

PUBLIC HEALTH REPORTS

VOL. 47

APRIL 8, 1932

NO. 15

TREND OF SMALLPOX INCIDENCE IN CIVILIZED COUNTRIES

An unparalleled reduction in the incidence of smallpox in most European countries since 1920 is indicated in reports received by the League of Nations.¹ Some of the reduction may be due to the classification of smallpox cases as alastrim, but as a whole the decline appears to be real.

A remarkable contrast is offered when we compare the United States and England with Continental Europe. In 1930, 46,712 cases of smallpox were reported in the United States, 11,839 in England and Wales, and 268 in Continental Europe (exclusive of Spain, Portugal, Greece, and Russia). Of these cases, 217 were reported from France. The League of Nations publishes a graph of reported prevalence in Europe, which is reproduced in Figure 1, together with the curve for the United States. The report makes the following comment: "The efficacy of smallpox vaccination in preventing and limiting smallpox outbreaks is clearly shown by the progressive decline or even the eradication of smallpox in countries of central and eastern Europe where vaccination has become general, while the disease still persists, or even spreads, in England and the United States, where vaccination is not in fact universally compulsory."

Great variability in the case fatality of the disease in different countries is noted; and there also seems to be a certain decrease in this fatality during the period under consideration.

The numbers of cases of smallpox reported in different countries during the period 1920-1930 are given in the accompanying table.

A number of countries (for instance India, Africa, China, South America) were omitted from this table because data as to reported cases were not available or were available for part of the period only. Omission of British India is particularly important. Reported cases of smallpox for that country can be secured from 1926 on, and are as follows: 1926, 221,156; 1927, 213,315; 1928, 181,864; 1929, 148,199; 1930, 215,204. The last two figures are provisional. The serious-

¹ Monthly Epidemiological Report, October, 1931.

ness of the smallpox problem in India is indicated by the fact that 48,860 deaths were reported from this cause in British India in 1930, as compared with about 600 from all other countries for which information as to mortality was available.

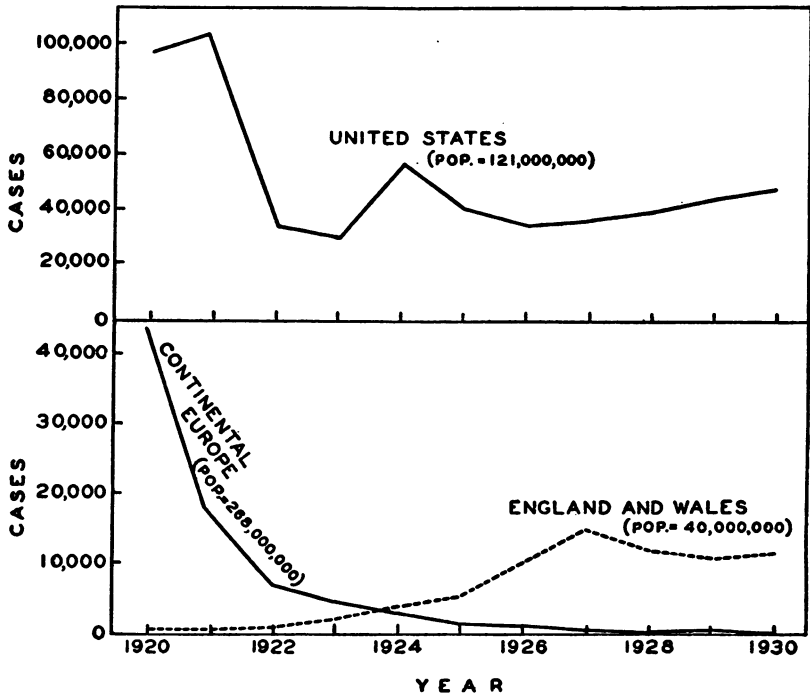


FIGURE 1.—Graphs representing the numbers of cases of smallpox reported in Continental Europe, England and Wales, and the United States, 1920-1930, showing the trend of the disease in those countries. (Continental Europe is exclusive of Spain, Portugal, Greece, and Russia)

TABLE 1.—Trend of smallpox (reported cases) in certain countries during the years 1920-1930

| Country | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 |
|------------------------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| EUROPE | | | | | | | | | | | |
| Germany..... | 2,042 | 688 | 215 | 17 | 16 | 24 | 7 | 4 | 2 | 1 | 2 |
| England and Wales..... | 280 | 336 | 973 | 2,504 | 3,797 | 5,365 | 10,146 | 14,767 | 12,420 | 10,968 | 11,839 |
| Austria..... | 253 | 18 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Belgium..... | 91 | 21 | 23 | 31 | 31 | 19 | 14 | 18 | 8 | 0 | 0 |
| Bulgaria..... | 527 | 22 | 24 | 20 | 5 | 0 | 1 | 2 | 0 | 0 | 0 |
| Denmark..... | 0 | 7 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scotland..... | 725 | 106 | 7 | 3 | 4 | 2 | 1 | 154 | 146 | 18 | 11 |
| Estonia..... | 435 | 136 | 50 | 13 | 4 | 5 | 6 | 9 | 3 | 0 | 0 |
| Finland..... | 77 | 27 | 91 | 12 | 1 | 2 | 1 | 0 | 2 | 1 | 1 |
| France..... | 392 | 341 | 172 | 195 | 210 | 456 | 554 | 410 | 153 | 84 | 217 |
| Italy..... | 26,453 | 4,644 | 534 | 495 | 432 | 195 | 112 | 60 | 52 | 8 | 2 |
| Latvia..... | 422 | 255 | 160 | 23 | 25 | 17 | 11 | 7 | 10 | 0 | 0 |
| Lithuania..... | 1,213 | 1,035 | 345 | 25 | 58 | 22 | 11 | 7 | 10 | 5 | 4 |
| Malta..... | 16 | 0 | 1 | 0 | 0 | 54 | 20 | 0 | 1 | 0 | 0 |
| Norway..... | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| Netherlands..... | 50 | 1 | 0 | 2 | 3 | 2 | 15 | 0 | 0 | 703 | 2 |
| Poland..... | 3,948 | 5,078 | 2,399 | 502 | 861 | 77 | 69 | 36 | 23 | 12 | 21 |
| Rumania..... | 3,467 | 2,744 | 865 | 89 | 9 | 28 | 6 | 4 | 10 | 4 | 5 |
| Sweden..... | 11 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |

TABLE 1.—Trend of smallpox (reported cases) in certain countries during the years 1920-1930—Continued

| Country | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 |
|--------------------------------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| EUROPE—continued | | | | | | | | | | | |
| Switzerland..... | 2 | 596 | 1,153 | 2,126 | 1,234 | 329 | 54 | 0 | 1 | 0 | 1 |
| Union of Socialist Soviet Republics: | | | | | | | | | | | |
| Ukraine..... | 34,730 | 28,123 | 11,095 | 3,710 | 1,188 | 501 | 277 | 168 | 116 | 55 | ----- |
| Other territories in Europe..... | 121,587 | 68,503 | 40,839 | 31,311 | 21,143 | 11,283 | 10,622 | 10,693 | 7,301 | 4,330 | 3,690 |
| Yugoslavia..... | 4,156 | 2,119 | 728 | 1,042 | 330 | 14 | 4 | 3 | 0 | 0 | 1 |
| Total European countries..... | 200,877 | 114,804 | 59,679 | 42,127 | 29,377 | 18,426 | 21,932 | 26,334 | 20,258 | 16,189 | 15,797 |
| AFRICA | | | | | | | | | | | |
| Egypt..... | 3,004 | 92 | 205 | 519 | 799 | 762 | 2,676 | 240 | 20 | 26 | 14 |
| AMERICA | | | | | | | | | | | |
| United States..... | 66,684 | 102,787 | 32,800 | 29,968 | 56,488 | 33,877 | 33,362 | 36,700 | 38,432 | 42,282 | 46,712 |
| ASIA | | | | | | | | | | | |
| Ceylon..... | 126 | 18 | 337 | 240 | 45 | 28 | 65 | 27 | 18 | 7 | 41 |
| Chosen..... | 11,532 | 8,316 | 3,676 | 3,722 | 439 | 699 | 1,010 | 627 | 250 | 523 | 1,419 |
| Netherland East Indies..... | 2,490 | 1,445 | 1,236 | 4,922 | 5,941 | 4,653 | 843 | 297 | 146 | 271 | 310 |
| Japan..... | 3,167 | 889 | 679 | 1,922 | 1,703 | 430 | 1,256 | 352 | 723 | 114 | 7 |
| Siam..... | 85 | 494 | 472 | 1,451 | 588 | 287 | 1,113 | 418 | 125 | 465 | 56 |
| AUSTRALASIA | | | | | | | | | | | |
| New Zealand..... | 95 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Countries outside Europe..... | 117,093 | 113,951 | 39,405 | 42,744 | 66,093 | 45,742 | 40,353 | 38,670 | 39,754 | 43,628 | 48,559 |
| Grand total..... | 317,970 | 228,755 | 99,084 | 84,871 | 95,380 | 64,168 | 62,287 | 65,004 | 60,012 | 53,817 | 64,356 |

RELATIVE INCIDENCE OF TYPHOID FEVER IN URBAN AND RURAL AREAS OF TENNESSEE¹

By D. F. MILAM, M. D., *Acting Director, Division of Preventable Diseases*, and ELBRIDGE SIBLEY, Ph. D., *Statistician, Tennessee Department of Public Health*

Some years ago Leach and Maxcy studied the relative incidence of typhoid fever in population units of various sizes in Alabama.² It was brought out that in Alabama the very lowest case and death rates occurred in the country and unincorporated towns; the highest rates occurred in towns of 500 to 1,000 population, with progressively lower rates in towns in each of the larger population groups. These findings fitted in with the idea that in the small town "communal living is most primitive and sanitary safeguards are least in evidence."

In Tennessee it has been observed for many years that typhoid fever is state-wide in its distribution and that epidemics of water-borne typhoid fever in cities and towns are comparatively rare. Central water supplies in this State are numerous and, with few exceptions, are of good quality. On the other hand, it is well known that the disposal of excreta is in a far from satisfactory status, not only in the small towns but also in the outlying sections of many if not most of the cities. Certainly among the rural homes of many counties, even those with full-time health departments, the average level of environmental sanitation is not high.

In the light of these facts it seemed worth while to test the hypothesis that typhoid fever is most prevalent in the small towns in Tennessee

¹ Read before the Fifth Annual Conference of Tennessee Public Health Workers, Nashville, Jan. 20, 1932.

² Public Health Reports, 41: 705, ff, Apr. 16, 1926.

by a careful study of the available records. Death records seem to offer the most trustworthy source of information. Morbidity records in Tennessee have been greatly improved in recent years and since 1926 have been very informative; but since the fatality rate in reported cases of typhoid fever in Tennessee is nearly 20 per cent, it is believed that not more than one-half the actual cases are reported, and the distribution of these reported cases might be such as to mask the true picture with regard to the localities where typhoid fever is occurring. Our case reports omit the address of patient in many instances, and information of the type here wanted is not obtainable from them.

For these reasons it was decided to base the investigation on death records alone. Reported deaths from typhoid fever in Tennessee in the three years 1928, 1929, and 1930 numbered, respectively, 346, 307, and 319. Prior to 1928 there were nearer 600 yearly. It was decided to limit the present study to the three years 1928-1930, inclusive. In going over the death certificates it was found that the information given on about half of them did not definitely indicate whether or not the decedent lived within an incorporated town. In many instances it was not evident whether the death took place in a rural area, in an unincorporated town, or in the suburbs outside the city limits of an incorporated city. In the larger cities many decedents from typhoid fever come from neighboring rural areas and are hospitalized in the city after contracting the disease elsewhere. Some allowance for this fact should be made.

It was finally planned to send a questionnaire on each death record considered incomplete for the information desired, and such a questionnaire was sent for every death in a civil district containing an incorporated town or city, unless the death certificate explicitly stated that the decedent did not live in such a town or city. This criterion was responsible for the large proportion of deaths that had to be queried. The questionnaires were sent to the county health officers in counties with full-time health departments, and to local registrars of deaths in the counties without full-time health organizations.

Parenthetically it may be stated that the response was much better from the registrars than from the county health officers. In some cases two follow-up letters were necessary to complete returns. In addition, several explanatory letters had to be sent in regard to certain classes of deaths. In the end, however, the information assembled was considered fairly accurate.

FINDINGS

The data assembled are shown in Table 1, the population groups, for easy comparison, being made the same as those used in the Alabama report. The information is tabulated for each year separately and for the three years combined. The chart presents the findings for the three years combined.

Table 1 shows that, after correction for place of residence in the manner already described, the death rate of typhoid fever in Tennessee for the three years 1928-1930 was highest for unincorporated areas and lowest for the largest cities. Among incorporated places of different sizes, the actual data show, in general, a slight increase of the death rate with increasing size of towns, up to the group of 2,500-4,999 population, beyond which the death rate decreases with increasing size of towns and cities. There is an unexpectedly low death rate for towns of 500-999 population.

The 682 deaths assigned to unincorporated areas included the deaths of 47 persons residing in the suburban zones surrounding incorporated cities and towns. The remaining 635 included persons living on farms, in unincorporated villages, in mining and construction camps, etc.—in short, in places where the sanitary environment is not under municipal control. Since suburban areas have no definite boundaries and their population is not on record, it is not possible to make adjustment of the death rate for residents of this class of unincorporated territory; but in any case it is safe to say that the rural death rate is higher than the rate for incorporated places.

Accepting the figures at par value, the conclusions would be reached that typhoid fever in Tennessee is most heavily incident in rural districts; that incorporated towns of less than 1,000 inhabitants occupy a more favorable position than either rural areas or slightly larger towns; that towns of between 1,000 and 10,000 population have nearly as high a resident death rate as the rural areas; and lastly, that typhoid fever is much better controlled in cities of 10,000 and over than in any other class of communities.

TABLE 1.—Typhoid fever deaths and death rates in Tennessee, allocated to usual places of residence of decedents, by size of communities, 1928-1930 (data corrected by special questionnaires)

| | Population 1930 census | Death rate per 100,000 population ¹ | | | Number of deaths | | | | |
|---|------------------------------|---|-------|-------|------------------|------------------------|------|------|------|
| | | Mean rate 1928-1930 and its probable error ² | 1930 | 1929 | 1928 | Total 1928- 1930 | 1930 | 1929 | 1928 |
| The State ³ | 2,616,556 | 12.4±0.3 | 12.4 | 11.7 | 13.2 | 977 | 324 | 307 | 346 |
| Unincorporated areas..... | 1,584,182 | 14.3±.4 | 15.3 | 13.3 | 14.4 | 682 | 243 | 211 | 228 |
| Incorporated towns and cities, total..... | 1,032,374 | 7.6±.3 | 5.5 | 8.2 | 9.1 | 236 | 57 | 85 | 94 |
| 0-499..... | 22,162 | 10.5±2.7 | 18.0 | 9.0 | 4.5 | 7 | 4 | 2 | 1 |
| 500-999..... | 41,665 | 6.4±1.5 | 9.6 | 4.8 | 4.8 | 8 | 4 | 2 | 2 |
| 1,000-2,499..... | 72,008 | 10.6±1.5 | 11.1 | 11.1 | 9.7 | 23 | 8 | 8 | 7 |
| 2,500-4,999..... | 93,574 | 12.8±1.4 | 8.5 | 15.0 | 15.0 | 36 | 8 | 14 | 14 |
| 5,000-9,999..... | 99,184 | 11.8±1.4 | 9.1 | 12.1 | 14.1 | 35 | 9 | 12 | 14 |
| 10,000-24,999..... | 46,091 | 9.4±1.8 | 2.2 | 13.0 | 13.0 | 13 | 1 | 6 | 6 |
| 25,000 and over..... | 657,689 | 5.8±.4 | 3.5 | 6.2 | 7.6 | 114 | 23 | 41 | 50 |
| Residents of other States..... | ----- | ----- | ----- | ----- | ----- | 17 | 8 | 5 | 4 |
| Place of residence unknown..... | ----- | ----- | ----- | ----- | ----- | 42 | 16 | 6 | 20 |
| Suburban areas (included in "Un- incorporated")..... | ----- | ----- | ----- | ----- | ----- | 47 | 14 | 17 | 16 |

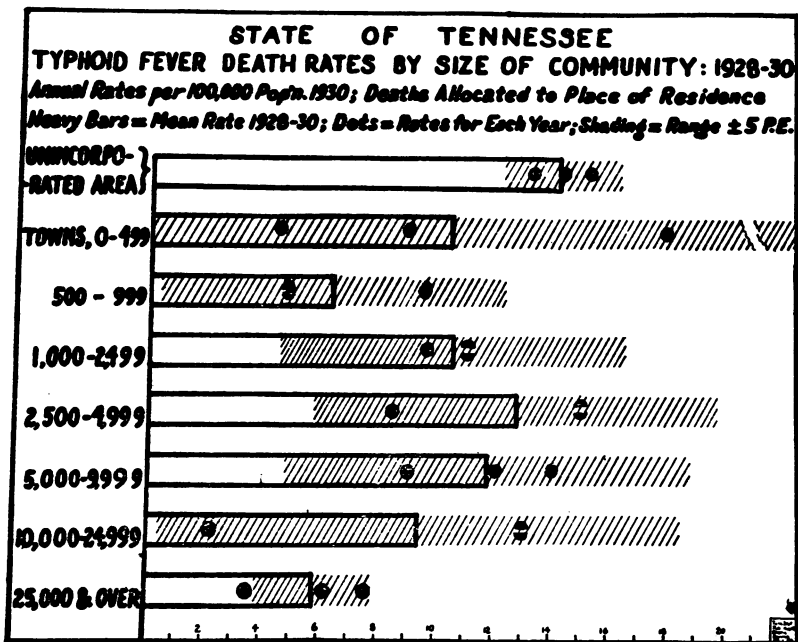
¹ All rates are based on 1930 census.

² See discussion in text on the meaning of the probable error.

³ Including nonresidents.

However, the probable error of the death rate³ for each class of community except the unincorporated area and the cities of over 25,000 is so large as to preclude any positive inferences from slight differences in rates. The probable error, it may be explained, indicates only the unreliability of the death rate which arises from the limited size of the population. In addition, there may be an imponderable bias due to incompleteness or inaccuracy of death registration.

Taking into account the rather wide limits of accuracy of the actual



Typhoid fever death rates in Tennessee by size of community, 1928-1930.

rates, the final conclusions must be carefully restricted. The following results seem reasonably well established by the present study:

1. The highest mortality from typhoid fever in Tennessee occurs in that part of the population whose environment is not subject to municipal sanitary control.

2. Typhoid fever control is not very effectively practiced in the towns and cities of less than 25,000 population, as indicated by the fact that residents of these places experienced a typhoid fever death rate only slightly lower than that of rural residents and much higher than the death rate of residents of the larger cities.

³ The probable errors of the mean annual death rates for the 3-year period were computed by the Bernoulli formula:

$$P. E. = \pm \frac{.6745 \sqrt{\frac{\text{deaths} \times \text{survivals}}{\text{population}}}}{3 \times \text{population}}$$

3. The typhoid fever death rate is less than one-half as great in residents of cities of over 25,000 as in residents of unincorporated areas.

4. The data collected do not reveal statistically reliable differences among the typhoid fever death rates for groups of communities ranging from less than 500 to 10,000-24,999 population, although the rate for towns of 2,500-4,999 was actually the highest by a slight margin.

DISCUSSION

The present study only partially confirms the belief that the small town is the place where "communal living is most primitive and sanitary safeguards are least in evidence."⁴ The definition of a small town would have to be extended, as related to Tennessee, to include places of at least as many as 10,000 inhabitants; and exception must be made for unincorporated areas, to which the description seems to apply in the highest degree. It would seem desirable to try to find out the relative incidence of typhoid fever in suburbs, unincorporated villages, and other kinds of places beyond the scope of municipal governments. There is ample circumstantial evidence for the belief that the less-favored suburbs of cities are places of very high typhoid fever incidence.

Public water supplies, of which there are about 160 in Tennessee, are quite evidently not important means of disseminating typhoid infection. Twelve public water supplies are classified as "unsafe" or "doubtful" in a recent compilation by the division of sanitary engineering of the State health department. During 1928, 1929, and 1930 no resident of the 12 towns having unsatisfactory water supplies was reported to have died from typhoid fever.

Available data on public sewerage systems are not complete enough for correlation with the facts already presented.

TABLE 2.—Typhoid fever deaths in Tennessee, allocated to place named on death certificate, and reallocated after querying for usual place of residence, 1930

| | Death rate per 100,000 population * | | Number of deaths | | Net change (per cent of crude figure) |
|---|-------------------------------------|---------|------------------|---------|---------------------------------------|
| | Corrected | Crude * | Corrected | Crude * | |
| The State | 12.4 | 12.4 | 324 | 324 | 0 |
| Unincorporated areas..... | 15.3 | 11.4 | 243 | 180 | +35 |
| Incorporated towns and cities, total..... | 5.5 | 13.6 | 57 | 140 | -59 |
| 0-499..... | 18.0 | 27.1 | 4 | 6 | -33 |
| 500-999..... | 9.6 | 50.4 | 4 | 21 | -81 |
| 1,000-2,499..... | 11.1 | 27.8 | 8 | 20 | -60 |
| 2,500-4,999..... | 8.5 | 28.9 | 8 | 27 | -70 |
| 5,000-9,999..... | 9.1 | 20.2 | 9 | 20 | -55 |
| 10,000-24,999..... | 2.2 | 15.2 | 1 | 7 | -88 |
| 25,000 and over..... | 3.5 | 5.9 | 23 | 39 | -41 |
| Residents of other States..... | | | 8 | 4 | +100 |
| Unknown..... | | | 16 | | |

* Based on 1930 census.

• See text for exact details of crude and corrected data.

• Including nonresidents.

⁴Leach and Maxcy, *loc. cit.*

It may be of interest to record the amount of change brought about by queries as to places of residence of decedents. Table 2 shows for 1930, a comparison of the death rates in the several classes of communities, firstly as compiled from explicit statements on the death certificates, and secondly as corrected by questionnaire returns. In the first instance, death certificates bearing the name of an incorporated town were assigned to that town unless a rural route number was given or the decedent was stated to be a nonresident. The relative errors indicated by the corrected figures are greatest for cities of less than 25,000. Not only is the fact of nonresidence often omitted from death certificates filed in cities, but also there is a rather prevalent habit of recording post-office address rather than actual place of death. Both of these tendencies lead to a spuriously high number of deaths attributed to towns and cities. On the other hand, it was found that in a number of instances the name of the city in which a death occurred was not entered on the certificate, only the civil district number being given. The study has amply demonstrated the fallaciousness of accepting without question the indications as to place of death or place of residence given on death certificates.

COURT DECISION RELATING TO PUBLIC HEALTH

Milk law construed.—(District of Columbia Court of Appeals; *Leaman et al. v. District of Columbia*, 60 Washington Law Reporter 116; decided Jan. 18, 1932.) An act of Congress approved February 27, 1925, provided, among other things, that no person should bring or send into the District of Columbia for sale any milk, cream, or ice cream without a permit so to do from the District health officer. The statute was lengthy, and its purpose, as stated by the court of appeals, "unquestionably was to prevent, through a careful regulation of production conditions, the sale in the District of impure milk and cream." The question presented for decision was whether two articles designated as "Pantry Table Cream" and "Pantry Whipping Cream" could be brought into the District and sold therein without the permit required by the statute. The evidence showed that "Pantry Cream" was sterilized cream sold in hermetically sealed cans. The statute in question defined cream as that portion of milk rich in fat which rise to the surface on standing or is separated from it by centrifugal force, or otherwise, and which contains not less than 20 per cent of butterfat. The evidence showed that the canned product was cream in all respects as that term was defined in the law, and the lower court was of the opinion that the act had been violated, because a literal interpretation brought the product within its terms. But the plaintiffs in error argued that Congress did not intend that

the act should be so construed as to make it applicable to cream which had been sterilized and placed in hermetically sealed cans. In other words, they contended that the process of sterilization plus the canning met all the objects of the statute, and that, therefore, this new method, nonexistent when the law was passed, should not now be considered as within its terms. The court of appeals did not take this view, however, but held that the product in question was within the terms of the statute, saying, in part, as follows:

* * * the boast of plaintiffs in error is that it [the canned product] is pure cream—pure because by sterilization all impurities are destroyed, and cream because it is that portion of the milk, to which nothing is added and from which nothing is taken, that rises to the surface or is otherwise separated, and contains the requisite per centum of butterfat. In its sterilized cans it is still cream, and it is not claimed, and will not be, that anything in the processing has changed its nature or its form. It is, therefore, the precise thing which Congress has said may not be brought into the District or sold there without a permit. To hold differently would be to say that, because the process adopted accomplishes the ends which Congress had in view, the unmistakable language of the statute and its requirements must be ignored. This we may not do, for, if the plain words of the statute leave no room for construction, the courts have no choice but to follow it without regard to the consequences. * * *

It can not, therefore, be claimed that the act, as we construe it, is unreasonable, oppressive, or absurd. The intent, as we have already said, is to protect the public health, and the object is to secure this by control and supervision. If the product by sterilization and sealing meets the requirements of the statute, and this is claimed, there is, of course, no reason to suppose it will be denied access to the markets of the District. If it does not, then to open those markets to its sale without let or hindrance, because of the adoption of a trade name by which the product may be distinguished from other cream, would simply invite demoralization and render the law abortive.

DEATHS DURING WEEK ENDED MARCH 19, 1932

Summary of information received by telegraph from industrial insurance companies for the week ended March 19, 1932, and corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

| | Week ended Mar. 19, 1932 | Correspond- ing week, 1931 |
|--|-----------------------------|-------------------------------|
| Policies in force..... | 73, 791, 756 | 75, 080, 202 |
| Number of death claims..... | 16, 289 | 15, 823 |
| Death claims per 1,000 policies in force, annual rate..... | 11. 5 | 11. 0 |
| Death claims per 1,000 policies, first 11 weeks of year, annual rate..... | 10. 2 | 11. 3 |

Deaths¹ from all causes in certain large cities of the United States during the week ended March 19, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

[The rates published in this summary are based upon mid-year population estimates derived from the 1930 census]

| City | Week ended Mar. 19, 1932 | | | | Corresponding week, 1931 | | Death rate ² for the first 11 weeks | |
|------------------------|--------------------------|-------------------------|---------------------|------------------------------------|--------------------------|---------------------|--|------|
| | Total deaths | Death rate ² | Deaths under 1 year | Infant mortality rate ³ | Death rate ¹ | Deaths under 1 year | 1932 | 1931 |
| Total (85 cities)..... | 9,777 | 13.9 | 725 | 4.60 | 13.5 | .897 | 12.5 | 14.1 |
| Akron..... | 48 | 9.4 | 7 | 87 | 9.3 | 3 | 8.1 | 8.7 |
| Albany..... | 43 | 17.2 | 1 | 20 | 14.5 | 1 | 14.5 | 15.5 |
| Atlanta..... | 88 | 16.2 | 7 | 68 | 16.5 | 6 | 14.4 | 16.8 |
| White..... | 42 | 11.7 | 5 | 74 | 12.4 | 3 | 11.2 | 13.7 |
| Colored..... | 46 | 25.1 | 2 | 57 | 24.6 | 3 | 20.6 | 23.0 |
| Baltimore..... | 280 | 17.8 | 14 | 50 | 17.7 | 37 | 14.7 | 17.8 |
| White..... | 214 | 16.7 | 8 | 38 | 16.0 | 20 | 13.6 | 16.5 |
| Colored..... | 66 | 23.0 | 6 | 66 | 25.2 | 17 | 19.7 | 23.9 |
| Birmingham..... | 64 | 12.1 | 9 | 94 | 18.6 | 11 | 12.5 | 15.3 |
| White..... | 33 | 10.0 | 4 | 66 | 14.7 | 5 | 10.4 | 11.8 |
| Colored..... | 31 | 15.4 | 5 | 135 | 24.9 | 6 | 15.8 | 21.0 |
| Boston..... | 241 | 16.0 | 29 | 83 | 14.6 | 16 | 15.3 | 16.8 |
| Bridgeport..... | 52 | 18.4 | 4 | 71 | 13.8 | 3 | 12.5 | 13.7 |
| Buffalo..... | 188 | 16.7 | 19 | 91 | 16.4 | 17 | 13.6 | 15.5 |
| Cambridge..... | 43 | 19.6 | 2 | 41 | 13.3 | 3 | 14.2 | 13.9 |
| Camden..... | 31 | 13.6 | 1 | 18 | 13.4 | 14 | 15.4 | 18.5 |
| Canton..... | 27 | 13.0 | 2 | 50 | 12.7 | 5 | 10.5 | 11.6 |
| Chicago..... | 739 | 11.0 | 56 | 55 | 11.0 | 70 | 11.1 | 12.2 |
| Cincinnati..... | 181 | 20.5 | 14 | 80 | 19.9 | 10 | 16.6 | 18.4 |
| Cleveland..... | 262 | 14.9 | 28 | 91 | 12.8 | 17 | 11.6 | 12.6 |
| Columbus..... | 87 | 15.2 | 11 | 111 | 12.7 | 11 | 15.0 | 14.7 |
| Dallas..... | 72 | 13.3 | 8 | ----- | 12.6 | 4 | 11.8 | 12.5 |
| White..... | 62 | 13.9 | 7 | ----- | 10.2 | 3 | 11.2 | 11.0 |
| Colored..... | 10 | 10.7 | 1 | ----- | 24.2 | 1 | 14.6 | 19.6 |
| Dayton..... | 61 | 13.4 | 0 | 0 | 11.9 | 3 | 11.9 | 12.7 |
| Denver..... | 117 | 20.8 | 9 | 88 | 14.8 | 4 | 17.3 | 15.9 |
| Des Moines..... | 36 | 12.9 | 6 | 103 | 16.2 | 1 | 11.9 | 12.7 |
| Detroit..... | 319 | 9.7 | 28 | 50 | 9.3 | 42 | 8.8 | 9.8 |
| Duluth..... | 30 | 15.4 | 2 | 58 | 10.8 | 3 | 10.3 | 12.2 |
| El Paso..... | 32 | 15.6 | 6 | ----- | 13.4 | 6 | 15.1 | 18.0 |
| Erie..... | 42 | 18.4 | 5 | 106 | 9.7 | 3 | 11.8 | 11.3 |
| Evansville..... | 20 | 9.9 | 0 | 0 | 14.5 | 6 | 10.2 | 12.0 |
| Fall River..... | 36 | 16.3 | 3 | 80 | 15.4 | 2 | 13.2 | 14.1 |
| Flint..... | 26 | 8.0 | 3 | 44 | 7.0 | 2 | 9.0 | 8.0 |
| Fort Wayne..... | 19 | 8.2 | 2 | 52 | 13.2 | 1 | 10.8 | 11.9 |
| Fort Worth..... | 43 | 13.2 | 3 | ----- | 14.3 | 7 | 10.7 | 11.9 |
| White..... | 34 | 12.3 | 3 | ----- | 13.4 | 6 | 10.3 | 11.4 |
| Colored..... | 9 | 17.6 | 0 | ----- | 19.2 | 1 | 13.0 | 14.3 |
| Grand Rapids..... | 49 | 14.7 | 5 | 85 | 11.2 | 5 | 9.6 | 10.1 |
| Houston..... | 65 | 10.5 | 7 | ----- | 8.4 | 2 | 11.0 | 11.9 |
| White..... | 48 | 10.5 | 5 | ----- | 6.9 | 2 | 10.4 | 10.9 |
| Colored..... | 17 | 10.4 | 2 | ----- | 12.6 | 0 | 12.5 | 14.4 |
| Indianapolis..... | 118 | 16.5 | 5 | 41 | 16.4 | 13 | 14.2 | 15.6 |
| White..... | 102 | 16.2 | 5 | 46 | 15.4 | 5 | 13.6 | 15.0 |
| Colored..... | 16 | 18.1 | 0 | 0 | 23.1 | 8 | 18.1 | 19.7 |
| Jersey City..... | 96 | 15.6 | 5 | 41 | 10.8 | 12 | 11.8 | 14.0 |
| Kansas City, Kans..... | 35 | 14.8 | 1 | 22 | 12.7 | 3 | 13.5 | 16.7 |
| White..... | 27 | 14.1 | 1 | 27 | 12.1 | 3 | 13.2 | 15.1 |
| Colored..... | 8 | 17.6 | 0 | 0 | 15.5 | 0 | 14.6 | 23.4 |
| Kansas City, Mo..... | 103 | 12.9 | 4 | 45 | 16.1 | 11 | 13.1 | 15.8 |
| White..... | 31 | 14.5 | 0 | 0 | 12.9 | 3 | 12.1 | 14.8 |
| Colored..... | 19 | 10.6 | 0 | 0 | 9.7 | 3 | 11.2 | 13.5 |
| Colored..... | 12 | 34.3 | 0 | 0 | 29.3 | 0 | 16.9 | 21.0 |
| Long Beach..... | 34 | 11.0 | 0 | 0 | 13.7 | 1 | 10.8 | 10.5 |
| Los Angeles..... | 295 | 11.2 | 25 | 74 | 10.8 | 22 | 12.2 | 11.9 |
| Louisville..... | 115 | 19.5 | 5 | 46 | 10.3 | 6 | 14.7 | 18.5 |
| White..... | 84 | 16.8 | 3 | 21 | 9.2 | 4 | 12.9 | 16.6 |
| Colored..... | 31 | 33.9 | 2 | 224 | 16.4 | 2 | 24.1 | 29.2 |
| Lowell..... | 26 | 13.6 | 2 | 52 | 15.6 | 5 | 14.7 | 15.1 |
| Lynn..... | 31 | 15.7 | 1 | 28 | 14.7 | 1 | 12.1 | 13.1 |
| Memphis..... | 81 | 19.1 | 8 | 87 | 14.1 | 8 | 16.8 | 17.6 |
| White..... | 36 | 11.6 | 4 | 68 | 9.8 | 1 | 12.7 | 14.9 |
| Colored..... | 45 | 23.4 | 4 | 120 | 21.1 | 7 | 23.4 | 21.9 |
| Miami..... | 34 | 15.6 | 3 | 84 | 13.0 | 4 | 12.8 | 14.5 |
| White..... | 19 | 11.2 | 1 | 39 | 13.2 | 3 | 12.0 | 13.8 |
| Colored..... | 15 | 31.0 | 2 | 201 | 12.4 | 1 | 15.4 | 16.9 |

See footnotes at end of table.

Deaths¹ from all causes in certain large cities of the United States during the week ended March 19, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued

| City | Week ended Mar. 19, 1932 | | | | Corresponding week, 1931 | | Death rate ² for the first 11 weeks | |
|--------------------------------|--------------------------|-------------------------|---------------------|------------------------------------|--------------------------|---------------------|--|------|
| | Total deaths | Death rate ³ | Deaths under 1 year | Infant mortality rate ³ | Death rate ² | Deaths under 1 year | 1932 | 1931 |
| Milwaukee | 108 | 9.4 | 6 | 29 | 10.0 | 15 | 9.7 | 10.9 |
| Minneapolis | 116 | 12.6 | 19 | 124 | 13.3 | 17 | 11.7 | 12.4 |
| Nashville ⁴ | 67 | 22.3 | 3 | 45 | 17.8 | 3 | 15.2 | 18.5 |
| White | 49 | 22.5 | 3 | 59 | 17.6 | 3 | 14.6 | 16.2 |
| Colored | 18 | 21.9 | 0 | 0 | 18.3 | 0 | 16.8 | 24.6 |
| New Bedford ⁷ | 27 | 12.5 | 7 | 201 | 13.9 | 6 | 13.1 | 13.3 |
| New Haven | 48 | 15.4 | 0 | 0 | 13.1 | 1 | 12.9 | 13.8 |
| New Orleans ⁴ | 164 | 18.1 | 16 | 91 | 19.9 | 14 | 15.8 | 19.6 |
| White | 100 | 15.5 | 13 | 113 | 15.4 | 5 | 13.3 | 16.1 |
| Colored | 64 | 24.4 | 3 | 49 | 31.0 | 9 | 22.0 | 28.4 |
| New York | 1,932 | 14.0 | 118 | 53 | 12.6 | 170 | 11.8 | 13.8 |
| Bronx Boro. | 292 | 11.0 | 18 | 52 | 8.8 | 24 | 9.0 | 10.0 |
| Brooklyn Boro. | 688 | 13.4 | 43 | 48 | 12.2 | 64 | 11.0 | 12.9 |
| Manhattan Boro. | 700 | 20.6 | 43 | 61 | 19.1 | 65 | 17.9 | 20.9 |
| Queens Boro. | 200 | 8.6 | 12 | 50 | 8.2 | 16 | 7.6 | 9.1 |
| Richmond Boro. | 52 | 16.2 | 2 | 39 | 10.5 | 1 | 14.8 | 14.6 |
| Newark, N. J. | 127 | 14.8 | 9 | 49 | 12.9 | 11 | 11.9 | 14.1 |
| Oakland | 65 | 11.4 | 4 | 50 | 13.7 | 3 | 11.9 | 12.2 |
| Oklahoma City | 56 | 14.2 | 7 | 96 | 13.0 | 8 | 10.3 | 11.9 |
| Omaha | 65 | 15.5 | 6 | 68 | 15.9 | 5 | 15.4 | 14.7 |
| Paterson | 50 | 18.8 | 6 | 109 | 15.8 | 1 | 13.5 | 16.5 |
| Peoria | 20 | 14.1 | 1 | 28 | 6.7 | 3 | 13.0 | 14.1 |
| Philadelphia | 567 | 15.0 | 51 | 79 | 15.4 | 59 | 13.2 | 16.5 |
| Pittsburgh | 205 | 15.7 | 15 | 69 | 17.0 | 23 | 15.4 | 18.3 |
| Portland, Oreg. | 77 | 12.9 | 2 | 26 | 15.5 | 4 | 12.7 | 13.1 |
| Providence | 77 | 15.7 | 7 | 68 | 15.3 | 6 | 15.0 | 15.9 |
| Richmond ⁶ | 44 | 12.4 | 3 | 45 | 17.0 | 9 | 15.0 | 18.3 |
| White | 22 | 8.7 | 3 | 67 | 16.3 | 6 | 12.5 | 15.4 |
| Colored | 22 | 21.8 | 0 | 0 | 18.7 | 3 | 21.2 | 25.4 |
| Rochester | 59 | 13.9 | 4 | 38 | 13.7 | 9 | 12.5 | 14.1 |
| St. Louis | 236 | 14.8 | 19 | 68 | 17.1 | 11 | 14.2 | 18.6 |
| St. Paul | 64 | 12.0 | 4 | 43 | 16.6 | 7 | 11.2 | 11.8 |
| Salt Lake City ⁴ | 34 | 12.2 | 5 | 79 | 14.2 | 1 | 12.1 | 12.7 |
| San Antonio | 65 | 13.8 | 9 | — | 14.1 | 11 | 15.1 | 15.3 |
| San Diego | 41 | 13.1 | 1 | 22 | 14.3 | 2 | 16.8 | 15.7 |
| San Francisco | 166 | 13.1 | 6 | 42 | 14.2 | 8 | 14.3 | 14.9 |
| Schenectady | 22 | 11.9 | 0 | 0 | 11.9 | 2 | 11.3 | 12.1 |
| Seattle | 89 | 12.4 | 5 | 50 | 14.9 | 4 | 12.5 | 13.3 |
| Somerville | 19 | 9.3 | 0 | 0 | 11.4 | 1 | 9.8 | 11.9 |
| South Bend | 18 | 8.5 | 1 | 29 | 12.1 | 2 | 8.4 | 9.3 |
| Spokane | 37 | 16.5 | 2 | 53 | 19.7 | 4 | 12.8 | 13.4 |
| Springfield, Mass. | 37 | 12.5 | 1 | 17 | 10.9 | 2 | 11.9 | 14.3 |
| Syracuse | 50 | 12.1 | 4 | 52 | 14.9 | 8 | 11.9 | 13.1 |
| Tacoma | 30 | 14.5 | 1 | 28 | 16.0 | 1 | 12.3 | 15.3 |
| Tampa ⁶ | 30 | 14.5 | 1 | 29 | 9.4 | 2 | 12.5 | 15.1 |
| White | 25 | 15.3 | 1 | 35 | 10.7 | 2 | 12.3 | 13.7 |
| Colored | 5 | 11.5 | 0 | 0 | 4.7 | 0 | 13.3 | 20.3 |
| Toledo | 95 | 16.5 | 5 | 54 | 16.0 | 12 | 13.3 | 13.8 |
| Trenton | 57 | 24.0 | 1 | 20 | 14.7 | 1 | 16.3 | 19.2 |
| Utica | 36 | 18.3 | 1 | 28 | 16.3 | 1 | 15.8 | 16.7 |
| Washington, D. C. ⁶ | 195 | 20.6 | 6 | 34 | 18.9 | 21 | 17.1 | 18.8 |
| White | 130 | 19.0 | 4 | 33 | 16.0 | 14 | 15.5 | 16.3 |
| Colored | 65 | 24.9 | 2 | 36 | 26.7 | 7 | 21.1 | 25.4 |
| Waterbury | 30 | 15.4 | 4 | 132 | 10.3 | 7 | 10.2 | 11.3 |
| Wilmington, Del. ⁷ | 40 | 19.6 | 2 | 45 | 16.6 | 2 | 17.6 | 16.8 |
| Worcester | 69 | 18.2 | 4 | 56 | 16.9 | 6 | 13.6 | 15.5 |
| Yonkers | 29 | 10.7 | 6 | 155 | 13.5 | 4 | 7.8 | 11.0 |
| Youngstown | 34 | 10.1 | 3 | 49 | 13.0 | 7 | 10.5 | 12.1 |

¹ Deaths of nonresidents are included. Stillbirths are excluded.

² These rates represent annual rates per 1,000 population, as estimated for 1932 and 1931 by the arithmetical method.

³ Deaths under 1 year of age per 1,000 estimated live births. Cities left blank are not in the registration area for births.

⁴ Data for 80 cities.

⁵ Deaths for week ended Friday.

⁶ For the cities for which deaths are shown by color the percentages of colored population in 1930 were as follows: Atlanta, 33; Baltimore, 18; Birmingham, 38; Dallas, 17; Fort Worth, 16; Houston, 27; Indianapolis, 12; Kansas City, Kans., 19; Knoxville, 16; Louisville, 15; Memphis, 38; Miami, 23; Nashville, 28; New Orleans, 29; Richmond, 29; Tampa, 21; and Washington, D. C., 27.

⁷ Population Apr. 1, 1930; decreased 1920 to 1930, no estimate made.

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 March 26, 1932, and March 28, 1931

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 26, 1932, and March 28, 1931

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 |
| New England States: | | | | | | | | |
| Maine..... | 3 | 3 | 16 | 12 | 286 | 50 | 0 | 1 |
| New Hampshire..... | | | | 1 | 8 | 55 | 0 | 0 |
| Vermont..... | 2 | | | | 70 | 5 | 0 | 0 |
| Massachusetts..... | 42 | 42 | 16 | 5 | 514 | 430 | 4 | 1 |
| Rhode Island..... | 11 | 3 | | | 254 | 32 | 0 | 0 |
| Connecticut..... | 7 | 6 | 38 | 36 | 154 | 870 | 1 | 1 |
| Middle Atlantic States: | | | | | | | | |
| New York..... | 116 | 142 | 197 | 124 | 2,255 | 2,269 | 5 | 12 |
| New Jersey..... | 32 | 68 | 164 | 23 | 339 | 820 | 0 | 5 |
| Pennsylvania..... | 84 | 88 | | | 1,681 | 3,905 | 3 | 18 |
| East North Central States: | | | | | | | | |
| Ohio..... | 40 | 25 | 94 | 177 | 618 | 721 | 6 | 5 |
| Indiana..... | 24 | 32 | 186 | 46 | 72 | 848 | 12 | 6 |
| Illinois..... | 82 | 133 | 145 | | 365 | 1,386 | 3 | 18 |
| Michigan..... | 27 | 38 | 71 | 47 | 906 | 127 | 6 | 6 |
| Wisconsin..... | 13 | 13 | 505 | 204 | 570 | 660 | 1 | 8 |
| West North Central States: | | | | | | | | |
| Minnesota..... | 6 | 23 | 5 | 1 | 20 | 129 | 3 | 0 |
| Iowa..... | 8 | 5 | | | 4 | 13 | 1 | 5 |
| Missouri..... | 23 | 78 | 55 | 81 | 45 | 366 | 1 | 18 |
| North Dakota..... | 1 | 8 | | | 55 | 89 | 1 | 0 |
| South Dakota..... | 2 | 10 | | 3 | 9 | 78 | 0 | 1 |
| Nebraska..... | 6 | 10 | | 3 | 8 | 6 | 1 | 1 |
| Kansas..... | 15 | 14 | 22 | 12 | 128 | 18 | 1 | 1 |
| South Atlantic States: | | | | | | | | |
| Delaware..... | 8 | 2 | | 5 | 3 | 128 | 0 | 0 |
| Maryland ¹ | 12 | 20 | 348 | 125 | 25 | 1,422 | 1 | 1 |
| District of Columbia..... | 7 | 13 | 11 | | 2 | 280 | 2 | 2 |
| Virginia..... | | | | | | | | 2 |
| West Virginia..... | 17 | 9 | 284 | 205 | 438 | 106 | 1 | 1 |
| North Carolina..... | 17 | 23 | 169 | 75 | 670 | 814 | 2 | 5 |
| South Carolina ² | 6 | 11 | 1,909 | 1,857 | 114 | 100 | 0 | 3 |
| Georgia ³ | 15 | 5 | 125 | 549 | 25 | 114 | 1 | 1 |
| Florida..... | 6 | 4 | | 28 | 3 | 152 | 0 | 2 |
| East South Central States: | | | | | | | | |
| Kentucky..... | 25 | | 790 | | 118 | 301 | 0 | 2 |
| Tennessee..... | 3 | 12 | 1,137 | 270 | 174 | 250 | 1 | 6 |
| Alabama ⁴ | 10 | 19 | 123 | 761 | 12 | 467 | 1 | 19 |
| Mississippi..... | 7 | 7 | | | | | 0 | 0 |
| West South Central States: | | | | | | | | |
| Arkansas..... | 3 | 3 | 308 | 279 | 5 | 33 | 0 | 4 |
| Louisiana..... | 17 | 13 | 60 | 47 | 219 | 9 | 0 | 4 |
| Oklahoma ⁴ | 21 | 14 | 504 | 169 | 21 | 28 | 0 | 1 |
| Texas ¹ | 49 | 29 | 33 | 86 | 35 | 99 | 0 | 1 |

¹ New York City only.

² Week ended Friday.

³ Typhus fever, 6 cases: 1 case in South Carolina, 3 cases in Georgia, 1 case in Alabama, and 1 case in Texas.

⁴ Figures for 1932 are exclusive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 26, 1932, and March 28, 1931—Continued

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 |
| Mountain States: | | | | | | | | |
| Montana..... | | 1 | 44 | | 113 | 7 | 1 | 0 |
| Idaho..... | 1 | | 2 | 2 | | 1 | 0 | 0 |
| Wyoming..... | | 1 | | | 4 | 3 | 0 | 0 |
| Colorado..... | | 13 | | | 183 | 207 | 0 | 1 |
| New Mexico..... | 10 | 5 | 2 | 18 | 92 | 55 | 0 | 3 |
| Arizona..... | 4 | 4 | 24 | 40 | 1 | 190 | 0 | 0 |
| Utah..... | 1 | | | | 1 | 3 | 1 | 2 |
| Pacific States: | | | | | | | | |
| Washington..... | | 5 | 9 | 72 | 649 | 45 | 1 | 2 |
| Oregon..... | 2 | 4 | 170 | 219 | 219 | 97 | 0 | 0 |
| California..... | 64 | 55 | 113 | 229 | 431 | 1,733 | 4 | 4 |
| Total reported..... | 850 | 1,013 | 7,579 | 5,711 | 11,918 | 19,603 | 65 | 166 |

| Division and State | Poliomyelitis | | Scarlet fever | | Smallpox | | Typhoid fever | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 |
| New England States: | | | | | | | | |
| Maine..... | 0 | 0 | 33 | 22 | 0 | 0 | 0 | 0 |
| New Hampshire..... | 0 | 0 | 46 | 6 | 0 | 0 | 0 | 0 |
| Vermont..... | 0 | 0 | 10 | 7 | 4 | 0 | 0 | 1 |
| Massachusetts..... | 0 | 1 | 586 | 415 | 0 | 0 | 2 | 0 |
| Rhode Island..... | 0 | 0 | 78 | 67 | 0 | 0 | 2 | 1 |
| Connecticut..... | 0 | 0 | 91 | 85 | 2 | 0 | 0 | 0 |
| Middle Atlantic States: | | | | | | | | |
| New York..... | 2 | 2 | 1,789 | 1,050 | 3 | 13 | 7 | 9 |
| New Jersey..... | 1 | 1 | 345 | 305 | 0 | 0 | 4 | 4 |
| Pennsylvania..... | 1 | 1 | 524 | 455 | 0 | 0 | 10 | 8 |
| East North Central States: | | | | | | | | |
| Ohio..... | 0 | 4 | 302 | 452 | 21 | 80 | 1 | 4 |
| Indiana..... | 0 | 0 | 151 | 318 | 10 | 75 | 0 | 1 |
| Illinois..... | 1 | 0 | 433 | 584 | 13 | 37 | 14 | 2 |
| Michigan..... | 0 | 0 | 459 | 387 | 6 | 18 | 2 | 2 |
| Wisconsin..... | 0 | 0 | 95 | 191 | 0 | 9 | 1 | 1 |
| West North Central States: | | | | | | | | |
| Minnesota..... | 1 | 0 | 103 | 97 | 1 | 14 | 0 | 1 |
| Iowa..... | 0 | 0 | 56 | 80 | 25 | 70 | 1 | 0 |
| Missouri..... | 0 | 0 | 72 | 368 | 4 | 51 | 2 | 14 |
| North Dakota..... | 0 | 0 | 13 | 54 | 6 | 8 | 0 | 0 |
| South Dakota..... | 2 | 0 | 4 | 19 | 8 | 14 | 1 | 3 |
| Nebraska..... | 0 | 0 | 37 | 69 | 14 | 49 | 0 | 0 |
| Kansas..... | 0 | 1 | 56 | 76 | 4 | 112 | 6 | 0 |
| South Atlantic States: | | | | | | | | |
| Delaware..... | 0 | 0 | 26 | 21 | 0 | 0 | 0 | 0 |
| Maryland..... | 0 | 0 | 136 | 87 | 0 | 0 | 0 | 6 |
| District of Columbia..... | 0 | 0 | 20 | 30 | 0 | 0 | 0 | 0 |
| Virginia..... | 1 | | | | | | | |
| West Virginia..... | 0 | 0 | 26 | 31 | 17 | 12 | 7 | 6 |
| North Carolina..... | 0 | 0 | 63 | 37 | 2 | 1 | 8 | 2 |
| South Carolina..... | 3 | 2 | 9 | 4 | 1 | 0 | 19 | 9 |
| Georgia..... | 0 | 0 | 5 | 60 | 0 | 0 | 1 | 3 |
| Florida..... | 0 | 0 | 5 | 3 | 0 | 3 | 23 | 4 |
| East South Central States: | | | | | | | | |
| Kentucky..... | 0 | 0 | 82 | 49 | 8 | 19 | 6 | 7 |
| Tennessee..... | 0 | 0 | 18 | 51 | 17 | 33 | 10 | 2 |
| Alabama..... | 0 | 0 | 18 | 23 | 5 | 8 | 3 | 2 |
| Mississippi..... | 0 | 0 | 18 | 14 | 8 | 38 | 0 | 2 |
| West South Central States: | | | | | | | | |
| Arkansas..... | 0 | 0 | 12 | 14 | 8 | 26 | 1 | 2 |
| Louisiana..... | 0 | 0 | 6 | 20 | 5 | 26 | 12 | 8 |
| Oklahoma..... | 0 | 0 | 25 | 46 | 15 | 76 | 0 | 8 |
| Texas..... | 0 | 0 | 36 | 37 | 32 | 45 | 4 | 2 |

² Week ended Friday.

³ Typhus fever, 6 cases: 1 case in South Carolina, 3 cases in Georgia, 1 case in Alabama, and 1 case in Texas.

⁴ Exclusive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 26, 1932, and March 28, 1931—Continued

| Division and State | Poliomyelitis | | Scarlet fever | | Smallpox | | Typhoid fever | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 | Week ended Mar. 26, 1932 | Week ended Mar. 28, 1931 |
| Mountain States: | | | | | | | | |
| Montana..... | 1 | 0 | 37 | 21 | 0 | 6 | 1 | 1 |
| Idaho..... | 0 | 0 | 0 | 6 | 0 | 1 | 4 | 0 |
| Wyoming..... | 0 | 0 | 8 | 16 | 0 | 4 | 2 | 0 |
| Colorado..... | 0 | 0 | 35 | 31 | 1 | 7 | 1 | 0 |
| New Mexico..... | 0 | 0 | 9 | 6 | 0 | 0 | 0 | 0 |
| Arizona..... | 0 | 0 | 6 | 8 | 0 | 0 | 3 | 2 |
| Utah ¹ | 0 | 0 | 6 | 18 | 0 | 0 | 1 | 0 |
| Pacific States: | | | | | | | | |
| Washington..... | 0 | 0 | 34 | 38 | 29 | 25 | 2 | 7 |
| Oregon..... | 0 | 0 | 12 | 20 | 23 | 16 | 2 | 5 |
| California..... | 0 | 2 | 135 | 162 | 23 | 46 | 8 | 5 |
| Total reported..... | 13 | 14 | 6,070 | 5,940 | 316 | 933 | 171 | 134 |

¹ Week ended Friday.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States 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- lar- ia | Mea- sles | Pel- lagra | Polio- myelitis | Scarlet fever | Small- pox | Ty- phoid fever |
|-----------------------|--|-----------------|----------------|-------------------|--------------|---------------|--------------------|------------------|---------------|-----------------------|
| <i>January, 1932</i> | | | | | | | | | | |
| Hawaii Territory..... | 2 | 9 | 8 | | 334 | | 0 | 2 | 0 | 7 |
| <i>February, 1932</i> | | | | | | | | | | |
| Delaware..... | | 12 | 7 | | 3 | | 1 | 53 | 0 | 4 |
| Idaho..... | 4 | 9 | 15 | | 6 | | 0 | 38 | 9 | 16 |
| Illinois..... | 41 | 425 | 639 | 13 | 709 | 1 | 19 | 1,778 | 26 | 33 |
| Louisiana..... | 5 | 117 | 50 | 12 | 140 | 16 | 1 | 73 | 22 | 67 |
| Maine..... | | 18 | 165 | | 2,338 | 1 | 0 | 108 | 0 | 5 |
| Maryland..... | 10 | 130 | 196 | | 111 | | 1 | 511 | 0 | 19 |
| Minnesota..... | 2 | 46 | 9 | | 183 | | 1 | 543 | 8 | 12 |
| Missouri..... | 8 | 161 | 175 | | 116 | | 1 | 373 | 67 | 11 |
| Montana..... | 3 | 8 | 8,661 | | 295 | | 1 | 183 | 5 | 3 |
| New Mexico..... | 1 | 100 | 2,175 | 1 | 261 | 1 | 2 | 52 | 9 | 13 |
| New York..... | 37 | 597 | | 1 | 7,553 | | 22 | 5,600 | 11 | 42 |
| North Carolina..... | 6 | 113 | 201 | | 1,139 | 44 | 5 | 207 | 16 | 21 |
| Ohio..... | 10 | 272 | 1,600 | | 2,856 | 1 | 2 | 1,817 | 188 | 27 |
| Oregon..... | | 15 | 1,283 | 1 | 383 | | 0 | 82 | 44 | 6 |
| Pennsylvania..... | 18 | 570 | | | 7,509 | | 2 | 3,066 | 0 | 75 |
| Porto Rico..... | | 51 | 89 | 4,084 | 76 | 8 | 1 | | 0 | 11 |
| Rhode Island..... | | 22 | 22 | | 3,783 | | 0 | 212 | 0 | 0 |

¹ Estimates included.

| <i>January, 1932</i> | | <i>February, 1932</i> | |
|---------------------------------|-------|-----------------------|-------|
| Cases | Cases | Cases | Cases |
| Hawaii Territory: | | Anthrax: | |
| Chicken pox..... | 42 | Oregon..... | 1 |
| Conjunctivitis, follicular..... | 39 | Chicken pox: | |
| Hookworm disease..... | 19 | Delaware..... | 44 |
| Impetigo contagiosa..... | 1 | Idaho..... | 32 |
| Leprosy..... | 4 | Illinois..... | 1,618 |
| Mumps..... | 6 | Louisiana..... | 23 |
| Trachoma..... | 10 | Maine..... | 164 |
| Whooping cough..... | 19 | Maryland..... | 643 |

| Chicken pox—Continued. | Cases | Lethargic encephalitis—Continued. | Cases |
|---------------------------|-------|-----------------------------------|-------|
| Minnesota..... | 234 | Maine..... | 1 |
| Missouri..... | 479 | New Mexico..... | 1 |
| Montana..... | 73 | New York..... | 9 |
| New Mexico..... | 100 | Ohio..... | 1 |
| New York..... | 2,763 | Pennsylvania..... | 6 |
| North Carolina..... | 612 | Mumps: | |
| Ohio..... | 1,813 | Delaware..... | 53 |
| Oregon..... | 167 | Idaho..... | 39 |
| Pennsylvania..... | 4,240 | Illinois..... | 319 |
| Porto Rico..... | 72 | Louisiana..... | 5 |
| Rhode Island..... | 104 | Maine..... | 77 |
| Colibacillosis: | | Maryland..... | 552 |
| Porto Rico..... | 1 | Missouri..... | 84 |
| Conjunctivitis: | | Montana..... | 21 |
| New Mexico..... | 19 | New Mexico..... | 30 |
| Dengue: | | New York..... | 1,503 |
| Porto Rico..... | 1 | Ohio..... | 1,126 |
| Diarrhea: | | Oregon..... | 107 |
| Maryland..... | 11 | Pennsylvania..... | 3,363 |
| Diarrhea and enteritis: | | Porto Rico..... | 48 |
| Ohio (under 2 years)..... | 16 | Rhode Island..... | 161 |
| Dysentery: | | Ophthalmia neonatorum: | |
| Illinois..... | 23 | Illinois..... | 9 |
| Illinois (amebic)..... | 1 | Maryland..... | 5 |
| Louisiana..... | 1 | Minnesota..... | 1 |
| Maryland..... | 5 | New York..... | 6 |
| Minnesota..... | 1 | North Carolina..... | 1 |
| Minnesota (amebic)..... | 1 | Ohio..... | 64 |
| Missouri..... | 6 | Pennsylvania..... | 12 |
| Montana..... | 1 | Porto Rico..... | 11 |
| New York..... | 10 | Rhode Island..... | 1 |
| Ohio..... | 1 | Paratyphoid fever: | |
| Porto Rico..... | 49 | Illinois..... | 1 |
| Filariasis: | | Maryland..... | 1 |
| Porto Rico..... | 8 | New York..... | 1 |
| Food poisoning: | | Ohio..... | 2 |
| Ohio..... | 5 | Oregon..... | 2 |
| German measles: | | Porto Rico..... | 1 |
| Illinois..... | 12 | Puerperal septicemia: | |
| Maine..... | 156 | Illinois..... | 7 |
| Maryland..... | 20 | New Mexico..... | 1 |
| Montana..... | 3 | New York..... | 29 |
| New Mexico..... | 6 | Ohio..... | 6 |
| New York..... | 135 | Pennsylvania..... | 23 |
| North Carolina..... | 68 | Porto Rico..... | 3 |
| Ohio..... | 27 | Rabies in animals: | |
| Pennsylvania..... | 96 | Illinois..... | 6 |
| Porto Rico..... | 2 | Louisiana..... | 7 |
| Granuloma: | | Missouri..... | 5 |
| Maryland..... | 1 | New York ¹ | 7 |
| Hook worm disease: | | Oregon..... | 1 |
| Illinois..... | 13 | Scabies: | |
| Impetigo contagiosa: | | Maryland..... | 15 |
| Illinois..... | 2 | Montana..... | 2 |
| Maryland..... | 25 | Oregon..... | 69 |
| Montana..... | 7 | Septic sore throat: | |
| Oregon..... | 70 | Idaho..... | 1 |
| Lead poisoning: | | Illinois..... | 24 |
| Illinois..... | 8 | Louisiana..... | 5 |
| Ohio..... | 6 | Maine..... | 1 |
| Leprosy: | | Maryland..... | 11 |
| Illinois..... | 1 | Missouri..... | 11 |
| Porto Rico..... | 5 | Montana..... | 4 |
| Lethargic encephalitis: | | New Mexico..... | 1 |
| Illinois..... | 11 | | |
| Louisiana..... | 1 | | |

¹ Exclusive of New York City.

| Septic sore throat—Continued. | | Cases | Undulant fever—Continued. | | Cases |
|-------------------------------|-----|-------|---------------------------|-------|-------|
| New York..... | 42 | | Maine..... | 1 | |
| North Carolina..... | 17 | | Maryland..... | 4 | |
| Ohio..... | 153 | | Minnesota..... | 2 | |
| Oregon..... | 4 | | Missouri..... | 3 | |
| Rhode Island..... | 1 | | New York..... | 20 | |
| Tetanus: | | | Ohio..... | 2 | |
| Illinois..... | 6 | | Oregon..... | 2 | |
| Maryland..... | 1 | | Pennsylvania..... | 3 | |
| New York..... | 3 | | Vincent's angina: | | |
| Ohio..... | 1 | | Illinois..... | 21 | |
| Pennsylvania..... | 3 | | Maine..... | 2 | |
| Porto Rico..... | 4 | | Maryland..... | 10 | |
| Tetanus, infantile: | | | New York..... | 54 | |
| Porto Rico..... | 7 | | Oregon..... | 6 | |
| Trachoma: | | | Whooping cough: | | |
| Illinois..... | 2 | | Delaware..... | 54 | |
| Missouri..... | 29 | | Idaho..... | 9 | |
| New Mexico..... | 2 | | Illinois..... | 1,527 | |
| Ohio..... | 5 | | Louisiana..... | 40 | |
| Pennsylvania..... | 2 | | Maine..... | 143 | |
| Porto Rico..... | 4 | | Maryland..... | 839 | |
| Trichinosis: | | | Minnesota..... | 74 | |
| Illinois..... | 1 | | Missouri..... | 845 | |
| New York..... | 3 | | Montana..... | 50 | |
| Tularaemia: | | | New Mexico..... | 92 | |
| Illinois..... | 7 | | New York..... | 2,723 | |
| Louisiana..... | 7 | | North Carolina..... | 1,536 | |
| Maryland..... | 1 | | Ohio..... | 2,512 | |
| Missouri..... | 2 | | Oregon..... | 52 | |
| North Carolina..... | 4 | | Pennsylvania..... | 3,987 | |
| Ohio..... | 3 | | Porto Rico..... | 221 | |
| Pennsylvania..... | 3 | | Rhode Island..... | 64 | |
| Typhus fever: | | | Yaws: | | |
| New York..... | 1 | | Porto Rico..... | 8 | |
| Undulant fever: | | | | | |
| Illinois..... | 4 | | | | |
| Louisiana..... | 1 | | | | |

¹ Exclusive of New York City.

PATIENTS IN INSTITUTIONS FOR THE CARE OF EPILEPTICS, APRIL TO JUNE, 1930

Reports for the second quarter of the year 1930 were received by the Public Health Service from 12 institutions for the care and treatment of epileptics, located in 12 States. The total number of patients, including those on parole or otherwise absent but still on the books, on June 30, 1930, was 8,402.

The first admissions were as follows:

| | Male | Female | Total |
|------------|------|--------|-------|
| April..... | 78 | 56 | 134 |
| May..... | 71 | 51 | 122 |
| June..... | 76 | 40 | 116 |
| Total..... | 225 | 147 | 372 |

Of the new admissions during the three months, 60.5 per cent were males and 39.5 per cent were females, giving a ratio of 153 males per 100 females.

During the quarter 100 patients were discharged—59 males and 41 females. One hundred and seven male patients and 61 female

patients died. The annual death rates, based on the number of patients on the rolls of the institutions on June 30, 1930, were: Males, 95.6 per 1,000; females, 62.5 per 1,000; persons, 80.2 per 1,000.

At the end of June there were 4,488 males and 3,914 females on the rolls of the institutions, giving a ratio of 115 males per 100 females.

The following table shows for the 12 institutions the numbers of patients in the hospitals and on parole on April 1, 1930, and at the end of each month of the second quarter of the year.

| | Apr. 1, 1930 | Apr. 30, 1930 | May 31, 1930 | June 30, 1930 |
|--|-----------------|------------------|-----------------|------------------|
| Patients in hospitals: | | | | |
| Male..... | 4, 174 | 4, 176 | 4, 178 | 4, 158 |
| Female..... | 3, 709 | 3, 714 | 3, 713 | 3, 708 |
| Total..... | 7, 883 | 7, 890 | 7, 891 | 7, 866 |
| Patients on parole: | | | | |
| Male..... | 238 | 256 | 282 | 330 |
| Female..... | 155 | 168 | 190 | 206 |
| Total..... | 393 | 424 | 472 | 536 |
| Total patients on books: | | | | |
| Male..... | 4, 412 | 4, 432 | 4, 460 | 4, 488 |
| Female..... | 3, 864 | 3, 882 | 3, 903 | 3, 914 |
| Total..... | 8, 276 | 8, 314 | 8, 363 | 8, 402 |
| Per cent of total patients on parole: | | | | |
| Male..... | 5. 4 | 5. 8 | 6. 3 | 7. 4 |
| Female..... | 4. 0 | 4. 3 | 4. 9 | 5. 3 |
| Total..... | 4. 7 | 5. 1 | 5. 6 | 6. 4 |

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 97 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 33,635,000. The estimated population of the 90 cities reporting deaths is more than 32,075,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended March 19, 1932, and March 21, 1931

| | 1932 | 1931 | Estimated expectancy |
|----------------------------------|---------|---------|-------------------------|
| <i>Cases reported</i> | | | |
| Diphtheria: | | | |
| 46 States..... | 972 | 934 | ----- |
| 97 cities..... | 401 | 409 | 770 |
| Measles: | | | |
| 45 States..... | 12, 133 | 17, 548 | ----- |
| 97 cities..... | 4, 763 | 6, 620 | ----- |
| Meningococcus meningitis: | | | |
| 46 States..... | 75 | 156 | ----- |
| 97 cities..... | 45 | 92 | ----- |
| Pollomyelitis: | | | |
| 46 States..... | 11 | 20 | ----- |
| Scarlet fever: | | | |
| 46 States..... | 6, 571 | 5, 923 | ----- |
| 97 cities..... | 3, 172 | 2, 481 | 1, 616 |
| Smallpox: | | | |
| 46 States..... | 394 | 990 | ----- |
| 97 cities..... | 30 | 142 | 60 |
| Typhoid fever: | | | |
| 46 States..... | 169 | 115 | ----- |
| 97 cities..... | 25 | 27 | 21 |
| <i>Deaths reported</i> | | | |
| Influenza and pneumonia: | | | |
| 90 cities..... | 1, 380 | 1, 293 | ----- |
| Smallpox: | | | |
| 90 cities..... | 0 | 0 | ----- |

City reports for week ended March 19, 1932

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 non-epidemic 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 1923 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 | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths reported |
|---------------------------|-----------------------------------|--|-------------------|-------------------|--------------------|---------------------------------|-------------------------------|---------------------------------------|
| | | Cases, estimated expect- ancy | Cases reported | Cases reported | Deaths reported | | | |
| NEW ENGLAND | | | | | | | | |
| Maine: | | | | | | | | |
| Portland..... | 1 | 0 | 0 | 0 | 0 | 92 | 4 | 1 |
| New Hampshire: | | | | | | | | |
| Concord..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Manchester..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nashua..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Vermont: | | | | | | | | |
| Barre..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burlington..... | 3 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| Massachusetts: | | | | | | | | |
| Boston..... | 36 | 27 | 18 | 3 | 0 | 48 | 32 | 14 |
| Fall River..... | 7 | 3 | 2 | 1 | 1 | 64 | 7 | 7 |
| Springfield..... | 19 | 3 | 1 | 0 | 0 | 19 | 28 | 2 |
| Worcester..... | 4 | 3 | 1 | 0 | 0 | 0 | 29 | 12 |
| Rhode Island: | | | | | | | | |
| Pawtucket..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Providence..... | 3 | 7 | 4 | 1 | 1 | 119 | 3 | 12 |
| Connecticut: | | | | | | | | |
| Bridgeport..... | 1 | 5 | 1 | 3 | 2 | 9 | 0 | 6 |
| Hartford..... | 15 | 4 | 0 | 0 | 0 | 7 | 11 | 6 |
| New Haven..... | 20 | 1 | 0 | 7 | 0 | 0 | 7 | 4 |
| MIDDLE ATLANTIC | | | | | | | | |
| New York: | | | | | | | | |
| Buffalo..... | 43 | 10 | 0 | 4 | 1 | 8 | 8 | 43 |
| New York..... | 221 | 203 | 98 | 244 | 66 | 138 | 156 | 342 |
| Rochester..... | 6 | 6 | 0 | 1 | 0 | 390 | 24 | 4 |
| Syracuse..... | 13 | 3 | 0 | 0 | 0 | 511 | 10 | 6 |
| New Jersey: | | | | | | | | |
| Camden..... | 8 | 4 | 5 | 0 | 0 | 3 | 1 | 3 |
| Newark..... | 55 | 15 | 4 | 22 | 2 | 19 | 97 | 26 |
| Trenton..... | 4 | 2 | 0 | 5 | 4 | 3 | 0 | 6 |
| Pennsylvania: | | | | | | | | |
| Philadelphia..... | 158 | 60 | 6 | 22 | 9 | 7 | 26 | 68 |
| Pittsburgh..... | 25 | 17 | 8 | 3 | 7 | 221 | 42 | 37 |
| Reading..... | 54 | 2 | 0 | 0 | 0 | 6 | 0 | 2 |
| Scranton..... | 7 | | 1 | | | 1 | 0 | |
| EAST NORTH CENTRAL | | | | | | | | |
| Ohio: | | | | | | | | |
| Cincinnati..... | 8 | 7 | 3 | 2 | 7 | 1 | 0 | 30 |
| Cleveland..... | 73 | 25 | 6 | 133 | 8 | 839 | 96 | 32 |
| Columbus..... | 3 | 2 | 3 | 3 | 3 | 0 | 2 | 7 |
| Toledo..... | 18 | 4 | 1 | 9 | 7 | 42 | 1 | 8 |
| Indiana: | | | | | | | | |
| Fort Wayne..... | 0 | 2 | 9 | 0 | 0 | 0 | 0 | 4 |
| Indianapolis..... | 42 | 4 | 0 | 0 | 2 | 4 | 107 | 12 |
| South Bend..... | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 3 |
| Terre Haute..... | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 5 |
| Illinois: | | | | | | | | |
| Chicago..... | 92 | 90 | 34 | 12 | 18 | 275 | 8 | 62 |
| Springfield..... | 1 | 1 | 2 | 3 | 1 | 0 | 4 | 6 |
| Michigan: | | | | | | | | |
| Detroit..... | 56 | 43 | 21 | 30 | 17 | 153 | 43 | 46 |
| Flint..... | 12 | 2 | 0 | 40 | 1 | 143 | 80 | 5 |
| Grand Rapids..... | 6 | 1 | 0 | 0 | 5 | 96 | 20 | 4 |

City reports for week ended March 19, 1932—Continued

| Division, State, and city | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|----------------------------------|-----------------------------|-----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | Cases, estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| EAST NORTH CENTRAL—contd. | | | | | | | | |
| Wisconsin: | | | | | | | | |
| Kenosha..... | 6 | 0 | 0 | ----- | 0 | 0 | 0 | 2 |
| Madison..... | 9 | 0 | 1 | ----- | 0 | 0 | 0 | 0 |
| Milwaukee..... | 91 | 13 | 2 | ----- | 3 | 407 | 33 | 0 |
| Racine..... | 26 | 1 | 0 | ----- | 0 | 39 | 84 | 2 |
| Superior..... | 8 | 0 | 0 | ----- | 1 | 0 | 20 | 4 |
| WEST NORTH CENTRAL | | | | | | | | |
| Minnesota: | | | | | | | | |
| Duluth..... | 5 | 0 | 0 | ----- | 4 | 1 | 0 | 3 |
| Minneapolis..... | 14 | 12 | 7 | ----- | 2 | 6 | 40 | 13 |
| St. Paul..... | 5 | 5 | 2 | ----- | 1 | 1 | 9 | 7 |
| Iowa: | | | | | | | | |
| Davenport..... | 3 | 1 | 2 | ----- | ----- | 0 | 0 | ----- |
| Des Moines..... | 0 | 0 | 1 | ----- | ----- | 0 | 0 | ----- |
| Sioux City..... | 2 | 0 | 1 | ----- | ----- | 0 | 2 | ----- |
| Waterloo..... | 4 | 0 | 0 | ----- | ----- | 0 | 0 | ----- |
| Missouri: | | | | | | | | |
| Kansas City..... | ----- | 5 | ----- | ----- | ----- | ----- | ----- | ----- |
| St. Joseph..... | 4 | 0 | 1 | ----- | 1 | 0 | 1 | 0 |
| St. Louis..... | 38 | 35 | 20 | ----- | 1 | 3 | 1 | 11 |
| North Dakota: | | | | | | | | |
| Fargo..... | 1 | 0 | 0 | ----- | 0 | 16 | 0 | 0 |
| Grand Forks..... | 0 | 0 | 0 | ----- | ----- | 0 | 0 | ----- |
| South Dakota: | | | | | | | | |
| Aberdeen..... | 0 | 0 | 0 | ----- | ----- | 8 | 0 | ----- |
| Nebraska: | | | | | | | | |
| Omaha..... | 9 | 3 | 9 | ----- | 0 | 1 | 2 | 5 |
| Kansas: | | | | | | | | |
| Topeka..... | 14 | 1 | 1 | ----- | 1 | 1 | 1 | 2 |
| Wichita..... | 3 | 1 | 4 | ----- | 0 | 137 | 0 | 4 |
| SOUTH ATLANTIC | | | | | | | | |
| Delaware: | | | | | | | | |
| Wilmington..... | 0 | 3 | 0 | ----- | 0 | 0 | 1 | 4 |
| Maryland: | | | | | | | | |
| Baltimore..... | 102 | 19 | 6 | ----- | 82 | 10 | 103 | 47 |
| Cumberland..... | 0 | 1 | 0 | ----- | 3 | 0 | 0 | 4 |
| Frederick..... | 0 | 0 | 1 | ----- | 0 | 1 | 0 | 0 |
| District of Columbia: | | | | | | | | |
| Washington..... | 42 | 12 | 9 | ----- | 2 | 4 | 0 | 17 |
| Virginia: | | | | | | | | |
| Lynchburg..... | 16 | 1 | 0 | ----- | ----- | 0 | 0 | 1 |
| Norfolk..... | 21 | 2 | 0 | ----- | ----- | 0 | 2 | 0 |
| Richmond..... | 5 | 3 | 0 | ----- | ----- | 0 | 0 | 2 |
| Roanoke..... | 0 | 1 | 0 | ----- | ----- | 1 | 0 | 3 |
| West Virginia: | | | | | | | | |
| Charleston..... | 5 | 1 | 1 | ----- | 5 | 1 | 72 | 0 |
| Huntington..... | 3 | 1 | 1 | ----- | ----- | 0 | 3 | 0 |
| Wheeling..... | 1 | 0 | 0 | ----- | ----- | 3 | 2 | 4 |
| North Carolina: | | | | | | | | |
| Raleigh..... | 4 | 0 | 0 | ----- | ----- | 0 | 46 | 0 |
| Wilmington..... | 0 | 0 | 1 | ----- | ----- | 0 | 0 | 2 |
| Winston-Salem..... | 17 | 0 | 2 | ----- | ----- | 1 | 7 | 4 |
| South Carolina: | | | | | | | | |
| Charleston..... | 0 | 1 | 0 | ----- | 91 | 2 | 0 | 6 |
| Columbia..... | 1 | 0 | 0 | ----- | ----- | 0 | 1 | 3 |
| Greenville..... | 0 | 0 | 0 | ----- | ----- | 0 | 1 | 0 |
| Georgia: | | | | | | | | |
| Atlanta..... | 4 | 3 | 2 | ----- | 17 | 2 | 7 | 13 |
| Brunswick..... | 5 | 0 | 0 | ----- | ----- | 0 | 0 | 0 |
| Savannah..... | 4 | 1 | 0 | ----- | 7 | 1 | 4 | 4 |
| Florida: | | | | | | | | |
| Miami..... | 3 | 2 | 6 | ----- | ----- | 0 | 4 | 2 |
| Tampa..... | 1 | 1 | 3 | ----- | ----- | 0 | 0 | 1 |
| EAST SOUTH CENTRAL | | | | | | | | |
| Kentucky: | | | | | | | | |
| Covington..... | 0 | 0 | 0 | ----- | ----- | 0 | 0 | 3 |
| Tennessee: | | | | | | | | |
| Memphis..... | 11 | 3 | 0 | ----- | ----- | 1 | 0 | 9 |
| Nashville..... | 2 | 1 | 0 | ----- | ----- | 4 | 4 | 12 |

City reports for week ended March 19, 1933—Continued

| Division, State, and city | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|----------------------------------|-----------------------------|-----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | Cases, estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| EAST SOUTH CENTRAL—contd. | | | | | | | | |
| Alabama: | | | | | | | | |
| Birmingham..... | 5 | 2 | 1 | 11 | 2 | 0 | 10 | 6 |
| Mobile..... | 0 | 0 | 1 | ----- | 1 | 0 | 0 | 2 |
| Montgomery..... | 4 | 0 | 0 | ----- | ----- | 0 | 3 | ----- |
| WEST SOUTH CENTRAL | | | | | | | | |
| Arkansas: | | | | | | | | |
| Fort Smith..... | 0 | 0 | 0 | ----- | ----- | 0 | ----- | ----- |
| Little Rock..... | 6 | 0 | 0 | ----- | 1 | 0 | 9 | 6 |
| Louisiana: | | | | | | | | |
| New Orleans..... | 0 | 12 | 19 | 3 | 4 | 0 | 0 | 13 |
| Shreveport..... | 0 | 0 | 0 | ----- | 1 | 6 | 4 | 1 |
| Oklahoma: | | | | | | | | |
| Muskogee..... | 0 | ----- | 0 | 1 | ----- | 0 | 5 | ----- |
| Oklahoma City..... | 8 | 0 | 3 | 44 | 0 | 0 | 0 | 11 |
| Texas: | | | | | | | | |
| Dallas..... | 4 | 5 | 13 | 9 | 9 | 0 | 0 | 13 |
| Fort Worth..... | 7 | 4 | 7 | ----- | 0 | 1 | 1 | 4 |
| Galveston..... | 0 | 1 | 1 | ----- | 0 | 0 | 0 | 5 |
| Houston..... | 1 | 5 | 14 | ----- | 0 | 6 | 0 | 12 |
| San Antonio..... | 0 | 3 | 2 | ----- | 3 | 0 | 0 | 11 |
| MOUNTAIN | | | | | | | | |
| Montana: | | | | | | | | |
| Billings..... | 3 | 0 | 0 | ----- | 0 | 0 | 0 | 0 |
| Great Falls..... | 7 | 1 | 0 | ----- | 2 | 1 | 0 | 1 |
| Helena..... | 2 | 0 | 0 | ----- | 0 | 2 | 0 | 0 |
| Missoula..... | 0 | 0 | 0 | 26 | 1 | 0 | 0 | 0 |
| Idaho: | | | | | | | | |
| Boise..... | 2 | 0 | 0 | ----- | 0 | 0 | 2 | 0 |
| Colorado: | | | | | | | | |
| Denver..... | 10 | 7 | 5 | ----- | 1 | 41 | 43 | 20 |
| Pueblo..... | 49 | 0 | 0 | ----- | 0 | 0 | 0 | 3 |
| New Mexico: | | | | | | | | |
| Albuquerque..... | 7 | 0 | 1 | ----- | 0 | 40 | 5 | 4 |
| Arizona: | | | | | | | | |
| Phoenix..... | 0 | ----- | 0 | ----- | 0 | 0 | 0 | 2 |
| Utah: | | | | | | | | |
| Salt Lake City..... | 26 | 2 | 0 | ----- | 1 | 1 | 0 | 3 |
| Nevada: | | | | | | | | |
| Reno..... | 0 | 0 | 0 | ----- | 0 | 0 | 0 | 0 |
| PACIFIC | | | | | | | | |
| Washington: | | | | | | | | |
| Seattle..... | 20 | 3 | 0 | ----- | ----- | 440 | 3 | ----- |
| Spokane..... | 3 | 2 | 0 | ----- | ----- | 1 | 0 | ----- |
| Tacoma..... | 11 | 1 | 0 | ----- | 0 | 24 | 0 | 6 |
| Oregon: | | | | | | | | |
| Portland..... | 14 | 7 | 3 | 2 | 1 | 56 | 10 | 11 |
| Salem..... | 0 | 0 | 0 | 9 | ----- | 0 | 0 | ----- |
| California: | | | | | | | | |
| Los Angeles..... | 221 | 35 | 38 | 86 | 4 | 7 | 25 | 17 |
| Sacramento..... | 26 | 1 | 1 | ----- | 0 | 130 | 0 | 5 |
| San Francisco..... | 94 | 12 | 8 | 3 | 1 | 156 | 4 | 12 |

City reports for week ended March 19, 1932—Continued

| Division, State, and city | Meningo-coccus meningitis | | Lethargic encephalitis | | Pellagra | | Poliomyelitis (infantile paralysis) | | |
|-----------------------------------|---------------------------|--------|------------------------|--------|----------|--------|-------------------------------------|-------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases estimated expectancy | Cases | Deaths |
| MIDDLE ATLANTIC | | | | | | | | | |
| New York: | | | | | | | | | |
| New York..... | 10 | 6 | 1 | 2 | 0 | 0 | 0 | 1 | 1 |
| Syracuse..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| New Jersey: | | | | | | | | | |
| Newark..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Trenton..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania: | | | | | | | | | |
| Philadelphia..... | 5 | 3 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |
| EAST NORTH CENTRAL | | | | | | | | | |
| Ohio: | | | | | | | | | |
| Cleveland..... | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana: | | | | | | | | | |
| Indianapolis..... | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Bend..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois: | | | | | | | | | |
| Chicago..... | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Michigan: | | | | | | | | | |
| Detroit..... | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flint..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin: | | | | | | | | | |
| Kenosha..... | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Milwaukee..... | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| WEST NORTH CENTRAL | | | | | | | | | |
| Iowa: | | | | | | | | | |
| Sioux City..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH ATLANTIC¹ | | | | | | | | | |
| District of Columbia: | | | | | | | | | |
| Washington..... | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina: | | | | | | | | | |
| Winston-Salem..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina: | | | | | | | | | |
| Charleston..... | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| Georgia: | | | | | | | | | |
| Atlanta..... | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Savannah..... | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| EAST SOUTH CENTRAL | | | | | | | | | |
| Tennessee: | | | | | | | | | |
| Memphis..... | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Alabama: | | | | | | | | | |
| Birmingham..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Montgomery..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| WEST SOUTH CENTRAL | | | | | | | | | |
| Arkansas: | | | | | | | | | |
| Little Rock..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana: | | | | | | | | | |
| New Orleans..... | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shreveport..... | 0 | 1 | 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 | 1 | 0 | 0 | 0 |
| MOUNTAIN | | | | | | | | | |
| Colorado: | | | | | | | | | |
| Denver..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PACIFIC | | | | | | | | | |
| Oregon: | | | | | | | | | |
| Portland..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California: | | | | | | | | | |
| Los Angeles..... | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| San Francisco..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

¹ Typhus fever, 1 case at Norfolk, Va.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended March 19, 1932, compared with those for a like period ended March 21, 1931. The population figures used in computing the rates are estimated mid-year populations for 1931 and 1932, respectively, derived from the 1930 census. The 98 cities reporting cases have an estimated aggregate population of more than 34,000,000. The 91 cities reporting deaths have more than 32,400,000 estimated population.

*Summary of weekly reports from cities, February 14 to March 19, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931*¹

DIPHTHERIA CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|
| | Feb. 20, 1932 | Feb. 21, 1931 | Feb. 27, 1932 | Feb. 28, 1931 | Mar. 5, 1932 | Mar. 7, 1931 | Mar. 12, 1932 | Mar. 14, 1931 | Mar. 19, 1932 | Mar. 21, 1931 |
| 98 cities..... | 72 | 68 | 64 | 70 | 62 | 73 | 59 | 65 | 62 | 65 |
| New England..... | 108 | 70 | 65 | 89 | 48 | 106 | 53 | 79 | 65 | 67 |
| Middle Atlantic..... | 65 | 64 | 72 | 56 | 63 | 61 | 56 | 67 | 54 | 64 |
| East North Central..... | 57 | 66 | 45 | 78 | 66 | 75 | 54 | 72 | 48 | 72 |
| West North Central..... | 85 | 59 | 66 | 55 | 49 | 71 | 74 | 63 | 100 | 73 |
| South Atlantic..... | 88 | 47 | 69 | 77 | 78 | 93 | 59 | 53 | 49 | 73 |
| East South Central..... | 75 | 59 | 46 | 59 | 35 | 29 | 46 | 35 | 12 | 23 |
| West South Central..... | 158 | 186 | 119 | 132 | 102 | 118 | 135 | 68 | 162 | 71 |
| Mountain..... | 52 | 35 | 9 | 87 | 9 | 61 | 26 | 26 | 43 | 17 |
| Pacific..... | 47 | 59 | 67 | 57 | 57 | 63 | 44 | 55 | 89 | 51 |

MEASLES CASE RATES

| 98 cities..... | 533 | 668 | 571 | 703 | 698 | 769 | 171 | 947 | 740 | 1,041 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| New England..... | 1,589 | 541 | 1,510 | 635 | 1,740 | 909 | 901 | 1,346 | 860 | 1,527 |
| Middle Atlantic..... | 384 | 652 | 466 | 645 | 504 | 874 | 644 | 1,026 | 578 | 1,158 |
| East North Central..... | 577 | 254 | 590 | 300 | 919 | 369 | 936 | 582 | 1,167 | 558 |
| West North Central..... | 197 | 1,057 | 226 | 874 | 241 | 645 | 165 | 595 | 370 | 492 |
| South Atlantic..... | 359 | 2,206 | 282 | 2,805 | 424 | 2,241 | 286 | 2,758 | 302 | 3,445 |
| East South Central..... | 12 | 1,134 | 0 | 1,051 | 17 | 1,045 | 58 | 1,157 | 23 | 1,004 |
| West South Central..... | 251 | 24 | 234 | 24 | 257 | 68 | 99 | 37 | 40 | 51 |
| Mountain..... | 138 | 1,566 | 250 | 1,210 | 196 | 1,331 | 509 | 1,462 | 388 | 1,288 |
| Pacific..... | 1,125 | 243 | 1,296 | 223 | 1,313 | 347 | 1,205 | 357 | 1,443 | 394 |

SCARLET FEVER CASE RATES

| 98 cities..... | 417 | 346 | 441 | 373 | 475 | 345 | 481 | 375 | 493 | 389 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| New England..... | 738 | 559 | 673 | 606 | 666 | 527 | 709 | 589 | 724 | 676 |
| Middle Atlantic..... | 631 | 342 | 694 | 381 | 777 | 359 | 799 | 389 | 786 | 392 |
| East North Central..... | 356 | 353 | 372 | 364 | 382 | 346 | 382 | 399 | 394 | 395 |
| West North Central..... | 241 | 497 | 248 | 509 | 231 | 492 | 178 | 518 | 312 | 589 |
| South Atlantic..... | 231 | 305 | 284 | 364 | 312 | 354 | 327 | 311 | 371 | 342 |
| East South Central..... | 75 | 534 | 121 | 558 | 87 | 405 | 81 | 482 | 110 | 487 |
| West South Central..... | 86 | 139 | 56 | 125 | 66 | 71 | 79 | 95 | 89 | 102 |
| Mountain..... | 267 | 296 | 172 | 305 | 155 | 305 | 172 | 400 | 215 | 305 |
| Pacific..... | 128 | 94 | 124 | 145 | 158 | 122 | 135 | 96 | 147 | 110 |

See footnotes at end of table.

Summary of weekly reports from cities, February 14 to March 19, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931¹—Continued

SMALLPOX CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|
| | Feb. 20, 1932 | Feb. 21, 1931 | Feb. 27, 1932 | Feb. 28, 1931 | Mar. 5, 1932 | Mar. 7, 1931 | Mar. 12, 1932 | Mar. 14, 1931 | Mar. 19, 1932 | Mar. 21, 1931 |
| 98 cities..... | 4 | 20 | 4 | 20 | 4 | 13 | 5 | 19 | 5 | 22 |
| New England..... | 5 | 0 | 5 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| Middle Atlantic..... | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East North Central..... | 1 | 13 | 1 | 11 | 7 | 15 | 5 | 9 | 4 | 8 |
| West North Central..... | 13 | 128 | 19 | 128 | 6 | 57 | 11 | 132 | 10 | 130 |
| South Atlantic..... | 0 | 2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| East South Central..... | 29 | 18 | 17 | 23 | 17 | 23 | 46 | 0 | 12 | 12 |
| West South Central..... | 7 | 51 | 7 | 64 | 7 | 47 | 0 | 61 | 13 | 95 |
| Mountain..... | 0 | 44 | 0 | 9 | 0 | 17 | 17 | 17 | 17 | 9 |
| Pacific..... | 21 | 22 | 13 | 39 | 4 | 12 | 13 | 41 | 11 | 43 |

TYPHOID FEVER CASE RATES

| | 3 | | 4 | | 5 | | 7 | | 8 | | 4 | | 4 | |
|-------------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 98 cities..... | 3 | 4 | 5 | 7 | 8 | 4 | 5 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| New England..... | 0 | 0 | 2 | 5 | 5 | 5 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Middle Atlantic..... | 4 | 3 | 4 | 6 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| East North Central..... | 3 | 0 | 4 | 3 | 6 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| West North Central..... | 0 | 4 | 2 | 11 | 0 | 11 | 2 | 0 | 1 | 2 | 2 | 2 | 2 | 2 |
| South Atlantic..... | 10 | 10 | 16 | 22 | 20 | 12 | 25 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| East South Central..... | 0 | 0 | 12 | 6 | 17 | 18 | 6 | 18 | 20 | 20 | 20 | 20 | 20 | 20 |
| West South Central..... | 3 | 7 | 7 | 14 | 16 | 0 | 10 | 14 | 23 | 23 | 23 | 23 | 23 | 23 |
| Mountain..... | 0 | 9 | 0 | 0 | 0 | 0 | 9 | 0 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pacific..... | 2 | 12 | 6 | 4 | 0 | 2 | 8 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |

INFLUENZA DEATH RATES

| | 20 | | 60 | | 34 | | 50 | | 37 | | 44 | | 37 | | 34 | | 37 | | 32 | |
|-------------------------|----------------|-----|----|----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| | 91 cities..... | 20 | 60 | 34 | 50 | 37 | 44 | 37 | 34 | 37 | 34 | 37 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| New England..... | 7 | 43 | 14 | 24 | 17 | 19 | 19 | 36 | 10 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| Middle Atlantic..... | 13 | 42 | 39 | 40 | 42 | 32 | 47 | 23 | 39 | 23 | 39 | 23 | 39 | 23 | 39 | 23 | 39 | 23 | 39 | 23 |
| East North Central..... | 18 | 61 | 37 | 61 | 41 | 48 | 39 | 28 | 40 | 28 | 40 | 28 | 40 | 28 | 40 | 28 | 40 | 28 | 40 | 28 |
| West North Central..... | 49 | 68 | 29 | 74 | 32 | 59 | 15 | 50 | 34 | 47 | 34 | 47 | 34 | 47 | 34 | 47 | 34 | 47 | 34 | 47 |
| South Atlantic..... | 18 | 123 | 31 | 79 | 33 | 73 | 39 | 57 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| East South Central..... | 25 | 140 | 44 | 76 | 13 | 140 | 25 | 102 | 50 | 115 | 50 | 115 | 50 | 115 | 50 | 115 | 50 | 115 | 50 | 115 |
| West South Central..... | 50 | 97 | 24 | 45 | 71 | 52 | 37 | 55 | 61 | 35 | 61 | 35 | 61 | 35 | 61 | 35 | 61 | 35 | 61 | 35 |
| Mountain..... | 78 | 61 | 69 | 17 | 34 | 44 | 26 | 35 | 43 | 35 | 43 | 35 | 43 | 35 | 43 | 35 | 43 | 35 | 43 | 35 |
| Pacific..... | 14 | 26 | 14 | 41 | 12 | 34 | 7 | 36 | 12 | 34 | 7 | 36 | 12 | 34 | 7 | 36 | 12 | 34 | 7 | 36 |

PNEUMONIA DEATH RATES

| | 154 | | 218 | | 157 | | 212 | | 189 | | 194 | | 193 | | 191 | | 187 | | 184 | |
|-------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 91 cities..... | 154 | 218 | 157 | 212 | 189 | 194 | 193 | 191 | 187 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |
| New England..... | 120 | 276 | 192 | 236 | 192 | 185 | 194 | 147 | 156 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 |
| Middle Atlantic..... | 162 | 236 | 184 | 217 | 221 | 229 | 250 | 214 | 238 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| East North Central..... | 133 | 187 | 110 | 192 | 158 | 154 | 131 | 139 | 133 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 |
| West North Central..... | 285 | 147 | 244 | 218 | 241 | 218 | 215 | 159 | 170 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 |
| South Atlantic..... | 163 | 340 | 173 | 313 | 196 | 265 | 224 | 332 | 233 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 | 269 |
| East South Central..... | 144 | 267 | 138 | 274 | 169 | 229 | 182 | 242 | 201 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| West South Central..... | 165 | 228 | 108 | 221 | 172 | 149 | 148 | 211 | 205 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Mountain..... | 198 | 200 | 224 | 191 | 198 | 131 | 207 | 235 | 233 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| Pacific..... | 91 | 70 | 104 | 91 | 102 | 101 | 118 | 125 | 93 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |

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, 1932 and 1931, respectively.

² Kansas City, Mo., not included.

FOREIGN AND INSULAR

INFLUENZA IN EUROPE

England and Wales.—The following table gives the number of deaths from influenza reported in 117 great towns in England and Wales, including London, during the 10 weeks ended March 5, 1932.

| Week ended— | Number of deaths | Week ended— | Number of deaths |
|--------------|------------------|--------------|------------------|
| 1932 | | 1932 | |
| Jan. 2..... | 240 | Feb. 6..... | 278 |
| Jan. 9..... | 412 | Feb. 13..... | 279 |
| Jan. 16..... | 412 | Feb. 20..... | 364 |
| Jan. 23..... | 392 | Feb. 27..... | 324 |
| Jan. 30..... | 313 | Mar. 5..... | 298 |

Denmark.—The number of cases of influenza reported in Denmark during the month of January, 1932, was 10,174, as compared with 4,423 cases in December and 4,801 in November, 1931. The disease is said to be of a mild type, the mortality being very low.

The number of cases of influenza reported in the city of Copenhagen during the five weeks ended February 20 is shown in the following table.

| Week ended— | Number of cases | Week ended— | Number of cases |
|--------------|-----------------|--------------|-----------------|
| 1932 | | 1932 | |
| Jan. 23..... | 498 | Feb. 13..... | 2,863 |
| Jan. 30..... | 594 | Feb. 20..... | 7,144 |
| Feb. 6..... | 913 | | |

Switzerland.—A mild type of influenza was reported to be prevalent in Switzerland, the number of deaths attributed to the disease in districts with more than 10,000 population being 22 during the week ended February 13, 1932, and 15 during the following week.

Cases of influenza were reported in the city of Berne during the three weeks ended February 20, 1932, as follows:

| Week ended— | Number of cases | Week ended— | Number of cases |
|--------------------|-----------------|--------------------|-----------------|
| Feb. 6, 1932..... | 675 | Feb. 20, 1932..... | 2,703 |
| Feb. 13, 1932..... | 2,504 | | |

CANADA

Provinces—Communicable diseases—Week ended March 12, 1932.—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended March 12, 1932, as follows:

| Province | Cerebro-spinal fever | Influenza | Pollo-myelitis | Smallpox | Typhoid fever |
|---|----------------------|-----------|----------------|----------|---------------|
| Prince Edward Island ¹ | | | | | |
| Nova Scotia..... | | 35 | | | 3 |
| New Brunswick..... | | | 1 | | 1 |
| Quebec..... | | | | | 4 |
| Ontario..... | 1 | 705 | | 1 | |
| Manitoba ¹ | | | | | |
| Saskatchewan..... | | | | 5 | |
| Alberta ¹ | | | | | |
| British Columbia..... | | | | 7 | |
| Total..... | 1 | 740 | 1 | 13 | 8 |

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

Quebec Province—Communicable diseases—Week ended March 12, 1932.—During the week ended March 12, 1932, cases of certain communicable diseases were reported in the Province of Quebec, Canada, as follows:

| Disease | Cases | Disease | Cases |
|---------------------|-------|---------------------------|-------|
| Chicken pox..... | 90 | Puerperal septicemia..... | 4 |
| Diphtheria..... | 39 | Scarlet fever..... | 77 |
| German measles..... | 5 | Tuberculosis..... | 20 |
| Erysipelas..... | 5 | Typhoid fever..... | 4 |
| Measles..... | 425 | Whooping cough..... | 45 |

CZECHOSLOVAKIA

Communicable diseases—January, 1932.—During the month of January, 1932, certain communicable diseases were reported in Czechoslovakia, as follows:

| Disease | Cases | Deaths | Disease | Cases | Deaths |
|-------------------------------|--------|--------|----------------------|--------|--------|
| Anthrax..... | 5 | | Puerperal fever..... | 30 | 13 |
| Cerebrospinal meningitis..... | 20 | 5 | Scarlet fever..... | 1, 574 | 21 |
| Diphtheria..... | 2, 536 | 125 | Trachoma..... | 86 | |
| Dysentery..... | 5 | 2 | Typhoid fever..... | 323 | 36 |
| Malaria..... | 2 | | Typhus fever..... | 1 | |
| Paratyphoid fever..... | 9 | | | | |

DENMARK

Communicable diseases—December, 1931.—During the month of December, 1931, cases of certain communicable diseases were reported in Denmark as follows:

| Disease | Cases | Disease | Cases |
|-------------------------------|-------|---|-------|
| Cerebrospinal meningitis..... | 5 | Paratyphoid fever..... | 53 |
| Chicken pox..... | 34 | Poliomyelitis..... | 5 |
| Diphtheria and croup..... | 326 | Puerperal fever..... | 20 |
| Erysipelas..... | 262 | Scabies..... | 841 |
| German measles..... | 14 | Scarlet fever..... | 222 |
| Gonorrhoea..... | 856 | Syphilis..... | 92 |
| Influenza..... | 4,423 | Typhoid fever..... | 10 |
| Lethargic encephalitis..... | 7 | Undulant fever (Bact. abort. Bang)..... | 36 |
| Measles..... | 2,071 | Whooping cough..... | 2,600 |
| Mumps..... | 218 | | |

EGYPT

Cerebrospinal meningitis.—According to a recent report, the city of Cairo and its environs were declared infected with cerebrospinal meningitis in a decree promulgated by the Egyptian Government on March 3, 1932. A similar decree was issued on February 21, 1932, with regard to the village of Mankarich, Beni Suef Province, and a number of towns and villages in Lower Egypt have also been declared infected.

The total number of cases and deaths from cerebrospinal meningitis reported in Egypt up to February 25, 1932, was 1,022, as compared with 60 last year.

GREAT BRITAIN

England and Wales—Vital statistics—October–December, 1931.—During the fourth quarter of the year 1931, 147,619 births and 117,992 deaths were registered in England and Wales, giving a birth rate on an annual basis of 14.6 per 1,000 population and a death rate of 11.7 per 1,000. The figures are provisional. The mortality of infants under 1 year of age was 66 per 1,000 live births.

During the 13 weeks ended January 2, 1932, deaths from certain communicable diseases were reported in 107 county boroughs and great towns, including Greater London, as follows:

| Disease | Number of deaths | Death rate per 1,000 population | Disease | Number of deaths | Death rate per 1,000 population |
|---|------------------|---------------------------------|---------------------|------------------|---------------------------------|
| Diarrhea and enteritis (under 2 years)..... | 771 | | Measles..... | 354 | 0.07 |
| Diphtheria..... | 394 | 0.08 | Scarlet fever..... | 54 | .01 |
| Influenza..... | 1,176 | .24 | Typhoid fever..... | 17 | |
| | | | Whooping cough..... | 362 | .07 |

Deaths from certain diseases in 159 smaller towns for the quarter ended December 31, 1931, were as follows:

| Disease | Deaths | Disease | Deaths |
|---|--------|---------------------|--------|
| Diarrhea and enteritis (under 2 years)..... | 83 | Scarlet fever..... | 22 |
| Diphtheria..... | 44 | Smallpox..... | 1 |
| Influenza..... | 299 | Typhoid fever..... | 5 |
| Measles..... | 28 | Whooping cough..... | 60 |

England and Wales—Infectious diseases—Thirteen weeks ended January 2, 1932.—During the 13 weeks ended January 2, 1932, cases of certain infectious diseases were reported in England and Wales as follows:

| Disease | Cases | Disease | Cases |
|----------------------------|---------|------------------------|---------|
| Diphtheria..... | 12, 826 | Puerperal pyrexia..... | 1, 325 |
| Ophthalmia neonatorum..... | 1, 135 | Scarlet fever..... | 22, 811 |
| Pneumonia..... | 14, 722 | Smallpox..... | 636 |
| Puerperal fever..... | 527 | Typhoid fever..... | 466 |

ITALY

Communicable diseases—Four weeks ended December 13, 1931.—During the four weeks ended December 13, 1931, cases of certain communicable diseases were reported in Italy as follows:

| Disease | Nov. 16-22 | | Nov. 23-29 | | Nov. 30-Dec. 6 | | Dec. 7-13 | |
|-------------------------------|------------|--------------------|------------|--------------------|----------------|--------------------|-----------|--------------------|
| | Cases | Com-munes affected | Cases | Com-munes affected | Cases | Com-munes affected | Cases | Com-munes affected |
| Anthrax..... | 21 | 19 | 21 | 18 | 13 | 13 | 18 | 16 |
| Cerebrospinal meningitis..... | 4 | 4 | 7 | 7 | 10 | 10 | 9 | 9 |
| Chicken pox..... | 301 | 96 | 281 | 113 | 316 | 124 | 315 | 121 |
| Diphtheria and croup..... | 553 | 284 | 624 | 319 | 659 | 347 | 610 | 302 |
| Dysentery..... | 8 | 5 | 5 | 4 | 3 | 3 | 6 | 6 |
| Lethargic encephalitis..... | ..... | 5 | 5 | 5 | ..... | ..... | ..... | ..... |
| Measles..... | 1, 067 | 162 | 1, 459 | 191 | 1, 210 | 195 | 1, 576 | 179 |
| Poliomyelitis..... | 13 | 11 | 21 | 16 | 16 | 13 | 11 | 10 |
| Scarlet fever..... | 376 | 141 | 412 | 160 | 362 | 151 | 420 | 147 |
| Smallpox..... | ..... | ..... | ..... | ..... | 1 | 1 | ..... | ..... |
| Typhoid fever..... | 547 | 311 | 472 | 237 | 485 | 259 | 382 | 212 |

VIRGIN ISLANDS

Notifiable diseases—January–February, 1932.—During the months of January and February, 1932, cases of certain diseases were reported in the Virgin Islands as follows:

| Disease | Cases | | Disease | Cases | |
|---------------------------------|----------|-----------|-----------------------------|----------|-----------|
| | Janu-ary | Feb-ruary | | Jan-uary | Feb-ruary |
| St. Thomas and St. John: | | | St. Croix—Continued. | | |
| Gonorrhoea..... | 1 | ..... | Filariasis..... | ..... | 1 |
| Malaria..... | 2 | ..... | Fish poisoning..... | ..... | 1 |
| Pellagra..... | 1 | 1 | Gonorrhoea..... | 3 | 1 |
| Syphilis..... | 17 | 5 | Leprosy..... | 2 | 2 |
| Tuberculosis..... | 1 | 1 | Malaria..... | 230 | 135 |
| Uncinariasis..... | ..... | 1 | Puerperal fever..... | ..... | 1 |
| St. Croix: | | | Syphilis..... | 3 | 5 |
| Chancroid..... | ..... | 1 | Tuberculosis..... | 3 | 3 |
| Chicken pox..... | 8 | 16 | Whooping cough..... | ..... | 3 |
| Dengue..... | 1 | ..... |  |  |  |

| | | | | | | | | | | | | | | | | | |
|--|----|-----|-----|----|---|---|----|---|----|----|---|----|---|--|--|--|--|
| Pensis: | 1 | 3 | 1 | | | | | | | | | | | | | | |
| Abadan..... | 12 | 103 | 47 | | | | | | | | | | | | | | |
| Ahwaz..... | 7 | 98 | 39 | | | | | | | | | | | | | | |
| Khorrarnabad..... | | | 159 | 2 | 1 | | | | | | | | | | | | |
| Mohammerah..... | 1 | | 115 | 9 | 1 | | | | | | | | | | | | |
| Philippine Islands: 1 Capiz Province..... | 35 | 12 | 27 | 13 | 4 | 5 | 13 | 9 | 13 | 10 | 8 | 12 | 8 | | | | |
| Stam..... | 16 | 9 | 19 | 10 | 3 | 3 | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | |
| Ayudhya Province..... | | | 1 | | | | | | | | | | | | | | |
| Bangkok..... | 1 | | 1 | | | | 1 | | | | | | | | | | |
| | 1 | | 1 | | | | 1 | | | | | | | | | | |
| On vessels: | | | | | | | | | | | | | | | | | |
| S. S. Kasagi Maru, at Moji, from Shanghai..... | 1 | | | | | | | | | | | | | | | | |
| S. S. Ankoo, at Nagasaki, from Shanghai..... | 2 | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | |

| Place | December, 1931 | | | | | | January, 1932 | | | February, 1932 | | | | |
|---|----------------|-------|-----------------|-------|---------------|-------|----------------|-------|------|----------------|-------|-------|-------|--|
| | August, 1931 | | September, 1931 | | October, 1931 | | November, 1931 | | 1-10 | | 11-20 | | 21-31 | |
| | 1-10 | 11-20 | 1-10 | 11-20 | 1-10 | 11-20 | 1-10 | 11-20 | 1-10 | 11-20 | 1-10 | 11-20 | 21-31 | |
| Indo-China (French) (see also table above): | | | | | | | | | | | | | | |
| Annam 1 | | | | | | | | | | | | | | |
| Cambodia 1 | | | | | | | | | | | | | | |
| Cochin-China 1 | | | | | | | | | | | | | | |

1 Figures for cholera in the Philippine Islands are subject to correction.
 ; Reports incomplete.

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

PLAGUE

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

| Place | Week ended— | | | | | | | | | | | | |
|---|----------------|-----|-----|---------------|-----|-----|-----|----------------|-----|-----|-------------|-----|----|
| | December, 1931 | | | January, 1932 | | | | February, 1932 | | | March, 1932 | | |
| | 19 | 26 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 5 | 12 |
| Argentina: Cordoba Provinces ¹ | C | | 1 | | | | | | | | | 1 | |
| Azores: San Miguel Island..... | C | | | | | | | | | | | | |
| Tercera Island..... | C | | | | | | | | | | | | |
| Belgian Congo..... | C | | | | | | | | | | | | |
| British East Africa (see also table below): | | | | | | | | | | | | | |
| Tanganyika..... | C | 4 | 13 | | | | | | 10 | | | | |
| Uganda..... | C | 5 | | | | | | | 10 | | | | |
| Canary Islands: Palma Island—Los Lanos..... | C | 269 | 215 | 143 | 28 | 13 | 9 | | 13 | | | | |
| | C | 207 | 211 | 138 | 24 | 15 | 10 | | 13 | | | | |
| Ceylon: Colombo..... | C | | | | | | | | 8 | | | | |
| | C | 3 | 3 | 1 | | | | | 5 | | | | |
| | C | 3 | | 1 | | | | | 1 | | | | |
| Plague-infected rats..... | | | | | | | | | 4 | | | | |
| Chile: Santiago..... | C | | | 1 | | | | | 1 | | | | |
| | C | | | 1 | | | | | 1 | | | | |
| China: ¹ | | | | | | | | | | | | | |
| Plague-infected rats..... | | | | | | | | | | | | | |
| France: Sines Province ¹ | C | | P | | | | | | | | | | |
| Siam: Siam Province..... | C | | P | | | | | | | | | | |
| Dutch East Indies: Java..... | C | | | | | | | | | | | | |
| Surabaya..... | C | | | | | | | | | | | | |
| Tegei..... | C | | | | | | | | | | | | |
| Java and Madura..... | C | 283 | 264 | 702 | 170 | 151 | 136 | 121 | 162 | 127 | 126 | 144 | |
| West Java..... | C | 65 | 113 | 130 | 64 | 64 | 39 | 40 | 54 | 48 | 54 | | |
| | C | 65 | 113 | 139 | 64 | 64 | 39 | 40 | 54 | 48 | 54 | | |

Ecuador (see table below).

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|--|--|--|--|----|---|
| Egypt: | | | | | | | | | | | | | | | | | | | | | | | |
| Alexandria..... | C | 5 | 1 | 6 | 2 | 3 | | | | | | | | | 1 | 1 | | | | | | 1 | 1 |
| Assiout..... | C | 2 | | | | 3 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| Behelra..... | C | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| Girga..... | C | 2 | | | | | | | | | | | | 1 | 10 | | | | | | | | |
| Kena..... | C | | | | | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| Minieh..... | C | | | | | 4 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | | | |
| Port Said..... | C | | | | | 4 | 2 | 1 | 3 | 3 | | | | | | | | | | | | | |
| Tanta..... | C | 2 | | | | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | |
| France: Rouen-Devilleles..... | C | | | | | | | | | | | | | | | | | | | | | | |
| Hawaii Territory: | C | | | | | | | | | | | | | | | | | | | | | | |
| Hamakua-Honokaa..... | C | | | | P | | | | | | | | | | | | | | | | | | |
| India: | | | | | | | | | | | | | | | | | | | | | | | |
| Plague-infected rats..... | C | | | | | | | | | | | | | | | | | | | | | | |
| Maul Island..... | C | | | | | | | | | | | | | | | | | | | | | | |
| Halimaille-Plague-infected rats..... | C | 1 | | | | | | | | | | | | | | | | | | | | | |
| Makawao..... | D | | | | | | | | | | | | | | | | | | | | | | |
| Plague-infected rats..... | C | | | | | | | | | | | | | | | | | | | | | | |
| Pala-Plague-infected rats..... | C | 1 | 1 | | | | | | | | | | | | | | | | | | | | 1 |
| Pasaulo-Plague-infected rats..... | C | | | | | | | | | | | | | | | | | | | | | | 1 |
| India..... | C | 1,832 | 2,550 | 2,493 | 1 | 4,285 | 1,131 | 1,256 | 1,195 | 2,416 | 1,731 | | | | | | | | | | | | |
| Bassein..... | C | 1,772 | 1,147 | 1,170 | 1,739 | | 526 | 575 | 715 | 1,096 | 840 | | | | | | | | | | | | |
| Bombay..... | C | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | 1 | |
| Bombay..... | C | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | 1 | |
| Plague-infected rats..... | D | | | | | | | | | | | | | | | | | | | | | | 2 |
| Madras Presidency..... | C | 57 | 42 | 22 | 66 | 17 | 7 | 9 | 9 | 8 | 18 | 14 | 17 | 21 | 27 | 30 | 31 | | | | | 2 | |
| Moulmein..... | C | 376 | 185 | 91 | 57 | 30 | 76 | 63 | 30 | 87 | 99 | 87 | 22 | 24 | 24 | 10 | | | | | | 10 | |
| Rangoon..... | D | 162 | 105 | 40 | 24 | 3 | 26 | 30 | | 58 | 54 | 35 | 14 | 15 | | | | | | | | 6 | |
| Plague-infected rats..... | C | 5 | | | | | | | | | | | | | | | | | | | | | |
| Indo-China (see table below): | C | 9 | 2 | | | 1 | | 1 | 1 | 1 | 2 | 2 | | | | | | | | | | 3 | |
| Indo-China (see table below): | C | 3 | | 5 | | 1 | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 3 | |
| Indo-China (see table below): | D | 2 | | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 1 | |
| Indo-China (see table below): | D | 4 | | 1 | | 2 | | | | | | | | | | | | | | | | | 1 |

110 cases of bubonic plague were reported in Cordoba Province, Argentina, in January, 1932. They were distant from railroad and 500 kilometers from ports.

† On Sept. 19, 1931, 13 deaths from plague were reported in Changchuanpu, China, and new cases in Kaiting and Fengting.

‡ On Oct. 17, 1931, plague epidemic was reported in western Shansi Province, China, with 2,000 deaths in Hsingtunen.

| Place | Aug- ust, 1931 | Sep- tem- ber, 1931 | Octo- ber, 1931 | Nov- em- ber, 1931 | De- cem- ber, 1931 | Jan- uary, 1932 | Feb- ru- ary, 1932 | Place | Aug- ust, 1931 | Sep- tem- ber, 1931 | Octo- ber, 1931 | Nov- em- ber, 1931 | De- cem- ber, 1931 | Jan- uary, 1932 | Feb- ru- ary, 1932 |
|--|----------------------|------------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|---|----------------------|------------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|
| British East Africa (see also table above): Kenya..... | 235 | 14 | 64 | 44 | 41 | 17 | 29 | Peru—Continued. Departments—Continued. | | | | | | | |
| Ecuador: Province— | | | | | | | | Lambayeque..... | | 1 | | | | | |
| Chimborazo..... | | 13 | 2 | 8 | | 8 | 13 | Libertad..... | | | | 2 | | 1 | |
| Loja..... | | 4 | 11 | 2 | | 11 | | Lima..... | | 1 | | 9 | | 6 | |
| Indo-China..... | | 4 | 3 | | 9 | 16 | 1 | Plague-infected rats Lima..... | | 1 | 1 | 4 | | | |
| Madagascar (see also table above): | | | | | | 9 | 1 | Plura..... | | | | 1 | | | |
| Ambositra Province..... | 2 | 1 | 8 | 39 | 142 | | | Senegal: | | | 8 | 1 | | 1 | |
| Antsirabe Province..... | 1 | 1 | 5 | 37 | 121 | | | Baol..... | 101 | 13 | 6 | 2 | | | |
| Maevatanana Provinces..... | 22 | 19 | 17 | 27 | 56 | | | Dakar..... | 58 | 8 | 2 | | | | |
| Miarinarivo Provinces..... | 22 | 19 | 17 | 27 | 51 | | | Dourbel..... | 194 | 45 | 4 | | | | |
| Moramanga Provinces..... | 20 | 14 | 18 | 10 | 14 | | | Diourbel..... | 106 | 31 | 4 | 10 | | | |
| Tananarive Provinces..... | 3 | 12 | 13 | 25 | 30 | | | Louga..... | | 13 | 5 | 5 | | | |
| Peru..... | 3 | 11 | 11 | 25 | 26 | | | Rufisque..... | 2 | 10 | 1 | 19 | | | |
| Departments— | 46 | 65 | 120 | 186 | 248 | | | Thies..... | 2 | 4 | 2 | 10 | | | |
| Canete..... | 44 | 63 | 117 | 178 | 241 | | | Yombel..... | 2 | 1 | 7 | 12 | | | |
| Cajamarca..... | 19 | 2 | 8 | 27 | 21 | 11 | | | 26 | 12 | 7 | 16 | 1 | | |
| | 14 | 2 | 7 | 11 | 9 | 3 | | | 16 | 8 | 6 | 7 | 1 | | |
| | | | | 14 | | | | | | | | | | | |
| | | | | 5 | | | | | | | | | | | |

¹ Reports incomplete.

| | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|-------|-------|-------|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|----|
| Foochow | P | 1 | 18 | P | 29 | 6 | 1 | P | 1 | P | 32 | 15 | P | 2 | 2 | 2 | 2 |
| Hankow | C | D | | | | | | | 11 | | 6 | 3 | | | | | |
| Hong Kong | C | D | | | | | | | 34 | | 7 | 1 | | | | | 12 |
| Manchuria—Dairen | C | D | | | | | | | 7 | | 10 | 19 | | | | | 6 |
| Nanking | C | D | | | | | | | 1 | | 4 | 2 | | | | | 9 |
| Shanghai | C | D | | | | | | | 1 | | 1 | 1 | | | | | 3 |
| Foreigners only | C | D | | | | | | | | | | | | | | | |
| Including natives | C | D | | | | | | | | | | | | | | | |
| Swatow | C | D | 98 | 21 | 77 | 16 | 40 | 18 | 41 | 48 | 48 | 40 | 32 | 48 | 30 | 44 | 45 |
| Tientsin | C | D | 13 | 2 | 31 | 8 | 13 | 6 | 14 | 11 | 21 | 17 | 13 | 24 | 18 | 17 | 8 |
| Chosen (see table below) | C | D | | | | | | | 2 | | | | | | | | |
| Colombia: Cali | C | D | | | | | | | 1 | | | | | | | | |
| Dutch East Indies: Batavia | C | D | | | | | | | 1 | | | | | | | | |
| Egypt: | C | D | | | | | | | | | | | | | | | |
| Cairo | C | D | | | | | | | | | | | | | | | |
| Suez | C | D | | | | | | | | | | | | | | | |
| France (see table below) | C | D | | | | | | | | | | | | | | | |
| Germany: Aix-la-Chapelle | C | D | | | | | | | | | | | | | | | |
| Great Britain: | C | D | | | | | | | | | | | | | | | |
| England and Wales | C | D | 161 | 220 | 216 | 44 | 32 | 54 | 68 | 68 | 68 | 55 | 49 | 70 | 73 | 73 | 42 |
| London | C | D | 58 | 129 | 118 | 18 | 14 | 28 | 40 | 24 | 36 | 22 | 18 | 44 | 38 | 32 | 22 |
| London and Great Towns | C | D | 128 | 179 | 191 | 31 | 22 | 43 | 56 | 60 | 45 | 37 | 46 | 59 | 57 | 53 | 34 |
| Honduras: | C | D | | | | | | | | | | | | | | | |
| Celiba | C | D | 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Puerto Castilla | C | D | | | | | | | | | | | | | | | |
| Tequigalpa | C | D | | | | | | | | | | | | | | | |
| Trujillo | C | D | | | | | | | | | | | | | | | |
| India: | C | D | | | | | | | | | | | | | | | |
| Bassain | C | D | 1,451 | 1,152 | 2,298 | 362 | 426 | 619 | 954 | 795 | | | | | | | |
| Bombay | C | D | 1,224 | 246 | 1,066 | 84 | 96 | 110 | 174 | 180 | | | | | | | |
| Calcutta | C | D | | | | | | | | | | | | | | | |
| Cochin | C | D | | | | | | | | | | | | | | | |
| Karachi | C | D | | | | | | | | | | | | | | | |
| Madras | C | D | | | | | | | | | | | | | | | |
| Moulmein | C | D | | | | | | | | | | | | | | | |
| Negapatam | C | D | | | | | | | | | | | | | | | |
| Rangoon | C | D | | | | | | | | | | | | | | | |
| | C | D | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | C | D | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | C | D | 3 | 3 | 3 | 9 | 7 | 18 | 13 | 15 | 35 | 68 | 39 | 141 | 104 | 173 | 34 |
| | C | D | 3 | 3 | 3 | 1 | 1 | 2 | 7 | 7 | 8 | 15 | 10 | 18 | 46 | 28 | |

123 cases of smallpox with 8 deaths were reported at Vancouver, British Columbia, from Jan. 1 to Feb. 18, 1932.
 590 cases of smallpox with 15 deaths were reported in Honduras from July, 1931, to Feb. 16, 1932.

April 8, 1932

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Morocco (see table below). | | | | | | | | | | | | | | | | | | | | | | |
| Netherlands: Frisland—Opsterland. | | | | | | | | | | | | | | | | | | | | | | |
| Nigeria. | | | | | | | | | | | | | | | | | | | | | | |
| Panama: Chiriqui. | | | | | | | | | | | | | | | | | | | | | | |
| Poland. | | | | | | | | | | | | | | | | | | | | | | |
| Portugal. | | | | | | | | | | | | | | | | | | | | | | |
| Lisbon. | | | | | | | | | | | | | | | | | | | | | | |
| Oporto. | | | | | | | | | | | | | | | | | | | | | | |
| Siam. | | | | | | | | | | | | | | | | | | | | | | |
| Straits Settlements. | | | | | | | | | | | | | | | | | | | | | | |
| Sudan (Anglo-Egyptian). | | | | | | | | | | | | | | | | | | | | | | |
| Sweden: Malmo. | | | | | | | | | | | | | | | | | | | | | | |
| Syria (see table below). | | | | | | | | | | | | | | | | | | | | | | |
| Tunisia: Tunis. | | | | | | | | | | | | | | | | | | | | | | |
| Turkey: Istanbul. | | | | | | | | | | | | | | | | | | | | | | |
| Union of South Africa: | | | | | | | | | | | | | | | | | | | | | | |
| Cape Province. | | | | | | | | | | | | | | | | | | | | | | |
| Orange Free State. | | | | | | | | | | | | | | | | | | | | | | |
| Transvaal. | | | | | | | | | | | | | | | | | | | | | | |
| On vessels: | | | | | | | | | | | | | | | | | | | | | | |
| Brazilian ship Jabotao at New Orleans from Brazil. | | | | | | | | | | | | | | | | | | | | | | |
| S. Tacoma at Manila from Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Cressington Court at Yokohama from Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Ballington Court at Yokohama from Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Victoria City at Brisbane from Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Ballasoo at Mobile from Habana, Cuba, and Hull, England. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Frauentels at Suez from Calcutta. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Uwajima Maru at Osaka from Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. President Jackson at Yokohama from San Francisco via Honolulu. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Hong Kong at Singapore from Amoy, via Swatow and Hong Kong. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Hai Ning and S. S. Solviken at Hong Kong. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Merka at Aden from Colombo. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Tjisadane at Hong Kong from Shanghai and Amoy. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Poatung at Shanghai. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Rajula at Penang from Negapatam. | | | | | | | | | | | | | | | | | | | | | | |
| S. S. MacGhillivray at Suez from Rangoon. | | | | | | | | | | | | | | | | | | | | | | |

1 Imported case.

2 Suspected case.

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

SMALLPOX—Continued

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

| Place | 1931 | | | | 1932 | | | | 1932 | | 1932 | | | | |
|--|------------------|-------|----------------|-------|-----------------|------|-----------------|-------|----------------|-------|-----------------|------|------------------|-------|-----|
| | Septem-ber, 1931 | | Octo-ber, 1931 | | Novem-ber, 1931 | | Decem-ber, 1931 | | Janu-ary, 1932 | | Febru-ary, 1932 | | March 1-10, 1932 | | |
| | 1-10 | 11-20 | 1-10 | 11-20 | 21-31 | 1-10 | 11-20 | 21-31 | 1-10 | 11-20 | 21-31 | 1-10 | 11-20 | 21-29 | |
| Indo-China (see also table above)..... | C | 39 | 13 | 16 | 47 | 120 | 41 | 324 | 144 | 1107 | 191 | 145 | 208 | 309 | 280 |
| Ivory Coast..... | D | 13 | 13 | 16 | 16 | 22 | 17 | 55 | 21 | 11 | 52 | 47 | 98 | 96 | 100 |
| Syria: Beirut..... | D | | | | | 1 | | | | 2 | 3 | | | | |
| | C | | | | | | | | | | | | | | |

| Place | Sep-tem-ber, 1931 | Octo-ber, 1931 | No-ven-ber, 1931 | De-cem-ber, 1931 | Jan-uary, 1932 | Feb-ruary, 1932 | Place | | Sep-tem-ber, 1931 | Octo-ber, 1931 | No-ven-ber, 1931 | De-cem-ber, 1931 | Jan-uary, 1932 | Feb-ruary, 1932 |
|-------------|-------------------|----------------|------------------|------------------|----------------|-----------------|-------------------------------|---------|-------------------|----------------|------------------|------------------|----------------|-----------------|
| | | | | | | | Mexico (see also table above) | Morocco | | | | | | |
| Chosen..... | C | 9 | 7 | 2 | 1 | | | D | 585 | | | | | |
| France..... | C | 1 | 1 | 0 | 1 | | | C | 59 | 91 | 152 | 279 | 488 | 568 |

TYPHUS FEVER

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

| Place | Week ended— | | | | | | | | | | | | | | | |
|-------|----------------|----|---|---|----|---------------|----|---|----|----|----------------|---|----|----|----|--------------|
| | December, 1931 | | | | | January, 1932 | | | | | February, 1932 | | | | | |
| | 19 | 26 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 6 | 13 | 20 | 27 | Mar. 4, 1932 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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Algeria: Algiers.....
 Constantine Department.....
 Geryville.....
 Oran.....
 Bulgaria.....

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|----|----|----|--|-----|----|----|---|----|----|----|----|----|--|--|--|--|--|--|----|----|--|--|--|----|-----|-----|---|--|--|
| Chile: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antofagasta..... | C | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Santiago..... | C | | | 34 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| China: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manchuria—Harbin..... | C | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shanghai..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chosen (see table below)..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Columbia: Cali..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Czechoslovakia (see table below)..... | D | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Egypt: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alexandria..... | C | 2 | | | | 3 | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| Beheira..... | C | | 1 | | | | | | | | | 7 | | | | | | | | | | | | | | | | 68 | | | |
| Cairo..... | C | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Gharbieh..... | C | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Provinces..... | D | | | | | | | | | | | | | 11 | | | | | | | | 13 | | | | | 104 | 193 | | | |
| Greece (see table below)..... | D | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 5 | 17 | | | |
| Guatemala (see table below)..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irish Free State..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Donegal County—Stranlarlar..... | C | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Limerick County..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Croom..... | C | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glin..... | C | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limerick..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keshcotele..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waterford County—Lismore..... | C | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Latvia (see table below)..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lithuania (see table below)..... | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Merico: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guadaluajara..... | D | 10 | 14 | 16 | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mexico City, including municipalities in Federal District..... | D | | | | | | 4 | 3 | | | | | | 1 | | | | | | | | | | | | | | | | | |
| D..... | D | 4 | 8 | 4 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sank Luis Potosi..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turreon..... | D | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| C..... | C | | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | | 4 | 1 | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | | 4 | 6 | | 3 | 1 | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| D..... | D | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| D..... | D | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | 11 | 14 | 20 | | 106 | 68 | 30 | | 46 | 49 | 69 | 61 | | | | | | | | 74 | 61 | | | | 49 | 41 | 58 | | | |
| Paraguay: Asuncion..... | C | | 1 | 3 | | 10 | 5 | 5 | | 3 | 1 | 4 | | | | | | | | | | | | | | | | | | | |
| Peru: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Poland..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | 13 | 18 | 38 | | 68 | 25 | 41 | | 42 | 62 | 36 | | | | | | | | | 66 | 51 | | | | | | | | | |
| D..... | D | 1 | 3 | 9 | | 6 | 4 | 5 | | 1 | 3 | 1 | | | | | | | | | 8 | 1 | | | | | | | | | |
| D..... | D | 3 | | | | 2 | | | | 3 | | 1 | | | | | | | | | | 1 | | | | | | | | | |
| D..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turkey (see table below)..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D..... | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1 Typhus fever has been reported in Peru from May to November, 1931, in 36 new cases being reported during the months of October and November. The disease has not spread to the coastal regions.

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

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

| Place | Week ended— | | | | | | | | | | | | | |
|--|------------------|-------------------|------------------|------------------|------------------|----|----------------|---|----|-------------|----|---|----|----|
| | December, 1931 | | January, 1932 | | | | February, 1932 | | | March, 1932 | | | | |
| | 19 | 26 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 5 | 12 | 19 |
| Senegal: | Aug. 23-26, 1931 | Sept. 20-23, 1931 | Oct. 18-20, 1931 | Nov. 15-18, 1931 | Dec. 12-15, 1931 | | | | | | | | | |
| St. Louis..... | | 1 | | | | | | | | | | | | |
| Tibles..... | | 1 | | | | | | | | | | | | |
| Sudan (French): Machas—Kayo Circle..... | | | 2 | 2 | | | | | | | | | | |
| Togo (French): Atakpame—Anis Circle..... | | | 1 | 1 | 1 | | | | | | | | | |
| Upper Volta: | | | | | | | | | | | | | | |
| Banfora..... | | 2 | 1 | | | | | | | | | | | |
| Dedougou..... | | | 2 | | | | | | | | | | | |
| Diarabakoko..... | | 2 | | | | | | | | | | | | |
| Ouagadougou..... | 1 | 1 | 3 | | | | | | | | | | | |