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SOME CHILD HYGIENE ACTIVITIES OF THE UNITED STATES PUBLIC HEALTH SERVICE.

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The functions of the United States Public Health Service may be described under the following headings:

1. Protection of the United States from the introduction of disease from without.
2. Prevention of the interstate spread of disease and suppression of epidemics.
3. Cooperation with State and local boards of health in health matters.
4. Investigation of diseases of man.
5. Supervision and control of biological products.
6. Public health education and dissemination of health information.

In the exercise of these functions, in cooperation with State and local health authorities, the work of the Public Health Service has contributed very largely to the gradual decline in the general mortality rate of the country, which has been accompanied by a parallel reduction in the infant mortality rate. In other words, the United States Public Health Service, through efforts organizing better public health administration, improving the domestic and civic environment of the people, and through the wide dissemination of public health information, has been no small factor in reducing the infant mortality rate, which for a number of years has steadily declined, even without special attention to child health problems. In fact, even at the present time, as compared with the country at large, only a small part of the infant population enjoys the benefits of specialized health supervision.

Child Health Supervision.

In addition to the exercise of its general health functions on an increasingly broad scale, the Service has given attention to individual health problems and to the health needs of special classes of the population. In this connection, with special reference to safeguarding the health of infants and children, the Service in 1908 published a

bulletin on "Milk in Relation to Public Health." This publication contained many articles relating to milk as an infant's food and, in addition, special articles relating to infant feeding, morbidity, and mortality. This bulletin was widely distributed and contributed materially to the adoption by State and local health officials of measures for safeguarding the milk supply, one of the most important factors in the control of tuberculosis among children, and in reducing the morbidity and mortality rates due to the diarrheal diseases of children.

EPIDEMIOLOGICAL STUDIES.

In 1912 the Public Health Service, impressed by reports of the prevalence of trachoma in certain parts of the country, and mindful of the high incidence of this disease potentially so damaging to vision in children, inaugurated surveys to map out the areas of infection preparatory to the institution of measures of control. Owing to the fact that representatives of practically every family in the community attend school, these investigations were largely confined to examinations of school children. In the years 1912 to 1914, both inclusive, officers of the United States Public Health Service visited over 1,000 schools in 11 States and examined 170,491 school children, of which number 2,425, or 1.42 per cent, were found to be suffering from trachoma.

As a result of these surveys, in addition to measures adopted by the States and communities, the Public Health Service established seven special hospitals for the treatment of trachoma and has treated in them up to June 30, 1921, 9,168 cases. In addition, largely as an educational measure in methods of control, Service officers have held 158 clinics in the several States, where 29,770 cases of trachoma received 296,920 treatments, and where 10,378 operations were performed on cases amenable to surgical relief. The far-reaching effect of these measures on child health and efficiency, through the preservation and restoration of vision in individual cases and the improvement in the economic status of whole families in heavily infected communities can scarcely be estimated. Furthermore, the educational value of the medical and surgical measures adopted for the control of this disease to the communities at large stamps this as one of the great child hygiene movements of this country.

SCHOOL HYGIENE.

In the course of the epidemiological studies mentioned, the officers of the Service were instructed to make sanitary surveys of the school buildings visited by them and observations of the physical condition of the children inspected. As a result of these observations it became apparent that organized health work in schools had been largely confined to the cities and that the work should be extended to country

districts, where so many people reside without receiving instruction in the prevention of disease.

The sanitary needs revealed were many. In general, the faults observed were due to lack of skilled advice and assistance and concerned especially the health supervision of children and the location, construction, sanitation, and equipment of school buildings.

In order to secure material for the standardization of the work and for the purpose of focusing attention more particularly on school health supervision, in 1915 the Service made a survey of the rural schools of Porter County, Ind., in cooperation with the local health and educational authorities. During this survey exhaustive studies were made of the hygiene of 75 rural schools, and a medical and mental examination was made of 2,488 school children. This work has been continued, and up to the end of 1921 the Service had made sanitary surveys of hundreds of school buildings and examined large numbers of school children in nearly every State of the Union. The work of the Service in this field has attracted nation-wide attention and has contributed very materially to the advancement of school health supervision, especially in rural districts, where such service is so badly needed.

Based on the data collected in the course of these surveys and mindful of the relation of the child to the community in matters of health, the Service has devised a schedule for school health supervision which has been adopted, with only such modifications as were required by local condition, by six States. In addition, the Service has received local requests from practically every State for assistance in preparing or supplying these schedules.

MENTAL HYGIENE.

The studies of the child's school environment and his physical condition revealed the fact that both the health and educational authorities had been very lax in determining the mental status of the children attending school. On the basis of these observations, the Service undertook special studies of the mental status of children, with particular reference to the prevalence of feeble-mindedness and allied conditions. In the course of these studies there was made a mental survey of 50,630 children in 663 schools and 10 institutions in 10 States and the District of Columbia, and it was found that the percentage of feeble-mindedness in the school population of the communities visited ranged from 0.3 per cent to 1.3 per cent of those examined. Furthermore, as indicated by these examinations, it appears that the percentage of feeble-mindedness in the schools approximated that in the general population represented by individuals 5 to 20 years of age, inclusive, where the school attendance was not less than 80 per cent of the total enrollment. These studies also

indicate that the percentage of mental defectives in the school population is double that in the general population.

The work of the Public Health Service in this field has strongly supplemented the work of others in focusing attention on the problem of feeble-mindedness and the necessity of State provision for the care and training of this unfortunate class of the population.

In Arkansas, the work of the Service in determining the prevalence of feeble-mindedness in the State served as the basis of recommendations to the legislature which resulted in the establishment of an institution for the care and training of the feeble-minded. Formerly no such provision had been made. In the course of this survey the Service representative visited 51 rural schools in 13 counties, and 20 schools in 8 cities, and examined 16,913 children.

In Oregon, the Public Health Service, cooperating with the University Extension Division of the University of Oregon conducted a State-wide survey to determine the prevalence of dependency and feeble-mindedness in that State. This survey was undertaken by the University of Oregon, in compliance with a resolution of the State legislature. It was found that of a population of 783,285, the total number of cases of mental defect was 3,702, or 0.47 per cent of the general population.

The combined total of all the known insane and all known mental defectives, with the approximate number of mental defectives among all delinquents and all dependents, was 7,689, or 0.98 per cent of the general population.

The total number of actual and potential social liabilities was 65,423. Excluding half of the delinquents and half of the dependents, there remains a total of 45,574 persons, representing 5.8 per cent of the general population.

Excluding further the known cases of insanity, the known cases of grosser mental defect in communities and institutions, and, further, excluding one-half of the delinquents as petty offenders, and one-half of the dependents as probably remedial, there was found 29,847 individuals who, as delinquents and dependents, were socially inadequate. In other words, the larger part of all public expenditures for the relief, care, treatment, and training of misfits of the State was caused by 3.8 per cent of the inhabitants. The report of this survey served as the basis of recommendation to the legislature for more adequate provision for these classes of the population.

This survey represents the first attempt at the conduct of a survey by the people themselves under trained direction, and has demonstrated conclusively the feasibility of making a survey in this manner with practical results at a minimum expense.

In addition to its other work in the field of mental hygiene, the Service undertook, in 1920, at the request of the judge of the Juvenile

Court of the District of Columbia, studies of the mental and physical status of children appearing before that court. These studies have not only given greater insight into the psychology of the delinquent class, but have been of the greatest value to the court in arriving at judicial decisions. Furthermore, these studies have revealed a rather high degree of venereal infection in this class of the population, as well as a number of other conditions requiring medical attention, with the result that steps are now being taken to secure medical and surgical relief for those who can not have the necessary attention otherwise. Furthermore, the work of the Public Health Service in this field has served as the basis of recommendation to Congress for the provision of a permanent service of this character in the Juvenile Court.

CHILD HEALTH ORGANIZATION.

It matters not how great our knowledge may be of the causes of infant mortality, and of the methods of control, this knowledge is useless without a perfected machinery for its practical application. Realizing as it does that heretofore the great factor in reducing infant mortality has been the improved organization of public health administration, the Service has made an intensive study of child health organization in seven States. The results of these studies have been very gratifying. In one State, in which no money had previously been appropriated for child health work and but limited appropriation made for general health work, the activities of the Service excited State-wide interest to such a degree that very liberal appropriations have been made not only for general health work but for child health work also. Some of the concrete results attained were the appointment of a full-time director of child hygiene, the establishment of public health nurses in 29 counties, the organization of child health centers in 23 counties, the distribution of thousands of school inspection schedules and the undertaking of some form of school health supervision in approximately 50 counties of the State, and the enactment of a physical education law which provides for the teaching of health habits and for the physical examination of school children and definitely coordinates the department of education and the State department of health in their relation to the health supervision of school children. In addition, volunteer organizations engaged in health work have been stimulated to greater activity and impressed with the value of coordinated effort.

In another State the appropriations for child health work, largely through the activities of the Service, have doubled; and in another, the child health work has been planned and organized on a three-year basis, at the termination of which period it is expected that the major portion of the child population of the State will be under definite health supervision. These results indicate that this work

is of the greatest magnitude and importance from the standpoint of child health protection.

Research.

DRIED-MILK POWDER IN INFANT FEEDING.

The apostles of preventive medicine have emphasized the importance of breast feeding in giving children the best start in life and in reducing the infant mortality rate. However, many factors contribute to making breast feeding impossible, undesirable, or neglected in an unfortunately large number of instances, and recourse must be had to substitutes. Experience and the best medical judgment have confirmed the use of cow's milk as generally the best and most practical substitute for mother's milk. Unfortunately, over large areas of the country, cow's milk is not produced locally in sufficient quantity to supply the local needs. In other sections of the country it is produced in such quantity that much of it goes to waste, because of the cost of transportation or the lack of transportation facilities, and the distance limit that milk may be transported without deterioration. It is for these reasons that inquiring minds have turned to the solution of the problem and sought to make generally available this valuable food product at reasonable cost. As a result, the dried-milk products are coming into wider and wider use.

The value of these products as food for infants and older children has been demonstrated over and over again. However, except in institutional cases, no study of any magnitude had ever been undertaken in this country to establish the usefulness and safety of dried milk as an exclusive food for infants until that undertaken by the United States Public Health Service in August, 1919, in the city of Boston, Mass.

A total of 319 infants were enrolled for this study during the period August, 1919, to October, 1920. Of this number, 241 were under observation for sufficient length of time to furnish reliable data. The infants included in the study were not specially selected, but represented every type physically, and were recruited from all sorts and conditions of homes. The requirements for selection were that the infant should be entirely artificially fed, not more than six months old, and under the supervision of the Boston Baby Hygiene Association, which cooperated with the Service in this study. For purposes of study they were divided into three groups:

- Group I (control group), children fed on grade A market milk;
- Group II, children placed on whole milk powder (containing $3\frac{1}{2}$ per cent. butter fat; reconstituted in the home);
- Group III, children placed on milk which had been reconstituted from unsalted butter and skim milk powder.

The results of this study indicate that dried milk powder, of the brand used, is safe and of value as food for infants, and that it has some points of advantage in the case of babies who do not digest fresh cow's milk well. It was shown that the control infants in Group I made an average gain in weight less than that of the babies in either Group II or III, which were fed on dried milk products. In view of the fact that approximately four bottle-fed babies die to one fed at the breast, because of the use of improper substitutes, these studies of the Public Health Service point the way to a material lowering of the infant mortality rate from intestinal causes, by a wider use of the dried milk products in communities where pure fresh milk is not available.

Studies of the Relation of Physical Handicaps to the State of Nutrition.

During the latter part of the fiscal year 1921, 200 underweight children in Baltimore, Md., having one or more physical defects, were selected for the study of the effect of the correction of physical defects on growth and developments. The defects included decayed teeth, diseased tonsils, adenoids, and marked defects of hearing and vision. The defects were corrected in 153 of these children. An unlooked-for development of this study was a ramification from points of contact with the community, which resulted in the correction of defects in 67 children outside of the group studied.

The children included in this study were weighed at frequent intervals, both before and subsequent to the date of the correction of the physical defects, and were given no other special attention. With but one exception, every girl, after the correction of physical defects, gained at a more rapid rate than the normal average. This was also true of the boys from 8 to 12 years of age. This investigation furnished an important link in the evidence pointing to the hampering effect of physical defects on growth and development, and the benefits to be gained by their correction in childhood, even when other important welfare measures are neglected or not enforced.

MOUTH HYGIENE.

Paralleling studies of the relation of physical handicap to nutrition, during 1920 and 1921 the Public Health Service studied the mouth condition of over 15,000 children, in five States, with a view to determining the effect of dental decay and mouth sepsis on growth, development, and school progress, and, incidentally, to stimulate communities to provide dental facilities for the school children who are without them. The results of this latter phase of the work have been most gratifying. Not only have a number of local communities established or agreed to establish such facilities, but in

each State visited the State dental society has heartily indorsed the movement and is enlisting the gratuitous aid of the local dentists where communities are financially unable to carry on the work unassisted.

Decayed teeth and septic mouth conditions constitute a large majority of the defects observed in children of school age. Owing to the great number of children who suffer from these conditions, and the frequent harmful effect of such conditions on the physical well-being and school progress of the child, and the promptness with which tangible results of corrective work become evident, this work of the Public Health Service stands in the first rank of measures for the conservation of the health of children.

Studies of Growth and Development.

Different observers have reported from 30 to 70 per cent of the children examined by them as undernourished. The present generally accepted measure of nutrition is based on the standard standing height and weight for a given sex at a given age period. Several different standards of normal physical development are in use in this country which are based on very inconclusive data. In fact, at the present time, with but one exception, no such standard has been scientifically determined.

The effect on human growth and development, of wide geographical range and varying climatic conditions which affect the food supply, the varying densities of population, the different degrees of congestion of industrial operations and the different types of industries of different States and communities, the wide variation in the economic and social status of individual families, and the tremendous foreign immigration must be considered and makes it difficult to determine a standard of measurement which will be applicable to the whole country. It is possible that standards can be arrived at applicable only to certain sections of the country of more or less homogeneous population and uniform climate.

The Public Health Service is approaching this problem from a new angle and is collecting data on the growth and development of children of a given sex at different age periods, of native American stock, of native-born children of foreign-born parents according to racial stock, and of foreign-born children. These studies are being made on a large scale, and material will be collected in representative districts of the whole country in the attempt to supply the long-felt need of a reliable index of nutrition.

STANDARDIZATION OF THE COLLECTION OF FIELD DATA.

The Public Health Service has long felt the need of comparable data relating to child health in different sections of the country. The basic principles of child health work are well known, and certain

fundamental information relating to child health is desired and secured by practically all interested health agencies. Unfortunately, this information is largely collected in such manner, depending on the different agencies and individual workers, that it is difficult and well-nigh impossible to compare the data collected in one section of the country with that collected in another. The Public Health Service has prepared schedules which are in extensive use for recording data relating to prenatal care and the care of infants and children of pre-school age, for mouth hygiene, and for school health supervision work, with the object in view of using these forms as points of departure in the preparation of standard forms, in cooperation with the various health agencies of the country, that may be acceptable to all of them. By the use of such standards it will be possible to make comparisons and to utilize material collected in any section of the country for the evaluation of the effect of varying conditions and of special control measures on child health.

HEALTH EDUCATION.

The Public Health Service has prepared and distributed over 100 special articles having more or less direct bearing on child health. In addition to this, representatives of the Public Health Service, while conducting State-wide investigations in child hygiene, prepared much of the child health literature used by the States in which the investigations were conducted. Furthermore, during the year 1920, with the cooperation of 105 daily newspapers with wide circulation in practically every State in the Union, the Service published a series of articles on the "Care of the Baby" and another on "The Growing Child." These articles excited wide interest and were supplemented by hundreds of letters written in response to inquiries stimulated by them.

Present Work.

At the present time the Public Health Service is engaged in child health work in six States and will extend the work to include six other States. The plans of the Service contemplate investigations of every phase of child health conservation directed in such manner as to leave a permanent child health organization supported by the State or locality. Special investigations in individual States are made only in cooperation with State health authorities, on request, or with special agencies in any definite piece of child health investigation, indorsed by the State health authorities.

One of the remarkable features of the work of the Public Health Service is the small cost, which was made feasible by the type of organization. The total expenditure of special funds for child health work to the beginning of the fiscal year 1922, was \$66,000. The

relatively great amount of child health work by the Public Health Service was made possible by the ability of the Service to utilize not only its trained personnel in child hygiene work in connection with their regular duties in other fields of public health, but also the trained personnel of State and local health agencies and auxiliary volunteer agencies. Such procedure is both feasible and economical because of the intimate interrelationship of all health problems.

DIPHTHERIA IN THE UNITED STATES.

The accompanying table shows the number of reported cases of diphtheria per 1,000 population by quarters, from January to June, and by months, from July to October, 1921, compared with the same periods during 1920, and the medians for 1913 to 1920, inclusive.

The median was ascertained by arraying the figures so that the greatest number was first, the next smaller number was second, and so on to the smallest number, which was placed last. The middle number of the array was then selected as the median. Data were not available for all the States for the full eight years. As many years as possible were included for each State, but no year earlier than 1913 was used. The first column shows the number of years for which figures were obtained for each State.

The estimated populations on which the rates were computed are as follows:

	Number of States.	Estimated population.
1921.....	41	90,907,540
1920.....	40	87,602,619
Median, 1913-1920.....	39	85,499,347

For comparison the death rates per 100,000 population in the registration area for deaths are shown in the following table:

Diphtheria death rates per 100,000 population in registration area for deaths 1913-1920, inclusive.

1920.....	15.3	1915.....	15.7
1919.....	14.7	1914.....	17.9
1918.....	13.9	1913.....	18.9
1917.....	16.6		
1916.....	14.5	Median.....	15.5

Diphtheria—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1915 to 1920, inclusive.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	Septem- ber.	October.	10 months.
NEW ENGLAND.							
Maine:							
1921.....	1.20	0.87	1.07	0.51	0.90	1.83	1.05
1920.....	.61	.48	.73	.47	.48	1.86	.68
Median (5 years).....	.40	.29	.27	.42	.35	.85	.39
Vermont:							
1921.....	.74	.74	.75	1.02	1.47	1.81	.94
1920.....	.78	.60	.61	.44	.51	1.19	.69
Median (7 years).....	.80	.63	.75	.68	.88	1.36	.80
Massachusetts:							
1921.....	2.56	1.99	1.35	1.58	1.61	2.70	2.09
1920.....	2.20	1.58	1.46	1.32	1.28	2.30	1.77
Median (8 years).....	2.37	1.81	1.42	1.31	1.57	2.79	1.96
Rhode Island:							
1921.....	2.16	1.68	1.00	.61	1.11	1.45	1.57
1920.....	3.44	1.78	.91	.95	1.48	1.80	2.08
Median (6 years).....	2.13	1.57	1.12	1.10	1.41	2.08	1.68
Connecticut:							
1921.....	3.13	1.62	1.23	1.29	1.91	3.05	2.17
1920.....	2.87	1.99	1.27	1.39	1.64	3.53	2.24
Median (8 years).....	2.10	1.50	1.24	.96	1.59	2.74	1.73
MIDDLE ATLANTIC.							
New York:							
1921.....	3.68	2.69	1.26	1.22	1.39	2.18	2.52
1920.....	2.50	2.31	1.50	1.12	1.17	2.26	2.05
Median (8 years).....	2.36	2.28	1.61	1.19	1.33	2.24	2.03
New Jersey:							
1921.....	3.05	2.31	1.25	1.27	1.60	2.75	2.30
1920.....	2.23	1.68	1.08	.93	1.38	2.82	1.79
Median (8 years).....	2.15	1.87	1.46	1.17	1.67	2.82	1.92
Pennsylvania:							
1921.....	2.48	1.72	1.10	1.54	2.22	3.63	2.11
1920.....	1.99	1.25	.99	.94	1.59	2.96	1.62
Median (8 years).....	1.85	1.32	1.11	1.18	1.88	2.87	1.65
EAST NORTH CENTRAL.							
Ohio:							
1921.....	1.81	1.26	1.04	1.71	4.46	8.21	2.46
1920.....	1.05	.68	.55	.72	1.46	3.35	1.13
Median (7 years).....	1.33	.85	.72	.85	1.55	2.71	1.24
Indiana:							
1921.....	1.11	.94	.74	.98	3.52	7.16	1.83
1920.....	.71	.51	.39	.31	.50	1.54	.64
Median (8 years).....	1.09	.52	.51	.71	1.06	2.35	.95
Illinois:							
1921.....	2.75	1.95	1.35	1.52	2.91	6.67	2.65
1920.....	1.92	1.36	1.10	.96	1.67	3.52	1.71
Median (6 years).....	1.90	1.38	1.15	.95	1.45	2.45	1.58
Michigan:							
1921.....	3.39	2.34	1.43	1.99	3.05	4.95	2.86
1920.....	2.39	2.12	1.97	1.78	2.08	4.08	2.34
Median (8 years).....	1.64	1.30	1.28	1.12	1.42	2.33	1.50
Wisconsin:							
1921.....	2.22	1.14	.81	1.06	1.43	3.71	1.71
1920.....	.78	.65	.78	.86	.94	2.06	.93
Median (8 years).....	.85	.70	.64	.65	.73	1.25	.79
WEST NORTH CENTRAL.							
Minnesota:							
1921.....	1.37	1.11	.80	1.01	2.14	3.88	1.53
1920.....	1.40	1.06	1.10	1.38	1.35	2.03	1.32
Median (8 years).....	1.39	1.34	1.17	1.20	1.22	2.12	1.39
Iowa:							
1921.....	.63	.49	.26	.33	1.39	1.84	.72
1920.....	.38	.27	.26	.30	.48	.95	.39
Median (7 years).....	.35	.27	.20	.16	.30	.59	.31
North Dakota:							
1921.....	2.02	.74	1.10	.88	.95	1.23	1.24
1920.....	1.04	.44	.78	.79	.98	3.60	1.05
Median (4 years).....	.75	.46	.67	.54	.88	1.38	.71
South Dakota:							
1921.....	.69	.63	.56	.37	1.10	1.47	.74
1920.....	.52	.41	1.22	1.11	.41	.90	.64
Median (6 years).....	.40	.35	.50	.44	.27	.48	.39

Diphtheria—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1913 to 1920, inclusive—Continued.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	Septem- ber.	October.	10 months.
WEST NORTH CENTRAL—contd.							
Nebraska:							
1921.....	0.58	0.59	0.40	0.78	1.68	3.00	0.94
1920.....	.59	.32	.14	.32	1.06	1.70	.59
Median (1913-1920).....	.42	.36	.16	.33	.89	.74	.45
Kansas:							
1921.....	2.39	.99	1.24	1.58	7.25	13.63	3.38
1920.....	1.08	.54	.40	.74	2.61	8.07	1.67
Median (8 years).....	.83	.49	.40	.40	.78	2.37	.79
SOUTH ATLANTIC.							
Delaware:							
1921.....	.88	.83	.53	.64	.80	1.70	.88
1920.....	1.39	.89	.27	.48	.48	2.14	1.02
Maryland:							
1921.....	1.88	1.21	.72	1.01	1.21	2.99	1.52
1920.....	2.09	1.06	.76	.60	1.19	2.49	1.45
Median (6 years).....	1.60	.76	.66	.69	1.36	2.34	1.21
District of Columbia:							
1921.....	2.65	.85	.37	.24	1.30	2.46	1.49
1920.....	1.94	1.09	.49	.95	.95	2.00	1.35
Median (8 years).....	1.47	1.14	.56	.50	.91	2.17	1.20
Virginia:							
1921.....	1.47	.51	1.10	2.41	3.75	6.30	1.95
1920.....	.88	.46	.35	.65	2.12	5.21	1.23
Median (8 years).....	.84	.35	.35	.97	2.24	3.25	1.04
West Virginia:							
1921.....	1.50	.60	.74	1.40	3.20	9.30	2.09
1920.....	1.47	.59	.46	.54	1.13	3.12	1.14
Median (4 years).....	.47	.33	.34	.56	1.31	2.10	.67
North Carolina:							
1921.....	.69	.34	.69	2.46	5.33	6.14	1.77
1920.....	.71	.35	.27	.82	2.80	4.30	1.14
Median (1918-1920).....	.37	.32	.31	.84	2.84	4.36	1.04
South Carolina:							
1921.....	1.12	.41	.81	1.93	4.06	4.51	1.59
1920.....	.80	.44	.41	.63	2.96	3.66	1.14
Median (8 years).....	.59	.39	.38	1.13	2.41	2.74	.96
Florida:							
1921.....	.80	.35	.56	.62	1.28	1.22	.71
1920.....	.57	.20	.21	.39	.74	1.23	.49
Median (1918-1920).....	.37	.19	.19	.26	.75	1.07	.39
EAST SOUTH CENTRAL.							
Alabama:							
1921.....	.22	.14	.25	1.08	1.23	1.88	.55
1920.....	.29	.13	.18	.33	1.01	1.35	.41
Median (7 years).....	.21	.12	.18	.34	.77	.70	.30
Mississippi:							
1921.....	.68	.30	1.07	2.08	4.30	4.63	1.50
1920.....	.64	.29	.45	1.23	2.88	3.64	1.10
Median (7 years).....	.38	.23	.33	.70	1.11	1.43	.54
WEST SOUTH CENTRAL.							
Arkansas:							
1921.....	.51	.13	.27	.53	.51	1.07	.43
1920.....	.42	.18	.12	.37	1.27	1.69	.52
Median (4 years).....	.14	.07	.03	.12	.34	.96	.21
Louisiana:							
1921.....	.39	.19	.31	.21	.45	.82	.35
1920.....	.40	.18	.13	.19	.29	.33	.27
Median (7 years).....	.46	.28	.30	.41	.54	.51	.40
Oklahoma:							
1921.....	.47	.15	.10	.30	1.01	1.50	.48
1920.....	.47	.15	.10	.30	1.01	1.50	.48
Median (1913, 1915, 1917).....	.46	.21	.17	.29	.53	.94	.39

¹ Not available.

Diphtheria—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1913 to 1920, inclusive—Continued.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	September.	October.	10 months.
MOUNTAIN.							
Montana:							
1921.....	0.74	0.51	0.29	0.33	0.56	1.19	0.61
1920.....	.57	.42	.54	.17	.45	.56	.47
Median (7 years).....	.55	.44	.59	.36	.40	.62	.49
Idaho:							
1921.....	.27	.26	.21	.24	.75	.27	.31
1920.....	.17	.13	.14	.30	.91	.41	.27
Average (1913, 1920).....	.14	.11	.12	.21	.50	.21	.18
Wyoming:							
1921.....	.57	.53	.24	.24	1.13	1.01	.59
1920.....	.47	.14	.24	.06	.55	.49	.32
Median (8 years).....	.37	.13	.20	.07	.59	.46	.28
Colorado:							
1921.....	2.13	2.03	1.78	2.35	3.28	4.23	2.41
1920.....	.53	.64	.70	.80	1.88	1.96	.88
Median (6 years).....	.53	.61	.60	.53	.86	1.01	.64
New Mexico:							
1921.....	4.70	3.58	2.89	1.87	3.15	4.30	3.70
1920.....	1.19	2.15	2.15	1.23	1.49	3.84	1.88
Median ¹							
Arizona:							
1921.....	.33	.16	.07	.17	.17	1.53	.34
1920.....	.35	.18	.07	.11	.21	.53	.25
Median (4 years).....	.16	.13	.12	.08	.08	.20	.14
PACIFIC.							
Washington:							
1921.....	1.01	.74	.66	.46	.94	1.68	.90
1920.....	1.01	.76	.49	.64	.64	1.48	.86
Median (8 years).....	.50	.39	.32	.30	.36	.40	.41
Oregon:							
1921.....	1.69	.83	1.99	1.20	1.81	3.03	1.56
1920.....	.47	.38	.20	.20	.52	1.44	.49
Median (8 years).....	.37	.36	.21	.24	.29	.43	.33
California:							
1921.....	1.99	2.06	1.33	1.98	1.76	3.50	2.07
1920.....	1.93	1.48	.91	.72	1.40	1.63	1.49
Median (8 years).....	1.08	.91	.67	.64	.65	1.22	.92
Above States combined:							
1921.....	2.02	1.40	.99	1.34	2.36	4.09	1.90
1920.....	1.50	1.09	.86	.85	1.41	2.69	1.33
Median.....	1.31	1.02	.83	.83	1.28	2.08	1.20

¹ Not available.

SCARLET FEVER IN THE UNITED STATES.

The accompanying table shows the number of reported cases of scarlet fever per 1,000 population by quarters, from January to June, and by months, from July to October, 1921, compared with the same periods during 1920, and the medians for 1913 to 1920, inclusive.

The median was ascertained by arraying the figures so that the greatest number was first, the next smaller number was second, and so on to the smallest number, which was placed last. The middle number of the array was then selected as the median. Data were not available for all the States for the full eight years. As many years as possible were included for each State, but no year earlier than 1913 was used. The first column shows the number of years for which figures were obtained for each State.

The estimated populations on which the rates were computed are as follows:

	Number of States.	Estimated population.
1921.....	41	90,807,540
1920.....	40	87,602,619
Median, 1913-1920.....	39	85,489,347

For comparison the death rates per 100,000 population in the registration area for deaths are shown in the following table:

Scarlet fever death rates per 100,000 population in registration area for deaths, 1913-1920, inclusive.

1920.....	4.6	1915.....	3.6
1919.....	2.8	1914.....	6.6
1918.....	3.1	1913.....	8.7
1917.....	4.2	Median.....	3.9
1916.....	3.3		

Scarlet fever—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1913 to 1920, inclusive.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	September.	October.	10 months.
NEW ENGLAND.							
Maine:							
1921.....	1.83	1.26	1.15	0.96	0.87	1.82	1.41
1920.....	2.05	1.33	1.05	.31	.58	.98	1.31
Median (5 years).....	.42	.48	.47	.55	.58	.20	.45
Vermont:							
1921.....	3.82	3.00	1.74	1.67	4.77	5.46	3.41
1920.....	2.33	1.51	.78	1.01	.99	2.45	1.68
Median (7 years).....	1.69	1.45	.78	.71	.61	1.26	1.28
Massachusetts:							
1921.....	3.65	2.20	.77	.71	.85	1.32	2.12
1920.....	4.14	3.39	1.04	.66	.89	1.68	2.69
Median (8 years).....	2.81	2.18	.83	.66	.88	1.58	1.89
Rhode Island:							
1921.....	2.16	1.73	.80	.25	.86	.80	1.44
1920.....	2.29	1.31	.63	.36	1.03	.93	1.37
Median (6 years).....	1.71	1.41	.65	.39	.69	.96	1.21
Connecticut:							
1921.....	5.26	2.43	1.11	.68	.84	1.54	2.72
1920.....	3.57	2.83	1.08	.90	1.12	2.40	2.47
Median (8 years).....	1.93	1.62	.57	.41	.61	1.12	1.33
MIDDLE ATLANTIC.							
New York:							
1921.....	4.30	2.54	.67	.53	.80	1.44	2.39
1920.....	1.75	1.50	.63	.44	.56	1.12	1.25
Median (8 years).....	1.98	1.81	.67	.39	.55	.88	1.39
New Jersey:							
1921.....	4.67	3.18	.81	.66	.89	1.70	2.76
1920.....	1.89	1.48	.50	.40	.65	1.23	1.29
Median (8 years).....	2.17	1.94	.62	.42	.61	1.07	1.50
Pennsylvania:							
1921.....	4.93	2.35	.73	.83	1.28	2.20	2.69
1920.....	2.80	2.17	.83	.60	1.19	2.71	2.02
Median (8 years).....	1.59	1.22	.56	.53	.83	1.43	1.18
EAST NORTH CENTRAL.							
Ohio:							
1921.....	3.27	1.76	.59	.99	1.54	3.21	2.15
1920.....	4.00	2.95	.95	.84	1.12	2.71	2.65
Median (7 years).....	2.28	1.44	.55	.51	.95	1.77	1.49
Indiana:							
1921.....	4.81	2.51	.55	.45	1.31	2.32	2.06
1920.....	3.23	2.71	.88	.65	.80	2.30	2.25
Median (8 years).....	2.37	1.35	.44	.42	.85	1.63	1.45

Scarlet fever—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1918 to 1920, inclusive—Continued.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	Septem- ber.	October.	10 months.
EAST NORTH CENTRAL—contd.							
Illinois:							
1921.....	4.64	2.52	0.60	0.70	1.54	2.87	2.72
1920.....	4.30	2.47	.72	.46	1.16	2.52	2.52
Median (6 years).....	3.13	1.91	.64	.47	.69	1.13	1.80
Michigan:							
1921.....	4.59	2.30	.82	1.00	1.79	2.87	2.72
1920.....	2.99	2.79	1.31	1.21	1.69	2.86	2.44
Median (8 years).....	2.20	1.72	.65	.63	.79	1.16	1.50
Wisconsin:							
1921.....	4.63	2.72	.71	.82	1.46	3.40	2.84
1920.....	2.60	2.26	1.18	1.03	1.45	2.12	2.04
Median (8 years).....	1.99	1.59	.86	.56	.78	1.35	1.43
WEST NORTH CENTRAL.							
Minnesota:							
1921.....	3.50	2.38	.78	1.05	1.48	2.92	2.39
1920.....	1.56	1.36	.70	.55	.74	1.34	1.21
Median (8 years).....	2.28	1.89	.70	.58	.70	1.16	1.56
Iowa:							
1921.....	2.63	1.30	.24	.44	.88	2.61	1.59
1920.....	1.21	.95	.41	.39	.74	1.62	.96
Median (7 years).....	.83	.71	.15	.15	.21	.56	.57
North Dakota:							
1921.....	2.27	1.05	.48	.80	1.23	1.74	1.42
1920.....	4.74	1.21	.72	.76	.35	.48	2.02
Median (4 years).....	2.38	1.21	.37	.79	.28	.56	1.24
South Dakota:							
1921.....	3.31	1.61	.30	.67	1.08	2.57	1.94
1920.....	5.77	3.83	1.03	1.01	.64	1.80	3.33
Median (6 years).....	1.89	1.46	.46	.33	.52	1.19	1.26
Nebraska:							
1921.....	2.47	1.87	.79	.47	.80	2.05	1.71
1920.....	2.79	1.47	.10	.15	.53	1.14	1.47
Median (1918-1920).....	1.65	1.07	.10	.15	.36	.69	.94
Kansas:							
1921.....	4.22	1.75	1.15	1.72	2.86	7.11	3.08
1920.....	2.90	1.24	.74	1.43	2.30	6.27	2.32
Median (8 years).....	1.55	1.24	.34	.35	.50	1.36	1.18
SOUTH ATLANTIC.							
Delaware:							
1921.....	3.13	3.15	.95	.37	1.33	2.23	2.37
1920.....	1.09	1.75	.37	.80	.64	1.61	1.19
Maryland:							
1921.....	2.57	1.21	.37	.58	1.08	2.17	1.56
1920.....	3.21	1.57	.35	.51	1.04	1.62	1.78
Median (6 years).....	2.57	1.51	.56	.41	.72	1.23	1.46
District of Columbia:							
1921.....	3.74	1.51	.26	.16	.45	1.03	1.76
1920.....	2.15	2.10	.62	.51	.60	1.84	1.63
Median (8 years).....	2.14	1.62	.44	.29	.61	1.11	1.37
Virginia:							
1921.....	1.42	.71	.50	1.44	1.18	2.46	1.20
1920.....	1.00	.46	.38	.39	.66	1.63	.74
Median (7 years).....	.72	.42	.19	.35	.68	1.38	.60
West Virginia:							
1921.....	1.91	1.01	.59	.93	1.74	3.34	1.51
1920.....	1.77	.98	.87	.59	1.01	2.41	1.31
Median (4 years).....	.57	.61	.41	.41	.76	1.49	.66
North Carolina:							
1921.....	.40	.33	.42	1.07	1.61	2.64	.79
1920.....	.61	.38	.19	.39	.80	1.39	.58
Median (1918-1920).....	.26	.18	.21	.51	.81	1.41	.43
South Carolina:							
1921.....	.07	.04	.08	.11	.20	.48	.12
1920.....	.08	.09	.02	.04	.12	.14	.08
Median (8 years).....	.09	.05	.07	.06	.15	.20	.09
Florida:							
1921.....	.33	.07	.06	.13	.13	.13	.17
1920.....	.13	.07	.02	.07	.13	.26	.12
Median (1918-1920).....	.16	.08	.05	.09	.10	.21	.12

¹ Not available.

Scarlet fever—Annual case rates per 1,000 population, January to October, 1921 and 1920, and medians for the years 1913 to 1920, inclusive—Continued.

Geographic division and State.	January, February, March.	April, May, June.	July.	August.	Septem- ber.	October.	10 months.
EAST SOUTH CENTRAL.							
Alabama:							
1921.....	0.18	0.14	0.19	0.40	0.35	0.87	0.28
1920.....	.30	.24	.25	.16	.42	.45	.29
Median (7 years).....	.19	.12	.12	.25	.40	.59	.23
Mississippi:							
1921.....	.48	.22	.35	.60	.91	1.35	.53
1920.....	.74	.35	.30	.88	1.76	1.88	.82
Median (7 years).....	.25	.23	.17	.33	.38	.66	.30
WEST SOUTH CENTRAL.							
Arkansas:							
1921.....	.48	.17	.19	.17	.23	.44	.30
1920.....	.34	.21	.22	.29	.53	.78	.35
Median (4 years).....	.22	.09	.12	.16	.29	.48	.20
Louisiana:							
1921.....	.26	.12	.04	.09	.11	.43	.18
1920.....	.25	.11	.08	.15	.13	.26	.17
Median (7 years).....	.10	.09	.03	.07	.12	.21	.10
Oklahoma:							
1921.....	.25	.16	.14	.26	.27	.49	.24
1920.....	.25	.16	.14	.26	.27	.49	.24
Median (1913, 1915, 1917).....	.86	.31	.23	.31	.60	.74	.54
MOUNTAIN.							
Montana:							
1921.....	1.54	.69	.27	.15	.52	.94	.86
1920.....	2.54	1.42	.52	.84	.62	2.41	1.63
Median (7 years).....	2.40	2.07	1.19	.93	.95	2.07	1.86
Idaho:							
1921.....	1.05	3.30	.51	.24	.35	1.66	1.58
1920.....	2.04	.93	.71	.08	.22	.38	1.03
Average (1913, 1920).....	1.45	.73	.50	.03	.12	.21	.74
Wyoming:							
1921.....	3.21	1.19	.30	.24	.65	1.01	1.54
1920.....	.77	1.16	1.71	.37	.91	1.28	1.01
Median (8 years).....	1.10	1.10	.33	.46	.66	.99	.90
Colorado:							
1921.....	1.64	1.87	.37	.39	.72	1.78	1.38
1920.....	1.23	1.36	.42	.25	.58	1.13	1.01
Median (6 years).....	1.64	1.32	.54	.29	.39	.80	1.09
New Mexico:							
1921.....	1.38	.95	.33	.23	.49	.85	.89
1920.....	1.76	1.01	.36	.27	.43	1.03	1.04
Median ¹							
Arizona:							
1921.....	.78	.55	.14	.10	.00	.85	.51
1920.....	.69	.67	.04	.11	.28	.60	.51
Median (4 years).....	.48	.24	.00	.04	.20	.04	.24
PACIFIC.							
Washington:							
1921.....	2.07	1.18	.47	.53	1.17	1.41	1.33
1920.....	2.61	1.80	.61	.28	.76	1.26	1.62
Median (8 years).....	1.03	.71	.33	.31	.48	.60	.71
Oregon:							
1921.....	1.23	.53	.30	.24	.52	1.17	.75
1920.....	1.88	.85	.30	.33	.52	1.16	1.05
Median (8 years).....	.92	.98	.62	.37	.45	.62	.78
California:							
1921.....	1.89	1.51	.64	.65	.79	1.29	1.36
1920.....	1.65	.89	.46	.44	.78	1.29	1.06
Median (8 years).....	1.36	.90	.53	.46	.63	1.23	.97
Above States combined:							
1921.....	3.14	1.77	.59	.69	1.10	2.03	1.92
1920.....	2.35	1.69	.66	.56	.90	1.32	1.61
Median.....	1.67	1.23	.49	.42	.63	1.10	1.13

¹ Not available.

MORTALITY FROM ORGANIC DISEASES OF THE HEART, 1920.

The Bureau of the Census, Department of Commerce, states that 124,000 deaths were due to organic diseases of the heart in the death registration area of the United States in 1920, and that if the rest of the United States had as many deaths from this cause in proportion to the population, the total number of deaths from organic diseases of the heart in the entire United States for 1920 was 151,000, whereas for 1919 the number is estimated at 138,000, or 13,000 less than for 1920.

The trend of the death rate from organic diseases of the heart is upward, the lowest recorded rate for the registration area having been 111.2 per 100,000 population for the year 1900, and the highest rate 153.8 per 100,000 population for the year 1917. For 1920 the rate was 141.9 as against 131 per 100,000 population for 1919.

"Adjusted" rates based on the standard million population have been calculated in order to permit better interstate comparisons for the year 1920. The highest adjusted rate from organic diseases of the heart for 1920 is 180.8 per 100,000 for the State of New York, and the lowest is 87.3 for Kentucky.

For States in which at least 10 per cent of the population was colored, adjusted rates have been calculated separately for the white and colored populations. In this group of States the highest adjusted rate for the white population is 179.8 per 100,000 for New York, and the highest rate for the colored population is 248.3 per 100,000 for the same State; the lowest adjusted rate for the white population is 75 for Mississippi and the lowest for the colored population is 112 for Florida.

Deaths and death rates from organic diseases of the heart in the registration area (exclusive of Hawaii), and in the registration States, 1916-1920.

Area.	Number of deaths.			Ad-justed rate, 1920.	Rate per 100,000 population.				
	1920	1919	1918		1920	1919	1918	1917	1916
Registration area.....	124, 143	111, 579	124, 668	(1)	141.9	131.0	153.3	153.8	150.6
Registration States (1916) 2.....	103, 761	94, 243	107, 500	(1)	147.6	136.0	157.3	155.5	150.7
California.....	6, 346	5, 999	6, 159	143.9	182.3	177.9	188.7	178.9	181.6
Colorado.....	994	832	991	106.8	105.0	80.2	106.0	91.7	86.5
Connecticut.....	2, 084	1, 868	2, 178	138.8	149.5	136.7	162.4	171.9	169.8
Delaware.....	368	317	(3)	140.6	164.2	142.8	(2)	(2)	(2)
Florida (total).....	954	817	(3)	101.6	97.4	85.3	(2)	(2)	(2)
White.....	651	512		94.3	100.4	81.5			
Colored.....	303	305		112.0	91.4	92.6			
Illinois.....	9, 505	8, 542	9, 500	141.3	145.6	132.6	149.5	(2)	(2)
Indiana.....	4, 350	4, 024	4, 777	116.5	147.8	137.9	165.0	159.0	150.9
Kansas.....	2, 021	1, 652	1, 993	93.0	114.0	93.6	113.4	119.9	115.9
Kentucky (total).....	2, 122	2, 059	2, 369	87.3	87.6	85.4	98.8	109.1	93.5
White.....	1, 682	1, 607	1, 800	77.5	77.3	74.0	83.4	94.1	83.3
Colored.....	430	452	569	166.6	183.2	190.4	237.0	241.4	182.1
Louisiana (total).....	1, 941	1, 886	2, 121	136.3	107.6	105.3	119.4	(2)	(2)
White.....	1, 017	936	1, 020	118.5	92.1	86.0	95.1		
Colored.....	924	950	1, 101	104.4	131.8	135.2	156.4		
Maine.....	1, 430	1, 330	1, 454	114.7	185.9	173.5	190.3	194.4	194.9
Maryland (total).....	2, 407	2, 233	2, 820	153.7	165.1	154.9	197.8	184.2	159.1
White.....	1, 870	1, 690	2, 121	138.8	154.3	141.1	179.3	167.4	145.1
Colored.....	537	543	699	234.1	218.7	222.3	287.6	265.1	226.2
Massachusetts.....	7, 569	6, 926	8, 167	168.5	195.2	181.0	216.2	205.5	197.7
Michigan.....	5, 906	5, 045	5, 576	145.9	159.1	139.2	157.7	162.7	156.0
Minnesota.....	2, 732	2, 468	2, 661	110.1	113.7	104.1	113.8	104.5	106.2
Mississippi (total).....	1, 527	1, 222	(3)	101.8	85.3	68.2	(2)	(2)	(2)
White.....	566	472		75.0	66.0	55.5			
Colored.....	961	750		129.1	103.0	79.7			
Missouri.....	4, 057	3, 408	3, 983	103.9	119.0	100.3	117.6	112.2	109.7
Montana.....	428	448	477	97.4	76.7	83.0	91.3	94.6	96.4
Nebraska.....	1, 207	(2)	(2)	87.6	92.7	(2)	(2)	(2)	(2)
New Hampshire.....	908	749	921	129.7	204.6	169.3	206.8	215.1	207.0
New Jersey.....	5, 081	4, 679	5, 414	164.1	159.4	149.8	176.9	170.2	167.5
New York (total).....	19, 961	18, 591	20, 680	180.8	191.0	180.1	203.0	202.3	199.5
White.....	19, 575	18, 128	20, 227	179.8	191.3	179.3	202.6	201.8	198.7
Colored.....	386	463	453	248.3	178.2	220.7	225.4	225.4	241.0
North Carolina (total).....	2, 403	2, 061	2, 448	113.9	93.2	81.1	97.7	97.2	91.0
White.....	1, 548	1, 274	1, 526	100.0	86.1	72.0	87.7	87.9	82.7
Colored.....	1, 855	787	922	150.5	109.8	102.0	120.6	118.2	109.6
Ohio.....	8, 335	7, 694	8, 596	122.9	143.4	134.8	153.3	159.7	155.0
Oregon.....	1, 139	1, 000	982	121.8	144.3	128.6	128.1	(2)	(2)
Pennsylvania (total).....	12, 406	11, 500	13, 832	141.6	141.4	132.7	161.9	155.3	148.2
White.....	11, 898	10, 980	13, 238	139.1	140.3	131.0	159.8	153.3	146.3
Colored.....	508	520	614	233.6	174.0	194.0	224.6	232.8	207.2
Rhode Island.....	975	900	1, 048	145.9	160.5	149.7	176.2	172.0	178.5
South Carolina (total).....	1, 641	1, 343	1, 541	132.9	97.0	80.2	93.0	95.2	84.6
White.....	763	575	670	116.5	92.4	70.9	84.1	87.1	74.6
Colored.....	878	768	871	150.9	101.3	88.9	101.2	102.5	93.6
Tennessee (total).....	2, 018	1, 925	2, 119	91.8	86.0	82.6	91.6	97.1	(3)
White.....	1, 375	1, 333	1, 423	76.4	72.6	71.0	76.5	81.7	
Colored.....	643	592	696	156.1	142.6	130.7	152.9	158.9	
Utah.....	484	391	471	126.4	106.8	87.8	107.6	105.9	99.8
Vermont.....	805	727	783	141.8	228.5	206.2	221.8	222.7	225.6
Virginia (total).....	2, 896	2, 577	3, 061	134.0	124.7	112.2	134.8	136.3	135.3
White.....	1, 786	1, 570	1, 829	112.9	109.6	97.7	115.6	112.6	113.4
Colored.....	1, 110	1, 007	1, 232	187.5	160.3	145.9	179.0	190.3	184.4
Washington.....	1, 584	1, 346	1, 408	113.8	115.8	100.0	106.4	92.9	96.6
Wisconsin.....	3, 053	2, 652	2, 725	101.5	115.3	101.3	105.4	115.9	117.8

¹ Rate not calculated.

² Including the District of Columbia.

³ Not admitted to registration area until a later date.

MORTALITY FROM TUBERCULOSIS, 1920.

The Bureau of the Census announces that nearly 100,000 deaths were due to tuberculosis in the death registration area of the United States in 1920, and if the rest of the United States had as many deaths from this cause in proportion to the population, the total number of deaths from tuberculosis in the entire United States for 1920 was about 122,000, whereas for 1919 the number is estimated as 132,000, or 10,000 more than for 1920.

The trend of the tuberculosis death rate is downward. In the registration area of the 33 States which show rates for more than one year, 29 in the following table show their lowest rates for the year 1920. The tuberculosis death rate in the registration area in 1920 was 114.2 per 100,000 population, against 125.6 per 100,000 population for the year 1919.

To permit better interstate comparisons for the year 1920, adjusted rates based on the standard million population have been calculated. The highest adjusted tuberculosis rate for 1920 is 215.7 per 100,000 population for the State of Colorado, and the lowest is 40.8 per 100,000 population for the adjoining State of Utah. The high rate for Colorado is evidence not of unhealthfulness of climate, but of the attractiveness of the Colorado climate to persons afflicted with tuberculosis.

For the States in which at least 10 per cent of the population was colored, adjusted rates have been calculated separately for the white and colored populations. In this group of States the highest adjusted tuberculosis rate for the white population is 137.6 per 100,000 for Kentucky, and the highest adjusted rate for the colored population is 354.9 per 100,000 population for the same State. The lowest adjusted tuberculosis rate for the white population is 54.2 for Mississippi, and the lowest for the colored population is 175.2 per 100,000 population for Florida.

Deaths and death rates from tuberculosis (all forms) in the registration area (exclusive of Hawaii) and in the registration States, 1916-1920.

Area.	Number of deaths.			Ad-justed rate, 1920.	Rate per 100,000 population.				
	1920	1919	1918		1920	1919	1918	1917	1916
Registration area.....	99,916	106,985	122,040	(¹)	114.3	125.6	150.0	147.1	142.1
Registration States (1916) ² ..	79,489	86,079	100,946	(¹)	113.1	124.2	147.7	142.9	139.6
California.....	5,555	5,910	6,094	147.6	159.6	175.3	186.7	177.2	174.6
Colorado.....	2,134	2,005	2,229	215.7	225.4	215.1	242.9	194.8	178.6
Connecticut.....	1,666	1,729	2,062	116.8	119.4	126.5	153.9	160.4	142.5
Delaware.....	327	363	(³)	142.5	148.0	163.6	(³)	(³)	(³)
Florida (total).....	1,021	1,003	(³)	106.4	104.1	104.8	(³)	(³)	(³)
White.....	435	471		67.7	67.1	74.9			
Colored.....	586	532		175.2	176.8	161.6			
Illinois.....	6,568	7,395	8,626	97.0	100.6	114.9	135.7	(³)	(³)
Indians.....	3,201	3,331	4,057	105.7	106.8	114.1	140.2	139.5	134.6
Iowa.....	855	894	1,050	47.4	48.2	50.6	56.8	59.8	57.3
Kansas.....	3,705	3,962	4,770	159.7	152.9	165.3	199.0	198.3	195.2
Kentucky (total).....	2,851	3,109	3,651	137.6	130.3	143.1	169.3	166.1	163.7
White.....	854	873	1,119	354.9	363.8	367.8	466.0	486.1	467.4
Colored.....	2,550	2,577	3,301	149.1	141.2	143.9	185.8	(³)	(³)
Louisiana (total).....	894	879	1,169	86.9	80.9	80.8	109.0		
White.....	1,656	1,698	2,132	244.0	236.2	241.7	302.9		
Colored.....	799	793	927	100.2	103.8	103.4	121.4	117.1	118.2
Maine.....	2,139	2,390	2,959	144.1	146.7	165.8	207.6	195.9	195.6
Maryland (total).....	1,337	1,549	1,930	106.5	110.4	129.4	163.1	150.8	148.6
White.....	802	841	1,029	325.3	326.6	344.2	423.4	413.6	420.8
Colored.....	4,412	4,901	6,005	110.0	113.8	128.0	159.0	145.9	149.2
Massachusetts.....	3,101	3,106	3,588	82.7	83.6	85.7	101.5	96.6	92.7
Michigan.....	2,151	2,246	2,446	88.2	89.5	94.7	104.6	102.1	104.8
Minnesota.....	2,287	2,436	(³)	138.6	127.8	136.0	(³)	(³)	(³)
Mississippi (total).....	410	488		54.2	47.8	57.3			
White.....	1,877	1,948		213.4	201.2	207.1			
Colored.....	3,644	3,984	4,891	102.5	106.9	117.2	144.4	149.2	143.0
Missouri.....	419	490	506	70.2	75.1	88.9	96.8	108.8	107.1
Montana.....	561	(³)	(³)	42.9	43.0	(³)	(³)	(³)	(³)
Nebraska.....	430	453	556	94.7	97.0	102.5	126.1	113.9	114.5
New Hampshire.....	3,635	3,978	4,817	110.7	114.0	127.4	157.4	154.3	151.1
New Jersey.....	12,634	14,538	17,113	114.5	120.9	140.9	167.9	166.3	160.6
New York (total).....	11,848	13,582	16,149	109.6	115.8	134.4	161.8	161.1	155.4
White.....	786	966	964	352.3	362.8	455.7	475.0	429.4	422.2
Colored.....	3,004	3,110	3,475	131.8	116.5	122.4	138.7	137.8	147.1
North Carolina (total).....	1,491	1,521	1,649	93.8	82.8	86.0	94.7	94.2	101.5
White.....	1,513	1,589	1,826	220.2	194.2	205.9	238.8	236.4	249.4
Colored.....	5,975	6,539	7,634	99.1	102.8	114.6	136.2	134.8	126.4
Ohio.....	703	704	675	86.2	89.1	90.6	88.1	(³)	(³)
Oregon.....	9,213	10,327	12,968	104.0	105.0	119.1	151.6	138.6	133.0
Pennsylvania (total).....	8,267	9,334	11,746	96.7	97.5	111.4	141.8	129.1	125.4
White.....	946	993	1,222	312.1	324.1	351.3	447.0	438.0	373.5
Colored.....	798	885	1,080	127.5	131.3	148.8	181.5	172.9	175.9
Rhode Island.....	2,031	2,271	2,395	135.6	120.0	135.6	144.5	144.8	146.1
South Carolina (total).....	540	552	541	73.2	65.5	68.0	67.9	70.0	67.0
White.....	1,491	1,719	1,854	197.2	172.0	199.0	215.4	213.0	217.2
Colored.....	3,860	3,938	4,786	175.2	164.6	169.0	206.8	199.1	(³)
Tennessee (total).....	2,451	2,376	2,817	129.3	129.3	126.6	151.5	155.6	
White.....	1,409	1,562	1,969	315.5	312.6	344.9	432.5	374.5	
Colored.....	177	200	209	40.8	39.1	44.8	47.8	44.6	50.7
Utah.....	288	321	369	77.7	81.8	91.1	104.4	93.4	110.8
Vermont.....	3,319	3,445	4,170	151.9	142.9	150.1	183.6	169.8	174.9
Virginia (total).....	1,545	1,567	1,996	100.6	94.8	97.5	126.1	109.2	118.4
White.....	1,774	1,878	2,174	270.0	256.2	272.0	315.9	307.6	301.7
Colored.....	1,346	1,385	1,371	95.6	98.4	103.0	100.2	97.5	
Washington.....	2,267	2,202	2,440	85.1	85.6	84.1	94.4	97.3	92.1

¹ Rate not calculated.

² Including the District of Columbia.

³ Not admitted to registration area until a later date.

PRINCIPAL CAUSES OF DEATH COMPARED.

DEATH RATES FOR PRINCIPAL CAUSES, OCTOBER AND NOVEMBER, 1921, IN A GROUP OF INSURED PERSONS.

The accompanying table is taken from the Statistical Bulletin of the Metropolitan Life Insurance Co. for December, 1921. It presents the mortality data of the industrial department of the company for October and November, 1921, and November and year, 1920.

The figures are based on a strength of approximately 13,400,000 insured persons.

Death rates (annual basis) per 100,000 lives exposed, for principal causes, October and November, 1921, and November and year, 1920.

[Industrial Department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.			
	November, 1921.	October, 1921.	November, 1920.	Year 1920.
Total, all causes.....	836.7	770.8	848.6	989.4
Typhoid fever.....	8.7	8.4	9.4	6.7
Measles.....	.6	.3	2.2	8.5
Scarlet fever.....	5.5	3.4	7.1	6.0
Whooping cough.....	1.6	1.3	2.7	6.6
Diphtheria.....	30.7	27.4	31.7	22.1
Influenza.....	5.2	3.6	5.7	53.5
Tuberculosis (all forms).....	95.3	95.3	114.4	137.9
Cancer.....	70.1	69.5	70.6	69.8
Meningitis (all forms).....	5.3	4.0	4.2	5.2
Cerebral hemorrhage.....	62.6	52.7	57.2	61.3
Organic diseases of heart.....	118.4	107.8	105.9	117.0
Pneumonia (all forms).....	61.1	39.4	54.1	106.1
Other respiratory diseases.....	15.1	11.8	15.2	18.2
Diarrhea and enteritis.....	13.2	14.7	14.9	15.8
Bright's disease.....	69.1	62.2	65.7	70.8
Puerperal state.....	16.3	14.1	15.5	23.0
Suicides.....	5.9	8.4	6.1	6.1
Homicides.....	6.3	6.6	5.3	5.8
Other external causes (excluding suicides and homicides).....	51.4	49.9	61.4	60.1
Traumatism by automobile.....	13.6	13.8	15.1	11.1
All other causes.....	194.1	190.0	199.2	188.9

DEATHS DURING WEEK ENDED DEC. 31, 1921.

Summary of information received by telegraph from industrial insurance companies for week ended Dec. 31, 1921, and corresponding week, 1920. (From the Weekly Health Index, Jan. 3, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Dec. 31, 1921.	Correspondin: week, 1920.
Policies in force.....	47, 852, 588	45, 019, 068
Number of death claims.....	9, 648	7, 093
Death claims per 1,000 policies in force, annual rate.....	10.5	8.2

Deaths from all causes in certain large cities of the United States during the week ended Dec. 31, 1921, infant mortality, annual death rate, and comparison with corresponding week of preceding years. (From the Weekly Health Index, Jan. 3, 1922, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population July 1, 1921.	Week ended Dec. 31, 1921.		Average annual death rate per 1,000. ³	Deaths under 1 year.		Infant mortality rate, week ended Dec. 31, 1921. ³
		Total deaths.	Death rate. ¹		Week ended Dec. 31, 1921.	Previous year or years. ²	
Akron, Ohio.....	229,185	34	7.7	10.8	2	'3	19
Albany, N. Y.....	115,071	39	17.7	C 15.6	1	C	22
Atlanta, Ga.....	207,473	73	18.3	C 14.1	8	C	1
Baltimore, Md.....	750,964	201	14.0	A 17.8	21	A	59
Birmingham, Ala.....	186,133	58	16.2	A 20.8	7	A	25
Boston, Mass.....	757,634	214	14.7	A 17.2	27	A	73
Bridgeport, Conn.....	149,967	36	12.5	A 18.0	5	A	63
Buffalo, N. Y.....	519,608	113	11.3	C 14.1	21	C	81
Cambridge, Mass.....	110,444	32	15.1	A 14.6	3	A	54
Camden, N. J.....	119,672	32	13.9	.....	4	.....	60
Chicago, Ill.....	2,780,655	575	10.8	A 14.4	83	A	119
Cincinnati, Ohio.....	408,418	121	15.6	C 11.9	12	C	70
Cleveland, Ohio.....	831,138	155	9.7	C 10.8	30	C	89
Columbus, Ohio.....	245,358	68	14.5	C 13.5	7	C	81
Dallas, Tex.....	165,282	43	13.6	A 17.5	11	A	6
Dayton, Ohio.....	158,119	35	11.5	C 10.1	5	C	82
Denver, Colo.....	263,152	71	14.1	A 17.4	7	A	.....
Detroit, Mich.....	1,070,450	188	9.2	C 8.5	30	C	57
Fall River, Mass.....	120,668	32	13.8	C 12.1	9	C	135
Fort Worth, Tex.....	111,423	23	10.8	.....	2	.....	.....
Grand Rapids, Mich.....	141,197	30	11.1	C 9.8	5	C	85
Houston, Tex.....	144,340	27	9.8	C 15.6	2	C	4
Indianapolis, Ind.....	325,632	92	14.7	C 12.6	10	C	13
Jersey City, N. J.....	302,788	60	10.3	C 10.4	12	C	78
Kansas City, Kans.....	103,884	32	16.1	C 12.8	3	C	5
Kansas City, Mo.....	336,157	136	21.1	C 11.9	25	C	72
Los Angeles, Calif.....	614,160	191	16.2	A 14.8	23	A	109
Louisville, Ky.....	236,083	59	13.0	C 16.6	4	C	46
Lowell, Mass.....	113,757	26	11.9	A 15.7	2	A	32
Memphis, Tenn.....	165,656	51	16.1	.....	4	.....	.....
Milwaukee, Wis.....	468,396	81	9.0	A 12.2	12	A	58
Minneapolis, Minn.....	392,815	85	11.3	C 10.3	16	C	21
Nashville, Tenn.....	122,036	52	22.2	C 13.2	4	C	10
New Bedford, Mass.....	125,012	25	10.4	A 17.1	4	A	6
New Haven, Conn.....	167,007	47	14.7	C 11.1	5	C	3
New Orleans, La.....	394,657	133	17.6	A 21.9	21	A	16
New York, N. Y.....	5,751,867	1,364	12.4	C 11.1	175	C	69
Newark, N. J.....	424,885	90	11.0	C 11.6	13	C	16
Norfolk, Va.....	121,260	27	11.6	.....	4	.....	71
Oakland, Calif.....	226,472	74	17.0	A 12.9	3	A	5
Omaha, Nebr.....	197,066	46	12.2	.....	9	.....	104
Pateron, N. J.....	137,463	27	10.2	.....	1	.....	17
Philadelphia, Pa.....	1,866,212	503	14.1	'22.1	70	'71	84
Pittsburgh, Pa.....	602,452	180	15.6	C 12.9	39	C	19
Portland, Oreg.....	264,899	73	14.8	C 9.6	8	C	138
Providence, R. I.....	239,045	78	17.0	C 14.2	7	C	5
Richmond, Va.....	175,686	49	14.5	C 13.6	6	C	11
Rochester, N. Y.....	306,229	69	11.8	C 12.2	7	C	3
St. Louis, Mo.....	786,164	206	13.7	C 12.5	10	C	9
St. Paul, Minn.....	237,781	40	8.8	C 11.1	5	C	23
Salt Lake City, Utah.....	121,595	23	9.9	A 16.3	6	A	4
San Francisco, Calif.....	520,546	178	17.8	C 12.4	8	C	50
Seattle, Wash.....	327,227	64	10.2	A 9.9	6	A	8
Spokane, Wash.....	104,442	29	14.5	C 10.0	5	C	5
Springfield, Mass.....	135,877	38	14.6	C 9.1	5	C	2
Syracuse, N. Y.....	177,265	56	16.5	C 14.7	6	C	10
Toledo, Ohio.....	253,696	60	12.3	A 14.7	6	A	72
Trenton, N. J.....	122,760	32	13.6	A 20.1	1	A	10
Washington, D. C.....	454,026	153	17.6	A 18.7	14	A	6
Wilmington, Del.....	113,408	28	12.9	C 12.7	1	C	13
Worcester, Mass.....	184,972	57	16.1	C 11.2	7	C	5
Yonkers, N. Y.....	103,324	26	13.1	A 17.2	3	A	75
Youngstown, Ohio.....	139,432	28	10.5	C 11.6	8	C	68

¹ Annual rate per 1,000 population.

² "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1920.

³ Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1920. Cities left blank are not in the registration area for births.

⁴ Data based on statistics of 1915, 1916, and 1917.

SUMMARY OF DEATHS IN 62 CITIES, 1921.

Deaths from all causes, death rate, and infant mortality in 62 large cities of the United States for 1921, and comparison with 1920.

(Furnished by the Bureau of the Census, Department of Commerce.)

City. ¹	Popula- tion. ²	Total deaths.	Death rate. ³	Deaths under 1 year.	Pro- visional infant mor- tal- ity rate 1921. ⁴	Infant mor- tal- ity rate 1920. ⁵	Mortality data for calendar year 1920.		
							Total deaths.	Death rate.	Deaths under 1 year.
Total.....	27, 433, 479	327, 550	12.0	48, 067	.....	.....	372, 629	13.8	56, 818
Akron, Ohio.....	229, 195	1, 619	7.1	336	68	84	2, 443	11.3	452
Albany, N. Y.....	115, 071	1, 743	15.2	179	77	77	1, 785	15.7	176
Atlanta, Ga.....	207, 473	3, 053	14.8	394	.....	.....	3, 485	17.2	475
Baltimore, Md.....	750, 864	10, 351	13.8	1, 598	87	106	11, 356	15.4	1, 961
Birmingham, Ala.....	188, 133	2, 702	14.6	427	.....	.....	2, 982	16.5	484
Boston, Mass.....	757, 634	10, 095	13.4	1, 453	76	101	11, 604	15.4	1, 966
Bridgeport, Conn.....	149, 967	1, 453	9.7	266	64	92	1, 872	12.8	384
Buffalo, N. Y.....	519, 608	6, 199	12.0	1, 212	92	103	7, 475	14.6	1, 371
Cambridge, Mass.....	110, 444	1, 386	12.6	192	67	96	1, 636	14.9	274
Camden, N. J.....	119, 672	1, 496	12.6	294	86	.....	1, 731	14.7	364
Chicago, Ill.....	2, 780, 655	30, 763	11.1	5, 061	.....	.....	34, 848	12.8	5, 675
Cincinnati, Ohio.....	403, 418	5, 691	14.1	602	77	82	6, 073	15.1	644
Cleveland, Ohio.....	831, 138	8, 681	10.5	1, 463	73	87	9, 985	12.4	1, 692
Columbus, Ohio.....	245, 358	3, 158	12.9	360	73	96	3, 546	14.8	453
Dallas, Tex.....	166, 282	1, 939	11.8	287	.....	.....	2, 166	13.4	294
Dayton, Ohio.....	158, 119	1, 707	10.8	237	77	85	1, 833	12.2	275
Denver, Colo.....	263, 152	3, 696	14.1	392	.....	.....	4, 484	17.3	463
Detroit, Mich.....	1, 070, 450	10, 356	9.7	2, 303	85	104	13, 700	13.4	2, 885
Fall River, Mass.....	120, 668	1, 728	14.4	413	111	129	1, 772	14.7	458
Grand Rapids, Mich.....	141, 197	1, 537	10.9	231	74	99	1, 826	13.2	310
Houston, Tex.....	144, 340	1, 670	11.6	203	.....	.....	1, 944	13.9	234
Indianapolis, Ind.....	325, 632	4, 065	12.6	523	77	91	4, 636	14.6	623
Jersey City, N. J.....	302, 788	3, 727	12.3	673	82	.....	4, 221	14.1	758
Kansas City, Kans.....	103, 884	1, 321	12.8	172	76	108	1, 478	14.5	243
Kansas City, Mo.....	336, 157	4, 620	13.8	626	.....	.....	5, 279	16.1	765
Los Angeles, Calif.....	614, 160	8, 513	13.9	832	66	71	8, 274	14.1	830
Louisville, Ky.....	236, 083	3, 419	14.5	335	70	86	3, 582	15.2	409
Lowell, Mass.....	113, 787	1, 454	12.8	279	90	135	1, 771	15.7	425
Memphis, Tenn.....	165, 656	2, 645	16.0	316	.....	.....	3, 255	19.9	403
Milwaukee, Wis.....	468, 386	4, 535	9.7	870	82	94	5, 415	11.7	990
Minneapolis, Minn.....	392, 815	4, 288	10.9	524	55	65	4, 713	12.3	600
Nashville, Tenn.....	122, 036	1, 980	16.3	231	.....	.....	2, 147	18.1	294
New Bedford, Mass.....	125, 012	1, 379	11.1	347	99	122	1, 745	14.2	429
New Haven, Conn.....	167, 007	1, 937	11.6	252	59	87	2, 375	14.5	368
New Orleans, La.....	394, 657	6, 444	16.4	811	.....	.....	6, 869	17.6	785
New York, N. Y.....	5, 751, 867	64, 067	11.2	9, 528	71	85	73, 393	13.0	11, 319
Newark, N. J.....	424, 885	4, 746	11.2	836	71	.....	5, 372	12.9	993
Norfolk, Va.....	121, 260	1, 441	11.9	241	82	100	1, 782	15.2	285
Oakland, Calif.....	226, 472	2, 363	10.5	206	50	71	2, 585	11.8	293
Omaha, Nebr.....	197, 066	2, 581	13.1	345	51	92	2, 771	14.3	415
Paterson, N. J.....	137, 463	1, 706	12.4	249	74	.....	1, 746	12.8	249
Philadelphia, Pa.....	1, 866, 212	23, 623	12.7	3, 346	76	91	26, 511	14.4	3, 956
Pittsburgh, Pa.....	602, 452	8, 335	13.9	1, 443	89	111	9, 678	16.4	1, 641
Portland, Ore.....	264, 859	2, 858	10.8	250	47	60	3, 164	12.1	310
Providence, R. I.....	239, 645	3, 143	13.2	547	83	.....	3, 692	15.5	586
Richmond, Va.....	175, 686	2, 548	14.5	433	101	114	2, 847	16.5	479
Rochester, N. Y.....	305, 229	3, 456	11.4	530	78	84	3, 765	12.6	567
St. Louis, Mo.....	786, 164	9, 414	12.0	886	.....	.....	10, 931	14.1	1, 153
St. Paul, Minn.....	237, 781	2, 496	10.5	260	47	73	2, 958	12.5	378
Salt Lake City, Utah.....	121, 595	1, 480	12.2	251	72	72	1, 704	14.3	241
San Francisco, Calif.....	520, 546	7, 019	13.5	429	48	62	7, 259	14.2	558
Seattle, Wash.....	327, 227	2, 843	8.7	291	47	57	3, 401	10.7	349
Spokane, Wash.....	104, 442	1, 319	12.7	129	53	71	1, 481	14.2	174
Springfield, Mass.....	135, 877	1, 521	11.2	238	68	85	1, 709	13.0	290
Syracuse, N. Y.....	177, 265	2, 151	12.2	355	82	105	2, 640	15.2	438
Toledo, Ohio.....	253, 696	3, 041	12.0	406	76	89	3, 413	13.8	473
Trenton, N. J.....	122, 760	1, 683	13.7	268	79	.....	1, 586	15.7	337
Washington, D. C.....	454, 026	6, 052	13.4	757	87	91	6, 463	14.6	803
Wilmington, Del.....	113, 406	1, 373	12.1	231	83	87	1, 563	14.0	322
Worcester, Mass.....	184, 972	2, 361	12.8	370	77	85	2, 668	14.7	410
Yonkers, N. Y.....	103, 324	942	9.1	153	61	89	1, 153	11.4	212
Youngstown, Ohio.....	139, 432	1, 607	11.6	365	93	95	1, 738	12.9	375

¹ Cities appearing in the summary are those shown for the 52 weeks in Weekly Health Index.

² Populations estimated as of July 1, 1921, based upon the Federal censuses of 1910 and 1920.

³ Allowance has been made for the extra day which must be added to the 52 weeks to give a period of 365 days.

⁴ Infant mortality rate is based upon deaths under 1 year as returned each week and estimated births, 1921.

⁵ Cities left blank are not in the registration area for births.

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 STATE SUMMARIES.

Telegraphic Reports for Week Ended Jan. 7, 1922.

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

ALABAMA.		Cases.	COLORADO.		Cases.
Chicken pox.....		35	(Exclusive of Denver.)		
Diphtheria.....		38	Cerebrospinal meningitis.....		1
Hookworm.....		6	Chicken pox.....		33
Influenza.....		2	Diphtheria.....		73
Malaria.....		7	Impetigo contagiosa.....		1
Pellagra.....		5	Measles.....		3
Pneumonia.....		16	Mumps.....		8
Scarlet fever.....		19	Pneumonia.....		5
Smallpox.....		15	Scarlet fever.....		33
Tetanus.....		2	Smallpox.....		38
Tuberculosis.....		19	Tuberculosis.....		42
Typhoid fever.....		14	Typhoid fever.....		2
ARKANSAS.			CONNECTICUT.		
Anthrax.....		1	Chicken pox.....		101
Chicken pox.....		4	Diphtheria:		
Diphtheria.....		11	Bridgeport.....		15
Influenza.....		83	Hartford.....		13
Malaria.....		12	New Haven.....		16
Measles.....		1	Scattering.....		42
Pellagra.....		1	German measles.....		3
Pneumonia.....		7	Favus.....		1
Scarlet fever.....		10	Influenza.....		5
Smallpox.....		8	Measles:		
Tuberculosis.....		4	Eastford.....		13
Typhoid fever.....		7	Groton (B).....		10
CALIFORNIA.			Norwich.....		14
Cerebrospinal meningitis—Pomona.....		1	Scattering.....		42
Diphtheria.....		194	Mumps.....		20
Influenza.....		38	Ophthalmia neonatorum.....		2
Measles.....		7	Pneumonia (lobar).....		34
Poliomyelitis—Fresno County.....		1	Scarlet fever:		
Scarlet fever.....		79	Hartford.....		10
Smallpox:			New Haven.....		11
Kern County.....		13	Scattering.....		69
San Jose.....		31	Smallpox.....		6
Santa Clara.....		9	Trachoma.....		1
Santa Clara County.....		20	Tuberculosis (all forms).....		15
Scattering.....		38	Typhoid fever.....		4
Typhoid fever.....		4	Whooping cough.....		69

FLORIDA.		IOWA.	
	Cases.		Cases.
Cerebrospinal meningitis.....	1	Cerebrospinal meningitis—Marshalltown.....	2
Diphtheria.....	13	Diphtheria.....	38
Influenza.....	3	Scarlet fever.....	83
Malaria.....	1	Smallpox.....	53
Pneumonia.....	4		
Scarlet fever.....	5	KANSAS.	
Smallpox.....	9	Cerebrospinal meningitis.....	1
Typhoid fever.....	3	Chicken pox.....	123
		Diphtheria.....	191
GEORGIA.		German measles.....	1
Chicken pox.....	15	Influenza.....	9
Dengue.....	2	Measles.....	5
Diphtheria.....	18	Mumps.....	4
Dysentery (bacillary).....	5	Pneumonia.....	24
German measles.....	1	Poliomyelitis.....	1
Hookworm disease.....	9	Scarlet fever.....	217
Influenza.....	21	Smallpox.....	31
Malaria.....	6	Tetanus.....	2
Paratyphoid fever.....	1	Tuberculosis.....	40
Pneumonia.....	19	Typhoid fever.....	6
Scarlet fever.....	17	Whooping cough.....	9
Septic sore throat.....	1		
Smallpox.....	15	LOUISIANA.	
Tetanus.....	4	Diphtheria.....	18
Trachoma.....	2	Influenza.....	7
Tuberculosis (pulmonary).....	11	Measles.....	10
Typhoid fever.....	3	Scarlet fever.....	10
Typhus fever.....	1	Smallpox.....	4
Whooping cough.....	3	Typhoid fever.....	28
ILLINOIS.		MAINE.	
Cerebrospinal meningitis:		Chicken pox.....	18
Adams County—Liberty Township.....	1	Diphtheria.....	14
Moline.....	1	Influenza.....	5
Olney.....	1	Measles.....	9
Diphtheria:		Mumps.....	4
Aurora.....	13	Pneumonia.....	5
Chicago.....	206	Scarlet fever.....	59
Freeport.....	10	Tuberculosis.....	7
Rockford.....	9	Typhoid fever.....	2
Streator.....	8		
Scattering.....	172	MARYLAND. ¹	
Influenza.....	25	Chicken pox.....	68
Lethargic encephalitis—Chicago.....	1	Diphtheria.....	72
Pneumonia.....	319	German measles.....	7
Scarlet fever:		Influenza.....	21
Chicago.....	151	Lethargic encephalitis.....	1
Morgan County—Jacksonville Precinct.....	8	Measles.....	102
Scattering.....	190	Mumps.....	30
Smallpox:		Pneumonia (all forms).....	91
Rock Island—Drury Township.....	8	Scarlet fever.....	95
Scattering.....	52	Septic sore throat.....	1
Typhoid fever.....	11	Tuberculosis.....	34
Whooping cough.....	23	Typhoid fever.....	16
		Whooping cough.....	12
INDIANA.		MASSACHUSETTS.	
Cerebrospinal meningitis—Lake County.....	1	Anthrax.....	1
Diphtheria.....	186	Chicken pox.....	172
Scarlet fever.....	124	Conjunctivitis (suppurative).....	7
Smallpox.....	48	Diphtheria.....	198
Typhoid fever.....	6	German measles.....	12

¹ Week ended Friday.

MASSACHUSETTS—continued.

	Cases.
Influenza	7
Lethargic encephalitis	5
Measles	234
Mumps	60
Ophthalmia neonatorum	11
Pellagra	1
Pneumonia (lobar)	107
Poliomyelitis	3
Scarlet fever	194
Septic sore throat	1
Tuberculosis (all forms)	175
Typhoid fever	7
Whooping cough	77

MINNESOTA.

Chicken pox	15
Diphtheria	79
Influenza	1
Measles	24
Pneumonia	4
Scarlet fever	148
Smallpox	70
Tuberculosis	40
Typhoid fever	11
Whooping cough	2

MISSISSIPPI.

Diphtheria	34
Scarlet fever	8
Smallpox	15
Typhoid fever	13

MISSOURI.

Chicken pox	70
Diphtheria	157
Epidemic sore throat	9
Influenza	7
Measles	4
Mumps	3
Poliomyelitis	2
Pneumonia	7
Rabies	1
Scarlet fever	95
Smallpox	36
Tetanus	5
Tuberculosis	21
Typhoid fever	7
Whooping cough	1

MONTANA.

Diphtheria	18
Scarlet fever	48
Smallpox	38

NEBRASKA.

Chicken pox	22
Diphtheria:	
Omaha	9
Scattering	24
Measles:	
Omaha	20
Scattering	14
Mumps	21
Scarlet fever	57
Smallpox	34
Tuberculosis	9

¹Deaths.

NEW JERSEY.

	Cases.
Cerebrospinal meningitis	2
Chicken pox	194
Diphtheria	170
Influenza	28
Measles	170
Paratyphoid fever	1
Pneumonia	184
Scarlet fever	285
Trachoma	1
Typhoid fever	6
Whooping cough	74

NEW MEXICO.

Cerebrospinal meningitis	1
Chicken pox	35
Diphtheria:	
Raton	12
Scattering	27
Measles	1
Mumps	8
Pellagra	1
Pneumonia	11
Scarlet fever	15
Smallpox	1
Tuberculosis	46
Typhoid fever	5
Whooping cough	6

NEW YORK.

(Exclusive of New York City.)

Diphtheria	265
Influenza	28
Measles	111
Pneumonia	314
Scarlet fever	338
Smallpox	1
Typhoid fever	26
Whooping cough	111

NORTH CAROLINA.

Chicken pox	91
Diphtheria	79
German measles	3
Measles	14
Ophthalmia neonatorum	1
Poliomyelitis	1
Scarlet fever	68
Septic sore throat	4
Smallpox	14
Typhoid fever	5
Whooping cough	153

OREGON.

Cerebrospinal meningitis	1
Chicken pox	20
Diphtheria:	
Portland	30
Scattering	8
Measles	3
Mumps	9
Pneumonia	14
Poliomyelitis—Astoria	1
Scarlet fever	8

OREGON—continued.		WASHINGTON—continued.	
	Cases.		Cases.
Smallpox:		Poliomyelitis.....	2
Portland.....	23	Scarlet fever:	5
Scattering.....	9	Spokane.....	21
Tuberculosis.....	13	Scattering.....	25
Typhoid fever.....	4	Smallpox:	
Whooping cough.....	2	Spokane.....	30
SOUTH DAKOTA.		Tacoma.....	8
Chicken pox.....	9	Scattering.....	31
Diphtheria.....	20	Tuberculosis.....	17
Mumps.....	3	Typhoid fever.....	6
Pneumonia.....	8	Whooping cough.....	16
Scarlet fever.....	72	WEST VIRGINIA.	
Smallpox.....	65	Diphtheria.....	27
Tuberculosis.....	1	Scarlet fever.....	15
Typhoid fever.....	3	Smallpox.....	4
Whooping cough.....	1	Typhoid fever.....	4
TEXAS.		WISCONSIN.	
Chicken pox.....	151	Milwaukee:	
Diphtheria.....	139	Cerebrospinal meningitis.....	1
Influenza.....	48	Chicken pox.....	73
Pneumonia.....	32	Diphtheria.....	31
Scarlet fever.....	58	German measles.....	2
Smallpox.....	53	Pneumonia.....	9
Typhoid fever.....	12	Scarlet fever.....	34
VERMONT.		Tuberculosis.....	6
Chicken pox.....	71	Typhoid fever.....	2
Diphtheria.....	7	Whooping cough.....	17
Measles.....	9	Scattering:	
Mumps.....	19	Chicken pox.....	128
Pneumonia.....	8	Diphtheria.....	113
Scarlet fever.....	68	German measles.....	2
Smallpox.....	1	Influenza.....	46
Typhoid fever.....	1	Measles.....	24
Whooping cough.....	19	Pneumonia.....	18
WASHINGTON.		Poliomyelitis.....	1
Chicken pox.....	60	Scarlet fever.....	131
Diphtheria.....	29	Smallpox.....	58
Measles.....	3	Tuberculosis.....	17
Mumps.....	60	Typhoid fever.....	5
Pneumonia.....	2	Whooping cough.....	58

Delayed Reports for Week Ended Dec. 31, 1921.

DISTRICT OF COLUMBIA.		KENTUCKY—continued.	
	Cases.		Cases.
Chicken pox.....	62	Measles:	
Diphtheria.....	30	Jefferson County.....	163
Measles.....	4	Scattering.....	6
Scarlet fever.....	18	Pneumonia.....	72
Smallpox.....	2	Poliomyelitis—Carlisle County.....	1
Tuberculosis.....	27	Scarlet fever.....	21
Whooping cough.....	8	Septic sore throat.....	3
KENTUCKY. ¹		Smallpox:	
Cerebrospinal meningitis—Graves County.....	1	Fulton County.....	18
Chicken pox.....	33	Scattering.....	13
Diphtheria:		Tonsillitis.....	5
Christian County.....	10	Trachoma.....	5
Daviss County.....	20	Tuberculosis:	
Jefferson County.....	61	Jefferson County.....	23
Scattering.....	41	Scattering.....	10
Influenza.....	61	Typhoid fever.....	21
Malaria.....	1	Whooping cough.....	1

¹ Deaths.

² For 2 weeks ended Dec. 31, 1921.

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Pollomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1921.										
Arizona (November).....		35			5		1	24	1	9
California (November).....	14	1,906	80	28	71	4	50	847	288	75
Delaware (November).....		17		3	3		1	72		10
Delaware (December).....		10			6			119		12
New Mexico (November).....		137	2	3	4			42	2	48
Ohio (November).....	6	3,265	36	2	169		10	1,789	168	312

PLAGUE (RODENT).

Galveston, Tex.

Two plague-infected rats have been reported at Galveston, Tex., as follows: One reported positive January 6, 1922, trapped December 5, 1921; one reported positive January 10, 1922, trapped December 12, 1921.

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921.

ANTHRAX.

City.	Cases.	Deaths.
Ohio:		
Cleveland.....	1	
Pennsylvania:		
Philadelphia.....	2	

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1920, inclusive. In instances in which data for the full six years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Dec. 24, 1921.		City.	Median for previous years.	Week ended Dec. 24, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				New York:			
Birmingham.....	0	1	1	Cohoes.....	0		1
California:				Mount Vernon.....	0	1	
Los Angeles.....	1		1	New York.....	4	4	5
San Francisco.....	1	1	1	Saratoga Springs.....	0		1
Illinois:				North Carolina:			
Chicago.....	1	1		Charlotte.....	0		1
Indiana:				Ohio:			
Indianapolis.....	0	2		Cleveland.....	0	3	
La Fayette.....	0	1		Pennsylvania:			
Maine:				New Castle.....	0	1	
Bangor.....	0	2		Pittsburgh.....	0	1	
Massachusetts:				Tennessee:			
Everett.....	0	1		Chattanooga.....	0	1	1
Michigan:				Memphis.....	0	1	
Detroit.....	0		1	West Virginia:			
Pontiac.....	0	1		Bluefield.....	0		1
New Jersey:							
Newark.....	0	1					
Trenton.....	0	1					

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHTHERIA.

See p. 68; also Telegraphic weekly reports from States, p. 58, and Monthly summaries by States, p. 62.

INFLUENZA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Massachusetts—Continued.		
Birmingham.....	2	1	Watertown.....	1	
Mobile.....		3	Winthrop.....	1	
Arkansas:			Worcester.....	12	1
Little Rock.....	1		Michigan:		
California:			Ann Arbor.....	1	
Los Angeles.....	2		Detroit.....		2
San Francisco.....	3	1	New Jersey:		
District of Columbia:			Newark.....	4	
Washington.....	2		New York:		
Florida:			Albany.....	8	
Tampa.....	3		Buffalo.....	2	
Georgia:			New York.....	34	5
Albany.....	1		Saratoga Springs.....	1	
Atlanta.....	5		Ohio:		
Illinois:			Akron.....	2	
Chicago.....	18	4	Pennsylvania:		
Kentucky:			Philadelphia.....	4	5
Covington.....	1		Utah:		
Louisiana:			Salt Lake City.....		1
New Orleans.....	1	3	Virginia:		
Maryland:			Petersburg.....	3	
Baltimore.....	8	1	Richmond.....		1
Massachusetts:			Roanoke.....	3	
Boston.....	1		West Virginia:		
Cambridge.....	1		Fairmont.....	1	
Fall River.....		1	Wisconsin:		
Lawrence.....	4		Green Bay.....	1	

LEPROSY.

California:					
Sacramento.....	1				
San Francisco.....	1				

LETHARGIC ENCEPHALITIS.

Maryland:			Nebraska:		
Cumberland.....		2	Omaha.....	1	1

MALARIA.

Arkansas:			Massachusetts:		
Fort Smith.....	2		Boston.....	2	
North Little Rock.....	1		New York:		
Florida:			New York.....	1	
Tampa.....	2		Tennessee:		
Georgia:			Memphis.....		1
Brunswick.....	1				
Louisiana:					
New Orleans.....		3			

MEASLES.

See p. 68; also Telegraphic weekly reports from States, p. 58, and Monthly summaries by States, p. 62.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			South Carolina:		
Birmingham.....		2	Greenville.....		2
Georgia:			Tennessee:		
Savannah.....	1	1	Memphis.....		1

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

PNEUMONIA (ALL FORMS).

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Kentucky:		
Anniston.....	2		Covington.....		4
Birmingham.....		9	Lexington.....		2
Montgomery.....		3	Louisville.....	3	
California:			Louisiana:		
Bakersfield.....		1	New Orleans.....	21	12
Berkeley.....		2	Maine:		
Long Beach.....	3		Auburn.....		1
Los Angeles.....	44	19	Bangor.....	1	
Oakland.....		3	Biddeford.....		2
Pasadena.....		2	Lewiston.....		1
Riverside.....	2	1	Portland.....		1
Sacramento.....		3	Maryland:		
San Bernardino.....		3	Baltimore.....	38	13
San Diego.....	5	4	Cumberland.....	3	2
San Francisco.....	11	7	Massachusetts:		
Santa Ana.....	3	1	Attleboro.....		1
Santa Barbara.....		1	Beverly.....		2
Stockton.....		2	Boston.....		20
Colorado:			Cambridge.....		4
Denver.....		16	Chelsea.....		2
Pueblo.....		3	Chicopee.....		1
Connecticut:			Clinton.....	1	
Bridgeport.....	5	2	Easthampton.....	3	
Bristol.....	4		Everett.....	1	
Greenwich.....	2		Fall River.....		2
Meriden.....	2		Greenfield.....		1
Milford.....		1	Haverhill.....	2	1
New Haven.....		6	Lawrence.....	3	
New London.....		1	Leominster.....		1
Delaware:			Lowell.....		5
Wilmington.....		4	Lynn.....		3
District of Columbia:			Medford.....		1
Washington.....		13	New Bedford.....		3
Florida:			Quincy.....		3
Tampa.....		1	Salem.....		1
Georgia:			Springfield.....	8	4
Atlanta.....		12	Taunton.....		2
Brunswick.....	1		Weymouth.....		3
Rome.....	3		Worcester.....		11
Savannah.....		3	Michigan:		
Illinois:			Ann Arbor.....	1	
Alton.....	2		Battle Creek.....		1
Bloomington.....		1	Benton Harbor.....	1	
Chicago.....	210	46	Detroit.....		9
Cicero.....	3		Flint.....	4	1
Decatur.....		3	Grand Rapids.....	3	2
East St. Louis.....	1		Hamtramck.....		2
Elgin.....		3	Highland Park.....	5	1
Evanston.....	2		Jackson.....	4	2
Forest Park.....	2		Kalamazoo.....	4	2
Freeport.....		1	Pontiac.....		1
Galesburg.....	1		Port Huron.....	2	1
Jacksonville.....		1	Saginaw.....	2	1
Kewanee.....	1		Minnesota:		
La Salle.....	1		Duluth.....		1
Oak Park.....	6		Minneapolis.....		5
Peoria.....		1	Rochester.....	3	2
Quincy.....	2		St. Paul.....		9
Rock Island.....	1		Missouri:		
Springfield.....		2	Cape Girardeau.....		1
Indiana:			Kansas City.....		7
Elkhart.....		1	St. Joseph.....		4
Fort Wayne.....		2	Montana:		
Gary.....		1	Great Falls.....		1
Hammond.....		2	Missoula.....		1
La Fayette.....		1	Nebraska:		
Marion.....		1	Lincoln.....		1
Mishawaka.....		2	Omaha.....		8
Iowa:			Nevada:		
Burlington.....		1	Reno.....		1
Council Bluffs.....		1	New Hampshire:		
Kansas:			Nashua.....		2
Kansas City.....	2		New Jersey:		
Lawrence.....		1	Bloomfield.....	5	
Parsons.....	1		Clifton.....	1	
Topeka.....	3	2	East Orange.....	3	1
Wichita.....	7				

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
New Jersey—Continued.			Ohio—Continued.		
Elizabeth.....		3	Dayton.....	3	
Hoboken.....		4	Fremont.....	1	
Jersey City.....	1		Hamilton.....		2
Kearny.....		2	Newark.....		1
Montclair.....		2	Salem.....		1
Morristown.....		1	Sandusky.....		1
Newark.....	41	10	Toledo.....		3
Orange.....		3	Youngstown.....		2
Passaic.....	6	4	Zanesville.....		1
Paterson.....	3		Oklahoma:		
Perth Amboy.....		1	Oklahoma City.....		1
Plainfield.....		2	Oregon:		
Trenton.....	11	3	Portland.....		8
West Hoboken.....		1	Pennsylvania:		
West Orange.....	3	1	Philadelphia.....	83	36
New York:			Rhode Island:		
Albany.....	28		Providence.....		4
Buffalo.....	18	8	South Carolina:		
Cohoes.....		1	Charleston.....		2
Cortland.....	2		Greenville.....		1
Geneva.....		3	South Dakota:		
Glen Falls.....		1	Sioux Falls.....	1	
Ithaca.....	4	1	Tennessee:		
Mount Vernon.....	2	1	Memphis.....		7
Newburgh.....	1		Nashville.....		1
New York.....	309	158	Texas:		
Niagara Falls.....	4	1	Beaumont.....		1
Peekskill.....	3		Corpus Christi.....	1	
Port Chester.....	2	1	Dallas.....		6
Poughkeepsie.....		1	Galveston.....		2
Rochester.....	7	4	Waco.....		2
Rome.....	3		Utah:		
Saratoga Springs.....	1		Salt Lake City.....		1
Schenectady.....	4		Virginia:		
Syracuse.....	7	4	Alexandria.....	3	
Troy.....	5	2	Lynchburg.....		1
Watertown.....		1	Norfolk.....	1	
White Plains.....	2		Petersburg.....		2
Yonkers.....		3	Portsmouth.....		2
North Carolina:			Richmond.....		6
Charlotte.....		1	Roanoke.....	3	
Greensboro.....		2	West Virginia:		
Wilmington.....		1	Fairmont.....	1	
Winston-Salem.....		2	Huntington.....		1
Ohio:			Wheeling.....		1
Ashtabula.....	1		Wisconsin:		
Canton.....		3	Janesville.....		1
Cincinnati.....	1		Kenosha.....		4
Cleveland.....	32		Milwaukee.....	11	
Columbus.....		4	Racine.....		1

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1920, inclusive. In instances in which data for the full six years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Dec. 24, 1921.		City.	Median for previous years.	Week ended Dec. 24, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Illinois:				Nevada:			
Aurora.....	0	1		Reno.....		1	
Chicago.....	1	2		New York:			
Massachusetts:				New York.....	0	1	
Melrose.....	0	1		Ohio:			
				Toledo.....	0		1

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

RABIES IN ANIMALS.

City.	Cases.
California:	
Los Angeles.....	4
Georgia:	
Augusta.....	6
Missouri:	
Kansas City.....	1

SCARLET FEVER.

See p. 68; also Telegraphic weekly reports from States, p. 58, and Monthly summaries by States, p. 62.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1920, inclusive. In instances in which data for the full six years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Dec. 24, 1921.		City.	Median for previous years.	Week ended Dec. 24, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Arkansas:				Missouri—Continued.			
Fort Smith.....	0	1		St. Joseph.....	5	1	
California:				St. Louis.....	2	1	
Bakersfield.....	0	22		Montana:			
Los Angeles.....	2	1		Billings.....	0	1	
Oakland.....	0	1		Great Falls.....	0	5	
Richmond.....	0	1		Nebraska:			
San Francisco.....	0	2		Omaha.....	4	6	
Stockton.....	0	3		Ohio:			
Colorado:				Cincinnati.....	1	1	
Denver.....	7	12	7	Dayton.....	0	1	
District of Columbia:				Fremont.....	0	3	
Washington.....	0	4		Oklahoma:			
Georgia:				Oklahoma City.....	1	5	
Atlanta.....	3	4		Oregon:			
Savannah.....	0	4		Portland.....	2	16	
Illinois:				Pennsylvania:			
Aurora.....	0	1		Harrisburg.....	0	1	
Centralia.....	0	2		Philadelphia.....	0	1	
Chicago.....	3	1	1	Punxsutawney.....		1	
Peoria.....	0	1		South Dakota:			
Quincy.....	0	1		Sioux Falls.....	1	1	
Indiana:				Tennessee:			
Gary.....	0	1		Nashville.....	0	1	
Marion.....	0	3		Houston.....	0	2	
Muncie.....	2	9		Utah:			
Iowa:				Salt Lake City.....	2	10	
Burlington.....	0	2		Vermont:			
Cedar Rapids.....	0	2		Rutland.....	0	1	
Muscatine.....	0	14		Virginia:			
Sioux City.....	7	1		Alexandria.....	0	1	
Waterloo.....	0	1		Petersburg.....	0	1	
Kansas:				Washington:			
Hutchinson.....	0	20		Aberdeen.....	0	6	
Maine:				Spokane.....		8	
Waterville.....		1		Tacoma.....	1	7	
Michigan:				Vancouver.....		2	
Benton Harbor.....	0	1		Walla Walla.....	2	9	
Ishpeming.....	0	1		Yakima.....	5	1	
Minnesota:				West Virginia:			
Duluth.....	6	1		Bluefield.....	1	1	
Hibbing.....	0	4		Wisconsin:			
Minneapolis.....	13	9		Eau Claire.....	0	1	
St. Paul.....	7	28		Manitowoc.....	0	10	
Missouri:				Milwaukee.....	7	2	
Independence.....	0		1	Racine.....	0	1	
Kansas City.....	2	14	10	Waukesha.....		1	
				West Allis.....		1	

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Connecticut: New Haven.....	1		Missouri: St. Louis.....	2	1
Georgia: Savannah.....	1	1	Tennessee: Memphis.....		1
Illinois: Chicago.....	1	1			
East St. Louis.....	1	1			

TUBERCULOSIS.

See p. 68; also Telegraphic weekly reports from States, p. 58.

TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1920, inclusive. In instances in which data for the full six years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Dec. 24, 1921.		City.	Median for previous years.	Week ended Dec. 24, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama: Birmingham.....	1	2		Nebraska: Omaha.....	0	1	
Arkansas: Fort Smith.....	0	1		New Mexico: Albuquerque.....	0	2	
Little Rock.....	0	1		New York: Albany.....	0	1	
North Little Rock.....	0	1		Auburn.....	0	1	
California: Berkeley.....	0	1		Buffalo.....	2	2	
Los Angeles.....	0	1	1	Ithaca.....	0	1	
Oakland.....	0	1		New York.....	12	7	1
San Diego.....	0	1		North Tonawanda.....	0	1	
San Francisco.....	1	1		Poughkeepsie.....	0		1
Colorado: Denver.....	0	1		Syracuse.....	0	1	
Connecticut: Greenwich.....	0		1	Troy.....	0	2	
Hartford.....	0		1	Watertown.....	0	1	
Norwich.....	0	5		North Carolina: Wilmington.....	0	2	
Delaware: Wilmington.....	0	1		Winston-Salem.....	0	1	1
District of Columbia: Washington.....	2	6		Ohio: Bucyrus.....		1	
Georgia: Albany.....		1		Cleveland.....	2	6	
Atlanta.....	0	2		Columbus.....	0		1
Macon.....	1	1		Fremont.....	0	1	
Savannah.....	1	2	1	Lorain.....	0	2	1
Illinois: Chicago.....	7	5	2	Newark.....	0	2	
Freeport.....	0	1		Pennsylvania: Butler.....	0	1	
Indiana: Indianapolis.....	1	1	1	Farrell.....	0	1	
Louisiana: New Orleans.....	1	6		Johnstown.....	0	1	
Maine: Bangor.....	0	1		New Kensington.....		1	
Maryland: Baltimore.....	6	3	2	Philadelphia.....	3	4	1
Massachusetts: Boston.....	1	2	1	Rhode Island: Pawtucket.....	0	1	
Fall River.....	1	1		South Carolina: Charleston.....	0	2	1
Malden.....	0	1		Tennessee: Chattanooga.....	0	1	
Worcester.....	0	1		Knoxville.....	0	1	
Minnesota: Hibbing.....	0	1		Texas: Dallas.....	0		1
Mankato.....	0	1		Utah: Salt Lake City.....	1	1	1
St. Paul.....	1	2		Virginia: Roanoke.....	0		
Missouri: St. Louis.....	3	2	1	West Virginia: Charleston.....	0	1	
Montana: Billings.....	0	1		Huntington.....	0	5	2
Great Falls.....	0	1		Wisconsin: Marinette.....	0	1	
				Oshkosh.....	0	1	

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

TYPHUS FEVER.

City.	Cases.	Deaths.
Massachusetts:		
Boston	1	.....

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Popula- tion Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Birmingham	178,270	54	5	.....	1	.....	1	.....	3	6
Mobile	60,151	17	.....	.....	.....	.....	1	.....	.....	1
Montgomery	43,464	11	2	.....	.....	.....	.....	.....	.....	.....
Arizona:										
Tucson	20,292	11	.....	.....	.....	.....	.....	.....	.....	6
Arkansas:										
Fort Smith	28,811	5	2	.....	.....	.....	.....	.....	1	.....
Hot Springs	11,685	7	1	.....	.....	.....	1	.....	.....	1
Little Rock	64,997	.....	.....	.....	.....	.....	5	.....	5	.....
North Little Rock	14,048	.....	1	.....	.....	.....	.....	.....	.....	.....
California:										
Alameda	28,806	3	.....	.....	.....	.....	.....	.....	1	.....
Bakersfield	18,638	7	.....	.....	.....	.....	.....	.....	.....	.....
Berkeley	55,886	9	3	.....	1	.....	.....	.....	1	.....
Eureka	12,923	1	.....	.....	.....	.....	.....	.....	.....	.....
Long Beach	55,593	14	3	.....	3	.....	2	.....	.....	.....
Los Angeles	576,673	196	75	6	4	.....	31	1	31	17
Oakland	216,361	55	24	1	.....	.....	10	.....	4	2
Pasadena	45,354	14	.....	.....	.....	.....	.....	.....	1	.....
Richmond	16,843	1	.....	.....	.....	.....	1	.....	.....	.....
Riverside	19,341	6	3	.....	.....	.....	.....	1	.....	.....
Sacramento	65,857	29	11	1	1	.....	3	.....	.....	1
San Bernardino	18,721	9	.....	.....	.....	.....	1	.....	.....	1
San Diego	74,663	41	3	.....	.....	.....	2	.....	.....	1
San Francisco	508,410	152	50	5	5	.....	19	1	28	11
Santa Ana	15,485	5	2	.....	.....	.....	.....	.....	.....	.....
Santa Barbara	19,441	9	.....	.....	.....	.....	.....	.....	.....	.....
Santa Cruz	10,917	1	.....	.....	.....	.....	.....	.....	.....	.....
Stockton	40,296	20	10	.....	.....	.....	10	.....	.....	3
Colorado:										
Denver	256,369	87	12	1	3	.....	14	.....	.....	16
Pueblo	42,908	10	13	.....	.....	.....	4	.....	.....	3
Connecticut:										
Bridgeport	143,538	30	10	.....	1	.....	4	1	3	4
Bristol	20,620	1	3	.....	.....	.....	2	.....	1	.....
Dorby	11,238	2	.....	.....	.....	.....	.....	.....	.....	.....
Fairfield (town)	11,475	0	2	.....	.....	.....	9	.....	.....	.....
Greenwich (town)	22,123	.....	3	.....	.....	.....	.....	.....	.....	1
Hartford	138,036	29	11	.....	1	.....	2	.....	1	1
Manchester (town)	18,370	2	.....	.....	.....	.....	.....	.....	.....	.....
Meriden (city)	29,842	.....	3	.....	.....	.....	2	.....	1	.....
Milford (town)	10,193	4	5	.....	.....	.....	.....	.....	.....	.....
New Haven	162,519	41	10	1	2	.....	10	.....	2	.....
New London	25,688	7	1	.....	.....	.....	1	.....	1	.....
Norwich (town)	29,685	6	3	.....	4	.....	2	.....	1	.....
Delaware:										
Wilmington	110,168	20	.....	.....	.....	.....	20	.....	.....	1
District of Columbia:										
Washington	437,571	125	38	1	3	.....	19	.....	28	6
Florida:										
Tampa	51,252	21	7	.....	.....	.....	1	.....	.....	3
Georgia:										
Albany	11,555	.....	.....	.....	.....	.....	1	.....	.....	.....
Atlanta	200,616	74	6	.....	.....	.....	10	.....	5	6
Augusta	52,548	.....	1	.....	.....	.....	1	.....	.....	.....
Brunswick	14,413	6	.....	.....	.....	.....	.....	.....	1	.....
Macon	52,995	.....	.....	.....	.....	.....	5	.....	.....	.....
Rome	13,252	.....	2	.....	.....	.....	2	.....	.....	.....
Savannah	83,252	33	1	.....	.....	.....	4	.....	1	1
Valdosta	10,783	2	.....	.....	.....	.....	1	.....	.....	.....

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Idaho:										
Boise.....	21,393	6	1				4			
Illinois:										
Alton.....	24,682	3					3			
Aurora.....	36,397	7	9	1	10		1		17	
Bloomington.....	28,725	11	1							
Blue Island.....	11,424	5	10							
Centralia.....	12,491	2								
Champaign.....	15,873		1							
Chicago.....	2,701,705	653	199	16	49	1	108	2	240	46
Cicero.....	44,995	3	10				1			
Decatur.....	43,818	10	18							
East St. Louis.....	66,740	16	9				1		1	
Elgin.....	27,454	7					1		1	
Evanston.....	37,215	9	2				1		1	
Forest Park.....	10,768				2					
Freeport.....	19,669	6	5	1			4			
Galesburg.....	23,834	10	5							1
Jacksonville.....	15,713	8	1				3			
Kewanee.....	16,028	5	2						2	1
La Salle.....	13,050		4							
Mattoon.....	13,552	3	2				2	1		
Oak Park.....	39,830	9	2		2		2		1	3
Pekin.....	12,086		4				3			
Peoria.....	76,121	21	1				6			
Quincy.....	35,978	4					1		4	
Rock Island.....	35,177	6			1		1			
Springfield.....	59,183	19	6	1			2		1	1
Indiana:										
Bloomington.....	11,595	2								
Elkhart.....	24,277	4	8							
Fort Wayne.....	36,549	18	6		1		2			1
Frankfort.....	11,685	2								
Gary.....	55,378	18	5						1	1
Hammond.....	36,004	5	3				3			
Huntington.....	14,000	3					1			
Indianapolis.....	314,194	93	24	1	2		9		14	5
Kokomo.....	30,067	7	1				1			1
La Fayette.....	22,486	9	3				2			2
Logansport.....	21,626	5	1							
Marion.....	23,747	5	2				2			
Mishawaka.....	15,195	3								1
Muncie.....	36,624	17	1	1			3			1
South Bend.....	70,983	3	3							
Terre Haute.....	66,083	15	4				2			3
Iowa:										
Burlington.....	24,057	4					2			
Cedar Rapids.....	45,566		2				1			
Council Bluffs.....	36,162	3	4							
Davenport.....	56,727		1	1						
Marshalltown.....	15,731				1					
Muscatine.....	16,068	4	1				6			
Ottumwa.....	23,003		1				1			
Sioux City.....	71,227		14				5			
Waterloo.....	36,230		4		1		2			
Kansas:										
Atchison.....	12,630		3							
Coffeyville.....	13,452	2			1					1
Fort Scott.....	10,693	6	3				2			
Hutchinson.....	23,298		9	1	1		2			
Kansas City.....	101,177		4				4			
Lawrence.....	12,456	3			1					1
Leavenworth.....	16,912		2				3			
Parsons.....	16,028	5	2				2		1	
Salina.....	15,085	3	2				2			
Topeka.....	50,022	12	10				6		7	
Wichita.....	72,128	22	10		1		9		12	2
Kentucky:										
Covington.....	57,121	18					1		1	1
Lexington.....	41,534	18	2							
Louisville.....	234,891	74	23	2	34		3		13	2
Owensboro.....	17,424		9						1	
Paducah.....	24,735		1							

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tubercu- losis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Louisiana:										
New Orleans.....	387, 219	140	14				4		28	17
Maine:										
Auburn.....	16, 985	4	1			8	1			
Bangor.....	25, 978					1				
Bath.....	14, 731	2								
Biddeford.....	18, 008	11	2							
Lewiston.....	31, 791	9	5	2		6				
Portland.....	69, 272	20				7				1
Sanford.....	10, 691	1								
Waterville.....	13, 351		1			1				
Maryland:										
Baltimore.....	733, 826	173	43	4	53	58		23		20
Cumberland.....	29, 837	8	3			1		1		
Massachusetts:										
Adams.....	12, 967	1				5				
Amesbury.....	10, 036	2								
Arlington.....	18, 665	2	1		2					
Attleboro.....	19, 731	4	1							
Beverly.....	22, 561	3								
Boston.....	748, 060	237	71	5	47	1	2	1		23
Braintree.....	10, 580	5	1			38		43		
Brookline.....	37, 748	11	4		1	1				1
Cambridge.....	109, 694	33	8		3	4		4		4
Chelsea.....	43, 184	8	1		1	4		1		
Chicopee.....	36, 214	4	5							
Clinton.....	12, 979	5					1			
Danvers.....	11, 108		1			3		1		
Dedham.....	10, 792	0			1					
Everett.....	40, 120	9	1		1	4		2		1
Fall River.....	120, 435	21	4			1		3		1
Gardner.....	16, 971	2	4			4		1		1
Greenfield.....	15, 462	4			8	1				
Haverhill.....	53, 884	19	5	1		3				1
Lawrence.....	94, 270	28		1	3		1	2		3
Leominster.....	19, 744	4	4		1			1		
Lowell.....	112, 479	42	3			2		2		2
Lynn.....	99, 148	26	14		8			6		3
Malden.....	49, 103	15	5	1		7	1			
Medford.....	39, 038	10	2		17					1
Melrose.....	18, 204		1		15	3				
Methuen.....	15, 189	1			3					
New Bedford.....	121, 217	23	14	1	1	6		2		1
Newburyport.....	15, 618	3			1					
North Adams.....	22, 282	5	1			2				1
Northampton.....	21, 951	7	1							
Norwood.....	12, 627	4				1		2		
Pittsfield.....	41, 751	8	2			3	1	2		
Plymouth.....	13, 045	2								
Quincy.....	47, 876	15	4	1	9	10				1
Salem.....	42, 529	9			1	1				
Somerville.....	93, 091	17	2		1	4		3		2
Southbridge.....	14, 245	2								
Springfield.....	129, 563	38	7		5	8		3		3
Taunton.....	37, 137	9	1			1		2		
Wakefield.....	13, 025	4	1			4				
Waltham.....	30, 915	5	2			2		1		
Watertown.....	21, 457	2			2					
Webster.....	13, 258	2						3		
West Springfield.....	13, 443	2								1
Westfield.....	18, 604	5	2							
Weymouth.....	15, 057	6								
Winthrop.....	15, 455	1						1		
Woburn.....	16, 574	2								
Worcester.....	179, 754	54	4		15	11				3
Michigan:										
Ann Arbor.....	19, 516	10	4							
Battle Creek.....	36, 164		8		5	1				
Benton Harbor.....	12, 233		3			1				1
Detroit.....	993, 739	172		7		2				11
Flint.....	91, 599	13	14			16				1
Grand Rapids.....	137, 634	31	11	1		18	1	16		
Hamtramck.....	48, 615	8								
Highland Park.....	46, 499	11	5			5				

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHtherIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Michigan—Continued.										
Holland	12,166	4	1						2	
Ishpeming	10,500	1								
Jackson	48,374	16	3		1		7		3	1
Kalamazoo	48,858	19	9				21		1	1
Marquette	12,718	1							2	
Pontiac	34,273	8	5	1	1		9	1		
Port Huron	25,944	4	4				1		1	
Saginaw	61,903	20	8							2
Sault Ste. Marie	12,096	2					1			1
Minnesota:										
Austin	10,118	6								
Duluth	98,917	16	3				3			2
Fairbault	11,089	5								
Hibbing	15,089	2								
Minneapolis	390,582	32	35		11		42		30	5
Rochester	13,722	15								1
St. Cloud	15,873		3				4			
St. Paul	234,565	59	23		1		32		9	4
Winona	19,143		1							
Missouri:										
Cape Girardeau	10,282	6	2				1			
Independence	11,686	6								1
Joplin	29,855		1		1					
Kansas City	324,410	86	26	2			7			
St. Joseph	77,939	18	3	1			7			
St. Louis	772,897	188	80	2	2		19	1	21	12
Montana:										
Anaconda	11,668								1	
Billings	15,100	2	1				5			
Great Falls	24,121	5	1							
Missoula	12,668	4							1	
Nebraska:										
Lincoln	54,934	12	2		3		3			1
Omaha	191,601	47	17	2	20		1			4
Nevada:										
Reno	12,016	4								
New Hampshire:										
Berlin	16,104	4					2			
Concord	22,167	8					1			
Dover	13,029	4								
Keene	11,210	5								
Nashua	28,379	12								
New Jersey:										
Asbury Park	12,400	1								
Atlantic City	50,682	14	1		1		1		1	
Bayonne	76,754		2				6			
Bloomfield	22,019	6	2				4			1
Clifton	26,470	1	2		1		4			1
East Orange	50,710	8	2				4		2	
Elizabeth	95,682		15	1	1		2		2	2
Garfield	19,381	1	3							
Hackensack	17,667	2								
Hoboken	68,166	14	3	1			1	1	1	1
Jersey City	297,864		13		9		16		3	
Kearny	26,724	4	2	1	6		6			
Montclair	28,810	7	1				4			
Morristown	12,548	9	2							
New Brunswick	32,779	11	1							
Newark	414,216	90	25		39	1	59	1	17	9
Orange	33,268	17					4			1
Passaic	63,824	24	6	1	1		9		2	
Paterson	135,866		5		10		7		3	
Perth Amboy	41,707	5	9		4		3			
Phillipsburg	16,923	2							1	1
Plainfield	27,700	10	2		4					
Rahway	11,042	2	5							
Summit	10,174	3	2				1			
Trenton	119,289	44	12	1			8		4	2
Union	20,651		1				1			
West Hoboken	40,068	6	2		5				2	
West New York	29,926		1				1			
West Orange	15,573	4					4			
New Mexico:										
Albuquerque	15,157	6	4				1			4

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.
DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York:										
Albany.....	113,344		13		5		3		8	1
Auburn.....	36,192	7	1			1		2	1	9
Buffalo.....	508,775	116	39	5	5	35	1	12	2	
Cohoes.....	22,987	7				5				
Cortland.....	13,294	6								
Geneva.....	14,648	6								
Glens Falls.....	16,638	3	1						1	
Ithaca.....	17,004	8	1						1	1
Little Falls.....	13,029	6							1	1
Lockport.....	21,308	7	4			6				2
Mount Vernon.....	42,726	8	1			6			1	
Newburgh.....	30,366	14	4						3	
New York.....	5,621,151	1,332	282	20	262	6	325	6	1188	101
Niagara Falls.....	50,760	10	3		1		20			
North Tonawanda.....	15,482	5	7	1			20			1
Olean.....	20,506	2	1							
Peekskill.....	15,868	3	1						2	
Port Chester.....	16,573	6	1				2			1
Poughkeepsie.....	35,000	10			1				2	2
Rochester.....	295,750	59	18	1	1		8		9	4
Rome.....	26,341	13	7				1			1
Saratoga Springs.....	13,181	9								
Schenectady.....	88,723	15	7		1		9			2
Syracuse.....	171,717	33	17	5			10	2	12	2
Troy.....	72,013	17	2				5		4	2
Watertown.....	31,285	12								
White Plains.....	21,031	4							1	1
Yonkers.....	100,226	13	1		2		13			2
North Carolina:										
Charlotte.....	46,338	14	4						3	
Durham.....	21,719	7	1							2
Greensboro.....	19,861	3								
Rocky Mount.....	12,742	5								
Salisbury.....	13,884	6								
Wilmington.....	33,372	8	2				1			1
Winston-Salem.....	48,395	13			1		4			2
Ohio:										
Akron.....	206,435	20	14		2		17			1
Ashtabula.....	22,082	8					1			1
Barberton.....	18,811	5					2		1	1
Bucyrus.....	10,425	1					2			
Canton.....	87,091	23	13	1			6		1	1
Chillicothe.....	15,831	2	1							
Cincinnati.....	401,247	112	28	6	3		4		18	8
Cleveland.....	796,836		50		40		45			
Columbus.....	237,031	56	17		2		3		4	3
Coshocton.....	10,847		1				1			
Dayton.....	152,559	47	9				1		2	
East Cleveland.....	27,292	3	1		2		1		2	
Findlay.....	17,021		1							
Fremont.....	12,468	3							2	
Hamilton.....	39,675	11	3				1		1	2
Ironton.....	14,007	2								
Kenmore.....	12,683		1				1			
Lakewood.....	41,732	5					2			
Lancaster.....	14,706	8	1				1		1	
Lima.....	41,306	7	5				5			
Lorain.....	37,295		7		4		6		1	
Mansfield.....	27,824	6	1						1	
Marion.....	27,891		7		4					
Middletown.....	23,594	6	1						1	1
Newark.....	26,718	13	15	2			6			
New Philadelphia.....	10,718		4				3		1	
Niles.....	13,080	2								
Norwood.....	24,966	2	3				2		1	1
Piqua.....	15,044	4								
Salem.....	10,305	1								
Sandusky.....	22,897	3					1			
Springfield.....	60,840	12	14		1				1	1
Steubenville.....	28,508	5					2		1	
Toledo.....	243,109	66	21	2			5		2	6
Youngstown.....	132,358	4	1				1		4	2
Zanesville.....	29,569	20					3			1

1 Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Oklahoma:										
Oklahoma City.....	91,258	21	3				4			1
Oregon:										
Portland.....	258,288	64	33	2	2	7		4		3
Pennsylvania:										
Allentown.....	73,502		8		1					
Altoona.....	60,331		2			6				
Ambridge.....	12,730		1							
Bethlehem.....	50,358		14			3				
Braddock.....	20,879		1							
Bradford.....	15,525					1				
Bristol.....	10,273		2							
Butler.....	23,778		4		1	1				
Canonsburg.....	10,632		1			2				
Carnegie.....	11,516					1				
Carrick.....	10,504		2							
Charleroi.....	11,516					1				
Chester.....	58,030				1	1			2	
Coatesville.....	14,515		1							
Connellsville.....	18,804		4							
Dubois.....	13,681		5							
Easton.....	33,813		1		2	1			1	
Erie.....	93,372		5			4			6	
Farrell.....	15,586				3	3				
Greensburg.....	15,033		1							
Harrisburg.....	75,917		4			3				
Hatleton.....	32,277		4		1					
Johnstown.....	67,327		3		7					
Lancaster.....	53,150		5			1				
Lebanon.....	24,643		2							
McKeesport.....	45,975		2		4	1				
McKees Rocks.....	16,713		6		1	2				
Mahanoy City.....	15,599				2					
Meadville.....	14,563					2				
Monessen.....	18,179		3			1				
Mount Carmel.....	17,469		2							
Nanticoke.....	22,614		3							
New Castle.....	44,938		2				4			
New Kensington.....	11,967						2			
North Braddock.....	14,923						2			
Oil City.....	21,274		1			1				
Philadelphia.....	1,823,158	471	81	2	2	163	1	62	31	
Phoenixville.....	10,484					1				
Pittsburgh.....	588,193		33		10	34		20		
Plymouth.....	16,500				1					
Pottstown.....	17,431		1		1	16				
Pottsville.....	21,876				4					
Reading.....	107,784		8			3				
Scranton.....	137,783		5			2		7		
Sharon.....	21,747		1		9					
Shenandoah.....	24,726		1			1				
Sunbury.....	15,721				1	3				
Tamaqua.....	12,363		2		1	1				
Uniontown.....	15,692		5			2				
Warren.....	14,256					1				
Washington.....	21,480		6		2					
West Chester.....	11,717					1				
Wilkes-Barre.....	73,833		7		9					
Wilkinsburg.....	24,403		2			2				
Williamsport.....	36,198		4			5				
Woodlawn.....	12,495		1			1				
York.....	47,512		3			1				
Rhode Island:										
Cranston.....	29,407	3								
East Providence (town).....	21,793		1			1				
Pawtucket.....	64,248	9	1			1			1	
Providence.....	237,595	60	16	1	2	5			1	
South Carolina:										
Charleston.....	67,957	31	2	1		8			3	
Columbia.....	37,524		3		1	2				
Greenville.....	23,127	4	2						1	
South Dakota:										
Sioux Falls.....	25,176	3	1		1	1				

CITY REPORTS FOR WEEK ENDED DEC. 24, 1921—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Tennessee:										
Chattanooga	57,895		3							
Knoxville	77,818						1			
Memphis	162,351	58	31	1		3		26	2	1
Nashville	118,342	37	2			6				
Texas:										
Beaumont	40,422	6	2				1			1
Corpus Christi	10,522	4	1							
Dallas	158,976	42	8		5	2		1		3
Galveston	44,255	18	5							3
Houston	138,076	29	5			4				1
Waco	38,500	9	1			1				
Utah:										
Salt Lake City	118,110	23	3	1			14	1		
Vermont:										
Barre	10,008						2			
Burlington	22,779	4	4				8			
Rutland	14,954	8								
Virginia:										
Alexandria	18,060	4								
Danville	21,539	3	2		2					
Lynchburg	29,956	11	3						1	2
Norfolk	115,777	5	5						1	4
Petersburg	31,002	8	3						2	1
Portsmouth	54,387	15				2				
Richmond	171,667	49	11		9	7			3	2
Roanoke	50,842	12	11			1			2	
Washington:										
Everett	27,644		1				3			
Seattle	315,652		8		1	6			11	
Spokane	104,437		7			8				
Tacoma	96,965		3			3			2	
Walla Walla	15,503		1			1			23	
Yakima	18,539		2			1				
West Virginia:										
Bluefield	15,282	6	3			3				
Charleston	39,608	13	2			3				1
Fairmont	17,851		4							
Huntington	50,177	19	1	1		1				
Martinsburg	12,515		1			2				
Moundsville	10,669	3				5				1
Wheeling	54,322	18	4		1	14				1
Wisconsin:										
Appleton	19,561		5							
Ashland	11,334								1	
Beloit	21,284	5	5			9				
Eau Claire	20,880				1	3				
Fond du Lac	23,427	3				3				
Green Bay	31,017		5		1					
Janesville	18,293	3	1			1				
Kenosha	40,472	7	9			2				
Madison	38,378	12	2			1				
Manitowoc	17,563				1	1				
Marinette	13,610		3			2				
Milwaukee	457,147		27			15			8	
Oshkosh	33,162	6	2			1			2	
Racine	58,593	11	13	1	1	19			1	
Sheboygan	30,955		2							
Superior	39,624	5	1			9				
Waukesha	12,658				1	1				
West Allis	13,765		4		1					
Wyoming:										
Cheyenne	13,829	3	1							

FOREIGN AND INSULAR.

AUSTRALIA.

Plague—Queensland.

Plague has been reported in Queensland, Australia, as follows:

Brisbane.—Week ended November 12, 1921, three cases; week ended November 26, 1921, three cases, with three deaths; for the two weeks under report, 16 plague rats found.

Cairns.—Week ended November 26, 1921, one case of plague and two plague rats reported.

Hinchinbrook Shire (Ingham).—Week ended November 12, 1921, nine plague rats found.

Townsville.—Week ended November 26, 1921, one case of plague, with one death.

The total number of cases of plague reported in Queensland from August 22 to November 26, 1921, was 29, with 18 deaths.

CANADA.

Scarlet Fever—Venereal Diseases—Fort William.

The Annual Report of the Department of Health of Fort William, Ontario, Canada, for the period November 1, 1920, to October 31, 1921, shows the occurrence of 201 cases of scarlet fever, with 5 deaths. The epidemic of mild scarlet fever which was stated to have prevailed during the past three years was declared terminated at the close of the period under report, but the type of the disease was stated to have been more severe than in the preceding year. The venereal disease report showed 27 cases of syphilis, 42 of gonorrhoea, and 1 of chancroid.

The health activities at Fort William during the year included the establishment of a baby clinic, the conduction of a preschool clinic for all children intending to enter school, the establishment of a clinic for treatment of venereal diseases, and the services of a visiting nurse. (Population of Fort William, census of October 31, 1921, 19,988.)

Scarlet Fever—Summerside, Prince Edward Island.

Under date of December 29, 1921, scarlet fever was reported to have been prevalent at Summerside, Prince Edward Island, Canada, for several months, with no mortality to date.

CANAL ZONE.**Quarantine Against Importation of Smallpox.**

On account of the presence of smallpox in Chiriqui Province, Republic of Panama, quarantine measures were ordered December 22, 1921, to be enforced against vessels arriving from ports in that Province for entry into Canal Zone waters or the Bay of Panama.

GREAT BRITAIN.**Anthrax—Bradford.**

A fatal case of anthrax was reported at Bradford, England, under date of December 15, 1921. The case occurred in a wool finisher engaged on brown Bagdad and brown alpaca. The cause of death was stated as "pulmonary anthrax by inhalation."

HAWAII.**Hookworm Disease on Vessels.**

During the month of November, 1921, 17 cases of hookworm disease were reported removed from vessels at ports in Hawaii.

INDIA.**Anthrax in Animals—Madras Presidency—September, 1921.**

During the month of September, 1921, 475 fatal cases of anthrax in animals, occurring in 25 districts of the Presidency of Madras, India, were reported by the civil veterinary department of the Presidency.

ITALY.**Plague—Naples—Venice.**

Plague has been reported in Italy, as follows:

Naples Province.—One case, October 22, 1921, at Torre Annunziata, in a laborer employed in a mill and bakery.

Venice.—October 27, 1921, one case in a mill employee.

JAMAICA.**Infectious Disease (Alastrim or Kaffir Pox).**

Alastrim or Kaffir pox has been reported in the island of Jamaica, as follows: Week ended December 3, 1921, 26 new cases; week ended December 10, 1921, 13 new cases.

Typhoid Fever—Kingston and Vicinity.

During the period under report typhoid fever was reported in Kingston and vicinity, as follows: Week ended December 3, 1921, Kingston, 5 cases; surrounding country, 27 cases; week ended December 10, 1921, Kingston, 6 cases; surrounding country, 28 cases.

MAURITIUS.**Plague.**

During the week ended November 5, 1921, 37 cases of plague, with 31 deaths, were reported in the island of Mauritius.

PERU.**Plague.**

During the two weeks ended November 30, 1921, 48 cases of plague, with 12 deaths, were reported in Peru.

RHODES (ISLAND).**Plague.**

On October 13, 1921, three new cases of plague, with one death, were reported on the Island of Rhodes, Aegean Sea.

RUMANIA.**Quarantine Against Arrivals and Importations from Naples.**

Quarantine restrictions were declared in force November 21, 1921, for Rumania against arrivals and importations from Naples, Italy, as follows: Importations by sea to be allowed entry only at the port of Constanza, on the Black Sea, and by land through Giurgiu, on the Danube; provisions of the sanitary convention of Paris, 1912, to be enforced as regards vessels, travelers, baggage, and importations from Naples and its environs; travelers to be subjected at their place of destination to medical surveillance during a period of seven days. The entry into Rumania of groups of workmen, emigrants, and tramps was prohibited.

RUSSIA.**Typhus Fever—Latvia.**

During the month of October, 1921, 87 cases of typhus fever were reported in the State of Latvia, Russia. (Population, estimated, 1,750,000.)

SWITZERLAND.**Epidemic Smallpox—Glarus.**

Under date of December 10, 1921, epidemic smallpox was reported present in the Canton of Glarus, with 125 reported cases.

UNION OF SOUTH AFRICA.**Anthrax in Animals—Cape Province.**

During the week ended November 10, 1921, outbreaks of anthrax in animals were reported as occurring on four farms in four districts of the Cape Province, Union of South Africa.

Typhus Fever—Natal.

An outbreak of typhus fever was reported, November 5, 1921, in the Vryheid district of the State of Natal.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During Week Ended Jan. 13, 1922.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Oct. 2-8, 1921; Deaths, 6,374.
Calcutta.....	Nov. 13-19.....	8	5	
Indo-China:				
Saigon.....	Nov. 6-12.....	1	1	
Philippine Islands:				
Manila.....	Nov. 13-Dec. 2....	4	1	

PLAGUE.

Asia Minor:				
Smyrna.....	Nov. 27-Dec. 3....	1	1	
Australia:				
New South Wales—				
Sydney.....				Nov. 6-19, 1922: Plague rats reported found at distance from wharves.
Queensland.....				Total cases of plague, Aug. 22-Nov. 26, 1921, 29; deaths, 18.
Brisbane.....	Nov. 6-26.....	6	3	Plague-infected rats, 16.
Cairns.....	Nov. 20-26.....	1		One plague rat.
Ingham.....	Nov. 6-12.....			Nine plague rats.
Townsville.....	Nov. 20-26.....	1	1	
Azores:				
St. Michael Island.....	Nov. 27-Dec. 3....	5	2	At Ribeira Grande and Fenaes d'Ajuda.
Ecuador:				
Guayaquil.....	Dec. 1-15.....	2		Rats examined, 1,458; found infected, 41.
Egypt.....				Jan. 1-Dec. 8, 1921: Cases, 336; deaths, 142.
City—				
Alexandria.....	Dec. 5-6.....	2		
Suez.....	Nov. 22-Dec. 5....	4	2	
Province—				
Keneh.....	Dec. 1.....	1	1	Septicemic.
India.....				Oct. 23-Nov. 12, 1921: Cases, 3,244; deaths, 2,398.
Indo-China:				
Saigon.....	Nov. 6-12.....			Rodent plague, 1.
Italy:				
Naples (Province)—				
Torre Annunziata.....	Oct. 22.....	1		
Venice.....	Oct. 27.....	1		
Mauritius (Island)	Oct. 30-Nov. 5....	37	31	
Mesopotamia:				
Bagdad.....	Oct. 1-31.....	1	1	
Peru.....				Nov. 17-30, 1921: Cases, 48; deaths, 12. Occurring in Callao, Huacho, Huaras, Lima, Magdalena Vieja, Paita, Salaverry, and Sechura.
Rhodes (Island) (Aegean Sea)..	Oct. 13.....	3	1	
Syria:				
Beirut.....	Oct. 9-Nov. 13....	9	3	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

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

Reports Received During Week Ended Jan. 13, 1922—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada:				
New Brunswick—				
Counties—				
Restigouche.....	Dec. 11-17.....	1		
York.....	do.....	1		
Ontario—				
Niagara Falls.....	Dec. 11-24.....	2		
Ottawa.....	Dec. 18-31.....	8		
Toronto.....	Dec. 18-24.....	3		
China:				
Amoy.....	Nov. 16-22.....		1	Nov. 23-29, 1921: Present.
Antung.....	Nov. 28-Dec. 4.....	2		
Chungking.....	Nov. 6-19.....			Present.
Foochow.....	Nov. 6-26.....			Do.
Hankow.....	Nov. 27-Dec. 3.....			Do.
Harbin.....	Nov. 14-27.....	3		
Mukden.....	Nov. 20-26.....			Do.
Nanking.....	Nov. 20-Dec. 3.....			Do.
Shanghai.....	Nov. 21-Dec. 4.....	22	27	Cases, foreign: deaths, Chinese.
Dominican Republic:				
San Pedro de Macoris.....	Dec. 4-17.....	10		In district, 146, estimated.
Santo Domingo.....	Nov. 15-Dec. 5.....	401		
Ecuador:				
Guayaquil.....	Dec. 1-15.....	2		Venezia and San Carlos haciendas.
Egypt:				
Alexandria.....	Nov. 26-Dec. 2.....	1	1	
Haiti:				
Port au Prince.....	Dec. 11-24.....			Present.
India:				
Calcutta.....	Nov. 13-19.....	3	3	Oct. 2-8, 1921: Deaths, 28.
Mesopotamia:				
Bagdad.....	Oct. 1-31.....	24	7	
Mexico:				
Guadalajara.....	Nov. 1-30.....	3		
Mexico City.....	Nov. 20-26.....	12		
San Luis Potosi.....	Dec. 18-24.....		2	
Panama:				
Ancon.....				Admitted to hospital by transfer from Panama, Nov. 30, 1921, 1 case. Arrived on sailing vessel from a village on south coast.
Chiriqui Province.....	Dec. 22.....			Present.
Panama.....	Dec. 14.....	1		On December 21, 1921, 1 additional case from country district of Sabanas, admitted to hospital. Total admissions Jan. 1-Dec. 21, 1921, 207.
Portugal:				
Lisbon.....	Nov. 13-26.....	12	5	
Russia:				
Latvia.....	Oct. 1-31.....	31		
Straits Settlements:				
Singapore.....	Nov. 13-19.....	2	1	
Switzerland:				
Glarus, Canton.....	Dec. 10.....			Epidemic.
Zurich.....	do.....	2		In vicinity.
Syria:				
Beirut.....	Oct. 9-Nov. 13.....	5	2	
Turkey:				
Constantinople.....	Nov. 27-Dec. 10.....	10	2	

TYPHUS FEVER.

Algeria:				
Algiers.....	Nov. 1-30.....	1		
China:				
Harbin.....	Nov. 14-27.....	3		
Egypt:				
Cairo.....	Oct. 15-21.....	2	1	
Mesopotamia:				
Bagdad.....	Oct. 1-31.....			7

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

Reports Received During Week Ended Jan. 13, 1922—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico:				
Mexico City.....	Nov. 20-26.....	24		
San Luis Potosi.....	Dec. 18-24.....		1	
Russia:				
Latvia.....	Oct. 1-31.....	87		
Turkey:				
Constantinople.....	Nov. 27-Dec. 10...	6		
Union of South Africa:				
Natal.....	Nov. 5.....			Outbreak.

YELLOW FEVER.

Mexico:				
Guadalajara.....	Nov. 1-30.....	1	1	

Reports Received from Dec. 31, 1921, to Jan. 6, 1922.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Oct. 30-Nov. 5....	1		
Calcutta.....	Oct. 23-Nov. 12...	6	6	
Karachi.....	do.....		1	
Rangoon.....	Oct. 1-Nov. 19....	6	4	
Java:				
West Java—				
Batavia.....	Nov. 1-7.....	2	2	Lebak.
Siam:				
Bangkok.....	Oct. 23-29.....	1		

PLAGUE.

Azores:				
St. Michael Island—				
Ribeira Grande.....	Nov. 13-26.....	5	3	The cases are of simple bubonic form.
Brazil:				
Bahia.....	Oct. 30-Nov. 5....	3	4	
British East Africa:				
Uganda.....	Aug. 1-Sept. 30...	85	58	Reports of inspectors, deaths, 142; reports of chiefs, deaths, 641.
Ceylon:				
Colombo.....	Oct. 30-Nov. 5....	1		Rodent plague, 2.
India:				
Bombay.....	Oct. 23-Nov. 12...	3	2	574 deaths out of 813 cases of plague reported in surrounding territory.
Karachi.....	Nov. 6-19.....	1	1	
Madras Presidency.....	Nov. 13-26.....	600	392	
Rangoon.....	Oct. 1-Nov. 19....	53	50	
Mexico:				
Tampico.....				Dec. 18-24, 1921: Infected rodents found, 2; total, Jan. 1-Dec. 24, 1921; infected rodents, 319.
Vera Cruz.....				One infected rodent caught Dec. 5 1921.
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 9-Nov. 5....		2	
Siam:				
Bangkok.....	Oct. 23-Nov. 5....	1	1	
Straits Settlements:				
Singapore.....	Nov. 6-12.....	2	2	

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from July 2 to Dec. 30, 1921, see Public Health Reports for Dec. 30, 1921. The tables of epidemic diseases are terminated semiannually and new tables begun.

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

Reports Received from Dec. 31, 1921, to Jan. 6, 1922—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Bolivia:				
La Paz.....	Aug. 1-Oct. 31....	42	28	
Brazil:				
Rio de Janeiro.....	Nov. 13-26.....	4	2	
Sao Paulo.....	Oct. 31-Nov. 20....	2		
British East Africa:				
Uganda.....	Aug. 1-Sept. 30....	7		Reports of inspectors, cases, 4.
Canada:				
Manitoba—				
Winnipeg.....	Nov. 20-Dec. 3....	2		
New Brunswick—				
Charlotte County				
St. Stephen.....	Dec. 11-17.....	2		Dec. 17, 1921: 31 cases not previously reported, occurring at Andersonville and Blacks Harbor.
Ontario—				
Ottawa.....	do.....	17		
Toronto.....	do.....	1		
Quebec—				
Montreal.....	do.....	1		
Saskatchewan—				
Saskatoon.....	Dec. 1-18.....	6		
Chile:				
Valparaiso.....	Oct. 23-Nov. 26....		34	
China:				
Hankow.....	Nov. 13-19.....	2		
Shanghai.....	Oct. 31-Nov. 6....	3		
Colombia:				
Cartagena.....	Nov. 22-28.....		1	
Cuba:				
Antilla.....	Dec. 12-18.....	1		At Preston.
Dominican Republic:				
San Pedro de Macoris.....	Nov. 20-26.....	5		At present there is an estimate of 500 cases of smallpox in the district of Macoris; of this amount 50 are within the city limits.
India:				
Bombay.....	Oct. 23-Nov. 12....	1	1	
Calcutta.....	Oct. 23-29.....	1	1	
Do.....	Nov. 6-12.....	2		
Madras.....	Nov. 13-26.....	22	8	
Rangoon.....	Oct. 1-Nov. 19....	2		
Italy:				
Genoa.....	Nov. 10-20.....	1		
Messina—				
Messina.....	Nov. 28-Dec. 4....	1		
Pettineo.....	Nov. 14-20.....	1		
Do.....	Nov. 28-Dec. 4....	1		
Mexico:				
Chihuahua.....	Dec. 5-11.....		1	
Portuguese East Africa:				
Lourenco Marques.....	Oct. 1-Nov. 5....	2	4	
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 9-Nov. 5....		3	
Russia:				
Esthonia.....	Oct. 1-31.....	20		
Serbia:				
Belgrade.....	Oct. 2-Nov. 26....	16	4	
Siam:				
Bangkok.....	Oct. 23-Nov. 5....	1		
Spain:				
Malaga.....	Nov. 1-30.....		36	
Seville.....	Nov. 16-29.....		1	
Straits Settlements:				
Singapore.....	Nov. 6-12.....	5	1	
Tunis:				
Tunisia.....	Nov. 26-Dec. 9....	10	7	

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

Reports Received from Dec. 31, 1921, to Jan. 6, 1922—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Bolivia:				
La Paz.....	Aug. 1-Oct. 31....	83	65	
Chile:				
Valparaiso.....	Oct. 23-Nov. 26....		6	
China:				
Harbin.....	Nov. 7-13.....	1		
Egypt:				
Alexandria.....	Nov. 19-25.....	2		
Cairo.....	Oct. 1-14.....	2	1	
Russia:				
Esthonia.....	Oct. 1-31.....	14		
Serbia:				
Belgrade.....	Oct. 2-Nov. 26....	3	2	
Turkey:				
Constantinople.....	Nov. 20-26.....	4		
Union of South Africa:				
Cape Province—				
East London.....	Oct. 30-Nov. 5....	1		

YELLOW FEVER.

Mexico:				
Jalisco—				
Las Penas.....	Dec. 19.....			Yellow fever has been reported present; about 50 miles northwest from Manzanillo.