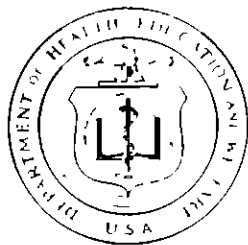


# **REPORTED TUBERCULOSIS DATA — 1964**



**U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE**  
**PUBLIC HEALTH SERVICE**

**REPORTED  
TUBERCULOSIS  
DATA—1964**

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
COMMUNICABLE DISEASE CENTER  
Tuberculosis Branch—Atlanta, Georgia 30333**

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## FOREWORD

“Reported Tuberculosis Data,” which is prepared annually by the Tuberculosis Branch of the Public Health Service, presents data and statistics on tuberculosis morbidity and mortality and includes recent information about the status of the disease in the United States. This publication supplements a number of related publications including “Tuberculosis Beds in Hospitals and Sanatoria” (Public Health Service Publication No. 801) and “Tuberculosis in the United States—Status of the Disease in the Early Sixties” (Public Health Service Publication No. 1036), and contains data for 1964 in detail.

In addition to providing tuberculosis statistics for the United States, this report points to changes that have influenced recent trends. It shows the geographic distribution of cases and some measure of the size of the tuberculosis problem.

Several items have been singled out for special emphasis to pinpoint the variety of components that require consideration in assessing the applicability and effectiveness of local, State, or national tuberculosis control activities. In its report to the Surgeon General of the Public Health Service, “The Future of Tuberculosis Control,” a special Task Force on Tuberculosis stated:

“Geographic distribution, distribution by age, race, and sex, and factors that increase risk need to be considered in order to direct tuberculosis control activities where they will be most effective.”

ALFONSO H. HOLGUIN, M.D.  
Chief, Tuberculosis Branch  
Communicable Disease Center

## TRENDS IN TUBERCULOSIS

In 1964 the number of new active tuberculosis cases and the case rate for the United States decreased markedly. The States reported 50,874 new active tuberculosis cases in 1964, or 3,168 fewer than the 54,042 that were recorded in the previous year. The relative magnitude of this one year reduction was proportionately as great as the average annual change for the decade prior to 1962. The new case rate for the United States was 26.6 per 100,000 population in 1964 as compared with 28.7 in 1963.

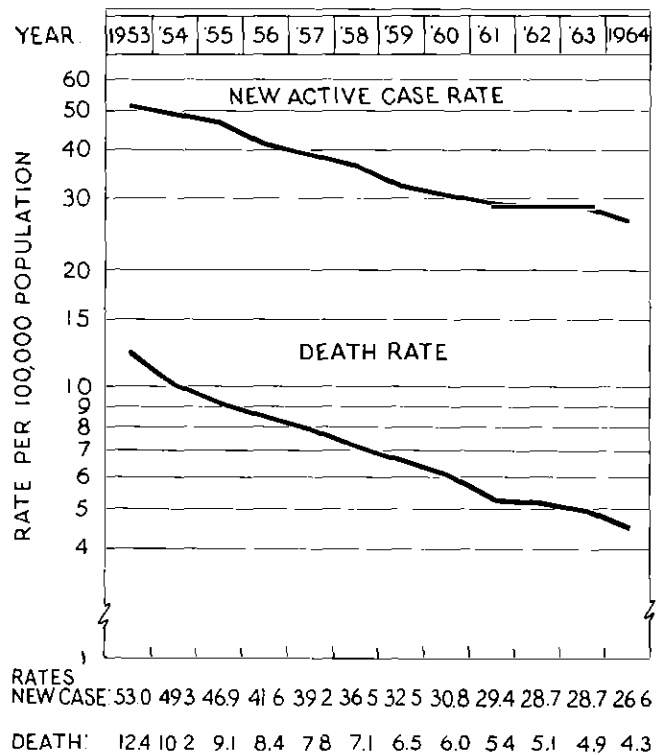
During the last two years there has been a marked improvement in the reporting of new cases. Most of the 1961 Public Health Service recommendations on the reporting of tuberculosis have been adopted by the States. All counties and major cities are being reported upon, even though in a few instances details are not available. Minor differences in interpreting the recommendations, however, still exist. These are being clarified to bring about uniform reporting practices throughout the entire country.

Seventeen States and the District of Columbia reported a combined increase of 774 new active cases in 1964, while thirty-three States reported a total of 3,942 fewer cases than in 1963. The greatest single change occurred in New York State where 834 fewer cases were recorded.

For the country as a whole, even though the total number of new cases decreased, the percent distribution of new active tuberculosis cases by age, sex, and race in 1964 was almost identical with 1963.

Totals for the United States are a composite and, therefore, new case rates for the country represent an average. As has been pointed out in earlier reports the nationwide figures are points of reference, and not standards by which the tuberculosis situation in a particular community can be assessed. An evaluation of tuberculosis trends in a specific State or city, is more realistic if the local data are compared with places having similar

FIGURE 1. *New active tuberculosis case rate and death rate, United States, 1953-1964*



NOTE: *Logarithmic scale*

demographic characteristics. In addition, the interpretation of tuberculosis trends for any particular community should also include the various elements of tuberculosis control that influence morbidity and mortality in that area.

The national statistics that follow contain some of the numerical components of tuberculosis epidemiology that should be taken into account when interpreting the trend of tuberculosis morbidity in any community. A number of studies have shown that factors that increase the risk of developing active disease are closely associated with the age, sex, race, and socio-economic status of a

susceptible population. Ongoing review and evaluation of such basic health statistics, in conjunction with other relevant data, can suggest more productive directions to be followed in conducting a rational tuberculosis control program.

One-third of all new active cases reported in 1964 were nonwhite. Since 1953 the proportion of nonwhite cases has increased from 26.2 percent to 33.9 percent. New cases and the rate for nonwhite males declined more slowly than for other segments of the population during this 12 year period. The one-year change from 1963 to 1964 was least for nonwhite females. Case rates, in contrast to numbers, continue to be from 3 to 6 times higher for nonwhites than for whites in the respective age-sex groups.

During 1964, a decrease of new active cases and lower case rates were recorded for each of the six age groups in the white and nonwhite population. At each age the number of cases for whites was greater than for nonwhites. The differences are greatest in age groups over 25. This disparity is

less pronounced in the younger ages and is quite small in the 5 to 14 age group. Nonwhites comprise more than 22 million of the total 191 million U.S. population in 1964. The nonwhite population in the United States is over 7 years younger than the white. The approximate median ages of persons with newly reported active tuberculosis are: White=49 years (male 52, female 41), nonwhite =38 years (male 41, female 32).

In 1964 of the 50,874 new active tuberculosis cases reported, 45,826 (90 percent) were pulmonary disease cases, 3,900 (8 percent) nonpulmonary cases, and for the remaining 1,148 cases (2 percent) the form of tuberculosis was not given. During the last decade, for the country as a whole, there has been little change in the ratios of pulmonary tuberculosis cases reported by stage of disease. The distribution in 1964 according to stage of disease was: Minimal 21.4 percent, moderately advanced 43.8 percent, and far advanced 34.8 percent. For the individual States these stage-of-disease ratios varied widely.

**TABLE 1**  
*Trend in new active tuberculosis cases and deaths: United States, 1953-1964*

Year	New active cases				Tuberculosis deaths				Cases per death
	Number	Change in cases (%)	Rate (a)	Change in rate (%)	Number (b)	Change in deaths (%)	Rate (a)	Change in rate (%)	
1953	84,304	.....	53.0	.....	19,707	.....	12.4	.....	4.3
1954	79,775	-5.4	49.3	-7.0	16,527	-16.1	10.2	-17.7	4.8
1955	77,368	-3.0	46.9	-4.9	15,016	-9.1	9.1	-10.8	5.2
1956	69,895	-9.7	41.6	-11.3	14,137	-5.9	8.4	-7.7	4.9
1957	67,149	-3.9	39.2	-5.8	13,390	-5.3	7.8	-7.1	5.0
1958	63,534	-5.4	36.5	-6.9	12,417	-7.3	7.1	-9.0	5.1
1959	57,535	-9.4	32.5	-11.0	11,474	-7.6	6.5	-8.5	5.0
1960	55,494	-3.5	30.8	-5.2	10,866	-5.3	6.0	-7.7	5.1
1961	53,726	-3.2	29.4	-4.5	9,938	-8.5	5.4	-10.0	5.4
1962	53,315	-0.8	28.7	-2.4	9,506	-4.3	5.1	-5.6	5.6
1963	54,042	+1.4	28.7	0.0	9,311	-2.1	4.9	-3.9	5.8
1964	50,874	-5.9	26.6	-7.3	8,303	-10.8	4.3	-12.2	6.1
Change 1953-1964									
Difference	-33,430	.....	-26.4	.....	-11,404	.....	-8.1	.....	.....
Percent	-39.7	.....	-49.8	.....	-57.9	.....	-65.3	.....	.....
Average Annual Change	.....	-4.4	.....	-6.0	.....	-7.5	.....	-9.1	.....

(a) Per 100,000 population.

(b) Data from National Center for Health Statistics.

NOTE: All years include data for Alaska and Hawaii.

**TABLE 2**  
*New active tuberculosis cases by age: United States, 1953-1964*

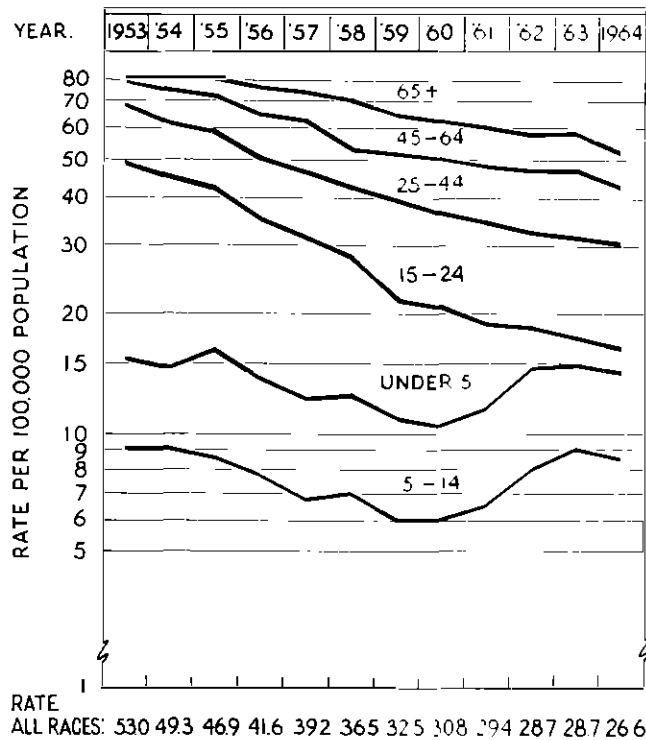
Year	Total	Under 5	5-14	15-24	25-44	45-64	65+
1953.....	84,304	2,719	2,525	10,412	31,488	25,838	11,322
1954.....	79,775	2,679	2,654	9,585	28,663	24,642	11,552
1955.....	77,368	2,976	2,603	8,725	27,094	24,307	11,663
1956.....	69,895	2,621	2,470	7,515	23,757	22,123	11,409
1957.....	67,149	2,405	2,213	6,866	22,308	21,934	11,423
1958.....	63,534	2,469	2,352	6,178	20,449	20,988	11,098
1959.....	57,535	2,209	2,113	5,281	18,364	19,063	10,505
1960.....	55,494	2,198	2,190	4,950	17,217	18,470	10,469
1961.....	53,726	2,429	2,457	4,596	16,240	17,737	10,267
1962.....	53,315	3,044	2,992	4,806	15,522	17,182	9,769
1963.....	54,042	3,080	3,405	4,733	15,097	17,496	10,231
1964.....	50,874	2,827	3,269	4,538	14,282	16,434	9,524

Percent distribution							
1953.....	100.0	3.2	3.0	12.4	37.4	30.6	13.4
1964.....	100.0	5.6	6.4	8.9	28.1	32.3	18.7

NOTE: (1) Cases for which age was not reported were distributed proportionately. (2) Data for all years include Alaska and Hawaii.

**FIGURE 2.** *New active tuberculosis case rates by age, United States, 1953-1964*



NOTE: *Logarithmic scale*

**TABLE 3**

*New active tuberculosis case rates\* by age: United States, 1953-1964*

Year	Total	Under 5	5-14	15-24	25-44	45-64	65+
1953	53.0	15.4	9.1	49.5	67.7	79.9	82.9
1954	49.3	14.9	9.1	45.5	61.2	75.0	81.9
1955	46.9	16.1	8.6	41.0	57.6	72.8	80.0
1956	41.6	13.8	7.8	35.0	50.3	65.2	76.1
1957	39.2	12.4	6.8	31.3	47.2	63.5	74.0
1958	36.5	12.5	7.0	27.1	43.4	59.9	70.1
1959	32.5	11.0	6.1	22.5	39.1	53.5	64.7
1960	30.8	10.8	6.1	20.5	36.8	51.1	62.9
1961	29.4	11.8	6.6	18.5	34.7	48.3	60.4
1962	28.7	14.7	8.0	18.2	33.3	46.1	56.4
1963	28.7	14.9	9.0	17.1	32.4	46.2	58.2
1964	26.6	13.7	8.5	15.6	30.6	42.7	53.3
Percent decline							
1953-64	49.8	11.0	6.6	68.5	54.8	46.6	35.7

\*Per 100,000 population.

NOTE: Data for all years include Alaska and Hawaii.

**TABLE 4**

*New active tuberculosis cases by race and sex: United States, 1953-1964*

Year	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
1953	84,304	62,214	41,159	21,055	22,090	13,056	9,034
1954	79,775	58,214	38,774	19,440	21,561	12,809	8,752
1955	77,368	56,080	37,167	18,913	21,288	12,510	8,778
1956	69,895	50,317	33,599	16,718	19,578	11,783	7,795
1957	67,149	48,348	32,700	15,648	18,801	11,470	7,331
1958	63,534	44,846	30,404	14,442	18,688	11,472	7,216
1959	57,535	40,406	27,363	13,043	17,129	10,489	6,640
1960	55,494	38,895	26,396	12,499	16,599	10,285	6,314
1961	53,726	37,096	25,139	11,957	16,630	10,265	6,365
1962	53,315	36,012	24,325	11,687	17,303	10,526	6,777
1963	54,042	36,048	24,160	11,888	17,994	11,083	6,911
1964	50,874	33,611	22,623	10,988	17,263	10,596	6,667
Percent distribution							
1953	100.0	73.8	48.8	25.0	26.2	15.5	10.7
1964	100.0	66.1	44.5	21.6	33.9	20.8	13.1

NOTE: Cases for which race or sex were not reported were distributed proportionately.



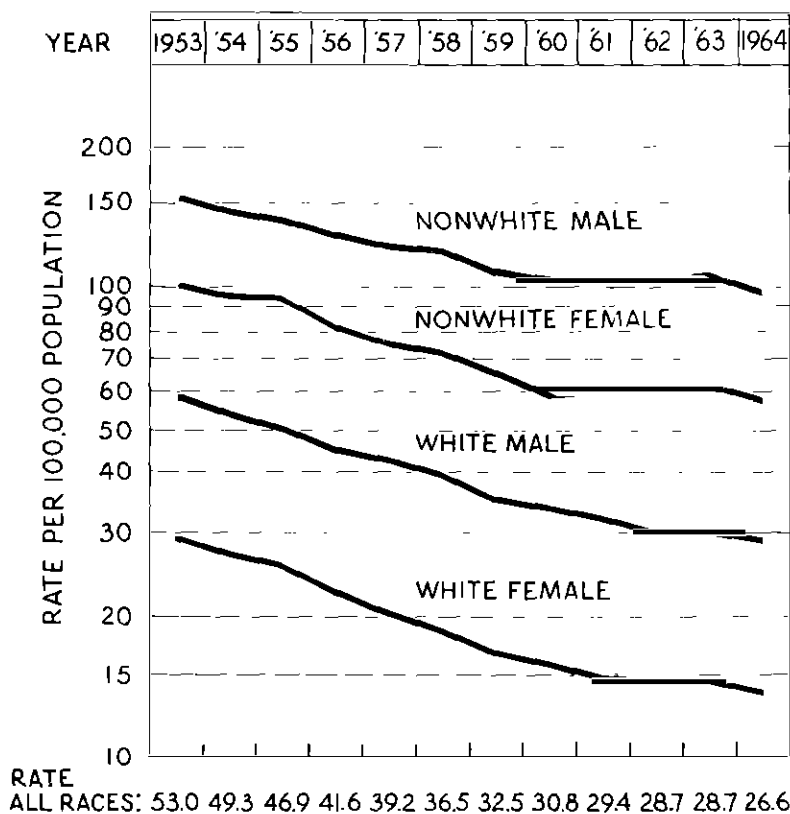
**TABLE 5**

*New active tuberculosis case rates\* by race and sex: United States, 1953-1964*

Year	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
1953	53.0	44.0	59.0	29.4	128.4	156.2	102.2
1954	49.3	40.4	54.4	26.6	122.0	149.1	96.3
1955	46.9	38.2	51.2	25.5	117.3	141.6	94.2
1956	41.6	33.7	45.5	22.1	105.1	129.1	81.5
1957	39.2	31.8	43.6	20.3	98.3	123.3	74.6
1958	36.5	29.0	39.9	18.5	95.3	120.2	71.6
1959	32.5	25.7	35.3	16.4	85.1	107.2	64.2
1960	30.8	24.4	33.6	15.5	80.6	102.6	59.6
1961	29.4	22.9	31.5	14.6	78.8	100.1	58.7
1962	28.7	21.9	30.1	14.0	80.1	100.4	61.0
1963	28.7	21.7	29.4	14.1	81.5	103.4	60.8
1964	26.6	19.9	27.3	12.8	76.5	96.8	57.3
Percent decline							
1953-64	49.8	54.8	53.7	56.5	40.4	38.0	43.9

\*Per 100,000 population.

**FIGURE 3.** *New active tuberculosis case rates by race and sex, United States, 1953-1964*



NOTE: *Logarithmic scale*

**TABLE 6**  
*New active tuberculosis cases by age, race, and sex: United States, 1964*

Age Groups	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
All Ages	50,874	33,611	22,623	10,988	17,263	10,596	6,667
0-4	2,827	1,525	799	726	1,302	682	620
5-14	3,269	1,674	829	845	1,595	791	804
15-24	4,538	2,546	1,302	1,244	1,992	942	1,050
25-44	14,282	8,358	5,155	3,203	5,924	3,520	2,404
45-64	16,434	11,791	9,153	2,638	4,643	3,435	1,208
65+	9,524	7,717	5,385	2,332	1,807	1,226	581

NOTE: Cases for which age, race or sex were not reported were distributed proportionately.

**TABLE 7**  
*New active tuberculosis case rates\*, by age, race, and sex: United States, 1964*

Age Groups	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
All Ages	26.6	19.9	27.3	12.8	76.5	96.8	57.3
0-4	13.7	8.8	9.0	8.5	40.3	42.1	38.5
5-14	8.5	5.0	4.9	5.2	29.2	29.0	29.5
15-24	15.6	10.0	10.3	9.7	55.9	54.0	57.8
25-44	30.6	20.2	25.3	15.2	111.8	142.9	84.8
45-64	42.7	33.9	54.2	14.7	127.0	195.4	63.7
65+	53.3	46.8	74.6	25.2	131.9	194.9	78.3

\*Rate per 100,000 population.

**FIGURE 4.** *New active tuberculosis case rates by age, race, and sex, United States, 1964*

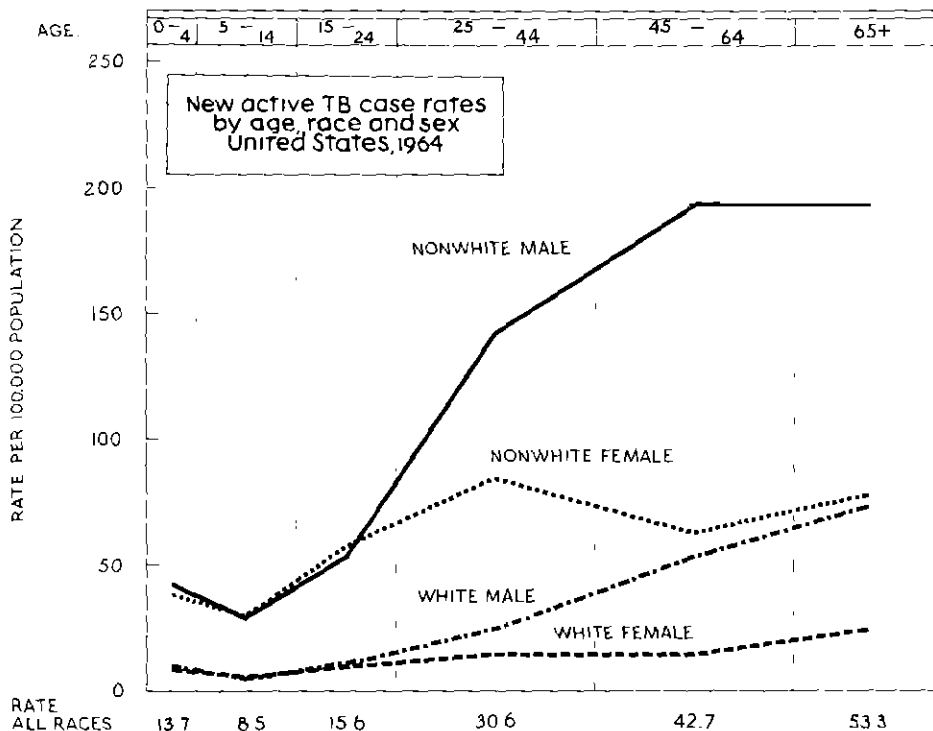


FIGURE 5. *New active tuberculosis cases and case rates by race and sex, United States, 1964*

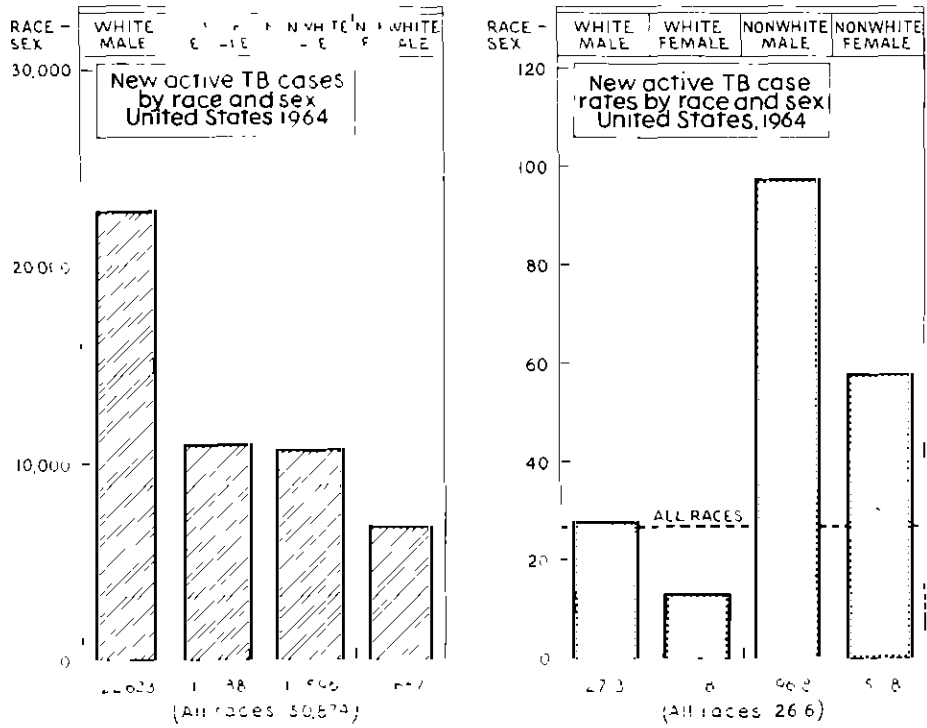
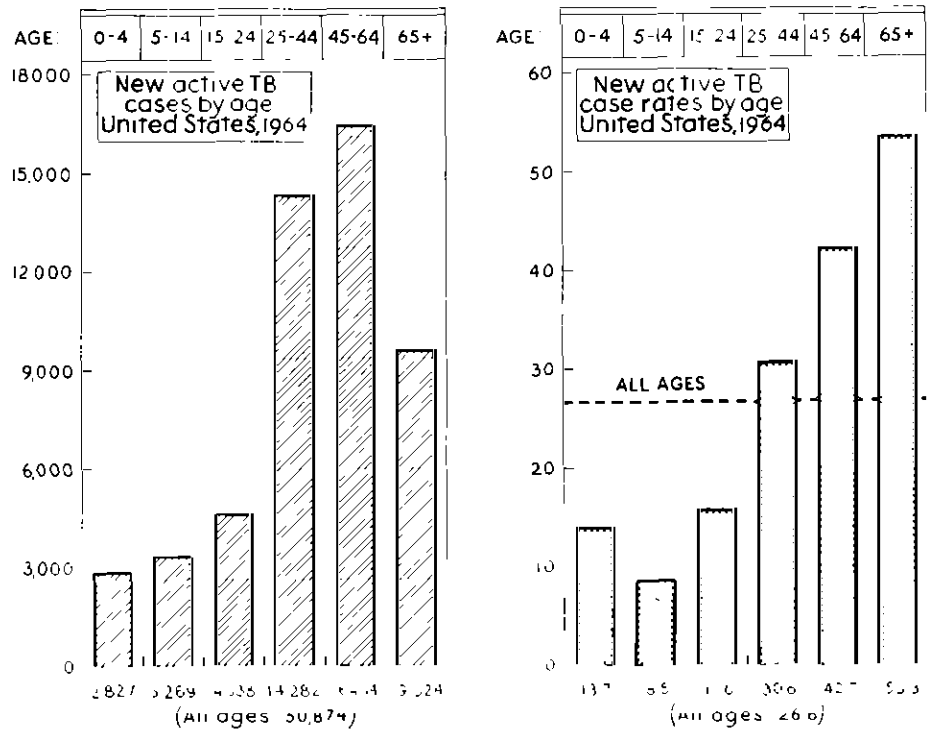


FIGURE 6. *New active tuberculosis cases and case rates by age group, United States, 1964*



# TUBERCULOSIS MORTALITY

In 1964, there were 8,303 deaths from tuberculosis reported in the United States compared to 9,311 in 1963. This one year decrease of 1,008 deaths represents the largest annual percent decline in tuberculosis mortality recorded during the last decade. Prior to 1955 somewhat greater annual declines were recorded. The tuberculosis death rate for 1964 was 4.3 per 100,000 population while the rate for 1963 was 4.9.

Of the total 8,303 tuberculosis deaths, 6,055 were males (white 4,528, nonwhite 1,527) and 2,248 were females (white 1,564, nonwhite 684).

The ratio of seven male deaths to three female deaths has changed very little during the last few years.

The nonpulmonary forms of the disease accounted for 381 (6 percent) of all tuberculosis deaths in the white population and 276 (12 percent) in the nonwhite population.

Among the 115 tuberculosis deaths under 15 years of age, 80 or 70 percent were due to nonpulmonary forms of the disease. There were 68 tuberculosis deaths (all forms) among children less than three years of age.

**TABLE 8**  
*Tuberculosis deaths by age, race, and sex: United States, 1964*

Age Groups	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
All Ages . . . . .	8,303	6,092	4,528	1,564	2,211	1,527	684
0-4 . . . . .	79	45	26	19	34	17	17
5-14 . . . . .	36	18	11	7	18	5	13
15-24 . . . . .	109	46	24	22	63	24	39
25-44 . . . . .	1,119	567	338	229	552	314	238
45-64 . . . . .	3,197	2,313	1,833	480	884	677	207
65+ . . . . .	3,759	3,102	2,295	807	657	487	170

NOTE: Totals include 1 death in a white male and 3 deaths in nonwhite males with age not stated.

**TABLE 9**  
*Tuberculosis death rates\* by age, race, and sex: United States, 1964*

Age Groups	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
All Ages . . . . .	4.3	3.6	5.5	1.8	9.8	13.9	5.9
0-4 . . . . .	0.4	0.3	0.3	0.2	1.1	1.0	1.1
5-14 . . . . .	0.1	0.1	0.1	(**)	0.3	0.2	0.5
15-24 . . . . .	0.4	0.2	0.2	0.2	1.8	1.4	2.1
25-44 . . . . .	2.4	1.4	1.7	1.1	10.4	12.7	8.4
45-64 . . . . .	8.3	6.6	10.9	2.7	24.2	38.5	10.9
65+ . . . . .	21.0	18.8	31.8	8.7	48.0	77.4	22.9

\*Rate per 100,000 population.  
\*\*Less than 0.05.

Tuberculosis death rates increase with age, and rates for nonwhites are higher than for whites. Under the age of thirty, males and females have relatively similar rates, but after thirty the male tuberculosis death rates begin to increase rapidly and the differences in the male and female age specific death rates become quite large.

Only six States had more tuberculosis deaths reported in 1964 than in 1963, their combined increase being 54 deaths. The remaining 44 States and the District of Columbia accounted for a decrease of 1,062 deaths, with a net change for the

country of 1,008 fewer deaths in 1964 than in 1963.

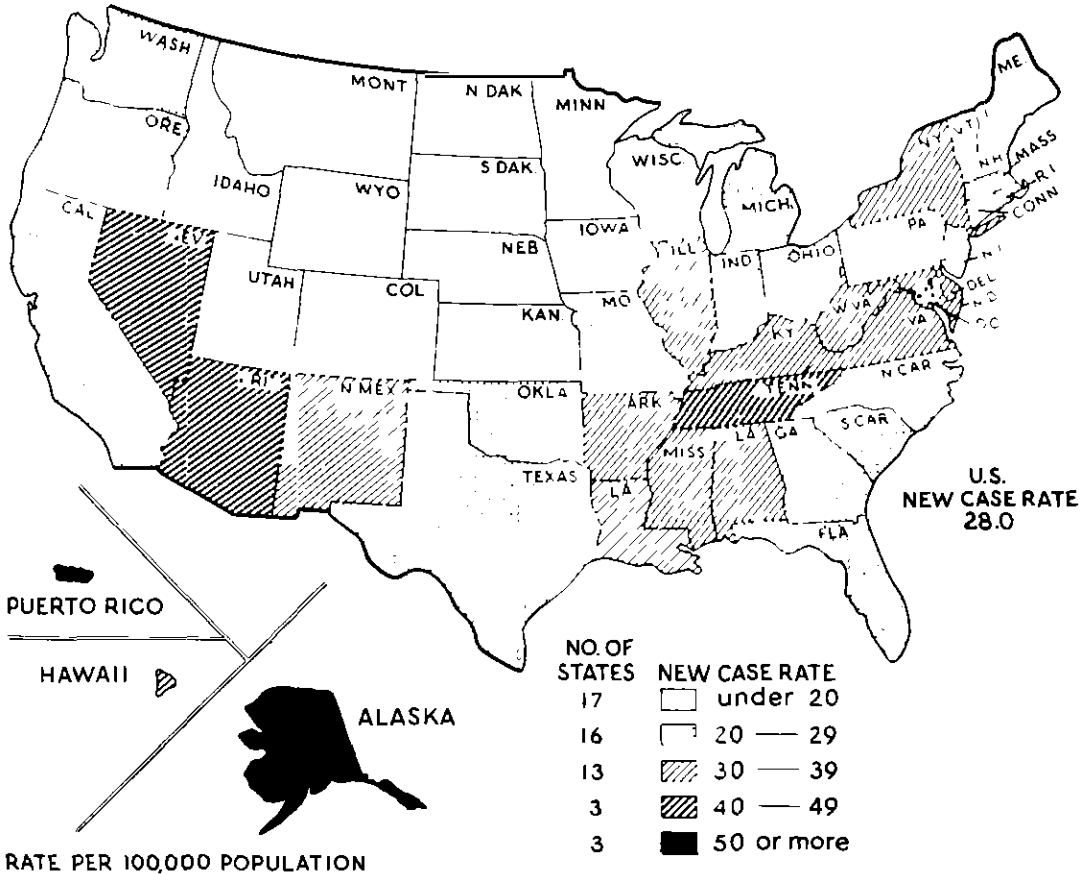
Tuberculosis death rates in 1964 ranged from a low of 1.2 per 100,000 population in North Dakota and Wyoming, to a high of 9.2 in Arizona. The District of Columbia which is classed as a city and not ranked with the States had a tuberculosis death rate of 12.2 per 100,000 population. Nineteen States had death rates that were higher than the average rate of 4.3 for the United States. In 1964, tuberculosis was listed in twentieth place as a leading cause of death and was responsible for 0.5 percent of the deaths from all causes.

# GEOGRAPHIC DISTRIBUTION

The accompanying charts showing the number of new active tuberculosis cases distributed by counties, demonstrate that no large part of the United States is entirely free from tuberculosis. The disease is widely and unevenly distributed. In a few instances sparsely populated areas have counties where the tuberculosis rates are substantially higher than the average for their neighbors. For example, the case rates are unduly high in some Indian reservations and among Alaska natives.

Metropolitan centers, with heavy concentrations of population, continue to produce more tuberculosis cases and deaths than less crowded and smaller cities or rural communities. Although there are exceptions, generally tuberculosis thrives where overcrowding and low socio-economic conditions prevail. This demographic aspect of the disease is well known, even though strict "cause and effect" relationships are sometimes difficult to explain.

FIGURE 7. Tuberculosis case rates by State, United States, average 1961-1964



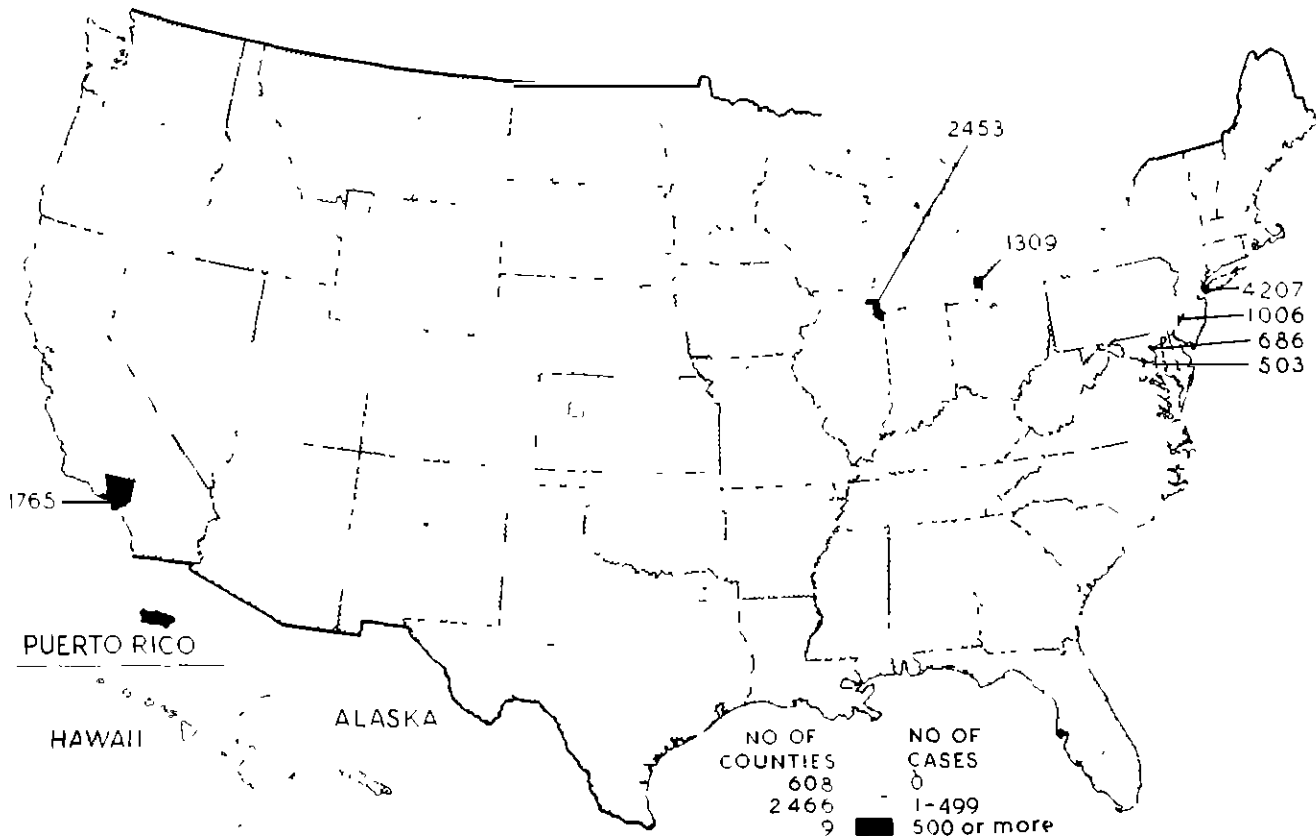
In 1964, 23,748 new cases, or 46.7 percent of the total reported in the United States, came from cities with 100,000 or more population. New case rates tended to increase with the size of the city. The average case rate for cities with 100,000 to 500,000 inhabitants was 32 per 100,000 population compared to a case rate of 48.1 for 27 cities each with over one-half million people. On the other hand, areas exclusive of large cities had a combined rate of 20.2 per 100,000 population.

In large cities, particularly those with populations of one-quarter million or more, a greater proportion of new active tuberculosis cases is found in the working age group from 15 to 64 years than prevails in the remainder of the country. These metropolitan centers contribute about 38 percent of all new cases reported in the nation, but one-third of the cases among the white population and over half among the nonwhite population come from these cities. In all instances, there

are many more males with tuberculosis than females.

New case data were reported upon for over 3,000 counties, ranging from three counties in the State of Delaware to 254 counties in Texas. Counties vary in size from large rural areas with very few residents to comparatively small, but highly congested urban centers. In 608 counties scattered throughout the country, with a combined total of five and one-half million people, no new active case of tuberculosis was reported during 1964. This does not suggest that there was no tuberculosis present in this large segment of the U.S. population. However, it does mean that no person with new active disease was found in these counties during one year. Most of these counties were located in the North Central, Plains, and Rocky Mountain States, and the majority of them had relatively small populations.

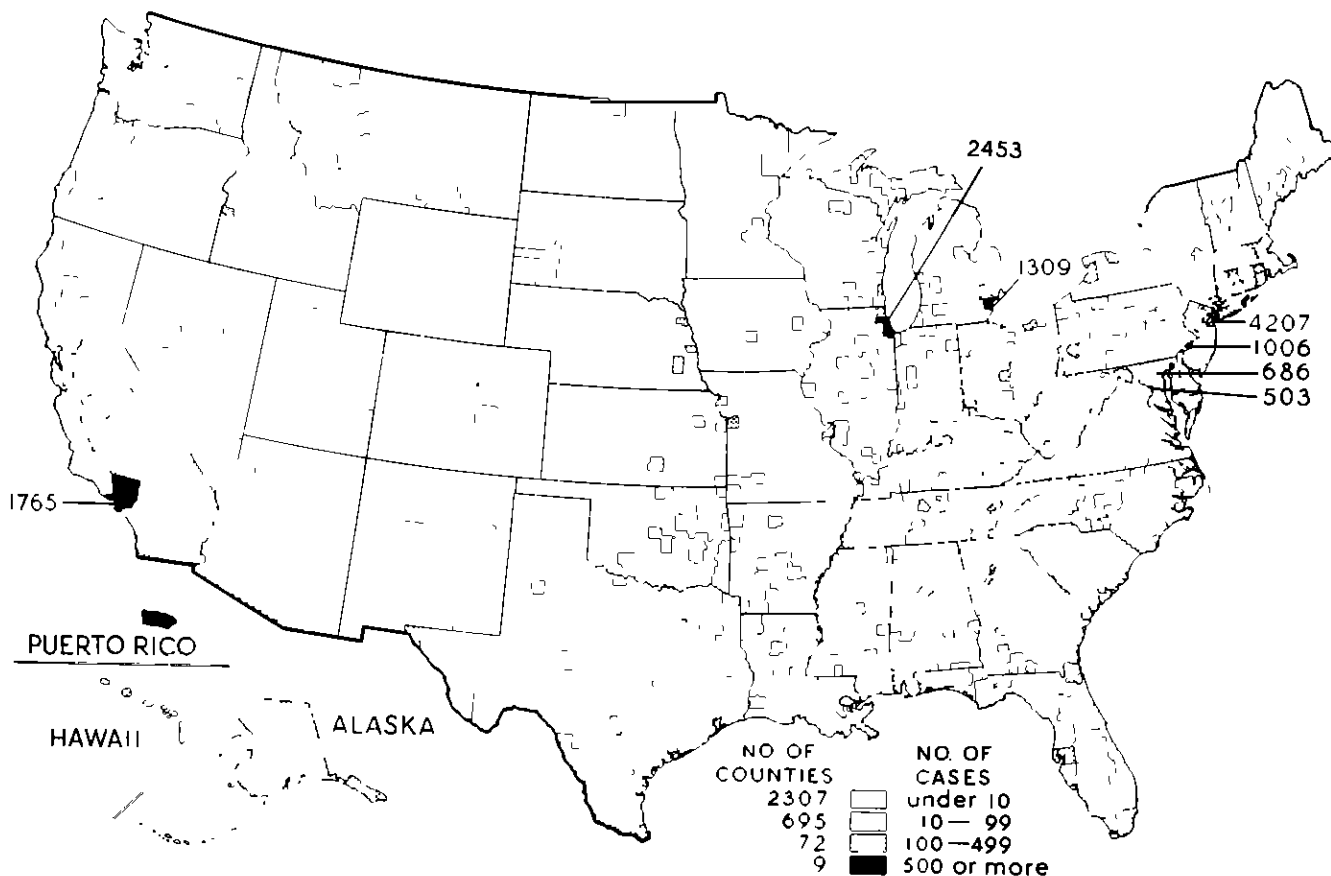
FIGURE 8. Tuberculosis cases reported: Counties and large urban areas, United States, 1964



There were 1,699 counties in which from 1 to 9 new cases were reported (total 6,245 cases), 695 counties had from 10 to 99 cases (total 18,051 cases), 72 had from 100 to 499 cases (total 14,611 cases), and in each of 9 metropolitan counties 500 or more new active tuberculosis cases (total 11,-

404 cases) were reported during the year. The respective case rates for these groups which include counties in different parts of the United States, were 15.8, 25.1, 29.1, and 47.0 per 100,000 population.

FIGURE 9. Tuberculosis cases in the United States by county, 1964



Geographic distribution of new active cases shows that nineteen States had over 1,000 cases each in 1964, or 40,086 cases, making up 79 percent of the new cases reported in the entire United States. Wyoming had 18 new active cases of tuberculosis and New York State had 5,922, with 4,207 of the latter in New York City. The case rate ranged from 5.3 for Wyoming to 135.2 for Alaska. Seventeen States and the District of Columbia recorded more new cases, whereas 33 States re-

corded fewer cases in 1964 than in 1963, a net reduction of 3,168 cases for the country.

The increase or decrease of cases in a number of States was very small and can be attributed to normal annual fluctuations. In a few States where the one year change was fairly large the differences appear to have been due to some modifications in applying the recommended rules for reporting cases rather than a rise or fall in incidence.



**TABLE 10**  
*Range of new active tuberculosis cases by counties, United States, 1964*

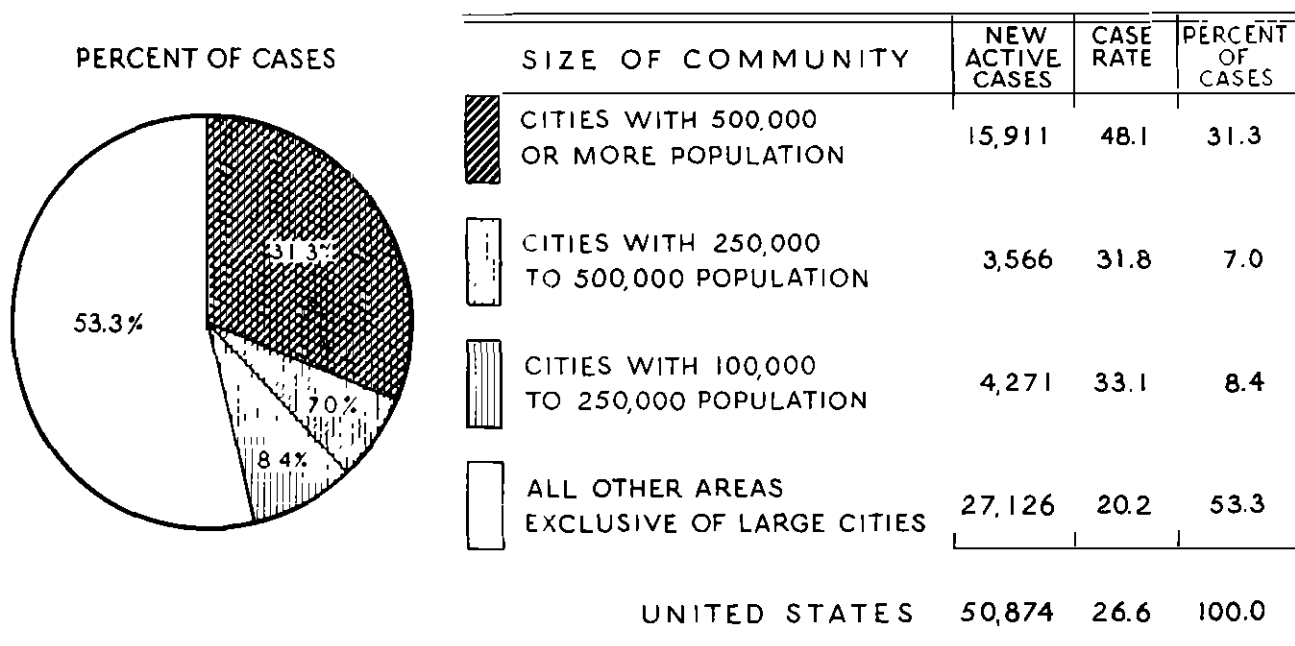
Range of new cases in county	Population 1964 (est.)		Counties		New cases reported		New case rate (a)
	Number	Percent	Number	Percent	Number	Percent	
0 .....	5,552,000	2.9	608	19.7	0	0.0	0.0
1-9 .....	39,451,000	20.6	1,699	55.1	6,245	12.4	15.8
10-99 .....	71,918,000	37.6	695	22.6	18,051	35.9	25.1
100-499 .....	50,196,000	26.2	72	2.3	14,611	29.0	29.1
500+ .....	24,254,000	12.7	9	0.3	11,404	22.7	47.0
All counties.....	191,371,000	100.0	3,083(b)	100.0	50,874(c)	100.0	26.6

(a) Per 100,000 population.

(b) Includes areas corresponding to counties, but having no organized county government.

(c) Includes 563 cases in miscellaneous administrative areas.

**FIGURE 10. Tuberculosis by size of community, 1964**



**TABLE 11**  
*Tuberculosis deaths by size of community, 1964*

Area	Tuberculosis deaths		
	Number	Rate per 100,000 population	Percent
Cities with 500,000 or more population .....	2,425	7.5	29.2
Cities with 250,000 to 500,000 population .....	558	5.8	6.7
Cities with 100,000 to 250,000 population .....	567	4.9	6.8
Other areas exclusive of large cities .....	4,753	3.4	57.3
United States .....	8,303	4.3	100.0

**TABLE 12**  
*New active tuberculosis cases among U.S. Indians and Alaska Natives*

Year	U.S. Indians(a)		Alaska natives	
	New cases	Case rate*	New cases	Case rate*
1962 .....	647	209.4	260	604.7
1963 .....	596	192.3	230	534.9
1964 .....	578	184.1	271	630.2

\*Per 100,000 population. (a) Excluding Alaska.  
 Compiled from "Illness Among Indians," reported incidence of notifiable diseases among Indians and Alaska natives,  
 Public Health Service, Bureau of Medical Services, Division of Indian Health, September 1965.

## THE SIZE OF THE TUBERCULOSIS PROBLEM

The "size" of the tuberculosis problem in the United States can be stated in a number of ways depending upon what aspect of the problem is being considered. No single figure can adequately express the extent of the problem nor give an idea as to what is involved in its control.

A generation or two ago tuberculosis deaths and death rates were accepted as an index of the amount of disease in a community. Reporting of mortality statistics was a long established practice and changes in death rates no doubt reflected in a crude way the overall trend of the disease. At that time, reporting of morbidity statistics was incomplete and these statistics were less reliable as indicators of tuberculosis prevalence. Since then there has been more precise definition of the type of case that should be reported and a marked improvement in the reporting of cases. Therefore, today morbidity data are the preferred means of evaluating trends.

Although there are still gaps in present day tuberculosis case register systems, for most public health jurisdictions in this country, morbidity reporting is reasonably complete and the data are adequate for administrative purposes.

"Cases" on tuberculosis registers are people who need care, treatment, or some type of public health supervision for tuberculosis. The number of individuals in various categories, whether persons with active or inactive disease, represent part of the problem that concerns the tuberculosis control officer.

New active tuberculosis cases reported during the year, expressed as a rate per 100,000 population, indicate the incidence of disease, and this index is used to measure changes from year to year, or to suggest the relative position of tuberculosis in different communities. The absolute number of new cases on the other hand indicates the amount of previously unknown tuberculosis found in a given jurisdiction and reported to the

local public health authorities. In addition, there will be a number of presumably arrested cases that reactivate during the year.

Generally accepted criteria as to what is reported as a "new case" are, therefore, very important for this purpose. The Public Health Service recommendations on the reporting of tuberculosis should be followed so as to establish one standard for the entire country. This does not preclude modifications that may be needed for record-keeping or other purposes in a local area. For example, in some communities there are compelling reasons why clinical cases of "tuberculosis" caused by atypical mycobacterial organisms must be included in health department records, however, cases of such etiology should be reported as separate items and tabulated apart from disease caused by virulent tubercle bacilli.

In 1964, there were 50,874 new active tuberculosis cases reported in the United States and 8,303 deaths were ascribed to tuberculosis as the underlying cause. It is estimated that several thousand relapsed cases returned for retreatment and care. There are, of course, many people in a community who are at risk of becoming infected with tubercle bacilli. Others who are now already infected may ultimately develop active disease. Various degrees of risk are involved. The proportion of persons infected increases with age. In the United States relatively few children or young adolescents are infected with the tubercle bacillus. At the present time the greatest number and the highest percent of positive reactors are in the older age groups.

From a practical standpoint not all individuals can receive the same degree of protection. To keep under constant surveillance all of the 30 million people in this country who are now infected with tubercle bacilli, as well as others who will become infected is not feasible. Therefore, some rational selection must be made, based on epidemiologic

considerations, as to who is most likely to develop tuberculosis within a specific period of time, and to establish safeguards to prevent this event.

At the end of the calendar year 1964, an estimated 320,000 cases were on tuberculosis registers in the United States, the same number as in 1963. For these two years there was no change in the total 105,000 active cases and 215,000 other cases on registers. Of the cases with active disease in 1964, around 42,000 were in hospitals on the last day of the year, or 2,000 less than in 1963; unhospitalized active cases under care of clinics and private physicians increased from 61,000 in 1963 to 63,000 in 1964.

On December 31, 1964, the Public Health Service through its special tuberculosis project grants,

was supplementing activities in areas with a total of 94,603 cases on registers, 23,007 with active disease, of which 11,394 were receiving care in hospitals and sanatoria. This program is being expanded to other areas, so as to include a larger proportion of the total tuberculosis cases in the United States.

It is anticipated that eventually supervision or whatever care is necessary will also be available to all inactive cases whose disease has been active less than five years, and to contacts of newly reported active cases. The number of persons directly affected by tuberculosis who will be under surveillance or supervision of health departments, is expected to include around 600,000 individuals.

**TABLE 13**  
*Cases on current tuberculosis registers\*, United States(a)*

Type	On December 31			
	1960	1962	1963	1964
Hospitalized cases . . . . .	58,000	46,000	44,000	42,000
Unhospitalized active cases . . . . .	62,000	64,000	61,000	63,000
Active disease cases . . . . .	120,000	110,000	105,000	105,000
All other cases on current registers(b) . . . . .	210,000	220,000	215,000	215,000
Total cases on register . . . . .	330,000	330,000	320,000	320,000

\* Estimated.

(a) Including Alaska and Hawaii, excluding Puerto Rico.

(b) Cases with activity undetermined and inactive cases under current supervision.

NOTE: Tuberculosis registers include records of the active cases currently under care, the cases for which disease activity has not been determined, and inactive cases under supervision. In many instances, cases are carried on registers for a considerable length of time before disease activity is established. For a number of reasons, other cases are also retained on the health department rolls. These include records of people who fail to respond to treatment, or who have received inadequate or interrupted treatment.

*The following tables will prove helpful as reference sources, giving details for States and cities. Included are selected data on tuberculosis cases and deaths according to age, race, and sex for the year 1964.*

**TABLE 14**

*New active tuberculosis cases and case rates: each State, 1963 and 1964*

State	New active cases		Case rate per 100,000 population		Rank according to rate		Population July 1, 1964
	1963	1964	1963	1964	1963	1964	
United States . . . . .	54,042	50,874	28.7	26.6	..	..	191,371,000
Continental U.S. . . . .	53,526	50,256	28.5	26.4	..	..	190,413,000
Alabama . . . . .	1,326	1,259	39.3	36.7	7	8	3,426,000
Alaska . . . . .	279	338	113.4	135.2	1	1	250,000
Arizona . . . . .	631	652	41.6	42.1	3	4	1,550,000
Arkansas . . . . .	672	663	35.3	34.2	11	11	1,939,000
California . . . . .	5,034	5,025	28.7	27.8	22	19	18,073,000
Colorado . . . . .	289	290	15.1	15.0	38	38	1,935,000
Connecticut . . . . .	301	383	11.1	13.8	45	39	2,783,000
Delaware . . . . .	143	154	29.8	31.0	19	16	496,000
District of Columbia . . . . .	474	503	59.4	63.1	..	..	797,000
Florida . . . . .	1,563	1,407	28.3	24.9	25	27	5,650,000
Georgia . . . . .	1,261	1,314	29.9	30.6	18	17	4,294,000
Hawaii . . . . .	237	280	34.6	39.5	13	5	708,000
Idaho . . . . .	71	73	10.3	10.6	46	43	688,000
Illinois . . . . .	3,739	3,370(a)	36.0	32.0	10	14	10,543,000
Indiana . . . . .	1,351	1,195	28.3	24.7	24	28	4,842,000
Iowa . . . . .	186	179	6.8	6.5	50	49	2,761,000
Kansas . . . . .	283	234	12.8	10.5	43	44	2,227,000
Kentucky . . . . .	1,190	1,188	38.1	37.6	9	7	3,160,000
Louisiana . . . . .	1,068	1,066	31.3	30.6	14	18	3,486,000
Maine . . . . .	156	119	15.8	12.0	37	41	989,000
Maryland . . . . .	1,361	1,187	40.6	34.5	5	10	3,441,000
Massachusetts . . . . .	1,097	977	20.7	18.4	33	34	5,308,000
Michigan . . . . .	2,433	2,196	30.3	26.9	16	21	8,153,000
Minnesota . . . . .	456	412	13.1	11.7	42	42	3,525,000
Mississippi . . . . .	687	751	30.1	32.7	17	13	2,298,000
Missouri . . . . .	1,245	1,116	28.4	24.9	23	26	4,473,000
Montana . . . . .	127	120	18.1	17.1	34	35	702,000
Nebraska . . . . .	146	140	9.9	9.5	47	47	1,470,000
Nevada . . . . .	135	250(b)	34.7	59.7	12	2	419,000
New Hampshire . . . . .	73	54	11.3	8.2	44	48	659,000
New Jersey . . . . .	1,634	1,738	24.9	26.1	28	23	6,664,000
New Mexico . . . . .	395	359	40.1	35.4	6	9	1,013,000
New York . . . . .	6,756	5,922	38.2	33.1	8	12	17,870,000
North Carolina . . . . .	1,386	1,282	29.0	26.4	21	22	4,854,000
North Dakota . . . . .	88	66	13.6	10.2	39	46	650,000
Ohio . . . . .	2,439	1,938(c)	24.4	19.1	29	32	10,150,000
Oklahoma . . . . .	584	513	23.9	20.8	30	30	2,461,000
Oregon . . . . .	395	416	21.3	22.1	32	29	1,880,000
Pennsylvania . . . . .	3,113	2,929	27.2	25.5	27	24	11,491,000
Rhode Island . . . . .	154	146	17.3	16.1	35	36	906,000
South Carolina . . . . .	740	683	29.6	27.1	20	20	2,522,000
South Dakota . . . . .	96	131	13.6	18.7	40	33	701,000
Tennessee . . . . .	1,541	1,459	41.1	38.4	4	6	3,799,000
Texas . . . . .	2,858	2,595	27.9	25.0	26	25	10,390,000
Utah . . . . .	80	100	8.2	10.3	49	45	973,000
Vermont . . . . .	54	60	13.3	15.2	41	37	396,000
Virginia . . . . .	1,806	1,900	42.2	43.5	2	3	4,367,000
Washington . . . . .	640	587	21.6	19.8	31	31	2,967,000
West Virginia . . . . .	563	577	31.1	31.6	15	15	1,824,000
Wisconsin . . . . .	676	560	16.6	13.6	36	40	4,109,000
Wyoming . . . . .	30	18	8.8	5.3	48	50	338,000
Puerto Rico(d) . . . . .	1,852	1,685	73.4	65.4	..	..	2,577,000

(a) Does not include 98 clinical cases of tuberculosis of atypical mycobacterial etiology.

(b) Tuberculin testing program conducted in rural counties.

(c) Does not include 269 probably active cases.

(d) Not included in totals.

The District of Columbia is classed as a city, and is not ranked with the states.

**TABLE 15**  
*Tuberculosis deaths and death rates: each State, 1963 and 1964*

State	Tuberculosis deaths		Death rate per 100,000 population		Rank according to rate		Population July 1, 1964
	1963	1964	1963	1964	1963	1964	
United States .....	9,311	8,303	4.9	4.3	..	..	191,371,000
Continental U.S. ....	9,271	8,259	4.9	4.3	..	..	190,413,000
Alabama .....	282	252	8.4	7.4	5	2	3,426,000
Alaska .....	21	15	8.5	6.0	3	9	250,000
Arizona .....	152	142	10.0	9.2	1	1	1,550,000
Arkansas .....	141	138	7.4	7.1	7	3	1,939,000
California .....	599	584	3.4	3.2	35	34	18,073,000
Colorado .....	63	69	3.3	3.6	36	30	1,935,000
Connecticut .....	86	69	3.2	2.5	38	40	2,783,000
Delaware .....	28	31	5.8	6.3	15	8	496,000
District of Columbia .....	98	97	12.3	12.2	..	..	797,000
Florida .....	249	224	4.5	4.0	26	25	5,650,000
Georgia .....	152	119	3.6	2.8	34	36	4,294,000
Hawaii .....	19	29	2.8	4.1	40	23	708,000
Idaho .....	18	11	2.6	1.6	43	48	688,000
Illinois .....	528	463	5.1	4.4	19	19	10,543,000
Indiana .....	223	203	4.7	4.2	25	21	4,842,000
Iowa .....	51	47	1.9	1.7	47	46	2,761,000
Kansas .....	41	41	1.8	1.8	48	44	2,227,000
Kentucky .....	269	208	8.6	6.6	2	7	3,160,000
Louisiana .....	222	209	6.5	6.0	11	11	3,486,000
Maine .....	36	25	3.7	2.5	33	39	989,000
Maryland .....	245	197	7.3	5.7	8	12	3,441,000
Massachusetts .....	251	190	4.7	3.6	23	29	5,308,000
Michigan .....	312	334	3.9	4.1	28	22	8,153,000
Minnesota .....	94	71	2.7	2.0	42	42	3,525,000
Mississippi .....	113	99	4.9	4.3	21	20	2,298,000
Missouri .....	266	208	6.1	4.7	13	17	4,473,000
Montana .....	27	28	3.9	4.0	30	24	702,000
Nebraska .....	15	27	1.0	1.8	50	45	1,470,000
Nevada .....	20	15	5.1	3.6	17	28	419,000
New Hampshire .....	14	13	2.2	2.0	45	43	659,000
New Jersey .....	363	305	5.5	4.6	16	18	6,664,000
New Mexico .....	70	68	7.1	6.7	9	6	1,013,000
New York .....	1,049	895	5.9	5.0	14	14	17,870,000
North Carolina .....	185	165	3.9	3.4	29	31	4,854,000
North Dakota .....	12	8	1.9	1.2	46	49	650,000
Ohio .....	441	391	4.4	3.9	27	27	10,150,000
Oklahoma .....	152	134	6.2	5.4	12	13	2,461,000
Oregon .....	59	53	3.2	2.8	37	35	1,880,000
Pennsylvania .....	744	689	6.5	6.0	10	10	11,491,000
Rhode Island .....	34	25	3.8	2.8	32	37	906,000
South Carolina .....	122	119	4.9	4.7	22	16	2,522,000
South Dakota .....	27	23	3.8	3.3	31	33	701,000
Tennessee .....	297	264	7.9	6.9	6	5	3,799,000
Texas .....	506	492	4.9	4.7	20	15	10,390,000
Utah .....	25	16	2.6	1.6	44	47	973,000
Vermont .....	19	13	4.7	3.3	24	32	396,000
Virginia .....	219	172	5.1	3.9	18	26	4,367,000
Washington .....	84	69	2.8	2.3	39	41	2,967,000
West Virginia .....	153	129	8.4	7.1	4	4	1,824,000
Wisconsin .....	111	111	2.7	2.7	41	38	4,109,000
Wyoming .....	4	4	1.2	1.2	49	50	338,000
Puerto Rico* .....	517	498	20.5	19.3	..	..	2,577,000

\*Not included in totals.

NOTE: The District of Columbia is classed as a city, and is not ranked with the states.

TABLE 16

New active tuberculosis cases by race and sex: each State, 1964

State	Total	White			Nonwhite			Race or sex not stated
		Total	Male	Female	Total	Male	Female	
United States.....	50,874(a)	31,760	21,405	10,355	16,290	9,980	6,310	1,086
Continental U.S.....	50,256(a)	31,675	21,349	10,326	15,757	9,684	6,073	1,086
Alabama.....	1,259	691	446	245	568	349	219	0
Alaska.....	338	61	38	23	277	129	148	0
Arizona.....	652	507	323	184	145	84	61	0
Arkansas.....	663	409	276	133	250	151	99	4
California.....	5,025	3,944	2,650	1,294	1,073	672	401	8
Colorado.....	290	212	139	73	42	20	22	36
Connecticut.....	383	283	178	105	92	52	40	8
Delaware.....	154	64	42	22	90	50	40	0
District of Columbia.....	503	99	72	27	383	230	153	21
Florida.....	1,407	829	587	242	577	377	200	1
Georgia.....	1,314	620	437	183	694	424	270	0
Hawaii.....	280	24	18	6	256	167	89	0
Idaho.....	73	65	48	17	8	6	2	0
Illinois.....	3,370	2,140	1,560	580	1,229	774	455	1
Indiana.....	1,195	929	622	307	266	164	102	0
Iowa.....	179	164	114	50	10	6	4	5
Kansas.....	234	188	134	54	46	30	16	0
Kentucky.....	1,188	1,002	623	379	169	108	61	17
Louisiana.....	1,066	569	412	157	489	324	165	8
Maine.....	119	118	74	44	1	1	0	0
Maryland.....	1,187	636	449	187	551	344	207	0
Massachusetts.....	977	846	587	259	131	90	41	0
Michigan.....	2,196	1,322	886	436	784	510	274	90
Minnesota.....	412	391	267	124	21	9	12	0
Mississippi.....	751	329	222	107	422	243	179	0
Missouri.....	1,116	809	539	270	307	192	115	0
Montana.....	120	69	53	16	51	25	26	0
Nebraska.....	140	125	93	32	15	11	4	0
Nevada.....	250	186	120	66	41	23	18	23
New Hampshire.....	54	54	38	16	0	0	0	0
New Jersey.....	1,738	..	..	..	..	..	..	..
New Mexico.....	359	214	128	86	145	76	69	0
New York.....	5,922	3,290	2,127	1,163	2,183	1,336	847	449
North Carolina.....	1,282	552	389	163	730	448	282	0
North Dakota.....	66	45	29	16	21	13	8	0
Ohio.....	1,938	1,300	872	428	586	351	235	52
Oklahoma.....	513	379	257	122	134	72	62	0
Oregon.....	416	360	276	84	54	31	23	2
Pennsylvania.....	2,929	2,083	1,527	556	846	522	324	0
Rhode Island.....	146	97	69	28	17	9	8	32
South Carolina.....	683	228	165	63	455	290	165	0
South Dakota.....	131	44	33	11	87	45	42	0
Tennessee.....	1,459	1,071	628	443	388	230	158	0
Texas.....	2,595	1,880	1,154	726	417	250	167	298
Utah.....	100	79	56	23	21	7	14	0
Vermont.....	60	60	41	19	0	0	0	0
Virginia.....	1,900	975	624	351	925	562	363	0
Washington.....	587	452	333	119	130	72	58	5
West Virginia.....	577	496	346	150	68	44	24	13
Wisconsin.....	560	456	292	164	91	56	35	13
Wyoming.....	18	14	12	2	4	1	3	0
Puerto Rico(b).....	1,685	1,685	964	721	..	..	..	..

(a) Only 49,136 cases for the United States and 48,518 for Continental United States were distributed by race and sex.

Data were not available for 1,738 cases reported by New Jersey.

(b) Not included in totals. Figures shown by sex are for all races.

TABLE 17

New active tuberculosis case rates by race and sex: each State, 1964

State	Total	White			Nonwhite		
		Total	Male	Female	Total	Male	Female
United States .....	26.6	19.9	27.3	12.8	76.5	96.8	57.3
Continental U.S. ....	26.4	19.9	27.3	12.8	75.9	96.5	56.5
Alabama .....	36.7	28.6	37.6	19.9	57.3	74.0	42.2
Alaska .....	135.2	31.5	34.1	28.1	490.3	425.7	564.9
Arizona .....	42.1	35.7	45.7	25.8	90.5	104.0	76.8
Arkansas .....	34.2	26.8	36.9	17.0	63.3	79.6	48.2
California .....	27.8	23.9	32.6	15.5	67.8	83.8	51.3
Colorado .....	15.0	12.8	17.1	8.6	68.1	66.1	70.2
Connecticut .....	13.8	11.0	14.2	7.9	69.4	81.8	57.8
Delaware .....	31.0	15.3	20.4	10.4	124.0	138.5	109.6
District of Columbia .....	63.1	30.4	48.5	15.1	85.6	108.3	65.1
Florida .....	24.9	17.5	25.3	10.0	60.5	80.6	41.2
Georgia .....	30.6	20.2	29.0	11.7	56.6	73.1	41.8
Hawaii .....	39.5	10.7	14.5	6.0	53.6	67.2	38.9
Idaho .....	10.6	9.5	13.9	5.0	76.9	(115.4)	(38.5)
Illinois .....	32.0	23.1	34.2	12.3	101.7	133.2	72.6
Indiana .....	24.7	20.6	27.9	13.4	86.6	110.5	64.3
Iowa .....	6.5	6.2	8.9	3.6	34.5	42.9	26.7
Kansas .....	10.5	8.9	12.8	5.1	42.0	54.9	29.1
Kentucky .....	37.6	34.6	43.5	25.9	75.9	99.0	53.6
Louisiana .....	30.6	24.5	36.1	13.3	43.7	60.6	28.3
Maine .....	12.0	12.0	15.3	8.8	(16.4)	(32.3)	n.c.
Maryland .....	34.5	22.3	32.1	12.9	94.5	119.9	69.8
Massachusetts .....	18.4	16.3	23.5	9.6	85.8	118.7	53.4
Michigan .....	26.9	19.0	25.7	12.3	100.4	134.3	67.8
Minnesota .....	11.7	11.3	15.5	7.1	45.8	39.5	51.9
Mississippi .....	32.7	24.1	32.9	15.5	44.5	53.3	36.3
Missouri .....	24.9	20.3	27.7	13.3	71.3	93.4	51.1
Montana .....	17.1	10.2	15.4	4.8	184.8	182.5	187.1
Nebraska .....	9.5	8.7	13.1	4.4	36.7	54.2	19.4
Nevada .....	59.7	54.5	68.9	39.6	137.7	157.6	118.3
New Hampshire .....	8.2	8.3	12.0	4.8	n.c.	n.c.	n.c.
New Jersey .....	26.1	..	..	..	..	..	..
New Mexico .....	35.4	23.3	27.7	18.9	161.1	172.3	150.3
New York .....	33.1	22.1	29.5	15.2	129.5	170.1	94.0
North Carolina .....	26.4	15.2	21.6	8.8	60.2	76.2	45.2
North Dakota .....	10.2	7.1	9.0	5.2	137.3	(158.5)	(112.7)
Ohio .....	19.1	14.5	19.8	9.4	68.0	84.0	52.9
Oklahoma .....	20.8	17.0	23.5	10.8	55.8	62.4	49.7
Oregon .....	22.1	19.8	30.6	9.1	138.1	154.2	121.1
Pennsylvania .....	25.5	19.8	29.8	10.3	89.9	115.7	66.2
Rhode Island .....	16.1	14.1	20.5	7.9	81.1	93.8	68.7
South Carolina .....	27.1	13.3	19.4	7.3	53.9	71.5	37.6
South Dakota .....	18.7	6.4	9.6	3.2	274.4	286.6	262.5
Tennessee .....	38.4	33.8	40.6	27.3	61.6	76.7	47.9
Texas .....	25.0	23.3	29.0	17.8	36.6	45.1	28.5
Utah .....	10.3	8.1	11.6	4.7	111.1	70.0	(157.3)
Vermont .....	15.2	15.2	20.6	9.2	n.c.	n.c.	n.c.
Virginia .....	43.5	28.0	36.0	20.0	103.6	127.3	80.4
Washington .....	19.8	15.9	23.5	8.4	113.2	117.8	108.0
West Virginia .....	31.6	29.7	41.8	17.8	84.0	110.6	58.3
Wisconsin .....	13.6	11.7	15.2	8.3	81.4	102.5	61.0
Wyoming .....	5.3	4.2	7.0	1.2	(55.6)	(24.4)	(96.8)
Puerto Rico* .....	65.4	..	..	..	..	..	..

\*Not included in totals.

NOTES: (1) Rates enclosed in parentheses are for race-sex groups which have a population of less than 10,000 persons.  
 (2) Cases with age or sex not specified distributed proportionately. (3) n.c. = No cases. (4) (..) = Not available.



**TABLE 18**  
*New active tuberculosis cases by age: each State, 1964*

State	Total	Under 5	5-14	15-24	25-44	45-64	65+	Age not stated
United States . . . . .	50,874	2,778	3,202	4,447	14,019	16,106	9,341	981
Continental U.S. . . . .	50,256	2,732	3,117	4,364	13,833	15,951	9,278	981
Alabama . . . . .	1,259	39	35	125	336	418	295	11
Alaska . . . . .	338	33	78	63	104	49	11	0
Arizona . . . . .	652	60	58	52	152	215	115	0
Arkansas . . . . .	663	46	86	45	124	193	150	19
California . . . . .	5,025	301	232	467	1,444	1,664	917	0
Colorado . . . . .	290	17	17	30	97	69	44	16
Connecticut . . . . .	383	21	24	43	118	113	63	1
Delaware . . . . .	154	14	10	16	40	53	21	0
District of Columbia . . . . .	503	49	46	48	157	165	35	3
Florida . . . . .	1,407	58	48	96	463	496	245	1
Georgia . . . . .	1,314	96	67	95	415	399	226	16
Hawaii . . . . .	280	13	7	20	82	106	52	0
Idaho . . . . .	73	9	5	4	21	23	10	1
Illinois . . . . .	3,370	90	101	301	1,156	1,125	556	41
Indiana . . . . .	1,195	53	90	96	270	368	271	47
Iowa . . . . .	179	3	6	9	42	74	44	1
Kansas . . . . .	234	9	1	14	70	77	60	3
Kentucky . . . . .	1,188	33	49	103	318	359	316	10
Louisiana . . . . .	1,066	52	35	68	315	367	197	32
Maine . . . . .	119	6	7	9	31	34	26	6
Maryland . . . . .	1,187	54	51	114	364	402	196	6
Massachusetts . . . . .	977	42	36	77	281	351	190	0
Michigan . . . . .	2,196	155	151	188	637	633	410	22
Minnesota . . . . .	412	17	17	20	93	126	137	2
Mississippi . . . . .	751	38	67	78	213	217	137	1
Missouri . . . . .	1,116	95	53	62	234	376	292	4
Montana . . . . .	120	3	16	11	13	47	26	4
Nebraska . . . . .	140	8	2	12	42	47	29	0
Nevada . . . . .	250	2	111	29	23	36	22	27
New Hampshire . . . . .	54	2	1	2	13	20	15	1
New Jersey . . . . .	1,738	111	82	176	526	601	241	1
New Mexico . . . . .	359	53	59	34	64	75	70	4
New York . . . . .	5,922	307	340	609	1,902	1,735	909	120
North Carolina . . . . .	1,282	70	81	114	374	423	220	0
North Dakota . . . . .	66	12	6	5	10	21	12	0
Ohio . . . . .	1,938	94	149	151	492	596	388	68
Oklahoma . . . . .	513	3	1	40	117	186	117	49
Oregon . . . . .	416	14	23	28	123	157	71	0
Pennsylvania . . . . .	2,929	107	134	231	698	1,030	641	88
Rhode Island . . . . .	146	11	17	18	35	44	13	8
South Carolina . . . . .	683	60	78	71	182	211	77	4
South Dakota . . . . .	131	15	22	17	23	30	24	0
Tennessee . . . . .	1,459	79	151	107	332	454	335	1
Texas . . . . .	2,595	195	153	253	606	720	345	323
Utah . . . . .	100	15	7	11	18	30	18	1
Vermont . . . . .	60	1	3	3	8	26	16	3
Virginia . . . . .	1,900	151	317	173	403	508	319	29
Washington . . . . .	587	19	15	48	172	203	126	4
West Virginia . . . . .	577	28	27	30	143	226	123	0
Wisconsin . . . . .	560	14	29	29	120	199	166	3
Wyoming . . . . .	18	1	1	2	3	9	2	0
Puerto Rico* . . . . .	1,685	145	227	225	408	440	211	29

\*Not included in totals.

**TABLE 19**  
*New active tuberculosis case rates by age: each State, 1964*

State	Total	Under 5	5-14	15-24	25-44	45-64	65+
United States . . . . .	26.6	13.7	8.5	15.6	30.6	42.7	53.3
Continental U.S. . . . .	26.4	13.5	8.3	15.4	30.4	42.5	53.1
Alabama . . . . .	36.7	10.1	4.7	23.0	41.9	65.5	106.8
Alaska . . . . .	135.2	89.2	139.3	140.0	144.4	144.1	157.1
Arizona . . . . .	42.1	31.4	16.6	19.3	39.5	79.0	100.9
Arkansas . . . . .	34.2	22.6	22.9	14.8	30.3	50.5	74.8
California . . . . .	27.8	15.9	6.5	16.2	31.0	47.2	58.7
Colorado . . . . .	15.0	8.2	4.1	10.3	20.7	20.7	27.5
Connecticut . . . . .	13.8	7.4	4.5	10.4	17.3	19.3	24.0
Delaware . . . . .	31.0	24.6	9.7	21.1	32.5	57.6	53.8
District of Columbia . . . . .	63.1	52.7	34.3	44.9	72.3	92.2	47.3
Florida . . . . .	24.9	10.0	4.4	11.0	33.9	44.7	36.3
Georgia . . . . .	30.6	19.7	7.3	13.5	39.3	51.9	71.9
Hawaii . . . . .	39.5	15.3	4.6	15.6	43.9	93.8	152.9
Idaho . . . . .	10.6	11.3	3.3	3.7	13.4	18.3	15.9
Illinois . . . . .	32.0	7.9	4.9	20.6	46.2	50.4	54.6
Indiana . . . . .	24.7	10.1	9.2	13.9	24.2	40.5	60.9
Iowa . . . . .	6.5	1.0	1.1	2.3	6.8	13.3	13.1
Kansas . . . . .	10.5	3.8	0.2	4.4	13.5	17.9	23.9
Kentucky . . . . .	37.6	9.6	7.5	20.6	43.1	59.8	103.9
Louisiana . . . . .	30.6	12.4	4.5	12.9	39.7	60.2	77.9
Maine . . . . .	12.0	5.5	3.6	6.1	14.3	18.4	25.7
Maryland . . . . .	34.5	14.1	7.2	20.8	41.7	61.3	78.5
Massachusetts . . . . .	18.4	7.6	3.6	10.2	21.9	30.6	32.0
Michigan . . . . .	26.9	17.0	8.7	16.0	33.0	40.2	60.4
Minnesota . . . . .	11.7	4.1	2.3	4.0	11.9	18.2	36.7
Mississippi . . . . .	32.7	13.5	12.7	20.5	42.0	51.9	69.0
Missouri . . . . .	24.9	20.7	6.3	10.1	23.0	39.9	56.5
Montana . . . . .	17.1	3.6	10.5	10.5	8.0	37.3	40.9
Nebraska . . . . .	9.5	4.8	0.7	5.7	12.4	15.9	16.9
Nevada . . . . .	59.7	4.3	154.3	47.8	23.0	51.9	109.1
New Hampshire . . . . .	8.2	2.9	0.8	2.0	8.4	15.8	20.8
New Jersey . . . . .	26.1	16.6	6.5	17.7	31.3	41.4	38.9
New Mexico . . . . .	35.4	38.3	25.0	20.2	26.9	47.2	116.4
New York . . . . .	33.1	17.6	10.7	24.4	43.4	43.5	51.2
North Carolina . . . . .	26.4	13.1	7.8	13.8	30.2	48.3	63.6
North Dakota . . . . .	10.2	15.4	4.3	5.1	6.9	17.1	20.0
Ohio . . . . .	19.1	8.8	7.3	10.7	20.5	30.7	42.9
Oklahoma . . . . .	20.8	1.2	0.2	11.1	21.8	41.3	49.4
Oregon . . . . .	22.1	7.7	6.1	10.0	28.3	39.5	35.9
Pennsylvania . . . . .	25.5	9.6	6.3	14.7	25.8	41.8	56.4
Rhode Island . . . . .	16.1	12.2	9.9	13.7	17.1	24.0	14.6
South Carolina . . . . .	27.1	20.1	13.6	15.6	29.3	49.8	45.8
South Dakota . . . . .	18.7	17.9	14.2	16.0	14.5	22.4	31.6
Tennessee . . . . .	38.4	19.8	19.5	17.7	35.2	61.2	101.2
Texas . . . . .	25.0	18.6	7.9	17.6	26.9	42.6	47.6
Utah . . . . .	10.3	11.6	2.9	6.8	7.6	19.4	26.5
Vermont . . . . .	15.2	2.2	3.6	5.0	9.6	34.6	36.4
Virginia . . . . .	43.5	32.3	35.7	23.9	35.8	64.3	101.9
Washington . . . . .	19.8	6.0	2.5	10.5	24.5	33.8	43.3
West Virginia . . . . .	31.6	15.7	7.3	10.9	34.6	59.8	67.6
Wisconsin . . . . .	13.6	3.0	3.4	4.9	12.9	24.0	39.1
Wyoming . . . . .	5.3	2.5	1.4	3.8	3.6	13.6	7.1
Puerto Rico* . . . . .	65.4	38.5	32.6	49.9	75.6	132.9	154.0

\*Not included in totals.

NOTE: Cases with age not specified were distributed proportionately.

**TABLE 20**  
*Source of report for new active cases: each State, 1964*

State	Total	Death certificates	Transfers from other states	All other sources(a)
United States . . . . .	50,874	1,847	485	48,542
Continental U.S. . . . .	50,256	1,839	481	47,936
Alabama . . . . .	1,259	27	6	1,226
Alaska . . . . .	338	0	1	337
Arizona . . . . .	652	5	3	644
Arkansas . . . . .	663	21	9	633
California . . . . .	5,025	271	126	4,628
Colorado . . . . .	290	8	7	275
Connecticut . . . . .	383	2	0	381
Delaware . . . . .	154	6	0	148
District of Columbia . . . . .	503	1	1	501
Florida . . . . .	1,407	26	13	1,368
Georgia . . . . .	1,314	49	10	1,255
Hawaii . . . . .	280	8	3	269
Idaho . . . . .	73	4	4	65
Illinois . . . . .	3,370	159	30	3,181
Indiana . . . . .	1,195	68	0	1,127
Iowa . . . . .	179	0	16	163
Kansas . . . . .	234	10	13	211
Kentucky . . . . .	1,188	30	21	1,137
Louisiana . . . . .	1,066	65	..	1,001
Maine . . . . .	119	4	2	113
Maryland . . . . .	1,187	59	0	1,128
Massachusetts . . . . .	977	15	2	960
Michigan . . . . .	2,196	11	6	2,179
Minnesota . . . . .	412	13	8	391
Mississippi . . . . .	751	28	12	711
Missouri . . . . .	1,116	62	7	1,047
Montana . . . . .	120	6	0	114
Nebraska . . . . .	140	16	6	118
Nevada . . . . .	250	7	2	241
New Hampshire . . . . .	54	1	0	53
New Jersey . . . . .	1,738	49	0	1,689
New Mexico . . . . .	359	33	1	325
New York . . . . .	5,922	246	..	5,676
North Carolina . . . . .	1,282	37	..	1,245
North Dakota . . . . .	66	2	2	62
Ohio . . . . .	1,938	94	..	1,844
Oklahoma . . . . .	513	20	17	476
Oregon . . . . .	416	8	2	406
Pennsylvania . . . . .	2,929	102	5	2,822
Rhode Island . . . . .	146	4	1	141
South Carolina . . . . .	683	20	14	649
South Dakota . . . . .	131	11	0	120
Tennessee . . . . .	1,459	50	0	1,409
Texas . . . . .	2,595	57	32	2,506
Utah . . . . .	100	8	0	92
Vermont . . . . .	60	2	0	58
Virginia . . . . .	1,900	62	75	1,763
Washington . . . . .	587	21	0	566
West Virginia . . . . .	577	30	22	525
Wisconsin . . . . .	560	9	5	546
Wyoming . . . . .	18	0	1	17
Puerto Rico(b) . . . . .	1,685	142	0	1,543

(a) Includes transfers from other states for Louisiana, New York, North Carolina and Ohio.

(b) Not included in totals.

NOTE: (..) = Not available.

TABLE 21

Form and extent of disease of new active tuberculosis cases: United States, 1964

Form and extent of disease	Number	Percent		
Total new active cases.....	50,874	100.0	....	....
Pulmonary .....	45,826	90.1	100.0	....
With extent specified.....	38,611	....	84.3	100.0
Minimal .....	8,269	....	....	21.4
Moderately advanced .....	16,919	....	....	43.8
Far advanced .....	13,423	....	....	34.8
Extent not specified .....	2,360	....	5.1	....
Primary .....	4,855	....	10.6	....
Nonpulmonary .....	3,900	7.7	....	100.0
Unexplained pleurisy .....	673	....	....	17.3
Other .....	3 227	....	....	82.7
Form not specified .....	1 148	2.2	....	....

TABLE 22

Percent distribution of new active pulmonary tuberculosis cases: United States, 1953-1964

Year	Total	Stage of disease*		
		Minimal	Moderately advanced	Far advanced
1953.....	100.0	22.6	40.7	36.7
1954.....	100.0	22.4	40.6	37.0
1955.....	100.0	22.4	42.1	35.5
1956.....	100.0	22.2	42.4	35.4
1957.....	100.0	21.8	42.6	35.6
1958.....	100.0	21.7	42.3	36.0
1959.....	100.0	21.4	43.1	35.5
1960.....	100.0	21.1	43.1	35.8
1961.....	100.0	20.5	43.5	36.0
1962.....	100.0	20.7	43.9	35.4
1963.....	100.0	21.2	43.3	35.5
1964.....	100.0	21.4	43.8	34.8

\*Based on areas for which extent of pulmonary tuberculosis was specified.

TABLE 23

New active tuberculosis cases by form and extent of disease: each State, 1964

State	Total active cases	Pulmonary						Nonpulmonary		Form not specified
		Total pulmonary	Primary	Minimal	Moderately advanced	Far advanced	Extent not specified	Unexplained pleurisy	Other	
United States . . . . .	50,874	45,826	4,855	8,269	16,919	13,423	2,360	673	3,227	1,148
Continental U.S. . . . .	50,256	45,261	4,756	8,039	16,757	13,361	2,348	666	3,181	1,148
Alabama . . . . .	1,259	1,238	48	174	535	302	179	11	10	0
Alaska . . . . .	338	312	86	143	55	22	6	0	26	0
Arizona . . . . .	652	600	76	106	237	170	11	0	51	1
Arkansas . . . . .	663	603	132	60	158	222	31	13	34	13
California . . . . .	5,025	4,512	433	1,060	1,882	1,127	10	80	428	5
Colorado . . . . .	290	267	24	52	107	61	23	0	23	0
Connecticut . . . . .	383	335	39	64	112	84	36	6	42	0
Delaware . . . . .	154	134	23	15	38	58	0	0	20	0
District of Columbia . . . . .	503	456	92	50	132	151	31	0	47	0
Florida . . . . .	1,407	1,309	81	193	538	470	27	14	84	0
Georgia . . . . .	1,314	1,170	140	183	364	429	54	30	85	29
Hawaii . . . . .	280	253	13	87	107	40	6	7	20	0
Idaho . . . . .	73	59	13	12	13	21	0	0	14	0
Illinois . . . . .	3,370	3,088	65	534	1,407	947	135	0	282	0
Indiana . . . . .	1,195	1,114	136	163	403	330	82	14	48	19
Iowa . . . . .	179	172	6	12	48	103	3	0	7	0
Kansas . . . . .	234	214	6	41	80	58	29	2	18	0
Kentucky . . . . .	1,188	1,133	42	154	475	452	10	19	36	0
Louisiana . . . . .	1,066	994	35	95	394	340	130	0	72	0
Maine . . . . .	119	103	12	29	32	25	5	4	12	0
Maryland . . . . .	1,187	1,074	48	215	394	369	48	29	84	0
Massachusetts . . . . .	977	896	59	200	346	267	24	10	71	0
Michigan . . . . .	2,196	1,832	271	328	703	530	0	56	179	129
Minnesota . . . . .	412	345	25	65	158	72	25	9	58	0
Mississippi . . . . .	751	707	41	153	221	244	48	(a)	44	0
Missouri . . . . .	1,116	1,059	135	130	327	343	124	0	57	0
Montana . . . . .	120	88	10	18	42	18	0	0	8	24
Nebraska . . . . .	140	131	5	21	56	38	11	1	8	0
Nevada . . . . .	250	244	157	15	20	48	4	1	2	3
New Hampshire . . . . .	54	50	1	16	20	13	0	0	4	0
New Jersey . . . . .	1,738	1,604	147	258	574	619	6	38	96	0
New Mexico . . . . .	359	317	87	55	71	84	20	4	38	0
New York . . . . .	5,922	5,184	484	912	1,885	1,282	621	169	232	337
North Carolina . . . . .	1,282	1,084	141	139	368	436	0	78	120	0
North Dakota . . . . .	66	56	19	4	24	6	3	0	10	0
Ohio . . . . .	1,938	1,750	229	316	621	465	119	52	133	3
Oklahoma . . . . .	513	502	0	117	164	181	40	0	11	0
Oregon . . . . .	416	364	25	110	145	61	23	0	52	0
Pennsylvania . . . . .	2,929	2,620	191	464	1,119	846	0	0	72	237
Rhode Island . . . . .	146	132	27	26	42	33	4	0	14	0
South Carolina . . . . .	683	602	125	76	130	230	41	0	81	0
South Dakota . . . . .	131	114	6	32	34	26	16	1	16	0
Tennessee . . . . .	1,459	1,369	214	330	500	307	18	0	87	3
Texas . . . . .	2,595	2,111	290	308	698	621	194	11	128	345
Utah . . . . .	100	79	16	17	28	15	3	0	21	0
Vermont . . . . .	60	54	2	17	24	8	3	0	6	0
Virginia . . . . .	1,900	1,828	501	385	473	415	54	0	72	0
Washington . . . . .	587	488	27	125	245	83	8	0	99	0
West Virginia . . . . .	577	553	32	92	161	185	83	2	22	0
Wisconsin . . . . .	560	510	37	97	202	163	11	9	41	0
Wyoming . . . . .	18	13	1	1	7	3	1	3	2	0
Puerto Rico(b) . . . . .	1,685	1,599	313	206	491	438	151	0	14	72

(a) Included in pulmonary, minimal.

(b) Not included in totals.

TABLE 24

Percent distribution by extent of disease, new active pulmonary tuberculosis cases(a): each State, 1964

State	Total	Minimal	Moderately advanced	Far advanced
United States .....	100.0	21.4	43.8	34.8
Continental U.S. ....	100.0	21.1	43.9	35.0
Alabama .....	100.0	17.2	52.9	29.9
Alaska .....	100.0	65.0	25.0	10.0
Arizona .....	100.0	20.7	46.2	33.1
Arkansas .....	100.0	13.6	35.9	50.5
California .....	100.0	26.0	46.3	27.7
Colorado .....	100.0	23.6	48.7	27.7
Connecticut .....	100.0	24.6	43.1	32.3
Delaware .....	100.0	13.5	34.2	52.3
District of Columbia .....	100.0	15.0	39.6	45.4
Florida .....	100.0	16.1	44.8	39.1
Georgia .....	100.0	18.7	37.3	44.0
Hawaii .....	100.0	37.2	45.7	17.1
Idaho .....	100.0	26.1	28.3	45.6
Illinois .....	100.0	18.5	48.7	32.8
Indiana .....	100.0	18.2	45.0	36.8
Iowa .....	100.0	7.4	29.4	63.2
Kansas .....	100.0	22.9	44.7	32.4
Kentucky .....	100.0	14.3	43.9	41.8
Louisiana .....	100.0	11.5	47.5	41.0
Maine .....	100.0	33.7	37.2	29.1
Maryland .....	100.0	22.0	40.3	37.7
Massachusetts .....	100.0	24.6	42.6	32.8
Michigan .....	100.0	21.0	45.0	34.0
Minnesota .....	100.0	22.0	53.6	24.4
Mississippi .....	100.0	24.7	35.8	39.5
Missouri .....	100.0	16.2	40.9	42.9
Montana .....	100.0	23.1	53.8	23.1
Nebraska .....	100.0	18.3	48.7	33.0
Nevada .....	100.0	18.1	24.1	57.8
New Hampshire .....	100.0	32.7	40.8	26.5
New Jersey .....	100.0	17.8	39.5	42.7
New Mexico .....	100.0	26.2	33.8	40.0
New York .....	100.0	22.4	46.2	31.4
North Carolina .....	100.0	14.8	39.0	46.2
North Dakota .....	100.0	11.8	70.6	17.6
Ohio .....	100.0	22.5	44.3	33.2
Oklahoma .....	100.0	25.3	35.5	39.2
Oregon .....	100.0	34.8	45.9	19.3
Pennsylvania .....	100.0	19.1	46.1	34.8
Rhode Island .....	100.0	25.7	41.6	32.7
South Carolina .....	100.0	17.4	29.8	52.8
South Dakota .....	100.0	34.8	36.9	28.3
Tennessee .....	100.0	29.0	44.0	27.0
Texas .....	100.0	18.9	42.9	38.2
Utah .....	100.0	28.3	46.7	25.0
Vermont .....	100.0	34.7	49.0	16.3
Virginia .....	100.0	30.2	37.2	32.6
Washington .....	100.0	27.6	54.1	18.3
West Virginia .....	100.0	21.0	36.8	42.2
Wisconsin .....	100.0	21.0	43.7	35.3
Wyoming .....	100.0	9.1	63.6	27.3
Puerto Rico(b) .....	100.0	18.1	43.3	38.6

(a) Cases for which extent specified.

(b) Not included in totals.

TABLE 25

New active tuberculosis cases, cities of 250,000 or more population, 1964

Cities	New active cases		
	Number	Rate per 100,000 population	Rate rank order
New York, N. Y.	4,207	53.7	9
Chicago, Ill.	2,202	62.2	7
Detroit, Mich.	1,104	68.9	3
Los Angeles, Calif.	1,028	37.6	24
Philadelphia, Pa.	1,006	48.6	13
Baltimore, Md.	686	74.3	2
Washington, D. C.	503	63.1	6
San Francisco, Calif.	494	65.4	4
St. Louis, Mo.	372	54.4	8
Boston, Mass.	348	50.1	11
Cleveland, Ohio	339	39.3	22
San Antonio, Tex.	312	46.7	15
Newark, N. J.	296	75.7	1
New Orleans, La.	282	42.7	18
Pittsburgh, Pa.	268	48.0	14
Cincinnati, Ohio	252	50.5	10
Buffalo, N. Y.	251	49.8	12
Dallas, Tex.	209	26.0	32
Milwaukee, Wisc.	207	27.2	31
Kansas City, Mo.	200	44.3	17
Seattle, Wash.	192	34.0	26
Phoenix, Ariz.	185	35.2	25
Jersey City, N. J.	172	64.7	5
Portland, Ore.	156	41.0	21
Honolulu, Hawaii	136	41.6	20
Rochester, N. Y.	128	42.4	19
Norfolk, Va.	122	38.7	23
Dayton, Ohio	121	45.8	16
Denver, Colo.	120	22.9	35
Oakland, Calif.	116	30.1	28
Columbus, Ohio	116	22.5	36
San Diego, Calif.	111	17.7	39
Ft. Worth, Tex.	99	25.4	33
San Jose, Calif.	87	27.9	30
Long Beach, Calif.	87	23.8	34
Tucson, Ariz.	80	31.1	27
Toledo, Ohio	72	20.2	38
Minneapolis, Minn.	68	14.7	41
Albuquerque, N. Mex.	64	28.9	29
Akron, Ohio	63	21.3	37
Omaha, Nebr.	57	16.6	40
St. Paul, Minn.	44	14.0	42
Wichita, Kans.	28	10.5	43
Total—43 Cities	16,990	46.7	..
San Juan, P. R.	324	65.0	..
Counties*			
Harris Co. (Houston), Tex.	413	30.1	9
Dade Co. (Miami), Fla.	338	30.7	8
Marion Co. (Indianapolis), Ind.	281	38.2	3
Jefferson Co. (Birmingham), Ala.	256	38.4	2
Fulton Co. (Atlanta), Ga.	244	41.8	1
Jefferson Co. (Louisville), Ky.	215	32.3	5
Shelby Co. (Memphis), Tenn.	179	25.4	10
Hillsborough Co. (Tampa), Fla.	152	35.4	4
Davidson Co. (Nashville), Tenn.	142	32.0	6
El Paso Co. (El Paso), Tex.	108	31.8	7
Oklahoma Co. (Oklahoma City), Okla.	83	16.3	12
Tulsa Co. (Tulsa), Okla.	76	19.0	11
Total—12 Counties	2,487	31.3	..

\*Counties which include a principal city of 250,000 population. Data for principal city were not available separately.  
NOTE: Rates based on population estimates for 1964, obtained from state and local authorities.

TABLE 26

New active tuberculosis cases, cities with 100,000 to 250,000 population, 1964

Cities	New active cases		
	Number	Rate per 100,000 population	Rate in order
Richmond, Va.	213	97.2	2
Sacramento, Calif.	167	75.0	3
Chattanooga, Tenn.	134	103.0	1
Fresno, Calif.	107	70.6	4
Jacksonville, Fla.	107	53.0	10
Paterson, N. J.	95	65.1	6
Knoxville, Tenn.	81	44.6	16
Syracuse, N. Y.	80	37.5	22
Trenton, N. J.	75	69.4	5
Portsmouth, Va.	75	62.9	7
Newport News, Va.	75	59.7	9
Hartford, Conn.	74	45.5	14
Spokane, Wash.	74	40.1	20
Shreveport, La.	68	38.7	21
Elizabeth, N. J.	65	61.3	8
Grand Rapids, Mich.	62	30.1	31
Flint, Mich.	61	29.7	32
Winston-Salem, N. C.	57	47.1	12
Albany, N. Y.	57	45.2	15
Erie, Pa.	56	41.4	19
Scranton, Pa.	54	51.1	11
Providence, R. I.	50	25.4	40
St. Petersburg, Fla.	49	22.8	45
Yankers, N. Y.	48	23.7	42
Charlotte, N. C.	48	20.8	46
Alexandria, Va.	47	46.4	13
New Haven, Conn.	47	31.0	28
Baton Rouge, La.	47	28.8	34
Hampton, Va.	46	43.4	17
Little Rock, Ark.	46	32.7	25
Youngstown, Ohio	45	27.4	38
Worcester, Mass.	45	23.1	43
Greensboro, N. C.	44	31.7	26
Roanoke, Va.	43	42.5	18
Bridgeport, Conn.	41	26.1	39
Kansas City, Kans.	39	30.8	29
Tacoma, Wash.	38	25.1	41
Cambridge, Mass.	37	34.8	23
Salt Lake City, Utah	37	18.5	52
Camden, N. J.	35	30.7	30
Pasadena, Calif.	35	28.6	36
Peoria, Ill.	33	32.8	24
Waterbury, Conn.	33	28.7	35
New Bedford, Mass.	32	31.3	27
Raleigh, N. C.	31	29.3	33
Des Moines, Iowa	28	13.2	59



**TABLE 26—Continued**  
*New active tuberculosis cases, cities with 100,000 to 250,000 population, 1964*

Cities	New active cases		
	Number	Rate per 100,000 population	Rate rank order
Utica, N. Y.	27	27.7	37
Rockford, Ill.	27	20.4	48
Riverside, Calif.	26	20.5	47
Glendale, Calif.	25	19.0	51
Santa Ana, Calif.	24	18.2	54
Springfield, Mass.	24	13.2	58
Fall River, Mass.	23	23.1	44
Dearborn, Mich.	23	20.0	49
Canton, Ohio	22	19.4	50
Lansing, Mich.	22	18.3	53
Anaheim, Calif.	20	14.5	56
Berkeley, Calif.	19	17.1	55
Niagara Falls, N. Y.	15	14.2	57
Allentown, Pa.	14	13.0	60
Virginia Beach, Va.	13	11.1	61
Topeka, Kans.	13	10.6	63
Lincoln, Nebr.	13	9.1	64
Duluth, Minn.	12	11.1	62
Torrance, Calif.	9	7.5	65
<b>Total—65 Cities</b>	<b>3,232</b>	<b>34.4</b>	<b>..</b>
Ponce, P. R.	121	78.5	..
Counties*			
Lake Co. (Gary & Hammond), Ind.	155	29.8	8
Mobile Co. (Mobile), Ala.	145	41.4	5
Nueces Co. (Corpus Christi), Tex.	103	46.4	2
Chatham Co. (Savannah), Ga.	88	48.0	1
Hinds Co. (Jackson), Miss.	87	43.0	3
Montgomery Co. (Montgomery), Ala.	72	39.5	6
Bibb Co. (Macon), Ga.	61	42.4	4
Travis Co. (Austin), Tex.	60	24.7	9
St. Joseph Co. (South Bend), Ind.	55	22.7	10
Muscogee Co. (Columbus), Ga.	54	37.7	7
Allen Co. (Ft. Wayne), Ind.	46	18.4	12
Wichita Co. (Wichita Falls), Tex.	27	21.2	11
Done Co. (Madison), Wisc.	27	10.3	15
Vanderburg Co. (Evansville), Ind.	25	15.2	13
Lubbock Co. (Lubbock), Tex.	24	13.7	14
Potter Co. (Amarillo), Tex.	10	8.2	16
<b>Total—16 Counties</b>	<b>1,039</b>	<b>29.4</b>	<b>..</b>

\*Counties which include a principal city with 100,000 to 250,000 population. Data for principal city were not available separately.

NOTE Rates based on population estimates for 1964 obtained from state and local authorities.

TABLE 27

New active tuberculosis cases, by age: selected American cities(a), 1964

Cities	Age group							All ages	
	Under 5	5-14	15-24	25-44	45-64	65+	Age not stated	New cases	Rate per 100 000 population
New York, N. Y.	218	221	471	1,457	1,187	565	88	4,207	53.7
Chicago, Illinois	58	62	216	838	712	284	32	2,202	62.2
Detroit, Mich.	92	80	106	326	329	171	0	1,104	68.9
Los Angeles, Calif.	81	33	85	304	357	168	0	1,028	37.6
Philadelphia, Pa.	32	31	86	289	375	183	10	1,006	48.6
Baltimore, Md.	32	23	66	230	244	91	0	686	74.3
Washington, D. C.	49	46	48	157	165	35	3	503	63.1
San Francisco, Calif.	35	33	41	142	155	88	0	494	65.4
Houston (Harris Co.), Tex.(b)	29	19	35	141	144	39	6	413	30.1
St. Louis, Mo.	30	9	22	99	126	86	0	372	54.4
Boston, Mass.	13	12	20	96	133	74	0	348	50.1
Cleveland, Ohio	25	28	26	98	99	55	8	339	39.3
Miami (Dade Co.), Fla.(b)	22	11	19	117	106	63	0	338	30.7
San Antonio, Tex.	39	15	46	68	89	47	8	312	46.7
Newark, N. J.	20	13	31	122	89	21	0	296	75.7
New Orleans, La.	8	0	18	93	91	51	21	282	42.7
Indianapolis (Marion Co.), Ind.(b)	27	46	23	63	65	51	6	281	38.2
Pittsburgh, Pa.	20	28	27	65	90	38	0	268	48.0
Birmingham (Jefferson Co.), Ala.(b)	14	18	19	76	89	40	0	256	38.4
Cincinnati, Ohio	13	43	22	59	79	27	9	252	50.5
Buffalo, N. Y.	16	20	25	50	77	63	0	251	49.8
Atlanta (Fulton Co.), Ga.(b)	14	11	16	88	78	29	8	244	41.8
Louisville (Jefferson Co.), Ky.(b)	5	6	14	73	69	48	0	215	32.3
Dallas, Tex.	28	12	21	59	53	30	6	209	26.0
Milwaukee, Wisc.	4	5	10	57	76	55	0	207	27.2
Kansas City, Mo.	16	22	11	46	82	23	0	200	44.3
Seattle, Wash.	5	1	16	54	72	43	1	192	34.0
Phoenix, Ariz.	15	8	13	52	63	28	6	185	35.2
Memphis (Shelby Co.), Tenn.(b)	14	9	20	41	55	40	0	179	25.4
Jersey City, N. J.	19	8	19	61	48	17	0	172	64.7
Portland, Ore.	3	7	3	52	68	23	0	156	41.0
Tampa (Hillsborough Co.), Fla.(b)	3	3	15	41	63	26	1	152	35.4
Nashville (Davidson Co.), Tenn.(b)	13	17	9	37	37	29	0	142	32.0
Honolulu, Hawaii	7	6	13	48	42	20	0	136	41.6
Rochester, N. Y.	5	5	10	48	42	17	1	128	42.4
Norfolk, Va.	2	3	7	36	41	17	16	122	38.7
Dayton, Ohio	6	9	8	34	33	24	7	121	45.8
Denver, Colo.	6	4	10	40	35	21	4	120	22.9
Oakland, Calif.	0	5	10	38	43	20	0	116	30.1
Columbus, Ohio	4	11	11	29	36	20	5	116	22.5
San Diego, Calif.	6	7	11	35	32	20	0	111	17.7
El Paso (El Paso Co.), Tex.(b)	19	17	15	19	26	12	0	108	31.8
Ft. Worth, Tex.	7	7	8	29	35	13	0	99	25.4
San Jose, Calif.	9	5	10	25	23	15	0	87	27.9
Long Beach, Calif.	3	2	5	22	31	24	0	87	23.8
Tucson, Ariz.	5	6	4	16	32	17	0	80	31.1
Toledo, Ohio	5	1	5	19	26	14	2	72	20.2
Minneapolis, Minn.	0	0	7	17	23	21	0	68	14.7
Albuquerque, N. Mex.	8	8	3	11	21	12	1	64	28.9
Akron, Ohio	6	3	5	25	15	5	4	63	21.3
Omaha, Nebr.	2	0	1	26	20	8	0	57	16.6
St. Paul, Minn.	1	1	0	10	11	21	0	44	14.0
Wichita, Kans.	1	0	0	15	7	5	0	28	10.5
Total 53 Cities	1,114	1,000	1,762	6,093	6,139	2,957	253	19,318	44.5
Remainder of U. S.	1,664	2,202	2,685	7,926	9,967	6,384	728	31,556	21.3
United States	2,778	3,202	4,447	14,019	16,106	9,341	981	50,874	26.6

(a) Cities of 250,000 or more population for which details by age were reported.

(b) Since details for principal city were not available, data shown are for county.

NOTE: Rates based on population estimates for 1964, obtained from state and local authorities.

TABLE 28

New active tuberculosis cases, by race and sex: selected American cities(a), 1964

Cities	White			Nonwhite			Race or sex not stated	Total
	Male	Female	Total	Male	Female	Total		
New York, N. Y.	1,345	712	2,057	1,088	692	1,780	370	4,207
Chicago, Ill.	887	252	1,139	663	399	1,062	1	2,202
Detroit, Mich.	356	141	497	393	214	607	0	1,104
Los Angeles, Calif.	476	227	703	204	120	324	1	1,028
Philadelphia, Pa.	338	120	458	358	187	545	3	1,006
Baltimore, Md.	223	69	292	252	142	394	0	686
Washington, D. C.	72	27	99	230	153	383	21	503
San Francisco, Calif.	197	74	271	132	91	223	0	494
Houston (Harris Co.), Tex.(b)	171	108	279	72	62	134	0	413
St. Louis, Mo.	124	56	180	122	70	192	0	372
Boston, Mass.	196	54	250	68	30	98	0	348
Cleveland, Ohio	110	43	153	107	72	179	7	339
Miami (Dade Co.), Fla.(b)	149	54	203	95	40	135	0	338
San Antonio, Tex.	184	110	294	13	5	18	0	312
New Orleans, La.	109	27	136	103	40	143	3	282
Indianapolis (Marion Co.), Ind.(b)	112	47	159	77	45	122	0	281
Pittsburgh, Pa.	109	36	145	66	57	123	0	268
Birmingham (Jefferson Co.), Ala.(b)	60	26	86	104	66	170	0	256
Cincinnati, Ohio	88	37	125	72	51	123	4	252
Buffalo, N. Y.	112	47	159	59	33	92	0	251
Atlanta (Fulton Co.), Ga.(b)	60	24	84	106	54	160	0	244
Louisville (Jefferson Co.), Ky.(b)	96	47	143	51	21	72	0	215
Dallas, Tex.	79	41	120	48	41	89	0	209
Milwaukee, Wis.	106	40	146	34	27	61	0	207
Kansas City, Mo.	89	30	119	57	24	81	0	200
Seattle, Wash.	109	31	140	31	21	52	0	192
Phoenix, Ariz.	91	43	134	26	17	43	8	185
Memphis (Shelby Co.), Tenn.(b)	49	20	69	54	56	110	0	179
Portland, Ore.	106	25	131	17	7	24	1	156
Tampa (Hillsborough Co.), Fla.(b)	75	37	112	31	9	40	0	152
Nashville (Davidson Co.), Tenn.(b)	49	36	85	38	19	57	0	142
Honolulu, Hawaii	9	5	14	82	40	122	0	136
Rochester, N. Y.	59	23	82	27	18	45	1	128
Norfolk, Va.	29	12	41	46	19	65	16	122
Dayton, Ohio	51	19	70	27	17	44	7	121
Denver, Colo.	67	14	81	9	9	18	21	120
Oakland, Calif.	40	19	59	29	28	57	0	116
Columbus, Ohio	52	15	67	23	23	46	3	116
San Diego, Calif.	59	36	95	10	6	16	0	111
El Paso (El Paso Co.), Tex.(b)	53	54	107	1	0	1	0	108
Ft. Worth, Tex.	40	24	64	15	20	35	0	99
San Jose, Calif.	42	39	81	4	2	6	0	87
Long Beach, Calif.	56	23	79	2	6	8	0	87
Tucson, Ariz.	43	31	74	4	2	6	0	80
Toledo, Ohio	34	14	48	13	9	22	2	72
Minneapolis, Minn.	44	21	65	3	0	3	0	68
Albuquerque, N. Mex.	41	19	60	3	1	4	0	64
Akron, Ohio	18	9	27	20	12	32	4	63
Omaha, Nebr.	26	9	35	17	5	22	0	57
St. Paul, Minn.	25	16	41	2	1	3	0	44
Wichita, Kans.	13	7	20	6	2	8	0	28
Total 51 Cities	7,128	3,050	10,178	5,114	3,085	8,199	473	18,850
Remainder of U.S.	14,277	7,305	21,582	4,866	3,225	8,091	613	32,024(c)
United States	21,405	10,355	31,760	9,980	6,310	16,290	1,086	50,874(c)

(a) Cities of 250,000 or more population for which details by race and sex were reported.

(b) Since details for principal city were not available, data shown are for county.

(c) Data by race and sex were not available on 1,738 cases reported by New Jersey.

TABLE 29

Tuberculosis deaths by race in large cities, 1964 (according to place of residence)

Cities	White			Nonwhite			All races	
	Respira- tory	Other	Total	Respira- tory	Other	Total	Number	Rate(a)
Akron, Ohio	4	0	4	7	0	7	11	3.7
Albany, N. Y.	8	2	10	0	0	0	10	7.9
Albuquerque, N. M.	18	1	19	0	0	0	19	8.6
Allentown, Pa.	3	0	3	0	0	0	3	2.8
Amarillo, Texas	2	2	4	0	0	0	4	2.5
Anaheim, Calif.	1	0	1	0	0	0	1	0.7
Arlington Co., Va.	3	0	3	1	0	1	4	1.4
Atlanta, Ga.	7	1	8	8	3	11	19	3.7
Austin, Texas	6	0	6	1	1	2	8	3.8
Baltimore, Md.	49	1	50	51	6	57	107	11.6
Baton Rouge, La.	1	1	2	2	0	2	4	2.4
Beaumont, Texas	2	0	2	1	1	2	4	3.1
Berkeley, Calif.	2	0	2	2	0	2	4	3.6
Birmingham, Ala.	14	0	14	23	4	27	41	11.8
Boston, Mass.	61	2	63	6	1	7	70	10.1
Bridgeport, Conn.	5	1	6	1	1	2	8	5.1
Buffalo, N. Y.	17	2	19	7	3	10	29	5.8
Cambridge, Mass.	6	0	6	0	0	0	6	5.6
Camden, N. J.	5	0	5	3	0	3	8	7.0
Canton, Ohio	2	0	2	1	0	1	3	2.7
Charlotte, N. C.	5	0	5	1	0	1	6	2.6
Chattanooga, Tenn.	8	0	8	12	0	12	20	15.4
Chicago, Ill.	148	6	154	97	10	107	261	7.4
Cincinnati, Ohio	30	2	32	16	2	18	50	10.0
Cleveland, Ohio	34	0	34	25	1	26	60	7.0
Columbus, Ga.	5	0	5	4	1	5	10	7.8
Columbus, Ohio	14	0	14	10	1	11	25	4.8
Corpus Christi, Texas	15	0	15	0	0	0	15	7.7
Dallas, Texas	17	1	18	10	1	11	29	3.6
Dayton, Ohio	10	1	11	5	1	6	17	6.4
Dearborn, Mich.	3	1	4	0	0	0	4	3.5
Denver, Colo.	23	2	25	2	0	2	27	5.1
Des Moines, Iowa	7	2	9	1	0	1	10	4.7
Detroit, Mich.	91	4	95	50	9	59	154	9.6
Duluth, Minn.	4	0	4	0	0	0	4	3.7
Elizabeth, N. J.	5	0	5	4	0	4	9	8.5
El Paso, Texas	23	1	24	0	0	0	24	7.6
Erie, Pa.	8	2	10	2	1	3	13	9.6
Evansville, Ind.	3	0	3	3	0	3	6	4.2
Flint, Mich.	5	0	5	2	0	2	7	3.4
Fort Wayne, Ind.	8	0	8	1	0	1	9	5.2
Fort Worth, Texas	15	1	16	2	2	4	20	5.1
Fresno, Calif.	4	1	5	2	1	3	8	5.3
Gary, Ind.	3	0	3	8	0	8	11	5.9
Glendale, Calif.	4	0	4	0	0	0	4	3.0
Grand Rapids, Mich.	6	1	7	1	0	1	8	3.9
Greensboro, N. C.	4	1	5	6	0	6	11	7.9
Hammond, Ind.	2	0	2	0	0	0	2	1.8
Hartford, Conn.	4	2	6	0	0	0	6	3.7
Honolulu, Hawaii	3	0	3	10	1	11	14	4.3
Houston, Texas	36	3	39	19	3	22	61	5.6
Indianapolis, Ind.	13	3	16	14	3	17	33	6.4
Jackson, Miss.	2	0	2	4	0	4	6	3.7
Jacksonville, Fla.	9	0	9	7	1	8	17	8.4
Jersey City, N. J.	20	2	22	11	4	15	37	13.9
Kansas City, Kans.	4	0	4	2	0	2	6	4.7
Kansas City, Mo.	26	2	28	12	3	15	43	9.5
Knoxville, Tenn.	13	0	13	1	1	2	15	8.3
Lansing, Mich.	2	0	2	0	0	0	2	1.7
Lincoln, Nebr.	4	0	4	0	0	0	4	2.8
Little Rock, Ark.	2	1	3	1	0	1	4	2.8
Long Beach, Calif.	12	0	12	0	0	0	12	3.3
Los Angeles, Calif.	70	6	76	26	3	29	105	3.8
Louisville, Ky.	21	1	22	14	0	14	36	9.1
Lubbock, Texas	3	0	3	0	0	0	3	2.0
Madison, Wisc.	1	1	2	0	0	0	2	1.3
Memphis, Tenn.	20	0	20	13	3	16	36	6.4
Miami, Fla.	13	0	13	9	0	9	22	6.6
Milwaukee, Wisc.	37	0	37	2	0	2	39	5.1

**TABLE 29—Continued**  
*Tuberculosis deaths by race in large cities, 1964 (according to place of residence)*

Cities	White			Nonwhite			All races	
	Respira- tory	Other	Total	Respira- tory	Other	Total	Number	Rate(a)
Minneapolis, Minn. ....	17	0	17	0	0	0	17	3.7
Mobile, Ala. ....	5	0	5	10	2	12	17	7.5
Montgomery, Ala. ....	1	1	2	4	0	4	6	4.0
Nashville-Davidson Co., Tenn. ....	16	0	16	2	0	2	18	4.1
Newark, N. J. ....	22	2	24	23	7	30	54	13.8
New Bedford, Mass. ....	4	0	4	0	0	0	4	3.9
New Haven, Conn. ....	3	0	3	0	0	0	3	2.0
New Orleans, La. ....	36	0	36	42	1	43	79	11.9
Newport News, Va. ....	4	0	4	3	0	3	7	5.6
New York, N. Y. ....	363	18	381	222	25	247	628	8.0
Niagara Falls, N. Y. ....	2	0	2	0	0	0	2	1.9
Norfolk, Va. ....	5	2	7	7	2	9	16	5.1
Oakland, Calif. ....	9	1	10	4	2	6	16	4.1
Oklahoma City, Okla. ....	9	0	9	4	2	6	15	4.0
Omaha, Nebr. ....	6	0	6	5	0	5	11	3.2
Pasadena, Calif. ....	6	0	6	2	0	2	8	6.5
Paterson, N. J. ....	7	1	8	6	2	8	16	11.0
Peoria, Ill. ....	3	0	3	1	0	1	4	4.0
Philadelphia, Pa. ....	99	4	103	62	10	72	175	8.4
Phoenix, Ariz. ....	35	3	38	5	0	5	43	8.2
Pittsburgh, Pa. ....	50	1	51	19	1	20	71	12.7
Portland, Ore. ....	18	2	20	1	0	1	21	5.5
Portsmouth, Va. ....	2	0	2	1	0	1	3	2.5
Providence, R. I. ....	8	1	9	1	1	2	11	5.6
Richmond, Va. ....	4	1	5	8	1	9	14	6.4
Rochester, N. Y. ....	8	0	8	2	0	2	10	3.3
Rockford, Ill. ....	4	0	4	0	0	0	4	3.0
Sacramento, Calif. ....	11	1	12	4	0	4	16	7.2
St. Louis, Mo. ....	45	1	46	21	4	25	71	10.4
St. Paul, Minn. ....	12	2	14	0	0	0	14	4.5
St. Petersburg, Fla. ....	6	1	7	1	0	1	8	3.7
Salt Lake City, Utah. ....	5	0	5	0	0	0	5	2.5
San Antonio, Texas. ....	48	2	50	6	0	6	56	8.4
San Diego, Calif. ....	19	0	19	2	0	2	21	3.3
San Francisco, Calif. ....	40	1	41	16	1	17	58	7.7
San Jose, Calif. ....	8	0	8	0	0	0	8	2.6
Santo Ana, Calif. ....	3	1	4	0	0	0	4	3.0
Savannah, Ga. ....	0	0	0	8	1	9	9	6.3
Scranton, Pa. ....	20	0	20	0	0	0	20	18.9
Seattle, Wash. ....	16	0	16	5	0	5	21	3.7
Shreveport, La. ....	9	0	9	8	1	9	18	10.3
South Bend, Ind. ....	6	0	6	2	0	2	8	5.8
Spokane, Wash. ....	5	1	6	0	0	0	6	3.3
Springfield, Mass. ....	8	0	8	1	0	1	9	5.0
Syracuse, N. Y. ....	5	1	6	2	1	3	9	4.2
Tacoma, Wash. ....	4	0	4	0	0	0	4	2.6
Tampa, Fla. ....	6	1	7	4	0	4	11	3.5
Toledo, Ohio ....	10	0	10	2	1	3	13	3.6
Topeka, Kans. ....	4	0	4	0	0	0	4	3.3
Torrance, Calif. ....	2	0	2	0	0	0	2	1.7
Trenton, N. J. ....	5	0	5	0	0	0	5	4.6
Tucson, Ariz. ....	22	1	23	3	0	3	26	10.1
Tulsa, Okla. ....	15	1	16	3	2	5	21	7.3
Utica, N. Y. ....	6	0	6	0	1	1	7	7.2
Washington, D. C. ....	30	3	33	57	7	64	97	12.2
Waterbury, Conn. ....	2	0	2	1	0	1	3	2.6
Wichita, Kans. ....	5	0	5	1	0	1	6	2.3
Wichita Falls, Texas. ....	3	0	3	0	0	0	3	2.7
Winston-Salem, N. C. ....	1	0	1	3	0	3	4	3.3
Worcester, Mass. ....	6	1	7	0	0	0	7	3.6
Yonkers, N. Y. ....	6	0	6	0	0	0	6	3.0
Youngstown, Ohio ....	6	0	6	1	0	1	7	4.3
Total 131 Cities. ....	2 180	115	2,295	1,108	147	1,255	3,550	6.6
Remainder of U.S. ....	3 531	266	3,797	827	129	956	4,753	3.4
Total United States. ....	5 711	381	6,092	1 935	276	2,211	8,303	4.3

(a) Rate per 100,000 population.  
 NOTE: Data from National Center for Health Statistics.

**TABLE 30**

*Tuberculosis deaths and death rates by age, race, and sex: United States, 1964*

Age	Tuberculosis deaths								
	All races			White			Nonwhite		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Under 1	18	10	8	7	4	3	11	6	5
1-4	61	33	28	38	22	16	23	11	12
5-9	19	9	10	10	5	5	9	4	5
10-14	17	7	10	8	6	2	9	1	8
15-19	42	17	25	21	11	10	21	6	15
20-24	67	31	36	25	13	12	42	18	24
25-29	114	57	57	45	24	21	69	33	36
30-34	189	103	86	79	41	38	110	62	48
35-39	373	217	156	192	113	79	181	104	77
40-44	443	275	168	251	160	91	192	115	77
45-49	582	400	182	359	240	119	223	160	63
50-54	771	586	185	558	425	133	213	161	52
55-59	893	734	159	662	550	112	231	184	47
60-64	951	790	161	734	618	116	217	172	45
65-69	1,000	806	194	767	628	139	233	178	55
70-74	1,007	777	230	824	631	193	183	146	37
75-79	870	640	230	739	552	187	131	88	43
80-84	516	343	173	462	307	155	54	36	18
85+	366	216	150	310	177	133	56	39	17
Not Stated	4	4	0	1	1	0	3	3	0
All Ages	8,303	6,055	2,248	6,092	4,528	1,564	2,211	1,527	684

Age	Death rate per 100,000 population								
	All races			White			Nonwhite		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Under 1	0.4	0.5	0.4	0.2	0.2	0.2	1.7	1.8	1.5
1-4	0.4	0.4	0.3	0.3	0.3	0.2	0.9	0.9	0.9
5-9	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
10-14	0.1	0.1	0.1	0.1	0.1	(*)	0.4	0.1	0.6
15-19	0.3	0.2	0.3	0.1	0.2	0.1	1.0	0.6	1.5
20-24	0.5	0.5	0.5	0.2	0.2	0.2	2.7	2.4	3.0
25-29	1.0	1.0	1.0	0.5	0.5	0.4	5.2	5.3	5.1
30-34	1.7	1.9	1.5	0.8	0.8	0.8	8.3	10.2	6.7
35-39	3.1	3.7	2.5	1.8	2.1	1.4	13.4	16.7	10.6
40-44	3.6	4.6	2.6	2.3	3.0	1.6	14.8	18.9	11.2
45-49	5.1	7.2	3.1	3.5	4.8	2.3	19.9	30.2	10.6
50-54	7.4	11.5	3.5	5.9	9.2	2.8	20.9	33.0	9.8
55-59	9.9	16.8	3.4	8.1	13.9	2.7	28.0	45.9	11.1
60-64	12.4	21.6	4.0	10.5	18.6	3.2	31.3	50.7	12.7
65-69	16.0	28.2	5.7	13.3	23.9	4.4	48.6	79.5	21.6
70-74	19.5	33.9	8.0	17.3	29.9	7.3	45.0	78.9	16.7
75-79	24.8	42.2	11.6	22.7	39.3	10.1	52.4	76.5	31.9
80-84	27.0	43.6	15.4	26.2	42.8	14.9	36.7	52.9	22.5
85+	35.3	54.7	23.4	32.6	49.4	22.5	64.4	105.4	34.0
All Ages	4.3	6.4	2.3	3.6	5.5	1.8	9.8	13.9	5.9

\* Less than 0.05.

**TABLE 31**  
*Leading causes of death, United States, 1964*

Rank	Causes of death (a)	Deaths	Rate(b)
1	Diseases of heart . . . . .	699,861	365.8
2	Malignant neoplasms . . . . .	289,577	151.3
3	Vascular lesions, central nervous system . . . . .	198,209	103.6
4	Accidents . . . . .	103,843	54.3
5	Certain diseases of early infancy . . . . .	60,322	31.5
6	Influenza and pneumonia . . . . .	59,451	31.1
7	General arteriosclerosis . . . . .	37,176	19.4
8	Diabetes mellitus . . . . .	32,279	16.9
9	Other diseases, circulatory system . . . . .	25,745	13.5
10	Other bronchopulmonic diseases . . . . .	23,427	12.2
11	Cirrhosis of liver . . . . .	23,164	12.1
12	Suicide . . . . .	20,588	10.8
13	Congenital malformations . . . . .	20,288	10.6
14	Other hypertensive disease . . . . .	12,191	6.4
15	Chronic unspecified nephritis . . . . .	11,079	5.8
16	Ulcer, stomach and duodenum . . . . .	10,969	5.7
17	Hernia, intestinal obstruction . . . . .	9,944	5.2
18	Infections of kidney . . . . .	9,889	5.2
19	Homicide . . . . .	9,814	5.1
20	Tuberculosis . . . . .	8,303	4.3
	Other (remaining) causes . . . . .	131,932	
	All causes . . . . .	1,798,051	939.7

(a) Seventh Revision of the International Lists, 1955.

(b) Per 100,000 population.

(1) Diseases of heart, 400-402, 410-443.

(2) Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, 140-205.

(3) Vascular lesions affecting central nervous system, 330-334.

(4) Accidents, E800-E962.

(5) Certain diseases of early infancy, 760-776.

(6) Influenza and pneumonia, except pneumonia of newborn, 480-493.

(7) General arteriosclerosis, 450.

(8) Diabetes mellitus, 260.

(9) Other diseases of circulatory system, 451-468.

(10) Other bronchopulmonic diseases, 525-527.

(11) Cirrhosis of liver, 581.

(12) Suicide, E963, E970-E979.

(13) Congenital malformations, 750-759.

(14) Other hypertensive disease, 444-447.

(15) Chronic and unspecified nephritis and other renal sclerosis, 592-594.

(16) Ulcer of stomach and duodenum, 540, 541.

(17) Hernia and intestinal obstruction, 560, 561, 570.

(18) Infections of kidney, 600.

(19) Homicide, E964, E980-E985.

(20) Tuberculosis, all forms, 001-019.

(Numerals refer to category digits in international classification)

## SOURCES OF DATA

**MORBIDITY:** Annual Tuberculosis Reports, PHS 5.1393, were submitted to the U.S. Public Health Service by each State health department and by health departments of cities with 250,000 or more population. State reports included limited data for all counties within each State and for cities of 100,000 or more population.

**MORTALITY:** Tuberculosis death data for States and cities of 100,000 or more population were provided by the National Center for Health Statistics, Public Health Service.

**POPULATION:** State population estimates are based on Bureau of the Census, Current Population Reports, Series P-25, No. 317, August 27, 1965. Age, race and sex, population estimates were prepared by the Tuberculosis Program, taking into account estimates of the Bureau of the Census and reports of the decennial census enumerations. For cities and counties, population estimates were obtained from various sources, mainly from the respective local or state authorities, since there is no central agency which undertakes this task for the country.



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