

PUBLIC HEALTH REPORTS

VOL. 45

JANUARY 24, 1930

No. 4

CORRECTED FATALITY RATES IN PUBLIC HEALTH PRACTICE

By HOWARD W. GREEN, B. S., *Secretary, Cleveland Health Council*, and GEORGE W. MOOREHOUSE, M. D., *Formerly Chief, Bureau of Communicable Diseases, Cleveland Division of Health*

The fatality rate is the percentage of the cases which result in death. In a hospital both of these factors are definitely known and the fatality rate may easily be calculated for hospital cases. This is also true in the case of the private practitioner. The calculation of the fatality rate in a city or a state, however, involves an indeterminate factor, the actual number of cases, as only the number of reported cases is known. The cases reported are often quite different from the actual cases due to the fact that only a part of the cases are reported. The consideration of the percentage of cases which are reported, i. e., the index of reporting; the calculation of an estimated number of cases and the fatality rates based upon their estimate, or the corrected fatality rates, are here presented.

Comparisons of the number of cases of any of the common reportable communicable diseases over a period of time in one city or for the same period of time in several cities have not been significant because of variations in the reporting of these diseases.

The fatality rate has been used at times as an index of reporting by assuming that the fatality rate of each disease does not vary much from year to year or from place to place for that disease. Whipple¹ pointed out that the reporting of cases is not uniform from year to year. He stated that when epidemics occur, a larger percentage of the existing cases are reported and therefore the fatality rate is considerably lower than in years when no epidemic occurs. As an illustration, Cleveland in 1903 experienced its last severe epidemic of typhoid fever during which time 3,446 cases and 472 deaths were reported, giving a fatality rate of 14 per cent while during the previous year the fatality rate amounted to 49 per cent with 272 cases and 133 deaths, and during the succeeding year 1,468 cases and 203 deaths gave a fatality rate of 14 per cent. These calculations indicate two things very concretely, first, that only a small percentage of the total actual cases were reported in 1902 and second, that Whipple's statement was quite correct for those years when reporting was more hit

¹Whipple, George Chandler: *Vital Statistics*, second edition.

and miss than is generally true at the present time in most cities, including Cleveland. However, it is still true in the case of an epidemic of a disease less commonly reported, such as influenza, that the fatality rate as ordinarily calculated varies considerably.

INDEX OF REPORTING

An analysis of the deaths from each of the common reportable communicable diseases according to whether each fatal case was or was not reported as a case before death provides data from which an index of reporting may be calculated. The index is shown as the per cent of the deaths that were previously reported as cases.² The percentages for each of the common reportable communicable diseases are given below.

TABLE 1.—Per cent of deaths previously reported as cases, Cleveland, Ohio, 1923-1928

| Disease | Per cent | Disease | Per cent |
|------------------------------|----------|-----------------------------|----------|
| Typhoid and paratyphoid..... | 85 | Erysipelas..... | 72 |
| Smallpox..... | 91 | Acute poliomyelitis..... | 94 |
| Measles..... | 67 | Tetanus..... | 157 |
| Scarlet fever..... | 94 | Epidemic meningitis..... | 86 |
| Whooping cough..... | 78 | Pneumonia..... | 128 |
| Diphtheria..... | 98 | Diarrhea and enteritis..... | 35 |
| Influenza..... | 22 | Puerperal septicemia..... | 14 |

¹ One year omitted.

² Two years omitted.

In the case of measles, scarlet fever, whooping cough, and diphtheria a slight increase has taken place since 1923 in the percentage of deaths reported as cases prior to death. The increase in the percentage of the deaths which were previously reported as cases demonstrates improvement in the reporting of cases by physicians and the more adequate checking of the secondary cases by the public health nurses on their visits in the home.

ESTIMATED TOTAL CASES

The estimated total number of cases is based upon this index of reporting and involves the assumption that the proportion of cases reported is the same for fatal and nonfatal cases. The estimated total cases must be considered as the estimated number of cases attended by physicians which would have been reported had all physicians been reporting conscientiously every case which they had diagnosed. In considering these cases account must be taken of the severity of the disease and of the practice of the family relative to the employment of the physician. With respect to diphtheria or scarlet fever, for instance, the cases vary from those of great severity to mild and presumably

¹ If a report of a case is received previous to the death certificate, the death is recorded as that of a reported case.

unrecognizable cases scarcely regarded by a careful family as an illness. Furthermore, the families vary from those who delay calling the physician until the case is far advanced to those who call the physician for advice on the slightest provocation.

With these variations the cases reported consist of two rather distinct groups, those seen relatively soon after onset and those seen sometime after, perhaps because the disease progressed much more rapidly than expected. The estimated total cases will not include the cases not seen by physicians which may be of slight severity and either recognized by the family with reasonable accuracy or in which the characteristic symptoms are too slight for such recognition. These latter cases probably account for adult immunity without history of the disease.

CORRECTED FATALITY RATES

The calculation of corrected fatality rates is based upon the total number of deaths and the estimated total number of cases. The detailed data and calculations of the fatality rates for the common reportable communicable diseases occurring during a period of six years in Cleveland, Ohio, are shown in Table A in the appendix. The corrected fatality rates are shown in the following table:

TABLE 2.—*Corrected fatality rates in Cleveland, Ohio*

| Disease | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1923-1928 |
|-------------------------|------|------|------|------|------|------|-----------|
| Typhoid and paratyphoid | | | | | | | 12 |
| Smallpox | | | | | | | 6 |
| Measles | 0.45 | 0.53 | 0.15 | 0.46 | 0.34 | 0.31 | .42 |
| Scarlet fever | 1.5 | 1.3 | 1.2 | 1.3 | 1.1 | 1.6 | 1.4 |
| Whooping cough | 1.6 | 1.2 | 1.7 | 2.2 | 1.0 | 1.6 | 1.6 |
| Diphtheria | 6.8 | 6.5 | 7.2 | 7.7 | 6.2 | 6.4 | 6.8 |
| Influenza | 3.1 | 7.7 | 4.2 | 2.3 | 6.6 | 2.0 | 2.4 |
| Erysipelas | 8.1 | 7.4 | 8.4 | 9.1 | 9.2 | 8.9 | 8.5 |
| Acute poliomyelitis | | | | | | | 13 |
| Tetanus | | | | | | | 41 |
| Epidemic meningitis | | | | | | | 40 |
| Pneumonia | 18 | | 16 | 15 | 17 | 15 | 17 |
| Diarrhea and enteritis | | | 10 | 9 | 12 | 12 | 12 |
| Puerperal septicemia | | 84 | 69 | 33 | 20 | 25 | 36 |

The estimated total cases need not be calculated to obtain these corrected fatality rates. They may be calculated directly by determining the percentage of the cases reported that resulted fatally, leaving out of account the deaths not previously reported as cases. The resulting rates will be identical to those in the above tabulation.

The corrected fatality rates are smaller than the fatality rates as ordinarily calculated except in those instances in which all of the fatal cases are reported prior to death, in which instance they are identical. As the index of reporting approaches 100 the difference in the fatality rates calculated by the two methods approaches zero.

The index of reporting of influenza is 22 per cent for the 6-year period, i. e., 22 per cent of the deaths from influenza were previously reported as cases. For this reason the fatality rates as ordinarily calculated are much greater than the corrected fatality rates as illustrated by the first two lines in the tabulation shown below. The last line shows partially corrected fatality rates. These rates are based upon deaths and cases estimated in the following manner: To the cases reported are added the deaths not reported as cases prior to death. Those diseases which are reported at all completely or for which the number of cases reported is large and the deaths small show a very small difference between fatality rates as ordinarily calculated and as calculated on the cases estimated as just described. The use of this method of calculating fatality rates and estimating cases should be discouraged, since clearly the number of cases estimated in this way is too low.

TABLE 3.—*Influenza case fatality rates computed in three ways, Cleveland, Ohio*

| | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1923-1928 |
|--------------------------|------|------|------|------|------|------|-----------|
| Ordinary..... | 17.8 | 47.9 | 46.5 | 15.5 | 41.6 | 4.6 | 11.2 |
| Corrected..... | 3.1 | 7.7 | 4.2 | 2.3 | 6.6 | 2.0 | 2.4 |
| Partially corrected..... | 15.5 | 34.2 | 32.6 | 13.7 | 30.8 | 4.5 | 10.3 |

The actual fatality rates will vary from time to time because of variations in the virulence of the organism, in the resistance of the human organism and in the efficacy of the treatment. Nevertheless it may be assumed that actual fatality rates should not vary as much as the ordinary fatality rates based on reported cases. This has been found to be the case as indicated by comparisons of the coefficients of variation for each series.

The data in *The Notifiable Diseases* published by the United States Public Health Service for 1925, 1926, and 1927 have been analyzed for the cities having 500,000 population or more. This analysis shows a considerable variation in the fatality rates for these 13 cities. In the case of measles the average case fatality rates, for the three years, range from 0.2, 0.3, and 0.5 per cent in Milwaukee, San Francisco, and Washington to 1.4, 1.7, and 1.8 per cent in Boston, New York, and Detroit. And in the case of scarlet fever they vary from 0.7 per cent in Baltimore, New York, and Washington to 1.5, 1.6, and 1.7 per cent in Detroit, Buffalo, and Chicago. In the case of whooping cough the rates vary from 0.9, 2.2, and 2.3 per cent in Milwaukee, Buffalo, and San Francisco to 4.2, 4.2, and 5.6 per cent in St. Louis, Pittsburgh, and New York.

The city with a low case fatality rate for one disease often has a high rate for another disease. It has also been observed that the cities with the high rates for the 3-year average frequently have a low rate for one or more of the years making up the average.

It is probable that the variation from city to city in the fatality rate is not only due to the completeness or lack of completeness of reporting but that other factors are involved. If the completeness of the reporting of cases were the only factor it might be expected that a city with a high fatality rate for one disease (caused by poor reporting of cases) would have a relatively high fatality rate for each of the common reportable diseases, at least it would be expected to hold about the same position in the array from year to year for the same disease. Neither of these conditions is true and therefore before studies can be made of the underlying causes of the variation in fatality rates from year to year and place to place the uncertainty relative to reporting must be eliminated. If several of the larger cities, besides reporting cases registered and deaths, would classify deaths as reported or not reported as cases prior to death, thus allowing for the calculation of the corrected fatality rates and the estimated total cases, it is believed that some progress might be made toward the understanding of some of the underlying principles involved in the variation of fatality rates.

As an illustration of the present impossibility of comparing fatality rates the following fatality rates for measles are given for New York City and for Cleveland:

| Year | New York Ordinary | Cleveland | | Year | New York Ordinary | Cleveland | |
|------|-------------------|-----------|-----------|------|-------------------|-----------|-----------|
| | | Ordinary | Corrected | | | Ordinary | Corrected |
| 1920 | 2.2 | | | 1925 | 1.4 | .22 | .15 |
| 1921 | 2.1 | | | 1926 | 1.8 | .78 | .46 |
| 1922 | 2.4 | | | 1927 | 1.8 | .34 | .34 |
| 1923 | 1.8 | 0.45 | 0.45 | 1928 | 1.0 | .44 | .31 |
| 1924 | 1.5 | .88 | .53 | | | | |

It is evident that the Cleveland rates are smaller than the New York rates for each year and that a comparison with the Cleveland corrected rates shows considerable differences. Is it fair to assume that a smaller portion of the cases are reported in New York or that the organism is more virulent, the human resistance lower, or the treatment of the cases less effective?

As a further illustration of the present dilemma the following data on diphtheria for Detroit ³ is introduced:

| Year | Number of deaths | Death rate per 100,000 population | Deaths per 100 cases | Number of cases | Children immunized |
|-------------------|------------------|-----------------------------------|----------------------|--------------------|--------------------|
| 1920 | 371 | 26.3 | 8.3 | 4,478 | 0 |
| 1921 | 334 | 35.5 | 7.1 | 4,689 | |
| 1922 | 204 | 21.4 | 7.3 | 2,779 | |
| 1923 | 206 | 19.5 | 8.5 | 2,424 | |
| 1924 | 162 | 14.3 | 7.6 | 2,138 | |
| 1925 | 118 | 9.6 | 7.3 | 1,615 | 136,601 |
| 1926 | 450 | 34.8 | 14.1 | 3,181 | 105,904 |
| 1927 | 278 | 20.8 | 11.3 | 2,458 | 86,780 |
| 1928 | 224 | 16.3 | 11.4 | 1,958 | 12,167 |
| 1929 ¹ | ² 357 | ² 25.1 | ² 13.5 | ² 2,638 | ² 8,570 |

¹ Includes 1921-1925, inclusive.

² Estimated—based on 1,539 cases and 208 deaths during first 7 months with a population of 1,420,000.

The fatality rate of about 8 during six years, 1920 to 1925 increased to about 11 to 14 with the immunization of some 100,000 children. The corrected fatality rates for 1925 and 1926 should shed light upon the question of whether the percentage of cases reported had decreased or the disease had actually become more severe.

SUMMARY

1. A method of calculating (a) an index of completeness of reporting, (b) estimated total cases, and (c) fatality rates based on these estimates has been presented.

2. The fatality rates here presented are based upon the number of deaths among reported cases and the total number of cases reported. These fatality rates present more nearly the actual fatality rates than the fatality rates as ordinarily calculated.

3. When either all cases are reported or this, or some other more satisfactory method of estimating the total cases, is adopted, then and only then can epidemiological studies based on reported cases be made with a view of understanding the effect of the other factors which cause these large variations in the case fatality from place to place and year to year.

4. It seems desirable that some large cities adopt this procedure and report cases and deaths for several notifiable diseases in such a manner as to make possible the calculation of the corrected fatality rates. The data should be tabulated as cases and deaths separated as to whether or not the case was reported prior to death. As an illustration the following example is inserted:

| Reported cases | Deaths | | |
|----------------|-------------------|-----------------------|-------|
| | Reported as cases | Not reported as cases | Total |
| 1,000 | 10 | 5 | 15 |

³ From Weekly Health Review, Detroit Department of Health of Sept. 14, 1929.

From these data it may be assumed that 10 deaths occurred in the 1,000 cases reported and that since 5 other deaths occurred then probably 500 additional cases existed in the community. If this is the fact, instead of 1.5 per cent of the cases being fatal the rate should be 1.

APPENDIX

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928

TYPHOID AND PARATYPHOID FEVER

| Year | Deaths | | Per cent of deaths reported as cases | Reported cases | Estimated total cases | Fatality rate (per cent) | |
|----------------|--------|-------------------|--------------------------------------|----------------|-----------------------|--------------------------------------|--|
| | Total | Reported as cases | | | | Based upon reported cases (ordinary) | Based upon estimated total cases (corrected) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1923-1928..... | 75 | 64 | 85 | 540 | 633 | 14 | 12 |

SMALLPOX

| | | | | | | | |
|----------------|----|----|----|-----|-----|---|---|
| 1923-1928..... | 11 | 10 | 91 | 181 | 199 | 6 | 6 |
|----------------|----|----|----|-----|-----|---|---|

MEASLES

| | | | | | | | |
|----------------|-----|-----|-----|--------|--------|------|------|
| 1923..... | 29 | 129 | 109 | 6,411 | 6,411 | 0.45 | 0.45 |
| 1924..... | 20 | 12 | 60 | 2,283 | 3,805 | .88 | .53 |
| 1925..... | 6 | 4 | 67 | 2,664 | 3,996 | .22 | .15 |
| 1926..... | 107 | 63 | 59 | 13,677 | 23,200 | .78 | .46 |
| 1927..... | 1 | 1 | 100 | 295 | 295 | .34 | .34 |
| 1928..... | 14 | 10 | 71 | 3,207 | 4,490 | .44 | .31 |
| 1923-1928..... | 177 | 119 | 67 | 28,537 | 42,446 | .62 | .42 |

SCARLET FEVER

| | | | | | | | |
|----------------|-----|-----|-----|--------|--------|-----|-----|
| 1923..... | 58 | 155 | 95 | 3,653 | 3,860 | 1.6 | 1.5 |
| 1924..... | 12 | 111 | 91 | 817 | 899 | 1.5 | 1.3 |
| 1925..... | 15 | 12 | 80 | 1,001 | 1,251 | 1.5 | 1.2 |
| 1926..... | 33 | 31 | 94 | 2,301 | 2,449 | 1.4 | 1.3 |
| 1927..... | 17 | 17 | 100 | 1,517 | 1,517 | 1.1 | 1.1 |
| 1928..... | 16 | 16 | 100 | 985 | 985 | 1.6 | 1.6 |
| 1923-1928..... | 151 | 142 | 94 | 10,284 | 10,936 | 1.5 | 1.4 |

WHOOPIING COUGH

| | | | | | | | |
|----------------|-----|-----|----|--------|--------|-----|-----|
| 1923..... | 34 | 126 | 75 | 1,629 | 2,172 | 2.1 | 1.6 |
| 1924..... | 36 | 27 | 75 | 2,344 | 3,125 | 1.5 | 1.2 |
| 1925..... | 56 | 40 | 71 | 2,359 | 3,303 | 2.4 | 1.7 |
| 1926..... | 105 | 80 | 76 | 3,582 | 4,701 | 2.9 | 2.2 |
| 1927..... | 17 | 15 | 88 | 1,437 | 1,629 | 1.2 | 1.0 |
| 1928..... | 51 | 45 | 88 | 2,820 | 3,196 | 1.8 | 1.6 |
| 1923-1928..... | 299 | 233 | 78 | 14,171 | 18,185 | 2.1 | 1.6 |

¹ Estimated on cases checked with deaths.

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928—Continued

DIPHTHERIA

| Year | Deaths | | Per cent of deaths reported as cases | Reported cases | Estimated total cases | Fatality rate (per cent) | |
|-----------|--------|-------------------|--------------------------------------|----------------|-----------------------|--------------------------------------|--|
| | Total | Reported as cases | | | | Based upon reported cases (ordinary) | Based upon estimated total cases (corrected) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1923 | 114 | ¹ 110 | 96 | 1,621 | 1,683 | 7.0 | 6.8 |
| 1924 | 79 | 71 | 90 | 1,094 | 1,217 | 7.2 | 6.5 |
| 1925 | 138 | 125 | 91 | 1,733 | 1,913 | 8.0 | 7.2 |
| 1926 | 192 | 174 | 91 | 2,263 | 2,497 | 8.5 | 7.7 |
| 1927 | 188 | 178 | 95 | 2,862 | 3,023 | 6.6 | 6.2 |
| 1928 | 104 | 102 | 98 | 1,588 | 1,619 | 6.5 | 6.4 |
| 1923-1928 | 815 | 760 | 93 | 11,161 | 11,969 | 7.3 | 6.8 |

INFLUENZA

| | | | | | | | |
|-----------|-----|-----------------|----|-------|--------|------|-----|
| 1923 | 130 | ¹ 22 | 17 | 729 | 4,221 | 17.8 | 3.1 |
| 1924 | 81 | 13 | 16 | 169 | 1,053 | 47.9 | 7.7 |
| 1925 | 111 | 10 | 9 | 239 | 2,652 | 46.5 | 4.2 |
| 1926 | 232 | 34 | 15 | 1,499 | 10,228 | 15.5 | 2.3 |
| 1927 | 57 | 9 | 16 | 137 | 868 | 41.6 | 6.6 |
| 1928 | 209 | 90 | 43 | 4,551 | 10,568 | 4.0 | 2.0 |
| 1923-1928 | 820 | 178 | 22 | 7,324 | 33,740 | 11.2 | 2.4 |

ERYSIPELAS

| | | | | | | | |
|-----------|-----|-----------------|----|-------|-------|------|-----|
| 1923 | 22 | ¹ 19 | 87 | 237 | 273 | 9.3 | 8.1 |
| 1924 | 19 | 17 | 89 | 231 | 258 | 8.2 | 7.4 |
| 1925 | 30 | 24 | 80 | 285 | 356 | 10.5 | 8.4 |
| 1926 | 41 | 25 | 61 | 274 | 449 | 15.0 | 9.1 |
| 1927 | 30 | 21 | 70 | 228 | 326 | 13.1 | 9.2 |
| 1928 | 41 | 26 | 63 | 292 | 460 | 14.0 | 8.9 |
| 1923-1928 | 183 | 132 | 72 | 1,647 | 2,145 | 11.8 | 8.5 |

ACUTE POLIOMYELITIS

| | | | | | | | |
|-----------|----|----|----|-----|-----|------|------|
| 1923-1928 | 44 | 37 | 84 | 286 | 340 | 15.4 | 12.9 |
|-----------|----|----|----|-----|-----|------|------|

TETANUS

| | | | | | | | |
|-----------|----|----|----|----|----|----|----|
| 1924-1928 | 21 | 12 | 57 | 29 | 51 | 72 | 41 |
|-----------|----|----|----|----|----|----|----|

EPIDEMIC MENINGITIS

| | | | | | | | |
|-----------|----|----|----|-----|-----|----|----|
| 1923-1928 | 92 | 79 | 86 | 198 | 231 | 46 | 40 |
|-----------|----|----|----|-----|-----|----|----|

PNEUMONIA

| | | | | | | | |
|-----------------|-------|------------------|----|-------|--------|----|----|
| 1923 | 1,181 | ¹ 401 | 34 | 2,191 | 6,459 | 54 | 18 |
| 1925 | 1,064 | 287 | 27 | 1,651 | 5,696 | 64 | 16 |
| 1926 | 1,194 | 306 | 26 | 2,030 | 7,956 | 59 | 15 |
| 1927 | 827 | 218 | 26 | 1,263 | 4,753 | 66 | 17 |
| 1928 | 1,014 | 249 | 25 | 1,665 | 6,780 | 61 | 15 |
| 1923, 1925-1928 | 5,280 | 1,461 | 28 | 8,799 | 31,799 | 60 | 17 |

¹ Estimated on cases checked with deaths.

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928—Continued

DIARRHEA AND ENTERITIS UNDER 2 YEARS

| Year | Deaths | | Per cent of deaths reported as cases | Reported cases | Estimated total cases | Fatality rate (per cent) | |
|----------------|--------|-------------------|--------------------------------------|----------------|-----------------------|--------------------------------------|--|
| | Total | Reported as cases | | | | Based upon reported cases (ordinary) | Based upon estimated total cases (corrected) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1925..... | 238 | 8 | 3 | 69 | 2,503 | 345 | 10 |
| 1926..... | 176 | 3 | 2 | 33 | 1,936 | 533 | 9 |
| 1927..... | 115 | 10 | 9 | 83 | 955 | 138 | 12 |
| 1928..... | 108 | 10 | 9 | 84 | 907 | 128 | 12 |
| 1925-1928..... | 637 | 31 | 5 | 269 | 5,523 | 237 | 12 |

PUERPERAL SEPTICEMIA

| | | | | | | | |
|----------------|-----|---|----|----|-----|-------|----|
| 1924..... | 52 | 5 | 10 | 6 | 62 | 867 | 84 |
| 1925..... | 50 | 0 | 0 | 3 | 190 | 1,667 | 63 |
| 1926..... | 52 | 1 | 2 | 3 | 156 | 1,733 | 33 |
| 1927..... | 38 | 1 | 3 | 5 | 190 | 760 | 20 |
| 1928..... | 47 | 2 | 4 | 8 | 188 | 762 | 25 |
| 1924-1928..... | 239 | 9 | 4 | 25 | 664 | 956 | 36 |

¹ Based on ratio for groups.

SUMMARY OF CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES ¹

December 1-28, 1929

The prevalence of certain important communicable diseases as indicated by weekly telegraphic reports from State health departments ² to the Public Health Service is summarized below. This summary is prepared from the data published weekly in the Public Health Reports under the section entitled "Prevalence of Disease."

Smallpox.—The smallpox incidence during the period December 1-28, 1929, was considerably in excess of the expectancy for the period. The reported number of cases was 3,907, as compared with 2,149 and 2,784 for the corresponding period of 1928 and 1927, respectively.

Considerable numbers of cases were reported from the States adjoining the Great Lakes: Indiana (643), Ohio (565), Illinois (465), and Michigan (269). The incidence was also fairly heavy in Iowa (382), Oklahoma (255), and Washington (311).

Smallpox normally comes to a peak toward the end of March.

¹ From the Office of Statistical Investigations, U. S. Public Health Service.

² The numbers of States reporting for the various diseases are as follows: Typhoid fever, 41; poliomyelitis, 43; meningococcus meningitis, 42; smallpox, 42; measles, 38; diphtheria, 42; scarlet fever, 41; influenza, 31.

Meningococcus meningitis.—The incidence of meningococcus meningitis continued higher than during the preceding three years. During the month of December 666 cases were reported, as compared with 562 and 221 for the corresponding period of 1928 and 1927, respectively. As the disease normally comes to a peak about March, it is not unlikely that the cases will increase further during the coming months.

Poliomyelitis.—The customary seasonal decline in poliomyelitis was experienced during the period under consideration. The incidence was slightly below the median of recent years.

Typhoid fever.—The incidence of typhoid fever was at about the same low level as last year.

Measles.—The measles incidence was the lowest for the last four years. The reported cases numbered 12,046, a decline of about one-third from the average of recent years.

Influenza.—The incidence of influenza was about equal to the non-epidemic average of recent years; 3,241 cases were reported, as compared with over 321,000 cases during the corresponding period of last year, when the epidemic was approaching its peak.

Diphtheria.—The incidence of diphtheria was also the lowest for the last four years. The reported number of cases was 7,257, as compared with 7,538 last year. The disease has already begun its customary seasonal decline.

Mortality from all causes.—Mortality from all causes in large cities during the current four weeks under report averaged 13.4 per thousand population, according to the Weekly Health Index of the United States Census Bureau. Last year during the corresponding period the rate was 15.6, and the influenza epidemic was at that time spreading rapidly.

RECENT STATE MORTALITY STATISTICS *

For the information of public health officials and others interested, the rates in the following tables have been computed from monthly mortality data furnished by the State health departments for the latest month for which records are available. For purposes of comparison, the mortality records for a few preceding years are given, the rates being those for the month corresponding to the latest month for which the 1929 rate is available.

* From the Office of Statistical Investigations, United States Public Health Service.

Monthly State mortality statistics

[All rates are on an annual basis, and, with the exception of mortality from all causes, infant mortality, and congenital malformations and diseases of early infancy, are per 100,000 population]

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|---|------|------|------|------|------|------|------|-------|------|------|--------------------------|------|------|------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | 1928 | 1927 | 1926 | 1925 |
| ALL CAUSES: ANNUAL RATE PER 1,000 POPULATION | | | | | | | | | | | | | | |
| Alabama..... | 12.6 | 11.4 | 11.2 | 11.9 | 11.8 | 11.1 | 11.0 | 10.8 | 11.0 | 10.8 | 10.8 | 10.6 | 10.6 | 9.8 |
| White..... | 11.2 | 10.0 | 9.0 | 9.2 | 9.2 | 8.7 | 8.5 | 8.4 | 8.8 | 8.7 | 8.3 | 8.7 | 8.7 | --- |
| Colored..... | 17.2 | 15.7 | 15.3 | 16.9 | 16.8 | 15.7 | 15.7 | 15.5 | 15.1 | 14.8 | 13.1 | 14.1 | 14.1 | --- |
| California..... | 15.7 | 15.4 | 15.2 | 13.8 | 14.2 | 13.1 | 12.8 | 12.4 | 12.4 | 12.5 | --- | --- | --- | --- |
| Connecticut..... | 14.8 | 12.2 | 10.4 | 11.1 | 9.0 | 9.3 | 8.9 | 9.5 | 10.2 | 10.1 | 9.4 | 10.2 | 11.0 | --- |
| Georgia..... | 11.2 | 9.2 | 9.6 | 9.1 | 11.3 | 10.3 | 10.0 | --- | 10.5 | --- | --- | --- | --- | --- |
| Hawaii Territory..... | 15.2 | 14.6 | 14.6 | 14.5 | 12.7 | 12.1 | 9.7 | 10.8 | 10.3 | 12.1 | 11.6 | --- | --- | --- |
| Indiana..... | 14.0 | 13.4 | 12.4 | 12.2 | 11.0 | 10.5 | 10.5 | 10.9 | 14.3 | 12.2 | 11.3 | 11.4 | 11.7 | --- |
| Iowa..... | 12.2 | 11.0 | 10.7 | 10.4 | --- | 9.2 | 8.6 | 9.7 | 9.5 | 9.7 | --- | --- | --- | --- |
| Kansas..... | 12.7 | 12.1 | 11.0 | 9.8 | 9.6 | 11.1 | 10.8 | 11.1 | --- | 11.5 | --- | --- | --- | --- |
| Louisiana..... | 13.4 | 12.1 | 11.5 | 11.2 | 11.6 | 11.2 | 8.3 | 8.4 | 9.0 | 8.9 | --- | --- | --- | --- |
| White..... | 10.9 | 9.7 | 8.8 | 8.2 | 8.2 | 16.0 | 15.1 | 15.1 | --- | 16.4 | --- | --- | --- | --- |
| Colored..... | 18.0 | 16.3 | 16.5 | 16.7 | 16.9 | 11.7 | 11.8 | 11.1 | 12.2 | --- | --- | --- | --- | --- |
| Maryland..... | --- | --- | --- | --- | --- | 10.4 | 10.8 | 9.9 | 11.0 | --- | --- | --- | --- | --- |
| White..... | --- | --- | --- | --- | --- | 18.4 | 17.5 | 16.8 | 18.2 | --- | --- | --- | --- | --- |
| Colored..... | --- | --- | --- | --- | --- | 10.8 | 10.4 | 11.2 | 10.9 | 10.9 | --- | --- | --- | --- |
| Michigan..... | 12.9 | 13.2 | 12.7 | 13.2 | 11.7 | 10.8 | 10.4 | 11.2 | 10.9 | 8.6 | --- | --- | --- | --- |
| Minnesota..... | 9.1 | 9.7 | 9.3 | 9.2 | 8.6 | 8.3 | 8.0 | 7.9 | 8.1 | 10.7 | --- | --- | --- | --- |
| Mississippi..... | 14.0 | 13.0 | 11.8 | 11.1 | 12.6 | 11.7 | 10.7 | 10.0 | 8.7 | 12.5 | --- | --- | --- | --- |
| White..... | 11.9 | 10.5 | 8.8 | 8.4 | 9.0 | 8.6 | 8.4 | 8.0 | --- | --- | --- | --- | --- | --- |
| Colored..... | 15.9 | 15.3 | 14.6 | 13.7 | 15.9 | 14.5 | 12.7 | 11.7 | 9.0 | --- | --- | --- | --- | --- |
| Montana..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nebraska..... | 11.9 | 11.0 | 9.7 | 9.6 | 8.4 | 8.2 | 7.7 | --- | --- | 8.2 | --- | --- | --- | --- |
| New Jersey..... | 14.0 | 13.2 | 12.1 | 11.3 | 10.5 | 10.4 | 9.0 | 10.3 | 10.8 | 10.6 | 10.5 | 10.2 | 11.3 | --- |
| New York ¹ | 15.6 | 14.1 | 13.5 | 13.0 | 16.0 | 11.1 | 11.3 | 11.4 | 12.2 | 12.1 | 11.7 | 12.5 | 13.8 | --- |
| North Carolina..... | 15.7 | 12.6 | 11.7 | 11.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pennsylvania..... | 14.0 | 12.9 | 11.7 | 11.2 | 9.8 | 9.6 | 9.2 | 10.0 | 10.6 | 10.9 | 10.6 | 11.3 | 11.9 | --- |
| South Dakota..... | 9.6 | 8.9 | 8.0 | 9.0 | 7.1 | 6.8 | 8.3 | 7.3 | --- | 7.1 | --- | --- | --- | --- |
| Tennessee..... | 14.4 | 13.3 | 11.3 | 10.7 | 10.9 | 11.9 | 10.9 | 10.8 | 11.0 | 10.9 | 10.3 | --- | --- | --- |
| White..... | 12.7 | 11.9 | 9.6 | 9.1 | 9.3 | 10.1 | 9.4 | 9.2 | 9.4 | --- | --- | --- | --- | --- |
| Colored..... | 22.6 | 22.3 | 19.8 | 18.2 | 18.9 | 20.9 | 18.2 | 18.4 | 18.4 | 6.9 | --- | --- | --- | --- |
| Virginia..... | 13.5 | 12.0 | 10.3 | 9.8 | 9.7 | 10.2 | 8.9 | 9.0 | 9.6 | 7.1 | --- | --- | --- | --- |
| White..... | 11.3 | 10.0 | 8.8 | 7.8 | 8.0 | 8.8 | 7.4 | 7.4 | 8.3 | 11.6 | --- | --- | --- | --- |
| Colored..... | 19.1 | 17.1 | 14.4 | 15.1 | 14.4 | 14.0 | 13.0 | 13.2 | 12.9 | --- | --- | --- | --- | --- |
| Wisconsin..... | 11.8 | 11.2 | 11.1 | 10.6 | 10.0 | --- | 8.9 | 9.2 | --- | --- | --- | --- | --- | --- |

INFANT MORTALITY, PER 1,000 LIVE BIRTHS

| | | | | | | | | | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Alabama..... | 92 | 86 | 69 | 78 | 73 | 70 | 60 | 61 | 67 | 69 | 59 | 69 | --- | --- |
| White..... | 79 | 79 | 62 | 66 | 69 | 67 | 52 | 54 | 59 | 62 | 45 | 57 | --- | --- |
| Colored..... | 117 | 97 | 80 | 99 | 81 | 75 | 75 | 75 | 83 | 82 | 88 | 92 | --- | --- |
| California..... | 73 | 74 | 69 | 65 | 68 | 62 | 56 | 56 | 56 | 55 | --- | --- | --- | --- |
| Connecticut..... | 85 | 69 | 61 | 79 | 50 | 44 | 53 | 74 | 72 | 59 | 49 | 66 | 76 | --- |
| Georgia..... | --- | --- | --- | --- | --- | --- | --- | --- | 73 | --- | --- | --- | --- | --- |
| Hawaii Territory..... | 120 | 129 | 117 | 109 | 108 | 89 | 158 | 81 | 83 | 87 | --- | --- | --- | --- |
| Indiana..... | 83 | 70 | 60 | 63 | 48 | 52 | 64 | 74 | 62 | 60 | 67 | 73 | 75 | --- |
| Iowa..... | 75 | 37 | 61 | 48 | --- | 44 | 43 | 40 | 45 | 42 | --- | --- | --- | --- |
| Kansas..... | 73 | 77 | 69 | 53 | 49 | 47 | 49 | 47 | --- | 58 | --- | --- | --- | --- |
| Louisiana..... | 75 | 76 | 86 | 91 | 95 | 69 | 64 | 62 | --- | 69 | --- | --- | --- | --- |
| Maryland..... | --- | --- | --- | --- | --- | 70 | 82 | 78 | 80 | --- | --- | --- | --- | --- |
| White..... | --- | --- | --- | --- | --- | 60 | 75 | 68 | 66 | --- | --- | --- | --- | --- |
| Colored..... | --- | --- | --- | --- | --- | 105 | 113 | 111 | 134 | --- | --- | --- | --- | --- |
| Michigan..... | 71 | 71 | 67 | 69 | 57 | 53 | 51 | 68 | 65 | 66 | --- | --- | --- | --- |
| Minnesota..... | 66 | 48 | 51 | 49 | 36 | 39 | 40 | 42 | 40 | 50 | --- | --- | --- | --- |
| Montana..... | --- | --- | --- | --- | --- | --- | --- | --- | 55 | --- | --- | --- | --- | --- |
| Nebraska..... | 81 | 71 | 50 | 48 | 48 | 36 | 37 | --- | --- | 45 | --- | --- | --- | --- |
| New Jersey..... | 70 | 71 | 70 | 59 | 43 | 46 | 56 | 57 | 52 | --- | --- | --- | --- | --- |
| New York ¹ | 81 | 77 | 70 | 64 | 52 | 45 | 47 | 58 | 64 | 62 | 58 | 69 | 71 | --- |
| Pennsylvania..... | 95 | 81 | 69 | 65 | 51 | 49 | 56 | 74 | 68 | 66 | 71 | 85 | 82 | --- |
| South Dakota..... | 99 | 66 | 63 | 63 | 41 | 50 | 39 | 43 | --- | 50 | --- | --- | --- | --- |
| Tennessee..... | 96 | 89 | 61 | 86 | 63 | 83 | 71 | 63 | 70 | --- | --- | --- | --- | --- |
| Virginia..... | 91 | 78 | 61 | 67 | 67 | 75 | 61 | 65 | 62 | --- | --- | --- | --- | --- |
| Wisconsin..... | 68 | 69 | 89 | 60 | 51 | 50 | 43 | 56 | 54 | 55 | --- | --- | --- | --- |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|--|------|------|------|-----|------|------|------|-------|------|------|--------------------------|------|------|--|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | | | | |
| | | | | | | | | | | 1928 | 1927 | 1926 | 1925 | |
| CONGENITAL MALFORMATIONS AND DISEASES OF EARLY INFANCY (159-163), PER 1,000 LIVE BIRTHS | | | | | | | | | | | | | | |
| Alabama..... | 27 | 31 | 27 | 34 | 29 | 27 | 30 | 31 | 21 | 29 | 25 | 28 | | |
| White..... | 28 | 32 | 29 | 34 | 34 | 30 | 30 | 29 | 33 | 29 | 22 | 27 | | |
| Colored..... | 26 | 28 | 24 | 34 | 20 | 21 | 31 | 35 | 29 | 28 | 31 | 31 | | |
| California..... | 33 | 31 | 33 | 32 | 30 | 27 | 26 | 30 | 29 | | | | | |
| Iowa..... | 34 | 36 | 35 | 31 | | 30 | 30 | 27 | 28 | 26 | | | | |
| Kansas..... | 32 | 26 | 39 | 33 | 36 | 31 | 30 | 30 | 30 | 33 | | | | |
| Louisiana..... | 21 | 29 | 31 | 32 | 34 | 28 | 30 | 28 | | 30 | | | | |
| Maryland..... | | | | | | 36 | 34 | 35 | 38 | | | | | |
| White..... | | | | | | 36 | 37 | 31 | 36 | | | | | |
| Colored..... | | | | | | 36 | 27 | 49 | 46 | | | | | |
| Michigan..... | 37 | 34 | 35 | 38 | 33 | 36 | 33 | 33 | 36 | 24 | | | | |
| Minnesota..... | 35 | 30 | 33 | 32 | 26 | 28 | 29 | 30 | 29 | 33 | | | | |
| Nebraska..... | 33 | 30 | 31 | 29 | 33 | 22 | 26 | | | 27 | | | | |
| New York ¹ | 43 | 41 | 38 | 41 | 35 | 45 | 35 | 33 | 38 | 38 | 34 | 39 | 38 | |
| Pennsylvania..... | 38 | 33 | 34 | 35 | 32 | 30 | 29 | 32 | 33 | 33 | 34 | | | |
| South Dakota..... | 43 | 29 | 32 | 29 | 21 | 35 | 16 | 26 | | 34 | | | | |
| Tennessee..... | 28 | 27 | 20 | 26 | 28 | 29 | 25 | 25 | 26 | | | | | |

TYPHOID FEVER (1)

| | | | | | | | | | | | | | |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama..... | 1.4 | 2.2 | 5.7 | 5.5 | 11.4 | 12.4 | 17.4 | 11.3 | 6.9 | 13.8 | 15.5 | 25.5 | 16.2 |
| California..... | 2.6 | 2.1 | 1.6 | 1.6 | 1.9 | 3.1 | 2.6 | 3.5 | | 4.8 | | | |
| Connecticut..... | | | | 1.4 | 1.5 | 1.4 | 1.4 | 0.7 | 1.4 | | 3.7 | .8 | 3.1 |
| Georgia..... | 2.0 | 2.6 | 5.3 | 7.4 | 12.2 | 20.2 | 19.9 | | 14.3 | | | | |
| Hawaii Territory..... | 3.7 | 13.5 | 3.5 | 3.4 | 3.5 | 6.6 | | 6.8 | 3.3 | 3.4 | 7.2 | | |
| Illinois..... | .9 | .5 | .9 | .5 | 1.6 | 2.2 | 1.9 | 2.5 | 2.2 | 3.8 | 3.7 | 7.0 | 6.8 |
| Indiana..... | .4 | .4 | 3.4 | 1.5 | 2.3 | 7.0 | 5.6 | 5.0 | 7.3 | 9.3 | 12.0 | 16.6 | |
| Iowa..... | 1.1 | .5 | 2.6 | 1.0 | | 9.7 | 3.4 | 2.5 | 2.4 | 1.0 | | | |
| Kansas..... | 1.4 | 1.9 | 1.3 | 1.3 | 5.3 | 3.2 | 7.1 | 2.0 | | 6.6 | | | |
| Kentucky..... | 5.1 | 3.7 | | | | | | | | | | | |
| Louisiana..... | 4.0 | 3.6 | 11.2 | 14.5 | 10.0 | 17.5 | 16.9 | 18.1 | | 25.0 | | | |
| Maryland..... | | | | | | 5.1 | 8.0 | 7.5 | 5.8 | | | | |
| Michigan..... | .9 | .3 | 1.9 | 2.1 | 1.9 | 1.5 | 2.8 | 3.5 | 2.8 | 2.8 | | | |
| Minnesota..... | .4 | | .5 | .4 | 1.3 | 2.6 | 1.3 | 1.8 | .4 | .4 | | | |
| Mississippi..... | 2.9 | 6.6 | 4.1 | 7.2 | 15.6 | 19.7 | 19.1 | 15.6 | | 15.6 | | | |
| Montana..... | | | | | | | | 17.7 | | | | | |
| Nebraska..... | .9 | .8 | 0 | 2.5 | .9 | 1.7 | 2.5 | | | 1.7 | | | |
| New Jersey..... | 1.0 | .3 | .3 | 1.9 | .3 | 1.9 | 1.8 | 2.2 | 2.8 | 2.5 | | | |
| New York ¹ | .9 | .4 | .6 | .6 | 2.1 | 2.3 | 2.1 | 3.2 | 2.5 | 2.5 | 4.9 | 2.8 | 6.8 |
| North Carolina..... | 1.8 | 2.4 | 2.1 | 3.2 | | | | | | | | | |
| Pennsylvania..... | 2.0 | .8 | .4 | 1.8 | 2.3 | 2.5 | 2.5 | 3.3 | 2.3 | 3.9 | 4.2 | 7.1 | 11.2 |
| South Carolina..... | 9.1 | 3.2 | 3.9 | 10.1 | 22.8 | 25.3 | 27.8 | 20.2 | | 28.1 | 46.2 | | |
| South Dakota..... | 3.7 | | | | 3.5 | 1.7 | 3.3 | 12.1 | | 8.6 | | | |
| Tennessee..... | 2.1 | 2.8 | 2.9 | 5.2 | 7.3 | 19.3 | 31.1 | 25.3 | | 16.5 | 18.4 | | |
| Virginia..... | .5 | .9 | .9 | 5.9 | 3.8 | 7.8 | 5.9 | 4.3 | 7.3 | | | | |
| Wisconsin..... | 1.3 | 2.0 | 1.2 | .4 | .8 | .8 | 2.4 | 2.1 | 2.0 | .8 | | | |

MEASLES (7)

| | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|-----|-----|-----|-----|------|-----|-----|
| Alabama..... | 3.4 | 3.9 | 5.7 | 3.2 | 2.8 | 1.4 | 0.5 | 0.5 | 0.5 | 1.8 | 2.8 | 1.4 | |
| California..... | .6 | 1.3 | | .5 | | .8 | .5 | | | | | | |
| Connecticut..... | 4.8 | 7.2 | 7.4 | 6.5 | 3.7 | .7 | | .7 | | | | | 0.8 |
| Georgia..... | 2.9 | 1.5 | 3.0 | 2.2 | | | .4 | | | | | | |
| Hawaii Territory..... | 3.7 | 3.4 | | 16.9 | 17.4 | 13.2 | 3.3 | | | 3.4 | 14.5 | | |
| Illinois..... | 3.9 | 6.9 | 10.1 | 9.7 | 6.9 | 2.1 | .8 | .2 | .2 | .5 | .3 | .3 | 1.1 |
| Indiana..... | 4.9 | 10.4 | 13.4 | 7.0 | 5.0 | .4 | .4 | | 1.0 | | .4 | 1.1 | |
| Iowa..... | .5 | 1.9 | 2.5 | 1.9 | | .5 | | 1.0 | 1.5 | | | | |
| Kansas..... | .7 | 3.8 | 5.3 | 7.1 | 7.3 | 1.3 | 1.3 | 1.3 | | | | | |
| Kentucky..... | 4.1 | 3.7 | | | | | | | | | | | |
| Louisiana..... | 5.3 | 6.0 | 4.4 | 4.2 | 0 | 2.4 | 0 | 4.4 | | 0 | | | |
| Maryland..... | | | | | | | .7 | 1.5 | | | | | |
| Michigan..... | 1.1 | 5.1 | 7.7 | 9.2 | 5.0 | 2.3 | .3 | | .8 | 1.0 | | | |
| Minnesota..... | 2.6 | 5.2 | 5.8 | 4.3 | 4.9 | 1.3 | | .9 | .4 | .4 | | | |
| Mississippi..... | 12.4 | 18.4 | 7.5 | 5.3 | 2.0 | 2.0 | .7 | 0 | | 1.4 | | | |
| Nebraska..... | 1.9 | 4.2 | 0 | 4.2 | 7.8 | 1.7 | 1.7 | 0 | | | | | |
| New Jersey..... | 2.4 | 1.8 | 2.2 | .6 | 1.0 | .3 | .3 | 0 | 0 | .6 | | | |
| New York ¹ | 4.4 | 5.0 | 3.6 | 4.1 | 2.1 | 1.0 | 1.4 | .6 | .6 | .6 | | .4 | |
| North Carolina..... | 2.7 | .4 | .8 | | | | | | | | | | |
| Pennsylvania..... | 7.0 | 6.5 | 6.0 | 5.9 | 3.8 | 1.8 | 1.0 | .7 | .7 | .9 | .7 | .5 | .5 |
| South Carolina..... | | | | .6 | | | | | | | .7 | | |
| South Dakota..... | | 10.0 | 6.9 | 1.7 | 1.7 | 3.3 | | | | | | | |
| Tennessee..... | | .9 | 1.0 | .5 | .5 | 1.5 | | .5 | .9 | | | | |
| Virginia..... | 1.0 | 3.2 | 2.4 | 3.7 | .9 | .5 | .9 | | | | | | |
| Wisconsin..... | 2.2 | 2.4 | 7.0 | 6.0 | 4.5 | 2.0 | | .8 | 1.4 | .8 | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | Corresponding month for— | | | |
|-----------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|-------|-------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | 1928 | 1927 | 1926 | 1925 |
| | SCARLET FEVER (8) | | | | | | | | | | | | |
| Alabama..... | 1.4 | 1.7 | ----- | ----- | 0.9 | 1.4 | 0.9 | 0.5 | 0.5 | 1.4 | ----- | ----- | ----- |
| California..... | 2.6 | 2.6 | 3.7 | 4.4 | 2.9 | 8 | 5 | .8 | ----- | 1.5 | ----- | ----- | ----- |
| Connecticut..... | 2.9 | 2.9 | .7 | .7 | .7 | 1.4 | 1.4 | ----- | .7 | ----- | 1.5 | 1.5 | 0.8 |
| Georgia..... | 2.0 | ----- | 1.1 | .7 | ----- | ----- | 1.5 | ----- | 1.5 | ----- | ----- | ----- | ----- |
| Illinois..... | 5.6 | 5.6 | 6.2 | 5.3 | 3.7 | 3.8 | 5 | .8 | 3.0 | 2.1 | 1.3 | 1.8 | 1.6 |
| Indiana..... | 5.7 | 4.4 | 3.8 | 4.4 | 3.4 | 1.5 | 1.9 | .8 | 1.5 | 2.2 | 3.0 | 1.5 | ----- |
| Iowa..... | 4.3 | 2.9 | 3.5 | 1.9 | ----- | 1.5 | 1.5 | 1.0 | 1.9 | 1.5 | ----- | ----- | ----- |
| Kansas..... | 5.0 | 6.4 | 6.0 | 2.6 | 2.7 | ----- | ----- | ----- | ----- | 1.3 | ----- | ----- | ----- |
| Kentucky..... | 6.1 | 5.1 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Louisiana..... | 0 | 1.2 | .8 | 1.8 | 0 | 0 | .6 | 0 | ----- | 0 | ----- | ----- | ----- |
| Maryland..... | ----- | ----- | ----- | ----- | 1.5 | 1.5 | .8 | .8 | 2.2 | ----- | ----- | ----- | ----- |
| Michigan..... | 5.4 | 5.4 | 7.7 | 3.3 | 2.7 | 1.5 | .5 | .8 | 1.5 | 1.0 | ----- | ----- | ----- |
| Minnesota..... | 2.2 | 3.9 | 2.7 | 2.2 | ----- | 1.3 | 1.7 | 1.3 | 1.3 | 2.6 | ----- | ----- | ----- |
| Montana..... | ----- | ----- | ----- | ----- | ----- | ----- | 0 | 4.4 | ----- | ----- | ----- | ----- | ----- |
| Nebraska..... | 8.3 | 5.9 | 9.5 | 6.7 | 1.7 | 1.7 | 0 | ----- | ----- | 1.8 | ----- | ----- | ----- |
| New Jersey..... | 1.4 | 1.2 | 2.2 | 1.5 | 1.6 | .3 | ----- | 1.0 | .6 | .9 | ----- | ----- | ----- |
| New York ¹ | 3.7 | 3.1 | 2.6 | 2.3 | 1.1 | .8 | 1.4 | 1.1 | 1.0 | .4 | 1.1 | 1.7 | 1.9 |
| North Carolina..... | 1.8 | 1.2 | 2.9 | 2.4 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Pennsylvania..... | 3.3 | 3.0 | 3.3 | 3.1 | 2.1 | 1.4 | 1.0 | 1.2 | 1.1 | 2.8 | .7 | 1.4 | 1.7 |
| South Carolina..... | ----- | ----- | ----- | 1.3 | .7 | 1.3 | ----- | .7 | ----- | ----- | .7 | ----- | ----- |
| South Dakota..... | 5.6 | 6.0 | ----- | 6.7 | 5.2 | ----- | 1.7 | ----- | ----- | ----- | ----- | ----- | ----- |
| Tennessee..... | 4.7 | 3.3 | 2.9 | 2.8 | ----- | .9 | .5 | 1.5 | 2.8 | 2.8 | ----- | ----- | ----- |
| Virginia..... | 1.0 | 1.8 | ----- | .5 | .5 | ----- | .5 | .5 | 3.7 | ----- | ----- | ----- | ----- |
| Wisconsin..... | 4.4 | 3.6 | 5.4 | .4 | 2.9 | 2.0 | 1.2 | .8 | 2.4 | 1.6 | ----- | ----- | ----- |

WHOOPING COUGH (9)

| | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alabama..... | 10.1 | 7.0 | 10.4 | 10.1 | 10.4 | 17.4 | 11.9 | 6.6 | 4.6 | 4.1 | 6.1 | 8.0 | 3.6 |
| California..... | 4.3 | 7.2 | 8.3 | 9.0 | 10.2 | 7.8 | 6.7 | 3.5 | ----- | 8.8 | ----- | ----- | ----- |
| Connecticut..... | 4.0 | 2.9 | .7 | 2.2 | 3.0 | 2.2 | 2.2 | 1.5 | 0.7 | 5.8 | .7 | .8 | 7.7 |
| Georgia..... | 3.7 | 5.5 | 4.9 | 4.4 | 13.7 | 15.8 | 13.6 | ----- | 9.6 | ----- | ----- | ----- | ----- |
| Hawaii Territory..... | 37.4 | 40.5 | 83.7 | 67.5 | 38.3 | 16.4 | 6.6 | 13.6 | 9.9 | 6.7 | ----- | ----- | ----- |
| Illinois..... | 2.3 | 2.6 | 3.5 | 4.3 | 3.4 | 3.2 | 5.9 | 5.1 | 2.4 | 1.4 | 2.5 | 2.2 | 3.5 |
| Indiana..... | 6.2 | 6.3 | 6.5 | 7.0 | 6.5 | 4.8 | 6.7 | 4.2 | 4.4 | 1.1 | 3.4 | 8.3 | ----- |
| Iowa..... | 3.2 | 6.3 | 8.0 | 4.8 | ----- | 4.8 | 4.8 | 5.0 | ----- | 1.9 | ----- | ----- | ----- |
| Kansas..... | 7.8 | 5.8 | 4.6 | 2.6 | 2.7 | 4.5 | 3.8 | 2.0 | ----- | 4.0 | ----- | ----- | ----- |
| Kentucky..... | 13.8 | 8.8 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Louisiana..... | 6.7 | 6.0 | 7.5 | 6.0 | 6.9 | 11.5 | 4.8 | 4.4 | ----- | 7.5 | ----- | ----- | ----- |
| Maryland..... | ----- | ----- | ----- | ----- | 7.3 | 11.7 | 5.3 | 6.6 | 6.6 | ----- | ----- | ----- | ----- |
| Michigan..... | 7.7 | 4.6 | 7.2 | 8.2 | 5.6 | 3.3 | 7.4 | 6.6 | 4.6 | 3.3 | ----- | ----- | ----- |
| Minnesota..... | 6.1 | 4.3 | 4.9 | 5.2 | .9 | 4.8 | 3.0 | 4.0 | 2.6 | 2.6 | ----- | ----- | ----- |
| Mississippi..... | 10.2 | 11.2 | 14.3 | 10.5 | 17.7 | 12.5 | 11.8 | 8.2 | ----- | 2.7 | ----- | ----- | ----- |
| Montana..... | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 4.4 | ----- | ----- | ----- | ----- | ----- |
| Nebraska..... | 1.9 | 5.0 | 1.7 | 6.7 | 3.5 | 5.0 | 3.3 | ----- | ----- | 3.3 | ----- | ----- | ----- |
| New Jersey..... | 6.8 | 6.2 | 5.7 | 4.0 | 2.2 | 2.8 | 4.9 | 4.1 | 4.0 | 4.0 | ----- | ----- | ----- |
| New York ¹ | 5.0 | 5.4 | 4.3 | 3.3 | 2.1 | 1.3 | 4.1 | 2.6 | 3.7 | 2.3 | 2.4 | 3.3 | 3.9 |
| North Carolina..... | 8.4 | 5.2 | 7.5 | 9.6 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Pennsylvania..... | 8.4 | 5.2 | 4.8 | 4.3 | 4.3 | 5.0 | 6.0 | 5.0 | 3.9 | 4.9 | 2.1 | 6.6 | 5.1 |
| South Carolina..... | 9.1 | 7.6 | 13.1 | 17.1 | 22.8 | 18.3 | 15.8 | 9.1 | ----- | 3.3 | 16.5 | ----- | ----- |
| South Dakota..... | 3.7 | 3.3 | 1.7 | 11.7 | 6.9 | 1.7 | 1.7 | 1.7 | ----- | 6.9 | ----- | ----- | ----- |
| Tennessee..... | 6.8 | 4.2 | 6.3 | 7.5 | 6.3 | 13.7 | 10.0 | 7.8 | 5.6 | 3.3 | ----- | ----- | ----- |
| Virginia..... | 9.1 | 6.9 | 6.1 | 8.2 | 9.9 | 12.8 | 16.9 | 9.4 | 7.3 | ----- | ----- | ----- | ----- |
| Wisconsin..... | 3.5 | 3.2 | 6.6 | 5.6 | 4.9 | 4.4 | 4.0 | 2.1 | 1.6 | 2.8 | ----- | ----- | ----- |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued.

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|-----------------------------|------|------|------|------|------|------|------|-------|------|--|--------------------------|------|------|------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | 1928 | 1927 | 1926 | 1925 |
| DIPHTHERIA (10) | | | | | | | | | | | | | | |
| Alabama..... | 3.9 | 4.3 | 2.8 | 2.3 | 1.4 | 2.8 | 7.3 | 16.6 | 23.3 | | 17.4 | 23.9 | 15.1 | 12.6 |
| California..... | 3.7 | 1.8 | 3.7 | 3.4 | 4.3 | 1.8 | 3.1 | 2.9 | | | 3.5 | | | |
| Connecticut..... | 4.0 | 2.9 | 3.7 | 4.3 | 3.7 | 2.9 | 1.4 | 4.4 | 7.2 | | 5.1 | 4.5 | 4.5 | 8.5 |
| Georgia..... | 2.4 | 1.8 | 1.9 | 2.2 | 20.9 | 11.4 | 5.2 | | | | 11.8 | | | |
| Hawaii Territory..... | 11.2 | 13.5 | 20.9 | 6.7 | 10.5 | 6.6 | 3.3 | 13.6 | 6.6 | | 27.0 | 29.0 | | |
| Illinois..... | 8.8 | 10.4 | 11.6 | 12.6 | 11.1 | 9.1 | 7.0 | 4.6 | 11.5 | | 8.9 | 8.1 | 8.4 | 7.3 |
| Indiana..... | 5.7 | 3.7 | 5.0 | 3.3 | 1.5 | 2.2 | 3.0 | 4.2 | 9.7 | | 7.8 | 12.3 | 10.6 | |
| Iowa..... | | .5 | 2.0 | 1.5 | | 2.4 | 1.0 | 1.5 | 1.5 | | 4.4 | | | |
| Kansas..... | 2.8 | 4.5 | 4.6 | 1.3 | 1.3 | .6 | | | | | 2.0 | | | |
| Kentucky..... | 10.2 | 5.1 | | | | | | | | | | | | |
| Louisiana..... | 8.7 | 3.0 | 2.5 | 5.4 | 3.1 | 3.6 | 6.0 | 5.0 | | | 4.4 | | | |
| Maryland..... | | | | | | 1.5 | 5.1 | 1.5 | 3.6 | | | | | |
| Michigan..... | 8.5 | 12.6 | 10.3 | 11.3 | 13.0 | 9.8 | 6.9 | 8.5 | 13.3 | | 8.7 | | | |
| Minnesota..... | 2.2 | 3.0 | 2.2 | 2.6 | .9 | 2.6 | 1.7 | 1.8 | 1.3 | | 1.7 | | | |
| Mississippi..... | 5.8 | 2.0 | 2.0 | | 1.4 | 1.3 | 5.3 | 6.8 | | | 9.5 | | | |
| Montana..... | | | | | | | | 8.9 | | | | | | |
| Nebraska..... | 5.6 | 2.5 | 4.3 | .8 | 5.2 | .8 | 0 | | | | 3.3 | | | |
| New Jersey..... | 13.0 | 10.2 | 10.5 | 10.5 | 9.9 | 8.9 | 5.5 | 6.7 | 10.8 | | 7.1 | | | |
| New York ¹ | 3.4 | 3.7 | 2.4 | 3.1 | 4.1 | 2.1 | 2.7 | 1.7 | 4.1 | | 2.3 | 3.6 | 4.4 | 5.6 |
| North Carolina..... | 10.2 | 4.8 | 4.1 | 1.6 | | | | | | | | | | |
| Pennsylvania..... | 7.1 | 9.2 | 6.8 | 5.7 | 5.7 | 4.4 | 2.9 | 6.0 | 7.4 | | 6.0 | 9.5 | 8.9 | 10.5 |
| South Carolina..... | 4.9 | 6.9 | 2.0 | 4.4 | 3.3 | 1.9 | 10.1 | 10.4 | | | 11.1 | 11.9 | | |
| South Dakota..... | 1.9 | | 3.5 | 3.3 | | | | 1.7 | | | | | | |
| Tennessee..... | 4.7 | 4.7 | 2.9 | 3.3 | 2.9 | 1.4 | 6.1 | 8.8 | 20.7 | | 17.4 | | | |
| Virginia..... | 4.6 | 7.8 | 1.9 | 1.4 | 1.4 | 2.7 | 3.2 | 10.4 | 16.9 | | 10.1 | | | |
| Wisconsin..... | 3.1 | 2.0 | .8 | 4.4 | 2.5 | 1.6 | 2.0 | 2.1 | 3.6 | | 2.8 | | | |

INFLUENZA (11)

| | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| Alabama..... | 236.7 | 117.9 | 58.2 | 43.6 | 19.5 | 9.6 | 9.2 | 9.9 | 10.1 | 25.2 | 14.5 | 12.8 | 8.1 |
| White..... | 241.3 | 110.0 | 47.1 | 32.2 | 18.1 | 8.4 | 6.3 | 10.1 | 9.8 | 21.0 | 16.0 | 9.6 | |
| Colored..... | 261.0 | 150.4 | 64.0 | 77.8 | 21.8 | 11.9 | 14.5 | 9.5 | 10.5 | 33.0 | 11.8 | 18.4 | |
| California..... | 47.2 | 40.1 | 23.5 | 13.4 | 7.5 | 5.2 | 4.1 | 5.9 | | 7.7 | | | |
| Connecticut..... | 133.5 | 40.9 | 21.5 | 9.3 | 3.7 | 2.9 | 2.2 | 5.2 | | 12.2 | 4.5 | 12.8 | 10.0 |
| Georgia..... | 164.0 | 77.2 | 74.5 | 22.4 | 20.9 | 11.4 | 5.2 | | 19.5 | | | | |
| Hawaii Territory..... | 20.9 | 23.6 | 38.3 | 27.0 | 20.9 | 19.7 | 13.2 | 6.8 | 3.3 | 37.1 | 10.9 | | |
| Illinois..... | 71.6 | 47.8 | 20.5 | 15.0 | 7.1 | 3.5 | 3.3 | 4.8 | 8.4 | | | | |
| Indiana..... | 131.3 | 96.0 | 36.4 | 21.1 | 13.0 | 11.1 | 8.5 | 10.3 | 24.7 | 16.3 | 12.7 | 19.2 | 17.1 |
| Iowa..... | 101.5 | 57.7 | 28.1 | 28.6 | | | 9.7 | 5.3 | 8.0 | 19.9 | | | |
| Kansas..... | 120.8 | 85.3 | 46.4 | 29.5 | 21.2 | 12.2 | 11.5 | 9.9 | | 9.9 | | | |
| Kentucky..... | 281.9 | 98.7 | | | | | | | | | | | |
| Louisiana..... | 179.8 | 95.4 | 41.8 | 19.9 | 11.8 | 11.5 | 11.5 | 15.6 | | 21.8 | | | |
| White..... | 140.4 | 76.5 | 30.8 | 14.9 | 9.6 | 8.4 | 9.3 | 10.6 | | 21.2 | | | |
| Colored..... | 252.2 | 130.2 | 61.9 | 29.1 | 15.9 | 17.1 | 15.4 | 24.8 | | 23.0 | | | |
| Maryland..... | | | | | | | | | | | | | |
| White..... | | | | | | | | | | | | | |
| Colored..... | | | | | | 9.1 | | 4.5 | 7.8 | | | | |
| Michigan..... | 76.9 | 39.5 | 24.1 | 21.8 | 10.2 | 6.7 | 5.1 | 6.4 | 11.8 | | | | |
| Minnesota..... | 55.4 | 38.9 | 19.2 | 17.7 | 6.7 | 4.3 | 5.2 | 6.3 | 6.9 | 16.4 | | | |
| Mississippi..... | 172.5 | 118.3 | 42.8 | 27.0 | 17.7 | 11.2 | 7.9 | 6.8 | | 11.5 | | | |
| White..... | 154.2 | 102.0 | 34.2 | 20.7 | 11.4 | 17.6 | 8.3 | 5.7 | | 10.0 | | | |
| Colored..... | 189.6 | 133.5 | 50.8 | 32.7 | 23.4 | 15.8 | 7.5 | 7.8 | | 13.0 | | | |
| Montana..... | | | | | | | | 11.1 | | | | | |
| Nebraska..... | 108.3 | 59.4 | 32.8 | 26.8 | 23.3 | 5.9 | 5.0 | | | 11.7 | | | |
| New Jersey..... | 59.4 | 25.0 | 15.0 | 10.2 | 2.2 | 2.2 | 1.8 | 1.6 | 4.9 | 7.7 | 5.0 | 5.4 | 5.2 |
| New York ¹ | 98.2 | 36.6 | 23.1 | 13.0 | 3.3 | 2.9 | 2.0 | 3.2 | 8.1 | 8.8 | 10.7 | 7.4 | 11.2 |
| North Carolina..... | 281.3 | 116.2 | 59.2 | 37.3 | | | | | | | | | |
| Pennsylvania..... | 95.6 | 55.0 | 26.9 | 20.6 | 10.0 | 6.7 | 4.9 | 9.7 | 16.7 | 14.4 | 11.8 | 11.7 | 17.4 |
| South Carolina..... | 172.7 | 98.5 | 51.6 | 29.7 | 17.6 | 13.9 | 10.7 | 9.1 | | 11.1 | 4.6 | | |
| South Dakota..... | 124.1 | 45.2 | 41.5 | 38.5 | 15.6 | 10.0 | 11.7 | 8.6 | | 10.4 | | | |
| Tennessee..... | 252.2 | 153.9 | 71.0 | 33.4 | 18.0 | 13.2 | 10.4 | 5.8 | | 19.8 | | | |
| White..... | 238.2 | 141.4 | 61.6 | 27.8 | 14.7 | 11.9 | 9.7 | 5.9 | | 16.5 | | | |
| Colored..... | 319.8 | 214.6 | 116.6 | 60.5 | 34.1 | 19.2 | 13.7 | 5.7 | | 35.7 | | | |
| Virginia..... | 192.9 | 88.2 | 48.7 | 19.2 | 9.9 | 5.0 | 5.9 | 9.0 | 14.2 | | | | |
| White..... | 156.7 | 63.2 | 36.6 | 11.4 | 5.9 | 1.9 | 7.0 | 3.9 | 10.1 | | | | |
| Colored..... | 287.5 | 153.8 | 80.3 | 39.7 | 20.6 | 13.2 | 3.3 | 22.2 | 24.8 | | | | |
| Wisconsin..... | 75.9 | 36.3 | 27.2 | 20.7 | | 9.9 | 7.2 | 6.0 | 6.6 | 10.4 | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | Corresponding month for— | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|-------|-------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | 1928 | 1927 | 1926 | 1925 |
| POLIOMYELITIS (22) | | | | | | | | | | | | | |
| Alabama..... | 2.4 | 0.4 | 0.9 | ..... | 2.8 | 0.5 | 1.4 | 0.5 | 0.5 | 0.9 | 1.4 | 1.4 | ..... |
| California..... | .9 | .8 | .8 | 2.1 | .8 | .8 | 1.8 | 1.9 | ..... | 1.6 | ..... | ..... | ..... |
| Connecticut..... | ..... | ..... | ..... | ..... | 1.5 | .7 | ..... | ..... | ..... | 1.5 | .7 | .8 | 0.8 |
| Hawaii Territory..... | ..... | ..... | ..... | 3.4 | ..... | ..... | 3.3 | 3.4 | ..... | 3.4 | ..... | ..... | ..... |
| Illinois..... | ..... | .3 | ..... | .3 | .2 | .2 | ..... | .3 | .3 | ..... | ..... | ..... | ..... |
| Indiana..... | ..... | .4 | ..... | ..... | .4 | ..... | ..... | .4 | ..... | ..... | ..... | ..... | ..... |
| Iowa..... | ..... | 1.5 | .5 | ..... | ..... | ..... | 1.0 | 1.5 | 1.5 | ..... | ..... | ..... | ..... |
| Kansas..... | ..... | .5 | ..... | ..... | 1.3 | .5 | .6 | 1.3 | ..... | .7 | ..... | ..... | ..... |
| Kentucky..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Louisiana..... | .7 | 1.2 | 1.3 | .6 | ..... | .6 | .6 | ..... | ..... | 1.2 | ..... | ..... | ..... |
| Maryland..... | ..... | ..... | ..... | ..... | ..... | ..... | .7 | .8 | ..... | ..... | ..... | ..... | ..... |
| Michigan..... | .3 | .8 | .5 | .5 | .8 | 1.0 | 1.0 | 2.1 | 2.1 | 1.3 | ..... | ..... | ..... |
| Minnesota..... | .9 | ..... | .4 | .9 | ..... | ..... | .4 | .9 | .4 | 3.9 | ..... | ..... | ..... |
| Mississippi..... | 1.5 | .7 | 1.4 | ..... | 2.0 | 2.0 | ..... | ..... | ..... | 2.0 | ..... | ..... | ..... |
| Nebraska..... | ..... | .8 | ..... | ..... | ..... | .8 | ..... | ..... | ..... | 1.7 | ..... | ..... | ..... |
| New Jersey..... | .3 | .6 | ..... | .3 | .6 | .6 | 1.3 | .3 | 1.5 | 1.8 | ..... | ..... | ..... |
| New York ¹ | .7 | .2 | .2 | .4 | .2 | 1.4 | 3.3 | 4.1 | 3.7 | 3.6 | 2.8 | 3.7 | 2.2 |
| North Carolina..... | .4 | 1.6 | 1.2 | .8 | ..... | ..... | .5 | .6 | ..... | .9 | 3.1 | 1.0 | 1.3 |
| Pennsylvania..... | .6 | .4 | ..... | .5 | .7 | .5 | .7 | .6 | 1.0 | 2.0 | ..... | ..... | ..... |
| South Carolina..... | .7 | .6 | ..... | 1.3 | ..... | .6 | .6 | .7 | ..... | ..... | ..... | ..... | ..... |
| South Dakota..... | 3.7 | ..... | ..... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tennessee..... | .5 | .9 | .5 | 1.9 | 1.5 | 1.9 | 1.4 | 1.0 | 2.4 | 1.9 | ..... | ..... | ..... |
| Virginia..... | ..... | 1.4 | .9 | ..... | ..... | .9 | 4.6 | 1.4 | 2.3 | ..... | ..... | ..... | ..... |
| Wisconsin..... | .4 | ..... | ..... | .8 | 1.2 | .4 | ..... | 1.2 | .4 | ..... | ..... | ..... | ..... |

LETHARGIC ENCEPHALITIS (23)

| | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alabama..... | 0.5 | 2.3 | 1.9 | 0.5 | 0.5 | 0.9 | 0.5 | 0.9 | 0.9 | ..... | ..... | ..... | ..... |
| California..... | 1.4 | 1.0 | 2.4 | 1.6 | 1.3 | 1.3 | 1.3 | 1.6 | ..... | 1.6 | ..... | ..... | ..... |
| Connecticut..... | 3.2 | 2.2 | ..... | 1.4 | .7 | ..... | .7 | 2.2 | 1.4 | .7 | ..... | ..... | ..... |
| Hawaii Territory..... | ..... | ..... | ..... | ..... | ..... | 3.3 | 3.3 | 3.4 | ..... | ..... | ..... | ..... | ..... |
| Illinois..... | 2.1 | 1.1 | 1.4 | 1.1 | .7 | .3 | .2 | .2 | .2 | ..... | ..... | ..... | ..... |
| Indiana..... | .8 | 1.1 | 1.5 | .7 | 1.1 | .7 | .4 | .8 | ..... | ..... | ..... | ..... | ..... |
| Iowa..... | 1.0 | 2.4 | 1.0 | 1.5 | ..... | .5 | ..... | 1.5 | 1.9 | 1.0 | ..... | ..... | ..... |
| Kansas..... | ..... | .6 | .7 | 2.6 | ..... | 1.3 | .6 | ..... | ..... | .7 | ..... | ..... | ..... |
| Kentucky..... | .5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Louisiana..... | 0 | 1.2 | 0 | 1.8 | 0 | 0 | 0 | 0 | ..... | 1.2 | ..... | ..... | ..... |
| Maryland..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.4 | 2.2 | ..... | ..... | ..... | ..... |
| Michigan..... | 1.1 | 1.0 | 1.6 | 2.3 | 2.1 | .5 | .3 | 1.1 | 1.0 | 2.1 | ..... | ..... | ..... |
| Minnesota..... | 2.2 | 2.0 | 1.8 | 1.7 | 4.0 | 2.6 | .9 | .9 | 1.7 | 2.2 | ..... | ..... | ..... |
| Mississippi..... | .7 | .7 | 1.4 | .7 | 0 | 0 | 1.3 | ..... | ..... | 1.4 | ..... | ..... | ..... |
| Montana..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.2 | ..... | ..... | ..... | ..... | ..... |
| Nebraska..... | 2.8 | 1.7 | 0 | 0 | 1.7 | 0 | .8 | ..... | ..... | 1.7 | ..... | ..... | ..... |
| New Jersey..... | 1.7 | 1.5 | 1.0 | 1.2 | 1.9 | .6 | 1.2 | .3 | 2.5 | 1.8 | ..... | ..... | ..... |
| New York ¹ | .9 | 1.2 | .7 | .8 | 2.4 | .6 | 1.0 | .2 | .6 | ..... | ..... | ..... | ..... |
| North Carolina..... | 1.8 | .8 | .4 | .4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pennsylvania..... | 2.0 | 1.0 | 1.2 | 1.2 | .6 | 1.0 | .7 | .7 | .7 | .5 | .6 | 1.0 | 1.2 |
| South Carolina..... | 1.4 | 5.1 | 2.0 | 4.4 | 3.3 | ..... | 1.3 | 1.3 | ..... | 2.6 | 2.6 | ..... | ..... |
| South Dakota..... | ..... | ..... | 1.7 | ..... | 1.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tennessee..... | 1.0 | ..... | 1.5 | ..... | .5 | 1.9 | .9 | .6 | .9 | .5 | ..... | ..... | ..... |
| Virginia..... | .5 | 1.4 | 2.4 | .5 | .9 | ..... | 1.4 | .5 | .5 | ..... | ..... | ..... | ..... |
| Wisconsin..... | 2.2 | 2.0 | 1.6 | 2.8 | 2.5 | 2.8 | .4 | 1.2 | 1.2 | 2.0 | ..... | ..... | ..... |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|--|------|------|------|-----|------|------|------|-------|------|------|--------------------------|------|------|--|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | | | | |
| | | | | | | | | | | 1928 | 1927 | 1926 | 1925 | |

MENINGOCOCCUS MENINGITIS (24)

| | | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alabama | 3.9 | 1.5 | ----- | 0.5 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | ----- | ----- | ----- | ----- |
| California | 10.3 | 14.2 | 12.6 | 13.2 | 9.4 | 4.7 | 4.1 | 5.1 | ----- | 0.8 | ----- | ----- | ----- |
| Connecticut | 2.4 | 3.6 | 7 | 1.4 | ----- | ----- | 7 | ----- | ----- | 2.2 | 1.5 | 1.5 | 0.8 |
| Hawaii Territory | 18.7 | 70.9 | 38.3 | 50.6 | 27.9 | 19.7 | 3.3 | 6.8 | 16.4 | ----- | ----- | ----- | ----- |
| Illinois | 7.1 | 6.7 | 2.8 | 3.2 | 2.6 | 2.1 | 2.1 | .8 | 1.8 | 2.2 | 1.9 | .5 | .6 |
| Indiana | ----- | 1.1 | 1.9 | 3.0 | 1.9 | 1.1 | 7 | 1.1 | ----- | ----- | ----- | ----- | ----- |
| Iowa | 3.8 | 2.9 | 2.0 | 1.5 | ----- | 1.9 | 1.0 | ----- | .5 | ----- | ----- | ----- | ----- |
| Kansas | 5.0 | 3.8 | 2.7 | 3.2 | 2.0 | 3.2 | 1.3 | 2.0 | ----- | .7 | ----- | ----- | ----- |
| Louisiana | 4.7 | 4.2 | 5.6 | 1.8 | 1.9 | .6 | 1.8 | 0 | ----- | 0 | ----- | ----- | ----- |
| Maryland | ----- | ----- | ----- | ----- | ----- | ----- | ----- | .8 | 1.5 | ----- | ----- | ----- | ----- |
| Michigan | 12.5 | 29.8 | 37.9 | 41.8 | 27.8 | 19.2 | 11.0 | 7.7 | 7.4 | 4.1 | ----- | ----- | ----- |
| Minnesota | 2.6 | .4 | 2.2 | 1.7 | 1.3 | 3.5 | 1.7 | .4 | ----- | 1.3 | ----- | ----- | ----- |
| Mississippi | ----- | 7 | 7 | ----- | .7 | 1.3 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Montana | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 4.4 | ----- | ----- | ----- | ----- | ----- |
| Nebraska | 7.4 | 6.7 | 2.6 | 1.7 | 1.7 | .8 | 2.5 | ----- | ----- | 0 | ----- | ----- | ----- |
| New Jersey | 2.4 | 2.5 | 2.2 | 4.6 | 2.2 | 2.2 | 1.2 | 1.9 | 2.2 | 1.5 | ----- | ----- | ----- |
| New York ¹ | 1.8 | 1.0 | 2.1 | 1.4 | .6 | ----- | 1.0 | 2.1 | .2 | 1.7 | ----- | ----- | ----- |
| North Carolina | .4 | .4 | .4 | 1.2 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Pennsylvania | 2.8 | 3.1 | 2.2 | 3.4 | 1.2 | 1.6 | 2.4 | 2.1 | ----- | .5 | .5 | .3 | .8 |
| South Carolina | 2.8 | 3.2 | 3.9 | 2.5 | 2.0 | 1.9 | .6 | 3.9 | ----- | .7 | 2.0 | ----- | ----- |
| South Dakota | 3.7 | 10.0 | 1.7 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Tennessee | 1.0 | 3.9 | 3.4 | 1.9 | 1.5 | 2.8 | .5 | 1.5 | 1.4 | 2.4 | ----- | ----- | ----- |
| Virginia | 1.5 | 1.8 | 1.4 | 2.7 | .9 | 1.4 | ----- | .9 | ----- | ----- | ----- | ----- | ----- |
| Wisconsin | 6.6 | 10.0 | 2.9 | 3.6 | 4.5 | 1.2 | 2.4 | 1.6 | 1.6 | 3.6 | ----- | ----- | ----- |

TUBERCULOSIS, ALL FORMS (31-37)

| | | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alabama | 83.6 | 80.5 | 91.8 | 88.1 | 81.3 | 86.5 | 78.7 | 82.8 | 76.4 | 74.3 | 66.1 | 83.3 | 82.7 |
| White | 62.9 | 51.9 | 55.0 | 45.6 | 39.1 | 45.6 | 37.8 | 44.9 | 42.8 | 38.5 | ----- | 37.2 | 43.6 |
| Colored | 134.2 | 146.4 | 159.4 | 167.4 | 159.4 | 163.5 | 155.6 | 154.0 | 139.8 | 141.1 | 118.4 | 153.8 | ----- |
| California | 147.9 | 149.4 | 138.6 | 139.6 | 130.3 | 122.8 | 122.0 | 109.5 | ----- | 113.5 | ----- | ----- | ----- |
| Connecticut | 77.1 | 68.2 | 64.5 | 66.0 | 61.5 | 61.7 | 61.0 | 52.6 | 48.8 | 63.5 | 54.9 | 73.3 | 53.1 |
| Georgia | 60.6 | 66.9 | 74.5 | 72.4 | 85.9 | 68.7 | 59.2 | ----- | 56.2 | ----- | ----- | ----- | ----- |
| Hawaii Territory | 89.6 | 91.2 | 121.9 | 124.8 | 129.0 | 111.8 | 105.2 | 105.5 | 168.5 | 121.5 | 137.7 | ----- | ----- |
| Illinois | 84.3 | 95.2 | 96.4 | 70.7 | 78.9 | 68.3 | 64.3 | 54.1 | 59.1 | 62.7 | 70.7 | 69.7 | 64.8 |
| Indiana | 78.8 | 79.7 | 81.6 | 74.9 | 81.2 | 58.2 | 63.4 | 63.2 | 77.6 | 64.1 | 57.9 | 70.9 | 68.5 |
| Iowa | 38.7 | 35.4 | 40.6 | 37.3 | ----- | 35.9 | 36.4 | 33.6 | 24.7 | 24.7 | ----- | ----- | ----- |
| Kansas | 59.4 | 41.1 | 36.5 | 41.1 | 42.4 | 34.7 | 35.3 | 33.2 | ----- | 31.2 | ----- | ----- | ----- |
| Kentucky | 121.0 | 91.3 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Louisiana | 91.6 | 92.4 | 104.2 | 90.6 | 99.2 | 83.3 | 70.0 | 81.7 | ----- | 72.4 | ----- | ----- | ----- |
| White | 61.9 | 50.4 | 54.9 | 47.6 | 53.0 | 42.9 | 36.4 | 52.0 | ----- | 38.5 | ----- | ----- | ----- |
| Colored | 146.0 | 169.6 | 194.7 | 169.6 | 184.1 | 157.6 | 131.9 | 136.3 | ----- | 134.5 | ----- | ----- | ----- |
| Maryland | ----- | ----- | ----- | ----- | ----- | 99.8 | 92.5 | 76.8 | 91.8 | ----- | ----- | ----- | ----- |
| White | ----- | ----- | ----- | ----- | ----- | 67.6 | 70.2 | 55.6 | 68.5 | ----- | ----- | ----- | ----- |
| Colored | ----- | ----- | ----- | ----- | ----- | 268.8 | 209.6 | 188.3 | 214.2 | ----- | ----- | ----- | ----- |
| Michigan | 72.1 | 72.3 | 80.6 | 85.7 | 71.3 | 66.2 | 60.0 | 67.3 | 56.9 | 58.2 | ----- | ----- | ----- |
| Minnesota | 48.4 | 60.1 | 65.3 | 55.8 | 57.2 | 49.7 | 51.9 | 46.5 | 38.1 | 34.6 | ----- | ----- | ----- |
| Mississippi | 72.1 | 96.0 | 96.5 | 91.4 | 95.8 | 83.5 | 67.7 | 67.3 | ----- | 78.1 | ----- | ----- | ----- |
| White | 45.8 | 53.8 | 41.3 | 38.6 | 39.9 | 30.3 | 31.1 | 27.1 | ----- | 37.0 | ----- | ----- | ----- |
| Colored | 96.2 | 124.7 | 150.9 | 139.8 | 147.0 | 132.2 | 99.3 | 103.9 | ----- | 115.6 | ----- | ----- | ----- |
| Montana | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 44.3 | ----- | ----- | ----- | ----- | ----- |
| Nebraska | 38.9 | 27.6 | 42.3 | 36.0 | 25.9 | 29.3 | 27.6 | ----- | ----- | 28.4 | ----- | ----- | ----- |
| New Jersey | 84.3 | 84.7 | 84.7 | 76.1 | 70.1 | 75.5 | 72.4 | 65.9 | 69.6 | 73.6 | 70.7 | 66.2 | 68.4 |
| New York ¹ | 82.8 | 76.3 | 80.6 | 82.3 | 78.4 | 64.7 | 70.3 | 57.7 | 58.5 | 71.8 | 64.9 | 77.0 | 68.1 |
| North Carolina | 91.0 | 89.4 | 102.7 | 91.4 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Pennsylvania | 69.4 | 66.7 | 68.8 | 69.6 | 63.6 | 62.3 | 56.0 | 52.6 | 53.8 | 58.0 | 57.6 | 66.7 | 66.5 |
| South Carolina | 65.0 | 77.7 | 71.2 | 87.8 | 94.0 | 79.0 | 69.5 | 64.6 | ----- | 53.5 | 69.2 | ----- | ----- |
| South Dakota | 57.4 | 48.5 | 48.4 | 60.2 | 48.4 | 55.2 | 69.7 | ----- | ----- | 29.4 | ----- | ----- | ----- |
| Tennessee | 145.9 | 139.3 | 146.9 | 133.2 | 140.5 | 112.9 | 105.9 | 103.9 | 104.5 | 106.8 | 108.0 | ----- | ----- |
| White | 119.4 | 113.0 | 107.4 | 102.8 | 109.1 | 79.0 | 81.2 | 78.6 | 84.0 | ----- | ----- | ----- | ----- |
| Colored | 274.1 | 266.8 | 338.3 | 280.6 | 292.8 | 277.6 | 225.4 | 221.5 | 203.4 | ----- | ----- | ----- | ----- |
| Virginia | 85.6 | 84.1 | 93.6 | 96.9 | 78.4 | 82.3 | 76.8 | 74.2 | 78.6 | 84.1 | ----- | ----- | ----- |
| White | 65.8 | 58.3 | 53.6 | 58.8 | 45.7 | 49.3 | 45.7 | 48.3 | 52.5 | 60.7 | ----- | ----- | ----- |
| Colored | 137.8 | 157.1 | 188.3 | 190.8 | 164.1 | 168.7 | 150.5 | 141.9 | 147.2 | 145.5 | ----- | ----- | ----- |
| Wisconsin | 47.7 | 63.8 | 72.9 | 47.8 | 63.4 | 48.3 | 48.0 | ----- | 61.8 | 42.3 | ----- | ----- | ----- |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|-------|--|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | 1928 | 1927 | 1926 | 1925 | |
| DISEASES OF THE NERVOUS SYSTEM (70-86) | | | | | | | | | | | | | | |
| Alabama..... | 95.8 | 100.7 | 106.3 | 111.2 | 97.9 | 87.0 | 96.1 | 96.8 | 103.0 | 87.9 | | | | |
| White..... | 86.9 | 95.3 | 97.0 | 99.5 | 79.7 | 69.4 | 78.5 | 81.1 | 89.0 | 72.9 | | | | |
| Colored..... | 112.4 | 110.8 | 129.4 | 133.2 | 120.0 | 129.2 | 132.2 | 132.2 | 129.2 | 116.0 | | | | |
| California..... | 15.8 | 142.4 | 143.4 | 125.0 | 139.9 | 130.8 | 118.9 | 118.9 | | 126.8 | | | | |
| Iowa..... | 170.2 | 141.1 | 144.3 | 134.3 | | 123.6 | 120.7 | 110.7 | 111.0 | 130.0 | | | | |
| Kansas..... | 162.0 | 170.0 | 139.2 | 143.7 | 135.9 | 120.6 | 132.8 | 103.4 | | 125.3 | | | | |
| Kentucky..... | 112.3 | 98.7 | | | | | | | | | | | | |
| Louisiana..... | 105.6 | 89.4 | 91.7 | 91.2 | 101.7 | 79.7 | 85.7 | 81.7 | | 97.3 | | | | |
| White..... | 94.0 | 68.1 | 80.0 | 64.3 | 85.8 | 69.0 | 69.9 | 73.2 | | 77.1 | | | | |
| Colored..... | 127.1 | 128.5 | 113.3 | 140.5 | 131.0 | 99.3 | 114.8 | 97.3 | | 134.5 | | | | |
| Maryland..... | | | | | | 115.8 | 96.9 | 118.2 | 132.6 | | | | | |
| White..... | | | | | | 114.5 | 94.5 | 113.8 | 126.6 | | | | | |
| Colored..... | | | | | | 123.0 | 109.4 | 141.3 | 164.0 | | | | | |
| Michigan..... | 142.5 | 151.8 | 138.6 | 145.2 | 126.1 | 115.2 | 135.9 | 120.1 | 129.5 | 124.1 | | | | |
| Minnesota..... | 95.6 | 112.5 | 99.7 | 100.8 | 82.2 | 91.3 | 77.4 | 78.7 | 81.8 | 88.2 | | | | |
| Montana..... | | | | | | | | 77.6 | | | | | | |
| Nebraska..... | 133.3 | 146.3 | 106.9 | 120.4 | 106.3 | 77.8 | 92.8 | | | 97.0 | | | | |
| New Jersey..... | 131.0 | 132.2 | 128.3 | 112.5 | 96.5 | 103.5 | 88.7 | 107.6 | 108.8 | 110.9 | 99.9 | 119.7 | 125.3 | |
| New York ¹ | 175.4 | 170.0 | 150.4 | 160.3 | | 118.4 | 119.9 | 126.7 | 137.1 | 139.3 | 142.3 | 145.6 | 169.6 | |
| Pennsylvania..... | 135.5 | 131.4 | 122.4 | 119.6 | 94.0 | 96.0 | 93.6 | 96.7 | 104.2 | 115.4 | | | | |
| South Dakota..... | 103.7 | 98.7 | 96.8 | 83.6 | 81.2 | 70.2 | 98.7 | 83.0 | | 77.8 | | | | |
| Tennessee..... | 104.7 | 117.2 | 103.6 | 106.4 | 104.1 | 98.8 | 83.8 | 91.9 | 101.6 | | | | | |
| White..... | 96.2 | 104.5 | 90.3 | 85.9 | 91.5 | 81.8 | 75.5 | 75.1 | 93.1 | | | | | |
| Colored..... | 146.2 | 173.8 | 167.7 | 206.3 | 250.2 | 181.4 | 123.7 | 173.2 | 142.9 | | | | | |
| Virginia..... | 142.8 | 123.9 | 125.7 | 106.4 | 108.7 | 111.6 | 86.0 | 105.4 | 104.7 | | | | | |
| White..... | 114.8 | 106.8 | 101.2 | 88.4 | 80.5 | 97.3 | 60.0 | 84.2 | 91.0 | | | | | |
| Colored..... | 216.1 | 168.7 | 189.9 | 180.4 | 158.0 | 148.9 | 153.8 | 160.6 | 140.6 | | | | | |

CEREBRAL HEMORRHAGE, APOPLEXY (74)

| | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alabama..... | 55.1 | 53.9 | 63.7 | 66.4 | 56.6 | 56.3 | 55.8 | 69.0 | 60.9 | 55.1 | 55.8 | 52.5 | 43.0 |
| White..... | 52.8 | 57.5 | 54.3 | 58.9 | 44.9 | 42.8 | 46.3 | 56.5 | 51.2 | 39.2 | 48.8 | 42.9 | |
| Colored..... | 65.7 | 55.4 | 79.0 | 84.4 | 76.3 | 81.8 | 73.8 | 92.7 | 79.1 | 83.1 | 68.4 | 69.7 | |
| California..... | 105.6 | 97.7 | 100.9 | 91.7 | 95.2 | 93.6 | 89.9 | 81.2 | | 88.9 | | | |
| Georgia..... | 76.1 | 65.8 | 58.1 | 67.6 | 77.5 | 69.5 | 59.6 | | | | | | |
| Hawaii Territory..... | 71.0 | 40.5 | 48.0 | 50.6 | 45.3 | 72.4 | 55.9 | 57.8 | 69.1 | 84.3 | 50.7 | | |
| Indiana..... | 126.0 | 120.1 | 104.2 | 107.1 | 106.5 | 104.5 | 85.6 | 91.9 | | 96.4 | 112.1 | 94.2 | 102.7 |
| Iowa..... | 125.6 | 92.6 | 108.7 | 98.4 | | 88.7 | 89.7 | 85.7 | 86.8 | 92.6 | | | |
| Kansas..... | 132.1 | 133.5 | 110.8 | 112.9 | 106.8 | 93.0 | 102.7 | 81.6 | | 96.8 | | | |
| Kentucky..... | 66.9 | 58.1 | | | | | | | | | | | |
| Louisiana..... | 64.8 | 54.3 | 61.2 | 62.2 | 61.8 | 50.1 | 51.3 | 59.9 | | 61.8 | | | |
| White..... | 56.8 | 41.0 | 51.1 | 44.8 | 49.1 | 44.8 | 39.2 | 53.0 | | 43.4 | | | |
| Colored..... | 79.6 | 73.8 | 79.6 | 94.2 | 84.9 | 60.0 | 73.7 | 72.6 | | 96.6 | | | |
| Maryland..... | | | | | | 88.9 | 72.9 | 84.3 | 105.6 | | | | |
| White..... | | | | | | 88.5 | 73.7 | 78.0 | 98.9 | | | | |
| Colored..... | | | | | | 91.1 | 68.3 | 117.7 | 141.3 | | | | |
| Michigan..... | 99.1 | 112.1 | 100.2 | 102.3 | 89.6 | 80.0 | 82.6 | 85.3 | 95.9 | 92.3 | | | |
| Minnesota..... | 69.6 | 84.4 | 71.5 | 77.9 | 63.0 | 64.0 | 58.8 | 56.8 | 60.6 | 67.5 | | | |
| Mississippi..... | 78.6 | 69.7 | 64.5 | 77.6 | 63.2 | 71.0 | 64.4 | 63.9 | | 67.9 | | | |
| White..... | 79.4 | 77.2 | 59.8 | 66.2 | 58.4 | 55.2 | 52.4 | 62.7 | | 65.5 | | | |
| Colored..... | 78.1 | 63.0 | 69.0 | 88.2 | 67.6 | 85.6 | 75.4 | 64.9 | | 70.1 | | | |
| Montana..... | | | | | | | | 55.4 | | | | | |
| Nebraska..... | 95.4 | 109.5 | 82.1 | 92.8 | 72.6 | 60.2 | 71.1 | | | 78.3 | | | |
| New Jersey..... | 96.9 | 97.4 | 90.1 | 85.1 | 67.2 | 75.5 | 67.8 | 76.7 | 80.1 | 80.7 | | | |
| New York ¹ | 138.5 | 128.8 | 115.6 | 130.8 | 95.1 | 95.3 | 84.2 | 96.4 | 109.6 | 104.4 | 108.0 | 112.4 | 133.6 |
| Pennsylvania..... | 98.1 | 92.7 | 88.4 | 87.5 | 71.7 | 76.0 | 64.5 | 71.9 | 77.7 | 80.7 | | | |
| South Dakota..... | 59.3 | 60.2 | 55.3 | 53.5 | 60.1 | 45.2 | 51.9 | 48.4 | | 43.2 | | | |
| Tennessee..... | 60.4 | 59.8 | 55.9 | 69.6 | 59.3 | 53.2 | 52.7 | 55.9 | 63.1 | | | | |
| White..... | 55.9 | 55.1 | 45.8 | 53.4 | 51.6 | 47.1 | 47.1 | 48.7 | 58.5 | | | | |
| Colored..... | 82.2 | 82.5 | 105.2 | 148.6 | 96.7 | 82.5 | 79.7 | 90.9 | 85.2 | | | | |
| Virginia..... | 102.3 | 90.5 | 90.3 | 71.3 | 78.4 | 84.6 | 57.6 | 70.4 | 78.2 | | | | |
| White..... | 82.6 | 72.6 | 73.1 | 57.5 | 63.4 | 74.6 | 41.1 | 51.6 | 69.5 | | | | |
| Colored..... | 153.8 | 137.3 | 135.0 | 107.5 | 117.9 | 110.8 | 100.9 | 119.6 | 100.9 | | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|-------|------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | 1928 | 1927 | 1926 | 1925 |
| | | | | | | | | | | | | | | |
| DISEASES OF THE CIRCULATORY SYSTEM (87-96) | | | | | | | | | | | | | | |
| Alabama..... | 142.9 | 132.7 | 141.4 | 149.2 | 134.3 | 132.3 | 138.7 | 130.0 | 148.7 | 133.6 | | | | |
| White..... | 120.3 | 110.7 | 119.5 | 113.5 | 107.9 | 89.7 | 107.2 | 97.8 | 124.0 | 113.5 | | | | |
| Colored..... | 185.4 | 174.1 | 182.6 | 216.2 | 183.9 | 212.3 | 197.8 | 190.8 | 195.1 | 171.4 | | | | |
| California..... | 583.4 | 372.4 | 360.2 | 335.7 | 326.1 | 294.1 | 304.2 | 286.8 | | 267.3 | | | | |
| Iowa..... | 287.2 | 268.2 | 282.6 | 271.6 | | 222.1 | 190.6 | 231.0 | 240.0 | 224.0 | | | | |
| Kansas..... | 216.7 | 198.3 | 198.9 | 198.0 | 179.0 | 160.4 | 158.5 | 175.0 | | 169.7 | | | | |
| Kentucky..... | 198.5 | 191.9 | | | | | | | | | | | | |
| Louisiana..... | 242.0 | 213.7 | 209.6 | 195.0 | 195.9 | 196.8 | 178.1 | 175.3 | | 184.7 | | | | |
| White..... | 194.7 | 179.0 | 164.8 | 148.3 | 154.2 | 149.2 | 140.8 | 128.2 | | 141.6 | | | | |
| Colored..... | 330.0 | 277.5 | 292.0 | 280.9 | 272.6 | 284.3 | 246.7 | 262.0 | | 263.7 | | | | |
| Maryland..... | | | | | | 239.7 | 140.4 | 219.8 | 241.9 | | | | | |
| White..... | | | | | | 230.7 | 105.5 | 199.0 | 230.7 | | | | | |
| Colored..... | | | | | | 282.5 | 231.5 | 282.5 | 300.7 | | | | | |
| Michigan..... | 273.2 | 276.7 | 266.3 | 278.5 | 245.4 | 215.2 | 206.5 | 219.7 | | 240.3 | | | | |
| Minnesota..... | 185.6 | 191.6 | 178.8 | 189.5 | 176.1 | 171.3 | 153.1 | 161.4 | 168.3 | 172.2 | | | | |
| Montana..... | | | | | | | | 139.6 | | | | | | |
| Nebraska..... | 216.6 | 219.1 | 173.7 | 209.1 | 146.9 | 168.2 | 13.5 | | | 152.2 | | | | |
| New Jersey..... | 344.9 | 305.4 | 297.4 | 258.5 | 255.1 | 233.9 | 192.3 | 222.6 | 108.8 | 250.8 | 229.9 | 211.6 | 224.4 | |
| New York ¹ | 441.9 | 382.3 | 369.9 | 341.2 | 297.2 | 301.3 | 305.2 | 304.7 | 337.7 | 335.4 | 309.8 | 326.1 | 339.3 | |
| Pennsylvania..... | 299.7 | 278.4 | 259.7 | 248.0 | 217.5 | 206.7 | 190.9 | 201.2 | 237.3 | 236.1 | | | | |
| South Carolina..... | 292.3 | 291.2 | 269.6 | 296.9 | 312.0 | 272.9 | 296.9 | 277.4 | | 283.3 | 273.0 | | | |
| South Dakota..... | 150.0 | 155.5 | 134.8 | 160.6 | 115.8 | 95.3 | 148.9 | 100.2 | | 129.6 | | | | |
| Tennessee..... | 159.4 | 160.0 | 136.6 | 149.2 | 149.8 | 142.6 | 120.0 | 134.2 | 135.1 | | | | | |
| White..... | 134.5 | 130.0 | 116.2 | 132.3 | 119.1 | 113.0 | 97.4 | 111.5 | 109.6 | | | | | |
| Colored..... | 280.2 | 305.4 | 235.9 | 231.1 | 298.5 | 285.8 | 219.9 | 244.2 | 258.4 | | | | | |
| Virginia..... | 217.7 | 218.6 | 164.4 | 185.2 | 174.3 | 149.1 | 140.4 | 145.1 | 177.9 | | | | | |
| White..... | 191.5 | 174.4 | 150.9 | 159.9 | 145.0 | 130.8 | 105.5 | 121.5 | 157.4 | | | | | |
| Colored..... | 278.3 | 334.1 | 200.0 | 251.4 | 251.2 | 196.8 | 231.5 | 206.8 | 231.5 | | | | | |

DISEASES OF THE HEART (87-90)

| | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Alabama..... | 125.6 | 117.9 | 132.6 | 140.4 | 125.0 | 124.0 | 125.4 | 122.0 | 136.8 | 121.6 | 91.9 | 98.4 | | 85.5 |
| White..... | 108.6 | 103.0 | 110.8 | 105.1 | 96.9 | 86.9 | 93.9 | 90.5 | 111.4 | 103.0 | 77.3 | 82.0 | | |
| Colored..... | 176.2 | 163.5 | 171.7 | 205.7 | 177.1 | 193.8 | 184.6 | 181.3 | 184.6 | 155.6 | 118.4 | 127.5 | | |
| California..... | 338.2 | 329.2 | 317.0 | 299.0 | 286.3 | 258.7 | 267.5 | 259.6 | | 223.0 | | | | |
| Connecticut..... | 219.2 | 212.4 | 194.3 | 190.9 | 155.0 | 170.0 | 154.3 | 153.5 | 187.1 | 156.8 | 165.9 | 161.6 | 172.4 | |
| Georgia..... | 96.9 | 96.9 | 107.5 | 105.9 | 141.7 | 117.7 | 102.9 | | 117.3 | | | | | |
| Hawaii Territory..... | 141.9 | 138.5 | 132.5 | 141.7 | 118.5 | 92.1 | 102.0 | 119.1 | 95.4 | 114.7 | 83.3 | | | |
| Indiana..... | 198.7 | 243.2 | 199.2 | 228.0 | 222.2 | 187.6 | 167.9 | 186.2 | | 201.7 | 179.4 | 158.3 | 148.4 | |
| Iowa..... | 264.0 | 233.7 | 251.1 | 239.6 | | 197.4 | 167.3 | 209.5 | 209.5 | 190.6 | | | | |
| Kansas..... | 185.4 | 173.9 | 173.1 | 175.2 | 153.2 | 139.9 | 131.5 | 161.8 | | 153.2 | | | | |
| Kentucky..... | 168.3 | 160.0 | | | | | | | | | | | | |
| Louisiana..... | 221.3 | 193.8 | 192.8 | 183.6 | 177.8 | 182.9 | 167.3 | 169.7 | | 179.1 | | | | |
| White..... | 178.6 | 160.4 | 150.3 | 137.1 | 137.8 | 138.9 | 131.5 | 115.6 | | 134.9 | | | | |
| Colored..... | 299.6 | 255.2 | 270.8 | 268.9 | 251.3 | 263.8 | 233.0 | 240.7 | | 260.2 | | | | |
| Maryland..... | | | | | | 304.0 | 199.6 | 183.7 | 218.6 | | | | | |
| White..... | | | | | | 198.6 | 184.7 | 174.8 | 208.1 | | | | | |
| Colored..... | | | | | | 232.4 | 278.0 | 230.7 | 273.4 | | | | | |
| Michigan..... | 235.7 | 240.8 | 238.5 | 240.0 | 218.1 | 285.2 | 177.7 | 186.6 | 188.5 | 215.4 | | | | |
| Minnesota..... | 150.5 | 147.5 | 100.1 | 152.7 | 136.8 | 140.6 | 121.5 | 127.8 | 132.8 | 144.5 | | | | |
| Mississippi..... | 112.8 | 90.3 | 106.7 | 111.8 | 108.0 | 127.0 | 111.8 | 87.6 | | 99.9 | | | | |
| White..... | 114.5 | 102.0 | 95.5 | 95.1 | 84.1 | 91.0 | 104.8 | 69.8 | | 88.3 | | | | |
| Colored..... | 111.5 | 97.0 | 117.1 | 127.2 | 130.1 | 159.9 | 118.1 | 103.9 | | 110.4 | | | | |
| Montana..... | | | | | | | | 126.3 | | | | | | |
| Nebraska..... | 196.3 | 194.0 | 173.7 | 187.3 | 132.2 | 145.5 | 117.1 | | | 136.3 | | | | |
| New Jersey..... | 324.4 | 277.6 | 276.1 | 236.0 | 226.7 | 214.8 | 273.5 | 207.3 | 241.9 | 229.0 | | | | |
| New York ¹ | 391.7 | 338.9 | 322.0 | 292.6 | 257.9 | 262.4 | 261.6 | 258.6 | 292.4 | 291.3 | 264.4 | 284.6 | 288.9 | |
| Pennsylvania..... | 273.9 | 248.8 | 232.3 | 221.3 | 196.7 | 185.9 | 172.8 | 178.3 | 214.3 | 214.0 | 199.5 | 202.0 | 182.0 | |
| South Dakota..... | 129.6 | 138.8 | 115.8 | 142.2 | 102.0 | 76.9 | 91.1 | 95.0 | | 112.3 | | | | |
| Tennessee..... | 148.0 | 150.1 | 125.0 | 137.9 | 135.7 | 128.0 | 106.4 | 122.5 | 120.9 | 126.1 | | | | |
| White..... | 125.1 | 121.5 | 97.7 | 122.6 | 108.5 | 97.7 | 83.5 | 102.1 | 94.3 | | | | | |
| Colored..... | 258.9 | 288.9 | 201.8 | 211.8 | 267.2 | 274.8 | 217.1 | 221.5 | 250.1 | | | | | |
| Virginia..... | 193.4 | 202.6 | 149.3 | 171.0 | 156.4 | 129.5 | 121.6 | 129.5 | 158.7 | | | | | |
| White..... | 171.4 | 160.5 | 134.5 | 145.4 | 129.3 | 121.3 | 89.1 | 107.8 | 137.8 | | | | | |
| Colored..... | 250.9 | 312.6 | 188.0 | 238.2 | 227.3 | 186.9 | 206.7 | 184.6 | 213.4 | | | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|-----------------------|--|-------|-------|-------|-------|------|------|-------|-------|-------|--------------------------|------|-------|--|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | 1928 | 1927 | 1926 | 1925 | |
| | DISEASES OF THE RESPIRATORY SYSTEM (97-107) | | | | | | | | | | | | | |
| Alabama | 123.1 | 125.4 | 102.6 | 84.7 | 61.0 | 37.1 | 40.7 | 42.1 | 68.6 | 65.4 | | | | |
| White | 100.9 | 114.9 | 84.7 | 63.1 | 48.5 | 24.5 | 34.3 | 39.8 | 58.9 | 59.6 | | | | |
| Colored | 165.0 | 145.1 | 136.2 | 125.3 | 84.5 | 60.7 | 52.7 | 46.3 | 87.0 | 76.5 | | | | |
| California | 162.2 | 167.2 | 139.1 | 96.5 | 92.1 | 64.4 | 56.3 | 63.6 | | 68.1 | | | | |
| Iowa | 112.7 | 91.2 | 82.2 | 71.3 | | 43.2 | 35.4 | 47.6 | 54.3 | 61.6 | | | | |
| Kansas | 135.0 | 141.2 | 96.2 | 50.0 | 33.8 | 20.5 | 37.2 | 27.8 | | 32.5 | | | | |
| Kentucky | 197.6 | 134.2 | | | | | | | | | | | | |
| Louisiana | 126.3 | 129.2 | 90.5 | 65.2 | 61.8 | 51.3 | 56.2 | 54.3 | | 54.9 | | | | |
| White | 87.8 | 97.9 | 51.1 | 42.0 | 49.1 | 28.9 | 39.2 | 37.6 | | 38.5 | | | | |
| Colored | 197.2 | 186.7 | 134.5 | 107.9 | 84.9 | 92.5 | 87.4 | 85.0 | | 84.9 | | | | |
| Maryland | | | | | | | | | | | | | | |
| White | | | | | | | 56.1 | 53.2 | 61.0 | 96.9 | | | | |
| Colored | | | | | | | 34.7 | 37.3 | 48.4 | 74.6 | | | | |
| Michigan | 155.5 | 147.0 | 130.1 | 121.8 | 87.5 | 42.6 | 45.4 | 51.9 | 79.0 | 76.2 | | | | |
| Minnesota | 74.8 | 83.1 | 74.2 | 71.8 | 49.2 | 35.0 | 32.9 | 43.4 | 64.9 | 56.2 | | | | |
| Montana | | | | | | | | 24.4 | | | | | | |
| Nebraska | 131.5 | 107.9 | 75.2 | 56.9 | 40.6 | 22.6 | 17.7 | | | 27.6 | | | | |
| New Jersey | 203.0 | 174.1 | 116.9 | 101.4 | 62.7 | 50.5 | 45.3 | 49.4 | 69.9 | 78.3 | | | | |
| New York ¹ | 185.4 | 152.6 | 134.2 | 108.2 | 73.6 | 46.7 | 48.2 | 51.1 | 86.2 | 82.5 | 71.6 | 82.3 | 103.6 | |
| Pennsylvania | 184.2 | 164.4 | 117.6 | 90.1 | 67.1 | 47.7 | 47.8 | 61.2 | 90.1 | 88.9 | | | | |
| South Dakota | 98.1 | 92.0 | 81.2 | 75.3 | 44.9 | 46.8 | 55.2 | 31.1 | | 31.1 | | | | |
| Tennessee | 157.3 | 156.7 | 97.7 | 74.8 | 50.1 | 44.7 | 50.4 | 66.6 | | 79.5 | | | | |
| White | 133.9 | 127.7 | 83.3 | 59.0 | 37.5 | 36.9 | 41.5 | 54.6 | | 67.6 | | | | |
| Colored | 271.1 | 297.1 | 167.7 | 151.3 | 110.9 | 82.5 | 93.4 | 125.0 | | 137.4 | | | | |
| Virginia | 132.6 | 119.8 | 79.9 | 71.8 | 41.6 | 35.2 | 38.4 | 41.1 | 62.2 | | | | | |
| White | 98.7 | 97.3 | 61.4 | 53.7 | 30.7 | 31.0 | 26.5 | 26.8 | 43.0 | | | | | |
| Colored | 221.6 | 178.6 | 128.2 | 119.1 | 70.1 | 46.3 | 69.5 | 78.6 | 112.5 | | | | | |

PNEUMONIA, ALL FORMS (100, 101)

| | | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Alabama | 111.6 | 110.5 | 97.9 | 79.8 | 53.4 | 32.5 | 34.8 | 31.7 | 56.7 | 54.1 | 57.2 | 58.7 | 33.2 |
| White | 93.9 | 107.2 | 80.4 | 60.3 | 41.3 | 21.7 | 28.0 | 32.6 | 47.7 | 46.3 | 45.9 | 51.7 | |
| Colored | 160.6 | 133.2 | 130.4 | 116.0 | 76.3 | 52.7 | 47.5 | 30.0 | 73.8 | 68.6 | 77.6 | 71.0 | |
| California | 125.6 | 152.5 | 119.4 | 83.5 | 76.9 | 54.8 | 45.2 | 47.8 | | 57.4 | | | |
| Connecticut | 222.0 | 142.8 | 94.5 | 96.8 | 64.1 | 43.8 | 35.2 | 44.5 | 66.7 | 73.7 | 59.4 | 55.1 | 96.2 |
| Georgia | 97.3 | 77.6 | 70.3 | 46.7 | 52.4 | 34.2 | 24.3 | | | 47.1 | | | |
| Hawaii Territory | 254.0 | 168.7 | 217.5 | 202.4 | 120.4 | 121.7 | 157.9 | 106.5 | 102.0 | 134.9 | 155.8 | | |
| Illinois | 74.2 | 120.0 | 92.2 | 86.6 | 57.6 | 34.2 | 30.7 | 36.2 | 50.9 | 60.3 | 51.7 | 47.0 | 51.9 |
| Indiana | 169.5 | 137.9 | 83.5 | 85.6 | 50.2 | 24.8 | 38.2 | 55.2 | 94.1 | 61.5 | 67.7 | 65.2 | 70.8 |
| Iowa | 96.1 | 77.6 | 71.7 | 40.2 | | 36.4 | 26.7 | 37.6 | 45.1 | 50.4 | | | |
| Kansas | 112.0 | 125.8 | 76.9 | 41.1 | 23.9 | 13.5 | 28.2 | | | 25.9 | | | |
| Kentucky | 180.3 | 116.7 | | | | | | | | | | | |
| Louisiana | 111.6 | 118.3 | 66.0 | 62.5 | 58.0 | 43.5 | 45.9 | 48.7 | | 41.2 | | | |
| White | 80.5 | 88.6 | 41.4 | 31.7 | 45.3 | 24.2 | 29.8 | 32.8 | | 28.9 | | | |
| Colored | 168.8 | 173.0 | 116.8 | 90.8 | 81.4 | 78.8 | 75.4 | 77.9 | | 63.7 | | | |
| Maryland | | | | | | | | | | | | | |
| White | | | | | | | | | 89.6 | | | | |
| Colored | | | | | | | | | 27.8 | 41.2 | 66.8 | | |
| Michigan | 136.5 | 125.2 | 114.2 | 105.7 | 78.4 | 33.6 | 33.9 | 41.3 | 205.0 | 61.3 | | | |
| Minnesota | 71.4 | 72.2 | 66.4 | 65.3 | 30.8 | 23.1 | 29.4 | 36.3 | 56.2 | 51.0 | | | |
| Mississippi | 107.0 | 110.4 | 63.2 | 38.8 | 26.5 | 15.1 | 10.7 | 38.7 | | 29.9 | | | |
| White | 103.8 | 106.2 | 48.4 | 41.4 | 17.1 | 13.8 | 23.4 | 44.2 | | 22.8 | | | |
| Colored | 110.1 | 114.6 | 76.8 | 36.5 | 35.0 | 16.4 | 16.3 | 33.8 | | 36.4 | | | |
| Montana | | | | | | | | 17.7 | | | | | |
| Nebraska | 115.7 | 96.2 | 65.7 | 51.0 | 35.4 | 16.7 | 11.7 | | | 18.4 | | | |
| New Jersey | 137.3 | 153.8 | 99.4 | 91.2 | 51.6 | 44.1 | 37.0 | 39.8 | 61.3 | 68.4 | 32.0 | 33.3 | 54.9 |
| New York ¹ | 165.8 | 135.6 | 116.7 | 92.4 | 62.8 | 37.6 | 39.0 | 42.5 | 71.8 | 65.9 | 59.8 | 66.5 | 87.8 |
| North Carolina | 177.5 | 130.2 | 113.5 | 81.0 | | | | | | | | | |
| Pennsylvania | 162.0 | 142.8 | 97.7 | 85.0 | | 52.7 | 38.9 | 37.5 | 49.3 | 75.3 | 72.8 | 67.7 | 78.2 |
| South Carolina | 125.2 | 130.1 | 90.7 | 77.1 | 62.0 | 37.9 | 44.8 | 58.1 | | | | | |
| South Dakota | 77.8 | 85.3 | 62.2 | 68.6 | 34.6 | 36.8 | 46.8 | 25.9 | | 20.7 | | | |
| Tennessee | 146.4 | 140.7 | 86.6 | 66.4 | 30.4 | 33.9 | 41.4 | 55.9 | 66.4 | 50.3 | 57.3 | | |
| White | 125.1 | 114.7 | 73.9 | 53.4 | 31.7 | 28.4 | 34.1 | 46.9 | 55.6 | | | | |
| Colored | 249.8 | 266.8 | 147.8 | 129.3 | 76.8 | 60.5 | 70.7 | 90.4 | 118.2 | | | | |
| Virginia | 120.5 | 104.7 | 63.0 | 60.4 | 36.9 | 26.5 | 28.8 | 31.7 | 52.1 | | | | |
| White | 90.3 | 87.2 | 50.9 | 44.9 | 28.1 | 24.0 | 20.2 | 20.2 | 36.0 | | | | |
| Colored | 199.6 | 160.5 | 112.8 | 100.9 | 69.8 | 33.1 | 51.3 | 61.5 | 94.3 | | | | |
| Wisconsin | 120.5 | 88.9 | 84.5 | 78.9 | 49.0 | 30.0 | 29.9 | 38.3 | 0 | 58.2 | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued.

| | 1929 | | | | | | | | | Corresponding month for— | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|------|------|
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | 1928 | 1927 | 1926 | 1925 |
| DISEASES OF THE DIGESTIVE SYSTEM (108-127) | | | | | | | | | | | | | |
| Alabama..... | 51.2 | 155.6 | 61.9 | 106.2 | 147.5 | 139.1 | 107.5 | 100.7 | 67.7 | 91.5 | | | |
| White..... | 46.6 | 141.6 | 46.3 | 101.6 | 143.4 | 136.0 | 100.2 | 92.0 | 64.5 | 94.6 | | | |
| Colored..... | 59.9 | 182.0 | 61.3 | 104.7 | 155.3 | 145.0 | 121.3 | 117.2 | 73.8 | 85.7 | | | |
| California..... | 85.6 | 91.2 | 94.5 | 92.0 | 103.9 | 112.9 | 103.6 | 111.1 | | 96.7 | | | |
| Hawaii Territory..... | 186.8 | 209.2 | 198.7 | 182.2 | 174.3 | 180.9 | 157.9 | 132.7 | 115.1 | 124.8 | 173.9 | | |
| Iowa..... | 58.0 | 73.7 | 66.6 | 62.1 | 77.9 | 68.9 | 62.1 | 66.6 | 62.1 | 76.1 | | | |
| Kansas..... | 63.9 | 73.1 | 64.2 | 62.9 | 76.3 | 85.3 | 91.1 | 82.2 | | 141.2 | | | |
| Kentucky..... | 52.1 | 55.3 | | | | | | | | | | | |
| Louisiana..... | 78.2 | 80.9 | 78.6 | 112.3 | 128.5 | 122.6 | 105.7 | 105.7 | | 111.1 | | | |
| White..... | 76.4 | 79.3 | 56.9 | 87.7 | 86.7 | 106.3 | 96.7 | 86.7 | | 108.9 | | | |
| Colored..... | 81.5 | 83.9 | 118.6 | 157.6 | 205.3 | 152.4 | 142.8 | 115.2 | 96.9 | 123.9 | | | |
| Maryland..... | | | | | | | | | | | | | |
| White..... | | | | | | 173.1 | 236.9 | 163.1 | 163.6 | | | | |
| Colored..... | | | | | | 80.7 | 124.9 | 96.5 | 83.3 | | | | |
| Michigan..... | 92.2 | 82.8 | 80.6 | 90.5 | 89.0 | 78.2 | 95.7 | 128.3 | 101.6 | 94.6 | | | |
| Minnesota..... | 59.3 | 62.3 | 63.5 | 67.9 | 59.0 | 64.5 | 64.0 | 63.0 | 56.2 | 64.9 | | | |
| Montana..... | | | | | | | | 58.6 | | | | | |
| Nebraska..... | 81.5 | 73.6 | 73.4 | 71.9 | 55.3 | 71.1 | 86.1 | | | 107.0 | | | |
| New Jersey..... | 61.1 | 86.3 | 76.1 | 75.8 | 73.6 | 74.6 | 71.8 | 92.7 | 79.5 | 78.6 | | | |
| New York ¹ | 71.9 | 74.2 | 69.9 | 71.5 | 62.0 | 64.7 | 79.0 | 93.6 | 80.2 | 73.7 | 66.9 | 55.7 | 60.8 |
| Pennsylvania..... | 74.8 | 73.6 | 75.0 | 61.4 | 62.9 | 71.5 | 87.8 | 120.3 | 82.3 | 86.4 | | | |
| South Dakota..... | 72.2 | 68.6 | 68.8 | 78.6 | 44.9 | 58.5 | 80.3 | 95.0 | | 74.3 | | | |
| Tennessee..... | 60.4 | 66.8 | 70.0 | 71.1 | 110.9 | 171.8 | 133.2 | 98.2 | 101.2 | | | | |
| White..... | 47.1 | 60.7 | 55.1 | 63.0 | 142.1 | 160.7 | 127.2 | 90.9 | 89.1 | | | | |
| Colored..... | 124.9 | 96.3 | 142.1 | 110.0 | 104.4 | 225.4 | 162.2 | 133.5 | 159.4 | | | | |
| Virginia..... | 48.1 | 55.8 | 52.0 | 60.4 | 102.5 | 104.3 | 96.7 | 99.9 | 64.9 | | | | |
| White..... | 38.5 | 46.1 | 47.7 | 36.7 | 73.8 | 87.9 | 87.8 | 59.4 | 56.9 | | | | |
| Colored..... | 73.3 | 81.0 | 63.2 | 122.4 | 177.7 | 147.2 | 130.7 | 97.4 | 86.0 | | | | |
| DIARRHEA AND ENTERITIS UNDER 2 YEARS (113) | | | | | | | | | | | | | |
| Alabama..... | 5.8 | 7.0 | 12.4 | 40.8 | 64.8 | 62.7 | 33.4 | 28.4 | 22.0 | 30.7 | 20.6 | 35.0 | 33.6 |
| White..... | 3.9 | 10.5 | 5.8 | 38.5 | 65.9 | 67.3 | 30.8 | 26.8 | 21.0 | 37.1 | 25.5 | 39.9 | |
| Colored..... | 10.2 | 1.3 | 24.5 | 44.8 | 62.7 | 54.1 | 38.2 | 31.3 | 23.7 | 18.5 | 11.8 | 26.3 | |
| California..... | 9.2 | 8.5 | 11.2 | 17.6 | 23.0 | 28.4 | 27.1 | 27.0 | | 19.8 | | | |
| Connecticut..... | 15.9 | 5.7 | 5.2 | 11.5 | 8.2 | 5.0 | 17.9 | | | | | | |
| Georgia..... | 6.9 | 7.4 | 12.2 | 22.8 | 35.3 | 29.8 | 27.6 | | 12.9 | | | | |
| Hawaii Territory..... | | | | | | | | 96.7 | 65.8 | | | | |
| Indiana..... | 6.6 | 11.9 | 5.7 | 7.4 | 10.3 | 25.6 | 47.1 | 43.7 | 31.0 | 28.2 | 37.4 | 41.8 | 53.3 |
| Iowa..... | 1.1 | 2.9 | 4.5 | 2.9 | | 3.9 | 5.8 | 4.5 | 1.9 | 12.1 | | | |
| Kansas..... | 5.7 | 12.2 | 7.3 | 4.5 | 6.0 | 12.2 | 19.2 | 24.5 | | 40.4 | | | |
| Kentucky..... | 8.2 | 8.3 | | | | | | | | | | | |
| Louisiana..... | 19.4 | 26.0 | 22.4 | 34.4 | 49.3 | 34.4 | 31.4 | 29.9 | | 26.8 | | | |
| White..... | 17.5 | 23.3 | 15.4 | 21.4 | 27.0 | 28.9 | 22.4 | 19.3 | | 26.0 | | | |
| Colored..... | 22.7 | 30.8 | 35.4 | 58.2 | 90.3 | 44.5 | 48.0 | 49.6 | | 28.3 | | | |
| Maryland..... | | | | | | | | | 19.7 | | | | |
| White..... | | | | | | | | | 16.5 | | | | |
| Colored..... | | | | | | | | | 36.5 | | | | |
| Michigan..... | 19.2 | 9.0 | 11.1 | 12.6 | 11.4 | 10.0 | 23.1 | 44.3 | | 25.9 | | | |
| Minnesota..... | 4.3 | 4.3 | 3.6 | 3.9 | 3.1 | 2.2 | 6.5 | 3.6 | 4.3 | 6.1 | | | |
| Mississippi..... | 4.4 | 7.2 | 12.2 | 32.9 | 55.0 | 50.0 | 25.0 | 18.3 | | 24.5 | | | |
| White..... | 3.1 | 4.1 | 14.3 | 28.9 | 59.8 | 49.6 | 15.2 | 18.5 | | 27.1 | | | |
| Colored..... | 5.6 | 10.1 | 10.4 | 36.6 | 105.4 | 50.4 | 33.9 | 18.2 | | 22.1 | | | |
| Montana..... | | | | | | | | 19.9 | | | | | |
| Nebraska..... | 9.3 | 5.9 | 5.2 | 3.3 | 3.5 | 3.3 | 12.5 | | | 23.4 | | | |
| New Jersey..... | 7.2 | 10.2 | 10.5 | 7.7 | 6.4 | 10.2 | 17.3 | 29.6 | 19.4 | 16.9 | 17.3 | 23.7 | 32.1 |
| New York ¹ | 9.6 | 9.5 | 7.9 | 8.7 | 7.2 | 6.0 | 13.9 | 23.9 | 16.7 | 15.2 | 19.9 | 27.9 | 38.5 |
| North Carolina..... | 10.2 | 4.0 | 11.2 | 38.5 | | | | | | | | | |
| Pennsylvania..... | 14.0 | 15.2 | 12.3 | 10.2 | 8.6 | 15.6 | 28.4 | 52.2 | 26.4 | 30.0 | 42.3 | 58.3 | 67.5 |
| South Dakota..... | 5.6 | 6.7 | 6.9 | 3.3 | 1.7 | 1.7 | 10.0 | 17.3 | | 12.1 | | | |
| Tennessee..... | 3.6 | 8.9 | 6.8 | 10.4 | 38.9 | 77.7 | 53.6 | 36.5 | 29.2 | 35.8 | 21.8 | | |
| White..... | 3.8 | 8.0 | 5.3 | 7.4 | 38.7 | 74.4 | 55.6 | 38.7 | 27.8 | | | | |
| Colored..... | 3.1 | 13.8 | 14.2 | 24.8 | 39.8 | 93.5 | 44.0 | 25.6 | 35.7 | | | | |
| Virginia..... | 5.6 | 5.5 | 3.3 | 12.3 | 37.3 | 50.3 | 37.0 | 27.9 | 16.5 | 22.9 | | | |
| White..... | 4.2 | 4.4 | 3.3 | 6.3 | 18.9 | 41.7 | 32.9 | 26.8 | 17.1 | 18.9 | | | |
| Colored..... | 9.2 | 8.3 | 3.4 | 28.1 | 86.5 | 72.8 | 48.0 | 30.8 | 14.9 | 33.1 | | | |
| Wisconsin..... | 15.9 | 14.4 | 11.9 | 14.8 | 9.5 | 6.8 | 8.0 | 9.4 | 8.8 | 8.4 | | | |

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

| | 1929 | | | | | | | | | | Corresponding month for— | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|-------|------|
| | | | | | | | | | | | 1928 | 1927 | 1926 | 1925 |
| | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | | | | | |
| NEPHRITIS (128,129) | | | | | | | | | | | | | | |
| Alabama | 85.6 | 95.2 | 91.7 | 104.3 | 96.9 | 95.2 | 92.9 | 76.1 | 99.3 | | | | | |
| White | 76.0 | 78.5 | 79.7 | 80.6 | 71.0 | 84.1 | 79.2 | 60.1 | 70.1 | | | | | |
| Colored | 103.6 | 126.6 | 114.4 | 149.0 | 145.8 | 116.0 | 118.7 | 106.3 | 154.3 | | | | | |
| California | 128.5 | 103.5 | 128.2 | 106.7 | 108.7 | 98.5 | 91.0 | 84.9 | | 100.1 | | | | |
| Connecticut | 100.9 | 67.4 | 68.2 | 116.2 | 54.9 | 46.6 | 35.2 | 56.3 | 70.3 | 60.5 | | | | |
| Georgia | 134.7 | 105.1 | 117.8 | 111.1 | 123.1 | 115.8 | 111.8 | | 126.8 | | | | | |
| Indiana | 85.4 | 100.1 | 95.0 | 92.7 | 74.3 | 73.8 | 63.8 | 70.9 | | 75.6 | 75.1 | 84.8 | 76.1 | |
| Iowa | 56.9 | 60.1 | 61.6 | 56.7 | | 42.2 | 36.9 | 52.1 | 41.2 | 52.4 | | | | |
| Kansas | 104.4 | 98.8 | 94.8 | 93.0 | 92.8 | 77.6 | 69.9 | 80.2 | | 88.2 | | | | |
| Kentucky | 84.8 | 68.7 | | | | | | | | | | | | |
| Louisiana | 131.7 | 111.1 | 112.3 | 115.9 | 120.4 | 99.0 | 108.7 | 108.7 | | 93.6 | | | | |
| White | 115.6 | 87.6 | 84.8 | 79.3 | 90.6 | 82.1 | 88.6 | 90.6 | | 69.4 | | | | |
| Colored | 161.2 | 154.1 | 162.8 | 183.3 | 175.2 | 130.2 | 145.6 | 136.3 | | 138.0 | | | | |
| Maryland | | | | | | 123.9 | 133.3 | 124.2 | 157.4 | | | | | |
| White | | | | | | 117.1 | 127.5 | 110.2 | 148.3 | | | | | |
| Colored | | | | | | 191.4 | 154.9 | 197.8 | 205.0 | | | | | |
| Michigan | 75.4 | 74.9 | 73.4 | 67.4 | 72.6 | 59.8 | 62.6 | 62.8 | 61.0 | 68.2 | | | | |
| Minnesota | 56.2 | 58.7 | 54.1 | 49.7 | 48.7 | 42.4 | 39.4 | 40.2 | 46.7 | 52.8 | | | | |
| Mississippi | 115.0 | 107.8 | 112.1 | 70.3 | 117.5 | 108.6 | 92.0 | 99.9 | | 81.5 | | | | |
| White | 97.7 | 86.9 | 89.6 | 101.2 | 74.1 | 84.1 | 74.5 | 63.4 | | 86.9 | | | | |
| Colored | 131.1 | 127.2 | 128.5 | 132.7 | 147.0 | 127.2 | 108.1 | 128.5 | | 76.6 | | | | |
| Montana | | | | | | | | 68.7 | | | | | | |
| Nebraska | 64.8 | 52.7 | 57.0 | 61.0 | 61.8 | 58.9 | 51.8 | | | 44.3 | | | | |
| New Jersey | 125.5 | 110.6 | 104.4 | 102.6 | 101.3 | 85.7 | 78.0 | 89.8 | 99.5 | 91.5 | 90.8 | 94.7 | 101.1 | |
| New York ¹ | 129.1 | 122.2 | 124.1 | 111.0 | 103.4 | 91.0 | 99.3 | 94.7 | 102.8 | 100.6 | 101.8 | 108.0 | 116.9 | |
| Pennsylvania | 112.5 | 109.8 | 102.3 | 105.8 | 98.6 | 83.9 | 80.7 | 85.4 | 98.4 | 99.9 | 85.4 | 100.0 | 100.0 | |
| South Dakota | 27.8 | 26.8 | 31.1 | 35.1 | 36.3 | 28.5 | 51.9 | 32.8 | | 41.5 | | | | |
| Tennessee | 65.1 | 73.6 | 77.3 | 69.2 | 71.0 | 73.9 | 69.6 | 76.4 | 73.9 | | | | | |
| White | 67.8 | 64.7 | 67.3 | 62.5 | 69.8 | 57.9 | 60.2 | 64.5 | 60.2 | | | | | |
| Colored | 100.5 | 145.8 | 125.1 | 101.8 | 125.1 | 151.2 | 115.4 | 133.5 | 140.2 | | | | | |
| Virginia | 107.8 | 109.3 | 89.8 | 74.1 | 91.7 | 97.4 | 88.2 | 95.4 | | 89.6 | | | | |
| White | 99.4 | 99.9 | 79.7 | 67.0 | 81.0 | 85.5 | 72.7 | 78.4 | | 81.5 | | | | |
| Colored | 130.0 | 134.0 | 116.2 | 92.6 | 119.6 | 120.8 | 129.0 | 140.1 | 110.8 | | | | | |

PNEUMONIA (148-150)

| | | | | | | | | | | | | | |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | 17.4 | 13.9 | 23.8 | 23.9 | 29.0 | 12.4 | 25.2 | 23.2 | 18.3 | 21.1 | 14.5 | 17.0 | 17.8 |
| White | 14.0 | 13.3 | 17.4 | 19.6 | 20.3 | 8.4 | 20.3 | 13.8 | 12.6 | 19.6 | 13.1 | 17.0 | |
| Colored | 26.3 | 17.1 | 35.4 | 31.6 | 45.0 | 19.8 | 34.3 | 40.9 | 29.0 | 23.7 | 17.1 | 17.0 | |
| California | 6.0 | 9.3 | 12.8 | 10.3 | 7.7 | 11.4 | 9.6 | 6.7 | | 10.4 | | | |
| Connecticut | 16.7 | 10.0 | 4.4 | 5.0 | 12.6 | 8.6 | 8.6 | 3.7 | 8.6 | 9.5 | 11.9 | 7.6 | 13.9 |
| Georgia | 19.1 | 14.7 | 14.8 | 19.5 | 13.3 | 13.2 | 18.0 | | 18.7 | | | | |
| Indiana | 9.9 | 15.9 | 10.7 | 12.2 | 15.3 | 10.2 | 11.9 | 10.7 | 9.7 | 9.3 | 9.7 | 10.9 | 7.2 |
| Iowa | 9.7 | 13.1 | 10.5 | 8.2 | | 8.2 | 8.2 | 11.0 | 7.3 | 12.1 | | | |
| Kansas | 10.7 | 14.8 | 10.6 | 11.5 | 16.6 | 12.2 | 12.2 | 6.3 | | 9.9 | | | |
| Kentucky | 11.7 | 12.9 | | | | | | | | | | | |
| Louisiana | 11.4 | 22.9 | 25.6 | 21.1 | 16.8 | 21.7 | 25.4 | 25.0 | | 19.3 | | | |
| White | 10.3 | 15.8 | 25.1 | 16.8 | 10.6 | 12.1 | 17.7 | 16.4 | | 18.3 | | | |
| Colored | 13.3 | 36.0 | 26.5 | 29.1 | 28.3 | 39.4 | 39.4 | 40.7 | | 21.2 | | | |
| Maryland | | | | | | 11.7 | 14.6 | 7.5 | 7.3 | | | | |
| White | | | | | | 8.7 | 13.0 | 6.3 | 5.2 | | | | |
| Colored | | | | | | 27.3 | 22.8 | 14.1 | 18.2 | | | | |
| Michigan | 14.2 | 17.2 | 17.2 | 11.0 | 13.5 | 16.9 | 10.0 | 10.6 | 11.0 | 9.7 | | | |
| Minnesota | 8.7 | 9.1 | 8.5 | 5.2 | 7.2 | 4.8 | 5.2 | 4.5 | 2.9 | 5.6 | | | |
| Montana | | | | | | | | 8.9 | | | | | |
| Nebraska | 13.0 | 13.4 | 6.9 | 10.9 | 14.7 | 10.0 | 6.7 | | | 12.5 | | | |
| New Jersey | 8.9 | 10.2 | 10.5 | 10.2 | 8.9 | 9.2 | 10.8 | 8.9 | 8.0 | 12.6 | | | |
| New York ¹ | 11.4 | 12.4 | 4.1 | 11.2 | 8.5 | 8.3 | 6.8 | 8.8 | 8.5 | 7.6 | 9.9 | 6.8 | 9.0 |
| South Dakota | 14.8 | 13.4 | 15.6 | 6.7 | 6.9 | 13.4 | 11.7 | 8.6 | | 12.1 | | | |
| Tennessee | 12.5 | 17.4 | 20.9 | 16.0 | 8.3 | 17.4 | 15.5 | 13.1 | 12.2 | | | | |
| White | 8.2 | 15.3 | 20.0 | 13.6 | 8.8 | 15.3 | 13.1 | 13.5 | 7.4 | | | | |
| Colored | 33.5 | 27.5 | 25.5 | 27.5 | 5.7 | 27.5 | 27.5 | 11.4 | 35.7 | | | | |
| Virginia | 16.2 | 13.3 | 15.1 | 17.8 | 13.7 | 13.3 | 18.3 | 9.0 | 10.1 | | | | |
| White | 10.5 | 10.1 | 10.5 | 10.1 | 11.1 | 10.7 | 9.5 | 5.9 | 7.0 | | | | |
| Colored | 31.1 | 21.5 | 27.3 | 38.0 | 20.5 | 19.9 | 23.2 | 17.1 | 18.2 | | | | |

¹ Exclusive of New York City.

DEATH RATES IN A GROUP OF INSURED PERSONS

Rates for Principal Causes of Death for November, 1929

The accompanying table, taken from the Statistical Bulletin for December, 1929, issued by the Metropolitan Life Insurance Co., presents the mortality record of the industrial insurance department of the company for November and the cumulative death rates for the period January to November, inclusive, for the years 1929 and 1928, for the principal causes of death. The rates are based on a strength of approximately 19,000,000 insured persons in the United States and Canada.

It is stated that the death rate in this group of persons was lower in November, 1929, than in any previous November on record. More or less noteworthy declines as compared with November, 1928, are shown for typhoid fever, measles, influenza, tuberculosis, cerebral hemorrhage, heart disease, respiratory conditions other than pneumonia, diarrheal complaints, Bright's disease, puerperal diseases, homicides, and accidents. On the other hand, somewhat higher death rates were registered for scarlet fever, whooping cough, diphtheria, cancer, and pneumonia, and there was an increase of 17.2 per cent in the mortality from automobile accidents. The November death rate for all causes combined was 5.4 per cent below that for October.

The year-to-date death rate at the end of November was 9.2 per 1,000. This is practically the same as the death rate for the corresponding period of last year. Among the policyholders living west of the Rocky Mountains, the cumulative death rate was 6.7 per 1,000, while for the remainder of the United States it was 9.4. These figures are identical with those recorded for the like period of 1928.

The tuberculosis death rate in this group has been lower this year than ever before, and it is stated that new minimums will also be established for diphtheria, puerperal diseases, and, in all probability, for typhoid fever.

Death rates (annual basis) per 100,000 for principal causes of death, November, 1929

[Industrial department, Metropolitan Life Insurance Co.]

| Cause of death | Death rate per 100,000 lives exposed ¹ | | | | |
|---|---|---------------|----------------|---------------------------------|-------|
| | November, 1929 | October, 1929 | November, 1928 | Cumulative, January to November | |
| | | | | 1929 | 1928 |
| Total, all causes..... | 790.7 | 836.1 | 830.8 | 920.6 | 915.7 |
| Typhoid fever..... | 2.4 | 3.6 | 2.9 | 2.3 | 2.7 |
| Measles..... | .4 | .4 | .9 | 3.0 | 5.5 |
| Scarlet fever..... | 1.8 | 1.3 | 1.5 | 2.5 | 2.7 |
| Whooping cough..... | 3.7 | 3.8 | 3.0 | 5.8 | 5.6 |
| Diphtheria..... | 11.8 | 8.3 | 9.9 | 8.4 | 9.6 |
| Infuzna..... | 13.1 | 9.1 | 14.2 | 42.2 | 22.0 |
| Tuberculosis (all forms)..... | 73.2 | 79.7 | 76.3 | 85.9 | 91.1 |
| Tuberculosis of respiratory system..... | 65.4 | 68.9 | 66.3 | 75.9 | 79.7 |
| Cancer..... | 73.8 | 70.6 | 72.3 | 75.8 | 75.2 |
| Diabetes mellitus..... | 16.6 | 16.7 | 16.6 | 18.2 | 17.5 |
| Cerebral hemorrhage..... | 50.6 | 55.5 | 52.2 | 56.2 | 56.1 |
| Organic diseases of heart..... | 126.1 | 128.1 | 138.6 | 143.8 | 142.0 |
| Pneumonia (all forms)..... | 64.1 | 53.1 | 63.7 | 87.3 | 88.6 |
| Other respiratory diseases..... | 9.2 | 10.4 | 17.0 | 11.8 | 13.3 |
| Diarrhea and enteritis..... | 15.0 | 31.6 | 19.3 | 20.9 | 24.7 |
| Bright's disease (chronic nephritis)..... | 63.1 | 66.8 | 65.8 | 68.3 | 70.3 |
| Puerperal state..... | 11.1 | 10.4 | 11.8 | 13.1 | 14.0 |
| Suicides..... | 7.7 | 8.4 | 7.7 | 8.4 | 8.3 |
| Homicides..... | 5.3 | 7.6 | 6.7 | 6.3 | 6.5 |
| Other external causes (excluding suicides and homicides)..... | 61.7 | 65.7 | 64.0 | 63.4 | 62.8 |
| Traumatism by automobiles..... | 23.9 | 25.7 | 20.4 | 19.9 | 17.8 |
| All other causes..... | 179.8 | 199.1 | 186.5 | 196.9 | 197.0 |

¹ All figures include infants insured under 1 year of age.

DEATHS DURING WEEK ENDED JANUARY 11, 1930

Summary of information received by telegraph from industrial insurance companies for the week ended January 11, 1930, and corresponding week of 1929. (From the Weekly Health Index, January 16, 1930, issued by the Bureau of the Census, Department of Commerce)

| | Week ended Jan 11, 1930 | Corresponding week, 1929 |
|--|----------------------------|-----------------------------|
| Policies in force..... | 75, 421, 100 | 72, 792, 965 |
| Number of death claims..... | 16, 253 | 19, 612 |
| Death claims per 1,000 policies in force, annual rate..... | 11.2 | 14.0 |

Deaths from all causes in certain large cities of the United States during the week ended January 11, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, January 15, 1930, issued by the Bureau of the Census, Department of Commerce)

| City | Week ended Jan. 11, 1930 | | Annual death rate per 1,000, corresponding week, 1929 | Deaths under 1 year | | Infant mortality rate, week ended Jan. 11, 1930 ² |
|--------------------------|--------------------------|-------------------------|---|--------------------------|--------------------------|--|
| | Total deaths | Death rate ¹ | | Week ended Jan. 11, 1930 | Corresponding week, 1929 | |
| Total (65 cities) | 7,588 | 13.3 | 20.5 | 721 | 1,047 | 164 |
| Akron | 32 | | | 6 | 9 | 55 |
| Albany | 43 | 18.6 | 21.7 | 1 | 4 | 22 |
| Atlanta | 83 | 17.0 | 23.1 | 4 | 5 | 42 |
| White | 43 | | | 2 | 3 | 63 |
| Colored | 40 | (⁹) | (⁹) | 2 | 2 | 32 |
| Baltimore | 244 | 15.3 | 24.9 | 19 | 34 | 65 |
| White | 185 | | | 11 | 20 | 47 |
| Colored | 59 | (⁹) | (⁹) | 8 | 14 | 129 |
| Birmingham | 50 | 11.7 | 61.4 | 6 | 21 | 56 |
| White | 21 | | | 4 | 11 | 62 |
| Colored | 29 | (⁹) | (⁹) | 2 | 10 | 47 |
| Boston | 262 | 17.1 | 19.3 | 36 | 26 | 101 |
| Bridgeport | 43 | | | 6 | 3 | 103 |
| Buffalo | 160 | 15.0 | 25.1 | 17 | 26 | 76 |
| Cambridge | 35 | 14.5 | 16.2 | 4 | 4 | 74 |
| Camden | 36 | 13.9 | 23.5 | 7 | 7 | 127 |
| Camden | 17 | 7.6 | 21.0 | 3 | 5 | 74 |
| Chicago | 768 | 12.7 | 17.4 | 79 | 111 | 70 |
| Cincinnati | 134 | | | 9 | 25 | 63 |
| Cleveland | 196 | 10.1 | 21.5 | 19 | 39 | 57 |
| Columbus | 71 | 12.4 | 29.5 | 2 | 16 | 20 |
| Dallas | 55 | 13.2 | 25.4 | 7 | 11 | |
| White | 43 | | | 6 | 8 | |
| Colored | 12 | (⁹) | (⁹) | 1 | 3 | |
| Dayton | 37 | 10.5 | 25.2 | 6 | 8 | 89 |
| Denver | 79 | 14.0 | 19.3 | 2 | 11 | 21 |
| Des Moines | 43 | 14.8 | 13.7 | 1 | 0 | 17 |
| Detroit | 304 | 11.5 | 20.6 | 55 | 81 | 85 |
| Duluth | 22 | 9.8 | 10.7 | 1 | 1 | 27 |
| El Paso | 52 | 23.0 | 23.0 | 8 | 9 | |
| Erie | 29 | | | 3 | 3 | 64 |
| Fall River | 25 | 9.7 | 20.2 | 5 | 8 | 114 |
| Flint | 27 | 9.5 | 23.1 | 3 | 5 | 35 |
| Fort Worth | 38 | 11.6 | 24.8 | 3 | 8 | |
| White | 36 | | | 3 | 6 | |
| Colored | 2 | (⁹) | (⁹) | 0 | 2 | |
| Grand Rapids | 32 | 10.2 | 14.0 | 2 | 3 | 30 |
| Houston | 59 | | | 5 | 8 | |
| White | 39 | | | 2 | 6 | |
| Colored | 20 | (⁹) | (⁹) | 3 | 2 | |
| Indianapolis | 128 | 17.5 | 17.5 | 9 | 14 | 67 |
| White | 98 | | | 8 | 13 | 69 |
| Colored | 30 | (⁹) | (⁹) | 1 | 1 | 54 |
| Jersey City | 78 | 12.5 | 18.9 | 13 | 10 | 113 |
| Kansas City, Kans. | 32 | 14.1 | 15.9 | 2 | 6 | 47 |
| White | 27 | | | 2 | 3 | 53 |
| Colored | 5 | (⁹) | (⁹) | 0 | 3 | 0 |
| Kansas City, Mo. | 104 | 13.9 | 13.2 | 12 | 11 | 93 |
| Knorville | 32 | 15.8 | 27.7 | 4 | 8 | 94 |
| White | 26 | | | 3 | 8 | 78 |
| Colored | 6 | (⁹) | (⁹) | 1 | 0 | 247 |
| Los Angeles | 313 | | | 38 | 26 | 116 |
| Louisville | 49 | 7.8 | 20.4 | 2 | 12 | 17 |
| White | 34 | | | 0 | 9 | 0 |
| Colored | 15 | (⁹) | (⁹) | 2 | 3 | 145 |
| Lowell | 20 | | | 2 | 3 | 47 |
| Lynn | 23 | 11.4 | 11.9 | 2 | 0 | 51 |
| Memphis | 73 | 20.0 | 38.4 | 3 | 13 | 36 |
| White | 42 | | | 3 | 7 | 55 |
| Colored | 31 | (⁹) | (⁹) | 0 | 6 | 0 |
| Milwaukee | 114 | 10.9 | 20.1 | 19 | 23 | 96 |
| Minneapolis | 112 | 12.8 | 20.4 | 6 | 14 | 39 |
| Nashville | 45 | 16.8 | 43.3 | 5 | 7 | 77 |
| White | 31 | | | 2 | 3 | 41 |
| Colored | 14 | (⁹) | (⁹) | 3 | 4 | 190 |
| New Bedford | 26 | | | 0 | 6 | 0 |
| New Haven | 44 | 12.2 | 13.3 | 4 | 2 | 78 |
| New Orleans | 173 | 21.0 | 32.3 | 22 | 15 | 127 |
| White | 108 | | | 8 | 5 | 71 |
| Colored | 65 | (⁹) | (⁹) | 14 | 10 | 235 |

See footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended January 11, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929.—Continued

| City | Week ended Jan. 11, 1930 | | Annual death rate per 1,000, corresponding week, 1929 | Deaths under 1 year | | Infant mortality rate, week ended Jan. 11, 1930 |
|-----------------------------|--------------------------|------------------|---|--------------------------|--------------------------|---|
| | Total deaths | Death rate | | Week ended Jan. 11, 1930 | Corresponding week, 1929 | |
| New York | 1,575 | 13.6 | 18.5 | 141 | 194 | 59 |
| Bronx Borough | 208 | 11.4 | 15.2 | 16 | 32 | 38 |
| Brooklyn Borough | 537 | 12.1 | 16.9 | 56 | 63 | 60 |
| Manhattan Borough | 625 | 18.6 | 24.9 | 52 | 67 | 85 |
| Queens Borough | 158 | 9.6 | 13.7 | 17 | 30 | 49 |
| Richmond Borough | 47 | 16.3 | 16.3 | 0 | 2 | 0 |
| Newark, N. J. | 127 | 14.0 | 21.6 | 10 | 21 | 52 |
| Oakland | 63 | 12.0 | 12.9 | 8 | 2 | 96 |
| Oklahoma City | 36 | | | 1 | 6 | 20 |
| Omaha | 61 | 14.3 | 12.9 | 2 | 7 | 23 |
| Paterson | 37 | 13.3 | 24.1 | 8 | 1 | 139 |
| Philadelphia | 468 | 11.8 | 20.8 | 41 | 66 | 61 |
| Pittsburgh | 200 | 15.5 | 29.9 | 21 | 33 | 77 |
| Portland, Oreg. | 85 | | | 3 | 1 | 37 |
| Providence | 77 | 14.0 | 12.9 | 8 | 8 | 73 |
| Richmond | 56 | 15.0 | 29.8 | 10 | 1 | 148 |
| White | 29 | | | 4 | 0 | 90 |
| Colored | 27 | (¹) | (¹) | 6 | 1 | 262 |
| Rochester | 62 | 9.9 | 17.5 | 2 | 11 | 18 |
| St. Louis | 211 | 13.0 | 22.7 | 12 | 24 | 39 |
| St. Paul | 55 | | | 4 | 4 | 41 |
| Salt Lake City ⁴ | 36 | 13.6 | 13.6 | 2 | 0 | 31 |
| San Antonio | 75 | 17.9 | 20.8 | 11 | 12 | |
| San Diego | 47 | | | 1 | 2 | 21 |
| San Francisco | 193 | 17.2 | 16.7 | 2 | 6 | 14 |
| Schenectady | 23 | 12.9 | 21.2 | 0 | 3 | 0 |
| Seattle | 62 | 8.4 | 15.6 | 3 | 4 | 30 |
| Somerville | 15 | 7.6 | 9.6 | 2 | 4 | 65 |
| Spokane | 26 | 12.4 | 25.8 | 1 | 8 | 26 |
| Springfield, Mass. | 32 | 11.1 | 18.1 | 2 | 6 | 32 |
| Syracuse | 56 | 14.7 | 22.5 | 6 | 2 | 74 |
| Tacoma | 24 | 11.3 | 14.2 | 2 | 2 | 51 |
| Toledo | 82 | 13.7 | 21.0 | 5 | 8 | 46 |
| Trenton | 49 | 18.4 | 25.9 | 4 | 7 | 74 |
| Utica | 20 | 10.0 | 25.0 | 1 | 2 | 28 |
| Washington, D. C. | 143 | 13.5 | 22.7 | 10 | 20 | 58 |
| White | 93 | | | 6 | 8 | 52 |
| Colored | 50 | (¹) | (¹) | 4 | 12 | 71 |
| Waterbury | 20 | | | 3 | 6 | 77 |
| Wilmington, Del. | 34 | 13.8 | 14.2 | 4 | 5 | 90 |
| Worcester | 45 | 11.9 | 13.5 | 5 | 4 | 65 |
| Yonkers | 20 | 8.6 | 18.5 | 2 | 1 | 48 |
| Youngstown | 30 | 9.0 | 23.0 | 3 | 7 | 47 |

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 73 cities.

⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 11, 1930, and January 12, 1929

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 11, 1930, and January 12, 1929

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 |
| New England States: | | | | | | | | |
| Maine..... | 4 | 1 | 8 | 722 | 216 | 0 | 0 | |
| New Hampshire..... | 3 | ----- | 8 | 75 | 27 | 38 | 0 | |
| Vermont..... | ----- | ----- | ----- | 373 | 22 | 9 | 0 | |
| Massachusetts..... | 121 | 117 | 10 | 1,976 | 279 | 792 | 1 | |
| Rhode Island..... | 16 | 6 | 6 | 208 | ----- | 72 | 0 | |
| Connecticut..... | 24 | 30 | 12 | 2,079 | 62 | 390 | 1 | |
| Middle Atlantic States: | | | | | | | | |
| New York..... | 164 | 283 | 134 | 12,649 | 367 | 946 | 16 | |
| New Jersey..... | 114 | 164 | 26 | 2,474 | 219 | 189 | 9 | |
| Pennsylvania..... | 169 | 162 | ----- | ----- | 510 | 913 | 10 | |
| East North Central States: | | | | | | | | |
| Ohio..... | 74 | 64 | 34 | 4,778 | 494 | 655 | 9 | |
| Indiana..... | 38 | 53 | ----- | 966 | 96 | 134 | 20 | |
| Illinois..... | 181 | 161 | 20 | 1,240 | 367 | 339 | 14 | |
| Michigan..... | 101 | 94 | 7 | 3,394 | 269 | 94 | 18 | |
| Wisconsin..... | 20 | 20 | 102 | 3,830 | 566 | 191 | 0 | |
| West North Central States: | | | | | | | | |
| Minnesota..... | 34 | 17 | ----- | 252 | 186 | 121 | 4 | |
| Iowa..... | 15 | 16 | 1 | 103 | 253 | ----- | 1 | |
| Missouri..... | 41 | 72 | 46 | 3,123 | 34 | 112 | 8 | |
| North Dakota..... | 8 | 4 | ----- | 546 | 17 | 10 | 3 | |
| South Dakota..... | 1 | ----- | ----- | 264 | 41 | 31 | 3 | |
| Nebraska..... | 12 | 17 | 10 | 383 | 313 | 13 | 4 | |
| Kansas..... | 24 | 21 | 5 | 1,697 | 130 | 18 | 3 | |
| South Atlantic States: | | | | | | | | |
| Delaware..... | 10 | 3 | ----- | 155 | ----- | 41 | 0 | |
| Maryland..... | 25 | 31 | 54 | 5,816 | 15 | 46 | 1 | |
| District of Columbia..... | 8 | 8 | ----- | 567 | 1 | 2 | 0 | |
| West Virginia..... | 13 | 21 | 15 | 13,711 | 103 | 141 | 3 | |
| North Carolina..... | 83 | 56 | 33 | ----- | 15 | 23 | 1 | |
| South Carolina..... | 31 | 20 | 1,133 | 6,421 | ----- | 5 | 6 | |
| Georgia..... | 20 | 8 | 158 | 7,729 | 93 | 69 | 1 | |
| Florida..... | 8 | 6 | 6 | 820 | 9 | 2 | 0 | |
| East South Central States: | | | | | | | | |
| Kentucky..... | 8 | 7 | ----- | 6,170 | 60 | ----- | 2 | |
| Tennessee..... | 21 | 26 | 147 | 12,599 | 88 | 28 | 40 | |
| Alabama..... | 25 | 34 | 204 | 19,967 | 24 | 60 | 2 | |
| Mississippi..... | 20 | 9 | ----- | 5,030 | ----- | ----- | 7 | |
| West South Central States: | | | | | | | | |
| Arkansas..... | 9 | 8 | 120 | 5,289 | 2 | 12 | 5 | |
| Louisiana..... | 39 | 20 | 35 | 6,163 | 49 | 33 | 6 | |
| Oklahoma..... | 43 | 41 | 164 | 9,296 | 45 | 10 | 2 | |
| Texas..... | 102 | 44 | 87 | 6,695 | 6 | 89 | 0 | |

¹ New York City only.

² Week ended Friday.

³ Figures for 1930 are exclusive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 11, 1930, and January 12, 1929—Continued

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 |
| Mountain States: | | | | | | | | |
| Montana..... | 1 | 4 | ----- | 333 | 29 | 72 | 3 | 4 |
| Idaho..... | ----- | 1 | ----- | 9 | 21 | 5 | 1 | 0 |
| Wyoming..... | 1 | 4 | ----- | 311 | 3 | 3 | 1 | 2 |
| Colorado..... | 10 | 6 | 2 | 117 | 69 | 13 | 1 | 6 |
| New Mexico..... | 8 | 8 | ----- | 125 | 9 | ----- | 0 | 2 |
| Arizona..... | 16 | 10 | 30 | 10 | ----- | 1 | 25 | 7 |
| Utah ¹ | 1 | 7 | 4 | 14 | 88 | ----- | 6 | 5 |
| Pacific States: | | | | | | | | |
| Washington..... | 9 | 12 | 4 | 151 | 47 | 83 | 3 | 9 |
| Oregon..... | 10 | 21 | 46 | 741 | 15 | 49 | 0 | 1 |
| California..... | 60 | 61 | 76 | 976 | 442 | 26 | 11 | 19 |
| | | | | | | | | |
| Division and State | Pollomyelitis | | Scarlet fever | | Smallpox | | Typhoid fever | |
| | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 | Week ended Jan. 11, 1930 | Week ended Jan. 12, 1929 |
| New England States: | | | | | | | | |
| Maine..... | 0 | 2 | 45 | 22 | 0 | 1 | 1 | 0 |
| New Hampshire..... | 0 | 0 | 16 | 7 | 0 | 0 | 0 | 0 |
| Vermont..... | 0 | 0 | 12 | 13 | 1 | 1 | 0 | 0 |
| Massachusetts..... | 1 | 1 | 349 | 262 | 0 | 0 | 4 | 2 |
| Rhode Island..... | 0 | 0 | 35 | 19 | 0 | 0 | 0 | 0 |
| Connecticut..... | 0 | 0 | 129 | 50 | 0 | 0 | 0 | 0 |
| Middle Atlantic States: | | | | | | | | |
| New York..... | 1 | 0 | 492 | 505 | 13 | 1 | 11 | 15 |
| New Jersey..... | 0 | 2 | 232 | 131 | 0 | 0 | 3 | 2 |
| Pennsylvania..... | 1 | 0 | 466 | 261 | 0 | 0 | 17 | 5 |
| East North Central States: | | | | | | | | |
| Ohio..... | 0 | 0 | 279 | 251 | 159 | 17 | 6 | 4 |
| Indiana..... | 0 | 0 | 177 | 116 | 205 | 52 | 4 | 0 |
| Illinois..... | 0 | 2 | 567 | 299 | 158 | 100 | 10 | 4 |
| Michigan..... | 0 | 2 | 321 | 277 | 70 | 26 | 0 | 1 |
| Wisconsin..... | 1 | 0 | 138 | 123 | 43 | 36 | 2 | 3 |
| West North Central States: | | | | | | | | |
| Minnesota..... | 0 | 0 | 101 | 114 | 10 | 2 | 2 | 0 |
| Iowa..... | 0 | 1 | 73 | 114 | 121 | 11 | 1 | 0 |
| Missouri..... | 0 | 0 | 41 | 84 | 37 | 44 | 5 | 1 |
| North Dakota..... | 0 | 0 | 49 | 24 | 34 | 5 | 0 | 1 |
| South Dakota..... | 0 | 0 | 16 | 33 | 30 | 28 | 0 | 2 |
| Nebraska..... | 1 | 0 | 60 | 60 | 140 | 26 | 0 | 1 |
| Kansas..... | 0 | 0 | 118 | 106 | 52 | 12 | 2 | 2 |
| South Atlantic States: | | | | | | | | |
| Delaware..... | 0 | 0 | 22 | 2 | 0 | 0 | 0 | 1 |
| Maryland ¹ | 2 | 0 | 102 | 62 | 0 | 1 | 5 | 3 |
| District of Columbia..... | 0 | 0 | 19 | 15 | 0 | 0 | 0 | 0 |
| West Virginia..... | 1 | 0 | 52 | 40 | 23 | 16 | 10 | 6 |
| North Carolina..... | 0 | 0 | 96 | 53 | 33 | 16 | 0 | 0 |
| South Carolina..... | 0 | 2 | 27 | 13 | 0 | 0 | 9 | 5 |
| Georgia..... | 0 | 0 | 14 | 25 | 0 | 0 | 6 | 3 |
| Florida..... | 0 | 0 | 14 | 10 | 0 | 0 | 1 | 2 |
| East South Central States: | | | | | | | | |
| Kentucky..... | 0 | 0 | 69 | 0 | 23 | 17 | 0 | 2 |
| Tennessee..... | 1 | 0 | 45 | 29 | 6 | 0 | 7 | 3 |
| Alabama..... | 0 | 0 | 28 | 24 | 45 | 18 | 1 | 1 |
| Mississippi..... | 0 | 0 | 26 | 11 | 1 | 1 | 2 | 1 |
| West South Central States: | | | | | | | | |
| Arkansas..... | 0 | 0 | 21 | 27 | 12 | 1 | 7 | 12 |
| Louisiana..... | 0 | 0 | 24 | 34 | 12 | 11 | 14 | 6 |
| Oklahoma ² | 0 | 1 | 47 | 25 | 34 | 64 | 16 | 8 |
| Texas..... | 0 | 0 | 73 | 56 | 97 | 12 | 4 | 5 |
| Mountain States: | | | | | | | | |
| Montana..... | 0 | 0 | 46 | 52 | 9 | 13 | 1 | 2 |
| Idaho..... | 0 | 0 | 9 | 4 | 11 | 28 | 0 | 1 |
| Wyoming..... | 0 | 0 | 1 | 32 | 12 | 5 | 0 | 0 |
| Colorado..... | 0 | 0 | 36 | 6 | 25 | 5 | 0 | 1 |
| New Mexico..... | 2 | 0 | 7 | 6 | 2 | 0 | 1 | 1 |
| Arizona..... | 0 | 0 | 13 | 2 | 34 | 8 | 2 | 0 |
| Utah ¹ | 0 | 0 | 17 | 12 | 0 | 10 | 0 | 0 |
| Pacific States: | | | | | | | | |
| Washington..... | 3 | 0 | 75 | 33 | 108 | 56 | 0 | 0 |
| Oregon..... | 0 | 1 | 39 | 23 | 15 | 56 | 3 | 0 |
| California..... | 3 | 2 | 299 | 264 | 77 | 87 | 7 | 1 |

¹ Week ended Friday.

² Figures for 1930 are exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

| State | Menin- gococ- cus menin- gitis | Diph- theria | Influ- enza | Ma- laria | Meas- les | Pellag- ra | Polio- mye- litis | Scarlet fever | Small- pox | Ty- phoid fever |
|---------------------------|--|-----------------|----------------|--------------|--------------|---------------|-------------------------|------------------|---------------|-----------------------|
| <i>November, 1929</i> | | | | | | | | | | |
| Kansas..... | 14 | 166 | 11 | ----- | 225 | ----- | 1 | 381 | 164 | 20 |
| South Carolina..... | ----- | 464 | 3, 127 | 2, 483 | 28 | 390 | 7 | 160 | 4 | 88 |
| <i>December, 1929</i> | | | | | | | | | | |
| Arizona..... | 26 | 51 | 69 | ----- | 8 | 1 | 0 | 36 | 28 | 11 |
| Connecticut..... | 17 | 103 | 25 | ----- | 45 | ----- | 2 | 321 | 0 | 8 |
| District of Columbia..... | ----- | 47 | 3 | ----- | 3 | ----- | 0 | 75 | 0 | 2 |
| Indiana..... | 56 | 123 | 129 | ----- | 92 | ----- | 3 | 521 | 653 | 8 |
| Nebraska..... | 9 | 88 | 15 | ----- | 568 | ----- | 3 | 219 | 195 | 1 |
| North Dakota..... | 12 | 22 | 7 | ----- | 132 | ----- | 1 | 145 | 53 | 2 |

November, 1929

| | |
|-------------------------|-----|
| Chicken pox: | |
| Kansas..... | 542 |
| South Carolina..... | 136 |
| Dengue: | |
| South Carolina..... | 9 |
| Diarrhea: | |
| South Carolina..... | 501 |
| German measles: | |
| Kansas..... | 7 |
| Hookworm disease: | |
| South Carolina..... | 131 |
| Impetigo contagiosa: | |
| Kansas..... | 4 |
| Lethargic encephalitis: | |
| Kansas..... | 1 |
| South Carolina..... | 4 |
| Mumps: | |
| Kansas..... | 160 |
| South Carolina..... | 44 |
| Ophthalmia neonatorum: | |
| South Carolina..... | 15 |
| Paratyphoid fever: | |
| Kansas..... | 1 |
| South Carolina..... | 7 |
| Ptomaine poisoning: | |
| Kansas..... | 1 |
| Pyellitis: | |
| South Carolina..... | 1 |
| Rabies in animals: | |
| South Carolina..... | 15 |
| Scabies: | |
| Kansas..... | 19 |
| Septic sore throat: | |
| South Carolina..... | 4 |
| Tularaemia: | |
| Kansas..... | 3 |
| South Carolina..... | 2 |
| Typhus fever: | |
| South Carolina..... | 3 |
| Undulant fever: | |
| Kansas..... | 6 |
| South Carolina..... | 2 |
| Vincent's angina: | |
| Kansas..... | 1 |
| South Carolina..... | 2 |

November, 1929—Continued

| | |
|-----------------------------|-----|
| Whooping cough: | |
| Kansas..... | 199 |
| South Carolina..... | 463 |
| <i>December, 1929</i> | |
| Chicken pox: | |
| Arizona..... | 93 |
| Connecticut..... | 706 |
| District of Columbia..... | 95 |
| Indiana..... | 548 |
| Nebraska..... | 187 |
| North Dakota..... | 151 |
| Conjunctivitis, infectious: | |
| Connecticut..... | 4 |
| Dysentery: | |
| Arizona..... | 4 |
| German measles: | |
| Connecticut..... | 37 |
| Lethargic encephalitis: | |
| District of Columbia..... | 1 |
| Mumps: | |
| Arizona..... | 333 |
| Connecticut..... | 114 |
| Indiana..... | 21 |
| Nebraska..... | 68 |
| North Dakota..... | 53 |
| Paratyphoid fever: | |
| Connecticut..... | 2 |
| Nebraska..... | 1 |
| Rabies in animals: | |
| Connecticut..... | 4 |
| Rabies in man: | |
| Arizona..... | 1 |
| Scabies: | |
| North Dakota..... | 13 |
| Septic sore throat: | |
| Connecticut..... | 5 |
| Nebraska..... | 26 |
| Trachoma: | |
| Arizona..... | 53 |
| Connecticut..... | 1 |
| Trichinosis: | |
| Connecticut..... | 2 |

December, 1929—Continued

| | |
|---------------------------|----|
| Tularaemia: | |
| Arizona..... | 1 |
| District of Columbia..... | 7 |
| Indiana..... | 7 |
| Undulant fever: | |
| Arizona..... | 2 |
| Nebraska..... | 3 |
| Vincent's angina: | |
| North Dakota..... | 18 |

December, 1929—Continued

| | |
|---------------------------|-----|
| Whooping cough: | |
| Arizona..... | 30 |
| Connecticut..... | 189 |
| District of Columbia..... | 19 |
| Indiana..... | 74 |
| Nebraska..... | 73 |
| North Dakota..... | 17 |

Number of Cases of Certain Communicable Diseases Reported for the Month of October, 1929, by State Health Officers

| State | Chick- en pox | Diph- theria | Measles | Mumps | Scarlet fever | Small- pox | Tuber- culosis | Ty- phoid and paraty- phoid fever | Whoop- ing cough |
|-------------------------------|---------------------|-----------------|---------|-------|------------------|---------------|-------------------|--|------------------------|
| Maine..... | 133 | 10 | 77 | 66 | 125 | 0 | 34 | 13 | 62 |
| New Hampshire..... | 8 | 8 | ----- | ----- | 68 | 0 | ----- | 3 | ----- |
| Vermont..... | 140 | 10 | 3 | 5 | 20 | 43 | 20 | 0 | 114 |
| Massachusetts..... | 501 | 436 | 294 | 222 | 631 | 0 | 486 | 37 | 462 |
| Rhode Island..... | 9 | 53 | 4 | 3 | 48 | 0 | 45 | 8 | 16 |
| Connecticut..... | 241 | 99 | 11 | 67 | 118 | 0 | 117 | 20 | 140 |
| New York..... | 924 | 553 | 547 | 526 | 576 | 72 | 1,930 | 167 | 1,084 |
| New Jersey..... | 449 | 470 | 64 | ----- | 287 | 0 | 465 | 39 | 447 |
| Pennsylvania..... | 1,682 | 820 | 987 | 464 | 987 | 10 | 670 | 226 | 1,311 |
| Ohio..... | 1,150 | 407 | 576 | 162 | 831 | 187 | 691 | 155 | 546 |
| Indiana..... | 124 | 133 | 36 | 15 | 240 | 86 | 134 | 32 | 55 |
| Illinois..... | 1,071 | 823 | 387 | 202 | 1,282 | 339 | 920 | 148 | 807 |
| Michigan..... | 776 | 463 | 454 | 181 | 702 | 159 | 766 | 49 | 350 |
| Wisconsin..... | 1,013 | 106 | 825 | 146 | 325 | 63 | 189 | 53 | 637 |
| Minnesota..... | 404 | 148 | 118 | ----- | 350 | 15 | 247 | 25 | 80 |
| Iowa..... | ----- | 53 | ----- | ----- | 221 | 100 | ----- | 16 | ----- |
| Missouri..... | 169 | 242 | 74 | 14 | 282 | 48 | 197 | 58 | 163 |
| North Dakota..... | 90 | 29 | 27 | 19 | 62 | 30 | 21 | 11 | 16 |
| South Dakota..... | 42 | 21 | 7 | 17 | 47 | 145 | 4 | 22 | 22 |
| Nebraska..... | 118 | 130 | 92 | 38 | 89 | 32 | 17 | 6 | 95 |
| Kansas..... | 231 | 182 | 200 | 120 | 341 | 51 | 126 | 20 | 123 |
| Delaware..... | 62 | 11 | 3 | ----- | 16 | 0 | 19 | 4 | 24 |
| Maryland..... | 126 | 108 | 25 | 28 | 224 | 0 | 255 | 101 | 222 |
| District of Columbia..... | 25 | 62 | 8 | ----- | 36 | 0 | 81 | 6 | 5 |
| Virginia..... | 203 | 589 | 111 | ----- | 427 | 168 | 160 | 82 | 733 |
| West Virginia..... | 68 | 129 | 70 | ----- | 225 | 19 | 109 | 113 | 78 |
| North Carolina..... | 156 | 1,192 | 10 | ----- | 602 | 28 | ----- | 84 | 560 |
| South Carolina..... | 51 | 525 | 13 | 42 | 128 | 0 | 146 | 122 | 333 |
| Georgia..... | 12 | 143 | 19 | 19 | 189 | 0 | 70 | 87 | 90 |
| Florida..... | 5 | 65 | 7 | 32 | 33 | 1 | 27 | 10 | 18 |
| Kentucky ¹ | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Tennessee..... | 24 | 280 | 34 | 6 | 288 | 11 | 239 | 137 | 68 |
| Alabama..... | 14 | 300 | 34 | 6 | 257 | 6 | 209 | 66 | 68 |
| Mississippi..... | 244 | 523 | 74 | 100 | 161 | 1 | 201 | 93 | 574 |
| Arkansas..... | 28 | 110 | 5 | 33 | 114 | 4 | 121 | 116 | 31 |
| Louisiana..... | 7 | 171 | 6 | ----- | 97 | 0 | 158 | 60 | 7 |
| Oklahoma ² | 16 | 306 | 95 | ----- | 160 | 48 | 45 | 130 | 30 |
| Texas ² | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Montana..... | 103 | 10 | 512 | 180 | 95 | 38 | 20 | 116 | 8 |
| Idaho..... | 63 | 11 | 142 | 109 | 46 | 25 | 16 | 1 | 23 |
| Wyoming..... | 13 | 3 | 1 | 2 | 13 | 4 | 12 | 6 | 6 |
| Colorado..... | 179 | 31 | 15 | 19 | 68 | 33 | 125 | 21 | 60 |
| New Mexico ² | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Arizona..... | 15 | 69 | 6 | 98 | 30 | 7 | 77 | 19 | 59 |
| Utah ² | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Nevada..... | ----- | ----- | ----- | ----- | ----- | ----- | 4 | ----- | ----- |
| Washington..... | 488 | 91 | 132 | 230 | 175 | 119 | 149 | 60 | 113 |
| Oregon..... | 65 | 41 | 49 | 57 | 62 | 86 | 60 | 17 | 19 |
| California..... | 800 | 304 | 248 | 1,132 | 768 | 121 | 956 | 70 | 491 |

¹ Pulmonary.

² Reports received weekly.

³ Exclusive of Oklahoma City and Tulsa.

**Case Rates per 1,000 Population (Annual Basis) for the Month of
October, 1929**

| State | Chick- en pox | Diph- theria | Measles | Mumps | Scarlet fever | Small- pox | Tuber- culosis | Ty- phoid and paraty- phoid fever | Whoop- ing cough |
|-------------------------------|------------------|-----------------|---------|-------|------------------|---------------|-------------------|--|------------------------|
| Maine..... | 1.96 | 0.15 | 1.14 | 0.98 | 1.85 | 0 | 0.50 | 0.19 | 0.92 |
| New Hampshire..... | | .21 | | | 1.75 | 0 | | .08 | |
| Vermont..... | 4.68 | .33 | .10 | .17 | .67 | 1.44 | .67 | 0 | 3.81 |
| Massachusetts..... | 1.36 | 1.18 | .80 | .60 | 1.71 | 0 | 1.32 | .10 | 1.25 |
| Rhode Island..... | .15 | .86 | .06 | .05 | .78 | 0 | .73 | .13 | .26 |
| Connecticut..... | 1.67 | .69 | .08 | .46 | .82 | 0 | .81 | .14 | .97 |
| New York..... | .93 | .56 | .55 | .53 | .58 | .07 | 1.95 | .17 | 1.09 |
| New Jersey..... | 1.36 | 1.42 | .79 | | .87 | 0 | 1.41 | .12 | 1.35 |
| Pennsylvania..... | 1.98 | .97 | 1.16 | .55 | 1.16 | .01 | .79 | .27 | 1.55 |
| Ohio..... | 1.95 | .69 | .98 | .27 | 1.41 | .32 | 1.17 | .26 | .93 |
| Indiana..... | .46 | .49 | .13 | .06 | .88 | .32 | .49 | .12 | .20 |
| Illinois..... | 1.68 | 1.29 | .61 | .32 | 1.98 | .53 | 1.45 | .23 | 1.27 |
| Michigan..... | 1.95 | 1.16 | 1.14 | .45 | 1.76 | .40 | 1.92 | .12 | .88 |
| Wisconsin..... | 3.99 | .42 | 3.25 | .58 | 1.28 | .25 | .74 | .21 | 2.51 |
| Minnesota..... | 1.72 | .63 | .50 | | 1.49 | .06 | 1.05 | .11 | .34 |
| Iowa..... | | .26 | | | 1.07 | .48 | | .08 | |
| Missouri..... | .56 | .81 | .25 | .05 | .94 | .16 | .66 | .19 | .54 |
| North Dakota..... | 1.65 | .53 | .50 | .35 | 1.14 | .55 | .39 | .20 | .29 |
| South Dakota..... | .69 | .35 | .12 | .28 | .78 | 2.40 | .07 | .36 | .36 |
| Nebraska..... | .98 | 1.08 | .76 | .32 | .74 | .27 | .14 | .05 | .79 |
| Kansas..... | 1.48 | 1.16 | 1.28 | .77 | 2.18 | .33 | .81 | .13 | .79 |
| Delaware..... | 2.50 | .53 | .14 | | .77 | 0 | 1.43 | .19 | 1.15 |
| Maryland..... | .91 | .78 | .18 | .20 | 1.61 | 0 | 1.84 | .73 | 1.60 |
| District of Columbia..... | .52 | 1.09 | .17 | | .75 | 0 | 1.69 | .13 | .10 |
| Virginia..... | .92 | 2.66 | .50 | | 1.93 | .76 | .72 | .37 | 3.31 |
| West Virginia..... | .46 | .87 | .47 | | 1.51 | .13 | .73 | .76 | .52 |
| North Carolina..... | .62 | 4.71 | .04 | | 2.38 | .11 | | .33 | 2.21 |
| South Carolina..... | .32 | 3.28 | .08 | .26 | .80 | 0 | .91 | .76 | 2.08 |
| Georgia..... | .04 | .52 | .04 | .07 | .69 | 0 | .25 | .32 | .33 |
| Florida..... | .04 | .52 | .06 | .26 | .27 | .01 | .22 | .08 | .15 |
| Kentucky ¹ | | | | | | | | | |
| Tennessee..... | .11 | 1.31 | .16 | .03 | 1.35 | .05 | 1.12 | .64 | .32 |
| Alabama..... | .06 | 1.36 | .15 | .03 | 1.17 | .03 | 1.36 | .30 | .31 |
| Mississippi..... | 1.60 | 3.44 | .49 | .66 | 1.06 | .01 | 1.32 | .61 | 3.77 |
| Arkansas..... | .17 | .66 | .03 | .20 | .68 | .02 | 1.13 | .70 | .19 |
| Louisiana..... | .04 | 1.02 | .04 | | .58 | 0 | .95 | .36 | .04 |
| Oklahoma ¹ | .09 | 1.66 | .51 | | .87 | .26 | .24 | .70 | .16 |
| Texas ² | | | | | | | | | |
| Montana..... | 2.21 | .21 | 10.98 | 3.86 | 2.04 | .82 | .43 | 2.49 | .17 |
| Idaho..... | 1.33 | .23 | 3.00 | 2.30 | .97 | .53 | .34 | .02 | .49 |
| Wyoming..... | .60 | .14 | .05 | .09 | .60 | .19 | 1.09 | .28 | .28 |
| Colorado..... | 1.91 | .33 | .16 | .20 | .72 | .35 | 1.33 | .22 | .64 |
| New Mexico ¹ | | | | | | | | | |
| Arizona..... | .36 | 1.66 | .14 | 2.36 | .72 | .17 | 1.85 | .46 | 1.42 |
| Utah ² | | | | | | | | | |
| Nevada..... | | | | | | | .61 | | |
| Washington..... | 3.56 | .66 | .96 | 1.68 | 1.28 | .87 | 1.09 | .44 | .83 |
| Oregon..... | .84 | .53 | .63 | .73 | .80 | .46 | .64 | .22 | .24 |
| California..... | 2.01 | .76 | .62 | 2.85 | 1.93 | .30 | 2.41 | .18 | 1.24 |

¹ Pulmonary.² Reports received weekly.³ Exclusive of Oklahoma City and Tulsa.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,910,000. The estimated population of the 89 cities reporting deaths is more than 30,320,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended January 4, 1930, and January 5, 1929

| | 1930 | 1929 | Estimated expectancy |
|---------------------------|-------|-------|----------------------|
| <i>Cases reported</i> | | | |
| Diphtheria: | | | |
| 45 States..... | 1,913 | 1,717 | |
| 96 cities..... | 717 | 896 | 1,105 |
| Measles: | | | |
| 42 States..... | 3,898 | 4,598 | |
| 96 cities..... | 798 | 1,162 | |
| Meningococcus meningitis: | | | |
| 45 States..... | 192 | 151 | |
| 96 cities..... | 87 | 87 | |
| Poliomyelitis: | | | |
| 46 States..... | 20 | 15 | |
| Scarlet fever: | | | |
| 45 States..... | 3,928 | 3,485 | |
| 96 cities..... | 1,529 | 1,176 | 1,378 |
| Smallpox: | | | |
| 45 States..... | 1,266 | 623 | |
| 96 cities..... | 122 | 21 | 50 |
| Typhoid fever: | | | |
| 45 States..... | 133 | 114 | |
| 96 cities..... | 15 | 22 | 105 |
| <i>Deaths reported</i> | | | |
| Influenza and pneumonia: | | | |
| 89 cities..... | 1,067 | 3,533 | |
| Smallpox: | | | |
| 89 cities..... | 0 | 0 | |

City reports for week ended January 4, 1930

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1921 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

| Division, State, and city | Population, July 1, 1928, estimated | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|---------------------------|-------------------------------------|-----------------------------|-----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | | Cases, estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| NEW ENGLAND | | | | | | | | | |
| Maine: | | | | | | | | | |
| Portland..... | 78,600 | 30 | 2 | 0 | 0 | 0 | 8 | 3 | |
| New Hampshire: | | | | | | | | | |
| Concord..... | (¹) | 0 | 0 | 0 | 0 | 2 | 0 | 0 | |
| Manchester..... | 85,700 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | |
| Vermont: | | | | | | | | | |
| Barre..... | (¹) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| Massachusetts: | | | | | | | | | |
| Boston..... | 799,200 | 81 | 41 | 36 | 3 | 1 | 30 | 53 | 33 |
| Fall River..... | 134,300 | 17 | 5 | 3 | 0 | 1 | 0 | 5 | |
| Springfield..... | 149,800 | 18 | 5 | 2 | 1 | 0 | 4 | 4 | |
| Worcester..... | 197,600 | 15 | 5 | 2 | 0 | 19 | 0 | 3 | |
| Rhode Island: | | | | | | | | | |
| Pawtucket..... | 73,100 | 19 | 1 | 3 | 0 | 1 | 0 | 1 | |
| Providence..... | 286,300 | 3 | 10 | 13 | 1 | 1 | 0 | 7 | |
| Connecticut: | | | | | | | | | |
| Bridgeport..... | (¹) | 1 | 7 | 1 | 1 | 0 | 0 | 4 | |
| Hartford..... | 172,300 | 6 | 8 | 1 | 2 | 0 | 1 | 7 | |
| New Haven..... | 187,900 | 32 | 2 | 0 | 0 | 0 | 3 | 6 | |

¹ No estimate of population made.

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Population, July 1, 1928, estimated | Chick- en pox, cases re- ported | Diphtheria | | Influenza | | Meas- les, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths re- ported |
|---------------------------|-------------------------------------|---|---|------------------------|------------------------|-------------------------|---|----------------------------------|--|
| | | | Cases, esti- mated expect- ancy | Cases re- ported | Cases re- ported | Deaths re- ported | | | |
| MIDDLE ATLANTIC | | | | | | | | | |
| New York: | | | | | | | | | |
| Buffalo..... | 555,800 | 27 | 18 | 11 | 0 | 4 | 3 | 19 | |
| New York..... | 6,017,500 | 187 | 217 | 98 | 20 | 14 | 37 | 0 | 246 |
| Rochester..... | 328,200 | 18 | 10 | 1 | 0 | 4 | 2 | 3 | |
| Syracuse..... | 199,300 | 18 | 6 | 0 | 0 | 0 | 28 | 7 | |
| New Jersey: | | | | | | | | | |
| Camden..... | 135,400 | 0 | 7 | 3 | 0 | 0 | 1 | 7 | |
| Newark..... | 473,600 | 63 | 21 | 24 | 16 | 0 | 51 | 12 | 18 |
| Trenton..... | 139,000 | 5 | 4 | 1 | 0 | 0 | 8 | 0 | 1 |
| Pennsylvania: | | | | | | | | | |
| Philadelphia..... | 2,064,200 | 102 | 82 | 29 | 8 | 6 | 23 | 24 | 58 |
| Pittsburgh..... | 673,800 | 46 | 23 | 12 | 3 | 0 | 33 | 3 | 14 |
| Reading..... | 115,400 | 22 | 4 | 1 | 0 | 1 | 0 | 3 | 5 |
| EAST NORTH CENTRAL | | | | | | | | | |
| Ohio: | | | | | | | | | |
| Cincinnati..... | 413,700 | 20 | 14 | 9 | 0 | 1 | 0 | 9 | |
| Cleveland..... | 1,010,300 | 133 | 41 | 18 | 9 | 2 | 6 | 3 | 30 |
| Columbus..... | 299,000 | 12 | 7 | 0 | 4 | 3 | 4 | 3 | 4 |
| Toledo..... | 313,290 | 91 | 12 | 3 | 1 | 1 | 405 | 3 | 8 |
| Indiana: | | | | | | | | | |
| Fort Wayne..... | 105,300 | 7 | 5 | 5 | 0 | 1 | 1 | 0 | 1 |
| Indianapolis..... | 382,100 | 48 | 11 | 5 | 0 | 0 | 17 | 15 | 15 |
| South Bend..... | 86,100 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Terre Haute..... | 73,500 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| Illinois: | | | | | | | | | |
| Chicago..... | 3,157,400 | 152 | 111 | 162 | 19 | 11 | 20 | 23 | 72 |
| Springfield..... | 67,200 | 14 | 2 | 1 | 1 | 1 | 1 | 0 | 1 |
| Michigan: | | | | | | | | | |
| Detroit..... | 1,378,900 | 69 | 65 | 40 | 0 | 2 | 118 | 25 | 27 |
| Flint..... | 148,800 | 21 | 5 | 0 | 1 | 1 | 1 | 0 | 2 |
| Grand Rapids..... | 164,200 | 4 | 2 | 0 | 0 | 0 | 1 | 1 | 1 |
| Wisconsin: | | | | | | | | | |
| Kenosha..... | 56,500 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 1 |
| Madison..... | 50,500 | 4 | 0 | 1 | 0 | 0 | 112 | 1 | 0 |
| Milwaukee..... | 544,200 | 131 | 22 | 5 | 1 | 1 | 2 | 16 | 11 |
| Racine..... | 74,400 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Superior..... | (1) | 0 | 1 | 0 | 0 | 0 | 12 | 2 | 1 |
| WEST NORTH CENTRAL | | | | | | | | | |
| Minnesota: | | | | | | | | | |
| Duluth..... | 116,800 | 2 | 2 | 0 | 0 | 0 | 32 | 0 | 9 |
| Minneapolis..... | 455,900 | 194 | 22 | 8 | 4 | 4 | 26 | 4 | 15 |
| St. Paul..... | (1) | 10 | 13 | 0 | 0 | 3 | 8 | 4 | 9 |
| Iowa: | | | | | | | | | |
| Davenport..... | (1) | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Des Moines..... | 151,900 | 1 | 4 | 0 | 0 | 0 | 15 | 1 | 0 |
| Sioux City..... | 80,000 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| Waterloo..... | 37,100 | 10 | 0 | 2 | 0 | 0 | 65 | 0 | 0 |
| Missouri: | | | | | | | | | |
| Kansas City..... | 391,000 | 26 | 8 | 2 | 0 | 0 | 2 | 0 | 17 |
| St. Joseph..... | 78,500 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| St. Louis..... | 848,100 | 11 | 48 | 35 | 0 | 1 | 19 | 0 | 0 |
| North Dakota: | | | | | | | | | |
| Fargo..... | (1) | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Grand Forks..... | (1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota: | | | | | | | | | |
| Aberdeen..... | (1) | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sioux Falls..... | (1) | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 |
| Nebraska: | | | | | | | | | |
| Omaha..... | 222,800 | 14 | 5 | 11 | 0 | 0 | 9 | 0 | 6 |
| Kansas: | | | | | | | | | |
| Topeka..... | 62,800 | 46 | 2 | 1 | 1 | 2 | 3 | 8 | 1 |
| Wichita..... | 99,300 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |

¹No estimate of population made.

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Population, July 1, 1928, estimated | Chick-en pox, cases reported | Diphtheria | | Influenza | | Meas-les, cases reported | Mumps, cases reported | Pneu-monia, deaths reported |
|---------------------------|-------------------------------------|------------------------------|-----------------------------|-----------------|-----------------|------------------|--------------------------|-----------------------|-----------------------------|
| | | | Cases, estimated expectancy | Cases re-ported | Cases re-ported | Deaths re-ported | | | |
| SOUTH ATLANTIC | | | | | | | | | |
| Delaware: | | | | | | | | | |
| Wilmington..... | 128, 500 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 3 |
| Maryland: | | | | | | | | | |
| Baltimore..... | 830, 400 | 69 | 33 | 13 | 26 | 3 | 3 | 3 | 44 |
| Cumberland..... | (¹) | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| Frederick..... | (¹) | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia: | | | | | | | | | |
| Washington..... | 552, 000 | 15 | 20 | 11 | 2 | 2 | 3 | 0 | 18 |
| Virginia: | | | | | | | | | |
| Lynchburg..... | 38, 600 | 13 | 2 | 1 | 0 | 0 | 61 | 14 | 2 |
| Norfolk..... | 184, 200 | 0 | 2 | 1 | 0 | 0 | 1 | 8 | 8 |
| Richmond..... | 194, 400 | 0 | 7 | 1 | 0 | 2 | 0 | 1 | 8 |
| Roanoke..... | 64, 600 | 0 | 2 | 3 | 0 | 0 | 1 | 2 | 1 |
| West Virginia: | | | | | | | | | |
| Charleston..... | 55, 200 | 6 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| Wheeling..... | (¹) | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 5 |
| North Carolina: | | | | | | | | | |
| Raleigh..... | (¹) | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wilmington..... | 39, 100 | 0 | 1 | 3 | 0 | 0 | 1 | 0 | 1 |
| Winston-Salem..... | 80, 000 | 12 | 1 | 3 | 6 | 0 | 0 | 6 | 5 |
| South Carolina: | | | | | | | | | |
| Charleston..... | 75, 900 | 2 | 1 | 0 | 57 | 0 | 0 | 1 | 4 |
| Columbia..... | 50, 600 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Georgia: | | | | | | | | | |
| Atlanta..... | 255, 100 | 5 | 5 | 3 | 38 | 2 | 0 | 10 | 15 |
| Brunswick..... | (¹) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Savannah..... | 99, 900 | 7 | 1 | 3 | 7 | 0 | 0 | 0 | 6 |
| Florida: | | | | | | | | | |
| Miami..... | 156, 700 | 1 | 4 | 2 | 0 | 0 | 2 | 2 | 2 |
| St. Petersburg..... | 53, 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tampa..... | 113, 400 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 2 |
| EAST SOUTH CENTRAL | | | | | | | | | |
| Kentucky: | | | | | | | | | |
| Covington..... | 59, 000 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 1 |
| Tennessee: | | | | | | | | | |
| Memphis..... | 190, 200 | 5 | 6 | 0 | 0 | 2 | 0 | 2 | 9 |
| Nashville..... | 139, 600 | 1 | 1 | 1 | 0 | 0 | 0 | 6 | 9 |
| Alabama: | | | | | | | | | |
| Birmingham..... | 222, 400 | 5 | 4 | 10 | 9 | 2 | 1 | 0 | 12 |
| Mobile..... | 69, 600 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 4 |
| Montgomery..... | 63, 100 | 7 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |
| WEST SOUTH CENTRAL | | | | | | | | | |
| Arkansas: | | | | | | | | | |
| Fort Smith..... | (¹) | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Little Rock..... | 79, 200 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 2 |
| Louisiana: | | | | | | | | | |
| New Orleans..... | 429, 400 | 0 | 13 | 11 | 9 | 7 | 19 | 0 | 27 |
| Shreveport..... | 81, 300 | 2 | 2 | 2 | 0 | 0 | 1 | 3 | 9 |
| Oklahoma: | | | | | | | | | |
| Oklahoma City..... | (¹) | 7 | 2 | 3 | 1 | 1 | 0 | 0 | 3 |
| Tulsa..... | 170, 500 | 19 | 3 | 0 | 0 | 0 | 12 | 0 | 0 |
| Texas: | | | | | | | | | |
| Dallas..... | 217, 800 | 6 | 10 | 21 | 1 | 3 | 5 | 0 | 14 |
| Fort Worth..... | 170, 600 | 9 | 4 | 7 | 0 | 0 | 1 | 1 | 2 |
| Galveston..... | 50, 600 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| Houston..... | (¹) | 1 | 7 | 9 | 1 | 1 | 0 | 1 | 16 |
| San Antonio..... | 218, 100 | 0 | 3 | 5 | 0 | 8 | 1 | 0 | 10 |
| MOUNTAIN | | | | | | | | | |
| Montana: | | | | | | | | | |
| Billings..... | (¹) | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 0 |
| Great Falls..... | (¹) | 3 | 0 | 0 | 0 | 0 | 0 | 28 | 0 |
| Helena..... | (¹) | 0 | 0 | 1 | 0 | 0 | 1 | 40 | 1 |
| Missoula..... | (¹) | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Idaho: | | | | | | | | | |
| Boise..... | (¹) | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Colorado: | | | | | | | | | |
| Denver..... | 294, 200 | 49 | 10 | 3 | 0 | 2 | 8 | 8 | 15 |
| Pueblo..... | 44, 200 | 6 | 2 | 0 | 0 | 0 | 0 | 13 | 1 |

¹ No estimate of population made.

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Population, July 1, 1928, estimated | Chick-en pox, cases re-ported | Diphtheria | | Influenza | | Meas-les, cases re-ported | Mumps, cases re-ported | Pneu-monia, deaths re-ported |
|---------------------------|-------------------------------------|-------------------------------|-------------------------------|-----------------|-----------------|------------------|---------------------------|------------------------|------------------------------|
| | | | Cases, esti-mated expect-ancy | Cases re-ported | Cases re-ported | Deaths re-ported | | | |
| MOUNTAIN—continued | | | | | | | | | |
| New Mexico: | | | | | | | | | |
| Albuquerque..... | (1) | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Arizona: | | | | | | | | | |
| Phoenix..... | (1) | 2 | 0 | 1 | 1 | 1 | 1 | 3 | 3 |
| Utah: | | | | | | | | | |
| Salt Lake City..... | 138,000 | 36 | 4 | 1 | 0 | 11 | 9 | 3 | 3 |
| Nevada: | | | | | | | | | |
| Reno..... | (1) | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| PACIFIC | | | | | | | | | |
| Washington: | | | | | | | | | |
| Seattle..... | 383,200 | 54 | 5 | 2 | 1 | 32 | 0 | 0 | 0 |
| Spokane..... | 109,100 | 21 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| Tacoma..... | 110,500 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 |
| Oregon: | | | | | | | | | |
| Portland..... | (1) | 27 | 12 | 9 | 5 | 0 | 4 | 11 | 7 |
| Salem..... | (1) | 3 | 0 | 1 | 0 | 1 | 5 | 0 | 0 |
| California: | | | | | | | | | |
| Los Angeles..... | (1) | 45 | 43 | 33 | 30 | 1 | 8 | 16 | 28 |
| Sacramento..... | 75,700 | 6 | 3 | 3 | 2 | 1 | 2 | 24 | 7 |
| San Francisco..... | 685,300 | 24 | 19 | 7 | 5 | 2 | 117 | 18 | 2 |

| Division, State, and city | Scarlet fever | | Smallpox | | | Tuber-culosis, deaths re-ported | Typhoid fever | | | Whoop-ing cough, cases re-ported | Deaths, all causes |
|---------------------------|-------------------------------|-----------------|-------------------------------|-----------------|------------------|---------------------------------|-------------------------------|-----------------|------------------|----------------------------------|--------------------|
| | Cases, esti-mated expect-ancy | Cases re-ported | Cases, esti-mated expect-ancy | Cases re-ported | Deaths re-ported | | Cases, esti-mated expect-ancy | Cases re-ported | Deaths re-ported | | |
| NEW ENGLAND | | | | | | | | | | | |
| Maine: | | | | | | | | | | | |
| Portland..... | 2 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 23 |
| New Hampshire: | | | | | | | | | | | |
| Concord..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Manchester..... | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Vermont: | | | | | | | | | | | |
| Barre..... | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 4 |
| Massachusetts: | | | | | | | | | | | |
| Boston..... | 75 | 85 | 0 | 0 | 0 | 10 | 1 | 1 | 0 | 57 | 252 |
| Fall River..... | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 28 |
| Springfield..... | 10 | 12 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 49 |
| Worcester..... | 13 | 10 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 65 |
| Rhode Island: | | | | | | | | | | | |
| Pawtucket..... | 1 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 21 |
| Providence..... | 9 | 16 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 83 |
| Connecticut: | | | | | | | | | | | |
| Bridgeport..... | 10 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 42 |
| Hartford..... | 7 | 10 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 62 |
| New Haven..... | 7 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 45 |
| MIDDLE ATLANTIC | | | | | | | | | | | |
| New York: | | | | | | | | | | | |
| Buffalo..... | 25 | 38 | 0 | 0 | 0 | 11 | 1 | 0 | 0 | 13 | 178 |
| New York..... | 223 | 161 | 0 | 0 | 0 | 94 | 9 | 0 | 0 | 52 | 1,640 |
| Rochester..... | 13 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 83 |
| Syracuse..... | 13 | 20 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 34 | 51 |
| New Jersey: | | | | | | | | | | | |
| Camden..... | 7 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 31 |
| Newark..... | 27 | 19 | 0 | 0 | 0 | 11 | 0 | 1 | 0 | 23 | 137 |
| Trenton..... | 4 | 12 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 32 |
| Pennsylvania: | | | | | | | | | | | |
| Philadelphia..... | 95 | 100 | 0 | 0 | 0 | 28 | 3 | 1 | 1 | 23 | 537 |
| Pittsburgh..... | 39 | 33 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 16 | 166 |
| Reading..... | 4 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 17 | 31 |

1 No estimate of population made.

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Scarlet fever | | Smallpox | | | Tuberculosis, deaths reported | Typhoid fever | | | Whooping cough, cases reported | Deaths, all causes |
|------------------------------|-----------------------------|----------------|-----------------------------|----------------|-----------------|-------------------------------|-----------------------------|----------------|-----------------|--------------------------------|--------------------|
| | Cases, estimated expectancy | Cases reported | Cases, estimated expectancy | Cases reported | Deaths reported | | Cases, estimated expectancy | Cases reported | Deaths reported | | |
| EAST NORTH CENTRAL | | | | | | | | | | | |
| Ohio: | | | | | | | | | | | |
| Cincinnati..... | 19 | 27 | 0 | 1 | 0 | 15 | 1 | 1 | 1 | 5 | 166 |
| Cleveland..... | 43 | 36 | 1 | 0 | 0 | 18 | 1 | 0 | 0 | 43 | 224 |
| Columbus..... | 11 | 7 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 2 | 89 |
| Toledo..... | 15 | 8 | 1 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 60 |
| Indiana: | | | | | | | | | | | |
| Fort Wayne..... | 5 | 3 | 1 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | ----- |
| Indianapolis..... | 11 | 7 | 8 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 110 |
| South Bend..... | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ----- |
| Terre Haute..... | 3 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 34 |
| Illinois: | | | | | | | | | | | |
| Chicago..... | 129 | 269 | 0 | 0 | 0 | 52 | 3 | 2 | 1 | 83 | 710 |
| Springfield..... | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 26 |
| Michigan: | | | | | | | | | | | |
| Detroit..... | 101 | 141 | 2 | 1 | 0 | 14 | 1 | 0 | 0 | 66 | 288 |
| Flint..... | 13 | 9 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 24 |
| Grand Rapids..... | 13 | 11 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 6 | 41 |
| Wisconsin: | | | | | | | | | | | |
| Kenosha..... | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 |
| Madison..... | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 8 |
| Milwaukee..... | 35 | 17 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 23 | 134 |
| Racine..... | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ----- |
| Superior..... | 3 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 13 |
| WEST NORTH CENTRAL | | | | | | | | | | | |
| Minnesota: | | | | | | | | | | | |
| Duluth..... | 11 | 5 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 6 | 25 |
| Minneapolis..... | 57 | 14 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 122 |
| St. Paul..... | 31 | 9 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 8 | 78 |
| Iowa: | | | | | | | | | | | |
| Davenport..... | 2 | 0 | 1 | 6 | ----- | ----- | 0 | 0 | ----- | 0 | ----- |
| Des Moines..... | 10 | 8 | 2 | 12 | ----- | ----- | 0 | 0 | ----- | 0 | 27 |
| Sioux City..... | 1 | 0 | 1 | 2 | ----- | ----- | 0 | 0 | ----- | 0 | ----- |
| Waterloo..... | 2 | 0 | 0 | 32 | ----- | ----- | 0 | 0 | ----- | 3 | ----- |
| Missouri: | | | | | | | | | | | |
| Kansas City..... | 15 | 36 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 94 |
| St. Joseph..... | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| St. Louis..... | 41 | 43 | 1 | 1 | 0 | 13 | 1 | 0 | 0 | 3 | 264 |
| North Dakota: | | | | | | | | | | | |
| Fargo..... | 2 | 2 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| Grand Forks..... | 1 | 0 | 0 | 0 | ----- | ----- | 0 | 0 | ----- | 0 | ----- |
| South Dakota: | | | | | | | | | | | |
| Aberdeen..... | 0 | 0 | 0 | 0 | ----- | ----- | 0 | 0 | ----- | 1 | ----- |
| Sioux Falls..... | 2 | 0 | 0 | 16 | ----- | ----- | 0 | 0 | ----- | 0 | 7 |
| Nebraska: | | | | | | | | | | | |
| Omaha..... | 5 | 8 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 1 | 64 |
| Kansas: | | | | | | | | | | | |
| Topeka..... | 3 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 24 |
| Wichita..... | 5 | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 15 |
| SOUTH ATLANTIC | | | | | | | | | | | |
| Delaware: | | | | | | | | | | | |
| Wilmington..... | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22 |
| Maryland: | | | | | | | | | | | |
| Baltimore..... | 32 | 28 | 0 | 0 | 0 | 18 | 2 | 2 | 0 | 17 | 242 |
| Cumberland..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Frederick..... | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia: | | | | | | | | | | | |
| Washington..... | 24 | 16 | 0 | 0 | 0 | 8 | 1 | 0 | 0 | 7 | 162 |
| Virginia: | | | | | | | | | | | |
| Lynchburg..... | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 18 | 22 |
| Norfolk..... | 2 | 9 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | ----- |
| Richmond..... | 6 | 13 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 62 |
| Roanoke..... | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 21 |
| West Virginia: | | | | | | | | | | | |
| Charleston..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 18 |
| Wheeling..... | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 24 |
| North Carolina: | | | | | | | | | | | |
| Raleigh..... | 1 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 9 |
| Wilmington..... | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Winston-Salem..... | 3 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 20 |

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Scarlet fever | | Smallpox | | | Tuber- culis, deaths re- ported | Typhoid fever | | | Whoop- ing cough, cases re- ported | Deaths all causes |
|--------------------------------------|---|------------------------|---|------------------------|-------------------------|---|---|------------------------|-------------------------|---|-------------------------|
| | Cases, esti- mated expect- ancy | Cases re- ported | Cases, esti- mated expect- ancy | Cases re- ported | Deaths re- ported | | Cases, esti- mated expect- ancy | Cases re- ported | Deaths re- ported | | |
| SOUTH ATLANTIC— continued | | | | | | | | | | | |
| South Carolina: | | | | | | | | | | | |
| Charleston..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 36 |
| Columbia..... | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 13 | 15 |
| Georgia: | | | | | | | | | | | |
| Atlanta..... | 4 | 11 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 94 |
| Brunswick..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Savannah..... | 1 | 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 40 |
| Florida: | | | | | | | | | | | |
| Miami..... | 1 | 5 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 25 |
| St. Petersburg..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Tampa..... | 1 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 25 |
| EAST SOUTH CEN- TRAL | | | | | | | | | | | |
| Kentucky: | | | | | | | | | | | |
| Covington..... | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 29 |
| Tennessee: | | | | | | | | | | | |
| Memphis..... | 6 | 8 | 1 | 0 | 0 | 7 | 1 | 0 | 0 | 1 | 79 |
| Nashville..... | 3 | 1 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 63 |
| Alabama: | | | | | | | | | | | |
| Birmingham..... | 5 | 7 | 2 | 0 | 0 | 4 | 1 | 1 | 0 | 1 | 87 |
| Mobile..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Montgomery..... | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| WEST SOUTH CEN- TRAL | | | | | | | | | | | |
| Arkansas: | | | | | | | | | | | |
| Fort Smith..... | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| Little Rock..... | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| Louisiana: | | | | | | | | | | | |
| New Orleans..... | 6 | 7 | 0 | 0 | 0 | 10 | 3 | 0 | 0 | 0 | 191 |
| Shreveport..... | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 34 |
| Oklahoma: | | | | | | | | | | | |
| Oklahoma City..... | 3 | 11 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 24 |
| Tulsa..... | 2 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | — |
| Texas: | | | | | | | | | | | |
| Dallas..... | 6 | 7 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 73 |
| Fort Worth..... | 2 | 8 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 38 |
| Galveston..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Houston..... | 3 | 4 | 1 | 3 | 0 | 12 | 0 | 0 | 0 | 0 | 96 |
| San Antonio..... | 2 | 0 | 0 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 97 |
| MOUNTAIN | | | | | | | | | | | |
| Montana: | | | | | | | | | | | |
| Billings..... | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Great Falls..... | 2 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Helena..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Missoula..... | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Idaho: | | | | | | | | | | | |
| Boise..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Colorado: | | | | | | | | | | | |
| Denver..... | 11 | 19 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 9 | 70 |
| Pueblo..... | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| New Mexico: | | | | | | | | | | | |
| Albuquerque..... | 1 | 1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 13 |
| Arizona: | | | | | | | | | | | |
| Phoenix..... | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 22 |
| Utah: | | | | | | | | | | | |
| Salt Lake City..... | 4 | 8 | 3 | 1 | 0 | 1 | 0 | 1 | 0 | 19 | 31 |
| Nevada: | | | | | | | | | | | |
| Reno..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| PACIFIC | | | | | | | | | | | |
| Washington: | | | | | | | | | | | |
| Seattle..... | 9 | 12 | 2 | 3 | 0 | 0 | 1 | 0 | 0 | 11 | — |
| Spokane..... | 8 | 0 | 4 | 29 | 0 | 0 | 0 | 0 | 0 | 3 | — |
| Tacoma..... | 3 | 7 | 3 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 21 |
| Oregon: | | | | | | | | | | | |
| Portland..... | 7 | 3 | 11 | 3 | 0 | 0 | 1 | 0 | 0 | 3 | 77 |
| Salem..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| California: | | | | | | | | | | | |
| Los Angeles..... | 29 | 61 | 4 | 0 | 0 | 25 | 1 | 0 | 0 | 18 | 311 |
| Sacramento..... | 2 | 6 | 1 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 29 |
| San Francisco..... | 16 | 25 | 1 | 2 | 0 | 8 | 0 | 3 | 0 | 0 | 162 |

City reports for week ended January 4, 1930—Continued

| Division, State, and city | Meningococcus meningitis | | Lethargic encephalitis | | Pellagra | | Poliomyelitis (infantile paralysis) | | |
|-----------------------------|--------------------------|--------|------------------------|--------|----------|--------|-------------------------------------|-------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases, estimated expectancy | Cases | Deaths |
| NEW ENGLAND | | | | | | | | | |
| Massachusetts: | | | | | | | | | |
| Worcester..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MIDDLE ATLANTIC | | | | | | | | | |
| New York: | | | | | | | | | |
| New York ¹ | 14 | 7 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| New Jersey: | | | | | | | | | |
| Newark..... | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Pennsylvania: | | | | | | | | | |
| Philadelphia..... | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pittsburgh..... | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EAST NORTH CENTRAL | | | | | | | | | |
| Ohio: | | | | | | | | | |
| Cincinnati..... | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Cleveland..... | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana: | | | | | | | | | |
| Indianapolis..... | 14 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois: | | | | | | | | | |
| Chicago..... | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Michigan: | | | | | | | | | |
| Detroit..... | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEST NORTH CENTRAL | | | | | | | | | |
| Minnesota: | | | | | | | | | |
| Minneapolis..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri: | | | | | | | | | |
| Kansas City..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St. Louis..... | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH ATLANTIC ¹ | | | | | | | | | |
| Delaware: | | | | | | | | | |
| Wilmington..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Virginia: | | | | | | | | | |
| Richmond..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| North Carolina: | | | | | | | | | |
| Winston-Salem..... | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Georgia: | | | | | | | | | |
| Atlanta..... | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| EAST SOUTH CENTRAL | | | | | | | | | |
| Kentucky: | | | | | | | | | |
| Covington..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee: | | | | | | | | | |
| Memphis..... | 5 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Nashville..... | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEST SOUTH CENTRAL | | | | | | | | | |
| Louisiana: | | | | | | | | | |
| New Orleans..... | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shreveport..... | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Oklahoma: | | | | | | | | | |
| Oklahoma City..... | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Tulsa..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas: | | | | | | | | | |
| Dallas..... | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Fort Worth..... | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Galveston..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Houston..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| MOUNTAIN | | | | | | | | | |
| Utah: | | | | | | | | | |
| Salt Lake City..... | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PACIFIC | | | | | | | | | |
| Washington: | | | | | | | | | |
| Seattle..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spokane..... | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California: | | | | | | | | | |
| Los Angeles..... | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| San Francisco..... | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

¹ Typhus fever, 2 cases; 1 case at New York City, N. Y., and 1 case at Tampa, Fla.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 4, 1930, compared with those for a like period ended January 5, 1929. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 32,000,000. The 91 cities reporting deaths have nearly 30,500,000 estimated population.

*Summary of weekly reports from cities, December 1, 1929, to January 4, 1930—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928-29*¹

DIPHTHERIA CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|--------------|--------------|---------------|---------------|---------------|---------------|------------------|---------------|------------------|--------------|
| | Dec. 7, 1929 | Dec. 8, 1928 | Dec. 14, 1929 | Dec. 15, 1928 | Dec. 21, 1929 | Dec. 22, 1928 | Dec. 28, 1929 | Dec. 29, 1928 | Jan. 4, 1930 | Jan. 5, 1929 |
| 98 cities..... | 147 | 166 | 134 | 159 | 129 | 146 | ² 120 | 133 | ³ 117 | 148 |
| New England..... | 113 | 209 | 118 | 216 | 170 | 159 | ² 125 | 170 | 136 | 163 |
| Middle Atlantic..... | 110 | 159 | 112 | 139 | 106 | 146 | 113 | 156 | 86 | 178 |
| East North Central..... | 191 | 190 | 170 | 208 | 167 | 166 | 166 | 133 | ³ 156 | 153 |
| West North Central..... | 121 | 149 | 148 | 149 | 110 | 139 | 67 | 119 | 114 | 161 |
| South Atlantic..... | 177 | 143 | 107 | 130 | 107 | 122 | 79 | 105 | 86 | 111 |
| East South Central..... | 224 | 140 | 136 | 98 | 122 | 133 | 109 | 105 | 112 | 88 |
| West South Central..... | 376 | 259 | 304 | 251 | 233 | 191 | 178 | 174 | 201 | 111 |
| Mountain..... | 157 | 35 | 61 | 18 | 61 | 71 | 35 | 18 | 52 | 70 |
| Pacific..... | 87 | 100 | 60 | 61 | 57 | 95 | 85 | 43 | 120 | 60 |

MEASLES CASE RATES

| | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----------------|-----|------------------|-----|
| 98 cities..... | 98 | 148 | 113 | 183 | 110 | 179 | ² 92 | 161 | ³ 130 | 196 |
| New England..... | 81 | 736 | 86 | 837 | 93 | 800 | ² 98 | 676 | 125 | 964 |
| Middle Atlantic..... | 54 | 46 | 47 | 91 | 59 | 68 | 51 | 77 | 76 | 80 |
| East North Central..... | 93 | 187 | 133 | 194 | 94 | 251 | 97 | 206 | ³ 118 | 230 |
| West North Central..... | 215 | 194 | 202 | 272 | 210 | 225 | 146 | 201 | 277 | 198 |
| South Atlantic..... | 4 | 55 | 28 | 88 | 39 | 52 | 30 | 73 | 132 | 114 |
| East South Central..... | 14 | 14 | 14 | 0 | 0 | 28 | 0 | 0 | 7 | 14 |
| West South Central..... | 47 | 41 | 63 | 12 | 138 | 12 | 91 | 4 | 101 | 24 |
| Mountain..... | 165 | 186 | 104 | 257 | 139 | 204 | 78 | 106 | 197 | 383 |
| Pacific..... | 389 | 43 | 479 | 64 | 431 | 49 | 337 | 84 | 315 | 40 |

SCARLET FEVER CASE RATES

| | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|------------------|-----|------------------|-----|
| 96 cities..... | 253 | 201 | 276 | 203 | 290 | 184 | ² 217 | 183 | ³ 250 | 195 |
| New England..... | 278 | 237 | 378 | 251 | 312 | 241 | ² 314 | 308 | 377 | 296 |
| Middle Atlantic..... | 148 | 142 | 172 | 143 | 176 | 145 | 164 | 138 | 186 | 148 |
| East North Central..... | 409 | 259 | 438 | 290 | 354 | 233 | 311 | 220 | ³ 344 | 239 |
| West North Central..... | 231 | 264 | 271 | 252 | 235 | 241 | 179 | 262 | 248 | 258 |
| South Atlantic..... | 159 | 176 | 193 | 163 | 253 | 166 | 144 | 132 | 186 | 154 |
| East South Central..... | 143 | 259 | 88 | 168 | 48 | 154 | 75 | 182 | 125 | 197 |
| West South Central..... | 162 | 219 | 142 | 174 | 103 | 101 | 126 | 162 | 89 | 142 |
| Mountain..... | 392 | 80 | 322 | 62 | 583 | 27 | 322 | 27 | 378 | 113 |
| Pacific..... | 367 | 197 | 352 | 182 | 252 | 197 | 254 | 151 | 271 | 185 |

SMALLPOX CASE RATES

| | | | | | | | | | | |
|-------------------------|----|----|-----|----|-----|----|-----------------|----|-----------------|----|
| 98 cities..... | 19 | 4 | 23 | 8 | 23 | 8 | ² 18 | 4 | ³ 20 | 3 |
| New England..... | 0 | 2 | 2 | 0 | 0 | 2 | ² 0 | 2 | 0 | 0 |
| Middle Atlantic..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| East North Central..... | 26 | 10 | 29 | 16 | 31 | 4 | 20 | 3 | ³ 16 | 6 |
| West North Central..... | 63 | 2 | 56 | 0 | 60 | 6 | 58 | 10 | 80 | 2 |
| South Atlantic..... | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 2 | 0 |
| East South Central..... | 0 | 28 | 0 | 7 | 7 | 0 | 7 | 7 | 0 | 7 |
| West South Central..... | 20 | 4 | 36 | 24 | 36 | 41 | 28 | 12 | 15 | 4 |
| Mountain..... | 78 | 0 | 78 | 44 | 52 | 44 | 44 | 35 | 62 | 35 |
| Pacific..... | 62 | 8 | 122 | 20 | 117 | 56 | 80 | 15 | 107 | 5 |

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1930, 1929, and 1928, respectively.

² Hartford, Conn., not included.

³ South Bend, Ind., and Racine, Wis., not included.

Summary of weekly reports from cities, December 1, 1929, to January 4, 1930—
Annual rates per 100,000 population, compared with rates for the corresponding
period of 1928-29 ¹

TYPHOID FEVER CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|
| | Dec. 7, 1929 | Dec. 8, 1928 | Dec. 14, 1929 | Dec. 15, 1928 | Dec. 21, 1929 | Dec. 22, 1928 | Dec. 28, 1929 | Dec. 29, 1928 | Jan. 4, 1930 | Jan. 5, 1929 |
| 98 cities..... | 5 | 8 | 6 | 5 | 5 | 4 | 4 | 5 | 2 | 4 |
| New England..... | 2 | 5 | 7 | 7 | 0 | 2 | 10 | 2 | 2 | 5 |
| Middle Atlantic..... | 4 | 7 | 6 | 4 | 4 | 4 | 3 | 4 | 1 | 2 |
| East North Central..... | 4 | 7 | 3 | 1 | 3 | 1 | 1 | 5 | 12 | 3 |
| West North Central..... | 2 | 4 | 6 | 4 | 8 | 2 | 2 | 6 | 0 | 0 |
| South Atlantic..... | 6 | 8 | 7 | 6 | 4 | 8 | 9 | 6 | 6 | 9 |
| East South Central..... | 48 | 14 | 14 | 21 | 0 | 7 | 34 | 7 | 7 | 0 |
| West South Central..... | 0 | 49 | 8 | 16 | 40 | 8 | 8 | 8 | 0 | 4 |
| Mountain..... | 26 | 0 | 9 | 9 | 17 | 9 | 0 | 9 | 9 | 9 |
| Pacific..... | 10 | 5 | 7 | 8 | 2 | 10 | 10 | 8 | 10 | 7 |

INFLUENZA DEATH RATES

| | | | | | | | | | | |
|-------------------------|----|-----|----|-----|----|-----|----|-----|----|-----|
| 91 cities..... | 17 | 50 | 16 | 80 | 19 | 118 | 19 | 180 | 17 | 234 |
| New England..... | 11 | 9 | 7 | 9 | 9 | 14 | 10 | 14 | 7 | 48 |
| Middle Atlantic..... | 14 | 17 | 9 | 27 | 18 | 66 | 13 | 129 | 10 | 165 |
| East North Central..... | 9 | 15 | 15 | 44 | 14 | 124 | 13 | 201 | 15 | 238 |
| West North Central..... | 27 | 64 | 12 | 174 | 15 | 220 | 15 | 254 | 27 | 240 |
| South Atlantic..... | 28 | 64 | 19 | 101 | 13 | 134 | 26 | 281 | 18 | 343 |
| East South Central..... | 59 | 64 | 59 | 100 | 52 | 77 | 30 | 268 | 29 | 970 |
| West South Central..... | 49 | 64 | 81 | 96 | 69 | 212 | 97 | 379 | 79 | 596 |
| Mountain..... | 17 | 514 | 0 | 735 | 26 | 594 | 26 | 266 | 17 | 218 |
| Pacific..... | 13 | 293 | 20 | 317 | 30 | 212 | 20 | 182 | 13 | 134 |

PNEUMONIA DEATH RATES

| | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 91 cities..... | 137 | 161 | 151 | 202 | 159 | 250 | 144 | 315 | 170 | 383 |
| New England..... | 75 | 80 | 136 | 108 | 158 | 169 | 96 | 159 | 163 | 201 |
| Middle Atlantic..... | 129 | 149 | 156 | 190 | 165 | 247 | 155 | 294 | 181 | 395 |
| East North Central..... | 128 | 135 | 115 | 171 | 117 | 255 | 116 | 382 | 113 | 466 |
| West North Central..... | 126 | 190 | 174 | 318 | 189 | 444 | 174 | 364 | 195 | 216 |
| South Atlantic..... | 131 | 170 | 191 | 251 | 184 | 228 | 152 | 344 | 221 | 360 |
| East South Central..... | 237 | 306 | 215 | 199 | 215 | 267 | 193 | 261 | 251 | 533 |
| West South Central..... | 243 | 179 | 239 | 183 | 243 | 254 | 243 | 408 | 329 | 670 |
| Mountain..... | 166 | 337 | 192 | 629 | 235 | 399 | 209 | 363 | 199 | 174 |
| Pacific..... | 144 | 293 | 111 | 222 | 144 | 169 | 106 | 169 | 118 | 148 |

¹ Hartford, Conn., not included.

² South Bend, Ind., and Racine, Wis., not included.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended December 28, 1929.—The Department of Pensions and National Health reports cases of certain communicable diseases in Canada for the week ended December 28, 1929, as follows:

| Province | Cerebro-spinal fever | Influenza | Lethargic encephalitis | Poliomyelitis | Small-pox | Typhoid fever |
|---|----------------------|-----------|------------------------|---------------|-----------|---------------|
| Prince Edward Island ¹ | ----- | ----- | ----- | ----- | ----- | ----- |
| Nova Scotia ¹ | ----- | ----- | ----- | ----- | ----- | ----- |
| New Brunswick ¹ | ----- | ----- | ----- | ----- | ----- | ----- |
| Quebec..... | ----- | ----- | ----- | ----- | ----- | 4 |
| Ontario..... | 1 | 2 | 1 | 3 | 28 | 7 |
| Manitoba..... | ----- | ----- | ----- | ----- | 3 | ----- |
| Saskatchewan..... | ----- | ----- | ----- | ----- | 10 | 1 |
| Alberta..... | 2 | ----- | ----- | ----- | 2 | ----- |
| British Columbia..... | 3 | ----- | ----- | ----- | 2 | 1 |
| Total..... | 6 | 2 | 1 | 3 | 45 | 13 |

¹ No case of any disease included in the table was reported during the week.

Quebec Province—Communicable diseases—Week ended January 4, 1930.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended January 4, 1930, as follows:

| Disease | Cases | Disease | Cases |
|-------------------------------|-------|---------------------|-------|
| Cerebrospinal meningitis..... | 1 | Mumps..... | 15 |
| Chicken pox..... | 28 | Scarlet fever..... | 25 |
| Diphtheria..... | 30 | Smallpox..... | 2 |
| German measles..... | 1 | Tuberculosis..... | 11 |
| Influenza..... | 1 | Typhoid fever..... | 2 |
| Measles..... | 84 | Whooping cough..... | 23 |

CUBA

Provinces—Communicable diseases—Four weeks ended December 21, 1929.—During the four weeks ended December 21, 1929, cases of certain communicable diseases were reported in the Provinces of Cuba as follows:

| Disease | Pinar del Rio | Habana | Matanzas | Santa Clara | Camaguey | Oriente | Total |
|------------------------|---------------|--------|----------|-------------|----------|---------|-------|
| Cancer..... | 2 | 8 | ----- | 3 | ----- | ----- | 13 |
| Chicken pox..... | 1 | 12 | ----- | 1 | ----- | ----- | 14 |
| Diphtheria..... | 1 | 6 | ----- | 3 | 4 | ----- | 14 |
| Malaria..... | 6 | 24 | ----- | 4 | 17 | 20 | 80 |
| Measles..... | ----- | 12 | ----- | 23 | ----- | ----- | 35 |
| Paratyphoid fever..... | ----- | ----- | ----- | 5 | ----- | 4 | 12 |
| Scarlet fever..... | ----- | 13 | ----- | 8 | ----- | ----- | 18 |
| Typhoid fever..... | 13 | 54 | 2 | 26 | 4 | 19 | 118 |

NETHERLANDS

Smallpox (alastrim)—Week ended December 21, 1929.—During the week ended December 21, 1929, 1 case of smallpox (alastrim) was reported at Bodegraven, Netherlands.

| | | | | | | | | | | | | |
|---|---|-----|-----|-----|----|----|---|---|---|----|---|---|
| D | Vnagapatam..... | 30 | 2 | 11 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 6 |
| D | India (French): | | | | | | | | | | | |
| | Chanderanagar..... | 3 | 2 | 1 | 3 | 1 | 1 | 1 | 2 | 10 | 1 | |
| | Karkal..... | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 4 | 4 | 3 | |
| O | Fondicherry Province..... | 3 | | | | | | | | | | |
| O | India (Portuguese)..... | 3 | | | | | | | | | | |
| D | Indo-China (see also table below): | | | | | | | | | | | |
| | Phumpeah..... | 11 | 7 | 3 | 61 | 28 | 8 | 7 | 1 | 2 | 1 | 2 |
| O | Salgon and Choloh..... | 14 | 5 | 2 | 53 | 20 | 4 | 4 | | 2 | 1 | 2 |
| O | Japan..... | 188 | 9 | 2 | | | | | | | | 2 |
| O | Kobe..... | 139 | 14 | 2 | | | | | | | | 2 |
| O | Osaka..... | | | | | | | | | | | |
| O | Shimonoseki..... | | | | | | | | | | | |
| O | Siam..... | 460 | 271 | 180 | 26 | 9 | | | | | | |
| O | | 285 | 202 | 132 | 19 | 4 | | | | | | |
| O | Anthoang..... | | 4 | 10 | | | | | | | | |
| O | Ayudhaya..... | 25 | 18 | 2 | | 2 | | | | | | |
| O | Bangkok..... | 11 | 11 | | | | | | | | | |
| O | Dhannapuri..... | 30 | 17 | 9 | 10 | 4 | | | 2 | 3 | 1 | 2 |
| O | Lobpur..... | 3 | 1 | 3 | 0 | 2 | | | 1 | 1 | | 1 |
| O | Nagara Rajsima..... | | | | | | | | | | | |
| O | Smud Songram..... | | | | | | | | | | | |
| O | Sridharmaraj Province ¹ | | | | | | | | | | | |
| O | On vessel: | | | | | | | | | | | |
| O | S. S. Angby, at Saigon-Cholon..... | 1 | | | | | | | | | | |
| O | S. S. Cap. St. Jacques, at Singapore, from Saigon-Cholon..... | 1 | | | | | | | | | | |
| O | S. S. Shinsei, at Shanghai..... | | P | | | | | | | | | |
| O | S. S. Tokushima, at Hong Kong..... | 2 | | 3 | | | | | | | | |
| O | S. S. Texas Maru, at Nagasaki, from Shanghai..... | 2 | | 1 | | | | | | | | |

¹ There were 98 cases of cholera with 16 deaths in Nagara Sridharmaraj Province, Siam, from May 16 to July 7, 1929.

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|----|-----|-----|-----|----|----|----|----|----|--|--|--|--|---|--|--|--|--|--|--|---|---|--|
| Ceylon: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colombo..... | D | P | | | 1 | | 1 | | 3 | | | | | | | 1 | | | | | | | | 1 | |
| Plague-infected rats..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Galle..... | D | | 1 | | 1 | | 1 | | 1 | | | | | | | | | | | | | | | 1 | |
| Kandy..... | D | | 1 | | 1 | | 1 | | 1 | | | | | | | | | | | | | | | 1 | |
| Matara..... | D | | 1 | | 1 | | 1 | | 1 | | | | | | | | | | | | | | | 1 | |
| China: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amoy..... | D | P | | | | | | | | | | | | | | | | | | | | | | | |
| Amoy..... | D | P | | | | | | | | | | | | | | | | | | | | | | | |
| Hong Kong..... | D | | | | | | | | | | | | | | | | | | | | | | | | |
| Plague-infected rats..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manchuria-Tungshao District..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dutch East Indies: Java— | | | | | | | | | | | | | | | | | | | | | | | | | |
| Batavia and West Java..... | D | P | 10 | | 2 | | | | | | | | | | | | | | | | | | | | |
| Plague-infected rats..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Celebes—Makassar..... | D | | 69 | 122 | 180 | 131 | 61 | 66 | 62 | 77 | | | | | | | | | | | | | | | |
| East Java and Madura..... | D | | 68 | 121 | 178 | 128 | 60 | 66 | 61 | 76 | | | | | | | | | | | | | | | |
| Plague-infected rats..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Celebes—Makassar..... | D | | 3 | | 7 | 60 | 35 | 3 | 1 | 2 | 29 | | | | | | | | | | | | | | |
| East Java and Madura..... | D | | 3 | | 7 | 60 | 36 | 3 | 1 | 3 | 29 | | | | | | | | | | | | | | |
| Surabaya..... | D | | 11 | | 7 | 2 | | | | | | | | | | | | | | | | | | | |
| Ecuador (see table below). | | | | | | | | | | | | | | | | | | | | | | | | | |
| Egypt: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alexandria..... | D | | 7 | 5 | 11 | 13 | 4 | 4 | 2 | 1 | 1 | | | | | | | | | | | | 2 | | |
| Assiout..... | D | | 3 | 1 | 6 | 3 | 3 | | 1 | | 1 | | | | | | | | | | | | 2 | | |
| Assuan..... | D | | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 1 | | |
| Beheira..... | D | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Beni Suef..... | D | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Dakhleh..... | D | | 1 | 1 | 1 | 1 | | | 1 | 1 | | | | | | | | | | | | | | | |
| Gharbieh..... | D | | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | 2 | |
| Girza..... | D | | 1 | 1 | | | 4 | | 1 | 1 | | | | | | | | | | | | | 1 | | |
| Kena..... | D | | 3 | | | 4 | | | | | | | | | | | | | | | | | 2 | | |
| Manufeh Province..... | D | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Miniah..... | D | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Port Said..... | D | | 7 | 6 | | | | | | | | | | | | | | | | | | | | | |
| Suez..... | D | | 3 | 6 | | 2 | | | | | | | | | | | | | | | | | | | |
| France: Paris..... | D | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | |

: Reports incomplete.

| | 20 | 4 | 1 | P | 1 | 2 | 4 | 2 | 3 | 5 |
|---|----|----|----|----|----|----|----|----|---|----|
| Morocco..... | C | | | | | | | | | |
| Nigeria: Lagos..... | D | 17 | 17 | 14 | 15 | 13 | 5 | 2 | | |
| Plague-infected rats | | 9 | 17 | 13 | 11 | 12 | 5 | 2 | 3 | |
| Peru (see table below) | D | 8 | 17 | 35 | 11 | 13 | 5 | 2 | 3 | |
| Senegal (see table below) | | 13 | 51 | 89 | 9 | 6 | 7 | | | |
| Siam..... | | | | | | | | | | |
| Bangkok..... | C | 4 | 7 | 3 | 1 | | | | 1 | |
| Straits Settlements: Singapore..... | C | 2 | 5 | 3 | 1 | | | | 1 | |
| Syria: Beirut..... | C | 1 | 1 | | | | | | | 1 |
| Tunisia..... | C | 1 | 1 | | | | | | | |
| Ukraine..... | C | 1 | 1 | | | | | | | |
| U.S.S.R.: Far district..... | C | | | 13 | 5 | 10 | 25 | 11 | 5 | 4 |
| Tunis..... | D | P | 10 | 25 | 5 | 8 | 25 | | | 0 |
| Turkey: Plague-infected rats..... | D | | 4 | | | | | | | 21 |
| Adalia..... | | | | | | | | | | |
| Constantinople..... | G | 1 | | | | | | | | |
| Union of Socialist Soviet Republics: | | | | | | | | | | |
| Caucasia..... | G | 2 | | | | | | | | |
| Kazaks..... | D | 7 | | | | | | | | |
| Ural-Kirghiz..... | G | 3 | | | | | | | | |
| Ural-Kirghiz..... | G | | | 1 | | | | | | |
| Union of South Africa: | | | | | | | | | | |
| Cape Province..... | G | 3 | | 17 | 2 | 11 | | 4 | | |
| Orange Free State..... | D | 2 | | 13 | 5 | | | | | |
| On vessel: | | | 1 | | | 4 | 3 | 1 | | |
| S. E. Chaban, at Port Said, from Jaffa..... | D | | | | | 1 | | | | |
| S. S. Tokio, at Shanghai, from Singapore..... | D | 1 | | | | | | | | |
| Steamship at Porto Novo, from Lagos..... | C | 1 | | 1 | | | | | | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued

[O indicates cases; D, deaths; P, present]

| Place | July, 1929 | Aug., 1929 | Sep-tem-ber, 1929 | Octo-ber, 1929 | No-vem-ber, 1929 | De-cem-ber, 1929 | Place | July, 1929 | Aug., 1929 | Sep-tem-ber, 1929 | Octo-ber, 1929 | No-vem-ber, 1929 | De-cem-ber, 1929 |
|---|------------|------------|-------------------|----------------|------------------|------------------|--|------------|------------|-------------------|----------------|------------------|------------------|
| British East Africa (see also table above): | | | | | | | | | | | | | |
| Kenya..... | 67 | 19 | 28 | 146 | 62 | | Madagascar (see also table above)—Contd. | 1 | 2 | 5 | 27 | | |
| Uganda..... | 1,203 | 866 | | | | | Moramanga Province..... | 2 | 2 | 4 | 27 | | |
| | 1 | 749 | 7 | 12 | 14 | | Tamatave Province..... | 2 | 2 | 7 | 5 | | |
| Ecuador: Guayaquil..... | | 1 | 3 | 4 | 3 | | Tananarive Province..... | 16 | 36 | 1 | 141 | | |
| Plague-infected rats..... | | 4 | 8 | 5 | 9 | | Peru..... | 16 | 34 | 135 | 132 | | |
| Greece (see also table above)..... | | 2 | 5 | 2 | 2 | | | 11 | | | | | |
| Indo-China (see also table above)..... | 3 | 1 | 2 | 2 | 1 | 10 | | 3 | | | | | |
| Madagascar (see also table above)..... | 37 | 9 | 195 | 203 | | | Senegal: | | | | | | |
| | 19 | 48 | 46 | 182 | 193 | | Baot'..... | 22 | 32 | 42 | 45 | 23 | 5 |
| Amboitra Province..... | 18 | 46 | 18 | 99 | 2 | | Dakar'..... | 9 | 13 | 24 | 13 | 16 | 2 |
| Antsirabe Province..... | | 9 | 9 | 9 | 2 | | Louga'..... | 62 | 76 | 26 | 3 | 17 | 8 |
| Itasy Province..... | 2 | 1 | 13 | 17 | | | Rufisque'..... | 45 | 65 | 17 | 2 | 5 | 1 |
| Majunga Province..... | 2 | 1 | 13 | 17 | | | Thies'..... | 59 | 121 | 106 | 41 | | |
| Miarinarivo..... | | | 5 | 5 | | | Tivaouane'..... | 39 | 70 | 64 | 24 | 1 | |
| | | 2 | 5 | 5 | | | | 7 | | | | | |
| | | 2 | 11 | 12 | | | | 61 | 53 | 34 | 3 | | |
| | | 2 | 11 | 12 | | | | 34 | 33 | 28 | 3 | | |
| | | | 11 | 11 | | | | 161 | 188 | 119 | 41 | 8 | |
| | | | | | | | | 96 | 119 | 55 | 21 | 4 | |

SMALLPOX

[C indicates cases; D, deaths; P, present]

| Place | June 30- July 27, 1929 | July 28- Aug. 24, 1929 | Aug. 25- Sept. 21, 1929 | Sept. 22- Oct. 19, 1929 | Week ended— | | | | | | | | | | Jan. 4, 1930 | | |
|--|------------------------------|------------------------------|-------------------------------|-------------------------------|----------------|---|----|----|----|----------------|----|----|----|----|-----------------|---|---|
| | | | | | November, 1929 | | | | | December, 1929 | | | | | | | |
| | | | | | 2 | 9 | 16 | 23 | 30 | 7 | 14 | 21 | 28 | | | | |
| Algeria: | | | | | | | | | | | | | | | | | |
| Algers..... | 7 | 1 | | 1 | | | 1 | | | | 1 | | 1 | | | | |
| Arabia: Aden..... | 103 | 38 | 4 | 3 | | | | 3 | | | | | | | | | |
| ..... | 56 | 37 | 1 | | | | 1 | | | | 1 | | 2 | | | | |
| Australia: Fremantle Quarantine Station..... | 1 | 3 | | 2 | | | 2 | | | | | | | | | | |
| Brazil: Porto Alegre..... | 10 | 5 | 9 | 3 | | | 7 | 18 | 15 | 6 | | | | | | | |
| British East Africa (see also table below): | | | | | | | | | | | | | | | | | |
| Tanganyika..... | D | | 1 | | | | | 4 | 3 | | | | | | | | |
| British South Africa: | | | | | | | | | | | | | | | | | |
| Northern Rhodesia..... | 73 | | | | | | | | | | | | | | | | |
| ..... | 4 | | | | | | | | | | | | | | | | |
| Southern Rhodesia..... | D | | | | | | | | | | | | | | | | |
| Canada: | | | | | | | | | | | | | | | | | |
| Alberta..... | | | | | | | | | | | | | | | | | |
| Calgary..... | | 4 | 4 | 1 | | | 4 | 1 | 5 | | | | 4 | 11 | 7 | 6 | 2 |
| Edmonton..... | | 2 | 2 | 1 | | | 4 | 1 | 5 | | | | 4 | 7 | 1 | 2 | 7 |
| British Columbia—Vancouver..... | 14 | 8 | 5 | 15 | | | 2 | 1 | 6 | | | | 1 | 6 | 1 | 6 | 2 |
| Manitoba..... | 1 | | | 1 | | | 1 | 1 | | | | | 6 | 6 | 2 | 3 | |
| New Brunswick..... | | 2 | | | | | | | | | | | | | | | |
| Ontario..... | 57 | 7 | 19 | 7 | | | 3 | 5 | 6 | 35 | 5 | 10 | 13 | 4 | 28 | | |
| London..... | | | | | | | 3 | 1 | | | | | | | | | |
| Niagara Falls..... | | | | | | | 3 | 1 | | | | | | | | | |
| North Bay..... | | | | | | | 1 | | | | | | | | | | |
| Ottawa..... | 7 | 3 | 7 | | | | 6 | | | | | | 1 | 1 | 1 | 4 | 3 |
| Saskatoon..... | 1 | 1 | | | | | | | | | | | 2 | | | | |
| Sarnia..... | | | | | | | | | | | | | | | | | |
| Toronto..... | 7 | 3 | | 1 | | | 1 | 1 | | | | | | | | | |
| Windsor..... | 2 | | | | | | 1 | 1 | | | | | | | | | |
| Prince Edward Island..... | | | | | | | | | | | | | | | | | |
| Quebec..... | 2 | 2 | | | | | | | | | | | | | | | |
| ..... | 3 | 1 | | 7 | | | 8 | 7 | 6 | 1 | 6 | 2 | 8 | 1 | 2 | | |
| Quebec: Riviere du Loup..... | 2 | 1 | | | | | | | | | | | | | | | |
| Saskatchewan..... | 2 | 1 | | | | | 9 | 1 | 1 | 9 | 9 | 7 | 15 | 18 | 10 | | |
| Saskatoon..... | 1 | 4 | 1 | 13 | | | 6 | 5 | 2 | | | | | | | | |

1 Incomplete reports.

| Place | June, 1929 | July, 1929 | August, 1929 | September, 1929 | October, 1929 | November, 1929 | December, 1929 |
|-----------------------------------|------------|------------|--------------|-----------------|---------------|----------------|----------------|
| Palestine..... | | | | | | | |
| Peru: Arequipa (see table below). | | | | | | | |
| Poland..... | | | | | | | |
| Portugal: | | | | | | | |
| Lisbon..... | | | | | | | |
| Oporto..... | | | | | | | |
| Rumania..... | | | | | | | |
| Tunisia (see table below). | | | | | | | |
| Turkey (see table below). | | | | | | | |
| Union of South Africa: | | | | | | | |
| Cape Provinces..... | | | | | | | |
| Natal..... | | | | | | | |
| Orange Free State..... | | | | | | | |
| Transvaal..... | | | | | | | |
| Yugoslavia (see table below). | | | | | | | |

| Place | June, 1929 | July, 1929 | August, 1929 | September, 1929 | October, 1929 | November, 1929 | December, 1929 |
|----------------------|------------|------------|--------------|-----------------|---------------|----------------|----------------|
| Canada: Ontario..... | 1 | | | | | | |
| Choson: Seoul..... | 2 | | | | | | |
| Czechoslovakia..... | 2 | | | | | | |
| France..... | 3 | | | | | | |
| Greece: Athens..... | 3 | | | | | | |
| Latvia..... | 5 | | | | | | |
| Lithuania..... | 27 | 10 | 7 | 3 | 6 | 4 | |
| Peru: Arequipa..... | 4 | 4 | 1 | 1 | 1 | 1 | |
| Turkey..... | 10 | 1 | 3 | 4 | 10 | 2 | |
| Yugoslavia..... | 3 | 3 | 7 | 1 | 1 | 1 | 5 |

! Press reports show that 10 deaths from typhus fever have occurred in Sao Paulo, Brazil, from Nov. 3 to 30, 1929.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

YELLOW FEVER

[C indicates cases; D, deaths; F, present]

| Place | June 2-29, 1929 | June 30-July 27, 1929 | July 28-Aug. 24, 1929 | Aug. 25-Sept. 21, 1929 | Sept. 22-Oct. 19, 1929 | Week ended— | | | | | | | | |
|------------------------|-----------------|-----------------------|-----------------------|------------------------|------------------------|----------------|---|----|----|----------------|---|----|----|---|
| | | | | | | November, 1929 | | | | December, 1929 | | | | |
| | | | | | | 2 | 9 | 16 | 23 | 30 | 7 | 14 | 21 | |
| Brazil: | | | | | | | | | | | | | | |
| Bahia..... | | 1 | | | | | | | | | | | | |
| Niteroy..... | | 1 | | 1 | | | | | | | | | | |
| Para..... | | 1 | | | | | | | | | | | | |
| Rio de Janeiro..... | | 7 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colombia: | | | | | | | | | | | | | | |
| Simacota..... | | 4 | | | | | | | | | | | | |
| Socorro 1..... | | 12 | | | | | | | | | | | | |
| Gold Coast: | | | | | | | | | | | | | | |
| Liberia: Monrovia..... | | 4 | 4 | 1 | | | | | | | | | | 1 |
| | | 3 | 1 | | | | | | | | | | | |

1 From June 19 to July 8, 1929, 41 cases of yellow fever with 23 deaths were reported in Socorro, Colombia.