | 3,486 | 3,427 | 98.3 | 47.4 | 21.7 |
| Colorado | 88 | 86 | 86 | 100.0 | 82.6 | 10.5 |
| Connecticut | 121 | 120 | 119 | 99.2 | 65.5 | 4.2 |
| Delaware | 34 | 34 | 34 | 100.0 | 67.6 | 17.6 |
| District of Columbia | 70 | 67 | 67 | 100.0 | 50.7 | 9.0 |
| Florida | 1,275 | 1,215 | 1,207 | 99.3 | 42.4 | 42.9 |
| Georgia | 670 | 648 | 623 | 96.1 | 58.6 | 30.3 |
| Hawaii | 184 | 178 | 173 | 97.2 | 38.7 | 38.7 |
| Idaho | 16 | 16 | 14 | 87.5 | 64.3 | 21.4 |
| Illinois | 822 | 799 | 779 | 97.5 | 52.8 | 10.7 |
| Indiana | 150 | 147 | 147 | 100.0 | 56.5 | 13.6 |
| Iowa | 58 | 57 | 52 | 91.2 | 32.7 | 30.8 |
| Kansas | 69 | 66 | 64 | 97.0 | 73.4 | 18.8 |
| Kentucky | 209 | 198 | 196 | 99.0 | 53.1 | 31.6 |
| Louisiana | 357 | 340 | 315 | 92.6 | 61.9 | 26.3 |
| Maine | 23 | 23 | 23 | 100.0 | 78.3 | 0.0 |
| Maryland | 292 | 285 | 285 | 100.0 | 89.1 | 3.2 |
| Massachusetts | 270 | 262 | 260 | 99.2 | 31.9 | 21.9 |
| Michigan | 349 | 333 | 332 | 99.7 | 28.6 | 31.9 |
| Minnesota | 201 | 198 | 198 | 100.0 | 40.9 | 36.4 |
| Mississippi | 215 | 208 | 208 | 100.0 | 98.1 | 1.9 |
| Missouri | 208 | 201 | 196 | 97.5 | 65.3 | 24.0 |
| Montana | 14 | 13 | 13 | 100.0 | 84.6 | 7.7 |
| Nebraska | 18 | 18 | 18 | 100.0 | 22.2 | 22.2 |
| Nevada | 93 | 90 | 86 | 95.6 | 36.0 | 9.3 |
| New Hampshire | 19 | 18 | 18 | 100.0 | 55.6 | 38.9 |
| New Jersey | 571 | 546 | 528 | 96.7 | 9.5 | 47.2 |
| New Mexico | 64 | 57 | 57 | 100.0 | 57.9 | 17.5 |
| New York State[2] | 376 | 363 | 360 | 99.2 | 52.8 | 33.1 |
| New York City | 1,448 | 1,400 | 1,370 | 97.9 | 1.8 | 62.6 |
| North Carolina | 488 | 477 | 473 | 99.2 | 67.0 | 28.1 |
| North Dakota | 7 | 7 | 7 | 100.0 | 28.6 | 28.6 |
| Ohio | 317 | 301 | 300 | 99.7 | 54.7 | 14.7 |
| Oklahoma | 208 | 197 | 191 | 97.0 | 86.4 | 7.9 |
| Oregon | 123 | 119 | 118 | 99.2 | 61.0 | 11.9 |
| Pennsylvania | 453 | 428 | 403 | 94.2 | 53.3 | 20.6 |
| Rhode Island | 53 | 53 | 53 | 100.0 | 94.3 | 1.9 |
| South Carolina | 315 | 302 | 299 | 99.0 | 81.3 | 7.0 |
| South Dakota | 21 | 19 | 19 | 100.0 | 73.7 | 5.3 |
| Tennessee | 382 | 371 | 370 | 99.7 | 38.9 | 47.0 |
| Texas | 1,639 | 1,576 | 1,505 | 95.5 | 65.8 | 28.6 |
| Utah | 40 | 36 | 36 | 100.0 | 86.1 | 5.6 |
| Vermont | 3 | 3 | 3 | 100.0 | 100.0 | 0.0 |
| Virginia | 334 | 323 | 322 | 99.7 | 61.2 | 6.8 |
| Washington | 258 | 248 | 248 | 100.0 | 64.9 | 13.7 |
| West Virginia | 42 | 40 | 40 | 100.0 | 15.0 | 20.0 |
| Wisconsin | 110 | 105 | 105 | 100.0 | 59.0 | 19.0 |
| Wyoming | 3 | 3 | 3 | 100.0 | 0.0 | 66.7 |
| American Samoa[4] | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[4] | ... | ... | ... | ... | ... | ... |
| Guam[4] | 69 | 67 | 61 | 91.0 | 1.6 | 98.4 |
| N. Mariana Islands[4] | 66 | 63 | 63 | 100.0 | 98.4 | 1.6 |
| Puerto Rico[4] | 200 | 177 | 176 | 99.4 | 64.2 | 1.7 |
| Republic of Palau[4] | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[4] | ... | ... | ... | ... | ... | ... |

[1]Includes patients alive at diagnosis with an initial drug regimen of one or more drugs prescribed.

[2]Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information reported for ≥75% of cases.

[3]Excludes New York City.

[4]Not included in U.S. totals.

Ellipses indicate data not available.

## Table 37. Completion of Tuberculosis Therapy (COT): 59 Reporting Areas, 1999

| Reporting Area | Total Cases | Therapy ≤1 Year Indicated[1] | | | Therapy >1 Year Indicated[2] | | Overall | |
|---|---|---|---|---|---|---|---|---|
| | | No.[3] | COT ≤1 Year(%) | COT(%) | No.[3] | COT(%) | No.[3] | COT(%) |
| **United States** | **17,504** | **15,208** | **79.9** | **92.0** | **221** | **76.9** | **15,429** | **91.8** |
| Alabama | 314 | 260 | 80.4 | 94.6 | 1 | 100.0 | 261 | 94.6 |
| Alaska | 61 | 59 | 88.1 | 94.9 | 0 | ... | 59 | 94.9 |
| Arizona | 262 | 231 | 82.7 | 95.7 | 3 | 100.0 | 234 | 95.7 |
| Arkansas | 181 | 156 | 82.7 | 89.7 | 0 | ... | 156 | 89.7 |
| California | 3,606 | 3,187 | 79.1 | 92.2 | 52 | 73.1 | 3,239 | 91.9 |
| Colorado | 88 | 80 | 88.8 | 96.3 | 2 | 100.0 | 82 | 96.3 |
| Connecticut | 121 | 108 | 78.7 | 95.4 | 3 | 66.7 | 111 | 94.6 |
| Delaware | 34 | 30 | 83.3 | 93.3 | 0 | ... | 30 | 93.3 |
| District of Columbia | 70 | 57 | 84.2 | 91.2 | 2 | 50.0 | 59 | 89.8 |
| Florida | 1,275 | 1,076 | 83.8 | 94.6 | 17 | 100.0 | 1,093 | 94.7 |
| Georgia | 670 | 594 | 77.3 | 88.7 | 7 | 71.4 | 601 | 88.5 |
| Hawaii | 184 | 168 | 67.3 | 85.1 | 2 | 0.0 | 170 | 84.1 |
| Idaho | 16 | 13 | 76.9 | 76.9 | 0 | ... | 13 | 76.9 |
| Illinois | 822 | 700 | 81.3 | 90.1 | 8 | 100.0 | 708 | 90.3 |
| Indiana | 150 | 133 | 79.7 | 93.2 | 3 | 100.0 | 136 | 93.4 |
| Iowa | 58 | 54 | 81.5 | 87.0 | 1 | 100.0 | 55 | 87.3 |
| Kansas | 69 | 62 | 80.6 | 90.3 | 3 | 100.0 | 65 | 90.8 |
| Kentucky | 209 | 177 | 80.2 | 93.2 | 2 | 50.0 | 179 | 92.7 |
| Louisiana | 357 | 311 | 74.6 | 84.2 | 0 | ... | 311 | 84.2 |
| Maine | 23 | 19 | 94.7 | 94.7 | 0 | ... | 19 | 94.7 |
| Maryland | 292 | 256 | 86.3 | 93.4 | 7 | 57.1 | 263 | 92.4 |
| Massachusetts | 270 | 247 | 80.6 | 91.5 | 2 | 100.0 | 249 | 91.6 |
| Michigan | 349 | 293 | 83.6 | 96.9 | 8 | 87.5 | 301 | 96.7 |
| Minnesota | 201 | 184 | 87.5 | 96.2 | 5 | 80.0 | 189 | 95.8 |
| Mississippi | 215 | 187 | 84.0 | 94.1 | 0 | ... | 187 | 94.1 |
| Missouri | 208 | 174 | 79.3 | 93.1 | 2 | 100.0 | 176 | 93.2 |
| Montana | 14 | 10 | 90.0 | 90.0 | 0 | ... | 10 | 90.0 |
| Nebraska | 18 | 18 | 55.6 | 83.3 | 0 | ... | 18 | 83.3 |
| Nevada | 93 | 81 | 77.8 | 82.7 | 1 | 100.0 | 82 | 82.9 |
| New Hampshire | 19 | 17 | 94.1 | 94.1 | 0 | ... | 17 | 94.1 |
| New Jersey | 571 | 492 | 71.5 | 90.7 | 6 | 83.3 | 498 | 90.6 |
| New Mexico | 64 | 48 | 87.5 | 97.9 | 0 | ... | 48 | 97.9 |
| New York State[4] | 376 | 332 | 74.1 | 89.8 | 2 | 100.0 | 334 | 89.8 |
| New York City | 1,448 | 1,249 | 81.5 | 90.7 | 32 | 53.1 | 1,281 | 89.8 |
| North Carolina | 488 | 431 | 88.6 | 95.6 | 7 | 85.7 | 438 | 95.4 |
| North Dakota | 7 | 7 | 57.1 | 100.0 | 0 | ... | 7 | 100.0 |
| Ohio | 317 | 262 | 71.4 | 90.1 | 1 | 100.0 | 263 | 90.1 |
| Oklahoma | 208 | 180 | 73.9 | 90.6 | 1 | 100.0 | 181 | 90.6 |
| Oregon | 123 | 114 | 78.1 | 89.5 | 1 | 100.0 | 115 | 89.6 |
| Pennsylvania | 453 | 370 | 75.7 | 91.1 | 8 | 75.0 | 378 | 90.7 |
| Rhode Island | 53 | 44 | 68.2 | 93.2 | 1 | 100.0 | 45 | 93.3 |
| South Carolina | 315 | 264 | 69.7 | 92.0 | 0 | ... | 264 | 92.0 |
| South Dakota | 21 | 17 | 82.4 | 94.1 | 0 | ... | 17 | 94.1 |
| Tennessee | 382 | 319 | 84.0 | 95.9 | 2 | 100.0 | 321 | 96.0 |
| Texas | 1,639 | 1,439 | 79.8 | 92.0 | 19 | 78.9 | 1,458 | 91.8 |
| Utah | 40 | 34 | 73.5 | 88.2 | 0 | ... | 34 | 88.2 |
| Vermont | 3 | 2 | 50.0 | 100.0 | 0 | ... | 2 | 100.0 |
| Virginia | 334 | 292 | 85.3 | 88.7 | 4 | 100.0 | 296 | 88.9 |
| Washington | 258 | 235 | 81.3 | 93.6 | 3 | 66.7 | 238 | 93.3 |
| West Virginia | 42 | 36 | 66.7 | 94.4 | 0 | ... | 36 | 94.4 |
| Wisconsin | 110 | 96 | 86.5 | 97.9 | 3 | 66.7 | 99 | 97.0 |
| Wyoming | 3 | 3 | 100.0 | 100.0 | 0 | ... | 3 | 100.0 |
| American Samoa[5] | ... | ... | ... | ... | ... | ... | ... | ... |
| Fed. States of Micronesia[5] | ... | ... | ... | ... | ... | ... | ... | ... |
| Guam[5] | 69 | 65 | -- | -- | 0 | ... | 65 | -- |
| N. Mariana Islands[5] | 66 | 62 | 82.3 | 83.9 | 0 | ... | 62 | 83.9 |
| Puerto Rico[5] | 200 | 148 | 82.4 | 94.6 | 1 | 100.0 | 149 | 94.6 |
| Republic of Palau[5] | ... | ... | ... | ... | ... | ... | ... | ... |
| U.S. Virgin Islands[5] | ... | ... | ... | ... | ... | ... | ... | ... |

[1]Initial isolate susceptible to rifampin (n=11,516) or susceptibility unknown (n=328); culture-negative (n=2,541); culture status unknown (n=822); age unknown (n=1).

[2]Initial isolate rifampin resistant, or pediatric (aged <15) case with meningeal, bone or joint, or miliary disease.

[3]Number of cases in persons alive at diagnosis, with initial drug regimen of one or more drugs prescribed, who did not die during therapy. Percentage for U.S. based on 52 reporting areas (50 states, New York City, and the District of Columbia). Percentages shown only for reporting areas with information on reason therapy stopped reported for ≥90% of cases.

[4]Excludes New York City.

[5]Not included in U.S. totals.

Ellipses indicate data not available.

**Note:** See Technical Notes (Appendix A) for description of COT calculation.

## Table 38. Tuberculosis Cases in Selected Cities: 2001 and 2000

| City | Cases[1] 2001 | 2000 |
|---|---|---|
| Albuquerque, NM | 9 | 7 |
| Anaheim, Calif | 45 | 38 |
| Arlington, Tex | 24 | 20 |
| Atlanta, Ga | 120 | 127 |
| Austin, Tex | 77 | 65 |
| Baltimore, Md | 60 | 67 |
| Birmingham, Ala | 45 | 50 |
| Boston, Mass | 75 | 82 |
| Buffalo, NY | 8 | 10 |
| Charlotte, NC | 39 | 64 |
| Chicago, Ill | 377 | 400 |
| Cincinnati, Ohio | 16 | 22 |
| Cleveland, Ohio | 49 | 68 |
| Colorado Springs, Colo | 6 | 6 |
| Columbus, Ohio | 64 | 71 |
| Corpus Christi, Tex | 24 | 23 |
| Dallas, Tex | 194 | 142 |
| Denver, Colo | 55 | 40 |
| Detroit, Mich | 109 | 111 |
| El Paso, Tex | 60 | 52 |
| Fort Worth, Tex | 74 | 62 |
| Fresno, Calif | 69 | 68 |
| Honolulu, Hawaii | 63 | 59 |
| Houston, Tex | 392 | 364 |
| Indianapolis, Ind | 35 | 37 |
| Jacksonville, Fla | 88 | 102 |
| Kansas City, Mo | 30 | 42 |
| Las Vegas, Nev | 64 | 65 |
| Long Beach, Calif | 50 | 63 |
| Los Angeles, Calif | 420 | 443 |
| Louisville, Ky | 29 | 27 |
| Memphis, Tenn | 76 | 78 |
| Mesa, Ariz | 19 | 14 |
| Miami, Fla | 134 | 98 |
| Milwaukee, Wis | 28 | 37 |
| Minneapolis, Minn | 102 | 80 |
| Nashville, Tenn | 60 | 70 |
| Newark, NJ | 64 | 73 |
| New Orleans, La | 63 | 97 |
| New York, NY | 1,261 | 1,332 |
| Norfolk, Va | 8 | 12 |
| Oakland, Calif | 71 | 101 |
| Oklahoma City, Okla | 51 | 44 |
| Omaha, Neb | 18 | 9 |
| Philadelphia, Pa | 143 | 159 |
| Phoenix, Ariz | 100 | 104 |
| Pittsburgh, Pa | 18 | 9 |
| Portland, Ore | 44 | 43 |
| Sacramento, Calif | 98 | 93 |
| St. Louis, Mo | 38 | 47 |
| St. Paul, Minn | 38 | 19 |
| San Antonio, Tex | 76 | 84 |
| San Diego, Calif | 202 | 169 |
| San Francisco, Calif | 182 | 170 |
| San Jose, Calif | 137 | 150 |
| Santa Ana, Calif | 61 | 49 |
| Seattle, Wash | 79 | 77 |
| Tampa, Fla | 60 | 64 |
| Toledo, Ohio | 9 | 6 |
| Tucson, Ariz | 35 | 22 |
| Tulsa, Okla | 22 | 16 |
| Virginia Beach, Va | 5 | 14 |
| Washington, DC | 74 | 85 |
| Wichita, Kan | 23 | 25 |
| **Total - 64 Cities** | **6,169** | **6,247** |
| San Juan, Puerto Rico | 9 | 32 |

[1]Case counts are based on verified cases in persons residing within city limits. Residence within city limits was determined by the health department.

## Table 39. Tuberculosis Cases and Case Rates per 100,000 Population: Metropolitan Statistical Areas with ≥500,000 Population, 2001 and 2000

| Metropolitan Statistical Area | Cases | | Case Rates | | Population Estimates |
|---|---|---|---|---|---|
| | 2001 | 2000 | 2001 | 2000 | 2001 |
| Akron, Ohio | 19 | 16 | 2.7 | 2.3 | 696,960 |
| Albany-Schenectady, NY | 17 | 29 | 1.9 | 3.3 | 877,895 |
| Albuquerque, NM | 12 | 6 | 1.7 | 0.8 | 723,296 |
| Allentown, Pa | 14 | 15 | 2.2 | 2.4 | 643,489 |
| Ann Arbor, Mich | 7 | 14 | 1.2 | 2.4 | 590,910 |
| Atlanta, Ga | 313 | 403 | 7.3 | 9.8 | 4,262,584 |
| Austin, Tex | 105 | 81 | 8.0 | 6.5 | 1,313,231 |
| Bakersfield, Calif | 49 | 49 | 7.2 | 7.4 | 676,367 |
| Baltimore, Md | 116 | 119 | 4.5 | 4.7 | 2,572,945 |
| Baton Rouge, La | 20 | 22 | 3.3 | 3.6 | 607,523 |
| Bergen-Passaic, NJ | 86 | 78 | 6.2 | 5.7 | 1,377,757 |
| Birmingham, Ala | 70 | 80 | 7.5 | 8.7 | 928,108 |
| Boston, Mass | 261 | 276 | 4.3 | 4.6 | 6,099,037 |
| Buffalo, NY | 23 | 20 | 2.0 | 1.7 | 1,162,917 |
| Charleston, SC | 32 | 38 | 5.8 | 6.9 | 554,831 |
| Charlotte, NC | 75 | 104 | 4.9 | 6.9 | 1,544,944 |
| Chicago, Ill | 625 | 657 | 7.5 | 7.9 | 8,342,190 |
| Cincinnati, Ohio | 31 | 44 | 1.9 | 2.7 | 1,657,508 |
| Cleveland, Ohio | 79 | 108 | 3.5 | 4.8 | 2,245,681 |
| Colorado Springs, Colo | 7 | 7 | 1.3 | 1.4 | 533,428 |
| Columbia, SC | 25 | 27 | 4.6 | 5.0 | 543,543 |
| Columbus, Ohio | 84 | 85 | 5.4 | 5.5 | 1,559,597 |
| Dallas, Tex | 299 | 229 | 8.2 | 6.5 | 3,646,217 |
| Dayton, Ohio | 23 | 16 | 2.4 | 1.7 | 946,085 |
| Daytona Beach, Fla | 25 | ... | 4.9 | ... | 509,545 |
| Denver, Colo | 91 | 63 | 4.2 | 3.0 | 2,160,841 |
| Detroit, Mich | 199 | 194 | 4.5 | 4.4 | 4,448,235 |
| El Paso, Tex | 67 | 56 | 9.7 | 8.2 | 688,039 |
| Fort Lauderdale, Fla | 102 | 102 | 6.1 | 6.3 | 1,668,560 |
| Fort Wayne, Ind | 13 | 12 | 2.6 | 2.4 | 504,279 |
| Fort Worth, Tex | 114 | 101 | 6.5 | 5.9 | 1,754,520 |
| Fresno, Calif | 109 | 105 | 11.6 | 11.4 | 942,149 |
| Gary, Ind | 9 | 24 | 1.4 | 3.8 | 634,217 |
| Grand Rapids, Mich | 35 | 33 | 3.2 | 3.0 | 1,103,488 |
| Greensboro, NC | 50 | 41 | 3.9 | 3.3 | 1,268,603 |
| Greenville, SC | 34 | 42 | 3.5 | 4.4 | 978,213 |
| Harrisburg, Pa | 15 | 21 | 2.4 | 3.3 | 631,761 |
| Hartford, Conn | 40 | 29 | 3.5 | 2.5 | 1,157,645 |
| Honolulu, Hawaii | 124 | 108 | 14.1 | 12.3 | 881,295 |
| Houston, Tex | 464 | 432 | 10.8 | 10.3 | 4,290,277 |
| Indianapolis, Ind | 43 | 48 | 2.6 | 3.0 | 1,632,452 |
| Jacksonville, Fla | 99 | 125 | 8.7 | 11.4 | 1,131,490 |
| Jersey City, NJ | 84 | 85 | 13.8 | 14.0 | 607,554 |
| Kansas City, Mo | 50 | 73 | 2.8 | 4.1 | 1,803,445 |
| Knoxville, Tenn | 30 | 28 | 4.3 | 4.1 | 697,656 |
| Las Vegas, Nev | 74 | 88 | 4.5 | 5.6 | 1,660,516 |
| Little Rock, Ark | 24 | 21 | 4.1 | 3.6 | 590,024 |
| Los Angeles, Calif | 1,113 | 1,140 | 11.5 | 12.0 | 9,637,494 |
| Louisville, Ky | 38 | 36 | 3.7 | 3.5 | 1,030,841 |
| McAllen, Tex | 74 | 80 | 12.5 | 14.0 | 590,285 |
| Memphis, Tenn | 94 | 92 | 8.2 | 8.1 | 1,144,971 |
| Miami, Fla | 291 | 280 | 12.7 | 12.4 | 2,289,683 |
| Middlesex, NJ | 75 | 84 | 6.3 | 7.2 | 1,184,281 |
| Milwaukee, Wis | 32 | 46 | 2.1 | 3.1 | 1,502,461 |
| Minneapolis-St. Paul, Minn | 201 | 137 | 6.7 | 4.6 | 3,015,573 |

## Table 39. (Cont'd) Tuberculosis Cases and Case Rates per 100,000 Population: Metropolitan Statistical Areas with ≥500,000 Population, 2001 and 2000

| Metropolitan Statistical Area | Cases | | Case Rates | | Population Estimates |
|---|---|---|---|---|---|
| | 2001 | 2000 | 2001 | 2000 | 2001 |
| Mobile, Ala | 34 | 31 | 6.2 | 5.7 | 545,572 |
| Monmouth-Ocean City, NJ | 33 | 41 | 2.9 | 3.6 | 1,150,184 |
| Nashville, Tenn | 89 | 96 | 7.1 | 7.8 | 1,251,830 |
| Nassau-Suffolk, NY | 162 | 137 | 5.8 | 5.0 | 2,773,621 |
| New Haven, Conn | 73 | 54 | 4.3 | 3.2 | 1,713,742 |
| New Orleans, La | 107 | 142 | 8.0 | 10.6 | 1,332,694 |
| New York, NY | 1,356 | 1,427 | 14.5 | 15.3 | 9,333,651 |
| Newark, NJ | 178 | 194 | 8.7 | 9.5 | 2,041,824 |
| Norfolk, Va | 38 | 57 | 2.4 | 3.6 | 1,583,170 |
| Oakland, Calif | 313 | 309 | 12.9 | 12.9 | 2,433,952 |
| Oklahoma City, Okla | 60 | 64 | 5.5 | 5.9 | 1,092,342 |
| Omaha, Neb | 23 | 12 | 3.2 | 1.7 | 723,210 |
| Orange County, Calif | 278 | 246 | 9.6 | 8.6 | 2,890,444 |
| Orlando, Fla | 138 | 140 | 8.1 | 8.5 | 1,707,175 |
| Philadelphia, Pa | 223 | 263 | 4.4 | 5.2 | 5,116,830 |
| Phoenix, Ariz | 174 | 172 | 5.1 | 5.3 | 3,383,644 |
| Pittsburgh, Pa | 59 | 38 | 2.5 | 1.6 | 2,347,163 |
| Portland, Ore | 71 | 83 | 3.6 | 4.3 | 1,965,436 |
| Providence, RI | 58 | 49 | 6.0 | 5.1 | 973,702 |
| Raleigh-Durham, NC | 74 | 84 | 6.0 | 7.1 | 1,231,528 |
| Richmond, Va | 36 | 16 | 3.6 | 1.6 | 1,009,962 |
| Riverside-San Bernardino, Calif | 149 | 175 | 4.4 | 5.4 | 3,402,125 |
| Rochester, NY | 37 | 40 | 3.4 | 3.6 | 1,096,741 |
| Sacramento, Calif | 138 | 126 | 8.1 | 7.7 | 1,699,868 |
| St. Louis, Mo | 75 | 107 | 2.9 | 4.1 | 2,617,637 |
| Salt Lake City, Utah | 30 | 41 | 2.2 | 3.1 | 1,348,606 |
| San Antonio, Tex | 82 | 99 | 5.0 | 6.2 | 1,626,538 |
| San Diego, Calif | 332 | 296 | 11.6 | 10.5 | 2,862,819 |
| San Francisco, Calif | 275 | 227 | 16.0 | 13.1 | 1,720,450 |
| San Jose, Calif | 215 | 235 | 12.9 | 14.0 | 1,668,309 |
| Sarasota, Fla | 27 | 25 | 4.4 | 4.2 | 609,846 |
| Scranton, Pa | 15 | 15 | 2.4 | 2.4 | 619,790 |
| Seattle, Wash | 167 | 148 | 6.8 | 6.1 | 2,438,799 |
| Springfield, Mass | 15 | 16 | 2.5 | 2.6 | 608,738 |
| Stockton, Calif | 51 | 72 | 8.6 | 12.8 | 595,324 |
| Syracuse, NY | 20 | 26 | 2.7 | 3.6 | 731,252 |
| Tacoma, Wash | 22 | 34 | 3.1 | 4.9 | 719,407 |
| Tampa-St. Petersburg, Fla | 121 | 127 | 4.9 | 5.3 | 2,450,337 |
| Toledo, Ohio | 10 | 9 | 1.6 | 1.5 | 617,554 |
| Tucson, Ariz | 45 | 23 | 5.2 | 2.7 | 863,049 |
| Tulsa, Okla | 34 | 24 | 4.2 | 3.0 | 810,726 |
| Vallejo, Calif | 37 | 30 | 7.0 | 5.8 | 532,091 |
| Ventura, Calif | 52 | 44 | 6.7 | 5.8 | 770,630 |
| Washington, DC | 380 | 385 | 7.5 | 7.8 | 5,053,594 |
| West Palm Beach, Fla | 79 | 76 | 6.8 | 6.7 | 1,165,049 |
| Wichita, Kan | 22 | 29 | 4.0 | 5.3 | 548,741 |
| Wilmington, Del | 16 | 17 | 2.7 | 2.9 | 594,679 |
| Youngstown, Ohio | 11 | 17 | 1.9 | 2.9 | 590,618 |
| **Total - 103 Areas** | **12,239** | **12,367** | **6.8** | **6.9** | **181,212,429** |
| San Juan, Puerto Rico | 55 | 68 | 2.8 | 3.5 | 1,983,746 |

**Note:** In 2001, there were 103 metropolitan statistical areas with populations of 500,000 or more. In 2000, the Daytona Beach, Florida, metropolitan statistical area had a population under 500,000.

Ellipses indicate data not applicable.

## Table 40. Tuberculosis Cases by Form of Disease: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | Pulmonary[1] | | Extrapulmonary[2] | | Cases with Both Pulmonary and Extrapulmonary Disease | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Total[3] | | Miliary |
| | | No. | % | No. | % | No. | % | No. |
| Akron, Ohio | 19 | 12 | 63.2 | 7 | 36.8 | 0 | 0.0 | 0 |
| Albany-Schenectady, NY | 17 | 11 | 64.7 | 5 | 29.4 | 1 | 5.9 | 1 |
| Albuquerque, NM | 12 | 8 | 66.7 | 3 | 25.0 | 1 | 8.3 | 0 |
| Allentown, Pa | 14 | 10 | 71.4 | 3 | 21.4 | 1 | 7.1 | 1 |
| Ann Arbor, Mich | 7 | 5 | 71.4 | 1 | 14.3 | 1 | 14.3 | 0 |
| Atlanta, Ga | 313 | 227 | 72.5 | 68 | 21.7 | 18 | 5.8 | 3 |
| Austin, Tex | 105 | 72 | 68.6 | 25 | 23.8 | 8 | 7.6 | 1 |
| Bakersfield, Calif | 49 | 36 | 73.5 | 9 | 18.4 | 4 | 8.2 | 0 |
| Baltimore, Md | 116 | 85 | 73.3 | 13 | 11.2 | 18 | 15.5 | 6 |
| Baton Rouge, La | 20 | 16 | 80.0 | 4 | 20.0 | 0 | 0.0 | 0 |
| Bergen-Passaic, NJ | 86 | 63 | 73.3 | 18 | 20.9 | 5 | 5.8 | 1 |
| Birmingham, Ala | 70 | 56 | 80.0 | 13 | 18.6 | 1 | 1.4 | 0 |
| Boston, Mass | 261 | 153 | 58.6 | 92 | 35.2 | 16 | 6.1 | 9 |
| Buffalo, NY | 23 | 14 | 60.9 | 9 | 39.1 | 0 | 0.0 | 0 |
| Charleston, SC | 32 | 14 | 43.8 | 13 | 40.6 | 5 | 15.6 | 1 |
| Charlotte, NC | 75 | 53 | 70.7 | 14 | 18.7 | 8 | 10.7 | 2 |
| Chicago, Ill | 625 | 442 | 70.7 | 149 | 23.8 | 34 | 5.4 | 9 |
| Cincinnati, Ohio | 31 | 19 | 61.3 | 11 | 35.5 | 1 | 3.2 | 0 |
| Cleveland, Ohio | 79 | 49 | 62.0 | 21 | 26.6 | 9 | 11.4 | 3 |
| Colorado Springs, Colo | 7 | 5 | 71.4 | 1 | 14.3 | 1 | 14.3 | 0 |
| Columbia, SC | 25 | 22 | 88.0 | 1 | 4.0 | 2 | 8.0 | 1 |
| Columbus, Ohio | 84 | 61 | 72.6 | 19 | 22.6 | 4 | 4.8 | 0 |
| Dallas, Tex | 299 | 210 | 70.2 | 56 | 18.7 | 33 | 11.0 | 6 |
| Dayton, Ohio | 23 | 16 | 69.6 | 7 | 30.4 | 0 | 0.0 | 0 |
| Daytona Beach, Fla | 25 | 22 | 88.0 | 1 | 4.0 | 2 | 8.0 | 0 |
| Denver, Colo | 91 | 45 | 49.5 | 24 | 26.4 | 22 | 24.2 | 3 |
| Detroit, Mich | 199 | 138 | 69.3 | 44 | 22.1 | 17 | 8.5 | 2 |
| El Paso, Tex | 67 | 52 | 77.6 | 10 | 14.9 | 5 | 7.5 | 3 |
| Fort Lauderdale, Fla | 102 | 77 | 75.5 | 21 | 20.6 | 4 | 3.9 | 1 |
| Fort Wayne, Ind | 13 | 10 | 76.9 | 2 | 15.4 | 1 | 7.7 | 0 |
| Fort Worth, Tex | 114 | 93 | 81.6 | 18 | 15.8 | 3 | 2.6 | 1 |
| Fresno, Calif | 109 | 90 | 82.6 | 11 | 10.1 | 8 | 7.3 | 1 |
| Gary, Ind | 9 | 6 | 66.7 | 2 | 22.2 | 1 | 11.1 | 1 |
| Grand Rapids, Mich | 35 | 23 | 65.7 | 9 | 25.7 | 3 | 8.6 | 1 |
| Greensboro, NC | 50 | 35 | 70.0 | 11 | 22.0 | 4 | 8.0 | 1 |
| Greenville, SC | 34 | 24 | 70.6 | 3 | 8.8 | 7 | 20.6 | 1 |
| Harrisburg, Pa | 15 | 11 | 73.3 | 1 | 6.7 | 3 | 20.0 | 0 |
| Hartford, Conn | 40 | 29 | 72.5 | 6 | 15.0 | 5 | 12.5 | 4 |
| Honolulu, Hawaii | 124 | 103 | 83.1 | 18 | 14.5 | 3 | 2.4 | 0 |
| Houston, Tex | 464 | 339 | 73.1 | 94 | 20.3 | 31 | 6.7 | 9 |
| Indianapolis, Ind | 43 | 28 | 65.1 | 15 | 34.9 | 0 | 0.0 | 0 |
| Jacksonville, Fla | 99 | 80 | 80.8 | 16 | 16.2 | 3 | 3.0 | 0 |
| Jersey City, NJ | 84 | 60 | 71.4 | 14 | 16.7 | 10 | 11.9 | 3 |
| Kansas City, Mo | 50 | 37 | 74.0 | 11 | 22.0 | 2 | 4.0 | 0 |
| Knoxville, Tenn | 30 | 25 | 83.3 | 5 | 16.7 | 0 | 0.0 | 0 |
| Las Vegas, Nev | 74 | 59 | 79.7 | 14 | 18.9 | 1 | 1.4 | 0 |
| Little Rock, Ark | 24 | 22 | 91.7 | 2 | 8.3 | 0 | 0.0 | 0 |
| Los Angeles, Calif | 1,113 | 850 | 76.4 | 185 | 16.6 | 78 | 7.0 | 19 |
| Louisville, Ky | 38 | 28 | 73.7 | 8 | 21.1 | 2 | 5.3 | 1 |
| McAllen, Tex | 74 | 58 | 78.4 | 11 | 14.9 | 5 | 6.8 | 2 |
| Memphis, Tenn | 94 | 62 | 66.0 | 15 | 16.0 | 17 | 18.1 | 2 |
| Miami, Fla | 291 | 218 | 74.9 | 54 | 18.6 | 19 | 6.5 | 9 |
| Middlesex, NJ | 75 | 46 | 61.3 | 24 | 32.0 | 5 | 6.7 | 1 |
| Milwaukee, Wis | 32 | 23 | 71.9 | 6 | 18.8 | 3 | 9.4 | 2 |
| Minneapolis-St. Paul, Minn | 201 | 104 | 51.7 | 76 | 37.8 | 21 | 10.4 | 12 |

[1]Includes cases with pulmonary listed as major site of disease and no additional site of disease.

[2]Includes cases with pleural, lymphatic, bone and/or joint, meningeal, peritoneal, or other site, excluding pulmonary, listed as major site of disease.

[3]Includes miliary cases.

## Table 40. (Cont'd) Tuberculosis Cases by Form of Disease: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | Pulmonary[1] | | Extrapulmonary[2] | | Cases with Both Pulmonary and Extrapulmonary Disease | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Total[3] | | Miliary |
| | | No. | % | No. | % | No. | % | No. |
| Mobile, Ala | 34 | 27 | 79.4 | 6 | 17.6 | 1 | 2.9 | 0 |
| Monmouth-Ocean City, NJ | 33 | 25 | 75.8 | 6 | 18.2 | 2 | 6.1 | 0 |
| Nashville, Tenn | 89 | 69 | 77.5 | 14 | 15.7 | 6 | 6.7 | 0 |
| Nassau-Suffolk, NY | 162 | 115 | 71.0 | 42 | 25.9 | 5 | 3.1 | 1 |
| New Haven, Conn | 73 | 51 | 69.9 | 15 | 20.5 | 7 | 9.6 | 3 |
| New Orleans, La | 107 | 89 | 83.2 | 9 | 8.4 | 9 | 8.4 | 0 |
| New York, NY | 1,356 | 943 | 69.5 | 296 | 21.8 | 117 | 8.6 | 27 |
| Newark, NJ | 178 | 129 | 72.5 | 36 | 20.2 | 13 | 7.3 | 3 |
| Norfolk, Va | 38 | 30 | 78.9 | 7 | 18.4 | 1 | 2.6 | 0 |
| Oakland, Calif | 313 | 230 | 73.5 | 55 | 17.6 | 28 | 8.9 | 6 |
| Oklahoma City, Okla | 60 | 40 | 66.7 | 12 | 20.0 | 8 | 13.3 | 3 |
| Omaha, Neb | 23 | 17 | 73.9 | 5 | 21.7 | 1 | 4.3 | 1 |
| Orange County, Calif | 278 | 194 | 69.8 | 65 | 23.4 | 19 | 6.8 | 1 |
| Orlando, Fla | 138 | 117 | 84.8 | 14 | 10.1 | 7 | 5.1 | 1 |
| Philadelphia, Pa | 223 | 136 | 61.0 | 58 | 26.0 | 29 | 13.0 | 4 |
| Phoenix, Ariz | 174 | 137 | 78.7 | 23 | 13.2 | 14 | 8.0 | 2 |
| Pittsburgh, Pa | 59 | 39 | 66.1 | 14 | 23.7 | 6 | 10.2 | 4 |
| Portland, Ore | 71 | 37 | 52.1 | 22 | 31.0 | 12 | 16.9 | 7 |
| Providence, RI | 58 | 39 | 67.2 | 15 | 25.9 | 4 | 6.9 | 1 |
| Raleigh-Durham, NC | 74 | 52 | 70.3 | 18 | 24.3 | 4 | 5.4 | 3 |
| Richmond, Va | 36 | 29 | 80.6 | 5 | 13.9 | 1 | 2.8 | 0 |
| Riverside-San Bernardino, Calif | 149 | 117 | 78.5 | 24 | 16.1 | 8 | 5.4 | 1 |
| Rochester, NY | 37 | 25 | 67.6 | 7 | 18.9 | 5 | 13.5 | 0 |
| Sacramento, Calif | 138 | 111 | 80.4 | 21 | 15.2 | 6 | 4.3 | 1 |
| St. Louis, Mo | 75 | 52 | 69.3 | 17 | 22.7 | 6 | 8.0 | 4 |
| Salt Lake City, Utah | 30 | 21 | 70.0 | 5 | 16.7 | 4 | 13.3 | 0 |
| San Antonio, Tex | 82 | 61 | 74.4 | 13 | 15.9 | 8 | 9.8 | 1 |
| San Diego, Calif | 332 | 239 | 72.0 | 62 | 18.7 | 31 | 9.3 | 3 |
| San Francisco, Calif | 275 | 203 | 73.8 | 56 | 20.4 | 16 | 5.8 | 3 |
| San Jose, Calif | 215 | 141 | 65.6 | 65 | 30.2 | 9 | 4.2 | 2 |
| Sarasota, Fla | 27 | 25 | 92.6 | 1 | 3.7 | 1 | 3.7 | 0 |
| Scranton, Pa | 15 | 11 | 73.3 | 1 | 6.7 | 3 | 20.0 | 1 |
| Seattle, Wash | 167 | 93 | 55.7 | 57 | 34.1 | 16 | 9.6 | 4 |
| Springfield, Mass | 15 | 10 | 66.7 | 4 | 26.7 | 1 | 6.7 | 0 |
| Stockton, Calif | 51 | 40 | 78.4 | 7 | 13.7 | 4 | 7.8 | 0 |
| Syracuse, NY | 20 | 12 | 60.0 | 6 | 30.0 | 2 | 10.0 | 0 |
| Tacoma, Wash | 22 | 15 | 68.2 | 6 | 27.3 | 1 | 4.5 | 0 |
| Tampa-St. Petersburg, Fla | 121 | 94 | 77.7 | 15 | 12.4 | 12 | 9.9 | 0 |
| Toledo, Ohio | 10 | 8 | 80.0 | 2 | 20.0 | 0 | 0.0 | 0 |
| Tucson, Ariz | 45 | 35 | 77.8 | 10 | 22.2 | 0 | 0.0 | 0 |
| Tulsa, Okla | 34 | 27 | 79.4 | 4 | 11.8 | 3 | 8.8 | 0 |
| Vallejo, Calif | 37 | 28 | 75.7 | 7 | 18.9 | 2 | 5.4 | 0 |
| Ventura, Calif | 52 | 32 | 61.5 | 8 | 15.4 | 12 | 23.1 | 3 |
| Washington, DC | 380 | 249 | 65.5 | 105 | 27.6 | 25 | 6.6 | 6 |
| West Palm Beach, Fla | 79 | 58 | 73.4 | 19 | 24.1 | 2 | 2.5 | 0 |
| Wichita, Kan | 22 | 16 | 72.7 | 4 | 18.2 | 2 | 9.1 | 0 |
| Wilmington, Del | 16 | 10 | 62.5 | 5 | 31.3 | 1 | 6.3 | 0 |
| Youngstown, Ohio | 11 | 7 | 63.6 | 3 | 27.3 | 1 | 9.1 | 0 |
| **Total - 103 Areas** | **12,239** | **8,741** | **71.4** | **2,564** | **20.9** | **931** | **7.6** | **219** |
| San Juan, Puerto Rico | 55 | 49 | 89.1 | 6 | 10.9 | 0 | 0.0 | 0 |

[1]Includes cases with pulmonary listed as major site of disease and no additional site of disease.

[2]Includes cases with pleural, lymphatic, bone and/or joint, meningeal, peritoneal, or other site, excluding pulmonary, listed as major site of disease.

[3]Includes miliary cases.

**Note:** 3 (<0.1%) cases had missing and/or unknown site of disease.

## Table 41. Tuberculosis Cases by Age Group: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | Unknown or Missing |
|---|---|---|---|---|---|---|---|---|
| Akron, Ohio | 19 | 1 | 0 | 2 | 5 | 5 | 6 | 0 |
| Albany-Schenectady, NY | 17 | 0 | 0 | 1 | 6 | 7 | 3 | 0 |
| Albuquerque, NM | 12 | 0 | 0 | 2 | 4 | 2 | 4 | 0 |
| Allentown, Pa | 14 | 0 | 0 | 1 | 3 | 6 | 4 | 0 |
| Ann Arbor, Mich | 7 | 0 | 0 | 0 | 4 | 3 | 0 | 0 |
| Atlanta, Ga | 313 | 16 | 2 | 33 | 148 | 86 | 27 | 1 |
| Austin, Tex | 105 | 7 | 2 | 20 | 42 | 21 | 13 | 0 |
| Bakersfield, Calif | 49 | 1 | 2 | 3 | 18 | 20 | 5 | 0 |
| Baltimore, Md | 116 | 5 | 4 | 13 | 50 | 21 | 23 | 0 |
| Baton Rouge, La | 20 | 1 | 1 | 2 | 3 | 10 | 3 | 0 |
| Bergen-Passaic, NJ | 86 | 5 | 1 | 10 | 33 | 18 | 19 | 0 |
| Birmingham, Ala | 70 | 1 | 0 | 3 | 25 | 18 | 23 | 0 |
| Boston, Mass | 261 | 5 | 6 | 30 | 121 | 56 | 43 | 0 |
| Buffalo, NY | 23 | 2 | 0 | 3 | 6 | 2 | 10 | 0 |
| Charleston, SC | 32 | 2 | 1 | 1 | 5 | 10 | 13 | 0 |
| Charlotte, NC | 75 | 2 | 3 | 8 | 32 | 16 | 14 | 0 |
| Chicago, Ill | 625 | 26 | 11 | 59 | 233 | 197 | 99 | 0 |
| Cincinnati, Ohio | 31 | 0 | 0 | 2 | 9 | 11 | 9 | 0 |
| Cleveland, Ohio | 79 | 0 | 2 | 5 | 16 | 27 | 29 | 0 |
| Colorado Springs, Colo | 7 | 1 | 0 | 0 | 2 | 1 | 3 | 0 |
| Columbia, SC | 25 | 0 | 0 | 1 | 12 | 6 | 6 | 0 |
| Columbus, Ohio | 84 | 6 | 6 | 20 | 21 | 15 | 16 | 0 |
| Dallas, Tex | 299 | 12 | 7 | 33 | 133 | 89 | 25 | 0 |
| Dayton, Ohio | 23 | 0 | 0 | 4 | 5 | 8 | 6 | 0 |
| Daytona Beach, Fla | 25 | 3 | 1 | 2 | 8 | 8 | 3 | 0 |
| Denver, Colo | 91 | 5 | 5 | 12 | 30 | 19 | 20 | 0 |
| Detroit, Mich | 199 | 8 | 5 | 17 | 62 | 59 | 48 | 0 |
| El Paso, Tex | 67 | 2 | 1 | 7 | 18 | 19 | 20 | 0 |
| Fort Lauderdale, Fla | 102 | 2 | 1 | 11 | 45 | 28 | 15 | 0 |
| Fort Wayne, Ind | 13 | 0 | 0 | 2 | 6 | 5 | 0 | 0 |
| Fort Worth, Tex | 114 | 8 | 6 | 10 | 41 | 37 | 12 | 0 |
| Fresno, Calif | 109 | 13 | 5 | 9 | 28 | 31 | 23 | 0 |
| Gary, Ind | 9 | 1 | 0 | 0 | 1 | 2 | 5 | 0 |
| Grand Rapids, Mich | 35 | 2 | 0 | 8 | 14 | 3 | 8 | 0 |
| Greensboro, NC | 50 | 2 | 0 | 8 | 18 | 16 | 6 | 0 |
| Greenville, SC | 34 | 5 | 1 | 1 | 8 | 12 | 7 | 0 |
| Harrisburg, Pa | 15 | 0 | 1 | 1 | 5 | 4 | 4 | 0 |
| Hartford, Conn | 40 | 0 | 1 | 1 | 10 | 14 | 14 | 0 |
| Honolulu, Hawaii | 124 | 1 | 1 | 11 | 27 | 46 | 38 | 0 |
| Houston, Tex | 464 | 14 | 16 | 40 | 178 | 159 | 57 | 0 |
| Indianapolis, Ind | 43 | 0 | 0 | 3 | 17 | 14 | 9 | 0 |
| Jacksonville, Fla | 99 | 1 | 1 | 6 | 45 | 32 | 14 | 0 |
| Jersey City, NJ | 84 | 0 | 2 | 13 | 39 | 19 | 11 | 0 |
| Kansas City, Mo | 50 | 0 | 3 | 9 | 17 | 12 | 9 | 0 |
| Knoxville, Tenn | 30 | 0 | 0 | 2 | 4 | 10 | 14 | 0 |
| Las Vegas, Nev | 74 | 3 | 1 | 9 | 28 | 25 | 8 | 0 |
| Little Rock, Ark | 24 | 1 | 0 | 2 | 5 | 8 | 8 | 0 |
| Los Angeles, Calif | 1,113 | 32 | 23 | 105 | 357 | 336 | 260 | 0 |
| Louisville, Ky | 38 | 1 | 1 | 1 | 16 | 11 | 8 | 0 |
| McAllen, Tex | 74 | 7 | 1 | 7 | 18 | 19 | 22 | 0 |
| Memphis, Tenn | 94 | 4 | 4 | 8 | 39 | 24 | 15 | 0 |
| Miami, Fla | 291 | 10 | 11 | 20 | 115 | 98 | 37 | 0 |
| Middlesex, NJ | 75 | 1 | 0 | 8 | 41 | 13 | 12 | 0 |
| Milwaukee, Wis | 32 | 0 | 0 | 3 | 16 | 7 | 6 | 0 |
| Minneapolis-St. Paul, Minn | 201 | 10 | 13 | 46 | 79 | 32 | 21 | 0 |

## Table 41. (Cont'd) Tuberculosis Cases by Age Group: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | Under 5 | 5 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65+ | Unknown or Missing |
|---|---|---|---|---|---|---|---|---|
| Mobile, Ala | 34 | 0 | 0 | 1 | 11 | 14 | 8 | 0 |
| Monmouth-Ocean City, NJ | 33 | 0 | 1 | 7 | 13 | 3 | 9 | 0 |
| Nashville, Tenn | 89 | 1 | 1 | 3 | 49 | 23 | 12 | 0 |
| Nassau-Suffolk, NY | 162 | 5 | 4 | 18 | 54 | 49 | 32 | 0 |
| New Haven, Conn | 73 | 1 | 1 | 11 | 32 | 14 | 14 | 0 |
| New Orleans, La | 107 | 3 | 5 | 6 | 40 | 32 | 21 | 0 |
| New York, NY | 1,356 | 30 | 27 | 166 | 583 | 344 | 206 | 0 |
| Newark, NJ | 178 | 2 | 6 | 21 | 72 | 43 | 34 | 0 |
| Norfolk, Va | 38 | 0 | 0 | 2 | 10 | 14 | 12 | 0 |
| Oakland, Calif | 313 | 9 | 14 | 19 | 129 | 85 | 57 | 0 |
| Oklahoma City, Okla | 60 | 1 | 2 | 5 | 22 | 20 | 10 | 0 |
| Omaha, Neb | 23 | 1 | 0 | 4 | 9 | 5 | 4 | 0 |
| Orange County, Calif | 278 | 13 | 9 | 35 | 101 | 72 | 48 | 0 |
| Orlando, Fla | 138 | 4 | 2 | 11 | 55 | 51 | 15 | 0 |
| Philadelphia, Pa | 223 | 8 | 4 | 13 | 92 | 52 | 53 | 1 |
| Phoenix, Ariz | 174 | 9 | 4 | 29 | 61 | 43 | 28 | 0 |
| Pittsburgh, Pa | 59 | 1 | 0 | 2 | 19 | 13 | 24 | 0 |
| Portland, Ore | 71 | 2 | 1 | 9 | 36 | 13 | 10 | 0 |
| Providence, RI | 58 | 6 | 2 | 10 | 17 | 16 | 7 | 0 |
| Raleigh-Durham, NC | 74 | 4 | 0 | 14 | 33 | 17 | 6 | 0 |
| Richmond, Va | 36 | 1 | 2 | 2 | 14 | 9 | 8 | 0 |
| Riverside-San Bernardino, Calif | 149 | 8 | 6 | 7 | 54 | 34 | 40 | 0 |
| Rochester, NY | 37 | 0 | 3 | 4 | 12 | 13 | 5 | 0 |
| Sacramento, Calif | 138 | 5 | 2 | 9 | 46 | 41 | 35 | 0 |
| St. Louis, Mo | 75 | 1 | 4 | 5 | 30 | 19 | 16 | 0 |
| Salt Lake City, Utah | 30 | 1 | 2 | 5 | 10 | 8 | 4 | 0 |
| San Antonio, Tex | 82 | 6 | 1 | 5 | 21 | 22 | 27 | 0 |
| San Diego, Calif | 332 | 18 | 16 | 45 | 102 | 90 | 61 | 0 |
| San Francisco, Calif | 275 | 7 | 3 | 25 | 75 | 84 | 81 | 0 |
| San Jose, Calif | 215 | 9 | 2 | 16 | 102 | 48 | 38 | 0 |
| Sarasota, Fla | 27 | 0 | 0 | 1 | 12 | 9 | 5 | 0 |
| Scranton, Pa | 15 | 0 | 0 | 2 | 1 | 4 | 8 | 0 |
| Seattle, Wash | 167 | 5 | 5 | 24 | 67 | 41 | 25 | 0 |
| Springfield, Mass | 15 | 0 | 1 | 4 | 2 | 4 | 4 | 0 |
| Stockton, Calif | 51 | 1 | 3 | 5 | 11 | 21 | 10 | 0 |
| Syracuse, NY | 20 | 1 | 1 | 5 | 5 | 4 | 4 | 0 |
| Tacoma, Wash | 22 | 1 | 1 | 3 | 4 | 8 | 5 | 0 |
| Tampa-St. Petersburg, Fla | 121 | 6 | 1 | 10 | 37 | 47 | 20 | 0 |
| Toledo, Ohio | 10 | 0 | 0 | 1 | 4 | 2 | 3 | 0 |
| Tucson, Ariz | 45 | 0 | 1 | 5 | 11 | 16 | 12 | 0 |
| Tulsa, Okla | 34 | 1 | 1 | 2 | 7 | 11 | 12 | 0 |
| Vallejo, Calif | 37 | 4 | 3 | 4 | 6 | 9 | 11 | 0 |
| Ventura, Calif | 52 | 1 | 1 | 6 | 16 | 15 | 13 | 0 |
| Washington, DC | 380 | 12 | 11 | 58 | 161 | 87 | 51 | 0 |
| West Palm Beach, Fla | 79 | 2 | 1 | 9 | 31 | 21 | 15 | 0 |
| Wichita, Kan | 22 | 0 | 0 | 5 | 9 | 4 | 4 | 0 |
| Wilmington, Del | 16 | 1 | 0 | 1 | 8 | 4 | 2 | 0 |
| Youngstown, Ohio | 11 | 0 | 1 | 0 | 1 | 3 | 6 | 0 |
| **Total - 103 Areas** | **12,239** | **420** | **307** | **1,292** | **4,568** | **3,378** | **2,272** | **2** |
| San Juan, Puerto Rico | 55 | 0 | 0 | 7 | 13 | 19 | 16 | 0 |

## Table 42. Tuberculosis Cases by Race/Ethnicity: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | White, non-Hispanic | Black, non-Hispanic | Hispanic[1] | American Indian or Alaska Native | Asian or Pacific Islander | Unknown or Missing |
|---|---|---|---|---|---|---|---|
| Akron, Ohio | 19 | 8 | 8 | 0 | 0 | 3 | 0 |
| Albany-Schenectady, NY | 17 | 8 | 6 | 1 | 0 | 2 | 0 |
| Albuquerque, NM | 12 | 3 | 0 | 4 | 2 | 3 | 0 |
| Allentown, Pa | 14 | 10 | 1 | 2 | 0 | 1 | 0 |
| Ann Arbor, Mich | 7 | 1 | 2 | 0 | 0 | 4 | 0 |
| Atlanta, Ga | 313 | 41 | 190 | 41 | 2 | 38 | 1 |
| Austin, Tex | 105 | 16 | 24 | 44 | 1 | 20 | 0 |
| Bakersfield, Calif | 49 | 6 | 4 | 32 | 0 | 7 | 0 |
| Baltimore, Md | 116 | 17 | 71 | 10 | 0 | 18 | 0 |
| Baton Rouge, La | 20 | 6 | 10 | 2 | 0 | 2 | 0 |
| Bergen-Passaic, NJ | 86 | 18 | 10 | 24 | 0 | 34 | 0 |
| Birmingham, Ala | 70 | 26 | 35 | 5 | 0 | 4 | 0 |
| Boston, Mass | 261 | 67 | 67 | 42 | 1 | 84 | 0 |
| Buffalo, NY | 23 | 8 | 5 | 2 | 0 | 8 | 0 |
| Charleston, SC | 32 | 6 | 20 | 2 | 0 | 4 | 0 |
| Charlotte, NC | 75 | 8 | 45 | 11 | 0 | 11 | 0 |
| Chicago, Ill | 625 | 94 | 256 | 139 | 4 | 129 | 3 |
| Cincinnati, Ohio | 31 | 11 | 13 | 2 | 1 | 4 | 0 |
| Cleveland, Ohio | 79 | 25 | 46 | 2 | 0 | 6 | 0 |
| Colorado Springs, Colo | 7 | 3 | 1 | 2 | 0 | 1 | 0 |
| Columbia, SC | 25 | 3 | 19 | 1 | 0 | 2 | 0 |
| Columbus, Ohio | 84 | 20 | 49 | 6 | 0 | 9 | 0 |
| Dallas, Tex | 299 | 25 | 138 | 101 | 1 | 34 | 0 |
| Dayton, Ohio | 23 | 8 | 7 | 1 | 0 | 7 | 0 |
| Daytona Beach, Fla | 25 | 10 | 13 | 0 | 0 | 2 | 0 |
| Denver, Colo | 91 | 16 | 17 | 39 | 1 | 18 | 0 |
| Detroit, Mich | 199 | 63 | 106 | 2 | 0 | 27 | 1 |
| El Paso, Tex | 67 | 5 | 0 | 56 | 0 | 6 | 0 |
| Fort Lauderdale, Fla | 102 | 31 | 51 | 18 | 0 | 2 | 0 |
| Fort Wayne, Ind | 13 | 6 | 6 | 0 | 0 | 1 | 0 |
| Fort Worth, Tex | 114 | 19 | 44 | 34 | 0 | 17 | 0 |
| Fresno, Calif | 109 | 20 | 8 | 53 | 1 | 27 | 0 |
| Gary, Ind | 9 | 6 | 2 | 1 | 0 | 0 | 0 |
| Grand Rapids, Mich | 35 | 13 | 9 | 6 | 0 | 7 | 0 |
| Greensboro, NC | 50 | 9 | 20 | 20 | 0 | 1 | 0 |
| Greenville, SC | 34 | 12 | 16 | 3 | 0 | 3 | 0 |
| Harrisburg, Pa | 15 | 7 | 1 | 0 | 0 | 6 | 1 |
| Hartford, Conn | 40 | 13 | 11 | 5 | 0 | 10 | 1 |
| Honolulu, Hawaii | 124 | 6 | 0 | 0 | 0 | 117 | 1 |
| Houston, Tex | 464 | 77 | 149 | 163 | 0 | 75 | 0 |
| Indianapolis, Ind | 43 | 14 | 12 | 8 | 0 | 9 | 0 |
| Jacksonville, Fla | 99 | 29 | 53 | 3 | 0 | 14 | 0 |
| Jersey City, NJ | 84 | 8 | 18 | 35 | 0 | 23 | 0 |
| Kansas City, Mo | 50 | 9 | 24 | 8 | 0 | 7 | 2 |
| Knoxville, Tenn | 30 | 20 | 8 | 1 | 0 | 1 | 0 |
| Las Vegas, Nev | 74 | 18 | 14 | 15 | 0 | 26 | 1 |
| Little Rock, Ark | 24 | 10 | 11 | 0 | 0 | 3 | 0 |
| Los Angeles, Calif | 1,113 | 98 | 106 | 511 | 0 | 398 | 0 |
| Louisville, Ky | 38 | 20 | 13 | 1 | 0 | 4 | 0 |
| McAllen, Tex | 74 | 2 | 0 | 72 | 0 | 0 | 0 |
| Memphis, Tenn | 94 | 12 | 72 | 6 | 0 | 2 | 2 |
| Miami, Fla | 291 | 21 | 150 | 110 | 1 | 9 | 0 |
| Middlesex, NJ | 75 | 8 | 12 | 10 | 1 | 44 | 0 |
| Milwaukee, Wis | 32 | 2 | 17 | 3 | 1 | 9 | 0 |
| Minneapolis-St. Paul, Minn | 201 | 14 | 117 | 15 | 1 | 54 | 0 |

[1] Persons of Hispanic origin may be of any race.

## Table 42. (Cont'd) Tuberculosis Cases by Race/Ethnicity: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | White, non-Hispanic | Black, non-Hispanic | Hispanic[1] | American Indian or Alaska Native | Asian or Pacific Islander | Unknown or Missing |
|---|---|---|---|---|---|---|---|
| Mobile, Ala | 34 | 12 | 19 | 1 | 0 | 2 | 0 |
| Monmouth-Ocean City, NJ | 33 | 12 | 3 | 7 | 0 | 10 | 1 |
| Nashville, Tenn | 89 | 33 | 43 | 7 | 0 | 4 | 2 |
| Nassau-Suffolk, NY | 162 | 38 | 34 | 60 | 0 | 30 | 0 |
| New Haven, Conn | 73 | 24 | 19 | 19 | 0 | 11 | 0 |
| New Orleans, La | 107 | 34 | 60 | 3 | 0 | 9 | 1 |
| New York, NY | 1,356 | 128 | 437 | 415 | 1 | 370 | 5 |
| Newark, NJ | 178 | 17 | 79 | 60 | 0 | 22 | 0 |
| Norfolk, Va | 38 | 5 | 27 | 1 | 0 | 4 | 1 |
| Oakland, Calif | 313 | 19 | 76 | 48 | 2 | 168 | 0 |
| Oklahoma City, Okla | 60 | 21 | 7 | 7 | 13 | 12 | 0 |
| Omaha, Neb | 23 | 7 | 6 | 6 | 0 | 4 | 0 |
| Orange County, Calif | 278 | 24 | 3 | 106 | 0 | 145 | 0 |
| Orlando, Fla | 138 | 40 | 71 | 16 | 0 | 11 | 0 |
| Philadelphia, Pa | 223 | 41 | 106 | 19 | 1 | 55 | 1 |
| Phoenix, Ariz | 174 | 47 | 11 | 86 | 11 | 19 | 0 |
| Pittsburgh, Pa | 59 | 27 | 18 | 0 | 0 | 14 | 0 |
| Portland, Ore | 71 | 15 | 12 | 18 | 0 | 26 | 0 |
| Providence, RI | 58 | 17 | 12 | 16 | 0 | 13 | 0 |
| Raleigh-Durham, NC | 74 | 6 | 36 | 19 | 0 | 13 | 0 |
| Richmond, Va | 36 | 9 | 17 | 5 | 0 | 5 | 0 |
| Riverside-San Bernardino, Calif | 149 | 27 | 11 | 72 | 1 | 37 | 1 |
| Rochester, NY | 37 | 11 | 15 | 4 | 0 | 7 | 0 |
| Sacramento, Calif | 138 | 28 | 12 | 22 | 2 | 69 | 5 |
| St. Louis, Mo | 75 | 20 | 41 | 4 | 0 | 10 | 0 |
| Salt Lake City, Utah | 30 | 10 | 4 | 12 | 1 | 3 | 0 |
| San Antonio, Tex | 82 | 12 | 8 | 60 | 0 | 2 | 0 |
| San Diego, Calif | 332 | 49 | 20 | 164 | 1 | 98 | 0 |
| San Francisco, Calif | 275 | 27 | 31 | 37 | 3 | 177 | 0 |
| San Jose, Calif | 215 | 6 | 7 | 37 | 0 | 165 | 0 |
| Sarasota, Fla | 27 | 7 | 12 | 6 | 0 | 2 | 0 |
| Scranton, Pa | 15 | 10 | 1 | 2 | 0 | 2 | 0 |
| Seattle, Wash | 167 | 33 | 38 | 15 | 5 | 74 | 2 |
| Springfield, Mass | 15 | 5 | 2 | 4 | 0 | 4 | 0 |
| Stockton, Calif | 51 | 8 | 3 | 17 | 0 | 23 | 0 |
| Syracuse, NY | 20 | 7 | 12 | 0 | 0 | 1 | 0 |
| Tacoma, Wash | 22 | 4 | 2 | 2 | 0 | 14 | 0 |
| Tampa-St. Petersburg, Fla | 121 | 46 | 40 | 20 | 0 | 15 | 0 |
| Toledo, Ohio | 10 | 4 | 3 | 1 | 0 | 2 | 0 |
| Tucson, Ariz | 45 | 17 | 2 | 20 | 3 | 3 | 0 |
| Tulsa, Okla | 34 | 18 | 9 | 2 | 4 | 0 | 1 |
| Vallejo, Calif | 37 | 3 | 7 | 8 | 0 | 19 | 0 |
| Ventura, Calif | 52 | 14 | 0 | 24 | 0 | 13 | 1 |
| Washington, DC | 380 | 34 | 144 | 91 | 3 | 107 | 1 |
| West Palm Beach, Fla | 79 | 17 | 45 | 13 | 0 | 4 | 0 |
| Wichita, Kan | 22 | 7 | 2 | 2 | 1 | 10 | 0 |
| Wilmington, Del | 16 | 4 | 5 | 5 | 0 | 2 | 0 |
| Youngstown, Ohio | 11 | 7 | 4 | 0 | 0 | 0 | 0 |
| **Total - 103 Areas** | **12,239** | **2,047** | **3,683** | **3,237** | **70** | **3,167** | **35** |
| San Juan, Puerto Rico | 55 | 0 | 0 | 54 | 0 | 1 | 0 |

[1] Persons of Hispanic origin may be of any race.

## Table 43. Tuberculosis Cases, U.S.-born Persons and Foreign-born Persons: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | U.S.-born Persons | | Foreign-born Persons[1] | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % |
| Akron, Ohio | 19 | 15 | 78.9 | 4 | 21.1 | 0 | 0.0 |
| Albany-Schenectady, NY | 17 | 13 | 76.5 | 4 | 23.5 | 0 | 0.0 |
| Albuquerque, NM | 12 | 6 | 50.0 | 6 | 50.0 | 0 | 0.0 |
| Allentown, Pa | 14 | 8 | 57.1 | 6 | 42.9 | 0 | 0.0 |
| Ann Arbor, Mich | 7 | 1 | 14.3 | 6 | 85.7 | 0 | 0.0 |
| Atlanta, Ga | 313 | 196 | 62.6 | 117 | 37.4 | 0 | 0.0 |
| Austin, Tex | 105 | 49 | 46.7 | 56 | 53.3 | 0 | 0.0 |
| Bakersfield, Calif | 49 | 16 | 32.7 | 33 | 67.3 | 0 | 0.0 |
| Baltimore, Md | 116 | 65 | 56.0 | 51 | 44.0 | 0 | 0.0 |
| Baton Rouge, La | 20 | 15 | 75.0 | 5 | 25.0 | 0 | 0.0 |
| Bergen-Passaic, NJ | 86 | 29 | 33.7 | 57 | 66.3 | 0 | 0.0 |
| Birmingham, Ala | 70 | 60 | 85.7 | 10 | 14.3 | 0 | 0.0 |
| Boston, Mass | 261 | 59 | 22.6 | 202 | 77.4 | 0 | 0.0 |
| Buffalo, NY | 23 | 10 | 43.5 | 13 | 56.5 | 0 | 0.0 |
| Charleston, SC | 32 | 28 | 87.5 | 4 | 12.5 | 0 | 0.0 |
| Charlotte, NC | 75 | 46 | 61.3 | 29 | 38.7 | 0 | 0.0 |
| Chicago, Ill | 625 | 387 | 61.9 | 237 | 37.9 | 1 | 0.2 |
| Cincinnati, Ohio | 31 | 24 | 77.4 | 7 | 22.6 | 0 | 0.0 |
| Cleveland, Ohio | 79 | 66 | 83.5 | 13 | 16.5 | 0 | 0.0 |
| Colorado Springs, Colo | 7 | 5 | 71.4 | 2 | 28.6 | 0 | 0.0 |
| Columbia, SC | 25 | 21 | 84.0 | 4 | 16.0 | 0 | 0.0 |
| Columbus, Ohio | 84 | 42 | 50.0 | 42 | 50.0 | 0 | 0.0 |
| Dallas, Tex | 299 | 151 | 50.5 | 148 | 49.5 | 0 | 0.0 |
| Dayton, Ohio | 23 | 13 | 56.5 | 10 | 43.5 | 0 | 0.0 |
| Daytona Beach, Fla | 25 | 22 | 88.0 | 3 | 12.0 | 0 | 0.0 |
| Denver, Colo | 91 | 29 | 31.9 | 62 | 68.1 | 0 | 0.0 |
| Detroit, Mich | 199 | 145 | 72.9 | 54 | 27.1 | 0 | 0.0 |
| El Paso, Tex | 67 | 18 | 26.9 | 49 | 73.1 | 0 | 0.0 |
| Fort Lauderdale, Fla | 102 | 46 | 45.1 | 56 | 54.9 | 0 | 0.0 |
| Fort Wayne, Ind | 13 | 8 | 61.5 | 5 | 38.5 | 0 | 0.0 |
| Fort Worth, Tex | 114 | 64 | 56.1 | 50 | 43.9 | 0 | 0.0 |
| Fresno, Calif | 109 | 42 | 38.5 | 67 | 61.5 | 0 | 0.0 |
| Gary, Ind | 9 | 8 | 88.9 | 1 | 11.1 | 0 | 0.0 |
| Grand Rapids, Mich | 35 | 10 | 28.6 | 25 | 71.4 | 0 | 0.0 |
| Greensboro, NC | 50 | 28 | 56.0 | 22 | 44.0 | 0 | 0.0 |
| Greenville, SC | 34 | 28 | 82.4 | 6 | 17.6 | 0 | 0.0 |
| Harrisburg, Pa | 15 | 8 | 53.3 | 7 | 46.7 | 0 | 0.0 |
| Hartford, Conn | 40 | 18 | 45.0 | 22 | 55.0 | 0 | 0.0 |
| Honolulu, Hawaii | 124 | 25 | 20.2 | 96 | 77.4 | 3 | 2.4 |
| Houston, Tex | 464 | 269 | 58.0 | 195 | 42.0 | 0 | 0.0 |
| Indianapolis, Ind | 43 | 25 | 58.1 | 18 | 41.9 | 0 | 0.0 |
| Jacksonville, Fla | 99 | 77 | 77.8 | 22 | 22.2 | 0 | 0.0 |
| Jersey City, NJ | 84 | 23 | 27.4 | 60 | 71.4 | 1 | 1.2 |
| Kansas City, Mo | 50 | 27 | 54.0 | 22 | 44.0 | 1 | 2.0 |
| Knoxville, Tenn | 30 | 27 | 90.0 | 3 | 10.0 | 0 | 0.0 |
| Las Vegas, Nev | 74 | 31 | 41.9 | 42 | 56.8 | 1 | 1.4 |
| Little Rock, Ark | 24 | 21 | 87.5 | 2 | 8.3 | 1 | 4.2 |
| Los Angeles, Calif | 1,113 | 257 | 23.1 | 852 | 76.5 | 4 | 0.4 |
| Louisville, Ky | 38 | 30 | 78.9 | 8 | 21.1 | 0 | 0.0 |
| McAllen, Tex | 74 | 32 | 43.2 | 42 | 56.8 | 0 | 0.0 |
| Memphis, Tenn | 94 | 88 | 93.6 | 6 | 6.4 | 0 | 0.0 |
| Miami, Fla | 291 | 114 | 39.2 | 175 | 60.1 | 2 | 0.7 |
| Middlesex, NJ | 75 | 12 | 16.0 | 63 | 84.0 | 0 | 0.0 |
| Milwaukee, Wis | 32 | 20 | 62.5 | 12 | 37.5 | 0 | 0.0 |
| Minneapolis-St. Paul, Minn | 201 | 33 | 16.4 | 167 | 83.1 | 1 | 0.5 |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

## Table 43. (Cont'd) Tuberculosis Cases, U.S.-born Persons and Foreign-born Persons: Metropolitan Statistical Areas with ≥500,000 Population, 2001

| Metropolitan Statistical Area | Total Cases | U.S.-born Persons | | Foreign-born Persons[1] | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % |
| Mobile, Ala | 34 | 31 | 91.2 | 3 | 8.8 | 0 | 0.0 |
| Monmouth-Ocean City, NJ | 33 | 14 | 42.4 | 19 | 57.6 | 0 | 0.0 |
| Nashville, Tenn | 89 | 65 | 73.0 | 24 | 27.0 | 0 | 0.0 |
| Nassau-Suffolk, NY | 162 | 50 | 30.9 | 112 | 69.1 | 0 | 0.0 |
| New Haven, Conn | 73 | 29 | 39.7 | 40 | 54.8 | 4 | 5.5 |
| New Orleans, La | 107 | 97 | 90.7 | 9 | 8.4 | 1 | 0.9 |
| New York, NY | 1,356 | 378 | 27.9 | 777 | 57.3 | 201 | 14.8 |
| Newark, NJ | 178 | 82 | 46.1 | 96 | 53.9 | 0 | 0.0 |
| Norfolk, Va | 38 | 31 | 81.6 | 6 | 15.8 | 1 | 2.6 |
| Oakland, Calif | 313 | 95 | 30.4 | 217 | 69.3 | 1 | 0.3 |
| Oklahoma City, Okla | 60 | 42 | 70.0 | 18 | 30.0 | 0 | 0.0 |
| Omaha, Neb | 23 | 8 | 34.8 | 14 | 60.9 | 1 | 4.3 |
| Orange County, Calif | 278 | 44 | 15.8 | 234 | 84.2 | 0 | 0.0 |
| Orlando, Fla | 138 | 101 | 73.2 | 37 | 26.8 | 0 | 0.0 |
| Philadelphia, Pa | 223 | 112 | 50.2 | 110 | 49.3 | 1 | 0.4 |
| Phoenix, Ariz | 174 | 81 | 46.6 | 90 | 51.7 | 3 | 1.7 |
| Pittsburgh, Pa | 59 | 40 | 67.8 | 19 | 32.2 | 0 | 0.0 |
| Portland, Ore | 71 | 18 | 25.4 | 53 | 74.6 | 0 | 0.0 |
| Providence, RI | 58 | 20 | 34.5 | 38 | 65.5 | 0 | 0.0 |
| Raleigh-Durham, NC | 74 | 35 | 47.3 | 39 | 52.7 | 0 | 0.0 |
| Richmond, Va | 36 | 21 | 58.3 | 14 | 38.9 | 1 | 2.8 |
| Riverside-San Bernardino, Calif | 149 | 60 | 40.3 | 87 | 58.4 | 2 | 1.3 |
| Rochester, NY | 37 | 22 | 59.5 | 15 | 40.5 | 0 | 0.0 |
| Sacramento, Calif | 138 | 30 | 21.7 | 95 | 68.8 | 13 | 9.4 |
| St. Louis, Mo | 75 | 52 | 69.3 | 23 | 30.7 | 0 | 0.0 |
| Salt Lake City, Utah | 30 | 12 | 40.0 | 18 | 60.0 | 0 | 0.0 |
| San Antonio, Tex | 82 | 61 | 74.4 | 21 | 25.6 | 0 | 0.0 |
| San Diego, Calif | 332 | 105 | 31.6 | 227 | 68.4 | 0 | 0.0 |
| San Francisco, Calif | 275 | 67 | 24.4 | 208 | 75.6 | 0 | 0.0 |
| San Jose, Calif | 215 | 11 | 5.1 | 201 | 93.5 | 3 | 1.4 |
| Sarasota, Fla | 27 | 20 | 74.1 | 7 | 25.9 | 0 | 0.0 |
| Scranton, Pa | 15 | 10 | 66.7 | 5 | 33.3 | 0 | 0.0 |
| Seattle, Wash | 167 | 38 | 22.8 | 129 | 77.2 | 0 | 0.0 |
| Springfield, Mass | 15 | 4 | 26.7 | 11 | 73.3 | 0 | 0.0 |
| Stockton, Calif | 51 | 16 | 31.4 | 35 | 68.6 | 0 | 0.0 |
| Syracuse, NY | 20 | 15 | 75.0 | 5 | 25.0 | 0 | 0.0 |
| Tacoma, Wash | 22 | 6 | 27.3 | 16 | 72.7 | 0 | 0.0 |
| Tampa-St. Petersburg, Fla | 121 | 83 | 68.6 | 38 | 31.4 | 0 | 0.0 |
| Toledo, Ohio | 10 | 8 | 80.0 | 2 | 20.0 | 0 | 0.0 |
| Tucson, Ariz | 45 | 22 | 48.9 | 23 | 51.1 | 0 | 0.0 |
| Tulsa, Okla | 34 | 30 | 88.2 | 3 | 8.8 | 1 | 2.9 |
| Vallejo, Calif | 37 | 11 | 29.7 | 26 | 70.3 | 0 | 0.0 |
| Ventura, Calif | 52 | 11 | 21.2 | 40 | 76.9 | 1 | 1.9 |
| Washington, DC | 380 | 103 | 27.1 | 274 | 72.1 | 3 | 0.8 |
| West Palm Beach, Fla | 79 | 33 | 41.8 | 46 | 58.2 | 0 | 0.0 |
| Wichita, Kan | 22 | 9 | 40.9 | 13 | 59.1 | 0 | 0.0 |
| Wilmington, Del | 16 | 6 | 37.5 | 10 | 62.5 | 0 | 0.0 |
| Youngstown, Ohio | 11 | 11 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| **Total - 103 Areas** | **12,239** | **5,160** | **42.2** | **6,827** | **55.8** | **252** | **2.1** |

[1]Includes persons born outside the United States, American Samoa, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, Midway Island, the Commonwealth of the Northern Mariana Islands, Puerto Rico, the Republic of Palau, U.S. Minor Outlying Islands, U.S. Miscellaneous Pacific Islands, and the U.S. Virgin Islands.

# Appendix A

## Technical Notes

### National Surveillance for Tuberculosis

All reporting areas (i.e., the 50 states, the District of Columbia, New York City, Puerto Rico, and other U.S. jurisdictions in the Pacific and Caribbean) report tuberculosis (TB) cases to CDC using a standard case report form, Report of a Verified Case of Tuberculosis (RVCT).[1] Reported TB cases are verified according to the TB case definition for public health surveillance (*MMWR* 1997;46[No. RR-10]:40-1). Cases may be verified using the laboratory or clinical case definition. A case may be verified by the laboratory case definition either by (1) isolation of *M. tuberculosis* from a clinical specimen, OR (2) demonstration of acid-fast bacilli (AFB) in a clinical specimen when a culture has not been or cannot be obtained. A case may be verified by the clinical case definition in the presence of ALL of the following clinical criteria: (a) a positive tuberculin skin test result, (b) other signs and symptoms compatible with TB, such as an abnormal, unstable (worsening or improving) chest radiograph, or clinical evidence of current disease, (c) treatment with two or more antituberculosis medications, and (d) a completed diagnostic evaluation. When patients are diagnosed with TB but do not meet the case definition (e.g., anergic patients with a clinical picture consistent with TB but without laboratory evidence of *M. tuberculosis*), reporting areas also have the option of verifying TB cases based on provider diagnosis.

In January 1993, in conjunction with state and local health departments, CDC implemented an expanded surveillance system for TB that would collect additional data to better monitor and target groups at risk for TB disease, to estimate and follow the extent of drug-resistant TB, and to evaluate outcomes of TB cases. The RVCT form for reporting TB cases was revised to collect information on occupation, the initial drug regimen, human immunodeficiency virus (HIV) test results, history of substance abuse and homelessness, and residence in correctional or long-term care facilities at the time of diagnosis. RVCT Follow Up Report-1 was added to collect drug susceptibility results for the initial *M. tuberculosis* isolate from patients with culture-positive disease. To evaluate the outcomes of TB therapy, RVCT Follow Up Report-2 was added to collect information on the reason and date therapy was stopped, the type of health care provider, sputum culture conversion, the use of directly observed therapy, and the results of drug susceptibility testing for the final *M. tuberculosis* isolate from patients with culture-positive disease. Since 1993, RVCT data have been reported to CDC using software specifically developed for expanded TB surveillance (i.e., SURVS-TB, 1993-1997; TIMS, 1998-2001). The instructions for completing the RVCT forms and the definitions for all data items were included in the software user's guide. The summary data presented in this publication for 2001 (and for 1999, Tables 35-37) and the trend data for 1993-2001 (Tables 8-11) were received at CDC via TIMS by April 10, 2002.

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[1]Other U.S. jurisdictions include American Samoa, the Commonwealth of the Northern Mariana Islands, the Federated States of Micronesia, Guam, the Republic of the Marshall Islands, the Republic of Palau, and the U.S. Virgin Islands. RVCT data for 2000 were available from the Commonwealth of the Northern Mariana Islands and Guam.

**Completion of Tuberculosis Therapy**

Tables 10 and 37 present rates of completion of TB therapy (COT). Data collected by RVCT Follow Up Report-2 on date and reason therapy stopped (e.g., patient completed therapy, moved, was lost) were used to calculate rates of COT. Cases were stratified by the indicated length of therapy, based on current American Thoracic Society/CDC treatment guidelines[2] and the patient's initial drug susceptibility test results, age, and site of disease. The adequacy of the treatment regimen (e.g., the sufficiency of the duration of therapy, the appropriateness of the prescribed TB drugs) was not evaluated in this analysis. Acquired drug resistance during therapy with the need for a longer duration of therapy was also not considered in this analysis.

In Table 37, the first column shows the total number of cases reported during 1999. The remaining columns are grouped under three headings: therapy of 1 year or less indicated, therapy greater than 1 year indicated, and overall. For patients with an initial isolate resistant to rifampin and for pediatric patients (age under 15 years old) with meningeal, bone or joint, or miliary disease, data were included under the category of greater than 1 year of therapy indicated. For all other patients, including those with culture-negative disease, those with an unknown culture status, and those with culture-positive disease but unknown initial drug susceptibility test results, data were included under the category of 1 year or less of therapy indicated. Table 10 presents data only for the category of therapy of 1 year or less indicated.

In Table 37, each group under an indicated length of therapy has an initial column showing the number of cases in persons who were alive at diagnosis and prescribed an initial regimen of one or more drugs, and who did not die during therapy. This number was used as the denominator in COT rate calculations. COT rates, shown as percentages, were only calculated for areas reporting reason therapy stopped for at least 90% of cases shown in the overall column. For the group with an indicated length of therapy of 1 year or less, rates are shown for both COT in 1 year or less (COT $\leq$1 year) and for COT, regardless of duration (i.e., duration of therapy $\leq$1 year, >1 year, or unknown). For COT $\leq$1 year, the numerator included only those patients completing therapy in $\leq$365 days (based on the dates therapy started and stopped). Patients with missing dates were classified as "treatment not completed" for this calculation. Rates of COT, regardless of duration, were calculated by dividing the number of patients reported as having completed therapy by the number of patients listed in the first column of each group. Patients with an outcome other than completed therapy (i.e., moved, lost, refused treatment, and other) were classified as "treatment not completed." Patients with an unknown outcome were also classified as "treatment not completed." For the remaining two groups of indicated therapy length (greater than 1 year and overall), only rates of COT, regardless of duration, are presented. Table 10 provides rates for COT $\leq$1 year and for COT, regardless of duration, only for the group with an indicated therapy of 1 year or less.

*Acknowledgment: Tables 10 and 37 were developed in collaboration with the Field Services Branch, Division of Tuberculosis Elimination, CDC.*

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[2]ATS/CDC. Treatment of tuberculosis and tuberculosis infection in adults and children. *Am J Respir Crit Care Med* 1994;149:1359-74.

**Site of TB Disease**

Miliary disease is classified as both an extrapulmonary and a pulmonary form of TB (Tables 6, 7, 23, 24, and 40). In publications prior to 1997, miliary disease was classified as extrapulmonary TB unless pulmonary disease was reported as the major site of TB disease.

**Reporting of HIV Infection**

Table 33 shows information on HIV status for TB cases among persons aged 25-44 years, the age group in which 74% of AIDS cases occur (CDC. *HIV/AIDS Surveillance Report* 2001;13[No. 1]:14). The information on HIV status for TB cases reported in 2001 is incomplete. Reasons for incomplete reporting of HIV test results to the national surveillance system include concerns about confidentiality, which may limit the exchange of data between TB and HIV/AIDS programs; laws and regulations in certain states and local jurisdictions that have been interpreted as prohibiting the HIV/AIDS program from sharing the HIV status of TB patients with the TB program, or from reporting patients with TB and AIDS to the TB program; and reluctance by health care providers to report HIV test results to the TB surveillance program staff. In addition, health care providers may not offer counseling and HIV testing to some TB patients because of a lack of resources or of appropriately trained staff, or due to the perception that selected patients (e.g., foreign-born persons) are not at risk for HIV infection.

Data on the HIV infection status of reported TB cases in 2001 should be interpreted with caution. These data are not representative of all TB patients with HIV infection. HIV testing is performed after a patient receives counseling and gives informed consent. Since testing is voluntary, some TB patients may decline HIV testing. TB patients who are tested anonymously may choose not to share the results of HIV testing with their health care provider. TB patients managed in the private sector may receive confidential HIV testing, but results may not be reported to the TB program in the health department. In addition, many factors may influence HIV testing of TB patients, including the extent to which testing is targeted or routinely offered to specific groups (e.g., 25- to 44 year-old males, injecting drug users, homeless persons), and the availability of and access to HIV testing services. These data do not provide a minimum estimate of the proportion of TB patients known to be HIV infected in a reporting area.

**Tabulation and Presentation of TB Data**

This report primarily presents summary data for TB cases reported to CDC in 2001. Data from the RVCT Follow Up Report-2 (i.e., completion of therapy, use of directly observed therapy, and type of health care provider) are presented for cases reported in 1999. In addition, trend data are presented in Tables 1 through 11. TB cases are tabulated by the year in which the reporting area verified that the patient had TB and included the patient in its official annual TB case count. Totals for the United States only include data from the 50 states, the District of Columbia, and New York City. Age group tabulations are based on the patient's age in the month and year the patient was reported to the health department as a suspected TB case. State or metropolitan area data tabulations are based on the patient's residence at diagnosis of TB (see Appendix C: "Recommendations for Counting Reported Tuberculosis Cases").

Tables 39 through 43 present data by metropolitan statistical areas (MSAs) with an estimated 2001 population of 500,000 or more. Metropolitan areas are defined by the federal Office of Management and Budget, and the definitions effective as of June 30, 1999, were used for this publication (www.census.gov/population/www/estimates/metrodef.html). The metropolitan area definitions apply to all areas except the six New England states; for these states, the New England County Metropolitan Areas (NECMAs) are used. Metropolitan areas are named for a central city in the MSA or NECMA, may include several cities and counties, and may cross state boundaries. For example,

the TB cases and case rates presented for the District of Columbia in Table 17 include only persons residing within the geographic boundaries of the District. However, the TB cases and case rates for Washington, D.C. (Table 39), include persons residing within the several counties in the metropolitan area, including counties in Maryland, Virginia, and West Virginia.

**Rates**

Rates are expressed as the number of cases reported each calendar year per 100,000 population. Population denominators used in calculating TB rates were based on official census and midyear (July 1) postcensus estimates from the U.S. Census Bureau. Specifically, in Tables 1 and 17, the U.S. total and state populations for 2001 were obtained from the U.S. Census Bureau Table St-20001EST-01-Time Series of State Population Estimates: April 1, 2000, to July 1, 2001, located at http://eire.census.gov/popest/data/states/tables/St-EST2001-01.php. To calculate rates in Tables 2, 3, and 13, the age, sex, and race/ethnicity proportions from the U.S. Census Bureau July 1, 2000, population estimates were applied to the July 1, 2001, total national population to estimate the age, sex, and race/ethnicity subpopulations. In Table 4, the populations for U.S.-born and foreign-born persons for 1990-1999 were obtained from *Quarterly Estimates of the United States Foreign-born and Native Resident Populations: April 1, 1990, to July 1, 1999 (*www.census.gov/population/estimates/nation/ nativity/ fbtab001.txt). To calculate the rates for 2000 and 2001, population estimates reported in the U.S. Census Bureau Current Population Reports, P20-534, *The Foreign-born Population in the United States: March 2000*, were extrapolated to the April 2000 Census population and the July 1, 2001, population.

**Mortality Data**

Official TB mortality statistics for the United States are compiled by the National Center for Health Statistics (NCHS), CDC. The annual mortality rate is calculated as the number of deaths due to TB in that year, divided by the estimated population for the year, multiplied by 100,000 (Table 1). The number of deaths for 1999 and 2000 was obtained from the NCHS *National Vital Statistics Reports*, Vol. 49, No. 12, October 9, 2001. The number of deaths for 2001 was not available at the time of this publication.

# Appendix B

## Tuberculosis Case Definition for Public Health Surveillance[1]

### Tuberculosis (Revised 9/96)

**Clinical description**

A chronic bacterial infection caused by *Mycobacterium tuberculosis*, characterized pathologically by the formation of granulomas. The most common site of infection is the lung, but other organs may be involved.

**Clinical case definition**

A case that meets the following criteria:

- A positive tuberculin skin test
- Other signs and symptoms compatible with tuberculosis (e.g., an abnormal, unstable [i.e., worsening or improving] chest radiographs, or clinical evidence of current disease)
- Treatment with two or more antituberculosis medications
- Completed diagnostic evaluation

**Laboratory criteria for diagnosis**

- Isolation of *M. tuberculosis* from a clinical specimen* or
- Demonstration of *M. tuberculosis* from a clinical specimen by nucleic acid amplification test†, or
- Demonstration of acid-fast bacilli in a clinical specimen when a culture has not been or cannot be obtained.

**Case classification**

Confirmed: a case that meets the clinical case definition or is laboratory confirmed

**Comment**

A case should not be counted twice within any consecutive 12-month period. However, cases in which the patients had previously had verified disease should be reported again if the patients were discharged from treatment. Cases also should be reported again if patients were lost to supervision for >12 months and disease can be verified again. Mycobacterial diseases other than those caused by *M. tuberculosis* complex should not be counted in tuberculosis morbidity statistics unless there is concurrent tuberculosis.

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[1]*CDC. Case definitions for infectious conditions under public health surveillance. MMWR 1997;46(No. RR-10):40-41.*

*Use of rapid identification techniques for *M. tuberculosis* (e.g., DNA probes and mycolic acids high-pressure liquid chromatography performed on a culture from a clinical specimen) are acceptable under this criterion.

†Nucleic acid amplification (NAA) tests must be accompanied by culture for mycobacteria species. However, for surveillance purposes, CDC will accept results obtained from NAA tests approved by the Food and Drug Administration (FDA) and used according to the approved product labeling on the package insert.

# Appendix C

## Recommendations for Counting Reported Tuberculosis Cases (Revised July 1997)

Since publication of the "Recommendations for Counting Reported Tuberculosis Cases"[1] in January 1977, numerous changes have occurred and many issues have been raised within the field of tuberculosis (TB) surveillance. This current version updates and supersedes the previous version; it clarifies the parameters for counting TB cases among (a) immigrants, resident aliens, and border crossers, (b) military personnel stationed in the United States and abroad, and (c) persons diagnosed within the Indian Health Service and correctional facilities.

A distinction should be made between ***reporting*** TB cases to a health department and ***counting*** TB cases for determining incidence of disease. Throughout each year, TB cases and suspected cases are reported to public health authorities by sources such as clinics, hospitals, laboratories, and health care providers. From these reports, the state or local TB control officer must determine which cases meet the current surveillance definition for TB disease. These verified TB cases are then counted and reported to the Centers for Disease Control and Prevention (CDC).

**I. Reporting TB Cases**.—CDC recommends that health care providers and laboratories be required to report all TB cases or suspected cases to state and local health departments based on the current "Case Definition for Public Health Surveillance."[2] This notification is essential in order for TB programs to

- Ensure case supervision
- Ensure completion of appropriate therapy
- Ensure completion of timely contact investigations
- Evaluate program effectiveness
- Assess trends and characteristics of TB morbidity

**II. TB Surveillance**.—For purposes of surveillance, a case of TB is defined on the basis of laboratory and/or clinical evidence of active disease due to *M. tuberculosis* complex.*

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****Mycobacterium tuberculosis* complex** (*M. tuberculosis* complex) consists of three mycobacterial species: *M. tuberculosis, M. bovis,* and *M. africanum*. These species are identical in DNA homology studies. In terms of their ability to cause clinical disease and be transmissible from person to person, *M. bovis* and *M. africanum* behave like *M. tuberculosis*; therefore, disease caused by any of the three organisms should be reported as TB, using the Report of Verified Case of Tuberculosis (RVCT). The only exception is the BCG strain of *M. bovis*, which may be isolated from persons who have received the vaccine for protection against TB or as cancer immunotherapy; disease caused by this *M. bovis* strain should not be reported as TB because the transmission is iatrogenic (treatment-induced), rather than person-to-person or communicable.

**a. Laboratory Case Definition**.

- Isolation of *M. tuberculosis* complex from a clinical specimen. The use of rapid-identification techniques for *M. tuberculosis* performed on a culture from a clinical specimen, such as DNA probes and high-pressure liquid chromatography (HPLC), is acceptable under this criterion.

**OR**

- Demonstration of *M. tuberculosis* from a clinical specimen by nucleic acid amplification (NAA) test. NAA tests must be accompanied by cultures of mycobacterial species. However, for surveillance purposes, CDC will accept results obtained from NAA tests that are approved by the Food and Drug Administration (FDA). Current FDA-approved NAA tests are only approved for use on smear-positive respiratory specimens.

**OR**

- Demonstration of acid-fast bacilli (AFB) in a clinical specimen when a culture has not been or cannot be obtained; historically this criterion has been most commonly used to diagnose TB in the postmortem setting.

**b. Clinical Case Definition**.—In the absence of laboratory confirmation of *M. tuberculosis* complex after a diagnostic process has been completed, persons must have **all** of the following criteria for clinical TB:

- Evidence of TB infection based on a positive tuberculin skin test

**AND**

- One of the following:
  (1) Signs and symptoms compatible with current TB disease, such as an abnormal, unstable (worsening or improving) chest radiograph, or
  (2) Clinical evidence of current disease (e.g., fever, night sweats, cough, weight loss, hemoptysis)

**AND**

- Current treatment with two or more anti-TB medications

***NOTE:*** *The case definition described herein was developed for use in this document and is not intended to replace the case definition for TB as stated in the current "Case Definitions for Infectious Conditions Under Public Health Surveillance."*

*In addition, the software for TB surveillance developed by CDC includes a calculated variable called "Vercrit," for which one of the values is "Provider Diagnosis." "Provider Diagnosis" is selected when the user chooses to override a "Suspect" default value in the case verification*

*screen as "Verified by Provider Diagnosis." Thus, "Provider Diagnosis" is not a component of the case definition for TB in the current "Case Definitions for Infectious Conditions Under Public Health Surveillance" publication. CDC's national morbidity reports have traditionally included all cases that are considered verified by the reporting areas, without a requirement that cases meet the published case definition.*

**III. Counting TB Cases**.—Cases that meet the current CDC surveillance case definition for verified TB are counted by 52 reporting areas with count authority (50 states, District of Columbia, and New York City) to determine annual incidence for the United States. The remaining 7 reporting areas (American Samoa, Federated States of Micronesia, Guam, Northern Mariana Islands, Puerto Rico, Republic of Palau, and the U.S. Virgin Islands) report cases to the CDC but are not included in the annual incidence for the United States. Laboratory and clinical case definitions are the two primary diagnostic categories used by the CDC "Case Definitions for Infectious Conditions Under Public Health Surveillance."

Most verified TB cases are accepted for counting based on laboratory confirmation of *M. tuberculosis* complex from a clinical specimen.

A person may have more than one discrete (separate and distinct) episode of TB. If disease recurs in a person within any 12-consecutive-month period, count only one episode as a case for that year. However, if TB disease recurs in a person, **and** if more than 12 months have elapsed since the person was discharged from or lost to supervision, the TB is considered a separate episode and should be counted as a new case.

Mycobacterial diseases other than those caused by *M. tuberculosis* complex should not be counted in TB morbidity statistics unless there is concurrent TB.

**a. Verified TB Cases**.

**COUNT**

Count only verified TB cases that meet the laboratory or clinical case definitions (see Section II). The diagnosis of TB must be verified by the TB control officer or designee. The current CDC surveillance case definition for TB describes and defines the criteria to be used in the case definition for TB disease.

**DO NOT COUNT**

If diagnostic procedures have not been completed, do not count; wait for confirmation of disease. Do not count a case for which two or more anti-TB medications have been prescribed for preventive therapy for exposure to multidrug-resistant (MDR) TB, or while the diagnosis is still pending.

**b. Nontuberculous Mycobacterial Diseases (NTM).**

**COUNT**

An episode of TB disease diagnosed concurrently with another nontuberculous mycobacterial disease should be counted as a TB case.

**DO NOT COUNT**

Disease attributed to or caused by nontuberculous mycobacteria alone should not be counted as a TB case.

**c. TB Cases Reported at Death.**

**COUNT**

TB cases first reported to the health department at the time of a person's death are counted as incident cases provided that the person had current disease at the time of death. The TB control officer should verify the diagnosis of TB.

**DO NOT COUNT**

Do not count as a case of TB if there is no evidence of current disease at the time of death or at autopsy.

**d. Immigrants, Refugees, Permanent Resident Aliens, Border Crossers,* and Foreign Visitors.**[4]

**COUNT**

Immigrants and refugees who have been screened overseas for TB and

- have been classified as Class B (B1, B2, or B3)[3] or resident aliens
- are not already on anti-TB medications for treatment of tuberculous disease, and
- are examined after arriving in the United States and diagnosed with clinically active TB requiring anti-TB medications

should be counted by the locality of their current residence at the time of diagnosis regardless of citizenship status.

Border crossers* and permanent resident aliens who are diagnosed with TB and plan to receive anti-TB therapy from a locality in the United States for 90 days or more should be counted by the locality where they receive anti-TB therapy.

Foreign visitors (e.g., students, commercial representatives, and diplomatic personnel) who are diagnosed with TB, are receiving anti-TB therapy, **and** plan to remain in the United States for 90 days or more should be counted by the locality of current residence.

*Border crosser - defined, in part, by the Immigration and Naturalization Service (INS)[4] as "a nonresident alien entering the United States across the Mexican border for stays of no more than 72 hours." Border crossers may go back and forth across the border many times in a short period.

**DO NOT COUNT**

TB cases in immigrants or refugees who have been classified as Class A with a waiver (TB, infectious, "Noncommunicable for travel purposes")[3] should not be counted as new cases even if the persons receive routine initial work-ups in the United States.

TB in persons who are temporarily (<90 days) in the United States, for whom therapy may have been started but who plan to return to their native country to continue therapy, should

not be counted in the United States.

**e. Out-of-State or Out-of-Area Residents.**

**COUNT**

A person's TB case should be counted by the locality in which he or she resides at the time of diagnosis. TB in a person who has no address should be counted by the locality that diagnosed and is treating the TB. The TB control officer should notify the appropriate out-of-state or out-of-area TB control officer of the person's home locality to (1) determine whether the case has already been counted to avoid "double counting," and (2) agree on which TB control office should count the case if it has not yet been counted.

**DO NOT COUNT**

Do not count a case in a newly diagnosed TB patient who is an out-of-area resident and whose TB has already been counted by the out-of-area TB control office.

**f. Migrants and Other Transients**.

**COUNT**

Persons without any fixed U.S. residence are considered to be the public health responsibility of their present locality and their TB case should be reported and counted where diagnosed.

**DO NOT COUNT**

Cases in transient TB patients should not be counted when there is evidence that they have already been counted by another locality.

**g. Federal Facilities (e.g., Military and Veterans Administration Facilities)**.

**COUNT**

Cases in military personnel, dependents, or veterans should be reported and counted by the locality where the persons are residing in the United States at the time of diagnosis and initiation of treatment.

However, if military personnel or dependents are discovered to have TB at a military base outside the United States but are referred elsewhere for treatment (e.g., a military base located within the United States), the TB case should be reported and counted where treated and not where the diagnosis was made.

**DO NOT COUNT**

Do not count if the case was already counted by another locality in the United States.

**h. Indian Health Service.**

**COUNT**

TB should be reported to the local health authority (e.g., state or county) and counted where diagnosed and treatment initiated. However, for a specific group such as the Navajo Nation, which is geographically located in multiple states, health departments should discuss each case and determine which locality should count the case.

**DO NOT COUNT**

Do not count if the case was already counted by another locality.

**i. Correctional Facilities (e.g., Local, State, Federal, and Military)**.

**COUNT**

Persons who reside in local, state, federal, or military correctional facilities may frequently be transferred or relocated within and/or between various correctional facilities. TB in these persons should be reported to the local health authority and counted by the locality where the diagnosis was made and treatment plans were initiated.

**DO NOT COUNT**

Do not count correctional facility residents' TB cases that were counted elsewhere by another locality or correctional facility, even if treatment continues at another locale or correctional facility.

**j. Peace Corps, Missionaries, and Other Citizens Residing Outside the United States.**

**DO NOT COUNT**

TB in persons diagnosed outside the United States should not be counted. TB in these persons should be counted by the country in which they are residing regardless of their plans to return to the United States for further work-up or treatment.

**IV. Suggested Administrative Practices.**—To promote uniformity in TB case counting, the following administrative procedures are recommended:

(a) All TB cases verified during the calendar year by the 52 reporting areas with count authority (50 states, District of Columbia, and New York City) by December 31 will be included in the annual U.S. incidence count for that year. All tuberculosis cases verified during the calendar year by a reporting area with count authority from one of the remaining 7 reporting areas (American Samoa, Federated States of Micronesia, Guam, Northern Mariana Islands, Puerto Rico, Republic of Palau, and the U.S. Virgin Islands) are also counted but are not included in the annual incidence for the United States. Cases for which bacteriologic results are pending or for which confirmation of disease is questionable for any other reason should not be counted until their status is clearly determined; they should be counted at the time they meet the criteria for counting. This means that a case reported in one calendar year could be included in the morbidity count for the following year. The reporting area with count authority should ensure that there is agreement between final local and state TB figures reported to CDC. Currently, some reporting areas may not use this suggested protocol. Some of these areas may wait until the beginning of the following year when they have received and processed all of the TB cases for inclusion in the annual case count for the previous year. If reporting areas decide to revise their protocols, they should be aware that TB trends may change.

(b) TB is occasionally reported to health departments over the telephone, by letter or fax, or on forms other than the Report of Verified Case of Tuberculosis (RVCT). Such information should be accepted as an official morbidity report if sufficient details are provided; otherwise,

the notification should be used as an indicator of a possible TB case (suspect) which should be investigated promptly for confirmation.

## V. TB Surveillance Definitions.

**Case** - an episode of TB disease in a person meeting the laboratory or clinical criteria for TB as defined in the document "Case Definitions for Infectious Conditions Under Public Health Surveillance"[2] (see Section II for criteria).

**Suspect** - a person for whom there is a high index of suspicion for active TB (e.g., a known contact to an active TB case or a person with signs/symptoms consistent with TB) who is currently under evaluation for TB disease.

**Verification of a TB case** - the process whereby a TB case, after the diagnostic evaluation is complete, is reviewed at the local level (e.g., state or county) by a TB control official who is familiar with TB surveillance definitions; if all the criteria for a TB case are met, the TB case is then verified and eligible for counting.

**Counting of a TB case** - the process whereby a reporting area with count authority evaluates verified TB cases (e.g., assesses for case duplication). These cases are then counted for morbidity in that locality (e.g., state or county) and reported to CDC for national morbidity counting.

***Mycobacterium tuberculosis* complex** (*M. tuberculosis* complex) - consists of three mycobacterial species: *M. tuberculosis, M. bovis,* and *M. africanum*. These species are identical in DNA homology studies. In terms of their ability to cause clinical disease and to be transmissible from person to person, *M. bovis* and *M. africanum* behave like *M. tuberculosis*; therefore, disease caused by any of the three organisms should be reported as TB, using the Report of Verified Case of Tuberculosis (RVCT). The only exception is the BCG strain of *M. bovis*, which may be isolated from persons who have received the vaccine to protect against TB or as cancer immunotherapy; disease caused by this *M. bovis* strain should not be reported as TB because the transmission is iatrogenic (treatment-induced), rather than person-to-person or communicable.

**Nontuberculous mycobacteria (NTM)** - mycobacteria other than *Mycobacterium tuberculosis* complex that can cause human infection or disease. Common nontuberculous mycobacteria include *M. avium* complex or MAC (*M. avium, M. intracellulare*), *M. kansasii, M. marinum, M. scrofulaceum, M. chelonae, M. fortuitum,* and *M. simiae*. Other terms have been used to represent NTM, including MOTT (mycobacteria other than TB) and "atypical" mycobacteria.

**Reporting area** - areas responsible for counting and reporting verified TB cases to CDC. Currently there are 59 reporting areas; 50 states, District of Columbia, New York City, American Samoa, Federated States of Micronesia, Guam, Northern Mariana Islands, Puerto Rico, Republic of Palau, and the U.S. Virgin Islands. Annual incidence of tuberculosis for the United States is based on 52 reporting areas (50 states, District of Columbia, and New York City).

**Alien** - defined by the Immigration and Naturalization Service (INS)[4] as "any person not a citizen or national of the United States."

**Border crosser** - defined, in part, by the Immigration and Naturalization Service (INS)[4] as "a nonresident alien entering the United States across the Mexican border for stays of no more than 72 hours." Border crossers may go back and forth across the border many times in a short period.

**Class A (TB, Infectious)** - defined by the Division of Quarantine[3] as an alien "with an abnormal chest radiograph or series of chest radiographs suggestive of current pulmonary TB and one or more positive sputum smear examinations for acid-fast bacilli." This person is not authorized to enter the United States unless a waiver has been granted (see definition for Class A - TB, Infectious, "Noncommunicable for travel purposes.")

**Class A (TB, Infectious, "Noncommunicable for travel purposes")** - defined by the Division of Quarantine[3] as an alien "with an abnormal chest radiograph or series of chest radiographs suggestive of active TB, a history of one or more positive sputum smear examinations for acid-fast bacilli, currently on recommended treatment, and sputum smears that are negative for acid-fast bacilli on 3 consecutive days." This person is authorized to enter the United States if a waiver has been granted.

**Class B1 (TB, clinically active, not infectious)** - defined by the Division of Quarantine[3] as an alien "with an abnormal chest radiograph or series of chest radiographs suggestive of active TB, and sputum smears that are negative for acid-fast bacilli on 3 consecutive days." This person may be on anti-TB medications when entering the United States.

**Class B1 (Extrapulmonary TB, clinically active, not infectious)** - defined by the Division of Quarantine[3] as an alien "with radiographic or other evidence of extrapulmonary TB, clinically active." This person may be on anti-TB medications when entering the United States.

**Class B2 (TB, not clinically active)** - defined by the Division of Quarantine[3] as an alien "with an abnormal chest radiograph or series of chest radiographs suggestive of active TB, not clinically active (e.g., fibrosis, scarring, pleural thickening, diaphragmatic tenting, blunting of costophrenic angles.) Sputum smears are not required." Such a person who "completed the recommended course of anti-TB therapy and whose chest radiographs are stable should be reported as Class B2 - TB, treatment completed." This person may be on anti-TB medications when entering the United States.

**Class B3 (Consistent with TB, old or healed)** - defined by the Division of Quarantine[3] as an alien "with an abnormal chest radiograph or series of chest radiographs (the only abnormality is a calcified lymph node, calcified primary complex, or calcified granuloma). Sputum smears are not required."

**Immigrant** - defined by the Immigration and Naturalization Service (INS)[4] as "an alien admitted to the United States as a lawful permanent resident. Immigrants are those persons lawfully accorded the privilege of residing permanently in the United States. They may be

issued immigrant visas by the Department of State overseas or adjusted to permanent resident status by the Immigration and Naturalization Service of the United States."

**Permanent Resident Alien** - see Immigrant.

**References**

1. *Recommendations for Counting Reported TB Cases*. Atlanta: CDC, January 1977.
2. CDC. Case definitions for infectious conditions under public health surveillance. *MMWR* 1997;46(No. RR-10):40-41.
3. *Technical Instructions for Medical Examination of Aliens*. Atlanta: CDC, Division of Quarantine, revised July 13, 1992.
4. *Statistical Yearbook of the Immigration and Naturalization Service, 1994*. Washington, DC: US Department of Justice, Immigration and Naturalization Service, 1995.

**Note:** Reference to details of FDA approved labeling for NAA (IIa) was deleted from this document in August 2002.