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COLLECTION OF MORBIDITY DATA AND OTHER SANITARY INFORMATION BY THE UNITED STATES PUBLIC HEALTH SERVICE.

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It is quite natural that, in the evolution of its various public-health functions, the Public Health Service has become the central clearing agency for the United States for the collection and distribution of morbidity statistics and general sanitary information. value in this respect, and it is admitted that much is still to be desired, has been brought about through the continually increasing cooperation of State and city health authorities no less than as a result of the efforts of the officers of the Public Health Service in making the information that is collected, compiled, and published of value to the health officers, and, therefore, their cooperation An important point to be borne in mind in worth while to them. considering the development of the collection of morbidity statistics for the United States is that the Federal plan has been almost entirely dependent upon the cooperation of the State and local health authorities, the degree of success and the extent of the work varying with that cooperation and the success and completeness of reporting in the various States and cities.

The following are two important constitutional principles in the development of the functions of the United States Public Health Service: First, that the Federal Government may exercise only the powers clearly granted to it by the Constitution, and, second, that where the Constitution clearly grants a power to the Federal Government, the action of that Government in the exercise of such a power is binding upon the States, even in case of conflict between National and State law. In other words, the Federal Government is a Government of enumerated powers; and where no power is granted it by the Constitution, the presumption is in favor of that power being lodged in the States. It is generally known that the health powers of the Federal Government have not come through its constitutional authority to provide for the common defense and general welfare. but through its power to lay and collect taxes, duties, etc., and the power to regulate commerce.

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It is especially to be noted, however, that whereas some of the public-health activities of the United States Public Health Service in its relation to the States have been based on the fundamental constitutional principles noted, no Federal legislation has been possible requiring the reporting of morbidity data to the Public Health Service, the development of which, as far as the Federal Government is concerned, has depended almost entirely upon the voluntary support and aid rendered by the State and city departments of health. There has, however, been ample Federal legislation authorizing the Public Health Service to collect and publish morbidity reports and sanitary information, and it is under the authority of this legislation that the Division of Sanitary Reports and Statistics functions.

In considering the question of the cooperation of the States in this matter, we must not lose sight of the duties and obligations of the Public Health Service, under acts of Congress, that are not necessarily cooperative and do not depend on State health work, such as national quarantine, the prevention of interstate spread of certain diseases, and the carrying out of treaty obligations. Under the international sanitary convention signed at Paris, January 17, 1912, the United States is obligated to furnish to the other signatory powers information as to the sanitary conditions in the United States. The collection of morbidity reports is, therefore, a Federal obligation as well as a State and local one. As a Federal obligation, however, it is not an interference on the part of the National Government with the police powers of the States; but it is obvious that these functions can best be performed in cooperation with State and local health authorities.

The Public Health Service has developed out of the Marine Hospital Service, which was created in 1798 by an act passed for the "relief of sick and disabled seamen." But even before this time, Congress had taken cognizance of health matters and had passed a law (April 3, 1794) providing that—

"Whenever Congress is about to convene, and from the prevalence of contagious sickness, or the existence of other circumstances, it would, in the opinion of the President, be hazardous to the lives or health of the Members to meet at the seat of government, the President is authorized, by proclamation, to convene Congress at such other place as he may judge proper."

In 1799 the first Federal quarantine law was passed, requiring that "The quarantines and other restraints established by the health laws of any State * * * shall be duly observed by officers of the customs revenue of the United States * * *." In 1832 an act authorizing the use of the Federal revenue cutters to enforce State quarantine and health regulations was passed. In the years following, various laws were passed by Congress enlarging the scope

of the Marine Hospital Service and broadening its powers regarding its cooperation with State and local health authorities in the control of disease, but not until the act of April 29, 1878, did Congress make any provision for collecting morbidity data, and then only for information from the American consuls to be used in connection with quarantines. This act, among other things, provided as follows:

"That whenever any infectious or contagious disease shall appear in any foreign port or country, and whenever any vessel shall leave any infected foreign port, or, having on board goods or passengers coming from any place or district infected with cholera or yellow fever, shall leave any foreign port, bound for any port in the United States, the consular officer or other representative of the United States at or nearest such foreign port shall immediately give information thereof to the Supervising Surgeon General of the Marine Hospital Service, and shall report to him the name, the date of departure, and the port of destination of such vessel; and shall also make the same report to the health officer of the port of destination in the United States, and the consular officers of the United States shall make weekly reports to him of the sanitary condition of the ports at which they are respectively stationed * * *."

No appropriation was made in this act, however, for the collection or publication of morbidity data; but the existing Government machinery (consuls, customs officials, and Marine Hospital Service) was utilized and abstracts were prepared from the weekly consular sanitary reports and forwarded with other pertinent information to collectors of the customs and health authorities. These abstracts were titled "Bulletins of the Public Health." Later in the same year, December 21, 1878, \$50,000 was appropriated for the investigation of "the origin and causes of epidemic diseases, especially vellow fever and cholera, and the best method of preventing their introduction and spread in the United States." Not until the sundry civil appropriation act of March 3, 1879, was a specific appropriation made for the collection and publication of morbidity data. This act provided: "* * * To meet the expenses of collecting the data upon which to prepare bulletins of health, to be issued from the office of the Surgeon General of the United States Marine Hospital. \$5,000, under direction of the Secretary of the Treasury; to be paid out of the permanent appropriation for the above service."

Another act of Congress of March 3, 1879, established a National Board of Health, the duties of which were "to obtain information upon all matters affecting the public health, to advise the several departments of the Government, the executives of the several States, and the Commissioners of the District of Columbia, on all questions submitted by them, or whenever in the opinion of the board such advice may tend to the preservation and improvement of the public health." By the act of June 2, 1879, it was directed to "cooperate with

and, so far as it lawfully may, aid State and municipal boards of health in the execution and enforcement of the rules and regulations of such boards to prevent the introduction of contagious or infectious diseases into the United States from foreign countries and into one State from another." This act also imposed upon the National Board of Health the duty of obtaining "information of the sanitary condition of foreign ports" through weekly reports from the American consuls, and, from State and municipal sanitary authorities throughout the United States, weekly reports of sanitary conditions and information of other conditions affecting the public health. It was specified that this latter was to be done by means of the "voluntary cooperation of State and municipal authorities."

The act of February 15, 1893, provides, among other things, as follows:

"* * and the Secretary of the Treasury shall also obtain through all sources accessible, including State and municipal sanitary authorities throughout the United States, weekly reports of the sanitary condition of ports and places within the United States, and shall prepare, publish, and transmit to collectors of customs and to State and municipal health officers and other sanitarians weekly abstracts of the consular sanitary reports and other pertinent information received by him."

In 1902, in order to secure uniformity in the registration of morbidity statistics, Congress enacted a law directing the Surgeon General to provide forms for the collection and compilation of such data.

Forty-six numbers of the abstracts, or "Bulletins of the Public Health," had been issued—July 13, 1878, to May 24, 1879—when the law creating the National Board of Health transferred this function to that new agency. On the discontinuance of the National Board of Health in 1883, the Marine Hospital Service resumed the publication of these weekly bulletins under the new title of "Abstract of Sanitary Reports," the first number of which appeared January 20, 1887. Publication of morbidity data was continued weekly under this title until December 27, 1895. With Volume XI, number 1, issue of January 3, 1896, the title was changed to "Public Health Reports," and since that date the Public Health Reports has been the medium of the Public Health Service for the publication of current morbidity data and other sanitary information.

Morbidity and Mortality Reports.

The first morbidity reports collected by the Public Health Service were those received from the consuls and related principally to yellow fever, cholera, plague, and smallpox. These were published as short paragraphs in text form in the weekly "Bulletins of the Public Health." Gradually, other diseases were included and

morbidity data for cities and States were received, and morbidity and mortality tables were compiled. As better reporting has developed in the cities and States, the information furnished the Public Health Service by State and municipal health authorities has increased in volume and completeness, and therefore in value. The reports collected in 1888, were meager, but they have increased in volume and improved in reliability up to the present time, when the Public Health Service is receiving reports of some kind from 568 cities out of 767 in the United States with a population of 10,000 or more, from practically all of the States, from the insular possessions, and from American consuls and medical officers of the Public Health Service in foreign ports. At the present time practically the total population of Continental United States is covered by morbidity or mortality reports of some kind and of some degree of regularity.

The current reports include weekly telegraphic or prompt mail reports received regularly from 37 States and the District of Columbia, weekly reports from approximately 560 cities of 10,000 population or over, and the reports of the American consuls and medical officers stationed in foreign countries. In addition to these reports received directly by the Public Health Service, there is also published in Public Health Reports a weekly "health index," based on mortality statistics compiled each week by the Bureau of the Census, giving the annual mortality rates and the infantile mortality rates for approximately 70 large cities with a combined population of approximately 30,000,000 persons. The above reports contain the latest available information.

It is realized that, because of some delay in the publication (sometimes due to delay in receipt) of these reports, they are not as valuable to health officers as they would be if they could be issued more promptly. So far it has not been possible to lessen the period of time between the receipt of the information and the issuance of it in printed form in Public Health Reports. There seems to be no doubt, however, of the value of these data, even though publication is somewhat delayed; and the Public Health Service is under obligation to publish all official morbidity reports that are received, even though they be too late for immediate use by the health officers. The printing of such reports is required by treaty obligations and by Federal law, and the data are made available for use at later dates for statistical purposes and furnish a comparative basis for future improvement.

The following is a detailed statement of the morbidity and sanitary data and other pertinent information collected and published at the present time by the Public Health Service, through the Division of Sanitary Reports and Statistics.

Current morbidity reports.—The following constitute the current reports that are published each week in Public Health Reports:

- (1) Weekly telegraphic reports from State health officers.
- (2) Weekly mail reports from city health officers.
- (3) Weekly consular reports.
- (4) Telegraphic reports, in case epidemic or unusual conditions prevail, from State health officers, United States Public Health Service officers, and American consuls.

Monthly reports.—Monthly morbidity reports of the notifiable diseases are furnished by the State health officers on forms agreed upon by resolutions adopted by the Tenth Annual Conference of State and Territorial Health Authorities with the Public Health Service in Washington, June 1, 1912, and subsequent annual conferences. A brief summary of these reports is published each week as they are received, and they are later compiled by quarterly periods and published in Public Health Reports. No statistical analysis is made of any of these current or monthly reports; they are merely compiled and published.

Annual summaries.—Annual morbidity and mortality summaries of the reports of notifiable diseases are received from the States and cities. These data for the States are summarized for certain diseases, the case rates and death rates being computed for the total population for which reports are received. The data are also published in tabular form, under each disease, by States, giving the monthly prevalence, medians, case rates, death rates, and case fatality rates. The medians are those for a period of years and are given for purposes of comparison.

Similar data for cities are issued in two separate compilations, one for cities having 100,000 population or more and the other for cities having from 10,000 to 100,000 population. The statistical treatment of the data for cities is similar to that for States, case, death, and case fatality rates being computed.

The data for States for 1922 included the following diseases:

Anthrax. Cerebrospinal meningitis.

Cerebrospinal meningit Chicken pox.

Dengue.

Diphtheria.

Gonorrhea. Influenza.

Malaria. Measles.

Mumps.

Pellagra.
Pneumonia (all forms).

Poliomyelitis.
Rabies in animals.

Rabies in man.

Rocky Mountain spotted fever.

Scarlet fever.
Septic sore throat.

Smallpox. Syphilis.

Tuberculosis (all forms and pulmonary).

Typhoid fever.
Typhus fever.

Whooping cough.

The following table shows the States (including the District of Columbia and insular possessions) for which morbidity and mortality data were received for 1922:

Morbidity.	Mortality.	Morbidity.	Mortality.
Alabama	. Alabama.	Nebraska	
Arizona	Arizona.	Nevada	. Nevada.
Arkansas		New Hampshire	·
California	California.	New Jersey	New Jersey.
Colorado		New Mexico	
Connecticut		New York	
Delaware	Delaware.	North Carolina	
District of Columbia	District of Columbia.	North Dakota	
Florida	Florida.	Ohio	
Georgia		Oklahoma	. Oklahoma.
Hawaii		Oregon	. Oregon.
[daho		Pennsylvania	Pennsylvania.
Illinois	Illinois.	Philippine Islands 2	. Philippine Islands.
Indiana	Indiana.	Porto Rico	Porto Rico.
lowa	Town	Rhode Island	1
Kansas		South Carolina	South Carolina.
Kentucky	Kentucky	South Dakota	
Louisiana	Louisiana.	Tennessee	Tennessee.
Maine		Texas	
Marvland		Vermont	
Massachusetts	Massachusetts.	Virginia	
Michigan		Washington	Washington.
Minnesota		West Virginia.	West Virginia.
Mississippi		Wisconsin	Wisconsin.
Missouri		Wyoming	
Montana			

¹ Data not given by months.

These compilations for States have been published annually since 1913.

The data for large cities for 1922 included the following diseases:

Anthrax.

Cerebrospinal meningitis. Chicken pox.

Pneumonia (all forms).

Dengue. Diphtheria.

Influenza.

Malaria. Measles.

Mumps. Pellagra. Poliomyelitis.

Rabies in animals.

Rabies in man. Scarlet fever. Septic sore throat.

Smallpox.

Tuberculosis (all forms and pulmonary).

Typhoid fever.
Typhus fever.

Whooping cough.

The total population covered in these cities was approximately 30,000,000. These compilations have been issued annually since 1912.

The data for smaller cities, between 10,000 and 100,000, for 1922 have not yet been published, as the estimates of population have not yet been made available. The reports from cities of this class for 1921 included practically all cities which had records of morbidity from communicable diseases of value for statistical purposes. The following diseases were included:

Anthrax.

Cerebrospinal meningitis.

Diphtheria.
Influenza.
Malaria.

Measles.

Poliomyelitis (infantile paralysis).

Rabies in animals. Rabies in man. Scarlet fever. Smallpox.

Tuberculosis (all forms and pulmonary).

Typhoid fever.
Typhus fever.

Pellagra.
Pneumonia (all forms).

² Data given by quarters only.

These data for small cities have also been compiled and issued annually since 1912.

The annual State morbidity and mortality summaries have grown in size from a pamphlet of from 16 to 20 pages to over 100 pages, representing increased volume of reports and fuller statistical treatment.

Foreign reports.—The American consuls stationed throughout the world report by cable the outbreak of such diseases as cholera, plague, and yellow fever at new foci in their respective jurisdictions, or any unusual epidemic conditions, and report weekly by mail a statement of the number of cases reported of and deaths registered from the more important communicable diseases.

Medical officers of the Public Health Service stationed outside continental United States report immediately by telegraph the first reported occurrence of cases of cholera, yellow fever, plague (human or rodent), or of an unusual outbreak of any communicable disease dangerous to the public health at or in the general vicinity of the place at which they may be stationed. Through sanitary treaties, the Governments signatory thereto are obligated to give prompt notification to the other signatory Governments whenever such diseases as cholera, plague, or yellow fever occur within their respective countries. All of this information is published weekly in the Public Health Reports.

Sanitary Legislation and Other Information.

Sanitary legislation.—The laws and regulations adopted by the States and the ordinances and regulations adopted by municipalities on matters relating to the public health are obtained as soon as possible after adoption through the State or municipal health departments, and published. The data for States are compiled by calendar years and arranged according to States. The data for municipalities are also compiled by calendar years, but the legislation is arranged according to the subject dealt with.

Court decisions on matters relating to the public health are abstracted and published currently in Public Health Reports.

Other information.—The Division of Sanitary Reports and Statistics also compiles separate annual directories of State health authorities, giving information as to appropriations and publications, of city health authorities in cities of 10,000 or more population, and of whole-time county health officers.

Sources of information.—The information regarding State health legislation is first secured by checking the session laws of the different States in the library, usually the Supreme Court Library, and selecting those laws relating to the public health. A request is then made to the State health officers for those particular laws. If the State health officer is unable to furnish them or does not do so, a request is made of the Secretary of State, and if they are not supplied by him they must be copied from the session laws in the library.

The regulations of the State departments of health are secured from the State health officers. At the beginning of each year a circular letter is sent out to them requesting copies of the regulations passed or adopted during the preceding calendar year.

Copies of the public health ordinances and regulations adopted by cities of 10,000 or more population are secured from the city health officers, to whom a request is also sent out at the beginning of each year.

Court decisions are secured by checking the current monthly digests.

Information regarding the directory of State health authorities as well as that of whole-time county health officers is also furnished by the State health officers. The data regarding municipal health authorities are furnished by the cities.

From this brief outline of the collection of morbidity data and other information it can readily be appreciated to what extent the Federal Public Health Service is dependent upon the support rendered by the State and city health authorities themselves.

Value of Morbidity Reports.

For several years the Public Health Service has printed in italics over the section of Public Health Reports dealing with the prevalence of disease the axiomatic statement that "No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring." The necessity for securing prompt reports of cases of communicable diseases for the protection of the health of the citizens of a community, a State, or even an entire country has passed the controversial period and become an accepted, self-evident truth. The modern development in the means of transportation and the consequent increase in the amount and rate of travel, greatly facilitating the rapid and extensive dissemination of such diseases, have accentuated this necessity, and as one result, Federal and State laws and regulations governing the movement of persons infected with communicable diseases, and State laws requiring the notification of the occurrence of certain diseases, have been enacted.

Although legal quarantine restrictions have been imposed for a great many years, laws requiring the notification of the occurrence of cases of communicable diseases are of comparatively recent origin. At this time, however, in every State of the United States there are laws or regulations requiring the reporting of certain diseases to officials whose duty it is to record and act upon the information given. In some States the diseases required to be reported are included in a general designation, such as "contagious or infectious diseases dangerous to the public health," or "occupational diseases." In

others each notifiable disease is specified. The number of diseases reportable varies in the different States.

The value of morbidity statistics, especially of the preventable communicable diseases, is recognized not only by all persons who are actually engaged in public health work, but also by members of the medical profession. Effective results in public-health work necessarily depend largely upon the use of information obtained from the knowledge of the time of occurrence, the degree of prevalence, and the geographic distribution of these diseases. The ability to control and prevent such diseases and the degree of protection of the health of a community vary directly according to prompt and adequate notification. Each case of a communicable disease constitutes a focus from which it may spread, and an early knowledge of its occurrence and locality of occurrence is essential to prevent its spread. To prevent noncommunicable but preventable diseases, a knowledge of the occurrence of cases and of conditions under which they occur is likewise necessary in order to combat them successfully. Knowledge obtained from detailed morbidity data is the very foundation of public-health systems and is essential to the practical application of preventive medicine by education, sanitation, and quarantine. For the medical profession, statistics on the incidence of disease have a particular value. In studying the etiology and epidemiology of a particular malady, information regarding its geographical occurrence, and the age, sex, race, and other conditions of life most affected by it. are essential. Much of the information in the medical student's text book has been derived from hospital records.

Completeness and Accuracy of the Reports and Difficulties in Collecting the Data.

It is unnecessary to call attention to the difference in the completeness of reporting with respect to the different communicable diseases and with respect to different localities. This factor is so large and so variable that in publishing the figures reported and the annual rates computed from them, the Public Health Service always includes a note of caution against making comparisons. A relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department is active and that the cases of the disease are being well reported by the practicing physicians. It does not necessarily mean that the disease is more prevalent than in other localities. A high fatality rate may mean that the disease was unusually virulent, that the physicians did not treat the disease in that locality with the success usual elsewhere, or that the practicing physicians did not report all of their cases. And, on the other hand, an unusually low fatality rate may be due to the fact that the disease

was unusually mild, that the physicians treated it with unusual success, that the practicing physicians reported their cases satisfactorily, or that the registration of deaths was incomplete or the assignment of the causes of death inaccurate.

The first and most important link in the chain of morbidity statistics is, obviously, that of getting the physicians to report his cases. There are three important means that have been employed to secure these reports: Laws providing penalties for failure to report, pecuniary inducement, and the education of physicians as to their duty to the public and to their profession. Of these, the last would appear to approach more nearly the ideal measure. When it is shown that the reporting of cases of communicable diseases is essential for the welfare of the public and, at the same time, a contribution to the advancement of science, probably the great majority of physicians will gladly accept the added burden and report their cases as provided by law, prompted by a sense of duty rather than by a fear of the enforcement of a penalizing statute. Moreover, the privilege to practice medicine conferred by the State carries a concomitant obligation on the part of the physician, in the exercise of that privilege, to render such service to the State as may be required for the well-being of its citizens; and as the necessary information regarding the occurrence of cases of communicable diseases can be secured only through the practicing physician, the State has the right to require him to report or refuse him the privilege. The mere fact that the privilege of treating the sick is sometimes granted to incompetent persons should not deter a physician from discharging his obligation.

The difficulties involved in the accuracy of morbidity reports with reference to diagnosis of cases of communicable diseases are not so great as those which confront the Bureau of the Census in dealing with mortality statistics, because of the large number of instances in which two or more causes of death are given. For statistical purposes, only one cause can be tabulated for each death, necessitating some method of selection which may considerably influence the resulting statistics. To this difficulty another is being added by the increasing number of persons who are legally qualified to practice the art of healing and sign death certificates, but who are not physicians. At the last meeting of the American Medical Association. in San Francisco, June, 1923, Dr. Paul A. Turner, director of health of the State of Washington, cited some instances of this coming under his observation on the Pacific coast. One practitioner of a certain cult gave as a cause of death, "acute indigestion and gases of stomach pressing against heart." Another gave this: "Primary -dropsy and complications; contributory-heart falior." The answer as to what test confirmed the diagnosis, was "urinalasis."

On further query he dealt in "subluxations" and the impairment of the "normal flow of vital energy." At another time, this same practitioner gave, as a cause of death, "Chronic soar throat and complications; contributory—heart disease."

While the Division of Sanitary Reports and Statistics does not have "subluxations" to contend with in its morbidity reports, it has to be constantly vigilant to detect erroneous reports before they are published. Some errors are obvious and are caught; others do not arouse suspicion, and pass to print. Eternal vigilance is none the less the price of accuracy than it is the price of liberty. The text of the statistician should be: "Prove all things; hold fast that which is good." Recently, in the annual morbidity and mortality summary for cities for 1922, one city reported 660 deaths from tuberculosis. The mortality rate was computed on this figure and published. It should have been 560, with a mortality rate of 0.92 instead of 1.09. The Public Health Service was called to task, but the blame for the mistake was finally placed on the "office boy" in the city health department. Although the equation of human liability to error in simple mechanical tasks, such as copying and checking figures, can be made small, its minimum can never be made equal to zero.

Frequently, cases of rabies are reported when what was meant was only "dog bite." "Typhus fever" is commonly reported for "typhoid fever," especially by consuls who are intending to record "typhus abdominalis." Whenever such report received from health officers in this country is suspicious or comes from a new focus, a letter is written asking for further information as to the correctness of the report and the possible source of infection. Recently a reply to such a query was received confirming the original report of three cases of typhus fever and giving the sources of the infection as follows:

Case 1: Wet weather spring.

Case 2: Not known.

Case 3: Bad sewage emptying into Blank Creek.

This health officer was an M. D.

In compiling the annual directory of city health officers, information is requested as to whether or not the official is a whole-time health officer, and this query is made on the blank form. The answer to one of these queries recently was: "No; my term expires December 31, 1923." This man also was an M. D.

Occasionally a city health officer, in reporting "anthrax in man," will scratch out the word "man" and substitute "woman." It is not definitely known whether this is due to the risibilities of the health officer or to his ignorance of the fact that the word "man" is used in the collective sense.

Improving Morbidity Reports.

In view of the continued increase in the volume, accuracy, and completeness of morbidity reports, the question of improving them and of making them of greater value increases in importance. Several means of improvement suggest themselves, e. g., improvement in completeness of the reports, securing them more promptly, getting fuller epidemiological data in the reports, and the creation of a morbidity registration area somewhat similar to the registration area for deaths of the Bureau of the Census. This latter may be considered rather as a means for improving morbidity reporting.

The idea of a morbidity registration area is not new. For several vears past the question has been taken up at the annual conference of State and Territorial health officers with the United States Public Health Service. For six or seven years the United States Public Health Service has been endeavoring to get a sufficient appropriation to start a registration area for morbidity. In 1914, with the purpose in view of furthering the cooperation between the Public Health Service and the State health authorities and improving morbidity reporting, the Public Health Service appointed collaborating epidemiologists for duty with a few of the State boards of health in States in which the State laws and regulations were such as to indicate that such action would be of mutual benefit. Later this plan was extended and assistant collaborating epidemiologists were appointed in local health jurisdictions. Appointments are made on recommendation of the State health officers. The remuneration is nominal. The plan involved in this scheme of collecting morbidity data is that physicians report to the assistant collaborating epidemiologists on duty at local health offices, who in turn report to the collaborating epidemiologist at the State board of health, who reports to the Public Health Service, which compiles and publishes the The Public Health Service supplies cards for these reports. At the present time there are 42 collaborating epidemiologists and 4,216 assistant collaborating epidemiologists on duty in 42 States. This plan has been considered a step toward the establishment of a morbidity registration area.

An important fundamental question in the establishment of a morbidity registration area is the measure of the degree of completeness of reporting which shall be used to determine the eligibility of a State or city for admission to the area. The admissibility to the census registration area for deaths is based on the assumption that it can be determined that the registration of deaths is 90 per cent of those which actually occur.

Doctor Fulton, of Maryland, has long taken an active interest in the question of a registration area for morbidity, and as far back as 1914 he began summarizing the experience of the States which at that time were having a considerable degree of success in the registration of current morbidity, with the purpose in view of getting at a reliable index of the effectiveness of notification laws and a measure of the actual notification for four diseases. Beginning with reports for the year 1912, Doctor Fulton summarized the following four diseases: Typhoid fever, scarlet fever, measles, and diphtheria. His idea was to use the apparent fatality rate. He found that the fatality rate for typhoid fever showed greater constancy than that for any of the other three diseases, and he believed that it could be used, or tried, at least, as a measurement to determine admissibility to a morbidity registration area.

Many of the details connected with establishing a morbidity area will, necessarily, have to grow and mature out of experience. At the Nineteenth Annual Conference of State and Territorial Health Officers with the United States Public Health Service, at Boston in 1921, Doctor Leathers, of Mississippi, said:

"There are a number of points in connection with working out a morbidity area—whether or not it should be done by counties or whether the entire State should be considered as the unit in getting into the morbidity registration area is a matter for consideration. Without going into it very carefully, it seems to me the county might be considered the unit rather than the entire State, because the problem of securing morbidity reports is different from that of securing reports of deaths and births. I can conceive of a very happy rivalry existing between counties in a State in getting reports. In concluding, I think this is the most important problem that is facing us at this time in health work. It is basic in health work to obtain reasonably accurate morbidity reports."

The present status of morbidity reporting is not entirely satisfactory, but it shows great progress and growth in the various States and cities during the past few years and reflects an increasing interest in this field and a cooperation of the State and city health authorities with the United States Public Health Service. In extending its function in this work, the Public Health Service desires the continuance of that cooperation and support, for it is only by such "teamwork" that success can be assured and the protection of the citizens of the United States can best be accomplished.

The Powers, Duties, and Policies of the Sanitary Water Board of the Commonwealth of Pennsylvania.

By W. L. Stevenson, Chief Engineer, Pennsylvania State Department of Health, and Secretary, Sanitary Water Board.

Eighteen years ago the Legislature of Pennsylvania created the State Department of Health and vested in the commissioner of health, jurisdiction over discharge of sewage through the "purity of waters act" (approved April 22, 1905, P. L. 260).

This act prohibits the discharge of any sewage to the waters of the State except—

(a) From private sewers in operation at the time of the passage of the act and where the commissioner of health has not ordered discontinuance of discharge.

(b) From public sewers in operation at the time of the passage of

the act and not subsequently extended.

(c) From public sewers constructed or extended subsequent to the passage of the act and where the public authorities having, by law, charge of the sewer system make application for a permit, and the governor, attorney general, and the commissioner of health unanimously agree that the general interests of the public health would be subserved and the commissioner of health issues a permit stipulating the conditions under which sewage may be discharged.

Fourteen years ago the legislature enacted another law intended to give State control over discharge of certain industrial wastes detrimental to fish life (sec. 16, act approved May 1, 1909, P. L. 353).

Section 100 of the "fish law" of 1917 (act approved July 28, 1917, P. L. 1215) prohibits the discharge to the waters of the State of any substance deleterious, destructive, or poisonous to fish unless every reasonable and practicable means has been used to abate and prevent pollution.

These and other relevant acts all relate to the control of stream pollution; but inasmuch as the purity of waters act referred to the public health, it was administered by the commissioner of health, and the industrial waste pollution detrimental to fish was administered by the commissioner of fisheries.

One of the principles of reorganization of the State government proposed by Governor Pinchot was the coordination of duties and authority having a common purpose, and to that end "The Administrative Code" approved June 7, 1923, created in the department of health the sanitary water board, to have jurisdiction over stream pollutions of all kinds.

¹Presented at the Conference on Pollution of Streams, held by the Engineers' Club of Philadelphia and the Philadelphia section of the American Society of Civil Engineers, Philadelphia, Pa., Oct. 16, 1923, and published in Engineers and Engineering, November, 1923, pp. 281-284.

This board consists of the secretary of health, as chairman, the secretary of forests and waters, the attorney general, the commissioner of fisheries, and the chairman of the public service commission.

The powers and duties of the sanitary water board include—

(a) The administration of the laws of the Commonwealth pro-

hibiting the pollution of the waters of the State.

(b) The study, investigation, and reporting upon ways and means of eliminating and preventing stream pollutions which are detrimental to the public health, the health of animals, fish or aquatic life, or to the recreational use thereof.

The principal advantages to be obtained from vesting all the antistream pollution laws in a board instead of the separate administration as heretofore, are uniformity of policy and the classification of streams to provide for the several kinds of uses of the waters of the State, and expediting action in cases involving the jurisdiction of the several departments concerned.

The sanitary water board has established a number of fundamental policies through the adoption of resolutions, the more important of which are given hereinafter as an appendix.

The first resolution adopted by the board approved certain policies of the department of health relevant to sewerage and stream control—the agreement made in 1922 between Pennsylvania and New Jersey relative to the Delaware River, and the joint policy of the departments of health and forestry relative to camping upon watersheds in the State forest lands used for public water supply.

The policies of the department of health approved as aforesaid include among other things, the following:

That streams which are used as sources of public water supply after filtration should, in addition to being reasonably clean, provide a raw water sufficiently low in organic and pathogenic bacterial content that it can be safely and reasonably economically purified for domestic purposes.

That streams which are used as sources of public water supply with only chlorination should be kept free from all artificial sewage pollution unless adequate assured long-time storage is used for the water supply, and in such cases the sewage effluent should be ade-

quately disinfected as a further safeguard.

Requirements made to restore sewage-polluted streams not used as sources of public water supply, or to maintain clean streams in a clean condition, should be begun at the head waters and progress down stream.

Requirements made to protect sources of public water supplies should be, in general and subject to local conditions, begun at the first source of sewage contamination above the waterworks intake and progress upstream.

The approved agreement between Pennsylvania and New Jersey is as follows:

"Uniform policy as to degree of treatment of sewage discharged into the Delaware River adopted by the Departments of Health of

the States of Pennsylvania and New Jersey.

"1. Sewage discharged into the Delaware River from the northern limits of the State of Pennsylvania and New Jersey to a line above the city of Easton and the town of Phillipsburg shall be treated to such an extent as to produce a clarified and oxidized effluent; and also, so far as legally possible, the State department of health will prevent the discharge of untreated industrial wastes

into this portion of the river.

"2. Sewage discharged into the Delaware River from a line above the city of Easton and the town of Phillipsburg to a line above the borough of Morrisville and the city of Trenton shall be treated to such an extent as to effect the removal of settleable matter by means of efficient sedimentation; provided, however, that in cases where such settled sewage may be discharged into this portion of the river that may prejudicially affect a water supply, the effluent shall be further treated to adequately safeguard the purified water supply obtained from the river; and further provided, that when plans for sewage treatment works are approved, where the sedimentation of sewage is the only treatment required under this policy, the approval shall be subject to the condition that means for the further purification of the tank effluent shall be installed when deemed necessary by the State department of health; and also, that so far as legally possible, the State department of health will restrict the discharge of untreated industrial wastes which might be a menace to public health or create a nuisance to either sight or smell.

"3. Sewage discharged into the tidal portion of the Delaware River, from and including Morrisville and Trenton and to and including Philadelphia and Camden, shall be treated by means of sedimentation and the effluent discharged through submerged outlets into deep water in the Delaware River; provided, however, that in cases where such settled sewage is or would be discharged into the said tidal portion of the Delaware River at such a distance above or below a waterworks intake that it may prejudicially affect such water supply, the effluent shall be further treated to adequately safeguard the purified water supply obtained from the river; and further provided, that when plans for sewage treatment works are approved, where sedimentation of sewage is the only treatment required under this policy, the approval shall be subject to the condition that means for the further purification of the tank effluent shall be installed when deemed necessary by the State department

of health.

"3-A. From data now available it is considered that the discharge of only settled sewage into the aforesaid tidal portion of the Delaware River within 2 miles of a waterworks intake of an efficient

filtration plant may prejudicially affect such water supply.

"4. In case the said point of sewage discharge is from one State and the said waterworks intake is in the other State, so that the sewage effluent while discharged within the aforesaid 2 miles would have to cross the river to reach the water intake, then before a decision is reached by the State department of health having jurisdiction over the discharge of sewage, the case shall be taken up with

the other State department of health for a careful determination of the probability of the discharge of only settled sewage prejudicially affecting the water supply.

"Adopted by the Department of Health, Commonwealth of Pennsylvania, July 7, 1922.

(Signed)

"EDWARD MARTIN. "Commissioner of Health.

"Adopted by the Department of Health of the State of New Jersey, July 13, 1922.

(Signed)

"J. C. PRICE, "Director of Health."

The eighth resolution of the sanitary water board adopted August 8, 1923, for classification of streams, is as follows:

Whereas the degree of pollution of the waters of the State varies widely from the pristine purity of a small stream flowing through a virgin forest to the grossly polluted stream draining a valley given over to intense municipal and industrial development, and

Whereas such differences in condition and the present and probable future use of the streams must be recognized in determining the required degree of treatment of sewage and industrial wastes, and

Whereas the natural powers of streams to inoffensively assimilate and dispose of polluting matters by dilution must be utilized so far as compatible with the general interests of the public in order to establish a practicable and economical program for stream control; therefore

Resolved, That the waters of the State be classified as follows:

RELATIVELY CLEAN AND PURE STREAMS.

CLASS "A."

Streams in their natural state probably subject to chance contamination by human beings but unpolluted or uncontaminated from any artificial source, hence generally fit for domestic water supply after chlorination, will support fish life and may be safely used for recreational purposes.

STREAMS IN WHICH POLLUTION SHALL BE CONTROLLED.

CLASS "B."

Streams more or less polluted, where the extent of regulation, control, or elimination of pollution will be determined by a consideration of (a) the present and probable future use and condition of the stream; (b) the practicability of remedial measures for abatement of pollution; and (c) the general interests of the public through the protection of the public health, the health of animals, fish, and aquatic life, and the use of the stream for recreational purposes.

Streams now so polluted that they can not be used as sources of public water supplies, will not support fish life, and are not used for recreational purposes, and also from the standpoint of the public interests and practicability, it is not now necessary, economical, or advisable to attempt to restore them to a clean condition; and further

Resolved, That all artificial pollution of Class "A" streams shall be prohibited, and any sewage or industrial wastes on the watershed shall be treated to such a degree that the effluent shall be practically free from suspended matter, nonputrescent, and disinfected, and that recreational use shall not be sanctioned within prejudicial influence of waterwork's intakes; and further

Resolved, That the degree of treatment of sewage and industrial wastes discharged into Class "B" streams shall be determined for each particular stream or portion thereof after consideration of the general interests of the public and the economics of the particular case; and further

Resolved, That sewage and industrial wastes may be discharged into Class "C" streams: Provided, however, That such discharge shall not create any public nuisance or menace to health.

This resolution establishes the policy that streams now relatively clean and pure shall be kept in that condition. No future pollution thereof will be permitted.

It also recognizes that, due to existing intense industrial development on certain watersheds, the streams thereof have become so polluted that they are now totally unfit for use as sources of public water supply, nor will they support fish life, and hence are practically set aside for the disposal of industrial wastes. The cost of construction and maintenance of works for the abatement of the pollution of such streams will far exceed the value of the benefits to be derived by the public through their restoration to a clean condition.

Therefore, efforts will not be made at this time to accomplish any more than the prevention of menace to the public health and creation of nuisance in streams which may be designated as Class "C."

The majority of the larger streams draining developed areas will naturally be found in the middle group and will be designated as Class "B."

The resolution recognizes the natural powers of streams to inoffensively assimilate a certain amount of polluting matter and that the use of the scientific method of disposal by dilution is essential to the success of any program for stream control because of the economics of the problem.

The usual requirement to be met in determining the pollution load which a stream can receive when considering disposal by dilution is the maintenance of the stream in a clean condition as measured by sight or smell.

But when the sanitary water board designates any stream as Class "B" it will also determine the degree of treatment of polluting matter, and this will be based upon the use and condition of the stream both at present and in the probable future, in order to compare the cost of treatment on the one hand with the value of the benefits to the public obtained through protection to sources of public water supplies, fish life, and recreational use of the stream.

The cooperation of municipalities and private persons and corporations with the State is essential to the success of the comprehensive program of the board for stream control, and hence a resolution has been adopted authorizing the secretary of health to notify all municipalities on the watershed of any stream that has been classified, as to the required degree of treatment of sewage.

Thus each municipality along the classified stream will know that as the means for abatement of pollution are progressively installed from the headwaters on downstream, they will benefit by the expenditures of their upstream neighbors, and in justice they must do likewise for other municipalities situated on downstream.

Existing law requires the issuance of a State permit before public sewers can be constructed, and provides penalties for unlawful discharge of sewage; hence, the sanitary water board, in administering the law, will both confer privileges and impose obligations upon municipalities.

The board has established the policy that good faith must be shown by municipalities in complying with requirements of sewage permits before they are granted further privileges or are relieved from penalties.

For extending the limits of cleanliness of streams whose headwaters are not now polluted, plans have been made to have such streams examined by State employees whose regular duty includes the traversing of them in order to ascertain the first source of pollution; and thereafter, if the board shall deem it expedient, means will be adopted to secure abatement.

In this way the cleanliness of headwater streams will be gradually extended and increase the available sources of public water supplies, benefit riparian owners along the banks, and provide more clean streams in the State for the pleasure of the public, who are learning the healthfulness and value of recreation in the open through camping, hunting, and fishing.

Various State officials and departments are constantly in receipt of complaints from the public concerning pollution of streams or the destruction of fish. Occasionally these complaints are concise and well founded, but generally they are vague and indefinite.

The board has therefore established the policy that only well-founded and concise complaints will be considered. Forms are sent to complainants in duplicate for furnishing the data, and the statements made must be sworn to. Upon receipt of the properly filled in complaint form charging violation of law against any person, firm, or corporation, the copy thereof is sent to the respondent, who is afforded opportunity to make abatement or to submit defense of the charge in the complaint.

After consideration of the formal complaint and the respondent's reply thereto, an investigation is made; and if violation of law is found and abatement is not made, prosecution is instituted.

The board has, by resolution, placed the matter of handling complaints relative to destruction of fish with the commissioner of fisheries, pursuant to section 501 of The Administrative Code.

The funds available are insufficient at this time to inaugurate any extensive investigations such as were conducted by the Royal Com-

mission on Sewage Disposal of Great Britain, who most thoroughly studied for many years the whole question of stream pollution.

However, many data are now available, and, in the regular field investigations made preliminary to issuance of waterworks and sewerage permits and for other purposes, the required information will gradually be accumulated for the classification of streams and determining degree of treatment of polluting matter.

The magnitude of the task confronting the sanitary water board may be seen when it is realized that 15 per cent of the 4,419 named streams of Pennsylvania have drainage areas of over 25 square miles and an aggregate length of 13,000 miles and, by proportion, it is probable that the total length of all named streams is about 100,000 miles. Also, it is estimated that the total average flow in Pennsylvania streams is at a rate of about 2,600,000,000 gallons an hour.

The sources of pollution are innumerable, diverse in character, and of both public and private origin—e. g., there are 974 municipalities in the State, of which only one-half have public sewer systems from which sewage or sewage effluent is discharged to the streams, also many towns have storm drains to which sewage connections have been made and countless private sewers discharge sewage. In addition to sewage, the board must also consider industrial wastes.

It has been estimated that stream pollutions may be caused from about 2,500 industrial places, representing a capital investment of over \$1,000,000,000 and yielding products valued at over \$1,500,-000,000 a year.

Hence the solution of the problem confronting the sanitary water board must be approached sanely and deliberately, with recognition of the financial aspects, so as successfully to carry out in an orderly and logical sequence a comprehensive, practicable program for stream control in the Commonwealth of Pennsylvania.

APPENDIX.

CERTAIN RESOLUTIONS OF THE SANITARY WATER BOARD, COMMONWEALTH OF PENNSYLVANIA.¹

APPROVING EXISTING POLICIES-DEPARTMENT OF HEALTH.

Whereas it will require time for the sanitary water board to establish policies relative to the classification of streams, degree of treatment of sewage, and similar matters, and Whereas it is necessary that public business shall be continued without undue delay, therefore

Resolved, That the sanitary water board approve the existing policies of the department of health concerning the classification of streams, degree of treatment of sewage, agreement made with the Department of Health of New Jersey in July, 1922, relative to the Delaware River, and the joint policy of the departments of health and forestry relative to camping on State forest land used as watershed for public water supply as the said policies are set forth in Exhibit HD 10 attached to the report of the engineers' committee dated July, 1923; and further,

¹ See also resolution in regard to Class "A," "B" and "C" streams.

Resolved, That the department of health be requested to make the necessary investigations and reports, and authorized to prepare sewerage permits in a cordance with the aforesaid policies.

INSPECTION OF CLEAN STREAMS.

Whereas the reclamation of the waters of the State should logically begin by regulation, control, or elimination of pollution at or near the headwaters of streams and then proceed progressively downstream with corrective measures, and,

Whereas the department of health, the department of forests and waters, and the board of fish commissioners have employees whose regular field duties include traversing the streams of the State; therefore,

Resolved, That the said departments and boards be requested to furnish the sanitary water board with the names and locations of streams which at their headwaters are known to be relatively clean and pure, and also with information concerning the location and character of the first source of pollution below the clean headwaters and the party deemed responsible for pollution.

NOTICE TO MUNICIPALITIES.

Whereas the sanitary water board has by resolution adopted August 8, 1923, provided for the classification of the waters of the State and for the principles to be used in determining the degree of treatment of sewage prior to its discharge; and

Whereas it will be helpful to municipalities to have knowledge concerning the required degree of treatment of sewage before beginning the preparation of plans of sewerage projects; therefore,

Resolved, That as the sanitary water board designates the class of any stream or portion thereof and determines the degree of treatment of sewage discharged therein, the secretary of health shall notify all municipalities situated on the watershed of the said stream or portion thereof concerning the said action of the board.

DESIGN DATA TO BE SUBMITTED.

Whereas it is necessary in the preparation of plans for a sewerage project to determine certain basic data, such as present and probable future population tributary to sewers, gauged or estimated rate of flow of sewage and storm water, estimated rate of infiltration of ground water, nominal retention and sludge capacity in sedimentation tanks, rates of application upon various kinds of filters, and other pertinent and relevant matters; and

Whereas tentative acceptance of the data prior to the preparation of detail plans would result in economy in the preparation of the said plans and minimize the requirements for revision in design; and

Whereas the submission of these data with the plans would facilitate and expedite the examination thereof; therefore,

Resolved, That the sanitary water board requests municipalities to direct their authorized engineers to confer with the bureau of engineering of the department of health during the preparation of plans of sewerage projects; and, further

Resolved, That the data upon which the design of sewerage projects is based and such relevant calculations as may be required by the said bureau shall be submitted as part of the application for issuance of sewerage permit.

EVIDENCE OF GOOD FAITH REQUIRED.

Whereas the act approved April 22, 1905 (P. L. 260), prohibits the discharge of sewage from municipal sewers except, inter alia, when a permit shall be duly issued therefor; and

Whereas the administrative code empowers the sanitary water board to authorize the granting of such permits; and

Whereas the records of the department of health show that many municipalities have not as yet complied with requirements of previously issued sewerage permits and decrees; and

Whereas there should be evidence of good faith on the part of the municipal authorities in complying with requirements heretofore made, before further privileges are granted by the State and the municipalities relieved from the penalties for unlawful discharge of sewage; therefore,

Resolved, That in cases where requirements of prior permits and decrees have not been fulfilled the sanitary water board will not favorably consider applications for discharge of sewage; and, further

Resolved, That in cases where the sanitary water board has determined that the sewage of any municipality should be treated, and a permit or decree issued requiring such treatment, permission to discharge sewage shall be conditioned upon good faith shown by the municipality in carrying out an approved program for the construction of the required sewers, works, and appurtenances needed to effect the treatment of the sewage.

COMPLAINTS IN RE FISH.

Resolved, That the matters involved in complaints about fish be referred by the chairman of the sanitary water board to the board of fish commissioners for investigation, where required, and further advice to the sanitary water board.

Resolved, That in all cases wherein complaints of stream pollution, in violation of the laws to protect fish and aquatic life, are brought to the attention of the board and wherein prosecution is ordered by the board, it shall be the duty of the commissioner of fisheries, unless otherwise ordered by the board, to cause prosecution to be brought by such employee of the board of fish commissioners as he shall designate on behalf of the department of health as the enforcement agent of the board, pursuant to section 501 of the administrative code.

ALGÆCIDES AND GERMICIDES.

Whereas at times the presence of alge in sources of water supply is the cause of offensive tastes and odors in the water as used by the consumers, which constitutes an indirect menace to the public health; and

Whereas bathing in streams tributary to reservoirs which are the source of unfiltered public water supplies constitutes a direct menace to the public health; and

Whereas the usual remedial measures for these conditions are the reasonable use of copper sulphate as an agæcide, or the use of chlorine as a germicide; therefore,

Resolved, That the reasonable use, under the direction or with the sanction of the department of health, of copper sulphate as an algoride in reservoirs, lakes, or ponds used as sources of public water supply or of chlorine as a germicide in bathing pools on streams tributary to reservoirs which are the source of unfiltered public water supplies shall not be deemed a violation of the fish law of 1917.

MINE DRAINAGE.

Whereas the decision of the courts in the case of the Pennsylvania Coal Co. v. Sanderson appears to establish the right of coal mine operators to discharge mine drainage to streams even though it renders the waters thereof unfit for domestic purposes; and

Whereas the decision of the court of common pleas of Fayette County in the case of of the Mountain Water Supply Co. et al. v. The Melcroft Coal Co. et al. was in favor of the continuance of the discharge of mine drainage by the coal mine companies even though it affects the public interests; and

Whereas the latter case has been appealed to the Supreme Court and no decision vet rendered; therefore,

Resolved, That pending a final decision of this matter in the courts, the sanitary water board will defer action on the discharge of mine drainage to the waters of the State.

THE "NATIONAL BOARD BULLETIN."

A New Publication Issued by the National Board of Medical Examiners.

In order to have an official medium of its own through which it may inform all persons interested in its work and progress, the National Board of Medical Examiners is beginning the publication of the "National Board Bulletin," the first issue of which is dated October, 1923. The Bulletin is to be issued bimonthly. The initial number contains the following announcement of its purpose:

"In starting the publication of the Bulletin, the National Board of Medical Examiners recognizes the need of a medium through which its candidates, diplomates, subsidiary board members, and others interested may be kept more fully informed of its work and progress. Its aim will be to cover the news of the organization primarily, but if space permits it may include occasional items of particular interest to medical students and associates of the board which might not reach them through other news channels."

The first number presents a brief review of the origin and work of the National Board of Medical Examiners, founded in 1915 by Dr. W. L. Rodman, then president of the American Medical Association, and states its aims and purposes as follows:

"To establish a standard of examination and certification of graduates in medicine for the whole United States and its Territories, through which, by the cooperation of the State and Territorial boards of medical examiners, its diplomates may be recognized for licensure to practice medicine."

The constitution of the board provides that the members shall include the following: The Surgeon General of the United States Army, the Surgeon General of the United States Navy, the Surgeon General of the United States Public Health Service; each of the surgeons general shall appoint 1 additional representative of his respective service; 3 members to be appointed by the Federation of State Medical Examining Boards; 12 members to be appointed at large.

During the past year the following-named seven State boards of medical examiners have perfected arrangements for the acceptance of the certificate of the national board, in lieu of their own examination of candidates for licensure: Illinois, Maine, Massachusetts, New York, South Carolina, Tennessee, and Texas. In Illinois, Massachusetts, New York, and Texas it was necessary to amend the medical practice acts so as to give the State boards authority to take discretionary action. In the other States the present laws were sufficiently broad to permit recognition by direct action of the board.

Twenty-eight States now accept the national board's certificate. These States are Alabama, Arizona, Colorado, Connecticut, Delaware, Georgia, Idaho, Illinois, Iowa, Kentucky, Maine, Maryland, Massachusetts, Minnesota, Nebraska, New Hampshire, New Jersey, New

York, North Carolina, North Dakota, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Virginia, and Washington.

The National Board of Medical Examiners has set aside 50 cents of each registration fee to cover the candidate's subscription to the Bulletin. Subscriptions at the rate of 50 cents per year will also be received from its diplomates and other persons interested in the work of the board.

DEATHS DURING WEEK ENDED NOVEMBER 17, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended November 17, 1923, and corresponding week of 1922. (From the Weekly Health Index, November 20, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Nov. 17, 1923.	Corresponding week, 1922.
Policies in force	54, 844, 356	50, 649, 653
Number of death claims	9, 435	9, 492
Death claims per 1,000 policies in force, annual rate	9.0	8.8

Deaths from all causes in certain large cities of the United States during the week ended November 17, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 20, 1923, issued by the Bureau of the Census, Department of Commerce.)

•		ended 7, 1923.	Annual death rate per	Death	Infant mor- tality	
City.	Total deaths.	Death rate.1	1,000, corre- sponding	Week ended Nov. 17, 1923.	Corresponding week, 1922.	rate, week ended Nov. 17, 1923.2
Total	6, 933	12. 4	12.1	820	831	
Akron, Ohio. Albany, N. Y. Atlanta, Ga. Baltimore, Md. Birmingham, Ala.	34 69	8.3 15.1 16.1 13.9 16.0	6. 0 16. 2 16. 4 12. 0 10. 1	3 1 11 23 7	5 3 7 28 8	36 22 68
Boston, Mass. Bridgeport, Conn Buffalo, N. Y. Cambridge, Mass.	218 31 119	14.8 11.3 11.6 14.5	15. 1 12. 0 14. 3 11. 8	37 5 12	27 3 27 6	106 69 50 18
Camden, N. J. ³ . Chicago, Ill. ³ Cincinnati, Ohio. Cleveland, Ohio ³	23 576 108 171	9. 7 10. 4 13. 9 10. 0	16. 3 10. 0 13. 4 10. 4	3 90 17 26	7 65 6 26	50 81 112 71
Columbus, Ohio. Dallas, Tex. Denver, Colo. Des Moines, Iowa.	62 37 90 31	12. 4 10. 9 17. 3 11. 5	12.3 6.1 17.9	3 5 9	10 5 11	31
Detroit, Mich Duluth, Minn Eric, Pa Fall River, Mass.3	231 23 21 20	12. 1 11. 3 9. 7 8. 6	10. 5 8. 6 18. 6	40 2 2 5	32 3 6	80 46 41 71
Flint, Mich. Fort Worth, Tex. Grand Rapids, Mich. Houston, Tex.	19 17 23 34	8. 4 6. 2 8. 2 11. 4	10.7 9.5 9.1 10.1	4 3 2 3	5 3 2 2	79 32
Indianapolis, Ind. Jacksonville, Fla. Jersey City, N. J. Kansas City, Kans.	95 36 78 31	14. 5 18. 8 13. 2 14. 0	12. 0 17. 6 14. 0 10. 1	11 3 13 3	9 3 12 2	85 87 69
Kansas City, Mo.	94	13.9	13.9	12	15	

Annual rate per 1,000 population.

Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births. Deaths for week ended Friday, Nov. 17, 1923.

Deaths from all causes in certain large cities of the United States during the week ended November 17, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 20, 1925, issued by the Bureau of the Census, Department of Commerce.)—Continued.

	Week ended Nov. 17, 1923.		Nov. 17, 1923. death rate per		Deaths under 1 year.	
City.	Total deaths.	Death rate.	1,000, corre- sponding week, 1922.	Week ended Nov. 17, 1923.	Corre- sponding week, 1922.	rate, week ended Nov. 17, 1923.
Los Angeles, Calif	229 76	17. 9 15. 4	15.3 18.3	28 8	24 13	105 86
Lowell, Mass.	31	14.0	10.9	4	2	70
Lynn, Mass	20	10. 2		5	l	132
Memphis, Tenn	60	18.4	18.9	5	6	
Milwaukee, Wis	102	11.0	7.5	13	9	65
Minneapolis, Minn	91	11.6 17.6	9.9	7 3	9 5	38
Nashville, Tenn. ² New Bedford, Mass.	41 16	6.4	10.8 11.0	2	4	31
New Haven, Conn.	38	11.5	10.7	7	2	91
New Orleans, La	148	19. 1	18.1	15	11	
New York, N. Y	1,250	11.0	10.8	143	141	57
Bronx Borough	135	8.4	8.2	11	9	39
Brooklyn Borough	418	10.1	9.8	45	55	48
Manhattan Borough	584	13. 4 8. 4	12.8 9.4	78 6	68 7	76
Queens Borough	86 27	11.0	13.4	3	2	32 55
Newark, N. J.	88	10.5	13.5	ğ	15	42
Norfolk, Va.	29	9. 5	11.7	ĭ	ž	18
Oakland, Calif	51	11. 1	11.6	2	4	26
Omaha, Nebr	49	12.5	12.2	1	6	11
Paterson, N. J.	42	15.7	12.0	5 45	7	80
Philadelphia, PaPittsburgh, Pa	474 178	12. 9 15. 1	14.3 13.4	21	70 23	58 73
Portland, Oreg	70	13. 3	10.7	7	6	73 71
Providence R I	63	13.6	12.8	6	3	49
Richmond, Va	53	15. 3	14.3	ě	4	74
Rochester, N. Y	62	10. 2	11.5	5	14	39
St. Louis, Mo	246	16.0	12.5	20	7	
St. Paul, Minn.	56	12.1	12.8	5	. 8	46
Salt Lake City, Utah ²	28 72	11.6 20.3	20. 2 12. 9	2 17	10 8	33
San Francisco, Calif.	137	13.2	14.2	ió	8	60
Seattle, Wash	60	9.9	8.6	6	ĭ	53
Springfield, Mass	23	8.3	10. 1		4	29
Svracuse, N. Y	39	11.0	12.7	2 7 8	7	91
Toledo, Óhio	70	13.6	14.2		11	81
Trenton, N. J.	35	14.3	11.3	4	7	68
Utica, N. Y	38 127	19. 2 15. 1	15.0	5 13	18	106 74
Wilmington, Del.	28	12.4	10.4	5	7	102
Worcester, Mass.	43	11.7	13.6	4	8	46
Yonkers, N. Y.	20	9.7	9.9	5	6 1	108
Youngstown, Ohio	29	11.4	11.0	3	3	41
<u> </u>						

Deaths for week ended Friday, Nov. 16, 1923.

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.

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

Reports for Week Ended November 24, 1923.

ALABAMA.		CALIFORNIA.	
	ses.	Cerebrospinal meningitis:	ases.
Anthrax	1		
Chicken pox		Gilroy	. 1
Diphtheria		Long Beach	. 1
Influenza		Sacramento.	. 1
Malaria	65	San Francisco	
Measles		Diphtheria	
Pneumonia	73	Influenza.	. 28
Scarlet fever	40	Lethargic encephalitis:	
Smallpox	1	Los Angeles.	. 1
Tuberculosis	31	San Francisco	. 1
Typhoid fever	18	Measles	286
Whooping cough	15	Poliomyelitis:	
ARIZONA.		Kern County	. 1
Chicken pox.	2	Long Beach	. 1
Diphtheria.	3	Los Angeles	. 2
Measles.	13	Los Angeles County	. 2
Mumps.	1	Monrovia	
Scarlet fever.	16	Orange County	
Trachoma	10	Scarlet fever	223
Tuberculosis	15	Smallpox:	
Whooping cough.	1	Los Angeles	35
	•	Los Angeles County	20
ARKANSAS.	_	Scattering	27
Chicken pox	9	Typhoid fever	25
Diphtheria	30		
Influenza.			
Malaria	63	COLORADO.	
Measles	44	(Exclusive of Denver.)	
Mumps	2	(Dacidsive of Deliver.)	
Paratyphoid fever	3	Chicken pox	39
Pellagra	4	Diphtheria	35
Scarlet fever	21	Measles	172
Smallpox	10	Mumps	39
Trachoma	3	Scarlet fever	29
Tuberculosis	11	Tuberculosis	57
Typhoid fever	17	Typhoid fever	15
Whooping cough	26	Whooping cough	1
	/99		•

CONNECTICUT.		ILLINOIS—continued.	
	ases.	Diphtheria—Continued.	ases
Cerebrospinal meningitis	104	Kane County	. 1
Diphtheria	78	Madison County	. 1
German measles	. 1	St. Clair County	
Influenza	8	Scattering	
Malaria	. 1	Influenza. Lethargic encephalitis—Cook County	-
Measles		Measles	
Mumps	24 23	Pneumonia.	
Pneumonia (lobar)		Poliomyelitis:	
Scarlet fever	_	Cook County	
Septic sore throat	10	Rock Island County	
Smallpox	1	Stephenson County	. 1
Tetanus	1	Scarlet fever: Cook County	111
Tuberculosis (all forms)		La Salle County	
Typhoid fever	4 40	Scattering.	
Whooping cough	40	Smallpox.	
DELAWARE.		Tuberculosis	. 305
Chicken pox	5	Typhoid fever	. 69
Diphtheria:		Whooping cough	. 127
Wilmington	10	INDIANA.	
Scattering	4	Diphtheria	201
Measles	22	Influenza.	
Pneumonia	3 · 16	Measles.	
Scarlet fever	8	Pneumonia	. 6
Typhoid fever	2	Poliomyelitis—St. Joseph County	
Whooping cough	5	Scarlet fever	
		Smallpox	
FLORIDA.		TuberculosisTyphoid fever	
Diphtheria	26	1 y phota tever	. 12
	1	and the second s	
Influenza	6	IOWA.	
Influenza Malaria	13	Diphtheria	
Influenza	13 2	DiphtheriaScarlet fever	. 54
Influenza	13	Diphtheria	. 54 . 13
Influenza. Malaria. Pneumonia. Scarlet fever. Smallpox.	13 2 2	Diphtheria Scarlet fever. Smallpox Typhoid fever.	. 54 . 13
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever	13 2 2 6	Diphtheria Scarlet fever. Smallpox Typhoid fever. KANSAS.	. 54 . 13 . 3
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA.	13 2 2 6 2	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox.	. 54 . 13 . 3
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox	13 2 2 6 2	Diphtheria Scarlet fever Smallpox Typhoid fever KANSAS. Chicken pox. Diphtheria.	. 54 . 13 . 3 . 131 . 119
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria	13 2 2 6 2 8 27	Diphtheria Scarlet fever Smallpox Typhoid fever KANSAS. Chicken pox Diphtheria. German measles	. 54 . 13 . 3 . 131 . 119 . 8
Influenza Malaria Pneumonia. Scarlet fever Smallpox. Typhoid fever. GEORGIA. Chicken pox. Diphtheria. Hookworm disease	13 2 2 6 2	Diphtheria Scarlet fever Smallpox Typhoid fever KANSAS. Chicken pox. Diphtheria.	. 54 . 13 . 3 . 131 . 119 . 8 . 1
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria	13 2 2 6 2 8 27 6	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza Measles.	131 131 119 8 160
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles	13 2 2 6 2 8 27 6 2 15 184	Diphtheria Scarlet fever Smallpox Typhoid fever KANSAS. Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia	131 119 8 160 75
Influenza Malaria Pneumonia. Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps	13 2 2 6 2 8 27 6 2 15 184 4	Diphtheria Scarlet fever Smallpox Typhoid fever KANSAS. Chicken pox Diphtheria German measles Influenza Measles Mumps Pneumonia Poliomyelitis	131 119 8 160 75 10
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra	13 2 6 2 8 27 6 2 15 184 4	Diphtheria Scarlet fever. Smallpox Typhoid fever. KANSAS. Chicken pox Diphtheria. German measles Influenza Measles. Mumps. Pneumonia Poliomyelitis Scarlet fever.	131 119 8 1 160 75 10 2
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia	13 2 6 2 8 27 6 2 15 184 4 2	Diphtheria Scarlet fever. Smallpox Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza Measles. Mumps. Pneumonia Poliomyelitis Scarlet fever. Septic sore throat.	131 131 119 8 1 160 75 10 2 119 1
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Peneumonia Scarlet fever	13 2 6 2 8 27 6 2 15 184 4	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox.	131 1119 8 1 160 75 10 2 119 1
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox	13 2 6 2 8 27 6 2 15 184 4 2 17	Diphtheria Scarlet fever. Smallpox Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza Measles. Mumps. Pneumonia Poliomyelitis Scarlet fever. Septic sore throat.	131 1119 8 1 160 75 10 2 1119 1 1177
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever	13 2 2 6 6 2 8 8 27 6 2 15 184 4 2 17 11	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis.	131 1119 8 1 160 75 10 2 1119 1 1177
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever	13 2 2 6 2 8 8 27 6 2 15 184 4 2 17 11 2 9	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	131 131 119 8 1 160 75 10 2 119 1 11 77 25
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever	13 2 2 6 2 8 8 27 6 2 15 184 4 2 17 11 2 9	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	. 54 . 133 . 3 . 131 . 119 . 8 . 1 . 160 . 75 . 10 . 2 . 119 . 1 . 17 . 25 . 95
Influenza Malaria. Pneumonia. Scarlet fever Smallpox. Typhoid fever. GEORGIA. Chicken pox Diphtheria. Hookworm disease Influenza. Malaria. Measles. Mumps Pellagra. Pneumonia. Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough. ILLINOIS.	13 2 2 6 2 8 8 27 6 2 15 184 4 2 17 11 2 9	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis. Typhoid fever Whooping cough LOUISIANA. Cerebrospinal meningitis.	131 119 8 1 160 75 10 2 119 1 11 77 25 95
Influenza Malaria Pneumonia. Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILINOIS. Cerebrospinal meningitis:	13 2 2 6 2 2 8 8 27 6 2 15 184 4 2 17 11 2 9 2	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough LOUISIANA. Cerebrospinal meningitis. Diphtheria.	131 1119 8 1 160 75 10 2 119 1 117 77 25 95
Influenza Malaria Pneumonia. Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILLINOIS, Cerebrospinal meningitis: Cook County	13 2 2 6 2 8 8 27 6 2 15 184 4 2 17 11 2 9	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis. Typhoid fever Whooping cough LOUISIANA. Cerebrospinal meningitis.	544 133 3 1311 1198 1 1600 750 1219 111777 2595 331111
Influenza Malaria Pneumonia. Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILINOIS. Cerebrospinal meningitis:	13 2 2 6 2 8 27 6 2 15 184 4 2 17 11 2 9 2	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever. Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough. LOUISIANA. Cerebrospinal meningitis Diphtheria. Influenza. Malaria. Measles.	. 54 . 13 . 3 . 1311 . 119 . 8 . 1 . 160 . 75 . 10 . 2 . 119 . 1 . 11 . 77 . 25 . 95 . 3 . 3 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILINOIS. Cerebrospinal meningitis: Cook County Douglas County Franklin County Menard County	13 2 2 6 2 8 8 27 6 6 2 15 184 4 2 17 11 2 9 2 19	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough LOUISIANA. Cerebrospinal meningitis Diphtheria Influenza. Malaria. Measles. Pneumonia.	. 54 . 13 . 3 . 1311 . 119 . 8 . 1 . 160 . 75 . 10 . 2 . 119 . 1 . 11 . 77 . 25 . 95 . 3 . 3 . 11 . 13 . 13 . 13 . 14 . 15 . 15 . 15 . 15 . 15 . 15 . 15 . 15
Influenza Malaria Pneumonia. Scarlet fever Smallpox Typhoid fever GEORGIA. Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILINOIS. Cerebrospinal meningitis: Cook County Douglas County Franklin County Menard County Stephenson County Stephenson County	13 2 2 6 2 8 8 27 6 2 15 184 4 2 17 11 2 9 2 19	Diphtheria Scarlet fever. Smallpox Typhoid fever. KANSAS. Chicken pox Diphtheria. German measles Influenza Measles. Mumps. Pneumonia Poliomyelitis Scarlet fever Septic sore throat. Smallpox Tuberculosis. Typhoid fever Whooping cough LOUISIANA. Cerebrospinal meningitis Diphtheria. Influenza Malaria. Measles. Pneumonia Scarlet fever.	544 133 3 131 119 8 1 160 75 10 2 2 119 1 1 1 77 25 95 3 3 1 1 1 1 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Influenza Malaria Pneumonia Scarlet fever Smallpox Typhoid fever GEORGIA Chicken pox Diphtheria Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Scarlet fever Smallpox Tuberculosis (all forms) Typhoid fever Whooping cough ILINOIS. Cerebrospinal meningitis: Cook County Douglas County Franklin County Menard County	13 2 2 6 2 15 184 4 2 17 11 2 9 2 19	Diphtheria Scarlet fever. Smallpox. Typhoid fever. KANSAS. Chicken pox. Diphtheria. German measles Influenza. Measles. Mumps. Pneumonia. Poliomyelitis Scarlet fever Septic sore throat. Smallpox. Tuberculosis. Typhoid fever. Whooping cough LOUISIANA. Cerebrospinal meningitis Diphtheria Influenza. Malaria. Measles. Pneumonia.	54 13 3 131 119 8 1 160 75 10 2 119 1 11 77 25 95 3 31 11 13 33 4 9 10 10 10 10 10 10 10 10 10 10 10 10 10

MAINE.	MINNESOTA—continued.
Cases.	Cases.
Chicken pox	Scarlet fever
Diphtheria	Smallpox25
Measles	Tuberculosis
Pneumonia	Typhoid fever
Smallpox. 1	w nooping cough
Tuberculosis	MISSISSIPPI.
Typhoid fever	Diphtheria
Whooping cough 41	Scarlet fever 9
MARYLAND.1	Smallpox
Chicken pox	Typhoid fever
Diphtheria	MISSOURI.
Dysentery 1	<u> </u>
Influenza	Cerebrospinal meningitis 1 Chicken pox 79
Malaria 2	Diphtheria
Measles	Influenza. 8
Mumps	Measles
Paratyphoid fever	Mumps 22
Scarlet fever	Pneumonia 24
Septic sere throat	Poliomyelitis
Smallpox 1	Scarlet fever
Tuberculosis	Septic sore throat
Typhoid fever	
Whooping cough	Tetanus
MASSACHUSETTS.	Tuberculosis
	Typhoid fever
Chieken per	Whooping cough
Chicken pox	
Diphtheria	MONTANA.
German measles.	Diphtheria
Influenza 3	Poliomyelitis—Kalispell, R. D. 1 1 Scarlet fever. 24
Lethargic encephalitis 3	Scarlet fever
Malaria 1	Typhoid fever
Measles	2
Mumps	NEW JERSEY.
Ophthalmia neonatorum 15 Pellagra 1	Cerebrospinal meningitis 3
Pellagra	Chicken pox
Poliomyelitis	Diphtheria 150
Scarlet fever. 284	Influenza
Septic sore throat	Malaria2
Trachoma 2	Measles
Tuberculosis (all forms)	Pneumonia
Typhoid fever	Scarlet fever
Whooping cough 100	Smallpox2
MICHIGAN.	Trachoma 1
Diphtheria 208	Typhoid fever 10
Measles	Whooping cough
Pneumonia	
Scarlet fever	NEW MEXICO.
Smallpox	Chicken pox 12
Tuberculosis 250 Typhoid fever 27	Diphtheria
Typhoid lever	Influenza 3 Measles 84
	Measies
MINNESGTA.	Scarlet fever
Chicken pox	Septic sore throat
Diphtheria	Trachoma 13
Measles	Tuberculosis
Pneumonia 10	Typhoid fever 6
Poliomyelitis	Whooping cough
Week ended Friday.	

NEW YORK.	VERMONT.
(Exclusive of New York City and Buffalo.)	Cases.
(Exclusive of New 1 of a City and Dunaio.) Cases.	Chicken pox
*Cerebrospinal meningitis	Diphtheria 10 Measles 30
Diphtheria 287	
Influenza14	
Lethargic encephalitis 3	Dimanipox
Measles	Typhoid fever 2
Pneumonia 159	Whooping ceugh 83
Poliomyelitis	VIRGINIA.
Smallpox. 3	Poliomyelitis—Arlington County 1
Typhoid fever	
Whooping cough	WASHINGTON. Chicken pox. 92
NORTH CABOLINA.	Chicken pox
	Spokane
Chicken pox	Scattering 23
Diphtheria 155 German measles 3	Measles:
Measles 528	Asotin County 20
Ophthalmia neonatorum 1	Clarke County
Poliomyelitis1	Klickitat County
Scarlet fever	Seattle
Septic sore throat 4	Spokane
Smallpox 81	Stevens County 11 Yakima 26
Typhoid fever	Yakima
Whooping cough 334	Mumps. 18
OREGON.	Pneumonia. 2
Chicken pox 37	Scarlet fever:
Diphtheria30	Spokane
Measles	Tacoma
Mumps 2	Scattering
Pneumonia19	Smallpox:
Scarlet fever	Snohomish County
Smallpox	Spokane
Tuberculosis 6 Typhoid fever 2	Tuberculosis
Whooping cough	Typhoid fever
	Whooping cough
SOUTH DAKOTA.	
Chicken pox	WEST VIRGINIA. Diphtheria
Diphtheria	Scarlet fever. 37
Influenza	Typhoid fever 8
Pneumonia	
Poliomyelitis	wisconsin. Milwaukee:
Scarlet fever	Chicken pox
Smallpox 2	Diphtheria34
Tuberculosis	German measles 2
Whooping cough	Influenza 1
TEXAS.	Measles 3 Ophthalmia neonatorum 1
Anthrax1	Ophthalmia neonatorum 1 Pneumonia 6
Chicken pox	Poliomyelitis
Dengue	Scarlet fever
Diphtheria	Smallpox 2
Influenza	Trachoma
Measles	Tuberculosis
Mumps	Typhoid fever
Pneumonia	Whooping cough
Scarlet fever 22 Smallpox 2	Scattering: Cerebrospinal meningitis 4
Tuberculosis 37	Chicken pox
Typhoid fever 11	Diphtheria
Whooping cough	Influenza 18
1 Deaths.	

¹ Deaths.

wisconsin-continued.	WYOMING.
Scattering—Continued. Cases. Lethargic encephalitis 2 Measles 249 Pneumonia 15 Scarlet fever 231 Smallpox 19 Tuberculosis 25 Typhoid fever 7 Whooping cough 159	Cases. Chicken pox 7 Diphtheria 2 Influenza 1 Measles 38 Pneumonia 4 Scarlet fever 9 Typhoid fever 2

Reports for Week Ended November 17, 1923.

DISTRICT CF COLUMBIA.		NORTH DAKOTA.	
Cases	3.	C	ases.
Cerebrospinal meningitis	1	Chicken pox	. 16
Chicken pox	22	Diphtheria	. 45
Diphtheria 1	13	German measles.	. 1
	1	Measles	. 145
Measles	8	Pneumonia	. 4
Scarlet fever. 2	4	Scarlet fever	. 73
Smallpox	2	Smallpox	. 12
Tuberculosis 1	9	Tetanus	. 1
Typhoid fever	1	Trachoma	. 1
Whooping cough	0	Tuberculosis	. 9
		Typhoid fever	. 13
	- (Whooping cough	. 10

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.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
A ugust, 1923. Vermont		9	ļ	ļ	159		9	25	14	2
September, 1923. Vermont		24	ļ	ļ	126		11	36	7	6
October, 1923. Arizona Arkansas. Idaho. Illinois Iowa Maine. Maryland Minnesota. Mississippi New Jersey. North Dakota. Pennsylvania Rhode Island South Carolina Vermont Virginia. Washington Washington West Virginia Wisconsin.	1 3 4 3 5	19 110 32 1,114 230 63 278 447 417 569 56 1,507 95 421 36 874 109 356 719	142 194 1 47 4 565 42 1 1 546 32 47	28 10,516 4 30 343	14 81 363 27 94 77 812 285 421 262 1,037 77 33 302 713 388 41 817	265 1	7 59 3	25 48 49 768 220 68 296 1,039 67 242 183 1,389 59 22 36 337 178 340 736	1 10 3 28 18 132 8 12 27 35 35 8 50	16 121 7 259 13 13 196 65 148 87 12 392 9 48 2 2 200 75 285 46

RECIPROCAL NOTIFICATION, OCTOBER, 1923.

Cases of communicable diseases referred during October, 1923, to other State health departments, by departments of health of certain States.

Referred by—	Diph- theria.	Polio- myelitis.	Small- pox.	Tuber- culosis.	Typhoid fever.	Whoop- ing cough.
Illinois. Massachusetts.				23		
Minnesota		i	1	29	5	
New York	3 1	1	1		3	1

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923.

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Medis-n for pre- vious			City.	Median for pre-	Week ended Nov. 10, 1923.	
	years.	Cases.	Deaths.	_	vious years.	Cases.	Deaths.
California: Sacramento San Francisco. Connecticut: Waterbury. District of Columbia: Washington. Illinois: Chicago. Cicero. Freeport. Massachusetts: Boston. Missouri: Kansas City.	0 0 0 0	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New Jersey: Newark. New York: New York. Ohio: Canton. Cleveland. Toledo Rhode Island: Providence. South Carolina: Columbia. Texas: Waco. Virginia:	0 2 0 0 0 0	1 2	1 1 1 1 1 1
Kansas City St. Louis	0	1	1	Virginia: Norfolk	0	1	

DIPHTHERIA.

See p. 2855; also Current State summaries, p. 2843, and Monthly summaries by States, p. 2847.

INFLUENZA.

ended Nov. 11, 10	Cases.		Deaths,		Cas	Deaths.	
	Week ended Nov. 10, 1923.	week ended Nov. 10, 1923.	City.	Week ended Nov. 11, 1922.	Week ended Nov. 10, 1923.	week ended Nov. 10, 1923.	
Alabama: Birmingham Dothan Mobile Montgomery Arkansas: Little Rock California: Los Angeles Oakland		5 2 4 4 3	3	California—Continued. San Bernardino. San Francisco. Connecticut: Bridgeport. Fairfield. Hartford. New Haven. Norwich. Waterbury.	1 4 1 1 1	5	1

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued.

INFLUENZA---Continued

	Ca	ses.			C	ses.	
City .	Week ended Nov. 11, 1922.	Week ended Nov. 10, 1923.	Nov.	City	Week ended Nov. 11, 1922.	Week ended Nov. 10, 1923.	
District of Columbia: Washington Georgia: Atlanta Augusta Savannah Illinois: Atton Chicago Danville Decatur Pekin Kansas: Kansas City Kentucky: Louisiana: New Orleans Maine: Lewiston Sanford Maryland: Baltimore Massachusetts: Boston Cambridge Chelsea Haverhill Lawrence Pittsfield Quincy Minnesota: Minnesota: Minnesota: Minnesota:	14 1 1 2 2 2 1 1 10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 17 22 2 2 2 1 15 15	2 2	Missouri: Kansas City. St. Louis. New Jersey: Harrison. Newark Trenton. New York: Mount Vernon Peekskill. Schenectady. Yonkers Ohio: Cincinnati. Cleveland. Columbus. Kenmore. Lancaster. Toledo. Pennsylvania: Philadelphia Pittsburgh. Tennessee: Nashville. Texas: Galveston. Waco. Virginia: Lynchburg. Roanoke. Wisconsin: La Crosse.	100 1 1 67 1 1 1 1 2 2 2 1 1	1 1 11 11 11 11 11 11 11 11 11 11 11 11	
			LEPE	OSY.	· · · · · · · · · · · · · · · · · · ·		
City.	Ca	ises.	Deaths.	City.	C	ases.	Deaths.
California: Los Angeles		1 .		Texas: Galveston		1	

District of Columbia: Washington Massachusetts: Springfield	1	1	Michigan: Detroit Ohio: Cleveland Lima		1 i
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MALARIA.

Alabama: Birmingham California: Los Angeles Georgia: Augusta Savannah	1 2	1	Maryland: Baltimore	1	1
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CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. MEASLES.

See p. 2855; also Current State summaries, p. 2843, and Monthly summaries by States, p. 2847.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama: Anniston Louisiana: New Orleans Shreveport Massachusetts: Boston	1	1 1	North Carolina: Raleigh South Carolina: Columbia. Texas: Dallas. Housten.	1	1 3

PNEUMONIA (ALL FORMS).

A1-2			Indiana Cantinuad		
Alabama:	1 4	3	Indiana—Continued. Indianapolis	1	
Anniston	16		Conth Rond		
Birmingham	10		South Bend		2
Mobile		1 1	Terre Haute		2
Montgomery			Iowa:		1
Selma	. 2		Council Bluffs		1
Arkansas:	1	ł	Kansas:	l	1
Little Rock	. 2		Fort Scott		1
California:	1		Kansas City	2	
Alameda	. 2		Parsons	1	
Bakersfield Berkeley		2	Topeka		2
Berkeley		1	Wichita		5
Long Beach		1	Kentucky:		
Los AngelesOaklandPasadena	40		Covington		4
Oakland	7	4	Lexington		2
Pasadena		1	Louisville	13	7
Sacramento	2	1	Louis igna:		•
Sacramento		2	New Orleans		21
San Francisco		9	Maine:		21
Colorado:			Bangor	1	
Denver		6	Lawieton	5	••••••
Pueblo		š	Lewiston	-	••••••
Commontions		•	Sanford		1
Bristol	5				1
Drugepurt	1 1		Maryland:	or i	
Dristol		i	Baltimore	35	15
Hartiord	4	3	Cumberland	3	1
New Haven		1	Massachusetts:	1	
New London		3	Arlington		1
Waterbury		3	Belmont	11	-
Delaware:	1 1		i Baston i	21	
Wilmington		3	Brockton	ī	3
District of Columbia:	1 1		Cambridge	- 1	·····i
District of Columbia: Washington		12	Cholsen		1
Florida:			Chelsea	- 1	····i
Tampa	1		Domroro	2	1
Coorgia.			Danvers. Everett	í	
Augusta	1 1	2	Fall River	* 1	• • • • • • • • • • • • • • • • • • • •
Brunswick		1	Fall River	• • • • • • • • • • •	2
Savannah		4	Greenfield	•••••••	3
Illinois:		- 1	Haverhill	1 1	• • • • • • • • •
Alton	1	1	Hotyoke	<u>-</u> -]	1
AltonAurora	- 1	1	Lawrence. Lowell. Lynn.	2	
Champaign	1	- 1	Lowell		3
Champaign Chicago Cicero Danville	129	47	Lynn		1
Cinoro	3	2	Maiden	3 1	
Denville	•	2	Meford		1
Decetur	3	ĩ	Meford New Bedford		2
Decatur East St. Louis	9	5	Newburyport		2
Elgin	• • • • • • • • • • • • • • • • • • • •	ĭ	Newton		2
Eight		i	PeabodyQuincy	1 1	
Freeport		- 1	Quincy		1
Galesburg	2	······	Springfield	4	Ž
Jacksonville Kewanee Oak Park Peoria	4	2	Waltham	i l	-
Kewanee	2		Worcester	- I.	6
Oak Park	3	1			·
Peoria		3	Michigan:	_ 1	
Qiincv		. 1	Alpena	1 .	• • • • • • • •
Rock Island	1 .		Ann Arbor	2 .	
Rock Island Rockford		2	Battle Creek	2 .	
Springfield	1 .	ll	Bay City	1 .	
♥atE	- 1		Benton Harbor		1
Bloomington		1	Detroit	31	25
Fort Wayne		î l	Flint	3 .	
Hammond		$\hat{\mathbf{z}}$ \parallel	Grand Rapids		8
Huntington		ĩ II	Highland Park	3 1	ĭ
		- "	-9	٠.	_

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Michigan—Continued.			Ohio-Continued.		
Ironwood		. 1	Cincinnati	i	. 10
Jackson.		1 5	Cleveland		1 14
		2 2	Cleveland	29	
Kalamazoo	• • • • • • • • • • • • • • • • • • • •	1 1	Columbus. East Cleveland		5
Muskegon	3		East Cleveland	2	1
Pontiac	3	1	East Youngstown Findlay		1
Minnesota:			Findlay		1
DuluthMinneapolis		4	Kenmore		l
Minneapolis		6	Il I omoin	1 1	
St. Paul		8	Newark Springfield	-	ii
Missouri:			Springfield		5
77 12 - 3	5		Tolodo		2 3
Tannon City			Vouncetown		1 3
Kansas City	21	14	Toledo. Youngstown. Zanesville.	• • • • • • • • •	4
Hannioal Kansas City St. Joseph Nebraska:		3	Zanesville		1
Nebraska:			Oklahoma:		
Lincoln		1	Oklahoma		3
Omaha		7	Pennsylvania:		1
Nevada:		1	Philadelphia	60	48
Reno		1	Pittsburgh	13	51
New Jersey:			Rhode Island:		
Atlantic City	. 1	!	Powtucket		2
Powerne			Pawtucket Providence	• • • • • • • • • •	3
Bayonne	1		South Carolina:		3
Bioomneid	• • • • • • • • • •	. 1			١ .
Camden		3	Charleston		2
East Orange	3	.,	Columbia		2
Harrison. Hoboken	2		Greenville		1
Hoboken		1	Tennessee:		
Jersey City	5		Memphis		8
Montelair	ĭ		Nashville		š
Newark	39	9	Texas:	•••••	
		1	Amarillo	1	
Orange	2		Common Christi	1	
Passaic		2	Corpus Christi	• • • • • • • • • • •	1
Patterson	4		Dallas El Paso	4	1
SummitTrenton	1		El Paso		2
Trenton		1	II FOIL W GILLI		2
West New York		1	Houston		1 2 2 5
New York:		_	San Antonio		. 4
Albany	6		Waco.		
Buffalo	20	9	Utah:		"
Cohoon			Provo	1	
Cohoes		1	C-14 T-1- C'4	1	• • • • • • • • • • • • • • • • • • • •
Elmira	4	ã	Salt Lake City		. 1
Geneva		1	Vermont:		
Hornell	2 1	. 1	Burlington		4
Hudson		1	Virginia:		
New York	213	134	Alexandria		1
Niagara Falls	2		Danville		ī
Peekskill	ĩ		Lynchburg Norfolk Petersburg		î
Rochester			Norfolk		4
Dome	11	6	Potorchurg		
Rome		1 2	Petersburg		1
Schenectady	4	2	Portsmouth		2 5
Syracuse	6	4	Richmond	[5
Troy	7 [5	Roanoke		3
Watertown	4	ī	West Virginia:	I	
WatertownYonkers	- 1	î l	Charleston	i	1
Vorth ('arolina'		- 1	Huntington	6	2
Durham	- 1	. 1	**************************************	٠,	2
Croomshore		1	Wisconsin:		
Greensboro		2	Beloit		1
Winston-Salem		2	Janesville.		2
Ohio:	1	1	Madison		2 2 3
Akron	1	. 	Milwaukee	4	3
Barberton	3	i	Oshkosh.	*	3
Canton		2	Racine		3
Chillicothe	····i	4	150KIIIU		1

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued.

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-	Week ended Nov. 10, 1923.		City.	Median for pre-	Week ended Nov. 10, 1923.	
	vious years.	Cases.	Deaths.	, 3 .	vious years.	Cases.	Deaths.
California: San Diego District of Columbia: Washington Maryland: Baltimore Massachusetts: Boston Everett Fall River Lowell Methuen Salem. Michigan: Detroit	0 1 2 0 0 0	1 2 2 1 1 1 3 1 1	i i	New Jersey: Jersey City Newark Trenton New York Schenectady Pennsylvania: Erie Rhode Island: Providence Texas: Dallas Washington: Seattle	0 0 0 0 0	1 2 1 11 2 1 1	2

RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California: Los Angeles. Pasadena Georgia: Savannah	8 2 1	Massachusetts: Arlington Missouri: Kansas City Tennesses: Memphis	1 1

RABIES IN MAN. .

City.	Cases.	Deaths.
California: Los Angeles. Virginia: Portsmouth.	1	1

SCARLET FEVER.

See p. 2855; also Current State summaries, p. 2843, and Monthly summaries by States, p. 2847.

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		c ended 10, 1923.	City.	Median for pre-		
	vious years.	Cases.	Deaths.		vious years.	Cases.	Deaths
Alabama:				Oklahoma:			
Birmingham	0	1		Tulsa	lol	1	
Selma		2		Pennsylvania:	Ť	_	
California:			1	Farrell	0	1	
Los Angeles	0	47		Philadelphia	Ó	Ī	
District of Columbia:		I		Pittsburgh	0	1	
Washington	0	6	l	Tennessee:			
Illinois:			l	Chattanooga	0	1	
Mattoon	0	1		Knoxville	Ó	6	
Indiana:			1	Texas:		_	
Gary	0	1	1	Amarillo	0	1	!
Muncie	0	16		Beaumont	0	1	
Terre Haute	0		1	Fort Worth	0	1	
Iowa:			l	San Antonio	0	4	
Clinton	0	2		Texarkana		3	
Davenport	0	4		Vermont:		=	
Michigan:				Burlington	0	12	
Detroit	3	2	l	Virginia:			
Grand Rapids	0	1		Roanoke	0	2	1
Highland Park	0	· 26		Washington:	- 1	_	
Holland	0	8		Washington: Seattle	1	4	
Jackson	0	10		Spokane	7	3	
Minnesota:	i			Tacoma	0	1	
St. Paul	7	13		Vancouver	Ó l	3	
Nebraska:		- 1		Wisconsin:			
Omaha	2	2		Milwaukee	2	3	
Ohio:	- 1			Superior	0	1	
Middletown	0	2			- 1	_	
Youngstown	0	3		i			
Zanesville	0 1	3		1	f		

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Louisiana: New Orleans. Maryland: Baltimore. Massachusetts: Boston	1 2	2	New York: New York. Tennessee: Memphis. West Virginia: Charleston.		1 1 1

TUBERCULOSIS.

See p. 2855; also Current State summaries, p. 2843.

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. TYPHOID PEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious		c ended 10, 1923.	City.	Median for pre- vious		
	years.	Cases.	Deaths.		years.	Cases.	Deaths
Alabama:				Minnesota—Continued.			
Birmingham	1	3	1	Minneapolis	0	1	l
Arkansas:				St. Paul	1	1	
Fort Smith	1	1	••••••	Missouri:		١.	Ι.
Little Rock	1	2	· · · · · · · · ·	Hannibal	4	1 6	:
Long Beach	0	1		St. Louis New Jersey:	*		
Los Angeles	2	5	2	Atlantic City	0	1	1
Riverside	0	1		East Orange	0	1	
Sacramento	0	1	·····i	Harrison	0	1	
San Diego San Francisco	ĭ	2		Jersey City Kearney	0	2	• • • • • • • • • • • • • • • • • • • •
Colorado:	•	•		Newark	ĭ	3	
Denver	1	1		Perth Amboy	õ	1	
Pueblo	0	2		Perth Amboy Rahway Trenton	0	1	
Connecticut:	0	1	ł i	Trenton	1	2	ļ
Manchester New Haven	ĭ	2	·····	New York: Albany.	1	2	l
Delaware:	•	_		Elmira.	ō	î	
Wilmington	0	3		New York	26	17	
District of Columbia:	_		_	North Carolina:			1
Washington	3	2	3	Greensboro	0	3	ļ
leorgia:	o	1		Winston-Salem	0	1	
La Grange Macon	ŏ	2	••••••	Ohio: Canton	0	1	l
Savannah	ŏ	. .	i	Cleveland	4	î	
llinois:		_		Columbus	2	1	
Alton	Q	1	1	Lima	0	1	
Chicago East St. Louis	9	20	1 1	Newark	Q	••••••	1
Galesburg	ŏ	i		New Philadelphia Toledo	0 2	1 1	
Jacksonville	ĭ	4	·····i	Oklahoma:	~	-	٠
Peoria	0	3		Tulsa	0	3	
ndiana:				Pennsylvania:			
Elwood	0	••••••	1	Chester	0	1	
Huntington Indianapolis	2	1		Erie. Harrisburg.	0	1	
Mishawaka	ō	ī	i	Lebanon	ŏ	î	
Muncie	0		1	Lebanon	7	8	
ansas:		_	}	Pittsburgh	1	2	
Parsons	0	2		Tamaqua	0	1 2	
Wichita Centucky:	U			Uniontown Warren.	8	1	• • • • • • •
Covington	0	1		Rhode Island:	٠	•	
Henderson	0	1		Pawtucket	0	1	
Lexington	1	1		South Carolina:		_	
Louisvilleouisiana:	1	2		Charleston	1	1	
Shreveport	1	2		Tcnnessee: Knoxville	1.	1	
laine:		•		_ Memphis	11	6	
Bangor	0	1		Texas:		- 1	_
Portland	0	1		Dallas	1	6	
Sanford	0	1		EI Paso	1 0	3	
aryland: Baltimore	8	3	1	Fort Worth	81	3	• • • • • • • • •
lassachusetts:	١		-	Waco.	ŏl	3	
Boston	3	1	1	Utah:	1		
Cambridge	0	1		Provo		1	
Lowell	0	1	1	Salt Lake City	1	1	1
SalemSpringfield	0	1	• • • • • • •	Virginia:	o	1	
Waltham	ŏ	i		Norfolk Petersburg	ĭ		·····i
(ichigan:	١,	_		Washington:	- 1		•
Bay City		2 3		Seattle	2	2	
Detroit	3		-1	Spokane	0	1	
FlintGrand Rapide	1 1	1		West Virginia:	1	1	,
Grand Rapids Muskegon	i	i		Bluefield Fairmont	ō	2	
innesota:	-	- 1		Wisconsin:	١,	-	• • • • • • •
Duluth	0	1		Milwaukee	0	1	

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. TYPHUS FEVER.

City.	Cases.	Deaths.
Georgia: Savannah	3	
e n		

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

	Popula-	Total deaths	1 -	theria.	Mea	sles.		rlet ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:							·			·
AnnistonBirmingham	17,734	5 65	7	i	_i -		5	ļ	·····	<u>.</u>
Mobile Montgomery	178,806 60,777 43,464	16	3	1			li		9	2
Montgomery	43,464	13	2							
Seima	15,589		ī		1		1			
Arkansas: Fort Smith	28,870	l	1	l	l	l	1			l
Little Rock	65,142		7		ļ . .		4			
California:	00 000	١.		l	١.		١.		_	1
AlamedaBakersfield	28,806 18,638	2 7	2		2		1		1	-
Berkelev	56,036	10	8		ii.		1		2	•
E-molro	12,923	6			11					2
Glendale Long Beach. Los Angeles. Oakland	13,536	13	····							1
Long Beach	55, 593 576, 673	25 237	73		5 2		32	• • • • • •		1 3 33 1 2 1 1
Oakland	576,673 216,261	56	13	i	2		10		96 7	33
Pasagena	45,354	19		ļ <u>.</u>					3	2
Richmond	16,843	4			8		2		1	Ī
Riverside	19,341	8 27		····i	5	• • • • • •	1		5	1
Con Domordino	65,908 18,721	13	4		1	•••••	2		3	-
San Diego	74,683	34	4		2		4			····i
San Francisco	506.676	153	41		145	4	10		20	8
San Diego	15,485	6				• • • • • •	1	• • • • • • •		
Santa CruzVallejo	10,917 21,107	2 1	2		2		1 3	•••••	•••••	• • • • • •
Colorado:	21,101	•	-	• • • • • • • • • • • • • • • • • • • •		•••••	۰	•••••	• • • • • •	
Boulder	11,006	3			42					2
Denver	256,491	47	42		4		21			8
PuebloTrinidad	43,050 10,906	11	9 2	• • • • • •	1 2	• • • • • •	1 2		• • • • •	1
Connecticut:	10,900	•••••	4		-	•••••				• • • • •
Bridgeport	143,555	29	13				9		4	3
Bristol	20,620	2	2				2		2	
Fairfield (town)	11,475 138,036 18,370	6	;;-	• • • • • •	;-		2 5			· · · · · •
Manchester (town)	18 370	13 2	11		1	• • • • • •	9		2	• • • • • •
Milford (town)	10, 193	2								
New Haven	162,537	47	2				11	2	5	2
New London	25,688 91,715	7			1	;-			1	• • • • •
Waterbury Delaware:	91,715	21	9	. 2		1	6		2	• • • • •
Wilmington	110,168		9	2			14	1		.
District of Columbia:								-		•••••
Washington	437,571	133	22	3	3		20		28	16
Florida: St. Petersburg	14,237	7	2	1	4	- 1	1	- 1	- 1	1
Tampa.	51,608	10					3		···i	2
Georgia:	l						-		- 1	-
Augusta	52,548	14	1						1	• • • • •
BrunswickLagrange.	14,413 17,038	1	····i		• • • • • •	• • • • • •	3			• • • • • •
Macon	52,995 1		2				3		3	· · · · · ·
Rome	13, 252				10					
Savannah	83, 252	33	6	1	8				2	3
daho: Boise	21,393	4	- 1	ŀ	1		1	İ	į	
Pocatello.	15,001	2			- 1	• • • • • •	1			•••••
llinois:										· · · · · •
Alton	24,682 36,397	8 5 2	4 7	1						.
AuroraBerwyn	36,397 14,150	5	3	••••;•			2		5	• • • • •
Bloomington.	28,725	8	3	1	8	•••••	3		1	• • • • •
	,	2			- 4		2			

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Tetal deaths	1 -	theria	Me	asles.		arlet ver.	Tu	ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Illinois—Continued.					1	1	1	1	1	
Chicago	2,701,705	615	174	12	34	····	84	····	152	44
Cicero	44, 995 33, 776	9 7	í		1		2	1		
Decatur	43, 818	11	2				6		6	i
East St. Louis	66, 767	21	6		12	ļ	1 2			
Elgin Evanston	27, 454 37, 234 10, 768	10	3		12		6		1 2	
Forest Park	10,768	1								
Freeport	19,669	4		.	·					-
Galesburg. Herrin	23, 834 10, 986	5	2				1			
Jackson ville	15,713	12					2			
Kewanec	16,026	3		.]	2		2			
La Salle	13,050 13,552	1					1			-
Oak Park	39.858	15	3						2	····i
Peoria	76, 121	20	4				1			ì
Quincy	35, 978	7	3	.						• • • • •
Rock Island	35, 177 65, 651	10	1		*		2	J	1	·····i
Springfield	59.183	14	4				3		4	î
Urbana	10, 244		2	ļ						
Indiana: Anderson	90 767	8	2	1	3		3	1		
Bloomington	29, 767 11, 595	å								
Crawfordsville	10, 139	2					1			
East Chicago	35, 967 10, 790	1 4	2		43	•••••		• • • • • •		-
Fort Wayne	86,549	20	4		20		4			
Frankfort	11,585	4			26					
Gary	55,378	19	5	1			7		1	• • • • •
Hammond	36,004 14,000	11	1	• • • • • •		• • • • • •	3		1	•••••
Indianapolis	314, 194	94	31	1	4		5			
Kokomo	30,067	5	3	1						
La FayetteLogansport	22, 486 21, 626	9	2						1	• • • • •
Michigan City	19, 457	4								· · · · · · ·
MISDAWAKA	15, 195	8								i
Muncie	36, 524	7			• • • • • •	• • • • • •	2			•••••
Newcastle	14,458 70,983	2 8	10			•••••	6			-
Terre Haute	66,083	14	ĩ	i			4			····i
Iowa:					1		- 1			
Burlington	24, 057 45, 566	4	1			•••••	3		2	· · · · •
Clinton.	24, 151		3							
Council Bluffs	36, 162	5	4							•••••
Davenport	56,727	• • • • • • •	2 2		20		;-]	.
Dubuque	39, 141 11, 267	• • • • • • •					3]	• • • • •
Muscatine	16,068	6	2							
Ottumwa	23,003		7	1						1
Sioux City	71, 227 36, 230	3	9	3	79 1		6			
Kansas:	00,200				- 1		٠ "			· · · · · •
Atchison	12,630				45		2		1	
Coffeyville Fort Scott	13,452 10,693	2 2	1		1			•••••	• • • • •	• • • • •
Hutchinson.	23, 298						2			
Kansas City	101, 177		2		4		3 ∤		5	
LawrenceLeavenworth	12,456	4 3	1		••••				.	
Parsons.	16,912 16,028	3	1		1	•••••	···i	• • • • • •	····i	· • • • •
Topeka	50,022	22	13				3		i	····i
Wichita	72, 217	44	9						3 .	
Kentucky: Covington	57 191	19	1	}	ł		.,		- 1	
Henderson	12. 169	4					11			1 1
Lexington	57, 121 12, 169 41, 534	16	3				i		2	2
Louisville	234,891	74	10	•••••			3		13	4
Louisana:	17,424	••••••	2		•••••	•••••	•••••		2 .	•••••
New Orleans	387, 219	134	25		27	1	2		19	7
Shreveport	43,874	25 l	6	···i	33	l	4 1		٠٠٠٠٠٠ ا	1

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria.	Me	asles.		arlet ver.	Tu cul	ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Maine:								ĺ		
BathBiddeford	14,731	0 5	1		10	·····	·····			·····i
Lewiston	18,008 31,791 69,272	13	2						1	2
Portland	69,272 10,691	10 10	5	1	1		3		1	
Maryland:	-						1	ļ	1	
Baltimore Cumberland	733, 826 29, 837	192 15	24	2	7		27		13	13
Frederick	11,066	2	5							
Massachusetts: Adams (town)	12,967	2		1		1				l
Amesbury (town)	10,036	- 3								i
Arlington (town)	18,665 19,731	5 2	2			····-	1			
Belmont (town)	10,749	3		ļ	i					
BeverlyBoston.	22, 561 748, 060	173	74	4	39	·····	64		40	.14
Braintree (town)	10,580	2		l					40	
Brockton	66, 254 37, 748	12 9	6	1	3		7 3		i	·····;
Brookline	109,694	35	5	i			5		2	2
Chelsea	43, 184	9 5	2					····-		1
Chicopee	36, 214 12, 979	2	1		l		2			
Danvers	11.108				3				i	
Dedham	10,792 11,261	1				•••••			2	
Everett	40, 120	8	1						2	2
Fall River Framingham	120,4% 17,033	32 5	8			• • • • • • •	3 6	• • • • • •	8	5
Gardner	16,971	. 3					ž			
Greenfield Haverhill	15,462 53,884	6	3		1 3		5	• • • • • •	····i	
Holvoke	60 203	17	11				ĭ		2	i
Lawrence	94, 270	23	13 2		6		1		2	2
Leominster Lowell	94, 270 19, 714 112, 759	1 29	3				2		3	i
Lynn	99,148	16	1				7		7	
Malden Medford	49, 103 39, 038	9	6			•••••	8			
Melrose	18,204	4					1			
Methuen New Bedford	15,189 121,217	1 25	6 6		• • • • • •	•••••	• • • • • • •	••••	8	3
Newburyport	15,618	- 8					1			
Newton North Adams	46,054 22,282	12 5	4				1	• • • • • •		• • • • • • • • • • • • • • • • • • • •
Northampton	21,951	9			1		1			
Peabody Pittsfield	19,552 41,763	7 11	3 14	1 2	23		7	•••••	1	-
Plymouth	13,045 47,876	1								
Quincy Salem	47,876 42,529	7 10	4 3	• • • • • •	1 8		12	•••••	1 4	2
Saigus Somerville	10,874	0	1				2			
SomervilleSouthbridge	93,091	14 2	2 1		5		5 1	• • • • • •	3	· · · · · ·
Springfield	14,245 129,614	34	12	1			8		1	i
Springfield Taunton Wakefield	37, 137 13, 025	14 3	1		;-		1		1 1	
Waltham	30,915	5	5	····i	1		3		i	
Watertown	21,457	4			6		1			-
Webster	13,258 13,443	4 2					1		4	
Westfield	18,604	7	3]			
Winchester Winthrop	10,485 15,455	4					2 4		1	• • • • •
Woburn	16,574 179,754	2								
Worcester	179,754	56	13	1			31	• • • • • •	4	• • • • • •
Ann Arbor	19,516	10					. 1			.
Battle Creek	36, 164	0 2	2		1		4			· · · · · •
Bay CityBenton Harbor	47,554 12,233	3			1		1		1	····i
DetroitFlint	993,678 91,599	194 24 33	62 17	5 1	44 5		73 7	1	48	10 1
	v1.099 l	44			al					

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City. tion Jan. Aroma Causes. S S S S S S S S S		Popula-	Total deaths	1 -	ntheria	. Me	asles.		arlet ver.	Tu	ber- osis.
Michigan	City.	tion Jan.	from all		Deaths.	986	Deaths.	Sees.	Deaths.	Saes.	Deaths.
Hamtramek.			┝∸	 	╁	<u> </u>	一	+-	 -	<u> </u>	┼╌
Highland Park		40 615	, ,	1 4			1	1	١.	l	l
Holland	Highland Park	46,499						. 5	l		
Jackson	Holland		<u>-</u>	.	.						
Kalamazoo	Ironwood	15,739 48,374				1 1	·····				-
Marquette	Kalamazoo	48, 487				2				l	
Pont Earl Pont Pont Earl Pont Pont	Marquette	12,718		···-		100					
Port Huron	Muskegon	30,570 34,273					·····				· · · · · •
Minnesotat Duluth 98, 917 17 1 1 1 1 1 1 1 1	Port Huron	25,944	8	1				. 1			i
Duluth		12,096	0	3	ļ	57	ļ	. 2			ļ .
Faribault	Minnesota: Dubith	98.917	17	١,		1		15	Į	١,	1
Hibburg	Faribault		3			27				l	
Rochester	Hibbing			ļ <u>.</u>	·				1		
St. Cloud	Rochester			49	2	4					6
Virginia	St. Cloud	15,873						ļ <u>.</u> .			ļ <u>.</u>
Winona	St. Paul	234,698	62		2	10				12	4
Mississippic 11,560 2 <	Winona	19, 143	······		·····			3			
Missouri: 10,252 1 1 1 1 Hannibal 19,306 1 5 12 1 Independence 11,688 3 3 12 1 Kaness City 324,410 94 24 2 4 13 15 St. Louis 775,397 262 34 1 18 15 15 Montana Billings 15,100 5 5 9 3 1 4 Missoula 12,608 8 1 1 4 1 8 Nebrasks: 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4<	Mississippi:		1 -								
Cape Girardeau		11,560		2							-
Hannibal	Cape Girardeau	10.252	1			l		1			l
Independence	Hannibal	19,306									
Montana: Billings	Independence	11.686								::-	<u>-</u>
Montana: Billings	St. Joseph	324, 410 77 939		24	2					15	7
Montana: Billings	St. Louis	772,897		34	1		1		1	38	13
Great Falls	Montana:	15 100									
Missoula 12,668 8	Great Falls	24, 121		5	•••••		• • • • • •			•••••	• • • • •
Lincoln	Missoula	12,668						4			
Omaha 191,601 53 11 3 1 5 New Hampshire: Berlin 16,104 5	Nebraska:	E4 046	10							1	
New Ada: Reno. 12,016 5					3		•••••	5		• • • • • •	3
New Hampshire Berlin	Nevada:	·		**	ا ا	•	•••••	١٠١		•••••	
Berlin	Reno	12,016	5				• • • • • •				• • • • • •
Dover 13,029 3	Berlin	16, 104	5								1
Keene	Concord	22, 167	9					3			· · · · · · ·
New Jersey	Dover	13,029					•••••	;-		• • • • • • •	2
Atlantic City 50,707 9 1	New Jersey	12,400				14	• • • • • • •	1		•••••	
Bayonne 76,754 1 2 1 Belleville 15,660 1 1 1 Bloomfield 22,019 3 1 1 Camden 116,309 27 8 1 Clitron 26,470 1 3 1 East Orange 50,710 8 3 1 Elizabeth 95,783 23 1 4 1 1 Garfield 19,381 3 1 4 1 1 3 Hoboken 68,166 18 5 1 1 3 1 1 1 3 1 1 3 1 1 3 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 2 2 3 2	Asbury Park	12,400	. 2								
Belleville	Atlantic City	50,707	9				•••••			;-	· · · · · •
Camden 116,309 27 8 1 Clifton 26,470 1 3 1 East Orange 50,710 8 23 1 4 1 1 Belizabeth 95,783 23 1 4 1 1 3 Harrison 15,721 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 3 2	Belleville	15,660						2			· · · · · ·
Clifton	Bloomfield	22,019									
East Orange 50,710 8 23 1 4 1 1 3 3 6 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clifton	116,309					•••••	1		• • • • • •	2
Elizabeth 95,783 23 1 4 1 1 3 Garfield 19,381 3 1 1 3 Harrison 15,721	East Orange	50,710								*****	· · · · · · ·
Harrison 15, 721 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		95,783			1	4				1	
Hoboken		19, 381	3	1				1			•••••
Jersey City 298, 103	Hoboken.	68, 166	18								i
Long Branch 13, 521 6	Jersey City	298, 103									• • • • • •
Montclair 28,810 2 1 Morristown 12,548 5 2 1 Newark 414,524 84 14 1 11 12 Orange 33,268 3 1	Long Branch	26,724		3		2	•••••	2].	• • • • • •	3	1
Morristown 12,548 5 2 Newark 414,524 84 14 1 11 12 Orange 33,268 3 1 1 1 1 Passaic 63,841 12 3 1	Montelair	28, 810								i	· · · · · · ·
Orange. 33, 288 3 Passaic. 63, 841 12 3 1 Paterson. 135, 875 1 16 11 Perth Amboy. 41, 707 5 2 1 1 Phillipsburg. 16, 923 1 1 1 Plainfield. 27, 700 3 5 1 1 Rahway. 11, 042 3 8 5 1 1 Summit. 10, 174 5 1 1 1 1 Trenton. 119, 229 34 9 1 1 1 3		12, 548	5								
Passaic. 63, 841 12 3 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1		414, 524	84	14	1			11		12	9
130, 870 1	Passaic	63, 841	12	3		i				· · · · · · · · ·	· · · · · · ·
Phinipsourg. 16,923 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		130,875 !.		1						11	••••
Trenton 119, 259 34 9 1 1 1 3		41, 707 16, 923	5	2	• • • • •		1				••••
Trenton	Plainfield	27, 700	3			5					· · · · · · ·
Trenton	Kahway	11,042	3	8 .							
Union (town). 20,651 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trenton	119, 250	34		····;· ·			····;- -		1 .	
West Hoboken	Union (town)	20, 651 .		1 .							-
Wast Or and 1 1 1 1 2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1	West New York	40, 074	3	1.				.		1 .	••••
11 Car Orange	West Orange.	15, 573	3	1	1			·····	••••	1	••••

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	ntheria	. Me	asles.		arlet ver.		be r- osis.
City.	tion Jan. •1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Mexico: Albuquerque	15, 157	3	1	ļ		ļ	1	ļ	2	1
New York: Albany	113, 344		42	ļ		ļ	20	ļ	3	
Amsterdam Auburn	33, 524 36, 192	7	6		4		3		ı	2
BuffaloCohoes	506, 775	123	19		1		20		17	9
Elmira	36, 192 506, 775 22, 987 45, 393	5 16	1		18		2			
GenevaGlens Falls	14, 648 16, 638	3 2								
Hornell	15, 025	5								į
HudsonIthaca	11, 745 17, 004	5 11	1 2		····i	[1	1 1
LackawannaLittle Folis	17, 918 13, 029	1 2		<i>:</i>	4		3		1	• • • • •
Middletown	18, 420				7				i	
Mount Vernon New York	42, 726 5, 620, 048	1, 220	133	14	100	2	1 84	····i	1 203	174
New burgh	30, 356	6	ł				2		4	
Niagara Falls	50, 760 15, 482	11	3				5 7		1	· · · · · ·
Olean Peekskill	20, 50 6 15, 868	8 8		ļ		ļ	4 2		2	i
Rochester	2 95, 750	60	7	i	1		9	····i	13	2
RomeSaratoga Springs	26, 341 13, 181	3 6	11		61	• • • • • • • • • • • • • • • • • • • •	8		2	• • • • • •
Schenectady	13, 181 88, 723	20	20		21		1		6	i
SyacuseTroy	171, 717 72, 01 3	36 28	16 6		19 54		16		7	2 1
Watertown White Plains	31, 285 21, 031	5 5	ĭ							•••••
Yonkers	100, 176	23	4		3		2		1	i
North Carolina: Durham	21, 719	5	2		5		3			
Greensboro	43, 525	12	6		í		6			· · · · · · <u>·</u>
Raleigh	24, 418 12, 742	g	3	1	• • • • •		3		1	2
Salisbury	13,884	5					;			1
Wilmington Winston-Salem	33, 372 48, 395	14 11	9		28		1 4		1 2	1
North Dakota: Fargo	21,961	6								
Grand Forks	14, 010						10			• • • • • • •
Ohio: Akron	208, 435	34	10		2		7		2	••••
Ashtabula	22, 082 18, 811	2					3			•••••
BarbertonBucyrus	10, 425	5 2	1							· · · · · ·
Cambridge Canton	13, 104 87, 0 91	₫ 30	2 27	1 3	····i		2 4			·····i
Chillicothe	15, 831	4	1				1			
Cincinnati	401, 247 796, 841	111 158	21 46	1 3	8 7		26 34	2	13 35	8 8
Cleveland Heights Columbus.	15, 236 237, 031						1		3	6
East Cleveland	27, 292	70 3	17 1		1		10		2	1
East Liverpool East Youngstown	21, 411 11, 237	3	3	•••••		•••••	2	•••••		1
Findlay	17,021	4	2							· · · · · · ·
Fremont	12,468 39,675	5 11	····i				2		;	
Kenmore. Lancaster	12,683 14,706	3	1 2 1				1			
Lima	41, 326	11	2		···i		2 1		1	· · · · · · ·
Lorain	41, 326 37, 295 27, 824	4	5				10	[· · · · · •
Martins Ferry	11,634	2	i		2		2			
Middletown	23, 594 10, 718	6	1 1		2		1 1			-
Newark	26,718	9	i						• • • • • •	2
NorwoodPiqua	24, 966 15, 044	3 4								
Salem	10, 305	41							• • • • • • , •	

¹ Pulmonary only.

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	_	htheria	. Me	easles.		arlet ever.		
City.	tion Jan. 1, 1920.	from all causes		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	
Ohio-Continued.						1				
Sandusky	22, 897	5	·	.			.			
Springfield	60, 840			1	1		- 1		· ····	
Steubenville Tiffin	28, 508 14, 375	9			. 2		3		1::	
Toledo	243, 164	68	21	i			. 19			e
Youngstown	132, 358		. 22		3		. 13		8	
Zanesville Oklahoma:	29, 569	5	2		-	-	- 6	,	-	
Chickasha	10,179		. 4	1	 		. 1		.l	
Muskogee	30, 277 91, 295 15, 348		. 1	ļ <u>;</u>	-		. 7			
Oklahoma Shawnee	91,295	23	10	1	1 7	.	. 3		- 2	·
Tulsa	72,075	1	. 5	ļ .	. :		: 4		. 5	
Pennsylvania:		1			1	1	1 .	1	1	
Ambridge. Beaver Falls	12,730 12,802 12,181 50,358		1 2		-	-	. 12		-	
Berwick.	12, 181					1				
Bethlehem	50, 358		. 11	٠	. 3	1	. 1			1
Braddock	20,819		. 7	[-	.	. 1			
ButlerCarbondale	23,778 18,640			1		-	. 1		·	
Carlisle	10,916]]:::::		2	1		
Carnegie	11,516		. 2		. 1		.			
Chambersburg Chester	13, 171 58, 030		3		2		2	•	2	· -
Coatesville	14, 515		ı		1		í		-	
Connellsville	13, 804		1				4			
Dickson Erie	11,049		····		5		· · · · · <u>·</u>	.	·	
Farrell	93,372 15,586		6 15		1		7 3		2	
Greensburg	15,033		l ĭ		1		1			
Harrisburg	75, 917		6		2		1			
Harrisburg Hazelton. Homestead	32, 277 20, 452		2		1					
Johnstown	20, 452 67, 327		5				2 5			
Lancaster	53, 150		5		2		2		i	
Lebanon	24,643 16,713		14				5			
McKeesport.	46,781						1			
Monessen	18, 179		7				l	1		
New Castle	44,938		2				2			
New Kensington Norristown	11, 987 32, 319		2						····i	· · · · · •
North Braddock	14,928		4		2				i	
Oil City	21, 274		2				4			
Philadelphia Pittsburgh	1,823,779 588,343	504 195	86 53	5 5	14 5		41 31	····i	53 15	
Pittston	18 497	150	1		3		31		19	
Plymouth	16 500		1							
PottstownReading.	17, 431 107, 784 137, 783 21, 204 21, 747		5	•••••	1	• • • • •			1 8	-
Scranton	137, 783		5		• • • • • •		2		8	
Shamokin	21,204		2							-
Sharon	21,747		4				1			-
SteeltonSunbury	13, 428 15, 721		3 4		1		2		• • • • • •	· · · · •
Swissvale	10,908		5				1		· · · · · ·	
Uniontown	15,692		1		1		2			
Warren Washington	14, 272 21, 480		3		1 23		7 5			•
Wilkes-Barre	73,833		6		1					•••••
Williamsport	36, 198				50		2 2			
WoodlawnYork	12,495 47,512		5 2	•••••			1		•••••	
Rhode Island:			z	• • • • •	•••••				•••••	• • • • •
Cranston	29,407	3					1		اا	
Cumberland (town)	10,077	3	i				1			.
East Providence (town) Newport	21,793 30 955	8	4	••••• •	•••••		1		•••••	i
Pawtucket	29, 407 10, 077 21, 793 30, 255 64, 218 237, 595		3							
Providence	237, 595	64	15	1	1		12		i	5
onth Carolina: Charleston		24	2	- 1			2	1	j	1
Columbia	67,957 37,524 23,127	20	. 		24			······ ·	···i	1 1
		8	21							î

CITY REPORTS FOR WEEK ENDED NOVEMBER 10, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria	Me	ssles.		arlet ver.	Tu	ıber- losis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Doaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
South Dakota:										
Sioux Falls Tennessee:	25, 202	9			1		1			·····
Chattanooga	57,895		4	2	18	ļ .	1 9		6	····-
Knoxville	77,818 162,351 118,342	56	11		3		7		10	6 5 1
Nashville Texas:	118,342	31	5				2	ļ	4	1
AmarilloBeaumont	15, 494	5 10					2 2	1		
Corpus Christi	40, 422 10, 522	3 46								
Dallas El Paso	10,522 158,976 77,560	46 31	17	i	77		10] -	i	5
Fort Worth		24	5		i		1 3 2	1		
Galveston	44,255 138,276	9 42	8	2			2 3			i
San Angelo	44, 255 138, 276 10, 050 161, 379	14	l	ļ	····i		ļ			6
Texarkana	11.480	39	5 6		15				4	6
WacoUtah:	38,500	10	3				3			i
Provo.	10,303	3	1				1			
Salt Lake CityVermont:	118, 110	\$2	3		• • • • • •	• • • • •	1		1	2
Burlington	22,779	12					1			
Virginia: Alexandria	18,060	3	1				4			
Charlottesville	10,688 21,539	5 8 8	1			•••••	2 1			
DanvilleLynchburg	30,070	8	8		····i		2		i	i
Lynchburg Norfolk. Petersburg.	115,777 31,012	6	12		3		3	•••••	5 3	1
Portsmouth	54,387	8	3	i						
Richmond	171,667 50,842	48 11	13	•••••	11		11		1 2	4
Washington:	-						_			
Bellingham	25,585 315,312		2 8		15		2 18		13	
Spokane	104, 437		8 3 2		70	•••••	13 2	'-	14	•••••
Tacoma. Vancouver	96, 965 12, 637		2				î			-
Yakima West Virginia:	18,539		•••••		31					•••••
Bluefield	15, 282	6	1				3		ا۔یا	
Charleston	39,608 27,869	14	3 2		····i		3		2	····i
Huntington	50,177	16	4				ī			•••••
Martinsburg Morgantown	12,515 12,127		1				2			· · · · · · · ·
Parkersburg	20,050 56,208	7 17	1 5			••••••	1 8		····i·	1 3
Wisconsin:		- 1					١		- 1	·
AppletonBeloit	19.561 21,284	4 3	3 6		1		3		1	• • • • • •
Eau Claire	20,936				2		1 2			
Fond du LacGreen Bay	23,427 31,017	2	11		8		16	2		
Janesville	18,293	5 4	1 3		···· ₂		3	•••••	6	
Janesville Kenosha La Crosse	40,472 30,421		1.				i			
Madison	38.378 17,563	11	14	2					····i	
Marinette	13,610						1			· · · · · · <u>·</u>
MilwaukeeOshkosh	457,147 33,162	82 14	42	3	2		28 1	····i	19	5
Racine	58,593	10	3	1			28		3	•••••
SheboyganStevens Point	30,955 11,371	2	5				3			
Superior	39,671 18,661	4	6		i		3 2			1
West Allis	13,745		1		1					
								i		

FOREIGN AND INSULAR.

BRAZIL.

Yellow Fever-Pernambuco.

Under date of November 16, 1923, two fatal cases of yellow fever were reported at Pernambuco, Brazil.

CHILE.

Mortality-Concepcion-September, 1923.

During the month of September, 1923, there were reported at Concepcion, Chile, 291 deaths from all causes, of which 152 were of males, 139 of females, 14 were stillbirths, and 121 occurred in children less than 1 year of age. Certain causes of deaths were reported as follows: Cancer, 6; influenza, 14; pneumonia, 61; broncho-pneumonia, 15; smallpox, 3; typhoid fever, 1; typhus fever, 1; and tuberculosis, 36. Population, 64,512.

CUBA.

Communicable Diseases.

Communicable diseases have been notified in Cuba as follows:

Habana.

	Nov. 1-	Nov. 1-10, 1923.			
Disease.	New cases.	Deaths.	treatment Nov. 10, 1923.		
Chicken pox Diphtheria Infantile tetanus	3	1 1	2 4		
Leprosy Malaria Measles. Paratyphoid fever	85 5		1 15 2 76 5		
Scarlet lever Typhoid lever		1	3 28		

Population, 380,639.

¹ Sent to the leper asylum at Rincon, 1.

Provinces.

		New cases reported Oct. 1-10, 1923.							
Province.	Chicken pox.	Diph- theria.	Malaria.	Measles.	Paraty- phoid fever.	Scarlet fever.	Small- pox.	Typhoid fever.	
Camaguey Habana Matanzas	1 1 1	7	6 18	5	6 1			6 11 4	
Oriente	1 2	2	14 2		16 1	1		11 8 32	
Total	6	9	40	5	24	1		72	

² From the interior, 42. ² From the interior, 20.

JAMAICA.

Smallpox (Reported as Alastrim).

During the two weeks ended October 27, 1923, 36 cases of smallpox (reported as alastrim) were reported in the Island of Jamaica. Of these, one case, occurring during the week ended October 27, 1923, was notified in the Parish of Kingston.

Typhoid Fever-Kingston and Vicinity.

During the same period 9 cases of typhoid fever were reported at Kingston and 32 cases in the surrounding country.

MALTA.

Communicable Diseases.

Communicable diseases have been reported in the Island of Malta for August and September, 1923, as follows:

Dispase.		eported.		
		Septem- ber, 1923.	Remarks.	
Chicken pox. Influenza. Malaria. Pn umonia. Poliomyelitis. Trachoma Undulant fever. Whooping cough.	1 3 2 100 184 133	3 25 4 22 141 99 235	Two imported.	

¹ Broncho-pneumonia, 4.

MOROCCO.

Plague-Camp of Dar-Kebdani-Melilla.

Under date of October 24, 1923, the occurrence of two cases of plague in the district of Melilla, Spanish Zone, Morocco, was reported as follows: October 13—one case at the camp of Dar-Kebdani; October 19—one case at Melilla.

PANAMA CANAL.

Communicable Diseases-October, 1923.

Communicable diseases were notified for the Panama Canal during the month of October, 1923, as follows:

Disease.	Canal Zone.	Colon.	Panama.	Nonresi- dent.	Total.
Chicken pox. Diphtheria: Dysentery. Hookworm disease. Malaria. Measles. Meningitis.	2 2 5 65 4	1 5 4 5	10 1 1 16 1 25	3 4 24 14 4	18 3 8 50 84 38
Pneumonia. Tuberculosis Typhoid fever Whooping cough	5	1 5	32 15 1	5	33 30 1 6

¹ For communicable diseases in the Island of Malta for July, 1923, and period October 1-15, 1923, see Public Health Reports, September 28, page 2297, and November 16, 1923, page 2749.

² Brencho-pneumonia, 1.

Place.

PORTUGAL.

Plague-Lisbon.

Under date of October 25, 1923, the occurrence of two cases of plague with one death was reported at Lisbon, Portugal.

VIRGIN ISLANDS.

Disease Prevalence—October, 1923.

Disease prevalence was reported in the Virgin Islands of the United States during the month of October, 1923, as follows:

Disease and island.	Cases.	Remarks.
St. Thomas and St. John: Dengue. Gonococcus infection. Tuberculosis St. Croix: Chancroid. Dysentery Filariasis Gonococcus infection Syphilis. Trachoma. Tuberculosis	6 4 1 1 2 13 1 1 36 3	Imported, one. Entameble. Bancrofti. Secondary. Chronic pulmonary

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

The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended November 30, 1923.¹ CHOLERA.

Romarke

F 1300.	Date.	Cases.	Deatils.	Remarks.
India. Bombay. Rangoon. Iraq (Mesopotamia): Basrah. Siam: Bangkok.	Sept. 23-29 Sept. 30-Oct. 6 Sept. 25-Oct. 9 Sept. 23-29	1 .1	1 1 12 1	Sept. 9-15, 1923: Cases, 1,538 deaths, 904.
	PLA	GUE.	<u>'</u>	
Ccylon: Colombo China: Amoy Hongkong Nanking India Bombay Karachi Madras Presidency Rangoon Morocco: Dar-Kebdani Melilla Portugal: Lisbon	Oct. 7-20 Sept. 23-29 Oct. 7-20.	1 4 5 557 13 1	9 3 3 3 4 8 335 12	Four plague rodents. Present. Sept. 9-15, 1923: Cascs, 4, 783; deaths, 3,556. Camp in Spanish Zone. In Spanish Zone.
Siam: Bangkok Straits Settlements: Singapore	Sept. 16-29 Sept. 23-29	2 3 2	1 2 3	

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

Reports Received During Week Ended November 30, 1923 - Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.		
Chile:						
Concepcion	. Sept. 1-30	. 3		•		
China:	Sept. 30-Oct. 13			. Present.		
AmoyChungking	Sept. 30-Oct. 13			Do.		
Foochow	Oct. 7-13			. Do.		
Hongkong	Sept. 23–29		12			
FinlandIndia	· ······		.	Oct. 1-15, 1923: Cases, 2.		
Bombay	Sept. 23-29	3		Sept. 9-15, 1923: Cases, 774; deaths		
Karachi	. Oct. 7-13	.] 1				
Madras	Oct. 7-20	. 5				
Rangoon	Oct. 7-13	. 1		•		
Iraq (Mesopotamia): Basrah	Sept. 25-Oct. 9	3	1 1			
Jamaica.	.		.	Oct. 14-27, 1923: Cases, 36. (Re		
Kingston	Oct. 21-27	1		ported as alastrim.)		
Persia:	T-1- 04 Amm 04	İ				
TeheranPortugal:	. July 24-Aug. 24		. 1			
Oporto	Oct. 14-27	13	4	1		
Siam:	ŀ	1	1 -			
Bangkok	Sept. 23–29	76	48			
Spain: Valencia	Oct. 21-27	8	1			
Yugoslavia	OCt. 21-27	°	· · · · ·	July 8-Aug. 25, 1923: Cases, 142		
2 4600.0				deaths, 21.		
	TYPHUS	FEVE	R.	· · · · · · · · · · · · · · · · · · ·		
Algeria:		l	İ			
Algiers	Sept. 1-30	1				
Chile: Antofagasta	Oct. 21-27	8	1	the second secon		
Concepcion	000, 21-21		l	Sept. 1-30, 1923: One death.		
Iquiqûe	Oct. 7-13		1			
China:	0-4 0 14		į.			
AntungChungking	Oct. 8-14 Sept. 30-Oct. 13	4		Stated to be endemic.		
Egypt:	Бери. 30-оси. 13	•••••		Stated to be endemic.		
Cairo	July 23-Aug. 5	12	12			
Finland		• • • • • • • •		Oct. 1-15, 1923: Paratyphus fever,		
(raq (Mesopotamia):				71 cases.		
Basrah	Sept. 25-Oct. 1	1				
Mexico:	· -			The state of the s		
Guadalajara	Oct. 1-30	1				
Palestine:	Oct. 16-22	1				
HaifaUnion of South Africa:	Oct. 10-22	1				
Transvaal—						
Johannesburg	Oct. 6-13	1				
rugoslavia		• • • • • • • • • • • • • • • • • • • •		July 8-Aug. 25, 1923: Cases, 14.		
YELLOW FEVER.						
	I DDDO W					
	TELEGW		ı			
Brazil: Pernambuco	Nov. 16		2			

Reports Received from June 30 to November 23, 1923.¹ CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:	Sept. 16–22		2	

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

Place.

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

Reports Received from June 30 to November 23, 1923—Continued.

CHOLERA—Continued.

Date.

· Cases. Deaths.

Remarks.

1 1000						
China: Canton	Aug. 26-Sept. 1	1	l			
Foochow	July 29-Sept. 1			Present.		
Shanghai	July 29-Sept. 1 Aug. 20-Sept. 2	2	28	Cases, foreign; deaths, native.		
Do	Aug. 28-Sept. 16		12	Reported moderately prevalent		
India	i		1	Aug. 28. Apr. 15-June 30, 1923: Cases,		
Bombay	June 3-30	34	23	19.470; deaths, 14.608. July 1-		
Do	July 1-Sept. 15	129	75	19,470; deaths, 14,608. July 1- Sept. 8, 1923: Cases, 18,611;		
Coloutto	Morr & Tune 20	371	300	deaths, 10,527.		
Calcutta Do	May 6-June 30 July 8-Sept. 29	212	165			
Madras	June 3-30 July 1-Oct. 6	2	200			
Do	July 1-Oct. 6	19	10			
RangoonDo	May 13-June 30 July 1-Sept. 29	18 35	15 32			
Indo-China	July 1-56pt. 25	30	32	Oct. 1-31, 1923: Cases, 92: deaths		
				Oct. 1-31, 1923: Cases, 92; deaths, 53. Preceding month: Cases, 24; deaths, 14. October, 1921: Cases, 100; deaths, 61. Nov. 1-Dec. 31, 1922: Cases, 161; deaths, 59 (native); European, 1 cases.		
			1	24; deaths, 14. October, 1921:		
		İ		Lases, 100; deaths, 61. Nov.		
		ł	i i	deaths, 59 (native); European.		
City	30 00 00		!	1 Case.		
Saigon	May 20-June 30	12	11	Including 100 square kilometers		
Do	July 1-28	13	12	of surrounding country.		
Province—						
Annam Do	Sept. 1-Dec. 31 Feb. 1-28	179	66	Epidemic.		
Cambodge	Sept. 1-Dec. 31	47	27	ipidemic.		
Cochin-China	do	51	33			
Do Tonkin	Jan. 1-Feb. 28 Oct. 1-Dec. 31	19 1	8			
Iraq (Mesopotamia):	Oct. 1 Dec. 01	•				
Bagdad	Sept. 3-17	46	37	- . .		
Basrah	Aug. 8-Sept. 17	564	422	Port declared infected since Aug. 6, 1923.		
Philippine Islands:				0, 1320.		
City—			_ 1	To		
Manila Province—	June 10–16	2	1	Death in foreign case from Ching- kang, China.		
Bulacan	May 17-23	1		ame, onthe		
Capiz	May 27-June 2	1	1			
Cebu	Apr. 8-21	1	1 1			
CotobatoLaguna	May 17-25. May 27-June 2. Apr. 8-21. Apr. 8-14. May 6-June 9. Aug. 5-11. Mar. 25-31.	2	1			
Mindoro	Aug. 5-11	2	2			
Mountain	Mar. 25-31	1	1			
Occidental Negros Pangasinan	July 22–28 June 24–30	$\frac{1}{2}$	1 2			
Viscaya	July 7-14.	ĩ	ĩ			
Russia (Soviet)				Jan. 1-May 15, 1923: Cases, 10.		
Siam:	Mary 12 Turns 20	10				
BangkokDo.	May 13-June 30 July 1-Sept. 15	6	11			
	, ,	- 1				
77.						
PLAGUE.						
		1	Ī			
Algeria: Algiers	Aug. 11-20	2	1	Actual dates of occurrence; Aug.		
Aigicis	Aug. 11-20	-	•	16 and 17, 1923.		
St. Eugène	Aug. 1-20	2	2	Locality 5 miles north of Algiers.		
Australia: Sydney	June 30	1	1	·		
Azores: St. Michael Island	i	1	- 1	To one least to		
Bolivia:	May 6-26	12	5	In one locality.		
La Paz	Sept. 1-30		1	•		
Brazil: Bahia	Eept. 2-15	3	2			
Porto Alegre				Jan. 1-Mar. 31, 1923; Deaths, 19.		

Reports Received from June 30 to November 23, 1923—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa:				
Kenya—	7 10 10	١.		
KISUMU		. 2	. 1	
Do Mombasa		17	8	
Kilindini Area	do	1	.	Plague rats, 12.
Tanganyika	. May 6-June 2	. 3		Territory.
Do	. July 5-21	. 20		
Uganda	. Apr. 1-30	. 7	5	
Canary Islands: Las Palmas:	Tuno 7	. 1	1	
Tenerifie	June 7 Nov. 6			Present.
Ceylon:	1 2404. 0	1		Tresent.
Colombo	. May 6-June 30	. 18	19	Plague rats, 38.
Do	. July 1-sept. 29	. 65	57	Plague rats, 26. One plague-
		1	1	infected cat.
China:	Man 10 Tonna 07	1	1	
Amoy	. May 13-June 25 July 1-Sept. 29		10 18	
Do	May 27-June 23	-j	. 10	. Present.
Do	July 8-Sent. 1		1	Reported as endemic.
Hongkong	July 8-Sept. 1 Apr. 29-June 30	. 63	40	Troportou as andemic.
	July 1-Sept. 22	. 32		
Manchuria— Yakoshih	1	1		
Yakoshih	. May 31	. 1	1	Station on Eastern Chinese Rail-
	1	I	1	way. Occurring in tarabagan
	T 15 00		ł	(marmot) nunter. Buponic.
Nanking	June 17-30			Rodent plague present.
Do Ecuador:	July 1-Aug. 4			Do.
Guamote	Aug. 1-15	. 9	2	Country district
Guayaquil				May 16-June 30, 1923: Rats ex-
Do	July 1-zept. 30	. 10	3	Country district. May 16-June 30, 1923: Rats examined, 13,800; found infected,
Do	July 16-Aug. 15	. 7	3	39. July 1-Aug. 15, 1922: Kats examined, 13,450; found in- fected, 23. Aug. 16-30, 1923: Rats taken, 54,304; found in- fected, 66. (Number examined
				examined, 13,450; found in-
	1	l	ł	fected, 23. Aug. 16-30, 1923:
		j		Rats taken, 54,304; found in-
		1		not reported
Egypt	l			Jan 1-1ime 21 1923: Coses 1 051:
.P.1 ha		1	1	deaths, 548. May 1-29; Cases
	1	1	l	345. Jan. 1-June 24, 1923;
	1 .			Cases, 1,069. Jan. 1-Oct. 4,
au .				not reported.) Jan. 1-June 21, 1923: Cases, 1,051; deaths, 548. May 1-29: Cases, 345. Jan. 1-June 24, 1923: Cases, 1,069. Jan. 1-Oct. 4, 1923: Cases, 1,360; deaths, 661.
City—	Jan. 7-June 24	35	15	
Alexandria	July 1-Sept. 30	17	10	May 1-29, 1923: Cases, 14.
Do Port Said	Jan. 7-June 24	24	12	May 1-29, 1923: Cases, 13.
DoSuez	July 1-Sept. 30 Mar. 2-June 15 July 16-Aug. 30	30	5	2109 1 20, 1020. Cases, 10.
Suez	Mar. 2-June 15	12	5 7	May 1-29, 1923: Cases, 3,
Do	July 16-Aug. 30	11	1	
Province—				
Assiout	May 1-29	64		Deaths not reported.
Favour	do	14		Do. Do.
Assiout. Benisouef. Fayoum Garbieh. Geizeh Girgeh Keneh. Menoufieh.	do	2		Do. Do.
Geizeh	do	3		Do.
Girgeh	do	123		Sept. 26: One case.
Keneh	do	22		Deaths not reported.
Menoufieh	do	34		Sept. 15: Cases, 1; ceaths, 1.
Minien	do	46		Deaths not reported.
			i	Dublished in Dublic Health D.
Paris	Aug. 13	1		Published in Public Health Re-
			1	ports, Sept. 14, 1923, pp. 2189 and 2190.
reece:			- 1	und 2100.
Syra Island	Sept. 10			Present.
awaii:	-			
Hamakua		!		Plague infected rats: Pohakea, May 23, 1923, 1 rat; vicinity of Pacific Sugar Co. mill, June 2,
			i	May 23, 1923, 1 rat; vicinity of
		I		Pacific Sugar Co. mill, June 2,
1		1	1	i rat; Aug. 2, 1 rat at Hamakua
1		, +	I	мии со. piantauon. Aug. 16,
Honokaa	Sent 21	,		plague rat found at Kapulena.
Honokaa	Sept. 21	1	1	plague rat found at Kapulena. July 20, 1923: One plague rat; July 30, 2 plague rats: Hopolea
Honokaa	Sept. 21	1	1	1 rat; Aug. 2, I rat at Hamakua Mill Co. plantation. Aug. 16, plague rat found at Kapulena. July 20, 1923: One plague rat; July 30, 2 plague rats; Honokaa Sugar Co. mill and Honokaa

Reports Received from June 30 to November 23, 1923—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India				Apr. 29-June 23, 1923: Cases, 5,783; deaths, 4,481. July 1- Sept. 1, 1923: Cases, 13,141; deaths, 8,529.
Bombay	. Apr. 29-June 20	503	411	5,783; deaths, 4,481. July 1-
D0	. July 1-Sept. 22 May 6-June 9	39 13	31 13	Sept. 1, 1923: Cases, 13,141;
Do	Aug. 12-Sept. 15		2	destiis, 8,029.
K aracni	. Deay 13-June 30	110	85	Plague rats, 5.
Do	Inly 1_Oot 6	1 118	103	
Madras Presidency	. May 13-June 30	254 3,390	141 2,053	
Modras Presidency Do	May 13-June 30 July 1-Oct. 6 May 6-June 30 July 1-Sept. 29	260	2,053	
Do	July 1-Sept. 29	319	279	
Indo-China				Oct 1-Dec 31, 1922: Cases, 245; deaths, 237. Sept. 1-30, 1922: 70 cases, 68 deaths.
011-		ı	1	deaths, 237. Sept. 1-30, 1922:
City— Saigon	June 24-30	5	5	Including 100 square kilometers
Langua		١	"	of surrounding country.
_ Do	. July 1-7	1	1	Do.
Province—	O-4 1 D-4 01	40	36	Preceding month, 15 deaths.
Annam	Top 1-Feb 28	47	39	riecanng mouth, is deaths.
Cambodge	Oct. 1-Dec. 31	145	145	Preceding month, 51 deaths.
Do	Jan. 1-Feb. 28	152	152	
Do	Oct. 1-Dec. 31 Jan. 1-Feb. 28 Oct. 1-Dec. 31 Jan. 1-Feb. 28 Oct. 1-Dec. 31	4 3	1 3	Preceding month, 4 cases, 2 deaths.
Do Iraq (Mesopotamia):	Jan. 1-Feb. 28	3	3	deaths.
Bagdad	May 1-June 30	335	224	'
Bagdad Basrah	Aug. 8-Sept. 4	4	2	
Java		• • • • • • • •	· • • • • • • • • • • • • • • • • • • •	May 1-June 30, 1923: Deaths, 912. July 1-Aug. 31, 1923: Deaths,
Province— Djokjakarta	Tuno 1 20		5	976.
Do Do	June 1-30 July 1-Aug. 31	•••••	4	
Do Kedoe	June 1-30		135	
Do	July 1-Aug. 31		231	
Pekalongan Do	June 1–30 July 1–Aug. 31		48 105	
Samarang	June 1–30.		143	
Do	June 1-30. June 1-30. Aug. 31. June 1-30. Aug. 1-31. do. July 1-Aug. 31.		260	
Do Soerabaya	June 1-30	•••••	1	
Do Soerakarta	Aug. 1-31	• • • • • • • • •	109	May 16, 1923: Epidemic in 5 dis-
Do	July 1-Aug. 31	•••••	374	tricts.
Madagascar				Apr. 1-June 30, 1923: Cases, 84; deaths, 81. July 1-Aug. 15,
Tananarive Province	Apr. 1-June 30	60	57	deaths, 81. July 1-Aug. 15, 1923: Cases, 11; deaths, 9.
Do Tananarive town		5 24	4 24	1923. Cases, 11, deaths, 5.
Do	July 1-Aug. 15	6	5	
Mauritius Island				May 4-21, 1923: 2 cases.
Port Louis	May 4	1		
Mexico: Tampico				Apr. 15-21, 1923: 1 plague rat. Aug. 8, 1923: At Dona Cecelia, a suburb of Tampico, 1 plague- infected rat found. From Jan.
Tampivo		•••••		Aug. 8, 1923: At Dona Cecelia,
				a suburb of Tampico, 1 plague-
				1 to Aug. 8, 1923, plague-
	l			infected rats found, 5.
Morocco:				<u>-</u>
Larache (El Araish)	Nov. 2			Spanish zone. Present. Aug. 31-Sept. 6, 1923: Cases, 4. In garrison of Dar-Kuebdani. Melilla district.
Melilla	Oct. 9	2		Aug. 31-Sept. 6, 1923; Cases, 4.
Calestine:				Melilla district.
Haifa	Sept. 18-Oct. 1	2		
Jaffa	June 19-July 16	10	1	Bubonic and septicemic.
Peru			• • • • • • • • • • • • • • • • • • • •	May 1-June 30, 1923: Cases, 111; deaths, 68. July 1-Sept. 30,
Locality— Ayabaca	May 16-June 30	15	13	1923: Cases, 43; deaths, 24.
Do	l liilt 1_21 l	4		• • •
DoCallaoDo	May 1-June 30 July 1-Sept. 30 May 16-June 30 July 1-Sept. 30	5	2 3 2 2 4 1 2	
Do Canete	July 1-Sept. 30	4	2	
Do	July 1-Sent. 30	3 7	41	
Cerro Azul	May 1-31	3	i l	
Cerro Azul Chiclayo Do	May 1-31 May 1-June 30 July 1-Aug. 31	9	2	
Do Cutervo	July 1-Aug. 31 May 1-15	6	4	
Guadaloupe	Sept. 1-30			Present.
Huancabamba	May 1-June 30	34	25	•
Huacho	July 1-31	1		
,	•			

Reports Received from June 30 to November 23, 1923—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued. Locality—Continued. Huaral. Do. Lima (city) Do. Mollendo. Reque. Salaverry. Trujillo. Russia. Senegal: Dakar. Rufisque Siam: Bangkok. Do. Siberia.	June 1-30. July 1-Sept. 30. May 1-31. July 1-Sept. 30. May 1-31. July 1-Sept. 30. June 1-30. Aug. 1-31. May 1-June 30. July 1-31. Aug. 6. Apr. 29-June 30.	2 3 17 14 7 7 3 1 1 11 2	2 1 8 8 4 2 1 1 3 3	Sept. 1-30, 1923: Present on country estates. Jan. 1-May 15, 1923: Few cases in Far East regions. Reported to have come from port of Rufisque, Senegal. Present. Sporadic cases of plague reported yearly in localities vicinity of
HaramborStation No. 83	May 6	1	1	yearly in roesintee vicinity of stations Matsievskaya and Borzia, Transbaikal Railway. Village in zone of endemic tarabagan (marmot) plague, Transbaikal region. Station on Transbaikal Railway. Marmot plague during recent years.
Soktu. Straits Settlements: Singapore. Do. Syria: Beirut. Do. Turkey:	May 6-June 30 July 22-Sept. 22 May 12-June 20 July 1-Sept. 30	6 4 3 7		Do.
ConstantinopleOn vessel: S. S. Crewe Hall	Aug. 19-Sept. 22 Oct. 15	1	2	On Aug. 16, 1923, 2 cases reported. At Catania, Italy. Patient embarked at Port Said, Egypt. Vessel left Vizagapatam, India, Aug. 29; at Colombo, Ceylon, Sept. 12: Aden, Sept. 23; Port Sudan, Sept. 25: sailed for New York, Oct. 15, 1923.
	SMAL	LPOX.	·	
	May 1-31. July 1-Aug. 10 May 27-June 2 July 8-Sept. 30 July 29-Aug. 4	2 3 8 1	2 2	
Azores:	July 15-21	7 .		Mild.

Apr. 1-June 30.... Aug. 1-Sept. 30....

Aug. 19-Sept. 22...

May 6-June 16.... July 1-Sept. 1.... May 13-June 23.... July 15-Oct. 20.... 2

5

6

46 25 46 3 6

4 3 10 Year 1921: Cases, 2; year 1922:

Jan. 1-Mar. 31, 1923: Present with

One case.

some mortality.

Bolivia:

Brazil: Bahia....

La Paz.....

Rio Grande do Sul.....

Do.....

Do.....Rio de Janeiro.....

Reports Received from June 30 to November 23, 1923—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa:				
Kenya— Mombasa	May 20-26	1		From vessel from Bombay,
Tanganyika	Apr. 20-June 9	J 3		Territory.
Do	July 1-28	27	6	Do.
Uganda	-	i	Í	1 -
Entebbe	Apr. 1-30	4		
Zanzibar				July 1-31, 1923: Cases, 7; deaths, 3.
Canada:		l	1	4
Alberta—	Mar 97 Tune 9		1	Infection from David Laday Mant
Calgary	May 27-June 2	1		Infection from Deer Lodge, Mont.
British Columbia— Vancouver	Mar 27_Tuno 30	33	1	1
Do	May 27-June 30 July 1-Sept. 15	15	î	1
Victoria	Aug. 5-25	1 2	1	
Manitoba-	1206.0 20	· -		l
Winnipeg	June 3-30	1	1	j .
Do	July 1-Oct. 27	6		•
New Brunswick—		ľ	1	
Kent County	July 1-7	1		<u> </u>
Ontario	l			June 1-30, 1923: Cases, 13. July
London	July 15-21	i		1-Sept. 30, 1923: Cases, 48.
Toronto	June 24-30 July 15-21	3		,
Do	July 15-21	1		
Quebec			!	l
Quebec	June 10-16	1		Varioloid.
Saskatchewan—		_		
Moose Jaw	July 8-14	1		
Regina	Jun : 24-30 Oct. 7-13	3		
Do	Oct. 7-13	1		
Ceylon:	Mare Tomas	~~	1	
Colombo	May 6-June 2	23		
Chile:	Man 22 Tune 11		3	June 1-30, 1923: Cases, 2. July
Concepcion	May 22-June 11	•••••	2	1-31, 1923: 1 death.
Do	Sept. 1-17 Aug. 12-18	····i	. ~	Landed from vessel.
TakahuanoValparaiso.	May 7-June 23	6	121	June 10-16, 1923: 29 cases reported
Varparaiso	May . vano so			from 2 districts.
Do	July 1-28	12	10	July 30, 1923: 25 cases in lazaretto.
20	- Louis - Loui			Aug. 6: 20 cases. Aug. 14: 60
			l	cases present.
China:			1	
Amoy	May 13-June 23 July 1-Sept. 29 May 14-20		3	June 19-25, 1923: Present.
Do	July 1-Sept. 29			Present.
Antung	May 14-20	1		
Canton				Jung 1-30, 1923: Present. July
				1-31, 1923: Present.
Chungking	May 13-June 30	• • • • • • •		Present and endemic.
Do	July 1-Sept. 29	• • • • • • •		Do. Present.
Foochow	May 13-Oct. 6 Apr. 29-June 30	98	82	Fresent.
Hongkong	July 1-Sept. 15	66	59	
Do Manchuria—	July 1-Sept. 15	- 00	35	
Dairen	May 21-27	1		
Harbin	May 21-27	5		
Do	July 1-Sept. 30	11		
Mukden	May 13–20 May 13–June 23	1		
Nanking	May 13-June 23			Do.
Do	June 24-Sept. 22]			Do.
Shanghai	May 21-June 3	4		Foreign.
Do	July 2-Aug. 26	1	4	Cases, foreign; deaths, Chinese.
Chosan (Korea):		_		
Chemulpo	May 1-31	1	. ,	
Fusan	May 1-June 30	4		
Do	July 1-31	22	6	
Gensan	May 1-31	1 42	13	
Seoul	May 1-June 30	42 7	9	
DoColombia:	July 1-Aug. 31	- 1	9	
Barranquilla	Oct. 15-21		1	
Cuba:	000. 10-21	••••••	- 1	
Antilla	July 8-14.		2	From Preston.
Czechoslovakia				JanMar., 1913: Cases, 15. Apr
Province-			1	June, 1923: Cases, 16; deaths, 4.
Bohemia	Jan. 1-Mar. 31	15	4 1	•

Reports Received from June 30 to November 23, 1923-Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Alausi	July 16-31	3		
Bahia	Sept. 1-15	4		
Esmeraldas	Aug. 16-Sept. 15	5		
· Guayaquil	May 16-31. Sept. 1-15.	8		
Monte Cristi (Manabi.)	do	20		May 16-30. 1923: Present.
Riobama	do May 16-30	1	·····i	
Rocafuerte	do Sept. 1-15			Do.
Santa Ana	Sept. 1-15	10		Thursday 11 11 11 11 11 11 11 11 11 11 11 11 11
Vinces.	do			Present in district.
Zaruma (El Oro)	May 10-30	[Hestin.
Egypt: Cairo	Mar. 12-July 1	24	8	
Esthonia				June 1-30, 1923: Cases, 4. Aug.
			l	1-31, 1923: Cases, 2.
Finland				May 1-15, 1923: 1 case. July 2-31,
			1	1923: 1 case. Aug. 1-31, 1923:
French Guiana		1	1	2 cases.
French Guiana				NovDec., 1923: Present. June 6, 1923: Present.
Cayenne	l		1	Year 1922: Present.
Great Britain:			1	2002 1022. 1100010.
Birmingham	June 18-30	3		Present.
Bristol	June 28			Present.
Cardiff	June 28. June 3–30. June 28.	6		
Gloucester	June 28		¦	123 cases reported in hospital;
Do	July 12	19		present in rural districts. July 15, 1923: Present. Aug. 9, 1923:
			l	33 cases in isolation hospital;
				two weeks previously about
				250 cases present in hospital.
London	Sept. 9-29	5	1	250 cases present in hospital. Sept . 22, 1923: Additional cases in
**			ŀ	Middlesex County.
Nottingham	June 3–9	1		May 1-31, 1923: Cases, 211.
DoSheffield.	July 8-Sept. 22 Sept. 16-22	6 3	•••••	*
Grecce:	Eept. 19-22	ა		
Athens	May 1-31	53		
Patras	Apr. 24-June 15		19	
Ealoniki	Apr. 30-May 20	2	2	
Do	June 25-July 8	2	3	Tesles 00 Asset A 1000s Through in
duadeloupe (west males)		• • • • • • •	•••••	July 22-Aug. 4, 1923: Present in
				cpidemic form. (Reported as alastrim.) Aug. 17, 1923: Stated to be officially declared present. Sept. 14-29: Epi-
			1	Stated to be officially declared
			i	present. Sept. 14-29: Epi-
				demic generally diffused. Oct.
Волго Пото	A 17 Oct 19			demic generally diffused. Oct. 13-24, 1923: Epidemic.
Basse Terre	Aug. 17-Oct. 13 Aug. 17	• • • • • • • • • • • • • • • • • • • •		
Tomica Fine	Aug. 17	•••••		Estimated from 2,000 to 3,000 cases. Sept. 2-8, 1923: 1,500
				cases present: 8 deaths reported:
•				Oct. 14-20, 1923: 1,000 cases
***				present.
HungaryIndia				July 15-Aug. 4, 1923: Cases, 28. Apr. 15-June 30, 1923: Cases, 8,112; deaths, 2,933. July 1- Sopt. 8, 1923: Cases, 9,329;
Bombay	Apr. 22-June 30	298	141	Apr. 15-June 30, 1923; Cases,
Do	Tuly 1_Sent 22	72	36	Sont 8 1023 Cases 0 320
Calcutta	May 13-June 9. July 1-Sept. 8. May 13-June 30. July 1-Oct. 6. July 1-Var. 6. May 13 June 92	12	9	deaths, 2,279.
Do	July 1-Sept. 8	19	14	400000, 2,2100
Karachi	May 13-June 30	24	8	
Do	July 1-Oct. 6	16	5	
Madras Do	May 13-June 23	91	16	
Rangoon	May 13-June 23 July 8-Oct. 6 May 6-June 30	58 125	17 67	
Do	July 1-Sept. 29	50	19	
Indo-China				Nov. 1-Dec. 31, 1922: Cases, 234;
City—				deaths, 68.
Saigon	May 20-June 30	34	23	Including 100 surrounding square
	T1 1 00			kilometers.
Do	July 1-28	31	18	Do.
Provinces— Annam	Nov. 1-30	3	1	
Do	Jan. 1-Feb. 28	10	i	
Cambodge	Nov. 1-Dec. 31	97	41	
Do	Jan. 1-Feb. 28	63	17 l	

Reports Received from June 30 to November 23, 1923—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China—Continued. Provinces—Continued.				
Cochin-China Do Laos	Nov. 1-Dec. 31 Jau. 1-Feb. 28 Feb. 1-28	125 231	34 67	A few cases.
Tonkin Do	Dec. 1-31	9 69	1 13	1210W CUSCO.
Iraq (Mesopotamia): Bagdad Do	Apr. 1-June 30 July 31-Sept. 4		11	
Italy: Leghorn Turin Do	Sept. 17–23 May 28–June 3 July 2–15	6		
Jamaica	May 27-June 30	39		May 27-June 30, 1923: Cases, 226. July 1-Oct. 13, 1923: Cases, 414.
Japan: Kohe	July 1-Oct. 13 May 28-June 10	47		(Reported as alastrim.)
Java: East Java	July 2–8	1		Aug. 26-Sept. 1, 1923: Cases, 36;
Soerabaya Do Soerakarta	Apr. 22-June 30 July 15-Sept. 15	187 128	22 21	deaths, 3. July 31, 1923: Epidemic.
West Java— Batavia Do	May 5-June 8 June 30-Sept. 7	17	3	Province. Do.
Latvia Martinique				Apr. 1-May 31, 1923; Cases, 8. Aug. 1-31, 1923, 1 case. May 26-Sept. 29, 1923; Present.
Mexico: Aguascalientes Chihuahua	July 8–14 June 11–24	7	1	
Guadalajara	July 22-Sept. 22 May 19-June 30	164	. 10	June 1-30, 1923: Cases, 15; deaths, 2. Including municipalities in Fed-
DoPalestine:	July 1-Oct. 6	204		eral district. Do.
Jaffa	June 5-11	1	2	District.
Tabriz Teheran	Feb. 22-June 14	••••••	. 30	Mar. 22-June 22, 1923: Deaths, 12. June 23-July 22, 1923: Deaths, 9.
Poland		•••••		Jr. 29-June 30, 1923: Cases, 1,861; deaths, 43. July 1-Aug. 12, 1923: Cases, 20; deaths, 6.
Portugal: Lisbon Do	May 20-June 30 July 1-Sept. 29	35 46	3 12	
Oporto	June 10–30 July 9–Oct. 27	6 73	3 56	
Angola— Loanda Do Rhodesia (British Africa):	Apr. 1-21 July 29-Aug. 18	2	2	
Northern Rhodesia Southern Rhodesia Siam:	May 8-14 May 3-16	21 4	8 2	
Bangkok	Apr. 29-June 30 July 1-Sept. 15	90 303	53 174	Apr. 22-Aug. 25, 1923: Cases, 329; deaths, 184. Sept. 8, 1923: Re- ported prevalent.
Sierra Leone: Freetown	July 16-31	1		Landed from S. S. Tsad, from Southampton via Las Palmas.
KaballaPujehunSambuyaSpain:	May 1-15	1 1 1		In Sembehun district.
Barcelona	May 31-June 6 June 28-Oct. 17 July 19-25		1 9 1	
SevilleValenciaDo	July 19-25 May 15-June 30 July 1-Oct. 20	44 15	10	

Reports Received from June 30 to November 23, 1923—Continued. SMALLPOX—Continued.

SMALLPUX—Continued.						
Place.	Date.	Cases.	Deaths.	Remarks.		
Switzerland:						
Basel	May 27-June 30	. 4				
Do	I Taslin O Asses OF	. 8				
Berne	May 20-June 30	. 11				
Do	May 20-June 30 July 1-Sept. 29. May 1-June 7 July 1-Sept. 30 May 20-June 23. July 15-Sept. 15	14		.]		
Luzerne	May 1-June 7	36				
_ Do	July 1-Sept. 30	18		ì		
Zurich	May 20-June 23	10				
Do	July 15-Sept. 15	9				
Syria:		١.	1	i		
Aleppo	July 15-31 May 15-June 11	6 7		1		
Damascus	Aug. 16-Oct. 2	lii	1	1		
Tunis:	1146. 10-000. 2		1 *			
Bizerta	June 10-20	1	1			
Tunis	June 11-17	l i		1		
Do	June 28-July 1	lî				
Turkey:	,	_	1	1		
Constantinople	May 13-June 26	l	45	1		
Do	June 27-Sept. 22	i	18	ĺ		
		_	1 -			
Union of South Africa			l	May 1-June 30, 1923: Cases, 66; deaths, 1 (colored). July 1-31, 1923: Cases, 17 (colored). May 1-31, 1923: Cases, 32 (col- ored). July 1-31, 1923: Cases,		
		1	1	deaths, 1 (colored), July 1-31,		
	,	l	1	1923: Cases, 17 (colored).		
Cape Province		l		May 1-31, 1923; Cases, 32 (col-		
			1	ored). July 1-31, 1923; Cases.		
		i .	İ	10 (colored).		
Do	May 6-June 30		1	Outbreaks.		
_ Do	July 1-Sept. 15			Do.		
East London	July 8-14	1				
Natal	αο			July 1-31, 1923: 1 case (colored).		
Orange Free State	Apr. 29-June 30			Outbreaks.		
Do				July 1-31, 1923: Cases, 4 (colored) Outbreaks.		
_ Do	Sept. 9-15			Outbreaks.		
Transvaal				May 1-31, 1923: 1 case. July 1-		
				May 1-31, 1923: 1 case. July 1-31, 1923: Cases, 2 (colored).		
Do	July 1-Aug. 31	• • • • • • • •		Outbreaks.		
Yugoslavia		•••••		July 1-7, 1923: Cases, 8; deaths, 1.		
Province		_				
Bosnia-Herzegovina	July 1-7	1				
Croatia-Slavonia	June 24-30	4	1	• •		
Zagreb	Julie 24-30	1				
Serbia	July 1-7	2 1	1			
Belgrade	Tuler 0 14	1	i			
Woivodina	July 8-14 July 1-7	i				
On vessels:	July 1-7	-				
S. S. Kargola	May 20-26	1		At Mombasa, British East Africa.		
D. D. Italgula	may 20-20			Vessel arrived from Bombay,		
	l l			Mar. 25, 1923.		
S. S. Makura	May 26	2	1	Two cases in quarantine (re-		
	may 20	-		ported as alastrim). Vessel		
1	1	- 1	· i	left Victoria, B. C., Apr. 28.		
1	4		i	Two cases in quarantine (reported as alastrim). Vessel left Victoria, B. C., Apr. 28, 1923. Touched at Honolulu.		
S. S. Tsad.	July 16-31	1		At Freetown, Sierra Leone,		
	,	- 1		Africa, from European and		
i	ı		ı	At Freetown, Sierra Leone, Africa, from European and West African ports.		
s. s	Aug. 12-18	1		Landed at Talcahuano, Chile.		
ı	j		J	•		
	TYPHUS	FEVER	.			
	1111105	1 43 4 1310	••	•		
						
Algeria:	ł	1	i			
Algiore	May 1-June 30	66	19			
AlgiersDo	A - CANO OV	₩	10	July 1-Sept. 30, 1923 Cases, 6;		
				deaths, 6.		
Argentina:		1	1	20000, 00		
Rosario	May 25-31.		3			
Bolivia:			9			
La Paz.	June 1-30	4				
Do	July 1-Sept. 30	18	3			
Bulgaria:	,, -, -, -, -, -, -, -, -, -, -, -,		- I.			
Sofia	Apr. 22-June 23	11	2	Paratyphus, 2 cases; 2 deaths.		
Do	July 15-Sept. 1	17	1	Paratyphus, 5 cases. Sept. 2-29,		
į.	- 1	i	- 1	1923: Paratyphus, cases 6.		
·	•			 •		

Reports Received from June 30 to November 23, 1923—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canary Islands:	Nov. 6			Present.
Teneriffe	Nov. 6			. Present.
Concepcion	May 22-June 18	.	. 8	
Do	Aug. 7–13		. 1	
Iquique Talcahuano	Sept. 2-8	i	. 1	
Valuaraiso	May 7-June 23	<u>.</u>	26	June 11, 1923: 34 cases in Salvador
Do	May 13–19. May 7–June 23 July 1–Aug. 24		48	June 11, 1923: 34 cases in Salvador Hospital. July 30, 1923: 45 cases in hospital. Aug. 6: 58 cases. Aug. 12-18: 82 cases stated to be present. Aug. 25- 88 cases in lazaretto.
China: Antung	May 28-June 24 July 16-Oct. 1	12		
Do Chungking	Aug. 26-Sept. 8			Endemic.
Chungking Hankow Manchuria—	May 19-25	1		
Harbin	May 6-13	1 2		
Do Mukden	Aug. 27-Sept. 2 May 14-20	2		
Czechoslovakia	,			JanMar., 1923 : Cases, 191:
Province—	A 4 T 00	8	Ī	JanMar., 1923: Cases, 191: deaths, 6. Apr. 1-June 30; Cases, 132; deaths, 4. Para:
Bohemia	Apr. 1-June 30 do	8		typhoid A, 1; paratyphoid B,
Russinia	do	98	i	20.
Silesia	do	1	1	
Slovakia Egypt:	do	23	2	
Alexandria	May 14-June 24	7	5	
Do	June 25-Sept. 16 Apr. 12-June 24 June 25-July 22	11	6	Paratyphoid fever, 2 cases.
Cairo Do	Apr. 12-June 24	144 12	29 9	
Port Said	Aug. 3–19	1		
Esthonia	••••••			June 1-30, 1923: Recurrent ty-
Finland	Cont 16 20	١.		phus, 1 case; paratyphus, 2
r inixiid	Sept. 16–30	1		Aug. 1-Sept. 30, 1923: Paraty- phus, 38 cases. Sept. 1-15, 1923: One case recurrent typhus.
France:				one one room one typhan.
Marseille	Mar. 1-May 31		3	
Germany: Coblenz	May 27-June 2		1	
Do	July 29-Sent 22	10		
Hamburg	May 20-26	3		G
Do	May 20–26. July 29–Aug. 4. May 13–June 2.	1 2		Case developed July 28, 1923, at Emigration Hall, Hamburg.
KönigsbergDo	Aug. 12-18. May 27-June 9.	ĩ		Emgration Hair, Hamburg.
Stettin	May 27-June 9	1	1	
StuttgartGreat Britain:	Sept. 2-22	4	• • • • • • • • • • • • • • • • • • • •	
Ireland—				
Cork	Aug. 19-25	1	1	
Greece	May 1_21	150	5	May 1-31, 1923: Cases, 876.
Do	May 1-31		ĭ	
Patras. Do	July 22–31. Apr. 24–June 15 Aug. 16–31		30	
Piræus.	May 1-June 30	356	2 11	
Do.	July 1-10	3		
Saloniki	July 1–10 Apr. 30–June 24	56	16	Apr. 33-May 27, 1923: Recurrent
Do	July 9-15	1		typhus: Cases, 3; deaths, 3.
Guatemala City	Apr. 1-June 30		5	
Hungary				Jan. 1-May 19, 1923: Cases, 318;
Budapest	Jan. 1–June 2 Sept. 2–8	48	12	deaths, 36. In 11 counties.
raq (Mesopotamia):	- 1	1	••••••	
Bagdad	Apr. 1-June 30 Aug. 8-15	3	·····i	
Japan: Nagasaki	July 2–8.	1		
ava: East Java—				
Soerabaya	July 29-Aug. 18	16	3	

Reports Received from June 30 to November 23, 1923—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Latvia				Apr. 1-June 30, 1923: Cases, 231; paratyphus, 5 cases. June 1-Aug. 31, 1923: Cases, 86; paratyphus, 11 cases; recurrent typhus, 1 case.
Guadalajara Do. Mexico City Do. San Luis Potosi	July 1-Sept. 29	1 2 75 142	1	Including municipalities in Federal District. Do.
Palestine	July 29-Aug. 4 May 22-28 June 26-Oct. 1 May 22-28	2 7 1	1	Aug. 14-2), 1923; One case, in northern district. Relapsing fever, I case
Persia: Tabriz Teheran Do Poland	Apr. 1-14. Feb. 22-June 14. July 1-22.	2	4 1	Mar. 4-Apr. 7, 1923: Cases, 2,253;
				Mar. 4-Apr. 7, 1923: Cases, 2,253; deaths, 172. Recurrent ty- phus: Cases, 338; deaths, 6. Apr. 20-June 30, 1923: Cases, 2,203; deaths, 177. July 1-Aug. 18, 1923: Cases, 544; deaths, 46. Recurrent typhus: Apr. 29- June 23, 1923: Cases, 337; deaths, 3. July 1-Aug. 18,1923: Cases, 102; deaths, 4.
Portugal: Oporto. Do Rumania:	June 10–16 July 1–21	1 3		•
Kishineff	May 1-June 30 Aug. 1-31	41 10		District. Jan. 1-Apr. 30, 1923: Cases,
European Russia and au- tonomous republics. Siberia, Caucasus, and Cen- tral Asia. Waterways and railways	Jan. 1-Apr. 30 do	9, 921 2, 934		Jan. 1-Apr. 30, 1923; Cases, 106,854. (Corresponding period 1922; Cases, 847,516, Fcb. 1-28, 1923; Cases, 17,577. Recurrent, Jan. 1-Fcb. 28, 1923; Cases, 43,510.
Spain: Barcelona. Do. Madrid. Do.	June 21-27		1 13 1 2	
Sumatra: Medan Switzerland: Zurich	May 1-June 30	i	- 1	Sept. 16-22, 1923: Paratyphus
Syria: Aleppo Do	May 20-June 16 July 15-21	4 3	2 1	fever, casés, 5.
Beirut. Tunis: Tunis. Do	May 1-10	3	2 2	
Turkev:	May 13-June 26	- 1	19 11	May 1-June 30, 1923: Cases, 230; deaths, 47 (colored). White-
Cape Province.				deaths, 47 (colored). White—Cases, 15; deaths, 1. Total, 245 cases, 48 deaths. July 1-31, 1923: Cases, 133 (colored, 132 cases; white, 1 case); deaths, 24. May 1-31, 1923: Cases, 49 (colored); white, 5. July 1-31, 1923: Cases, 94; deaths, 21 (colored);
Do Natal	Aug. 12-Sept. 22.			(colored). Outbreaks. May 1-31, 1923: One case (colored).

Reports Received from June 30 to November 23, 1923—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Contd. Orange Free State				May 1-31, 1923: Cases, 45 (colored). July 1-31, 1923: Cases 36; deaths, 3 (colored). On
Do _ Do	May 6-June 16 Aug. 12-Sept. 29			case in white population. Outbreaks. Do.
Transvaal. Johannesburg Yugoslavia	May 1-June 30	4	4	May 1-31, 1923: Cases, 7. July 1-31, 1923: Cases, 2 (colored). July 1-7, 1923: Cases 4.
Province— Bosnia-Herzegovina Croatia-Slavonia—	July 1-7			
Zagreb Serbia— Belgrade	May 27-June 2 Aug. 12-18	1		
	YELLOW	FEVE	R.	
Brazil: Bahia Do	May 13-June 30 July 1-Sept. 8	25 13	6	
Colombia: Bucaramanga	June 25-Aug. 26			Present.