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## THE WORK OF THE UNITED STATES PUBLIC HEALTH SERVICE

The United States Daily, published in Washington, and presenting the official activities of our National Government, started, on October 25, 1926, a series of articles, each one a brief sketch of the work of a bureau or office of the Government. The Public Health Service was selected as the first Government bureau to be described. The eight service articles appeared as copyrighted material in the issues of October 25 to 30, and November 1 and 2, 1926. Each article was prepared by a staff writer of the United States Daily after an interview with the Surgeon General and the Assistant Surgeons General in charge of each of the seven divisions of the bureau. The Public Health Service is reprinting these eight articles with the permission of the United States Daily, for the information of health officers and sanitarians.

### UNITED STATES PUBLIC HEALTH SERVICE

Personal well-being is so obviously an individual and personal characteristic that it is frequently a little difficult to convince a citizen living on the Pacific coast that his health is affected by the activities of an agency of the Federal Government 3,000 miles away. In fact, save in times of epidemic, the average citizen is likely to take little interest in the activities of his local health officials, to say nothing of those of the State or Nation. When there is an outbreak of some contagious disease in his community, he becomes intensely interested in methods of preventing the spread of the contagion. But when the outbreak has abated this interest wanes, and that is why there is another outbreak at some later date.

"In time of peace, prepare for war," was the advice of one whom the world generally concedes to have been wise. And it is advice which can be adapted profitably to the work of those charged with the protection of that vital but rather nebulous thing called public health. Preparation for war in the political and military sense does not mean merely storing up supplies of arms and munitions such as were used in the last war. If it did, modern nations would be using clubs instead of tanks, and bows and arrows instead of poison gas and heavy artillery. Preparation for war means constant efforts to improve weapons and constant diligence to prevent the outbreak of

hostilities; or, if the latter is impossible, then an effort to so localize the outbreaks as to reduce the enemy's potentialities for damage to a minimum.

It is the duty of public health authorities not only to fight epidemics and diseases while they are actually present but to devise means of preventing epidemics and diseases. This is the reasoning back of the elaborate and far-flung system of disease prevention and control which, in the aggregate, is the United States Public Health Service.

In carrying out its duties the Public Health Service employs more than 8,000 men and women, and expends appropriations aggregating more than ten and a half millions of dollars annually.

The organization now known as the Bureau of the Public Health Service had its origin in the Marine Hospital Service, which was established by an act of Congress approved July 16, 1798. This act authorized the President to nominate and appoint medical officers to furnish care to sick and disabled seamen at such ports and other places in the United States as presented needs for services of this nature. It was provided that this care might be given either in hospitals maintained by the United States or in civilian institutions with which contracts might be negotiated.

A tax of 20 cents per month to be collected by collectors of customs from all seamen employed on American vessels engaged in foreign and coastwise trade was the method prescribed by the early legislators for the financing of their first step in safeguarding the public health. It is for this reason that the Public Health Service is a part of the Treasury Department to-day.

The first marine hospital built under the authority of the act of 1798 was at Norfolk, Va., in 1800. In 1802 a hospital was built at Boston, and others followed both along the Atlantic seaboard and along the Mississippi and Ohio Rivers and the Great Lakes.

Necessarily, in caring for sick and disabled seamen in American ports, the medical officers appointed to serve in these early marine hospitals became familiar with the diseases brought into the country from abroad. It frequently happened that these medical officers were the first physicians to diagnose such diseases as cholera, yellow fever, and smallpox, which threatened the welfare of ports of entry. This was particularly true in southern ports, then exposed to frequent dangers from yellow fever.

During epidemics in the early days the Marine Hospital Service frequently received presidential authorization to aid local health authorities in relief and control measures. The marine hospitals and some of the medical personnel as well were used by both the North and South during the Civil War for the care of the military forces.

Gradually, Congress began to extend the functions of the Marine Hospital Service, and to make of that organization a Federal health service. In 1878 the service was given authority to impose quarantine to prevent the entry of disease into the United States from abroad. It was not until 1890 that authority was given to impose quarantines to prevent interstate spread of disease, and then the authority was limited to the prevention of cholera, yellow fever, smallpox, and plague. In 1893 this authority was extended to cover all infectious and contagious diseases, and provision was made for cooperation with State and municipal health agencies.

Congress recognized the value of military discipline in an organization which had to combat epidemic diseases, and in 1889 authorized the organization of the Marine Hospital Service along military lines, with officers holding commissions in grades similar to officers of the medical department of the Army.

In 1902 the name of the organization was changed to "The Public Health and Marine Hospital Service," and in 1912 this name was changed to that now borne by the service.

While the public health functions of the service had their inception in the prevention of the introduction and spread of quarantinable diseases, their development was largely the result of changes in public opinion. Investigative functions began with inquiries into the causes of such diseases as yellow fever and cholera. In 1902 the Hygienic Laboratory was established, and to-day this institution is recognized as one of the foremost research centers in the world.

The functions of the service may be summarized as follows:

1. Furnishing medical service to American seamen and other beneficiaries.
2. Protection of the United States from the introduction of disease from without.
3. Prevention of the interstate spread of disease and suppression of epidemics.
4. Cooperation with State and local boards of health as well as with Federal agencies in health matters.
5. Investigation of diseases of man.
6. Supervision and control of biological products.
7. Public health education and dissemination of health information.

One of the functions exercised by the service—that of supervision and control of biological products—is of tremendous importance. It means that all viruses, vaccines, therapeutic serums, toxins, anti-toxins and analogous products applicable to the prevention and cure of diseases of man are tested by the service for purity and potency. The value of such products supervised by the service in one year is well over \$10,000,000.

As organized at present the Surgeon General administers the affairs of the Bureau of the Public Health Service through seven administrative divisions. These are: The Division of Marine Hospitals and Relief, the Division of Domestic Quarantine, the Division of Foreign and Insular Quarantine, the Division of Personnel and Accounts, the Division of Sanitary Reports and Statistics, the Division of Scientific Research, and the Division of Venereal Diseases.

#### Division of Scientific Research

Save for his superior mental capacity, man enjoys no particular advantage over other forms of life in the struggle against disease. Therefore his most important weapon in that struggle is the application of that mentality to methods of promoting his health. The most effective method of that application devised so far is scientific research through the experimental method.

Granted that the necessity for research exists, the question then presents itself as to whether or not the Government should engage in research. Experience and reason both command an affirmative answer.

While it is true that in the United States as elsewhere a large amount of research connected with the safeguarding of public health is carried on by private agencies, there are, nevertheless, compelling reasons why the Government itself should be represented in this field.

A careful analysis will show that by far the greater part of the research work conducted under private agencies is directed to the solution of problems that are almost entirely local or problems pertaining to curative rather than to preventive medicine. On the other hand, the Government, being interested in the welfare of the entire population, concentrates its efforts upon problems affecting large groups and upon preventive rather than curative methods. Occasionally there is an overlapping, as in the case of syphilis, where to cure one case is to prevent another.

The Government also has a duty to perform in checking up on the results of outside research to determine whether or not much of this information can be recommended for general guidance and in formulating scientific information for administrative purposes. Then, too, there are certain problems which no private agency is equipped to solve. These are problems requiring observations widely distributed in a geographic sense and other problems which can be solved only by concentration of many different research activities working in cooperation and simultaneously. In addition to all of these reasons, there is, of course, the Government's obligation to promote the welfare of the people—an obligation which is not shared by outside private agencies, which, properly enough, have their own ends in view in many of their activities.

Recognizing the necessity and propriety of governmental research in the public health field the Congress in the act of August 14, 1912, provided that:

"The Public Health Service may study and investigate the diseases of man and conditions influencing the propagation and spread thereof, including sanitation and sewage and the pollution, either directly or indirectly, of the navigable streams and lakes of the United States."

An earlier act of Congress had established the Hygienic Laboratory in Washington, the scene of an important part of the research activities carried on by the Division of Scientific Research of the Public Health Service.

The scope of the division's activities may be described as follows:

1. The investigative functions have been extended to include every major topic of public health interest. The approaches to the problems have been from several standpoints—(a) of the basic sciences in the laboratory; (b) of clinical study; (c) of epidemiology; (d) of sociology and economics; (e) of vital statistics; (f) of public health administration.

2. The control function (biologic products), authorized by the act of July 1, 1902, has extended to the limitations of the act in so far as permitted by the funds appropriated. It has included researches necessitated by adequate control. The control of biologic products necessitates inspections in many parts of the United States and in those European countries where these are necessary.

The activities of this division have carried its agents into every State in the Union, the insular possessions of the United States, Mexico, and several countries of Europe.

In addition to those activities which it carries on independently the division does not hesitate to cooperate with other agencies doing work within its field. In exchange for opportunities for research and access to material the division always stands ready to cooperate with any Government agency in the solution of problems relating to public health, subject to the consideration of relative importance in terms of service to the country and also subject to limitations of funds and personnel. This same readiness applies to nongovernmental organizations with the additional considerations of their aims, purposes, and good faith.

At various times the division has cooperated in research with many public and private agencies, including the Bureau of Mines, the Bureau of Standards, Johns Hopkins University, Yale, Harvard, the National Research Council, many manufacturing and industrial organizations, and the State boards of health of the various States of the Union.

A topic is considered eligible for investigation by this division provided it is of public-health interest, and if funds and personnel are available, under the following circumstances:

1. The subject is of widespread significance and no adequate solution is at hand.

2. Other agencies are not studying the subject, or at least not from the standpoint of public health.

3. The subject threatens to become of widespread importance, rendering anticipatory research advantageous.

The principal activities of the division at present include:

Studies of a number of diseases of man, including cancer, clonorchiasis, encephalitis lethargica, goiter, influenza, leprosy, malaria, nutritional diseases, pneumonia, Rocky Mountain spotted fever, trachoma, tuberculosis, tularæmia and typhus fever; investigations on the subjects of administrative health practice, child hygiene, drug addiction, industrial hygiene and sanitation, mental health, milk, morbidity, oxidation reduction, stream pollution and salt-marsh mosquito control; and studies and inspections required for the regulation of interstate traffic in biologic products.

#### **Division of Marine Hospitals and Relief**

The Division of Marine Hospitals and Relief is part of the Bureau of the Public Health Service which performs the functions for which the service was established by Congress in 1798. At that time, indeed, the organization was known as the Marine Hospital Service; the idea of a Federal health department was something entirely outside the ken of political thought in the infant Nation.

From time immemorial it has been the law of the sea that vessels must provide medical attention for seamen. Hence, when the Congress wished to encourage the embryonic merchant marine of the newborn Republic, one of the means it took was to relieve the ships of the burden imposed by this requirement.

Thus it came about that some of the earliest institutions established by the Federal Government were marine hospitals. Marine hospitals antedated naval hospitals and, in the early days, the former took care of officers and men of the Navy. The first marine hospital in Boston, which, incidentally, was the first general hospital in that city, furnished hospital care for wounded who fought under John Paul Jones.

The earlier hospitals were primitive affairs according to modern standards. Medical knowledge has advanced greatly in the past 137 years and the marine hospitals have kept abreast of the times. Attending specialists augment the regular staff of medical officers; trained graduate nurses and dietitians, as well as skilled physiotherapy aides, are employed. The medical and surgical work of the marine

hospitals compares favorably with that of representative hospitals in their respective ports, although some of the hospitals are architecturally obsolete. For instance, the present marine hospitals at New Orleans and San Francisco, built just after the Civil War, were products of a school of thought and medical knowledge which held that hospitals must be of the flimsiest possible construction so that as soon as they became infected with hospital gangrene or some similar unwelcome visitor, the building could be burned. These two hospitals, "built to burn," are still standing awaiting sufficient funds to substitute fireproof structures. It is a marvel that they have not long since realized the purpose for which they were built. Probably, the only reason these structures have not been burned is the ceaseless care with which they are guarded by a well-disciplined personnel. In all the years of the existence of marine hospitals not a single patient has been burned to death in a hospital fire—a most surprising record, particularly when the type of some of the early structures is considered. Hospital fires have occurred, however; the first Chicago Marine Hospital was destroyed in the great fire of 1871.

The marine hospitals in the beginning were financed through a tax of 20 cents per month, later increased to 40 cents, deducted from the wages of each seaman and collected by the collector of customs. Subsequently this was replaced by a tonnage tax and finally by direct appropriations out of the Treasury. It has been nearly 50 years since the 40 cents per month tax was collected, but aged sailors still sailing the seas and coming into the hospitals recall that they helped build these institutions out of their own wages.

There are 25 marine hospitals to-day in various ports of the United States. The policy of the Government is to build such hospitals only in ports where it is more economical to have Government-owned buildings than to provide hospital care through contractual arrangements with private institutions. Provision for the care of seamen is made in 150 ports of the United States and insular possessions and there are always between 3,000 and 4,000 sailors in hospitals under the supervision of this division.

The growth of the merchant marine and the general increase in the population of the United States have been reflected in the expansion of marine hospital functions. More than 300,000 persons annually now apply for treatment or examination at these hospitals or out-patient offices. There were furnished last year 1,321,309 patient days of hospital care and 572,139 out-patient treatments, the latter item including the vaccination of 35,719 beneficiaries against smallpox and typhoid.

Dentistry, a modern hospital necessity, is supplied by 30 full-time dental officers who last year gave to 30,811 beneficiaries 110,320 treatments. In the marine hospital laboratories 192,308 bacteriological

and other clinical laboratory examinations were made, and 37,535 X-ray exposures made for diagnostic purposes.

The marine hospitals are open to personnel of the Army, Navy, and Coast Guard, to patients of the United States Veterans' Bureau, and to injured employees of the United States Government receiving care under the supervision of the Employees' Compensation Commission. The hospital on Ellis Island, New York City, is operated chiefly for diseased immigrants detained by the immigration authorities. It is also the policy of the Government to allow foreign seamen to enter marine hospitals as pay patients when a request is made on their behalf by the master of a foreign vessel or by a foreign consul.

It costs a little more than \$5,000,000 per year to maintain the marine hospitals. Approximately \$500,000 a year is returned to the Government for the various classes of pay patients, including immigrants. The average cost of operation per patient per day has been reduced from \$4.08 in 1923, \$3.84 in 1924 and \$3.80 in 1925 to \$3.71 for the fiscal year ended June 30, 1926. This is lower than the average cost of operation of hospitals belonging to the Army, Navy, or the Veterans' Bureau, and considerably less than that of civilian hospitals furnishing equivalent services and having trained nurses and salaried staffs of physicians and surgeons.

An idea of the costs of operation may be obtained from the figures showing some of the expenditures for hospital supplies during the past fiscal year. Some of the items are adhesive plaster, \$4,347.45; salvarsan and other supplies used in the treatment of syphilis, \$6,410.43; gauze and surgical dressings, \$17,536.28; ether and other anesthetics, \$1,786.98; catgut ligatures for surgical operations, \$2,656.23; soap, \$25,855.23; clinical thermometers, \$2,714.55; X-ray films, \$15,707.85; insulin, \$1,794.

The item for the purchase of insulin suggests the remarkable progress which has been made in the treatment of diabetes since the use of this remedy was initiated. Since its use was introduced there has been a constant increase in the number of diabetes cases admitted to marine hospitals and a constant decrease in the number of deaths. The figures are, 1923, 78 cases and 23 deaths; 1924, 97 cases and 12 deaths; 1925, 108 cases and 9 deaths; 1926, 110 cases and 5 deaths. The figures refer to fiscal years.

Starting out merely as an agency doing relief work for seamen, the Public Health Service has expanded and acquired manifold and varied functions. It was natural for quarantine duties to be added, together with other functions relating to the safety of ships and the welfare of their personnel. It became the agency which examines applicants for license as pilots and other ships' officers who must pass satisfactory tests for vision, color vision, and hearing. Lighthouse keepers are also required to pass similar examinations before they are



appointed. The Public Health Service must also vouch for the physical ability of sailors qualifying as "able-bodied seamen," of which the crew of an American ship must have not less than 65 per cent; and since ships' officers must be versed in first aid before licensed by the Steamboat Inspection Service, courses of instruction have been organized in 43 ports where medical officers give the necessary instruction preliminary to examination of the candidates in this subject. The physical examinations, which number nearly 100,000 yearly, include those of the United States Coast Guard recruits, the United States Civil Service, Pension Bureau, and Army training camps.

All medical service for the Coast Guard is furnished by the United States Public Health Service, which also sends its medical officers with the cruising cutters on the Alaska seal patrol and the North Atlantic ice patrol, and wherever else these ships may go.

Alcoholic liquors and narcotics required for medicinal use on board any American or foreign ship in an American port are purchased or otherwise authorized by an officer of the Public Health Service in amounts according to the governing medicinal needs.

At Fort Stanton, N. Mex., a marine hospital is maintained for tuberculous patients where provision is made not only for medical treatment but also for employment of patients who are approaching fitness for discharge. These latter are employed for several months in order to make sure that their return to health has been permanent. Only those tuberculous patients who are expected to recover are sent to Fort Stanton; the others are treated in various port hospitals.

The National Leper Home at Carville, La., is operated by the Public Health Service. There are now about 270 patients there, culled by State health officers from the population at large. Treatments by chaulmoogra oil, X ray and mercurochrome, by violet ray and other lights, as well as by hydrotherapy and many other agents, have yielded encouraging results and some cures are effected. The radio, baseball, moving pictures, a library, a school and religious solace furnished by chaplains and chapels for both Catholics and Protestants bring some measure of contentment to the inmates. Leper patients physically fit are employed by the Government at nominal pay in light occupations at this institution, thus providing some diversion and a small means of income to those unfortunates, who are, however, clothed and otherwise well cared for at Federal expense.

From 1919 to 1922 the Public Health Service was designated as the principal agency to care for World War veterans in need of hospital care. To do this the service rented hospital space, converted hotels and other buildings to hospital uses, and, in general, did the best it could to meet an unprecedented situation which confronted it unexpectedly.

In 1922, when Congress assigned this work to the Veterans' Bureau, the Public Health Service turned over 57 hospitals with 17,500 beds, 900 physicians, 1,400 nurses, and 9,200 employees. More than a million veterans passed through these hospitals during the time they were under the supervision of the Public Health Service.

The marine hospitals, in addition to their other functions, may be considered as a second line of defense behind the foreign quarantine division in preventing the entry of quarantinable diseases into the country. For example, only recently, a seaman at New Orleans applied to the marine hospital there for treatment. It was found that he was suffering from bubonic plague. The quarantine officials were notified at once and his ship was thoroughly fumigated to destroy the rats and fleas through which this disease is transmitted. Under similar circumstances a seaman who had been admitted at San Francisco was found to be suffering from smallpox. Such cases are rare, of course, because the quarantine regulations are most efficiently administered.

Recently the marine hospitals have made it a practice to transmit medical advice to ships at sea by wireless. These messages must, for the present, at least, be transmitted through commercial stations, but the latter have been very generous in giving this service without charge. It frequently happens that the advice thus given besides aiding the patient enables the ship to continue on its course instead of putting in at some unscheduled port with consequent loss of valuable time and great inconvenience to passengers.

#### Division of Foreign and Insular Quarantine

The right of one community to protect the health of its members by excluding outsiders afflicted with communicable diseases has been recognized and exercised since the dawn of history. So well established is this right that the principle has never been questioned in all of the countless controversies which have raged over its application to specific cases. Quarantines have been enforced as to individuals, cities, and nations, by methods ranging from religious tabus of the primitive races to the bayonets and warships of the modern and more materialistic peoples.

Geographically, the quarantines of antiquity and, indeed, up to very recent times, were comparatively limited. The methods by which the great scourge diseases were transmitted were not understood and, in many cases, it was thought that so long as physical contact with the diseased persons was avoided, the disease would not spread.

Two chief factors have combined to increase the geographic area of quarantines in modern times. The first is the discovery of the methods whereby diseases are transmitted, and the second is the

development of means of transportation which facilitate the transportation of disease bacilli as well as persons and property.

Thus it comes about that all modern civilized States now recognize the need for national quarantines and national agencies to enforce the quarantine regulations. The United States, due to the peculiar relationship between the individual States and the Federal Government, was one of the last of the great powers to put a national quarantine system into operation. In the early years of the Nation's existence the contention was advanced—and upheld by the courts—that the imposition and enforcement of quarantine regulations was an exercise of the police power reserved to the States.

Quite early in its history the Public Health Service was authorized to advise and cooperate with the State health authorities. Gradually this developed to a point where the various States came to realize the advantages of a central system for foreign quarantines and one by one the State legislatures voluntarily turned that function over to the Federal authorities. The Public Health Service now administers the quarantine at all ports of the United States, and this work is done through its Division of Foreign and Insular Quarantine.

This division has two major functions—prevention of the entrance of diseases from foreign countries into the United States, and medical inspection of aliens applying for admission to the United States as immigrants. In the exercise of the first-mentioned function the division has jurisdiction over all ships and all persons, citizens, and aliens coming into American ports from abroad. The second function, of course, has to do with aliens only. In practical operation it has been found necessary to separate the two functions from an administrative standpoint. This was done because in its inspection of immigrants the Public Health Service acts, more or less, as the agent for the Immigration Service of the Department of Labor. The work of the Health Service ceases, with respect to an immigrant, when he has been certified to the immigration authorities as either admissible or inadmissible physically. On the other hand, the Public Health Service has entire charge of the quarantine work at the ports.

There are three lines of defense against the quarantinable diseases cholera, plague, yellow fever, typhus fever, leprosy, smallpox, and anthrax. The first line consists of the public health physicians stationed abroad and working in cooperation with the consular officers to prevent diseases in any form from embarking on vessels bound for the United States; the second line is the system of inspection at the various ports of entry; and the third line is the cooperation between the Public Health Service and local health authorities, especially those at ports of entry, in "follow up" work.

The Public Health Service, once the diseased person has been admitted to the United States, can control only interstate travel of such person. A system of cooperation has been established with city and State health authorities to follow cases released at the ports, such as diphtheria and other nonquarantiable diseases, and to notify the health officer, who cares for such a person until he is taken over by the local health authorities.

Methods of preventing the entrance of quarantinable diseases vary with the diseases, as each spreads by different means and must be blocked accordingly. In the case of cholera, where the avenue of transmission is from person to person via the alimentary tract, the method is to prevent the entrance of any persons suffering from the disease. The work is complicated by the fact that certain persons seem to be immune from cholera themselves but can carry the germs of the disease and transmit them to others. These persons, known as carriers, are more difficult to guard against than persons actually suffering from the disease since the former may be entirely unaware of their condition. Cholera carriers are denied admission to the United States until they are noncarriers, and persons who have been exposed are detained long enough to determine whether or not they have been infected. Cholera, together with all of the other quarantinable diseases except typhus, leprosy and smallpox, has been exterminated in the United States.

Yellow fever, long the terror of the South, is probably the best example which can be cited of a disease almost entirely wiped out of existence by science. At one time there were periodic outbreaks in every southern State and throughout Central and parts of South America, but now the disease is found only in a few isolated districts. The fight against yellow fever was won when it was discovered that the disease is transmitted through one particular species of mosquito, the "*Aedes ægypti*," generally known as the Stegomyia. Once this was ascertained the problem became the elimination of this mosquito on ship and its control on shore. The Stegomyia can fly but a short distance and breeds in fresh water about houses, which make it exceedingly vulnerable to careful control. Since the discovery of the method whereby yellow fever is transmitted, there has been only one outbreak of it in the United States, in 1905.

Plague, another quarantinable disease which claims its victims by the thousands in many parts of the world, is of two varieties—pneumonic and bubonic. The former, while very deadly, has occurred chiefly in Asia, only two outbreaks having occurred in this country. The bubonic variety is an ever present danger for nearly every port in the world. Just as yellow fever was found to be transmitted by the mosquito, so it was found that bubonic plague is transmitted through the combined agency of rats and fleas. The

rats themselves are subject to the plague; the fleas live on the rats until the latter die and then the fleas attack any warm-blooded animal, including man, and pass the disease along. Fleas, however, specialize, and different animals have their own species that will live on no other animal except in emergencies. Thus, rats have several varieties, and while all of them theoretically can transmit plague, practical observations and experiments now under way indicate that for practical purposes there is only one or possibly two species of fleas that need be considered. Fumigation of ships to rid them of rats and fleas is one of the methods employed, and considerable progress has been made; but in its search for better methods the Public Health Service has developed the rat proofing of ships, which, if successful, will be a surer and more economical way to remove this danger altogether.

Smallpox is now combated at ports chiefly through the use of the immunity reaction, which indicates whether or not a person may contract the disease. This is effective as a method of determining whether a previous vaccination is still effective and still retains its potency. Persons who have not been vaccinated or whose vaccinations are no longer active submit to another vaccination if they have been exposed to smallpox. No coercion is employed to induce persons to submit to vaccination, but if they are not vaccinated they must be detained in quarantine for 14 days. They rarely remain for that period, but ask to be vaccinated. Smallpox has been one of the historic scourges of man for centuries. Since the discovery of vaccination, about 100 years ago, the ravages of this disease have been curtailed to a remarkable degree, and it could be practically eliminated if vaccination were universal, but experience shows that neglect of this preventive is sooner or later always followed by a recrudescence.

Typhus fever is transmitted by body lice carrying the infection from one person to another. Hence, the method employed in fighting it is to destroy the lice. Just after the World War, when typhus was widespread in Europe, and when it was estimated that 3,000,000 persons died from it in five years, it was asserted by those in touch with the situation that the peasant classes of Europe were practically 100 per cent infested with body lice. It was at this time that the steamship companies installed their delousing plants on advice of quarantine officers stationed abroad, and all persons arriving were scrubbed and disinfected, if not scrupulously clean. At present less than one-tenth of 1 per cent of the persons arriving at American ports are found to be infested, and it is reported that on account of the requirements of the United States Public Health Service there has been a great improvement in conditions abroad, particularly in places where body lice had long been accepted as a matter of course.

Anthrax is much less important. It has been demonstrated that this disease has been frequently transmitted to man through infected bristles of shaving brushes. Consequently, all shaving brushes imported to the United States must be made from bristles that have been disinfected.

Leprosy, the other quarantinable disease, is treated in a manner somewhat different from the others. It is still the same enigma to science that it has been for centuries. Some progress has been made in the treatment of leprosy through the injection of chaulmoogra oil derivatives, but the nature of the disease and how this treatment is of benefit are still unknown. When a leper arrives at an American port he is sent to the Federal Leprosarium at Carville, La., if he is an American citizen. If he is an alien he is deported. This disease does not present the problems of rapid incubation and free transmission that occur in connection with the other quarantinable diseases.

Persons found suffering from diseases in the quarantinable group are cared for in the Public Health Service hospitals until danger of transmitting the disease to others is past. Then, if they are American citizens, they are released. If they are aliens they are passed on to the immigration authorities.

In cooperation with the Department of Labor the Public Health Service, through its Division of Foreign Quarantine, makes the physical examinations for all prospective immigrants. During the fiscal year ending June 30, 1926, the officers of the division examined 614,972 applicants for admission and 872,842 alien seamen. Many of these examinations of immigrants were made abroad under the new system inaugurated in 1925, which has eliminated most of the heartaches and suffering of the old system and has excluded the unfit to an extent never before possible.

So far as physical condition is concerned, prospective immigrants are divided into three classes: Class A, those having defects which make them mandatorily excludable under the law; class B, those whose defects are not such as to make exclusion mandatory, but which may interfere with the applicant's ability to earn a living; and class C, those having minor defects which do not affect their admissibility but which are noted, nevertheless.

#### **Division of Sanitary Reports and Statistics**

It is a fundamental principle that in any warfare the success of the conflict largely depends upon our knowledge of whether there be an enemy, when, where, and in what numbers he may be found, and so in the fight against disease from a public health standpoint, whether it be municipal, State, national or international, it is of fundamental importance that responsible officials have early, accurate, and com-

plete knowledge as to the presence or absence of the important communicable diseases. In the absence of such knowledge there will be either a lack of vigilance, which may end in disaster, or, what is of vast importance in these days of commercial enterprise and rapid communication, there will be a futile and unnecessary expensive outlay against a supposed danger which does not exist.

This has, within the past few decades, been brought out, particularly in the matter of yellow fever. So long as infectible countries, such as ours, knew of the general existence of yellow fever but did not know the exact endemic centers of this disease, elaborate precautions had to be taken at our maritime quarantine stations against all yellow-fever-suspected areas, whereas, at present, with our intelligence service, such precautions have been waived with benefit to commerce.

The collection and dissemination of information concerning the prevalence of disease is of increasing importance in this age of speedy transportation facilities. For instance, it is possible that a person infected with typhoid fever may, even by motor, traverse the entire width of the country before the completion of the incubation period of this disease.

The division of sanitary reports and statistics of the Public Health Service may well be described as the intelligence office of the Federal health agency, whose intelligence, however, is used throughout the world by other governments, as well as by our own local and State agencies. Broadly speaking, the work of this division has two general phases—first, the collection from all parts of the world, including our own country, of information having a bearing on the maintenance of public health, and, second, the dissemination of this information in such manner and to such persons and organizations as will make it most valuable. Between the collection and dissemination of information there is, of course, the very important work of compilation.

The information employed by the division is secured from many sources, local, State, Federal, and international. To begin with, every consul and consular officer stationed abroad makes a weekly report to the Public Health Service as a part of his routine duties. The reports are made on forms provided by the Public Health Service and bearing a list of the more important communicable diseases. The consular officer obtains reports from health officials of the country to which he is accredited, and from these reports and such other sources as are available he fills in the information required on the form and mails it to the Public Health Service. These reports by mail cover the following diseases: Cerebrospinal meningitis (epidemic); cholera, Asiatic; cholera nostras, cholera, or gastroenteritis; diphtheria; measles; plague, human; plague, rodent; poliomyelitis (acute anterior poliomyelitis or infantile paralysis); scarlet fever;

smallpox; tuberculosis; typhoid fever (enteric fever, typhus abdominalis); typhus fever (typhus exanthematicus); and yellow fever.

In cases where there is an outbreak of plague, cholera, yellow fever, or typhus fever in his territory the consul promptly cables this information, instead of mailing it. Owing to this method of transmitting information it occasionally happens that a ship which has left a foreign port before one of these outbreaks reaches an American port in ignorance of the fact, and the master of the ship gets his information concerning the disease from the American health authorities.

Cholera, plague, yellow fever, typhus, smallpox, leprosy, and anthrax are classified as quarantinable diseases. This means that when a ship reaches port from an area in which there has been an outbreak of one of them, or with a case of one of these diseases on board, there are special measures of disinfection and segregation which are taken to prevent any spread of the contagion or infection in the United States.

Reports from consular officials abroad are the principal sources upon which the Public Health Service depends for what may be distinguished as its current information on world health conditions. In addition, however, the service receives all of the bulletins and other documents issued by the health section of the League of Nations, the International Hygiene Office in Paris, and similar agencies. Most of these, of course, are at least a month old when they reach the United States, but they are valuable records for statistical purposes.

The United States has what is called sanitary treaties with all of the important nations of the world (International Sanitary Convention of Paris), as well as a regional agreement with Pan American countries (Pan American Sanitary Code). These sanitary agreements, which have the force of treaties, provide for an international exchange of information relating to public health. This means that all of the nations of Central and South America receive regularly all the data on public health gathered by the world-wide information system of the United States, this information being cabled in case of emergency conditions. This is of immense value to some of the small States which do not have their own facilities for such purposes. This activity at the present time is largely an "export" business so far as the United States is concerned, but from some countries reciprocal reports of great value are received.

In the domestic field the Public Health Service is kept informed of conditions by weekly reports mailed in from local health officials in 570 cities of 10,000 or more population. These reports cover the prevalence for their respective territories of the following diseases: Chicken pox, diphtheria (carriers not included), influenza, measles, mumps, pneumonia (all forms), scarlet fever, smallpox, tuberculosis (all forms), typhoid fever, whooping cough, cerebrospinal fever,



dengue, lethargic encephalitis, pellagra, poliomyelitis (infantile paralysis), rabies (in man) (developed cases), rabies (in animals), typhus fever.

The local officials who send in these reports are classified as "collaborating epidemiologists" of the Public Health Service and are paid \$1 a year. Their reports are mailed under Government "frank" upon cards provided for that purpose.

In addition to the reports mailed in each week from the 570 cities, the service also receives weekly telegraphic reports from health officials of the various States.

These reports from city and State officials and from the consular officers abroad constitute the basis of the information contained in PUBLIC HEALTH REPORTS, which is issued weekly by the Public Health Service and sent to nearly 10,000 public health officials, sanitariums, libraries, and institutions throughout this country and abroad.

The reports, beside tabular statements of domestic and foreign conditions indicating the state of public health, contain special articles on various phases of public health work and summaries of current works on sanitary engineering, as well as abstracts of current court decisions affecting public health work. It may be remarked here that the experience of many years indicates that the courts in nearly every instance apply the tests of common sense and reasonableness to acts of public health officials which come before the courts for review.

When there has been an outbreak of some particular disease necessitating special measures by the service, in cooperation with city and State health officials, it is the practice to include in the PUBLIC HEALTH REPORTS an account of these activities.

The editing and distribution of PUBLIC HEALTH REPORTS is one of the functions of the Division of Sanitary Reports and Statistics.

It may be asked, Of what use is all of this statistical and other information? Some may doubt the value of informing a public health official in California of an epidemic of influenza in Massachusetts. But it is axiomatic in public health work that disease can not be prevented unless the health officials know where, when, and under what circumstances communicable diseases occur.

The value of reports of this kind was strikingly demonstrated during the influenza epidemic a few years ago. The epidemic originated, so far as the United States is concerned, in Boston and spread westward across the country. It was found that public health officials in touch with the situation could predict almost to the day when cases of this disease would be reported in the Middle Western and Western States along the line of march of the "flu" bacillus. And

to be forewarned of epidemics of this character is more than half the battle of combating them.

The Division of Sanitary Reports and Statistics was the first organization to take up the idea of radio broadcasting of talks on health topics on a large scale. These talks are prepared by medical officers of the service and are broadcast from the naval station at Arlington. Multigraphed copies are sent to other broadcasting stations throughout the country, and frequently they are "put on the air" by these stations.

Another function of the division is handling the vast number of requests for literature and information on health topics which pour into the Public Health Service. The service now has nearly 2,000 publications which may be sent in reply to such requests. When a request comes in for information not given in any of these publications, an effort is made to refer the inquirer to sources from which he can obtain what he desires. Frequently inquiries on subjects falling within the scope of other agencies of the Government are referred to those offices for reply. Likewise it happens quite often that other departments and bureaus receive requests for information which can be supplied by the Public Health Service. A regular system of interchange of such requests has been worked out. In the course of the last fiscal year ending June 30, 1926, a total of approximately 380,000 copies of publications was sent and individual replies made in response to requests for information.

#### **Division of Personnel and Accounts**

Every organization which operates over a wide geographic area needs a central control office, a nerve center, so to speak, which directs the movements of the distant members. So the United States Public Health Service, which has the earth and the air above and the waters, if any, underneath the earth, for its sphere of activity, has a dispatcher's office in the guise of its Division of Personnel and Accounts. It is through this division that each of the more than 8,000 men and women who comprise the personnel of the service came into the organization; and it is through this office that these same men and women are moved about in the great game which the Public Health Service plays with disease as its opponent and the world as its chess board.

Being a mobile organization and required to meet public health emergencies, the Public Health Service is organized and conducted under strict disciplinary rules. This necessitates adequate central control and means to attend to the mechanics of movements and other matters affecting personnel. In fact, there must be some specific office charged with the keeping of records of appointments, promotions, discontinuances, leaves of absence, changes of station,

and maintenance of discipline in accordance with the laws and regulations on the subject. It is the Division of Personnel and Accounts which does all these things for the Public Health Service. In addition the division looks after the preparation of estimates of appropriations to carry on activities, recommends apportionments of appropriations in conformity with law, makes allotments to conduct the several activities, and maintains records of all finances and expenditures, including an elaborate system of cost accounting for the manifold operations of the Public Health Service.

The addition of new laws relating to accounting and to reclassification and retirement of employees renders these records essential to the proper administration of public health activities. Moreover, the Division of Personnel and Accounts is the property office of the Public Health Service. Every article which the service uses, from a laboratory microscope to a hospital ambulance, must be properly accounted for from the time it is purchased until it is worn out and condemned. It is through this division that all records of property and supplies are maintained and surplus supplies at one station distributed to other stations as may be needed.

If any function of the division is more important than the others it is the recruiting and giving commissioned personnel opportunity for experience in the larger duties they will be called upon later to perform. It was this training and experience that enabled officers of the Public Health Service to make investigations of far-reaching importance. By this means, light was thrown on the transmission of yellow fever; the cause of hookworm disease in America was discovered, and tularæmia, a disease peculiar to America, was identified and its method of transmission established. Moreover, through experience, officers are able to engage in highly technical investigations affecting the public health. A candidate for appointment in the regular corps is required to pass a thorough examination before a board of medical officers. These examinations are held at intervals in various large cities of the United States for those candidates who, after application, have been invited by the Surgeon General to participate. The examinations consist of oral, written, and laboratory tests necessary to determine the candidate's mental and physical aptitude, as well as professional attainments. The service makes no allowance for the expenses of candidates appearing for examination.

Applicants must be between the ages of 23 and 32, citizens of the United States, graduates of a reputable medical college, and must have served an internship in an approved hospital for one year, or have practiced medicine for two years. An average of 80 per cent in all branches is required for admission to the service. Appointments are made by the President on recommendation of the Surgeon

General and subject to confirmation by the Senate. When this confirmation has been given, the candidates become assistant surgeons and are assigned to duty.

At this point in the career of the young Public Health Service officer it becomes the duty of the Division of Personnel and Accounts to see to it that he is given such assignments as will provide him with a well-balanced experience, necessary to the solution of larger problems while he remains in the service. So far as practicable, during the first four years he is in the service, the young officer is detailed for duty at a marine hospital, a quarantine station, an immigration station, Hygienic Laboratory, and in public health work in the field, in the order named.

The length of time the officer spends on each detail depends upon his previous training and the exigencies of the service. Where possible and within limits, consideration is given to the preference of the individual officer.

After four years' commissioned service, an assistant surgeon is eligible for promotion, after examination, to the grade of passed assistant surgeon. Passed assistant surgeons after 12 years' commissioned service may be promoted to the grade of surgeon. Promotions to the grades of senior surgeon and Assistant Surgeon General are made as vacancies occur by promotion of the ranking surgeon or senior surgeon, respectively. Before such promotions are made, the officer is required to pass a physical examination, and his record is reviewed by a board of officers.

The pay of commissioned officers of the Public Health Service ranges from \$2,699 for an assistant surgeon to \$7,179 for an Assistant Surgeon General, both without dependents. For officers having dependents, the salary range is \$3,158 to \$7,200. A Surgeon General receives \$7,500 if he has dependents, and \$7,179 if he has none. These salaries are established by the same law which fixes those of officers of the Army and the Navy. The grades are comparable to those of medical officers of the Army and Navy. Advances in pay in higher grades are dependent, however, upon length of service rather than promotion in rank. By reason of legislative restrictions of long standing, promotions in the higher grades are almost negligible.

All other personnel of the Public Health Service is selected from lists of eligibles established by the Civil Service Commission under civil service law and regulations. The diverse system of appointment sometimes presents difficulties when men of special scientific attainments are required for specific work involving change of station. It would be highly desirable from the standpoint of the Public Health Service if all medical and scientific personnel subject to emergency and liable to changes of station were selected in the same manner as the commissioned officers. The adoption of this policy would pro-

mote scientific investigations and be in the interest of efficient administration.

For administrative purposes the Public Health Service divides the country into six sanitary districts with a medical director assigned to each district. Through these directors the Surgeon General keeps in touch with State and local health authorities, universities, industries, and other interests favorably affected by public health work. These directors also make inspections of service stations and activities with a view to their coordination, investigate administrative difficulties, and devise means for the prevention and suppression of epidemics liable to occur within their districts. The ordinary routine of stations is handled by the officers in charge. The district directors accordingly act largely in an advisory capacity without the necessity of considerable personnel.

The present is an age of specialization, particularly in the field of medicine, and thus it happens that within the service there are groups of officers having special qualifications for solving particular problems. Some of these officers may be devoting their time regularly to investigations of communicable diseases, nutritional diseases, the health hazards of industry, or other public health problems. But when an emergency arises in any district, selection and detail of personnel must be made to meet it. In such cases the Division of Personnel and Accounts is the channel through which the Surgeon General transmits his orders. All epidemic situations are met in this manner. These movements of personnel are limited as much as possible, however, by the policy of having officers with all-round training distributed here and there so as to meet emergency situations as they arise.

During the fiscal year ended June 30, 1926, there were many extra routine demands upon the Public Health Service for the services of specialized personnel. There was the extension of the immigration inspection work to European ports, the fight against the spread of bubonic plague in California, the tetraethyl lead investigation, the investigation of the shellfish industry, investigations and administration of methods to safeguard milk supplies, and advisory work with the Office of Indian Affairs. All of these demands required the selection and disposition of qualified personnel.

In addition, there are constant demands from private and semi-public organizations for assistance and instruction in public health matters. Officers are detailed, therefore, to attend meetings of associations for the promotion of public health. It is the policy of the service to supply speakers wherever possible and where the importance of the occasion merits, for the dissemination of public health information and to cooperate with and aid State and local authorities in the solution of public health problems which arise in connection with

administration. It is necessary for some agency to evaluate for the Surgeon General the relative importance of the demands received. This decision devolves largely upon the Division of Personnel and Accounts because of its knowledge of the availability of officers from day to day.

#### Division of Domestic Quarantine

"Quarantine," by which is meant any forced stoppage of travel, communication, or intercourse on account of contagious or infectious diseases on land or by sea, was probably the earliest known method used to prevent the introduction of disease. Isolation and quarantine, in the sense of holding vessels and people until danger of disease was supposed to have passed, were naturally in use for ages before the actual modes or methods for transmission of communicable disease were known, and during the colonial period each of the colonies had more or less adequate provision for its protection from the introduction of exotic disease from abroad.

When the United States came into being, with its unique system of balance between Federal and State powers, health matters, which are universally regarded as police powers, were, by inference, left to the control of the several States. The control of foreign and interstate communication, however, was, of course, given to the Federal jurisdiction. Among the early laws passed in the first decade after the Constitution were those enjoining Federal officials (Army, revenue cutter, customs, etc.) to assist the several States in the enforcement of their quarantine laws. There were few or no laws other than local providing for the possibility of the interstate spread of disease. With the introduction of the railroad and steamboat, with consequent increase in travel and communication, the necessity for coordinated effort was seen, and by consent of the States, and under the commerce clause of the Constitution, laws were passed providing for Federal control both of interstate and maritime quarantine functions.

The Domestic Quarantine Division of the Public Health Service came into being in 1910. Its functions may be summarized as follows:

1. Enforcement of the interstate quarantine regulations of the United States.
2. Development of State departments of health, especially divisions of communicable diseases and sanitary engineering.
3. Control over water supplies used for drinking and culinary purposes on railroads, vessels, and other interstate carriers.
4. Sanitation of the national parks in cooperation with the National Park Service.
5. Measures for the control and prevention of trachoma.
6. Studies of and demonstrations in rural sanitation.

7. The annual conference of State and Territorial health authorities with the Public Health Service.

8. Other contacts with State and Territorial health officials relating to health administration.

Some idea of the extent of the duties imposed upon the division by the requirement that it enforce the interstate quarantine regulations may be gleaned from the first paragraph of these regulations, which reads:

"For the purpose of interstate quarantine the following diseases shall be regarded as contagious and infectious diseases within the meaning of section 3 of the act approved February 15, 1893: Plague, cholera, smallpox, typhus fever, yellow fever, typhoid fever, paratyphoid, dysentery, pulmonary tuberculosis, leprosy, scarlet fever, diphtheria, measles, whooping cough, epidemic cerebrospinal meningitis, anterior poliomyelitis, Rocky Mountain spotted or tick fever, gonorrhea, chancroid, anthrax, influenza, pneumonia, epidemic encephalitis, septic sore throat, rubella, and chicken pox."

And paragraph 2 of the same regulations provides that:

"Any person or thing, either living or dead, which has been unduly exposed to or in intimate contact with or is infected with any of the diseases enumerated in section 1, except as otherwise provided in these regulations, shall be regarded as contagious or infectious until the contrary has been proved, and if found in any car, vessel, vehicle, or conveyance undergoing interstate transportation, shall be subjected to such inspection, disinfection, or other measures as may be necessary to prevent the spread of the infection from them."

It will be appreciated that these regulations impose an undertaking of considerable magnitude upon the Division of Domestic Quarantine. The regulations cover almost every conceivable situation which might arise in connection with the travel of persons suffering from communicable diseases and the travel of things subject to infection. Provision is also made for the sanitation of interstate common carriers and for the supervision of drinking water and food supplies used on such carriers.

One of the activities of the Public Health Service in connection with interstate travel is the sanitary control over all water supplies used for drinking or culinary purposes on interstate carriers. It is obvious that this is a tremendous task. The water included in this description comes from more than 2,800 sources. Control over this supply from a sanitary standpoint is practicable only because of the cooperation given the Public Health Service by the State and city health authorities. There are many indirect results from this function of the Public Health Service. It has been found that when the water supply of a certain city has been adjudged unfit for use on trains in interstate traffic, these cities are usually quick to

improve their water supply. The local citizenry is prone to feel, and quite properly, that what is not good enough for the traveler passing through their city is not good enough for the home folks.

Sanitation in the national park reservations is a most important phase of the work of the Domestic Quarantine Division. Tourists from every State in the Union visit these parks each year, and if proper precautions were not taken the parks might easily become national focal points of disease distribution. Disposal of sewage and protection of water supplies are the principal subjects with which the public-health officials have to deal in the national parks.

The suppression of epidemics naturally falls within the jurisdiction of the Domestic Quarantine Division. An outbreak of bubonic plague at Los Angeles, Calif., in recent years was suppressed by an active campaign against rodents combined with extensive rat proofing of buildings and the elimination of rat harborages. Similar steps against the same disease have been effective at San Francisco, Oakland, Calif.; New Orleans; Pensacola; Galveston and Beaumont, Tex. The ground squirrels of California have been found to be carriers of the disease, and squirrel-free zones have been maintained around certain ports to prevent the infected squirrels from coming in contact with city rats and causing an extensive plague infection—first of the rats, and later of human beings.

It was the Division of Domestic Quarantine which directed the investigation of the shellfish industry during the past year following upon an outbreak of typhoid fever attributable to infected oysters. The investigation resulted in the adoption of methods to prevent infection of the oysters through cooperation with the shellfish industry and State health authorities.

Rural sanitation is a subject in the development of which the Public Health Service takes an active interest through studies and demonstration work. The counties have been encouraged to work in this field in the past through allotments from Federal funds. The local communities now spend about \$9 for this work for every dollar contributed by the Federal Government. Demonstration projects in which the division is now participating include: General sanitation, child and maternity hygiene, tuberculosis control, acute communicable disease control, and school hygiene.

For the fiscal year ending June 30, 1926, the appropriations for the work of the Domestic Quarantine Division totaled approximately \$450,000.

#### Division of Venereal Diseases

Back in 1911 the Public Health Service wanted to do something which, it hoped, would bring about a reduction in the prevalence of venereal diseases among the patients in the marine hospitals. At



that time—and for that matter to-day—about 22 per cent of the work of the marine hospitals had and has to do with venereal infections of one kind or another.

So, in 1911, the Public Health Service prepared a booklet containing the facts then known about venereal diseases, stated in plain and simple language. The intention was to distribute the booklet among the seamen and others who were cared for in the marine hospitals.

The booklet was sent to the Treasury Department for approval and was promptly sent back with a message that it contained matter which was indecent and improper for the Government to print. And that attitude was sustained by higher officials and the booklet was not printed.

However, as far back as 1875 the problem of venereal diseases, their prevention and control, was considered by the United States Public Health Service. The annual report for 1875 contained a number of recommendations for the prevention of the introduction of syphilis and gonorrhea into the United States, and suggestions for the treatment of those already infected, which are as germane to the problem to-day as they were at that time. "If these regulations were adopted," the report states, "a better sanitary as well as moral state of society would prevail generally."

Nearly 40 years elapsed before the medical and quarantine measures recommended by the service for the control of these diseases had been adopted generally in the United States.

Ehrlich discovered salvarsan in 1910, which discovery, more than any other one thing, resulted in tangible and effective measures for the control of syphilis. The Public Health Service secured the first shipment of this drug to the United States and cooperated in its first administration in this country.

The World War brought the country to a state of mind in which it was willing to look reality in the face, and the Government assumed its share of responsibility of informing the public frankly concerning the nature and prevention of venereal diseases and in applying medical and other measures of control.

Early in the war the Public Health Service participated with other agencies in a campaign for the protection of the armed forces undergoing training at the various cantonments. On January 2, 1918, active steps were taken for the official organization of a plan for the nation-wide control of these diseases. Overtures were made to each of the State boards of health for the purpose of enlisting the forces of these organizations. The responses were very encouraging, and by May 24, 1918, 32 States had undertaken systematic efforts to control the spread of venereal infections.

A more concerted effort for the control of these diseases was made possible by an executive order of July 1, 1918, which placed all

Federal health activities other than those of the Army and Navy under the supervision and control of the Public Health Service. On July 9 Congress passed the Chamberlain-Kahn Act creating in the Public Health Service a Division of Venereal Diseases, and appropriating more than \$4,000,000 for use during the two following fiscal years to carry out the duties imposed by this act. Under the provisions of this act the functions of the division are as follows:

(1) To study and investigate the cause, treatment, and prevention of venereal diseases.

(2) To cooperate with State boards or departments of health for the prevention and control of such diseases within the States, and

(3) To control and prevent the spread of these diseases in interstate traffic.

A tremendous impetus was given to venereal-disease control work as a result of the interest and leadership of the Public Health Service in this movement. During the first 12 months after the passage of this act every State in the Union except four was prosecuting vigorous measures for the control of venereal diseases in accordance with the cooperative plan outlined by the Public Health Service, and at the present time all States are conducting venereal-disease control programs.

It is interesting to compare the attitude of the Government toward venereal-disease control work in 1919 with that of 1911. As a part of the educational work carried on by the Division of Venereal Diseases the country in 1919 was being furnished with millions of educational pamphlets and informational bulletins far more frank in their treatment of the serious subject of venereal diseases than the modest booklet suggested in 1911, which had been deemed indecent and improper for the Government to publish.

In this cooperative endeavor medical, educational, and law-enforcement activities were featured. An important feature in the control of venereal diseases has been the provision of facilities for the treatment of indigent persons suffering from these diseases as the best means of preventing their future spread. More than 900 cooperative clinics have been established by States, counties, cities, and institutions where treatment is given free or at a nominal charge. A total of 915,638 patients has been admitted and 13,835,321 treatments have been given at these clinics.

These clinics have, since 1918, made 1,959,446 Wassermann tests and 1,409,089 microscopic examinations for gonococcus infection. Nearly every State board of health provides laboratory facilities to aid the physicians in diagnosing these diseases.

Many cases affected with a venereal disease never seek treatment by a physician, and all physicians do not report cases under their

care, but 2,800,000 cases of venereal diseases have been reported to State health departments during the past eight years.

One of the most valuable phases of modern public-health effort has been the educational campaign in its attack on venereal diseases. The history of measures for the control of no other disease reveals that public enlightenment has proceeded so rapidly, with the result that a wholesome attitude toward matters of sex is being developed.

The educational work may be divided into two groups—general public educational work and a specific program of sex education to be carried on in schools and colleges. As a part of the educational program the service has prepared more than 100 different publications, and over 30,000,000 copies of such publications have been distributed. Seven card exhibits for use in public gatherings have been prepared and widely used. Stereopticon slides and posters have been prepared and displayed. In cooperation with State boards of health arrangements have been made to send lecturers to speak before many audiences, giving them essential information on the nature of venereal diseases and methods of their prevention and control.

To encourage the program of sex education in the schools the service has prepared bulletins giving outlines of courses, exhibits stressing physical fitness, and a 12-reel motion-picture film depicting the story of the reproduction of life, the prevention of disease, and rules of personal hygiene.

Sex education includes not only instruction concerning the reproductive function but all teaching and training in the home, church, and school which tends to form normal and wholesome attitudes and ideals in regard to sex and to shape character and conduct in accordance with such attitudes and ideals.

Several studies have been made of the status of sex education in schools. The last one, in 1925, showed that remarkable progress has been made in the inclusion of approved methods of sex education.

A successful effort has been made to secure essentially uniform laws throughout the United States concerning the control of venereal diseases. All States now require these diseases to be reported and control measures are applied in a manner similar to other contagions. Under certain conditions cases which continue to spread the disease are quarantined.

Most States have laws forbidding the sale of "quack" remedies for venereal treatment. Uniform laws and ordinances have been adopted governing the control of prostitution and making the transmission of venereal diseases a crime. These laws, however, should be enforced in a more satisfactory manner.

The study of the cause, treatment methods, and the prevention of venereal diseases has occupied the attention of the Division of

**Venereal Diseases.** Various investigations have been made which have been of great value in promoting more effective measures of prevention and control.

Investigations have been made of venereal-disease prevalence among various groups of persons as regards sources of infection, age, and other factors. It is interesting to note that a considerable proportion of these diseases, particularly syphilis, are acquired innocently.

The division also serves as a clearing house of knowledge regarding methods of venereal-disease control in foreign countries. Information gathered by officers of the Public Health Service is made available to the health officials of the States and to others interested.

Some of these reports from abroad are quite significant. In Denmark, for example, where for 116 years the Government has required all persons infected with a venereal disease to submit to treatment supplied free by the Government, it has been found that syphilis has decreased by approximately 33 per cent in the past quarter century. Gonorrhea also showed a decline during that period, though the fall was not so great.

In order to provide facilities for the study of practical problems connected with clinic management, methods of treatment and prevention, the Public Health Service in 1920 established in cooperation with the Interior Department a clinic at the Hot Springs National Park. At this clinic various new drugs have been given practical tests to determine their relative efficacy in producing a cure, and much practical knowledge concerning clinic management has been gained, and this information has been given to the State venereal disease-control officers.

Owing to the reduction in the appropriations for the division, which for the present year amount to \$75,000, the venereal-control activities have been considerably curtailed. Since the fiscal year 1925 no funds have been available for allotment to States for cooperative work. As a result, considerable decrease in the activity of many of the States is noticed, although a fair proportion of them are carrying on an active venereal disease-control program.

The following figures indicate the extent and importance of the work of the Division of Venereal Diseases: For the fiscal year 1925 the service received reports of 200,584 cases of syphilis, 165,523 cases of gonorrhea, and 6,706 cases of chancroid. For the fiscal year 1926 reports from the same sources were: Syphilis, 215,547; gonorrhea, 166,656; and chancroid, 7,129. In 1925, 495 clinics reported 62,543 admissions for syphilis, 39,636 for gonorrhea, and 2,843 for chancroid infections. The encouraging factor in the situation is the increased interest which has been aroused among State and local authorities and the public in general. The nature of the diseases makes it certain that the battle will be a long one.

## **\ PUBLIC HEALTH ENGINEERING ABSTRACTS**

**The Destruction of Rat Fleas by Heat on Board Ship.**—R. K. Shaw, J. Roy. Nav. M. Serv., 1925, v. 11, 255–60 (3 refs.). (Abstracted by M. E. Delafield.) From *Bulletin of Hygiene*, vol. 1, No. 2, February, 1926, p. 159.

“This investigation was conducted on board H. M. S. *Endeavour* off the West Coast of Africa with a view to discovering a convenient and certain emergency method of destroying rat fleas in clothing and bedding. Seven experiments on about 60 rat fleas were performed. The fleas were placed between blankets or on their surface and exposed to a hot atmosphere, the site in most cases being the engine room, port side, over the water-feed tank. The results indicate that all rat fleas are destroyed in a dry blanket, if folded not more than twice, by exposure to 110° F. for three hours, such a temperature being constantly present in this engine room while at sea. The fleas were found, however, to withstand a high temperature for a prolonged period if kept moist.

“This method of killing fleas has proved to be of practical value in such a ship as the *Endeavour*.”

**Antimalarial Operations on the Eastern Bengal Railway—Khulna Branch.** T. H. Bishop, chief medical officer, Eastern Bengal Railway, Calcutta. *Indian Medical Gazette*, vol. 61, No. 7, July, 1926, pp. 337–343. (Abstract by J. A. Le Prince.)

The author thinks three factors should be considered in antimalaria operations by railways: (1) Results achieved may be in part reduced in value by adjacent conditions close to railroad premises; (2) by the large infective focus or group that harbor malaria parasites and feed the mosquito carrier; (3) and by the group of persons who by careless habits allow themselves to be infected.

He considers the antimalaria campaign instituted by the St. Louis Southwestern Railway of the United States as the most successful disease-prevention campaign (after the Panama Zone control) where the mosquito factor was considered, and that a somewhat similar campaign might be possible and might yield good results along the Eastern Bengal Railway.

The campaign conducted included 29 stations, was in charge of four traveling medical officers who visited each family in railway quarters once weekly, made necessary examinations, and so far as possible saw that the course of treatment laid down was carried out. In the families of employees Indian nurses were provided.

Each medical party consisted of a medical graduate, an Indian nurse, and an instructional sanitary “Jamador” to point out things that could be done on a small scale, such as control of small nearby *Anopheles* sources, cleaning undergrowth, removing garbage, etc.

Of the railway population of the Khulna branch, 2,000 persons, 38 per cent, were treated for malaria by the visiting medical officers. In a single season, of 514 vases of primary malaria 306 were apparently cured and 208 were relapses or reinfections.

The writer thinks that night duty and lack of regular diet are important factors in increasing susceptibility to malaria. The percentage of malaria cases to population at 29 stations on the Khulna branch varies from 18 to 68 per cent, but where station forces are small one case gives a high percentage rate. The stations are frequently located close to swamps, and Anopheles-producing borrow-pits close to them are common.

It is proposed to continue the "propaganda-with-treatment" campaign.

The writer advises railway administrators to consider the effect on health of man-made topographical changes near stations, to consider the future health status of employees in connection with location of sites for stations, quarters, offices, etc. He advises against the dumping camps of newly imported labor in midst of a railway colony and against drainage operations being so carried out as to increase the Anopheles output in place of decreasing it.

*(Abstractor's comment.*—A survey made at Panama during the canal-construction period showed that the forces working on night shifts had a lower malaria rate than that of the dayworking forces. The writer states that in the work of the St. Louis Southwestern Railway in the United States a large special staff and adequate funds were available and the campaign was designed as a cooperative measure between the railway and the adjacent municipalities. During the first year of the American railway work only \$3,000 was available. These funds were so used as to demonstrate to a number of municipalities that it would pay them a handsome financial return to cooperate with the efforts of the railroad. The railroad was losing potential profits because of malaria prevalence. It therefore invested each dollar so as to get that dollar back several times each year forever after the work had advanced, and it accomplished its objective. While it is not known how many thousands of dollars per year the Eastern Bengal Railway is losing because of malaria prevalence, yet the abstractor (who initiated the first work done by the St. Louis Southwestern Railway and selected the worst malaria section to start the demonstration in, with a view to proving to the railroad executives that malaria control means increased railroad revenue) feels sure that properly directed malaria control, including preliminary emergency control measures not mentioned by the writer, may be as important to the Eastern Bengal Railway and many other railways in the British colonies in the Tropics as is the upkeep of track and rolling stock. It is to be hoped

that the directors and executives of more British and more American railroads will before long investigate their present unnecessary annual financial loss caused by malaria, and thus obtain that worth-while increased income which is within their reach but yet ignored by them. The total amount spent to date by the St. Louis Southwestern Railway for malaria control as compared with the profits gained by increased efficiency of its employees, by increased freight handled, and increased development of its territory is a relatively small amount. Its investments in malaria control are decreasing, while its income from the territory sanitated is increasing.)

**Cresol Saponified as a Larvicide.** C. Strickland, professor medical entomology, School Tropical Medicine and Hygiene, Calcutta, and D. N. Roy, assistant professor medical entomology, in the same institution. (Including a note on the cresols by Maj. A. D. Stewart.) *Journal Royal Army Medical Corps*, vol. 46, No. 3, September, 1926, pp. 188-195. (Abstract by M. A. Barber.)

Varying dilutions of saponified cresol in water were applied to *Anopheles rossi* and to *Stegomyia* and other culicines. In a dilution of 1 in 10 by 5 all larvæ were killed in 42 hours, but in a dilution of 1 in 10 only about 15 per cent died in 24 hours. Toxicity is less marked in dilutions made in polluted river waters. *Anophelines* are more resistant to this larvicide than *stegomyia* and culicines, and pupæ more resistant than larvæ. Fish and shrimps were relatively much more affected than larvæ. Dilutions of saponified cresol rapidly lose their efficacy. In field trials the authors found a dilution of 1 in 50,000 the greatest of any utility, and this would represent a relatively prohibitive cost. Major Stewart's note summarized: The germicidal coefficient of a coal-tar disinfectant is no sure guide to its larvicidal value; and the proportionate amount and nature of its constituents have to be considered in gauging its larvicidal power; the hydrocarbon oils probably play a much larger part than might be thought, in comparison with the phenoloids; the comparative larvicidal power of the "phenoloid" series has apparently not been determined as has the germicidal power; the composition of the diluting water is of importance.

**Larvicidal Action of Cresol.** Maj. C. H. Harold, Royal Army Medical Corps. *Journal Royal Army Medical Corps*, vol. 46, No. 3, September, 1926, pp. 180-187. (Abstract by M. A. Barber.)

The larvicidal as well as the germicidal efficiency of the cresol tested is enhanced by increase of temperature; by the presence of acid, although in excess of the amounts of acid obtaining in nature; and by the presence of common salt. However, a cresol may be highly germicidal but a relatively poor larvicide. A cresol may produce torpor in a mosquito larva which may appear to be dead, but will subsequently revive, especially if left on the surface of

water or otherwise well aerated. Exposure to nonlethal solutions of cresol may increase the resistance of larvæ to solutions ordinarily lethal. The presence of organic silt lining a pool may retard the action of cresol on larvæ.

The author tested the effect of cresol on the culicine *A. punctor* and on *Anopheles bifurcatus*. Pupæ were more resistant than larvæ to the cresols tested and the anophelines more resistant than the culicines. A cresol tested in the presence of organic silt was effective against the culicine in a 1 in 20,000 dilution and against the anopheline in a 1 in 10,000 dilution.

**Design of Small Sewage Disposal Plants.** F. Johnstone Taylor, consulting engineer, Warrington, England. *Canadian Engineer*, vol. 51, No. 11, September 14, 1926, pp. 285-287. (Abstract by Rudolph E. Thompson.)

Description and discussion of sewage disposal systems for individual houses or institutions. Suitable designs of septic tanks and of contact beds and percolating filters for treatment of septic-tank effluents are described and illustrated. The importance of simplicity in design is emphasized.

**Developments in Methods of Sewage Disposal.** C. G. Gillespie, director, bureau of sanitary engineering, California State Board of Health. *Pacific Municipalities*, vol. 40, No. 8, August, 1926, pp. 303-317. (Abstract by C. G. Gillespie.)

The article is a rather nontechnical review of the evolution of sewage treatment from its beginning in England about 70 years ago. A point stressed is the great need of deeper understanding of the scientific use of the lower flora and fauna in sewage treatment and the achievements of the present due to the bit of knowledge now possessed. Considerable space is devoted to the rapid development of the activated sludge method and its success and suitability to California conditions because of potential freedom from odors and the need of irrigation water which it can supply, and production of an excellent fertilizer. There are now three good-sized activated sludge plants in California: Lodi, population 8,000, uses ridge and furrow aeration with sludge dried on soil beds; Pasadena, population 100,000, ridge and furrow aeration, now buries sludge filtered on an Oliver filter, but is about to dry it by direct heat driers; Pomona, population 20,000, uses the Manchester type of aeration with anaerobic digestion of sludge in the Imhoff tank ahead of the aerators.

**Report of the Bureau of Uncinariasis of the Department of Health, 1924-25.** *Porto Rico Health Review*, vol. 1, No. 10, April, 1926, pp. 29-38. (Abstract by D. L. Augustine.)

The bureau of uncinariasis was created in 1923 to take charge of the increasingly important work of prevention and treatment of



uncinariasis. The work of the bureau consists largely in sanitation to prevent infection and in giving treatments for the cure of the disease. During the year 22,408 latrines were approved, and it is now estimated that over one-fourth of the total rural population is provided with sanitary accommodations. During the year 36,239 rural inhabitants were examined, of which over 90 per cent were found infected with hookworms; 139,585 treatments were given to 38,269 persons, most of whom were freed of their parasites.

The work of the bureau is divided into three principal phases: (1) Sanitation, (2) conservation, and (3) treatment.

**Observations on the Development of Hookworm Larvæ.** P. R. Maplestone. *Annals of Tropical Medicine and Parasitology*, vol. 20, No. 2, June, 1924, pp. 167-173. (Abstract by D. L. Augustine.)

A series of experiments shows that urine has a definite effect in destroying both hookworm eggs and freshly hatched larvæ. The eggs are killed in urine after 9 to 14 days. It was found that 4 days' complete immersion in water kills about 25 per cent of a given number of hookworm eggs and that a steady diminution occurs in the number of viable eggs recoverable from water as immersion is continued. After a period of five weeks' immersion all the eggs appear to be dead. From these observations it seems safe to conclude that septic tanks would have some effect in reducing hookworm infection, the actual reduction being directly dependent on the time the feces remained in the tank.

## DEATHS DURING WEEK ENDED NOVEMBER 27, 1926

*Summary of information received by telegraph from industrial insurance companies for week ended November 27, 1926, and corresponding week of 1925. (From the Weekly Health Index, December 2, 1926, issued by the Bureau of the Census, Department of Commerce)*

|                                                         | Week ended<br>November 27,<br>1926 | Corresponding<br>week, 1925 |
|---------------------------------------------------------|------------------------------------|-----------------------------|
| Policies in force.....                                  | 66, 126, 032                       | 62, 247, 321                |
| Number of death claims.....                             | 10, 451                            | 10, 192                     |
| Death claims per 1,000 policies in force, annual rate.. | 8. 2                               | 8. 5                        |

*Deaths from all causes in certain large cities of the United States during the week ended November 27, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, December 2, 1926, issued by the Bureau of the Census, Department of Commerce)*

| City                          | Week ended Nov. 27, 1926 |                         | Annual death rate per 1,000 corresponding week, 1925 | Deaths under 1 year      |                          | Infant mortality rate, week ended Nov. 27, 1926 <sup>1</sup> |
|-------------------------------|--------------------------|-------------------------|------------------------------------------------------|--------------------------|--------------------------|--------------------------------------------------------------|
|                               | Total deaths             | Death rate <sup>2</sup> |                                                      | Week ended Nov. 27, 1926 | Corresponding week, 1925 |                                                              |
| Total (66 cities).....        | 6, 726                   | 12.1                    | 12.0                                                 | 707                      | 671                      | 58                                                           |
| Akron.....                    | 29                       |                         |                                                      | 7                        | 4                        | 75                                                           |
| Albany <sup>3</sup> .....     | 31                       | 13.6                    | 11.9                                                 | 4                        | 4                        | 83                                                           |
| Atlanta.....                  | 65                       |                         |                                                      | 8                        | 12                       |                                                              |
| White.....                    | 31                       |                         |                                                      | 4                        | 10                       |                                                              |
| Colored.....                  | 34                       | ( <sup>4</sup> )        |                                                      | 4                        | 2                        |                                                              |
| Baltimore <sup>4</sup> .....  | 214                      | 13.8                    | 12.6                                                 | 32                       | 19                       | 98                                                           |
| White.....                    | 165                      |                         |                                                      | 25                       | 11                       | 94                                                           |
| Colored.....                  | 49                       | ( <sup>5</sup> )        |                                                      | 7                        | 8                        | 112                                                          |
| Birmingham.....               | 83                       | 20.5                    | 17.7                                                 | 9                        | 16                       |                                                              |
| White.....                    | 34                       |                         |                                                      | 3                        | 5                        |                                                              |
| Colored.....                  | 49                       | ( <sup>6</sup> )        |                                                      | 6                        | 11                       |                                                              |
| Boston.....                   | 228                      | 15.1                    | 13.8                                                 | 35                       | 23                       | 93                                                           |
| Bridgeport.....               | 24                       |                         |                                                      | 1                        | 3                        | 17                                                           |
| Buffalo.....                  | 151                      | 14.5                    | 11.4                                                 | 15                       | 8                        | 63                                                           |
| Cambridge.....                | 22                       | 9.4                     | 13.1                                                 | 2                        | 5                        | 36                                                           |
| Camden.....                   | 27                       | 10.7                    | 10.5                                                 | 4                        | 1                        | 67                                                           |
| Canton.....                   | 21                       | 10.0                    | 11.8                                                 | 3                        | 1                        | 66                                                           |
| Chicago <sup>4</sup> .....    | 634                      | 10.8                    | 10.6                                                 | 68                       | 59                       | 59                                                           |
| Cincinnati.....               | 148                      | 18.8                    | 12.2                                                 | 13                       | 7                        | 81                                                           |
| Cleveland.....                | 188                      | 10.2                    | 12.1                                                 | 17                       | 29                       | 44                                                           |
| Columbus.....                 | 73                       | 13.4                    | 12.8                                                 | 5                        | 3                        | 47                                                           |
| Dallas.....                   | 47                       | 12.1                    | 10.5                                                 | 6                        | 4                        |                                                              |
| White.....                    | 37                       |                         |                                                      | 6                        | 2                        |                                                              |
| Colored.....                  | 10                       | ( <sup>7</sup> )        |                                                      | 0                        | 2                        |                                                              |
| Dayton.....                   | 43                       | 12.7                    | 11.5                                                 | 2                        | 1                        | 33                                                           |
| Denver.....                   | 76                       | 13.9                    | 14.1                                                 | 5                        | 10                       |                                                              |
| Des Moines.....               | 35                       | 12.5                    | 12.2                                                 | 3                        | 2                        | 50                                                           |
| Detroit.....                  | 280                      | 11.3                    | 11.0                                                 | 55                       | 44                       | 90                                                           |
| Duluth.....                   | 22                       | 10.2                    | 13.2                                                 | 1                        | 3                        | 23                                                           |
| El Paso.....                  | 32                       | 15.3                    | 14.9                                                 | 6                        | 4                        |                                                              |
| Erie.....                     | 31                       |                         |                                                      | 9                        | 2                        | 176                                                          |
| Fall River <sup>4</sup> ..... | 28                       | 11.1                    | 10.9                                                 | 1                        | 10                       | 16                                                           |
| Flint.....                    | 22                       | 8.4                     | 10.8                                                 | 4                        | 2                        | 68                                                           |
| Fort Worth.....               | 42                       | 13.8                    | 6.1                                                  | 10                       | 0                        |                                                              |
| White.....                    | 33                       |                         |                                                      | 8                        | 0                        |                                                              |
| Colored.....                  | 9                        | ( <sup>8</sup> )        |                                                      | 2                        | 0                        |                                                              |
| Grand Rapids.....             | 27                       | 9.0                     | 10.5                                                 | 1                        | 5                        | 14                                                           |
| Houston.....                  | 43                       |                         |                                                      | 7                        | 5                        |                                                              |
| White.....                    | 32                       |                         |                                                      | 3                        | 4                        |                                                              |
| Colored.....                  | 11                       | ( <sup>9</sup> )        |                                                      | 4                        | 1                        |                                                              |
| Indianapolis.....             | 88                       | 12.5                    | 12.9                                                 | 1                        | 3                        | 8                                                            |
| White.....                    | 74                       |                         |                                                      | 1                        |                          | 9                                                            |
| Colored.....                  | 14                       | ( <sup>10</sup> )       |                                                      | 0                        |                          | 0                                                            |
| Jersey City.....              | 61                       | 10.0                    | 14.4                                                 | 9                        | 12                       | 63                                                           |
| Kansas City, Kans.....        | 36                       | 16.0                    | 13.0                                                 | 2                        | 8                        | 39                                                           |
| White.....                    | 28                       |                         |                                                      | 2                        | 3                        | 45                                                           |
| Colored.....                  | 10                       | ( <sup>11</sup> )       |                                                      | 0                        | 5                        | 0                                                            |
| Kansas City, Mo.....          | 84                       | 11.7                    | 13.9                                                 | 7                        | 5                        |                                                              |
| Los Angeles.....              | 250                      |                         |                                                      | 28                       | 21                       | 73                                                           |
| Louisville.....               | 79                       | 13.2                    | 13.1                                                 | 6                        | 10                       | 51                                                           |
| White.....                    | 60                       |                         |                                                      | 4                        | 8                        | 39                                                           |
| Colored.....                  | 19                       | ( <sup>12</sup> )       |                                                      | 2                        | 2                        | 140                                                          |
| Lowell.....                   | 21                       |                         |                                                      | 3                        | 6                        | 58                                                           |
| Lynn.....                     | 23                       | 11.5                    | 15.7                                                 | 1                        | 2                        | 26                                                           |
| Memphis.....                  | 52                       | 15.3                    | 16.1                                                 | 7                        | 6                        |                                                              |
| White.....                    | 26                       |                         |                                                      | 3                        | 2                        |                                                              |
| Colored.....                  | 26                       | ( <sup>13</sup> )       |                                                      | 4                        | 4                        |                                                              |
| Milwaukee.....                | 89                       | 9.0                     | 9.4                                                  | 6                        | 13                       | 28                                                           |
| Minneapolis.....              | 95                       | 11.4                    | 11.0                                                 | 0                        | 9                        | 0                                                            |

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births. Cities left blank are not in registration area for births.

<sup>3</sup> Data for 64 cities.

<sup>4</sup> Deaths for week ended Friday, Nov. 26, 1926.

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

*Deaths from all causes in certain large cities of the United States during the week ended November 27, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925—Continued*

| City                              | Week ended Nov. 27, 1926 |                  | Annual death rate per 1,000 corresponding week, 1925 | Deaths under 1 year       |                          | Infant mortality rate, week ended Nov. 27, 1926 |
|-----------------------------------|--------------------------|------------------|------------------------------------------------------|---------------------------|--------------------------|-------------------------------------------------|
|                                   | Total deaths             | Death rate       |                                                      | Week ended, Nov. 27, 1926 | Corresponding week, 1925 |                                                 |
| Nashville <sup>4</sup> .....      | 63                       | 24.0             | 13.8                                                 | 7                         | 1                        | .....                                           |
| White.....                        | 34                       |                  |                                                      | 2                         | 1                        | .....                                           |
| Colored.....                      | 29                       | ( <sup>5</sup> ) |                                                      | 5                         | 0                        | .....                                           |
| New Bedford.....                  | 22                       |                  |                                                      | 4                         | 0                        | 69                                              |
| New Haven.....                    | 42                       | 12.0             | 12.8                                                 | 4                         | 4                        | 55                                              |
| New Orleans.....                  | 160                      | 19.9             | 16.6                                                 | 13                        | 14                       | .....                                           |
| White.....                        | 99                       |                  |                                                      | 5                         | 11                       | .....                                           |
| Colored.....                      | 61                       | ( <sup>5</sup> ) |                                                      | 8                         | 3                        | .....                                           |
| New York.....                     | 1,250                    | 11.0             | 11.7                                                 | 129                       | 141                      | 52                                              |
| Bronx Borough.....                | 147                      | 8.5              | 9.4                                                  | 16                        | 11                       | 53                                              |
| Brooklyn Borough.....             | 439                      | 10.2             | 10.2                                                 | 55                        | 52                       | 56                                              |
| Manhattan Borough.....            | 520                      | 14.4             | 16.2                                                 | 43                        | 61                       | 48                                              |
| Queens Borough.....               | 108                      | 7.4              | 6.7                                                  | 11                        | 11                       | 50                                              |
| Richmond Borough.....             | 36                       | 13.1             | 11.7                                                 | 4                         | 6                        | 70                                              |
| Newark, N. J.....                 | 82                       | 9.3              | 9.7                                                  | 12                        | 12                       | 58                                              |
| Norfolk.....                      | 31                       | 9.3              | 10.8                                                 | 1                         | 4                        | 20                                              |
| White.....                        | 16                       |                  |                                                      | 0                         | 2                        | 0                                               |
| Colored.....                      | 15                       | ( <sup>5</sup> ) |                                                      | 1                         | 2                        | 53                                              |
| Oakland.....                      | 59                       | 11.8             | 8.2                                                  | 6                         | 3                        | 70                                              |
| Oklahoma City.....                | 26                       |                  |                                                      | 2                         | 3                        | .....                                           |
| Omaha.....                        | 57                       | 13.8             | 11.8                                                 | 6                         | 2                        | 64                                              |
| Paterson.....                     | 23                       | 8.4              | 12.1                                                 | 3                         | 5                        | 51                                              |
| Philadelphia.....                 | 443                      | 11.5             | 10.9                                                 | 50                        | 34                       | 67                                              |
| Pittsburgh.....                   | 135                      | 11.1             | 14.4                                                 | 22                        | 13                       | 73                                              |
| Portland, Oreg.....               | 69                       |                  |                                                      | 1                         | 2                        | 10                                              |
| Providence.....                   | 62                       | 11.8             | 13.0                                                 | 7                         | 8                        | 58                                              |
| Richmond.....                     | 54                       | 14.9             | 16.5                                                 | 4                         | 5                        | 50                                              |
| White.....                        | 28                       |                  |                                                      | 3                         | 3                        | 58                                              |
| Colored.....                      | 26                       | ( <sup>5</sup> ) |                                                      | 1                         | 2                        | 35                                              |
| Rochester.....                    | 66                       | 10.7             | 11.0                                                 | 3                         | 2                        | 24                                              |
| St. Louis.....                    | 233                      | 14.6             | 13.3                                                 | 26                        | 12                       | .....                                           |
| St. Paul.....                     | 59                       | 12.4             | 11.0                                                 | 2                         | 3                        | 18                                              |
| Salt Lake City <sup>4</sup> ..... | 29                       | 11.4             | 12.7                                                 | 5                         | 0                        | 76                                              |
| San Antonio.....                  | 64                       | 16.3             | 16.3                                                 | 8                         | 9                        | .....                                           |
| San Diego.....                    | 35                       | 16.6             | 17.2                                                 | 1                         | 3                        | 21                                              |
| San Francisco.....                | 144                      | 13.2             | 12.7                                                 | 8                         | 7                        | 48                                              |
| Schenectady.....                  | 25                       | 14.0             | 10.7                                                 | 3                         | 2                        | 86                                              |
| Seattle.....                      | 71                       |                  |                                                      | 6                         | 3                        | 58                                              |
| Somerville.....                   | 15                       | 7.8              | 10.5                                                 | 2                         | 1                        | 57                                              |
| Spokane.....                      | 28                       | 13.4             | 11.0                                                 | 4                         | 3                        | 93                                              |
| Springfield, Mass.....            | 38                       | 13.7             | 15.0                                                 | 4                         | 6                        | 62                                              |
| Syracuse.....                     | 40                       | 11.3             | 12.3                                                 | 3                         | 3                        | 38                                              |
| Tacoma.....                       | 25                       | 12.3             | 14.0                                                 | 0                         | 2                        | 0                                               |
| Toledo.....                       | 66                       | 11.7             | 8.2                                                  | 4                         | 4                        | 39                                              |
| Trenton.....                      | 34                       | 13.2             | 12.6                                                 | 3                         | 2                        | 51                                              |
| Utica.....                        | 31                       | 15.7             | 18.0                                                 | 3                         | 3                        | 68                                              |
| Washington, D. C.....             | 126                      | 12.4             | 12.3                                                 | 9                         | 14                       | 52                                              |
| White.....                        | 80                       |                  |                                                      | 4                         | 6                        | 33                                              |
| Colored.....                      | 46                       | ( <sup>5</sup> ) |                                                      | 5                         | 8                        | 91                                              |
| Waterbury.....                    | 18                       |                  |                                                      | 2                         | 1                        | 47                                              |
| Wilmington, Del.....              | 27                       | 11.4             | 12.8                                                 | 2                         | 3                        | 44                                              |
| Worcester.....                    | 45                       | 12.2             | 13.9                                                 | 6                         | 6                        | 72                                              |
| Yonkers.....                      | 24                       | 10.8             | 7.3                                                  | 2                         | 2                        | 45                                              |
| Youngstown.....                   | 30                       | 12.5             | 10.4                                                 | 5                         | 10                       | 63                                              |

<sup>4</sup> Deaths for week ended Friday, Nov. 26, 1926.

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

## PREVALENCE OF DISEASE

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

**UNITED STATES**

## CURRENT WEEKLY STATE REPORTS

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

## Reports for Week Ended December 4, 1926

| ALABAMA                       | Cases | ARKANSAS—continued          | Cases |
|-------------------------------|-------|-----------------------------|-------|
| Chicken pox.....              | 20    | Mumps.....                  | 3     |
| Dengue.....                   | 2     | Pellagra.....               | 11    |
| Diphtheria.....               | 88    | Scarlet fever.....          | 12    |
| Influenza.....                | 33    | Smallpox.....               | 3     |
| Malaria.....                  | 18    | Tuberculosis.....           | 16    |
| Measles.....                  | 6     | Typhoid fever.....          | 21    |
| Mumps.....                    | 13    | Whooping cough.....         | 19    |
| Ophthalmia neonatorum.....    | 2     |                             |       |
| Pellagra.....                 | 4     |                             |       |
| Pneumonia.....                | 48    | CALIFORNIA                  |       |
| Poliomyelitis.....            | 2     | Cerebrospinal meningitis:   |       |
| Scarlet fever.....            | 24    | Oakland.....                | 1     |
| Smallpox.....                 | 11    | Stockton.....               | 1     |
| Trachoma.....                 | 5     | Chicken pox.....            | 381   |
| Tuberculosis.....             | 32    | Diphtheria.....             | 187   |
| Typhoid fever.....            | 19    | Influenza.....              | 22    |
| Typhus fever.....             | 1     | Lethargic encephalitis:     |       |
| Whooping cough.....           | 12    | Modesto.....                | 1     |
|                               |       | San Joaquin County.....     | 1     |
|                               |       | Susanville.....             | 1     |
|                               |       | Measles.....                | 809   |
|                               |       | Mumps.....                  | 181   |
|                               |       | Poliomyelitis:              |       |
|                               |       | Glendale.....               | 1     |
|                               |       | San Luis Obispo County..... | 1     |
|                               |       | Scarlet fever.....          | 217   |
|                               |       | Smallpox.....               | 21    |
|                               |       | Tuberculosis.....           | 197   |
|                               |       | Typhoid fever.....          | 10    |
|                               |       | Whooping cough.....         | 70    |
|                               |       |                             |       |
|                               |       | COLORADO                    |       |
|                               |       | Chicken pox.....            | 47    |
|                               |       | Diphtheria.....             | 24    |
|                               |       | German measles.....         | 2     |
|                               |       | Influenza.....              | 4     |
|                               |       | Measles.....                | 40    |
| ARIZONA                       |       |                             |       |
| Chicken pox.....              | 1     |                             |       |
| Diphtheria.....               | 1     |                             |       |
| Measles.....                  | 16    |                             |       |
| Scarlet fever.....            | 10    |                             |       |
| Trachoma.....                 | 11    |                             |       |
| Tuberculosis.....             | 41    |                             |       |
| Typhoid fever.....            | 1     |                             |       |
| Whooping cough.....           | 3     |                             |       |
|                               |       |                             |       |
| ARKANSAS                      |       |                             |       |
| Cerebrospinal meningitis..... | 1     |                             |       |
| Chicken pox.....              | 29    |                             |       |
| Diphtheria.....               | 8     |                             |       |
| Hookworm disease.....         | 8     |                             |       |
| Influenza.....                | 83    |                             |       |
| Malaria.....                  | 64    |                             |       |
| Measles.....                  | 3     |                             |       |

## COLORADO—continued

|                         | Cases |
|-------------------------|-------|
| Mumps.....              | 1     |
| Pneumonia.....          | 6     |
| Polomyelitis.....       | 1     |
| Scarlet fever.....      | 138   |
| Septic sore throat..... | 2     |
| Smallpox.....           | 19    |
| Tuberculosis.....       | 13    |
| Typhoid fever.....      | 3     |
| Whooping cough.....     | 6     |

## CONNECTICUT

|                               |     |
|-------------------------------|-----|
| Chicken pox.....              | 143 |
| Diphtheria.....               | 32  |
| German measles.....           | 3   |
| Influenza.....                | 13  |
| Measles.....                  | 69  |
| Mumps.....                    | 9   |
| Pneumonia (broncho).....      | 22  |
| Pneumonia (lobar).....        | 42  |
| Scarlet fever.....            | 58  |
| Septic sore throat.....       | 3   |
| Tuberculosis (all forms)..... | 35  |
| Whooping cough.....           | 33  |

## DELAWARE

|                     |    |
|---------------------|----|
| Anthrax.....        | 2  |
| Chicken pox.....    | 5  |
| Diphtheria.....     | 3  |
| Pneumonia.....      | 2  |
| Scarlet fever.....  | 18 |
| Tuberculosis.....   | 2  |
| Typhoid fever.....  | 2  |
| Whooping cough..... | 3  |

## FLORIDA

|                     |    |
|---------------------|----|
| Chicken pox.....    | 6  |
| Dengue.....         | 1  |
| Diphtheria.....     | 37 |
| Malaria.....        | 4  |
| Measles.....        | 2  |
| Mumps.....          | 3  |
| Pneumonia.....      | 8  |
| Scarlet fever.....  | 17 |
| Smallpox.....       | 28 |
| Tuberculosis.....   | 10 |
| Typhoid fever.....  | 19 |
| Whooping cough..... | 2  |

## GEORGIA

|                               |    |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1  |
| Chicken pox.....              | 25 |
| Diphtheria.....               | 62 |
| Hookworm disease.....         | 1  |
| Influenza.....                | 65 |
| Malaria.....                  | 15 |
| Measles.....                  | 12 |
| Mumps.....                    | 2  |
| Pneumonia.....                | 34 |
| Scarlet fever.....            | 17 |
| Septic sore throat.....       | 13 |
| Smallpox.....                 | 20 |
| Tetanus.....                  | 2  |
| Tuberculosis.....             | 4  |
| Typhoid fever.....            | 22 |
| Whooping cough.....           | 5  |

## IDAHO

|                     | Cases |
|---------------------|-------|
| Chicken pox.....    | 34    |
| Measles.....        | 33    |
| Pneumonia.....      | 1     |
| Scarlet fever.....  | 39    |
| Smallpox.....       | 7     |
| Trachoma.....       | 1     |
| Tuberculosis.....   | 1     |
| Whooping cough..... | 42    |

## ILLINOIS

|                           |     |
|---------------------------|-----|
| Cerebrospinal meningitis: |     |
| Cook County.....          | 1   |
| Knox County.....          | 1   |
| Chicken pox.....          | 656 |
| Diphtheria.....           | 142 |
| Influenza.....            | 17  |
| Lethargic encephalitis:   |     |
| Cook County.....          | 1   |
| Macon County.....         | 1   |
| Measles.....              | 408 |
| Mumps.....                | 90  |
| Pneumonia.....            | 232 |
| Polioyielitis:            |     |
| Crawford County.....      | 1   |
| Jersey County.....        | 1   |
| Lawrence County.....      | 1   |
| McHenry County.....       | 1   |
| Scarlet fever.....        | 293 |
| Smallpox.....             | 15  |
| Tuberculosis.....         | 291 |
| Typhoid fever.....        | 54  |
| Whooping cough.....       | 221 |

## INDIANA

|                     |     |
|---------------------|-----|
| Chicken pox.....    | 275 |
| Diphtheria.....     | 126 |
| Influenza.....      | 60  |
| Measles.....        | 49  |
| Pneumonia.....      | 13  |
| Scarlet fever.....  | 212 |
| Smallpox.....       | 151 |
| Tuberculosis.....   | 42  |
| Typhoid fever.....  | 10  |
| Whooping cough..... | 175 |

## IOWA

|                     |    |
|---------------------|----|
| Chicken pox.....    | 59 |
| Diphtheria.....     | 30 |
| Measles.....        | 19 |
| Mumps.....          | 3  |
| Pneumonia.....      | 3  |
| Polioyielitis.....  | 2  |
| Scarlet fever.....  | 30 |
| Smallpox.....       | 15 |
| Tuberculosis.....   | 5  |
| Typhoid fever.....  | 3  |
| Whooping cough..... | 1  |

## KANSAS

|                                         |     |
|-----------------------------------------|-----|
| Cerebrospinal meningitis—Ellinwood..... | 1   |
| Chicken pox.....                        | 202 |
| Diphtheria.....                         | 38  |
| German measles.....                     | 2   |
| Influenza.....                          | 5   |
| Measles.....                            | 51  |

## KANSAS—continued

|                               | Cases |
|-------------------------------|-------|
| Mumps.....                    | 4     |
| Pneumonia.....                | 45    |
| Poliomyelitis—Fort Scott..... | 1     |
| Scarlet fever.....            | 95    |
| Smallpox—                     |       |
| Topeka.....                   | 19    |
| Scattering.....               | 7     |
| Tuberculosis.....             | 24    |
| Typhoid fever.....            | 9     |
| Whooping cough.....           | 40    |

## LOUISIANA

|                               |    |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1  |
| Diphtheria.....               | 29 |
| Influenza.....                | 24 |
| Malaria.....                  | 16 |
| Measles.....                  | 29 |
| Pneumonia.....                | 32 |
| Scarlet fever.....            | 26 |
| Smallpox.....                 | 1  |
| Tuberculosis.....             | 15 |
| Typhoid fever.....            | 10 |

## MAINE

|                         |     |
|-------------------------|-----|
| Chicken pox.....        | 62  |
| Diphtheria.....         | 3   |
| Influenza.....          | 2   |
| Measles.....            | 105 |
| Mumps.....              | 1   |
| Pneumonia.....          | 11  |
| Scarlet fever.....      | 39  |
| Septic sore throat..... | 1   |
| Tuberculosis.....       | 6   |
| Typhoid fever.....      | 2   |
| Vincent's angina.....   | 1   |
| Whooping cough.....     | 45  |

MARYLAND <sup>1</sup>

|                               |     |
|-------------------------------|-----|
| Cerebrospinal meningitis..... | 1   |
| Chicken pox.....              | 178 |
| Diphtheria.....               | 58  |
| Dysentery.....                | 1   |
| German measles.....           | 4   |
| Impetigo contagiosa.....      | 2   |
| Influenza.....                | 23  |
| Lethargic encephalitis.....   | 1   |
| Measles.....                  | 34  |
| Mumps.....                    | 11  |
| Paratyphoid fever.....        | 2   |
| Pneumonia (broncho).....      | 31  |
| Pneumonia (lobar).....        | 35  |
| Scarlet fever.....            | 53  |
| Septic sore throat.....       | 4   |
| Tuberculosis.....             | 35  |
| Typhoid fever.....            | 9   |
| Typhus fever.....             | 1   |
| Vincent's angina.....         | 2   |
| Whooping cough.....           | 61  |

## MASSACHUSETTS

|                                   |     |
|-----------------------------------|-----|
| Cerebrospinal meningitis.....     | 4   |
| Chicken pox.....                  | 464 |
| Conjunctivitis (suppurative)..... | 4   |
| Diphtheria.....                   | 115 |

<sup>1</sup> Week ended Friday.

## MASSACHUSETTS—continued

|                                 | Cases |
|---------------------------------|-------|
| German measles.....             | 11    |
| Influenza.....                  | 12    |
| Lethargic encephalitis.....     | 2     |
| Measles.....                    | 49    |
| Mumps.....                      | 180   |
| Ophthalmia neonatorum.....      | 28    |
| Pneumonia (lobar).....          | 73    |
| Poliomyelitis.....              | 3     |
| Scarlet fever.....              | 345   |
| Septic sore throat.....         | 4     |
| Trichinosis.....                | 1     |
| Tuberculosis (pulmonary).....   | 77    |
| Tuberculosis (other forms)..... | 22    |
| Typhoid fever.....              | 14    |
| Whooping cough.....             | 125   |

## MICHIGAN

|                     |     |
|---------------------|-----|
| Diphtheria.....     | 125 |
| Measles.....        | 68  |
| Pneumonia.....      | 69  |
| Scarlet fever.....  | 204 |
| Smallpox.....       | 9   |
| Tuberculosis.....   | 29  |
| Typhoid fever.....  | 5   |
| Whooping cough..... | 111 |

## MINNESOTA

|                     |     |
|---------------------|-----|
| Chicken pox.....    | 343 |
| Diphtheria.....     | 81  |
| Pneumonia.....      | 3   |
| Measles.....        | 86  |
| Scarlet fever.....  | 217 |
| Smallpox.....       | 7   |
| Tuberculosis.....   | 50  |
| Typhoid fever.....  | 7   |
| Whooping cough..... | 9   |

## MISSISSIPPI

|                    |    |
|--------------------|----|
| Diphtheria.....    | 37 |
| Scarlet fever..... | 22 |
| Smallpox.....      | 4  |
| Typhoid fever..... | 19 |

## MISSOURI

## (Exclusive of Kansas City)

|                               |     |
|-------------------------------|-----|
| Cerebrospinal meningitis..... | 5   |
| Chicken pox.....              | 88  |
| Diphtheria.....               | 52  |
| Epidemic sore throat.....     | 6   |
| Glanders.....                 | 2   |
| Influenza.....                | 10  |
| Measles.....                  | 106 |
| Mumps.....                    | 7   |
| Pneumonia.....                | 3   |
| Scarlet fever.....            | 113 |
| Trachoma.....                 | 10  |
| Tuberculosis.....             | 52  |
| Typhoid fever.....            | 5   |
| Whooping cough.....           | 25  |

## MONTANA

|                     |     |
|---------------------|-----|
| Chicken pox.....    | 55  |
| Diphtheria.....     | 1   |
| German measles..... | 1   |
| Measles.....        | 105 |

## MONTANA—continued

|                     | Cases |
|---------------------|-------|
| Mumps.....          | 8     |
| Scarlet fever.....  | 63    |
| Smallpox.....       | 16    |
| Typhoid fever.....  | 1     |
| Whooping cough..... | 1     |

## NEBRASKA

|                         |     |
|-------------------------|-----|
| Chicken pox.....        | 121 |
| Diphtheria.....         | 9   |
| Influenza.....          | 11  |
| Measles.....            | 6   |
| Mumps.....              | 13  |
| Pneumonia.....          | 10  |
| Scarlet fever.....      | 33  |
| Septic sore throat..... | 7   |
| Smallpox.....           | 18  |
| Typhoid fever.....      | 23  |
| Whooping cough.....     | 33  |

## NEW JERSEY

|                     |     |
|---------------------|-----|
| Chicken pox.....    | 226 |
| Diphtheria.....     | 119 |
| Dysentery.....      | 1   |
| Influenza.....      | 15  |
| Measles.....        | 41  |
| Pneumonia.....      | 121 |
| Poliomyelitis.....  | 5   |
| Scarlet fever.....  | 179 |
| Typhoid fever.....  | 10  |
| Whooping cough..... | 205 |

## NEW MEXICO

|                               |    |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1  |
| Chicken pox.....              | 4  |
| Diphtheria.....               | 8  |
| Dysentery.....                | 1  |
| German measles.....           | 2  |
| Influenza.....                | 2  |
| Measles.....                  | 17 |
| Mumps.....                    | 1  |
| Pneumonia.....                | 2  |
| Scarlet fever.....            | 33 |
| Trachoma.....                 | 1  |
| Tuberculosis.....             | 7  |
| Typhoid fever.....            | 7  |
| Whooping cough.....           | 1  |

## NEW YORK

(Exclusive of New York City)

|                         |     |
|-------------------------|-----|
| Anthrax.....            | 3   |
| Chicken pox.....        | 582 |
| Diphtheria.....         | 116 |
| Dysentery.....          | 1   |
| German measles.....     | 44  |
| Influenza.....          | 16  |
| Malaria.....            | 1   |
| Measles.....            | 957 |
| Mumps.....              | 141 |
| Pneumonia.....          | 228 |
| Poliomyelitis.....      | 7   |
| Scarlet fever.....      | 196 |
| Septic sore throat..... | 3   |
| Smallpox.....           | 20  |
| Tetanus.....            | 2   |
| Typhoid fever.....      | 31  |
| Vincent's angina.....   | 2   |
| Whooping cough.....     | 302 |

\* Deaths.

## NORTH CAROLINA

|                         | Cases |
|-------------------------|-------|
| Chicken pox.....        | 150   |
| Diphtheria.....         | 120   |
| German measles.....     | 3     |
| Malaria.....            | 1     |
| Measles.....            | 42    |
| Scarlet fever.....      | 93    |
| Septic sore throat..... | 2     |
| Smallpox.....           | 72    |
| Typhoid fever.....      | 7     |
| Whooping cough.....     | 245   |

## OKLAHOMA

(Exclusive of Oklahoma City and Tulsa)

|                                            |     |
|--------------------------------------------|-----|
| Cerebrospinal meningitis—Grady County..... | 1   |
| Chicken pox.....                           | 22  |
| Diphtheria.....                            | 58  |
| Influenza.....                             | 152 |
| Malaria.....                               | 50  |
| Pneumonia.....                             | 60  |
| Poliomyelitis—Greer County.....            | 1   |
| Scarlet fever.....                         | 44  |
| Smallpox:                                  |     |
| McCurdin County.....                       | 33  |
| Scattering.....                            | 9   |
| Typhoid fever.....                         | 42  |
| Whooping cough.....                        | 32  |

## OREGON

|                               |    |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1  |
| Chicken pox.....              | 37 |
| Diphtheria.....               | 19 |
| Influenza.....                | 18 |
| Measles.....                  | 42 |
| Mumps.....                    | 10 |
| Pneumonia.....                | 16 |
| Scarlet fever.....            | 47 |
| Septic sore throat.....       | 4  |
| Smallpox.....                 | 18 |
| Trachoma.....                 | 2  |
| Tuberculosis.....             | 15 |
| Typhoid fever.....            | 1  |

## PENNSYLVANIA

|                                            |     |
|--------------------------------------------|-----|
| Cerebrospinal meningitis—Philadelphia..... | 1   |
| Chicken pox.....                           | 982 |
| Diphtheria.....                            | 211 |
| German measles.....                        | 20  |
| Impetigo contagiosa.....                   | 9   |
| Malaria.....                               | 2   |
| Measles.....                               | 702 |
| Mumps.....                                 | 58  |
| Ophthalmia neonatorum:                     |     |
| Allentown.....                             | 1   |
| Philadelphia.....                          | 2   |
| Pneumonia.....                             | 44  |
| Poliomyelitis:                             |     |
| Philadelphia.....                          | 1   |
| Red Lion.....                              | 1   |
| Scabies.....                               | 8   |
| Scarlet fever.....                         | 453 |
| Tuberculosis.....                          | 73  |
| Typhoid fever.....                         | 60  |
| Whooping cough.....                        | 361 |

| RHODE ISLAND                  |       | WASHINGTON—continued                             |       |
|-------------------------------|-------|--------------------------------------------------|-------|
|                               | Cases |                                                  | Cases |
| Chicken pox.....              | 2     | German measles.....                              | 21    |
| Diphtheria.....               | 7     | Lethargic encephalitis.....                      | 2     |
| German measles.....           | 1     | Measles.....                                     | 145   |
| Influenza.....                | 10    | Mumps.....                                       | 36    |
| Mumps.....                    | 1     | Pneumonia.....                                   | 1     |
| Ophthalmia neonatorum.....    | 1     | Scabies.....                                     | 2     |
| Pneumonia.....                | 3     | Scarlet fever.....                               | 109   |
| Scarlet fever.....            | 19    | Smallpox.....                                    | 39    |
| Tuberculosis.....             | 22    | Tuberculosis.....                                | 47    |
| Whooping cough.....           | 2     | Typhoid fever.....                               | 15    |
|                               |       | Whooping cough.....                              | 24    |
| TENNESSEE                     |       | WEST VIRGINIA                                    |       |
| Cerebrospinal meningitis:     |       |                                                  |       |
| Hawkins County.....           | 1     | Anthrax-Barbour County.....                      | 1     |
| Obion County.....             | 1     | Cerebrospinal meningitis:                        |       |
| Chicken pox.....              | 36    | Fayette County.....                              | 1     |
| Diphtheria.....               | 62    | Hampshire County.....                            | 1     |
| Influenza.....                | 66    | Chicken pox.....                                 | 115   |
| Malaria.....                  | 5     | Diphtheria.....                                  | 52    |
| Measles.....                  | 20    | Influenza.....                                   | 50    |
| Ophthalmia neonatorum.....    | 3     | Measles.....                                     | 57    |
| Paratyphoid fever.....        | 2     | Scarlet fever.....                               | 65    |
| Pellagra.....                 | 3     | Smallpox.....                                    | 2     |
| Pneumonia.....                | 56    | Tuberculosis.....                                | 17    |
| Scarlet fever.....            | 66    | Typhoid fever.....                               | 22    |
| Tetanus.....                  | 1     | Whooping cough.....                              | 54    |
| Tuberculosis.....             | 23    |                                                  |       |
| Typhoid fever.....            | 33    |                                                  |       |
| Whooping cough.....           | 59    |                                                  |       |
| TEXAS                         |       | WISCONSIN                                        |       |
| Chicken pox.....              | 12    | Milwaukee:                                       |       |
| Diphtheria.....               | 78    | Chicken pox.....                                 | 81    |
| Influenza.....                | 7     | Diphtheria.....                                  | 26    |
| Measles.....                  | 2     | German measles.....                              | 2     |
| Mumps.....                    | 2     | Lethargic encephalitis.....                      | 1     |
| Pneumonia.....                | 4     | Measles.....                                     | 11    |
| Polio-myelitis.....           | 2     | Mumps.....                                       | 41    |
| Scarlet fever.....            | 55    | Ophthalmia neonatorum.....                       | 1     |
| Small pox.....                | 2     | Pneumonia.....                                   | 17    |
| Typhoid fever.....            | 3     | Scarlet fever.....                               | 8     |
| Whooping cough.....           | 12    | Tuberculosis.....                                | 12    |
|                               |       | Typhoid fever.....                               | 1     |
|                               |       | Whooping cough.....                              | 42    |
|                               |       | Scattering:                                      |       |
|                               |       | Cerebrospinal meningitis.....                    | 1     |
|                               |       | Chicken pox.....                                 | 238   |
|                               |       | Diphtheria.....                                  | 42    |
|                               |       | German measles.....                              | 3     |
|                               |       | Influenza.....                                   | 36    |
|                               |       | Measles.....                                     | 515   |
|                               |       | Mumps.....                                       | 45    |
|                               |       | Pneumonia.....                                   | 17    |
|                               |       | Scarlet fever.....                               | 115   |
|                               |       | Smallpox.....                                    | 8     |
|                               |       | Tuberculosis.....                                | 15    |
|                               |       | Typhoid fever.....                               | 5     |
|                               |       | Whooping cough.....                              | 120   |
| UTAH                          |       | WYOMING                                          |       |
| Chicken pox.....              | 57    |                                                  |       |
| Diphtheria.....               | 9     | Cerebrospinal meningitis—Hot Springs County..... | 5     |
| German measles.....           | 3     | Chicken pox.....                                 | 9     |
| Measles.....                  | 291   | Diphtheria.....                                  | 2     |
| Mumps.....                    | 17    | German measles.....                              | 1     |
| Pneumonia.....                | 12    | Measles.....                                     | 13    |
| Scarlet fever.....            | 15    | Mumps.....                                       | 1     |
| Smallpox.....                 | 1     | Paratyphoid fever.....                           | 1     |
| Tuberculosis.....             | 1     | Pneumonia (broncho).....                         | 2     |
| Whooping cough.....           | 6     | Scarlet fever.....                               | 13    |
|                               |       | Whooping cough.....                              | 8     |
| VERMONT                       |       |                                                  |       |
| Chicken pox.....              | 58    |                                                  |       |
| Diphtheria.....               | 2     |                                                  |       |
| Measles.....                  | 125   |                                                  |       |
| Mumps.....                    | 28    |                                                  |       |
| Scarlet fever.....            | 4     |                                                  |       |
| Whooping cough.....           | 72    |                                                  |       |
| WASHINGTON                    |       |                                                  |       |
| Cerebrospinal meningitis..... | 6     |                                                  |       |
| Chicken pox.....              | 160   |                                                  |       |
| Diphtheria.....               | 39    |                                                  |       |



## Reports for Week Ended November 27, 1926

| DISTRICT OF COLUMBIA          |       | NORTH DAKOTA—continued |       |
|-------------------------------|-------|------------------------|-------|
|                               | Cases |                        | Cases |
| Chicken pox.....              | 21    | Mumps.....             | 2     |
| Diphtheria.....               | 19    | Pneumonia.....         | 6     |
| Measles.....                  | 2     | Poliomyelitis.....     | 1     |
| Pneumonia.....                | 13    | Scarlet fever.....     | 76    |
| Scarlet fever.....            | 12    | Smallpox.....          | 13    |
| Tuberculosis.....             | 19    | Tuberculosis.....      | 5     |
| Typhoid fever.....            | 2     | Whooping cough.....    | 3     |
| Whooping cough.....           | 5     |                        |       |
| IDAHO                         |       | SOUTH CAROLINA         |       |
| Chicken pox.....              | 4     | Chicken pox.....       | 62    |
| Diphtheria.....               | 3     | Dengue.....            | 1     |
| Measles.....                  | 27    | Diphtheria.....        | 76    |
| Scarlet fever.....            | 36    | Hookworm disease.....  | 18    |
| Smallpox.....                 | 3     | Influenza.....         | 642   |
| Tuberculosis (pulmonary)..... | 3     | Malaria.....           | 179   |
| Whooping cough.....           | 5     | Measles.....           | 8     |
|                               |       | Paratyphoid fever..... | 4     |
| NORTH DAKOTA                  |       | Pellagra.....          | 26    |
| Chicken pox.....              | 75    | Scarlet fever.....     | 20    |
| Diphtheria.....               | 6     | Smallpox.....          | 15    |
| German measles.....           | 15    | Tuberculosis.....      | 43    |
| Letbargic encephalitis.....   | 1     | Typhoid fever.....     | 27    |
| Measles.....                  | 163   | Whooping cough.....    | 36    |

## SUMMARY OF MONTHLY REPORTS FROM STATES

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

| State                  | Cerebro-spinal meningitis | Diphtheria | Influenza | Malaria | Measles | Pellagra | Poliomyelitis | Scarlet fever | Smallpox | Typhoid fever |
|------------------------|---------------------------|------------|-----------|---------|---------|----------|---------------|---------------|----------|---------------|
| <i>Iowa, 1926</i>      |                           |            |           |         |         |          |               |               |          |               |
| February.....          | 3                         | 82         |           |         | 587     |          | 0             | 250           | 220      | 0             |
| March.....             | 1                         | 56         | 626       |         | 972     |          | 0             | 238           | 128      | 2             |
| April.....             | 1                         | 41         | 11        |         | 870     |          | 0             | 232           | 213      | 2             |
| May.....               | 0                         | 43         |           |         | 650     |          | 1             | 134           | 135      | 3             |
| <i>September, 1926</i> |                           |            |           |         |         |          |               |               |          |               |
| Arkansas.....          | 1                         | 13         | 96        | 601     | 18      | 44       | 1             | 18            | 14       | 164           |
| Wyoming.....           | 0                         | 3          | 5         |         | 19      |          | 0             | 24            | 1        | 6             |
| <i>October, 1926</i>   |                           |            |           |         |         |          |               |               |          |               |
| Delaware.....          | 0                         | 15         | 0         | 1       | 3       |          | 2             | 51            | 0        | 24            |
| Florida.....           | 0                         | 181        | 9         | 45      | 5       | 1        | 0             | 33            | 22       | 52            |
| Idaho.....             | 3                         | 28         | 2         |         | 31      |          | 0             | 127           | 1        | 16            |
| Iowa.....              | 1                         | 114        |           |         | 28      |          | 1             | 177           | 12       | 33            |
| Mississippi.....       |                           | 229        | 2, 278    | 8, 080  | 220     | 392      | 4             | 103           | 18       | 202           |
| Montana.....           | 5                         | 9          | 9         |         | 308     |          | 3             | 254           | 35       | 19            |
| Oregon.....            | 5                         | 72         | 70        | 3       | 53      |          | 8             | 218           | 79       | 37            |
| Rhode Island.....      | 0                         | 41         | 13        |         | 6       |          | 4             | 21            | 0        | 4             |
| South Carolina.....    | 0                         | 676        | 1, 615    | 3, 506  | 46      | 235      | 28            | 114           | 14       | 356           |
| Virginia.....          | 2                         | 689        | 909       | 153     | 127     | 8        | 11            | 393           | 11       | 220           |
| Washington.....        | 13                        | 191        | 11        |         | 80      |          | 2             | 293           | 90       | 55            |
| Wyoming.....           | 0                         | 6          | 1         |         | 21      |          | 3             | 59            | 0        | 6             |

| <i>September, 1926</i>                |  | Cases |
|---------------------------------------|--|-------|
| Chicken pox:                          |  |       |
| Arkansas.....                         |  | 73    |
| Wyoming.....                          |  | 9     |
| Hookworm disease:                     |  |       |
| Arkansas.....                         |  | 10    |
| Mumps:                                |  |       |
| Arkansas.....                         |  | 32    |
| Wyoming.....                          |  | 1     |
| Ophthalmia neonatorum:                |  |       |
| Arkansas.....                         |  | 3     |
| Paratyphoid fever:                    |  |       |
| Arkansas.....                         |  | 12    |
| Wyoming.....                          |  | 2     |
| Rocky Mountain spotted or tick fever: |  |       |
| Wyoming.....                          |  | 1     |
| Septic sore throat:                   |  |       |
| Wyoming.....                          |  | 1     |
| Trachoma:                             |  |       |
| Arkansas.....                         |  | 3     |
| Tularemia:                            |  |       |
| Wyoming.....                          |  | 1     |
| Whooping cough:                       |  |       |
| Arkansas.....                         |  | 133   |
| Wyoming.....                          |  | 15    |
| <i>October, 1926</i>                  |  |       |
| Chicken pox:                          |  |       |
| Delaware.....                         |  | 8     |
| Florida.....                          |  | 3     |
| Idaho.....                            |  | 65    |
| Iowa.....                             |  | 98    |
| Mississippi.....                      |  | 132   |
| Montana.....                          |  | 129   |
| Oregon.....                           |  | 91    |
| Rhode Island.....                     |  | 17    |
| South Carolina.....                   |  | 44    |
| Virginia.....                         |  | 118   |
| Washington.....                       |  | 370   |
| Wyoming.....                          |  | 39    |
| Conjunctivitis:                       |  |       |
| Idaho.....                            |  | 5     |
| Dengue:                               |  |       |
| Florida.....                          |  | 1     |
| Mississippi.....                      |  | 101   |
| South Carolina.....                   |  | 33    |
| Dysentery:                            |  |       |
| Mississippi (amebic).....             |  | 49    |
| Mississippi (bacillary).....          |  | 453   |
| Oregon.....                           |  | 6     |
| Virginia.....                         |  | 211   |
| Washington.....                       |  | 10    |
| German measles:                       |  |       |
| Florida.....                          |  | 3     |
| Iowa.....                             |  | 4     |
| Rhode Island.....                     |  | 1     |
| Washington.....                       |  | 10    |
| Wyoming.....                          |  | 1     |
| Hookworm disease:                     |  |       |
| Florida.....                          |  | 133   |
| South Carolina.....                   |  | 156   |
| Mississippi.....                      |  | 286   |
| Virginia.....                         |  | 13    |
| Impetigo contagiosa:                  |  |       |
| Iowa.....                             |  | 1     |
| Oregon.....                           |  | 8     |

| <i>October, 1926—Continued</i> |  | Cases |
|--------------------------------|--|-------|
| Lethargic encephalitis:        |  |       |
| Oregon.....                    |  | 1     |
| Washington.....                |  | 4     |
| Mumps:                         |  |       |
| Florida.....                   |  | 9     |
| Idaho.....                     |  | 9     |
| Iowa.....                      |  | 11    |
| Mississippi.....               |  | 191   |
| Montana.....                   |  | 2     |
| Oregon.....                    |  | 42    |
| Rhode Island.....              |  | 1     |
| Washington.....                |  | 93    |
| Wyoming.....                   |  | 2     |
| Ophthalmia neonatorum:         |  |       |
| Mississippi.....               |  | 20    |
| Paratyphoid fever:             |  |       |
| Florida.....                   |  | 3     |
| South Carolina.....            |  | 17    |
| Washington.....                |  | 2     |
| Puerperal septicemia:          |  |       |
| Mississippi.....               |  | 58    |
| Rabies (in animals):           |  |       |
| Mississippi.....               |  | 11    |
| Oregon.....                    |  | 3     |
| South Carolina.....            |  | 16    |
| Washington.....                |  | 1     |
| Scabies:                       |  |       |
| Iowa.....                      |  | 2     |
| Oregon.....                    |  | 25    |
| Septic sore throat:            |  |       |
| Idaho.....                     |  | 2     |
| Oregon.....                    |  | 3     |
| Rhode Island.....              |  | 3     |
| Washington.....                |  | 1     |
| Wyoming.....                   |  | 1     |
| Tetanus:                       |  |       |
| Florida.....                   |  | 1     |
| Trachoma:                      |  |       |
| Mississippi.....               |  | 7     |
| Montana.....                   |  | 2     |
| Washington.....                |  | 1     |
| Tularemia:                     |  |       |
| Wyoming.....                   |  | 4     |
| Typhus fever:                  |  |       |
| Florida.....                   |  | 2     |
| Wyoming.....                   |  | 2     |
| Vincent's angina:              |  |       |
| Iowa.....                      |  | 1     |
| Whooping cough:                |  |       |
| Delaware.....                  |  | 4     |
| Florida.....                   |  | 20    |
| Idaho.....                     |  | 10    |
| Iowa.....                      |  | 30    |
| Mississippi.....               |  | 782   |
| Montana.....                   |  | 24    |
| Oregon.....                    |  | 27    |
| Rhode Island.....              |  | 19    |
| South Carolina.....            |  | 202   |
| Virginia.....                  |  | 723   |
| Washington.....                |  | 37    |
| Wyoming.....                   |  | 29    |

**Number of Cases of Certain Communicable Diseases Reported for the Month  
of September, 1926, by State Health Officers**

| State                            | Chick-<br>en<br>pox | Diph-<br>theria | Meas-<br>les | Mumps | Scarlet<br>fever | Small-<br>pox | Tuber-<br>culo-<br>sis | Ty-<br>phoid<br>fever | Whoop-<br>ing<br>cough |
|----------------------------------|---------------------|-----------------|--------------|-------|------------------|---------------|------------------------|-----------------------|------------------------|
| Alabama.....                     | 25                  | 141             | 57           | 29    | 66               | 15            | 242                    | 393                   | 114                    |
| Arizona.....                     | 9                   | 6               | 14           | 4     | 13               |               | 96                     | 10                    |                        |
| Arkansas.....                    | 73                  | 13              | 18           | 32    | 18               | 14            | 62                     | 164                   | 133                    |
| California.....                  | 299                 | 503             | 1,289        | 412   | 425              | 34            | 744                    | 127                   | 280                    |
| Colorado.....                    | 11                  | 90              | 22           | 3     | 54               | 14            | 119                    | 52                    | 24                     |
| Connecticut.....                 | 17                  | 42              | 26           | 8     | 88               | 0             | 130                    | 34                    | 110                    |
| Delaware.....                    |                     | 8               |              |       | 19               | 0             | 19                     | 10                    | 4                      |
| District of Columbia.....        | 9                   | 48              | 3            |       | 25               | 0             | 106                    | 24                    | 57                     |
| Florida.....                     | 4                   | 80              | 27           | 26    | 19               | 39            | 46                     | 48                    | 28                     |
| Georgia.....                     | 36                  | 165             | 21           | 21    | 37               | 20            | 74                     | 339                   | 68                     |
| Idaho.....                       | 6                   | 28              | 9            | 7     | 48               | 2             | 12                     | 27                    | 38                     |
| Illinois.....                    | 115                 | 273             | 236          | 77    | 376              | 26            | 1,291                  | 308                   | 714                    |
| Indiana.....                     | 7                   | 125             | 54           |       | 155              | 26            | 151                    | 190                   | 147                    |
| Iowa.....                        | 10                  | 45              | 20           | 2     | 60               | 10            | 64                     | 9                     | 21                     |
| Kansas.....                      | 34                  | 48              | 37           | 9     | 139              | 8             | 133                    | 124                   | 231                    |
| Kentucky <sup>1</sup> .....      |                     |                 |              |       |                  |               |                        |                       |                        |
| Louisiana.....                   | 1                   | 73              | 3            | 2     | 23               | 9             | 159                    | 129                   | 15                     |
| Maine.....                       | 27                  | 13              | 82           | 4     | 81               | 0             | 26                     | 33                    | 64                     |
| Maryland.....                    | 14                  | 96              | 16           | 17    | 71               | 1             | 186                    | 283                   | 298                    |
| Massachusetts.....               | 107                 | 209             | 70           | 142   | 353              | 0             | 494                    | 51                    | 379                    |
| Michigan.....                    | 59                  | 369             | 78           | 12    | 323              | 12            | 509                    | 127                   | 519                    |
| Minnesota.....                   | 53                  | 189             | 66           |       | 437              | 2             | 280                    | 36                    | 167                    |
| Mississippi.....                 | 239                 | 145             | 246          | 278   | 36               | 4             | 352                    | 418                   | 1,174                  |
| Missouri.....                    | 6                   | 93              | 49           | 26    | 157              | 8             | 126                    | 162                   | 137                    |
| Montana.....                     | 17                  | 29              | 18           | 4     | 74               | 9             | 41                     | 16                    | 22                     |
| Nebraska <sup>1</sup> .....      |                     |                 |              |       |                  |               |                        |                       |                        |
| Nevada <sup>1</sup> .....        |                     |                 |              |       |                  |               |                        |                       |                        |
| New Hampshire <sup>1</sup> ..... |                     |                 |              |       |                  |               |                        |                       |                        |
| New Jersey.....                  | 54                  | 178             | 36           |       | 174              | 0             | 392                    | 138                   | 452                    |
| New Mexico.....                  | 1                   | 12              | 6            | 6     | 14               | 8             | 101                    | 46                    | 36                     |
| New York.....                    | 246                 | 538             | 328          | 214   | 394              | 3             | 1,831                  | 478                   | 1,157                  |
| North Carolina.....              | 14                  | 432             | 62           |       | 213              | 30            |                        | 335                   | 894                    |
| North Dakota.....                | 10                  | 6               | 24           | 11    | 104              | 16            | 15                     | 14                    | 84                     |
| Ohio.....                        | 120                 | 374             | 56           | 29    | 360              | 18            | 595                    | 573                   | 779                    |
| Oklahoma <sup>2</sup> .....      | 9                   | 122             | 36           | 4     | 86               | 2             | 156                    | 535                   | 66                     |
| Oregon.....                      | 20                  | 34              | 27           | 23    | 87               | 33            | 61                     | 42                    | 15                     |
| Pennsylvania.....                |                     |                 |              |       |                  |               |                        |                       |                        |
| Rhode Island.....                | 3                   | 17              | 7            | 2     | 15               | 0             | 21                     | 12                    | 42                     |
| South Carolina.....              | 35                  | 304             | 24           |       | 37               | 23            | 164                    | 443                   | 88                     |
| South Dakota.....                | 15                  | 9               | 90           | 3     | 94               | 0             | 11                     | 11                    | 40                     |
| Tennessee.....                   | 18                  | 140             | 25           | 7     | 130              | 7             | 138                    | 881                   | 219                    |
| Texas <sup>1</sup> .....         |                     |                 |              |       |                  |               |                        |                       |                        |
| Utah <sup>1</sup> .....          |                     |                 |              |       |                  |               |                        |                       |                        |
| Vermont.....                     | 17                  | 3               | 99           | 15    | 23               | 0             | 117                    | 3                     | 135                    |
| Virginia.....                    | 41                  | 280             | 138          |       | 185              | 8             | 135                    | 294                   | 699                    |
| Washington.....                  | 57                  | 110             | 39           | 58    | 159              | 59            | 141                    | 61                    | 57                     |
| West Virginia.....               | 20                  | 81              | 48           |       | 104              | 25            | 44                     | 212                   | 192                    |
| Wisconsin.....                   | 67                  | 117             | 381          | 53    | 198              | 19            | 169                    | 43                    | 911                    |
| Wyoming.....                     | 9                   | 8               | 19           | 1     | 24               | 1             | 1                      | 8                     | 15                     |

<sup>1</sup> Pulmonary.<sup>2</sup> Reports received weekly.<sup>3</sup> Report not received at time of going to press.<sup>4</sup> Reports received annually.<sup>5</sup> Exclusive of Oklahoma City and Tulsa.

# Case Rates per 1,000 Population (annual basis) for the Month of September, 1926

| State                            | Chick-<br>en<br>pox | Diph-<br>theria | Mea-<br>sles | Mumps | Scarlet<br>fever | Small-<br>pox | Tuber-<br>culo-<br>sis | Ty-<br>phoid<br>fever | Whoop-<br>ing<br>cough |
|----------------------------------|---------------------|-----------------|--------------|-------|------------------|---------------|------------------------|-----------------------|------------------------|
| Alabama.....                     | 0.12                | 0.69            | 0.28         | 0.14  | 0.32             | 0.07          | 1.18                   | 1.92                  | 0.56                   |
| Arizona.....                     | .26                 | .17             | .40          | .12   | .38              |               | 2.77                   | .29                   |                        |
| Arkansas.....                    | .47                 | .08             | .12          | .21   | .12              | .09           | .40                    | 1.07                  | .86                    |
| California.....                  | .88                 | 1.48            | 3.80         | 1.21  | 1.25             | .10           | 2.19                   | .37                   | .82                    |
| Colorado.....                    | .13                 | 1.06            | .26          | .04   | .64              | .16           | 1.40                   | .61                   | .28                    |
| Connecticut.....                 | .13                 | .33             | .20          | .06   | .69              | .00           | 1.01                   | .27                   | .86                    |
| Delaware.....                    |                     | .41             |              |       | .98              | .00           | 1.46                   | .51                   | .21                    |
| District of Columbia.....        | .22                 | 1.15            | .07          |       | .60              | .00           | 2.53                   | .57                   | 1.36                   |
| Florida.....                     | .04                 | .87             | .30          | .28   | .21              | .43           | .50                    | .52                   | .31                    |
| Georgia.....                     | .14                 | .65             | .08          | .08   | .15              | .08           | .29                    | 1.34                  | .27                    |
| Idaho.....                       | .15                 | .68             | .22          | .17   | 1.16             | .05           | 1.05                   | .65                   | .92                    |
| Illinois.....                    | .20                 | .47             | .41          | .13   | .65              | .04           | 2.23                   | .53                   | 1.23                   |
| Indiana.....                     | .03                 | .49             | .21          |       | .61              | .10           | .60                    | .75                   | .58                    |
| Iowa.....                        | .05                 | .22             | .10          | .01   | .29              | .05           | .31                    | .04                   | .10                    |
| Kansas.....                      | .23                 | .32             | .25          | .06   | .93              | .05           | .89                    | .83                   | 1.54                   |
| Kentucky <sup>2</sup> .....      |                     |                 |              |       |                  |               |                        |                       |                        |
| Louisiana.....                   | .01                 | .47             | .02          | .01   | .15              | .06           | 1.02                   | .83                   | .10                    |
| Maine.....                       | .42                 | .20             | 1.27         | .06   | 1.26             | .00           | .40                    | .51                   | .99                    |
| Maryland.....                    | .11                 | .74             | .13          | .13   | .56              | .01           | 1.46                   | 2.22                  | 2.30                   |
| Massachusetts.....               | .31                 | .61             | .20          | .41   | 1.03             | .00           | 1.44                   | .15                   | 1.10                   |
| Michigan.....                    | .17                 | 1.06            | .22          | .63   | .93              | .03           | 1.46                   | .36                   | 1.49                   |
| Minnesota.....                   | .25                 | .89             | .31          |       | 2.05             | .01           | 1.22                   | .17                   | .50                    |
| Mississippi.....                 | 1.62                | .99             | 1.67         | 1.89  | .24              | .03           | 2.39                   | 2.84                  | 7.98                   |
| Missouri.....                    | .02                 | .33             | .17          | .09   | .55              | .03           | .44                    | .57                   | .48                    |
| Montana.....                     | .31                 | .53             | .33          | .07   | 1.35             | .16           | .75                    | .29                   | .40                    |
| Nebraska <sup>3</sup> .....      |                     |                 |              |       |                  |               |                        |                       |                        |
| Nevada <sup>4</sup> .....        |                     |                 |              |       |                  |               |                        |                       |                        |
| New Hampshire <sup>4</sup> ..... |                     |                 |              |       |                  |               |                        |                       |                        |
| New Jersey.....                  | .18                 | .59             | .12          | .19   | .45              | .00           | 1.34                   | .47                   | 1.54                   |
| New Mexico.....                  | .03                 | .38             | .19          | .19   | .25              | .25           | 3.21                   | 1.46                  | 1.15                   |
| New York.....                    | .27                 | .58             | .36          | .23   | .43              | .00           | 1.98                   | .52                   | 1.25                   |
| North Carolina.....              | .06                 | 1.88            | .27          |       | .93              | .13           |                        | 1.46                  | 3.89                   |
| North Dakota.....                | .18                 | .11             | .42          | .19   | 1.82             | .28           | .26                    | .25                   | 1.47                   |
| Ohio.....                        | .23                 | .71             | .11          | .05   | .68              | .03           | 1.13                   | 1.09                  | 1.48                   |
| Oklahoma <sup>5</sup> .....      | .05                 | .73             | .22          | .02   | .52              | .01           | .93                    | 3.26                  | .40                    |
| Oregon.....                      | .28                 | .48             | .38          | .33   | 1.23             | .47           | .87                    | .60                   | .21                    |
| Pennsylvania.....                |                     |                 |              |       |                  |               |                        |                       |                        |
| Rhode Island.....                | .06                 | .32             | .13          | .04   | .28              | .00           | .40                    | .23                   | .79                    |
| South Carolina.....              | .24                 | 2.06            | .16          |       | .25              | .16           | 1.11                   | 3.00                  | .60                    |
| South Dakota.....                | .27                 | .16             | 1.63         | .05   | 1.70             | .00           | .20                    | .20                   | .72                    |
| Tennessee.....                   | .09                 | .70             | .12          | .03   | .65              | .03           | .69                    | 4.39                  | 1.09                   |
| Texas <sup>1</sup> .....         |                     |                 |              |       |                  |               |                        |                       |                        |
| Utah <sup>1</sup> .....          |                     |                 |              |       |                  |               |                        |                       |                        |
| Vermont.....                     | .59                 | .10             | 3.42         | .52   | .79              | .00           | 1.59                   | .10                   | 4.66                   |
| Virginia.....                    | .20                 | 1.38            | .68          |       | .91              | .04           | 1.66                   | 1.45                  | 3.44                   |
| Washington.....                  | .46                 | .89             | .32          | .47   | 1.29             | .48           | 1.14                   | .49                   | .46                    |
| West Virginia.....               | .15                 | .61             | .36          |       | .78              | .19           | .33                    | 1.59                  | 1.44                   |
| Wisconsin.....                   | .29                 | .50             | 1.64         | .23   | .85              | .08           | .73                    | .18                   | 3.91                   |
| Wyoming.....                     | .48                 | .16             | 1.02         | .05   | 1.29             | .05           | .65                    | .43                   | .80                    |

<sup>1</sup> Pulmonary.<sup>2</sup> Reports received weekly.<sup>3</sup> Report not received at time of going to press.<sup>4</sup> Reports received annually.<sup>5</sup> Exclusive of Oklahoma City and Tulsa.

## GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

*Diphtheria.*—For the week ended November 20, 1926, 41 States reported 2,702 cases of diphtheria. For the week ended November 21, 1925, the same States reported 2,298 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 30,400,000, reported 1,345 cases of diphtheria for the week ended November 20, 1926. Last year for the corresponding week they reported 1,007 cases. The estimated expectancy for these cities was 1,392 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

*Measles.*—Thirty-nine States reported 4,215 cases of measles for the week ended November 20, 1926, and 3,576 cases of this disease for the week ended November 21, 1925. One hundred and one cities reported 788 cases of measles for the week this year, and 1,273 cases last year.

*Poliomyelitis.*—The health officers of 41 States reported 40 cases of poliomyelitis for the week ended November 20, 1926. The same States reported 70 cases for the week ended November 21, 1925.

*Scarlet fever.*—Scarlet fever was reported for the week as follows: Forty-one States—this year, 3,905 cases; last year, 3,435 cases; 101 cities—this year, 1,242 cases; last year, 1,021 cases; estimated expectancy, 942 cases.

*Smallpox.*—For the week ended November 20, 1926, 41 States reported 370 cases of smallpox. Last year for the corresponding week they reported 292 cases. One hundred and one cities reported smallpox for the week as follows: 1926, 28 cases; 1925, 93 cases; estimated expectancy, 47 cases. No deaths from smallpox were reported by these cities for the week this year.

*Typhoid fever.*—Six hundred and fifty-nine cases of typhoid fever were reported for the week ended November 20, 1926, by 41 States. For the corresponding week of 1925 the same States reported 627 cases of this disease. One hundred and one cities reported 92 cases of typhoid fever for the week this year and 96 cases for the corresponding week last year. The estimated expectancy for these cities was 95 cases.

*Influenza and pneumonia.*—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 29,730,000, as follows: 1926, 760 deaths; 1925, 865 deaths.

*City reports for week ended November 20, 1926*

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

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

| Division, State, and city | Population July 1, 1925, estimated | Chick- en pox, cases re- ported | Diphtheria                      |                  | Influenza        |                   | Meas- les, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths re- ported |
|---------------------------|------------------------------------|---------------------------------|---------------------------------|------------------|------------------|-------------------|-----------------------------|-------------------------|--------------------------------|
|                           |                                    |                                 | Cases, esti- mated expec- tancy | Cases re- ported | Cases re- ported | Deaths re- ported |                             |                         |                                |
| NEW ENGLAND               |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Maine:                    |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Portland.....             | 75,333                             | 20                              | 2                               | 0                | 1                | 0                 | 1                           | 0                       | 2                              |
| Newhamphshire:            |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Concord.....              | 22,546                             | 0                               | 0                               | 0                | 0                | 0                 | 0                           | 0                       | 0                              |
| Manchester.....           | 83,097                             | 0                               | 5                               | 1                | 0                | 1                 | 10                          | 0                       | 0                              |
| Vermont:                  |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Barre.....                | 10,008                             | 1                               | 0                               | 1                | 0                | 0                 | 13                          | 0                       | 0                              |
| Burlington.....           | 24,089                             | 2                               | 0                               | 0                | 0                | 0                 | 0                           | 0                       | 1                              |
| Massachusetts:            |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Boston.....               | 779,620                            | 73                              | 64                              | 37               | 4                | 0                 | 2                           | 40                      | 23                             |
| Fall River.....           | 128,993                            | 1                               | 5                               | 4                | 1                | 1                 | 1                           | 4                       | 4                              |
| Springfield.....          | 142,065                            | 5                               | 4                               | 2                | 0                | 0                 | 2                           | 0                       | 1                              |
| Worcester.....            | 190,757                            | 22                              | 7                               | 7                | 0                | 0                 | 0                           | 2                       | 2                              |
| Rhode Island:             |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Pawtucket.....            | 69,760                             | 0                               | 2                               | 0                | 0                | 0                 | 0                           | 0                       | 3                              |
| Providence.....           | 267,918                            | 0                               | 10                              | 4                | 0                | 0                 | 0                           | 0                       | 3                              |
| Connecticut:              |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Bridgeport.....           | (1)                                | 1                               | 10                              | 3                | 1                | 0                 | 1                           | 3                       | 0                              |
| Hartford.....             | 160,197                            | 7                               | 10                              | 0                | 0                | 0                 | 0                           | 2                       | 4                              |
| New Haven.....            | 178,927                            | 8                               | 4                               | 1                | 0                | 0                 | 0                           | 0                       | 2                              |
| MIDDLE ATLANTIC           |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| New York:                 |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Buffalo.....              | 538,016                            | 53                              | 25                              | 16               | 1                | 0                 | 3                           | 6                       | 10                             |
| New York.....             | 5,873,356                          | 170                             | 197                             | 182              | 77               | 9                 | 13                          | 79                      | 150                            |
| Rochester.....            | 316,786                            | 11                              | 11                              | 5                | -----            | 1                 | 2                           | 0                       | 3                              |
| Syracuse.....             | 182,003                            | 8                               | 12                              | 3                | -----            | 0                 | 19                          | 12                      | 6                              |
| New Jersey:               |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Camden.....               | 128,642                            | 17                              | 6                               | 18               | 1                | 1                 | 1                           | 0                       | 3                              |
| Newark.....               | 452,513                            | 41                              | 17                              | 5                | 5                | 0                 | 5                           | 9                       | 13                             |
| Trenton.....              | 132,020                            | 2                               | 7                               | 2                | 1                | 0                 | 0                           | 0                       | 4                              |
| Pennsylvania:             |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Philadelphia.....         | 1,979,364                          | 151                             | 82                              | 58               | -----            | 6                 | 4                           | 11                      | 62                             |
| Pittsburgh.....           | 631,563                            | 82                              | 35                              | 30               | -----            | 3                 | 7                           | 0                       | 20                             |
| Reading.....              | 112,707                            | 15                              | 4                               | 0                | -----            | 0                 | 2                           | 1                       | 1                              |
| Scranton.....             | 142,266                            | 0                               | 5                               | 4                | -----            | 0                 | 0                           | 1                       | 9                              |
| EAST NORTH CENTRAL        |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Ohio:                     |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Cincinnati.....           | 409,333                            | 13                              | 25                              | 24               | 0                | 1                 | 2                           | 11                      | 11                             |
| Cleveland.....            | 936,485                            | 47                              | 50                              | 131              | 0                | 1                 | 3                           | 1                       | 12                             |
| Columbus.....             | 279,836                            | 13                              | 7                               | 14               | 0                | 0                 | 1                           | 50                      | 8                              |
| Toledo.....               | 287,380                            | 80                              | 19                              | 8                | 0                | 0                 | 2                           | 0                       | 6                              |
| Indiana:                  |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Fort Wayne.....           | 97,846                             | 2                               | 4                               | 8                | 0                | 1                 | 0                           | 0                       | 2                              |
| Indianapolis.....         | 358,819                            | 65                              | 12                              | 27               | 0                | 1                 | 0                           | 0                       | 12                             |
| South Bend.....           | 80,091                             | 7                               | 3                               | 4                | 0                | 0                 | 12                          | 0                       | 0                              |
| Terre Haute.....          | 71,071                             | 2                               | 4                               | 4                | 0                | 0                 | 0                           | 0                       | 2                              |
| Illinois:                 |                                    |                                 |                                 |                  |                  |                   |                             |                         |                                |
| Chicago.....              | 2,995,239                          | 176                             | 163                             | 78               | 12               | 9                 | 139                         | 30                      | 48                             |
| Peoria.....               | 81,564                             | 8                               | 1                               | 0                | 0                | 0                 | 38                          | 9                       | 4                              |
| Springfield.....          | 63,923                             | 11                              | 3                               | 0                | 0                | 0                 | 2                           | 0                       | 3                              |

<sup>1</sup> No estimate made.

## City reports for week ended November 20, 1926—Continued

| Division, State, and city    | Population July 1, 1925, estimated | Chicken pox, cases re-reported | Diphtheria                  |                   | Influenza         |                    | Measles, cases re-reported | Mumps, cases re-reported | Pneumonia, deaths re-reported |
|------------------------------|------------------------------------|--------------------------------|-----------------------------|-------------------|-------------------|--------------------|----------------------------|--------------------------|-------------------------------|
|                              |                                    |                                | Cases, estimated expectancy | Cases re-reported | Cases re-reported | Deaths re-reported |                            |                          |                               |
| EAST NORTH CENTRAL—continued |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Michigan:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Detroit.....                 | 1,245,824                          | 123                            | 71                          | 108               | 2                 | 0                  | 2                          | 17                       | 32                            |
| Flint.....                   | 130,316                            | 26                             | 14                          | 5                 | 0                 | 0                  | 3                          | 0                        | 3                             |
| Grand Rapids.....            | 153,698                            | 6                              | 8                           | 2                 | 0                 | 0                  | 0                          | 0                        | 1                             |
| Wisconsin:                   |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Kenosha.....                 | 50,891                             | 12                             | 3                           | 1                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| Madison.....                 | 46,385                             | 14                             | 1                           | 2                 | 0                 | 0                  | 1                          | 0                        | 2                             |
| Milwaukee.....               | 509,192                            | 121                            | 34                          | 20                | 1                 | 1                  | 11                         | 33                       | 19                            |
| Racine.....                  | 67,707                             | 53                             | 2                           | 2                 | 0                 | 0                  | 1                          | 14                       | 0                             |
| Superior.....                | 39,671                             | 3                              | 1                           | 0                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| WEST NORTH CENTRAL           |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Minnesota:                   |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Duluth.....                  | 110,502                            | 11                             | 4                           | 0                 | 0                 | 0                  | 79                         | 0                        | 1                             |
| Minneapolis.....             | 425,435                            | 169                            | 30                          | 35                | 0                 | 1                  | 0                          | 1                        | 17                            |
| St. Paul.....                | 246,001                            | 38                             | 21                          | 11                | 0                 | 0                  | 13                         | 8                        | 12                            |
| Iowa:                        |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Davenport.....               | 52,469                             | 0                              | 2                           | 1                 | 0                 | -----              | 6                          | 1                        | -----                         |
| Des Moines.....              | 141,441                            | 0                              | 7                           | 5                 | 0                 | -----              | 0                          | 0                        | -----                         |
| Sioux City.....              | 76,411                             | 29                             | 3                           | 2                 | 0                 | -----              | 0                          | 0                        | -----                         |
| Waterloo.....                | 36,771                             | 50                             | 1                           | 0                 | 0                 | -----              | 1                          | 0                        | -----                         |
| Missouri:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Kansas City.....             | 367,481                            | 85                             | 15                          | 6                 | 1                 | 1                  | 0                          | 3                        | 10                            |
| St. Joseph.....              | 78,342                             | 6                              | 5                           | 1                 | 0                 | 0                  | 0                          | 1                        | 7                             |
| St. Louis.....               | 821,543                            | 21                             | 58                          | 43                | 2                 | 1                  | 3                          | 5                        | -----                         |
| North Dakota:                |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Fargo.....                   | 26,403                             | 12                             | 1                           | 1                 | 0                 | 0                  | 0                          | 2                        | 2                             |
| South Dakota:                |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Aberdeen.....                | 15,036                             | 7                              | 0                           | 0                 | 0                 | -----              | 0                          | 0                        | -----                         |
| Sioux Falls.....             | 30,127                             | 4                              | 1                           | 0                 | 0                 | -----              | 0                          | 0                        | -----                         |
| Nebraska:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Lincoln.....                 | 60,941                             | 9                              | 2                           | 0                 | 0                 | 0                  | 3                          | 1                        | 1                             |
| Omaha.....                   | 211,768                            | 11                             | 8                           | 4                 | 0                 | 0                  | 1                          | 2                        | 2                             |
| Kansas:                      |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Topeka.....                  | 55,411                             | 32                             | 4                           | 2                 | 0                 | 0                  | 0                          | 0                        | 3                             |
| Wichita.....                 | 88,367                             | 13                             | 8                           | 1                 | 0                 | 0                  | 1                          | 0                        | 3                             |
| SOUTH ATLANTIC               |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Delaware:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Wilmington.....              | 122,049                            | 10                             | 4                           | 0                 | 0                 | 0                  | 0                          | 0                        | 2                             |
| Maryland:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Baltimore.....               | 796,296                            | 143                            | 36                          | 23                | 9                 | 2                  | 3                          | 3                        | 18                            |
| Cumberland.....              | 33,741                             | 0                              | 1                           | 0                 | 1                 | 0                  | 1                          | 0                        | 1                             |
| Frederick.....               | 12,035                             | 0                              | 0                           | 1                 | 0                 | 0                  | 1                          | 0                        | 0                             |
| District of Columbia:        |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Washington.....              | 497,906                            | 33                             | 27                          | 15                | 0                 | 0                  | 5                          | 0                        | 8                             |
| Virginia:                    |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Lynchburg.....               | 30,395                             | 0                              | 2                           | 2                 | 0                 | 0                  | 1                          | 0                        | 4                             |
| Norfolk.....                 | ( <sup>1</sup> )                   | 8                              | 6                           | 2                 | 0                 | 0                  | 0                          | 0                        | 7                             |
| Richmond.....                | 186,403                            | 8                              | 17                          | 20                | 0                 | 0                  | 6                          | 0                        | 6                             |
| Roanoke.....                 | 58,208                             | 1                              | 5                           | 5                 | 0                 | 0                  | 0                          | 0                        | 2                             |
| West Virginia:               |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Charleston.....              | 49,019                             | 4                              | 4                           | 1                 | 0                 | 0                  | 1                          | 0                        | 1                             |
| Huntington.....              | 63,485                             | 0                              | 3                           | 8                 | 0                 | -----              | 1                          | 0                        | -----                         |
| Wheeling.....                | 56,208                             | 22                             | 4                           | 3                 | 1                 | 0                  | 1                          | 0                        | 0                             |
| North Carolina:              |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Raleigh.....                 | 30,371                             | 0                              | 3                           | 2                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| Wilmington.....              | 37,061                             | 3                              | 0                           | 4                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| Winston-Salem.....           | 69,031                             | 2                              | 2                           | 15                | 0                 | 0                  | 1                          | 2                        | 5                             |
| South Carolina:              |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Charleston.....              | 73,125                             | 0                              | 3                           | 1                 | 14                | 0                  | 0                          | 0                        | 3                             |
| Columbia.....                | 41,225                             | 0                              | 1                           | 4                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| Greenville.....              | 27,311                             | 0                              | 2                           | 3                 | 0                 | 0                  | 0                          | 0                        | 1                             |
| Georgia:                     |                                    |                                |                             |                   |                   |                    |                            |                          |                               |
| Atlanta.....                 | ( <sup>1</sup> )                   | 0                              | 9                           | 39                | 14                | 2                  | 1                          | 0                        | 13                            |
| Brunswick.....               | 16,809                             | 0                              | 0                           | 0                 | 0                 | 0                  | 0                          | 0                        | 0                             |
| Savannah.....                | 93,134                             | 3                              | 4                           | 2                 | 1                 | 0                  | 0                          | 1                        | 1                             |

<sup>1</sup> No estimate made.

## City reports for week ended November 20, 1926—Continued

| Division, State, and city | Population July 1, 1925, estimated | Chicken pox, cases reported | Diphtheria                  |                | Influenza      |                 | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|---------------------------|------------------------------------|-----------------------------|-----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
|                           |                                    |                             | Cases, estimated expectancy | Cases reported | Cases reported | Deaths reported |                         |                       |                            |
| SOUTH ATLANTIC—CON.       |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Florida:                  |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Miami.....                | 69,754                             | 0                           | -----                       | 2              | 0              | 0               | 1                       | 0                     | 0                          |
| St. Petersburg.....       | 26,847                             | -----                       | 1                           | -----          | 0              | 0               | -----                   | -----                 | 1                          |
| Tampa.....                | 94,743                             | 0                           | 1                           | 6              | 0              | 0               | 8                       | 0                     | 4                          |
| EAST SOUTH CENTRAL        |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Kentucky:                 |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Covington.....            | 58,309                             | 1                           | 3                           | 9              | 0              | 0               | 0                       | 0                     | 1                          |
| Louisville.....           | 305,935                            | 7                           | 13                          | 12             | 0              | 1               | 1                       | 0                     | 8                          |
| Tennessee:                |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Memphis.....              | 174,533                            | 5                           | 13                          | 13             | 0              | 2               | 0                       | 0                     | 7                          |
| Nashville.....            | 136,229                            | 2                           | 5                           | 11             | 0              | 1               | 0                       | 0                     | 8                          |
| Alabama:                  |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Birmingham.....           | 205,670                            | 1                           | 7                           | 17             | 16             | 2               | 5                       | 3                     | 7                          |
| Mobile.....               | 65,955                             | 0                           | 2                           | 0              | 0              | 0               | 0                       | 0                     | 2                          |
| Montgomery.....           | 46,481                             | 0                           | 2                           | 9              | 1              | 0               | 0                       | 0                     | 0                          |
| WEST SOUTH CENTRAL        |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Arkansas:                 |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Fort Smith.....           | 31,643                             | 0                           | 1                           | 0              | 0              | -----           | 0                       | 2                     | -----                      |
| Little Rock.....          | 74,216                             | 0                           | 4                           | 1              | 0              | -----           | 0                       | 1                     | 2                          |
| Louisiana:                |                                    |                             |                             |                |                |                 |                         |                       |                            |
| New Orleans.....          | 414,493                            | 1                           | 12                          | 17             | 7              | 7               | 5                       | 0                     | 14                         |
| Shreveport.....           | 57,857                             | 1                           | 1                           | 4              | 0              | 0               | 0                       | 0                     | 0                          |
| Oklahoma:                 |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Oklahoma City.....        | (1)                                | 1                           | 5                           | 3              | 6              | 1               | 0                       | 0                     | 2                          |
| Texas:                    |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Dallas.....               | 194,450                            | 2                           | 14                          | 35             | 0              | 0               | 1                       | 0                     | 5                          |
| Galveston.....            | 48,375                             | 0                           | 1                           | 1              | 0              | 0               | 0                       | 0                     | 2                          |
| Houston.....              | 164,954                            | 2                           | 5                           | 12             | 0              | 0               | 0                       | 0                     | 9                          |
| San Antonio.....          | 198,069                            | 0                           | 4                           | 6              | 0              | 0               | 0                       | 0                     | 3                          |
| MOUNTAIN                  |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Montana:                  |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Billings.....             | 17,971                             | 4                           | 1                           | 0              | 0              | 0               | 53                      | 0                     | 0                          |
| Great Falls.....          | 29,883                             | 17                          | 2                           | 0              | 0              | 0               | 0                       | 0                     | 0                          |
| Helena.....               | 12,037                             | 0                           | 0                           | 0              | 0              | 0               | 0                       | 0                     | 0                          |
| Missoula.....             | 12,668                             | 1                           | 1                           | 0              | 0              | 0               | 0                       | 5                     | 0                          |
| Idaho:                    |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Boise.....                | 23,042                             | 6                           | 1                           | 0              | 0              | 0               | 0                       | 0                     | 0                          |
| Colorado:                 |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Denver.....               | 280,911                            | 12                          | 14                          | 12             | -----          | 1               | 6                       | 4                     | 8                          |
| Pueblo.....               | 43,787                             | 10                          | 5                           | 0              | 0              | 0               | 0                       | 0                     | 1                          |
| New Mexico:               |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Albuquerque.....          | 21,000                             | 0                           | 1                           | 0              | 0              | 0               | 0                       | 0                     | 0                          |
| Arizona:                  |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Phoenix.....              | 38,669                             | 0                           | 0                           | 1              | 0              | 0               | 0                       | 0                     | 2                          |
| Utah:                     |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Salt Lake City.....       | 130,948                            | 45                          | 4                           | 4              | 0              | 0               | 155                     | 4                     | 3                          |
| Nevada:                   |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Reno.....                 | 12,665                             | 0                           | 0                           | 0              | 0              | 0               | 0                       | 0                     | 0                          |
| PACIFIC                   |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Washington:               |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Seattle.....              | (1)                                | 80                          | 6                           | 4              | 0              | -----           | 1                       | 10                    | -----                      |
| Spokane.....              | 108,897                            | 27                          | 4                           | 1              | 0              | -----           | 78                      | 0                     | -----                      |
| Tacoma.....               | 104,455                            | 16                          | 3                           | 14             | 0              | 0               | 0                       | 0                     | 0                          |
| Oregon:                   |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Portland.....             | 282,383                            | 12                          | 9                           | 8              | 0              | 0               | 3                       | 1                     | 5                          |
| California:               |                                    |                             |                             |                |                |                 |                         |                       |                            |
| Los Angeles.....          | (1)                                | 29                          | 39                          | 80             | 11             | 0               | 3                       | 14                    | 14                         |
| Sacramento.....           | 72,260                             | 2                           | 3                           | 0              | 1              | 1               | 36                      | 12                    | 5                          |
| San Francisco.....        | 557,530                            | 53                          | 17                          | 22             | 1              | 0               | 64                      | 40                    | 2                          |

<sup>1</sup> No estimate made.



## City reports for week ended November 20, 1926—Continued

| Division, State,<br>and city | Scarlet fever                               |                        | Smallpox                                    |                        |                         | Tuber-<br>culosis,<br>deaths re-<br>ported | Typhoid fever                               |                        |                         | Whoop-<br>ing<br>cough,<br>cases re-<br>ported | Deaths,<br>all<br>causes |
|------------------------------|---------------------------------------------|------------------------|---------------------------------------------|------------------------|-------------------------|--------------------------------------------|---------------------------------------------|------------------------|-------------------------|------------------------------------------------|--------------------------|
|                              | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                            | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                                |                          |
| NEW ENGLAND                  |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Maine:                       |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Portland.....                | 2                                           | 1                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 6                                              | 17                       |
| New Hampshire:               |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Concord.....                 | 1                                           | 0                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 0                                              | 4                        |
| Manchester.....              | 2                                           | 3                      | 0                                           | 0                      | 0                       | 2                                          | 0                                           | 0                      | 0                       | 0                                              | 14                       |
| Vermont:                     |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Barre.....                   | 0                                           | 0                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 0                                              | 5                        |
| Burlington.....              | 1                                           | 0                      | 0                                           | 0                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 4                                              | 4                        |
| Massachusetts:               |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Boston.....                  | 39                                          | 71                     | 0                                           | 0                      | 0                       | 16                                         | 2                                           | 1                      | 0                       | 20                                             | 217                      |
| Fall River.....              | 1                                           | 4                      | 0                                           | 0                      | 0                       | 1                                          | 2                                           | 0                      | 0                       | 0                                              | 32                       |
| Springfield.....             | 7                                           | 2                      | 0                                           | 0                      | 0                       | 2                                          | 0                                           | 0                      | 0                       | 2                                              | 37                       |
| Worcester.....               | 10                                          | 16                     | 0                                           | 0                      | 0                       | 1                                          | 0                                           | 1                      | 0                       | 6                                              | 37                       |
| Rhode Island:                |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Pawtucket.....               | 0                                           | 0                      | 0                                           | 0                      | 0                       | 0                                          | 1                                           | 0                      | 0                       | 0                                              | 21                       |
| Providence.....              | 6                                           | 15                     | 0                                           | 0                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 4                                              | 58                       |
| Connecticut:                 |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Bridgeport.....              | 7                                           | 21                     | 0                                           | 0                      | 0                       | 1                                          | 1                                           | 0                      | 0                       | 1                                              | 24                       |
| Hartford.....                | 6                                           | 5                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 1                                              | 24                       |
| New Haven.....               | 6                                           | 5                      | 0                                           | 0                      | 0                       | 0                                          | 1                                           | 1                      | 0                       | 0                                              | 32                       |
| MIDDLE ATLANTIC              |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| New York:                    |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Buffalo.....                 | 18                                          | 21                     | 0                                           | 0                      | 0                       | 6                                          | 1                                           | 2                      | 2                       | 21                                             | 142                      |
| New York.....                | 105                                         | 131                    | 1                                           | 0                      | 0                       | 104                                        | 20                                          | 15                     | 4                       | 64                                             | 1,384                    |
| Rochester.....               | 7                                           | 11                     | 0                                           | 0                      | 0                       | 1                                          | 1                                           | 5                      | 1                       | 8                                              | 59                       |
| Syracuse.....                | 12                                          | 1                      | 0                                           | 0                      | 0                       | 2                                          | 1                                           | 1                      | 0                       | 18                                             | 56                       |
| New Jersey:                  |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Camden.....                  | 3                                           | 2                      | 0                                           | 0                      | 0                       | 3                                          | 1                                           | 4                      | 2                       | 1                                              | 42                       |
| Newark.....                  | 15                                          | 16                     | 0                                           | 0                      | 0                       | 3                                          | 2                                           | 3                      | 0                       | 29                                             | 95                       |
| Trenton.....                 | 2                                           | 1                      | 0                                           | 0                      | 0                       | 4                                          | 0                                           | 0                      | 1                       | 6                                              | 51                       |
| Pennsylvania:                |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Philadelphia.....            | 61                                          | 57                     | 0                                           | 0                      | 0                       | 35                                         | 5                                           | 13                     | 1                       | 28                                             | 530                      |
| Pittsburgh.....              | 37                                          | 17                     | 0                                           | 0                      | 0                       | 7                                          | 1                                           | 0                      | 0                       | 13                                             | 153                      |
| Reading.....                 | 2                                           | 3                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 7                                              | 24                       |
| Scranton.....                | 2                                           | 3                      | 0                                           | 0                      | 0                       | 11                                         | 0                                           | 0                      | 0                       | 8                                              | 50                       |
| EAST NORTH CENTRAL           |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Ohio:                        |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Cincinnati.....              | 13                                          | 13                     | 0                                           | 0                      | 0                       | 7                                          | 1                                           | 0                      | 1                       | 5                                              | 134                      |
| Cleveland.....               | 28                                          | 18                     | 1                                           | 0                      | 0                       | 11                                         | 3                                           | 1                      | 0                       | 28                                             | 186                      |
| Columbus.....                | 9                                           | 14                     | 1                                           | 1                      | 0                       | 3                                          | 1                                           | 0                      | 0                       | 1                                              | 69                       |
| Toledo.....                  | 12                                          | 14                     | 1                                           | 0                      | 0                       | 3                                          | 1                                           | 1                      | 0                       | 27                                             | 60                       |
| Indiana:                     |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Fort Wayne.....              | 2                                           | 2                      | 1                                           | 1                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 0                                              | 20                       |
| Indianapolis.....            | 11                                          | 14                     | 3                                           | 3                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 19                                             | 98                       |
| South Bend.....              | 4                                           | 2                      | 1                                           | 0                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 0                                              | 11                       |
| Terre Haute.....             | 3                                           | 6                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 0                                              | 14                       |
| Illinois:                    |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Chicago.....                 | 109                                         | 90                     | 1                                           | 0                      | 0                       | 25                                         | 5                                           | 5                      | 1                       | 63                                             | 646                      |
| Peoria.....                  | 6                                           | 2                      | 0                                           | 0                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 1                                              | 21                       |
| Springfield.....             | 2                                           | 3                      | 1                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 2                                              | 23                       |
| Michigan:                    |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Detroit.....                 | 70                                          | 71                     | 2                                           | 0                      | 0                       | 23                                         | 3                                           | 1                      | 0                       | 41                                             | 259                      |
| Flint.....                   | 9                                           | 18                     | 0                                           | 0                      | 0                       | 0                                          | 1                                           | 0                      | 0                       | 0                                              | 24                       |
| Grand Rapids.....            | 8                                           | 20                     | 0                                           | 0                      | 0                       | 3                                          | 0                                           | 0                      | 0                       | 0                                              | 32                       |
| Wisconsin:                   |                                             |                        |                                             |                        |                         |                                            |                                             |                        |                         |                                                |                          |
| Kenosha.....                 | 1                                           | 5                      | 1                                           | 0                      | 0                       | 1                                          | 0                                           | 0                      | 0                       | 1                                              | 7                        |
| Madison.....                 | 1                                           | 7                      | 0                                           | 0                      | 0                       | 0                                          | 0                                           | 0                      | 0                       | 9                                              | 11                       |
| Milwaukee.....               | 26                                          | 17                     | 2                                           | 0                      | 0                       | 6                                          | 0                                           | 0                      | 0                       | 61                                             | 115                      |
| Racine.....                  | 4                                           | 2                      | 0                                           | 0                      | 0                       | 2                                          | 0                                           | 0                      | 0                       | 5                                              | 11                       |
| Superior.....                | 2                                           | 0                      | 1                                           | 0                      | 0                       | 2                                          | 0                                           | 0                      | 0                       | 0                                              | 17                       |

<sup>1</sup> Pulmonary tuberculosis only.

*City reports for week ended November 20, 1928—Continued*

| Division, State,<br>and city | Scarlet fever                               |                        | Smallpox                                    |                        |                         | Tuber-<br>culosis,<br>deaths<br>re-<br>ported | Typhoid fever                               |                        |                         | Whoop-<br>ing<br>cough,<br>cases<br>re-<br>ported | Deaths,<br>all<br>causes |
|------------------------------|---------------------------------------------|------------------------|---------------------------------------------|------------------------|-------------------------|-----------------------------------------------|---------------------------------------------|------------------------|-------------------------|---------------------------------------------------|--------------------------|
|                              | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                               | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                                   |                          |
| WEST NORTH<br>CENTRAL        |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Minnesota:                   |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Duluth.....                  | 4                                           | 10                     | 0                                           | 0                      | 0                       | 3                                             | 1                                           | 0                      | 0                       | 0                                                 | 29                       |
| Minneapolis.....             | 39                                          | 69                     | 1                                           | 0                      | 0                       | 5                                             | 1                                           | 0                      | 0                       | 7                                                 | 97                       |
| St. Paul.....                | 16                                          | 21                     | 7                                           | 0                      | 0                       | 6                                             | 0                                           | 1                      | 0                       | 7                                                 | 61                       |
| Iowa:                        |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Davenport.....               | 0                                           | 3                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 1                      | 0                       | 0                                                 | 0                        |
| Des Moines.....              | 9                                           | 3                      | 1                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 0                        |
| Sioux City.....              | 3                                           | 5                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 2                                                 | 0                        |
| Waterloo.....                | 3                                           | 2                      | 1                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 14                                                | 0                        |
| Missouri:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Kansas City.....             | 12                                          | 12                     | 0                                           | 0                      | 0                       | 6                                             | 1                                           | 1                      | 0                       | 9                                                 | 103                      |
| St. Joseph.....              | 4                                           | 4                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                                                 | 35                       |
| St. Louis.....               | 35                                          | 36                     | 0                                           | 0                      | 0                       | 8                                             | 3                                           | 1                      | 1                       | 23                                                | 239                      |
| North Dakota:                |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Fargo.....                   | 2                                           | 21                     | 1                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 15                       |
| South Dakota:                |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Aberdeen.....                | 0                                           | 8                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 5                                                 | 0                        |
| Sioux Falls.....             | 2                                           | 3                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 0                        |
| Nebraska:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Lincoln.....                 | 1                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 12                       |
| Omaha.....                   | 4                                           | 15                     | 3                                           | 1                      | 0                       | 2                                             | 0                                           | 0                      | 0                       | 0                                                 | 57                       |
| Kansas:                      |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Topeka.....                  | 3                                           | 3                      | 0                                           | 1                      | 0                       | 0                                             | 1                                           | 0                      | 0                       | 7                                                 | 9                        |
| Wichita.....                 | 3                                           | 4                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 8                                                 | 26                       |
| SOUTH ATLANTIC               |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Delaware:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Wilmington.....              | 3                                           | 13                     | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 0                      | 0                       | 0                                                 | 22                       |
| Maryland:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Baltimore.....               | 17                                          | 12                     | 0                                           | 0                      | 0                       | 16                                            | 4                                           | 1                      | 1                       | 52                                                | 225                      |
| Cumberland.....              | 1                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 0                      | 3                       | 2                                                 | 21                       |
| Frederick.....               | 1                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 5                                                 | 2                        |
| District of<br>Columbia:     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Washington.....              | 16                                          | 5                      | 0                                           | 0                      | 0                       | 14                                            | 3                                           | 2                      | 0                       | 9                                                 | 142                      |
| Virginia:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Lynchburg.....               | 0                                           | 5                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 1                      | 0                       | 1                                                 | 14                       |
| Norfolk.....                 | 3                                           | 3                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 3                      | 0                       | 3                                                 | 0                        |
| Richmond.....                | 8                                           | 10                     | 0                                           | 0                      | 0                       | 8                                             | 1                                           | 0                      | 0                       | 0                                                 | 60                       |
| Roanoke.....                 | 2                                           | 8                      | 1                                           | 0                      | 0                       | 0                                             | 1                                           | 0                      | 0                       | 0                                                 | 20                       |
| West Virginia:               |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Charleston.....              | 1                                           | 2                      | 0                                           | 0                      | 0                       | 3                                             | 0                                           | 0                      | 0                       | 0                                                 | 14                       |
| Huntington.....              | 2                                           | 6                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 0                        |
| Wheeling.....                | 2                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 1                      | 0                       | 3                                                 | 13                       |
| North Carolina:              |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Raleigh.....                 | 2                                           | 3                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 24                                                | 11                       |
| Wilmington.....              | 1                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 1                      | 0                       | 3                                                 | 10                       |
| Winston-Salem.....           | 1                                           | 6                      | 1                                           | 1                      | 0                       | 1                                             | 1                                           | 0                      | 0                       | 7                                                 | 26                       |
| South Carolina:              |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Charleston.....              | 0                                           | 1                      | 0                                           | 0                      | 0                       | 1                                             | 1                                           | 0                      | 0                       | 1                                                 | 19                       |
| Columbia.....                | 1                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 0                        |
| Greenville.....              | 1                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 2                                           | 0                      | 0                       | 0                                                 | 6                        |
| Georgia:                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Atlanta.....                 | 6                                           | 4                      | 0                                           | 0                      | 0                       | 6                                             | 1                                           | 1                      | 0                       | 0                                                 | 67                       |
| Brunswick.....               | 0                                           | 0                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                                                 | 2                        |
| Savannah.....                | 0                                           | 0                      | 0                                           | 0                      | 0                       | 2                                             | 0                                           | 0                      | 0                       | 1                                                 | 31                       |
| Florida:                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Miami.....                   | 0                                           | 3                      | 0                                           | 0                      | 0                       | 2                                             | 0                                           | 2                      | 1                       | 0                                                 | 41                       |
| St. Petersburg.....          | 0                                           | 0                      | 0                                           | 0                      | 0                       | 3                                             | 0                                           | 0                      | 0                       | 0                                                 | 20                       |
| Tampa.....                   | 0                                           | 1                      | 0                                           | 1                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 2                                                 | 41                       |
| EAST SOUTH<br>CENTRAL        |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Kentucky:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Covington.....               | 2                                           | 1                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                                                 | 21                       |
| Louisville.....              | 4                                           | 7                      | 0                                           | 0                      | 0                       | 1                                             | 2                                           | 1                      | 0                       | 7                                                 | 84                       |
| Tennessee:                   |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Memphis.....                 | 5                                           | 17                     | 0                                           | 0                      | 0                       | 5                                             | 1                                           | 2                      | 1                       | 3                                                 | 68                       |
| Nashville.....               | 4                                           | 5                      | 0                                           | 0                      | 0                       | 9                                             | 2                                           | 4                      | 2                       | 2                                                 | 63                       |
| Alabama:                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Birmingham.....              | 4                                           | 14                     | 0                                           | 0                      | 0                       | 4                                             | 2                                           | 0                      | 0                       | 0                                                 | 56                       |
| Mobile.....                  | 0                                           | 0                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                                                 | 23                       |
| Montgomery.....              | 0                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 19                       |

## City reports for week ended November 20, 1926—Continued

| Division, State,<br>and city | Scarlet fever                               |                        | Smallpox                                    |                        |                         | Tuber-<br>culosis,<br>deaths<br>re-<br>ported | Typhoid fever                               |                        |                         | Whoop-<br>ing<br>cough,<br>cases<br>re-<br>ported | Deaths,<br>all<br>causes |
|------------------------------|---------------------------------------------|------------------------|---------------------------------------------|------------------------|-------------------------|-----------------------------------------------|---------------------------------------------|------------------------|-------------------------|---------------------------------------------------|--------------------------|
|                              | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                               | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported |                                                   |                          |
| WEST SOUTH CENTRAL           |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Arkansas:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Fort Smith.....              | 2                                           | 1                      | 0                                           | 0                      |                         |                                               | 1                                           | 1                      |                         | 1                                                 |                          |
| Little Rock.....             | 2                                           | 2                      | 0                                           | 0                      |                         | 7                                             | 1                                           | 0                      | 1                       | 8                                                 |                          |
| Louisiana:                   |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| New Orleans.....             | 6                                           | 6                      | 0                                           | 0                      | 0                       | 6                                             | 2                                           | 1                      | 0                       | 4                                                 | 149                      |
| Shreveport.....              | 1                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 0                      | 1                       | 0                                                 | 18                       |
| Oklahoma:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Oklahoma City.....           | 3                                           | 4                      | 0                                           | 1                      | 0                       | 1                                             | 1                                           | 0                      | 0                       | 0                                                 | 31                       |
| Texas:                       |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Dallas.....                  | 5                                           | 14                     | 0                                           | 1                      | 0                       | 2                                             | 1                                           | 0                      | 0                       | 0                                                 | 61                       |
| Galveston.....               | 0                                           | 1                      | 0                                           | 0                      | 0                       | 0                                             | 1                                           | 0                      | 0                       | 0                                                 | 14                       |
| Houston.....                 | 1                                           | 0                      | 0                                           | 0                      | 0                       | 4                                             | 0                                           | 0                      | 0                       | 0                                                 | 56                       |
| San Antonio.....             | 1                                           | 2                      | 0                                           | 0                      | 0                       | 7                                             | 0                                           | 1                      | 0                       | 0                                                 | 57                       |
| MOUNTAIN                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Montana:                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Billings.....                | 1                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 3                        |
| Great Falls.....             | 1                                           | 1                      | 1                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 6                        |
| Helena.....                  | 0                                           | 0                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                                                 | 7                        |
| Missoula.....                | 0                                           | 11                     | 1                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 4                        |
| Idaho:                       |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Boise.....                   | 1                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 7                        |
| Colorado:                    |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Denver.....                  | 9                                           | 56                     | 4                                           | 0                      | 0                       | 18                                            | 1                                           | 1                      | 0                       | 2                                                 | 82                       |
| Pueblo.....                  | 1                                           | 0                      | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 1                      | 0                       | 0                                                 | 12                       |
| New Mexico:                  |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Albuquerque.....             | 0                                           | 0                      | 0                                           | 0                      | 0                       | 10                                            | 1                                           | 0                      | 0                       | 0                                                 | 19                       |
| Arizona:                     |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Phoenix.....                 | 3                                           | 3                      | 0                                           | 0                      | 0                       | 8                                             | 0                                           | 0                      | 0                       | 0                                                 | 18                       |
| Utah:                        |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Salt Lake City.....          | 3                                           | 2                      | 1                                           | 0                      | 0                       | 3                                             | 0                                           | 1                      | 0                       | 1                                                 | 36                       |
| Nevada:                      |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Reno.....                    | 0                                           | 0                      | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 0                                                 | 7                        |
| PACIFIC                      |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Washington:                  |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Seattle.....                 | 8                                           | 12                     | 3                                           | 0                      |                         |                                               | 1                                           | 3                      |                         | 10                                                |                          |
| Spokane.....                 | 6                                           | 22                     | 2                                           | 0                      |                         | 0                                             | 0                                           | 1                      |                         | 6                                                 |                          |
| Tacoma.....                  | 2                                           | 1                      | 2                                           | 14                     | 0                       | 0                                             | 0                                           | 0                      | 0                       | 3                                                 |                          |
| Oregon:                      |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Portland.....                | 7                                           | 31                     | 3                                           | 3                      | 0                       | 3                                             | 1                                           | 0                      | 0                       | 0                                                 | 61                       |
| California:                  |                                             |                        |                                             |                        |                         |                                               |                                             |                        |                         |                                                   |                          |
| Los Angeles.....             | 20                                          | 63                     | 2                                           | 4                      | 0                       | 21                                            | 2                                           | 0                      | 0                       | 2                                                 | 259                      |
| Sacramento.....              | 2                                           | 9                      | 1                                           | 0                      | 0                       | 1                                             | 0                                           | 3                      | 0                       | 1                                                 | 22                       |
| San Francisco.....           | 9                                           | 18                     | 0                                           | 0                      | 0                       | 8                                             | 1                                           | 4                      | 0                       | 18                                                |                          |

| Division, State, and city | Cerebrospinal<br>meningitis |        | Lethargic<br>encephalitis |        | Pellagra |        | Poliomyelitis (infan-<br>tile paralysis)    |       |        |
|---------------------------|-----------------------------|--------|---------------------------|--------|----------|--------|---------------------------------------------|-------|--------|
|                           | Cases                       | Deaths | Cases                     | Deaths | Cases    | Deaths | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases | Deaths |
| <b>NEW ENGLAND</b>        |                             |        |                           |        |          |        |                                             |       |        |
| Massachusetts:            |                             |        |                           |        |          |        |                                             |       |        |
| Boston.....               | 0                           | 0      | 0                         | 0      | 1        | 0      | 1                                           | 0     | 0      |
| Worcester.....            | 0                           | 0      | 1                         | 0      | 0        | 0      | 0                                           | 0     | 0      |
| Connecticut:              |                             |        |                           |        |          |        |                                             |       |        |
| Hartford.....             | 1                           | 0      | 0                         | 0      | 0        | 0      | 0                                           | 0     | 0      |
| <b>MIDDLE ATLANTIC</b>    |                             |        |                           |        |          |        |                                             |       |        |
| New York:                 |                             |        |                           |        |          |        |                                             |       |        |
| New York.....             | 2                           | 2      | 6                         | 2      | 0        | 0      | 5                                           | 3     | 0      |
| New Jersey:               |                             |        |                           |        |          |        |                                             |       |        |
| Newark.....               | 0                           | 0      | 1                         | 0      | 0        | 0      | 1                                           | 1     | 1      |
| Pennsylvania:             |                             |        |                           |        |          |        |                                             |       |        |
| Philadelphia.....         | 1                           | 0      | 2                         | 1      | 0        | 0      | 1                                           | 1     | 0      |

## City reports for week ended November 20, 1926—Continued

| Division, State, and city | Cerebrospinal meningitis |        | Lethargic encephalitis |        | Pellagra |        | Poliomyelitis (infantile paralysis) |       |        |
|---------------------------|--------------------------|--------|------------------------|--------|----------|--------|-------------------------------------|-------|--------|
|                           | Cases                    | Deaths | Cases                  | Deaths | Cases    | Deaths | Cases, estimated expectancy         | Cases | Deaths |
| <b>EAST NORTH CENTRAL</b> |                          |        |                        |        |          |        |                                     |       |        |
| Ohio:                     |                          |        |                        |        |          |        |                                     |       |        |
| Cleveland.....            | 1                        | 0      | 0                      | 0      | 0        | 0      | 0                                   | 1     | 0      |
| Indiana:                  |                          |        |                        |        |          |        |                                     |       |        |
| Indianapolis.....         | 1                        | 0      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| Illinois:                 |                          |        |                        |        |          |        |                                     |       |        |
| Chicago.....              | 2                        | 1      | 0                      | 0      | 0        | 0      | 1                                   | 0     | 0      |
| Wisconsin:                |                          |        |                        |        |          |        |                                     |       |        |
| Milwaukee.....            | 4                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| <b>WEST NORTH CENTRAL</b> |                          |        |                        |        |          |        |                                     |       |        |
| Minnesota:                |                          |        |                        |        |          |        |                                     |       |        |
| Minneapolis.....          | 0                        | 0      | 0                      | 2      | 0        | 0      | 0                                   | 0     | 0      |
| St. Paul.....             | 0                        | 0      | 1                      | 0      | 0        | 0      | 1                                   | 0     | 0      |
| Nebraska:                 |                          |        |                        |        |          |        |                                     |       |        |
| Lincoln.....              | 0                        | 0      | 0                      | 0      | 0        | 0      | 0                                   | 1     | 0      |
| <b>SOUTH ATLANTIC</b>     |                          |        |                        |        |          |        |                                     |       |        |
| Maryland:                 |                          |        |                        |        |          |        |                                     |       |        |
| Baltimore.....            | 1                        | 0      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| District of Columbia:     |                          |        |                        |        |          |        |                                     |       |        |
| Washington.....           | 0                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| North Carolina:           |                          |        |                        |        |          |        |                                     |       |        |
| Raleigh.....              | 0                        | 0      | 0                      | 0      | 0        | 1      | 0                                   | 0     | 0      |
| Georgia:                  |                          |        |                        |        |          |        |                                     |       |        |
| Savannah.....             | 0                        | 0      | 0                      | 0      | 1        | 0      | 0                                   | 0     | 0      |
| <b>EAST SOUTH CENTRAL</b> |                          |        |                        |        |          |        |                                     |       |        |
| Kentucky:                 |                          |        |                        |        |          |        |                                     |       |        |
| Louisville.....           | 0                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| Tennessee:                |                          |        |                        |        |          |        |                                     |       |        |
| Nashville.....            | 1                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| Alabama:                  |                          |        |                        |        |          |        |                                     |       |        |
| Birmingham.....           | 0                        | 0      | 1                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| Mobile.....               | 0                        | 0      | 0                      | 0      | 0        | 2      | 0                                   | 0     | 0      |
| <b>WEST SOUTH CENTRAL</b> |                          |        |                        |        |          |        |                                     |       |        |
| Arkansas:                 |                          |        |                        |        |          |        |                                     |       |        |
| Little Rock.....          | 0                        | 0      | 0                      | 0      | 1        | 4      | 0                                   | 0     | 0      |
| Louisiana:                |                          |        |                        |        |          |        |                                     |       |        |
| New Orleans.....          | 1                        | 0      | 0                      | 0      | 1        | 0      | 0                                   | 0     | 0      |
| Texas:                    |                          |        |                        |        |          |        |                                     |       |        |
| Dallas.....               | 0                        | 0      | 0                      | 0      | 1        | 1      | 0                                   | 0     | 0      |
| Houston.....              | 1                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| <b>MOUNTAIN</b>           |                          |        |                        |        |          |        |                                     |       |        |
| Colorado:                 |                          |        |                        |        |          |        |                                     |       |        |
| Pueblo.....               | 0                        | 1      | 0                      | 0      | 0        | 0      | 0                                   | 0     | 0      |
| <b>PACIFIC</b>            |                          |        |                        |        |          |        |                                     |       |        |
| California:               |                          |        |                        |        |          |        |                                     |       |        |
| Los Angeles.....          | 0                        | 0      | 0                      | 0      | 1        | 1      | 0                                   | 0     | 2      |

The following table gives the rates per 100,000 population for 101 cities for the five-week period ended November 20, 1926, compared with those for a like period ended November 21, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 101 cities reporting cases had an estimated aggregate population of nearly

30,000,000 in 1925 and nearly 30,500,000 in 1926. The 95 cities reporting deaths had more than 29,200,000 estimated population in 1925 and more than 29,730,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

*Summary of weekly reports from cities, October 17 to November 20, 1926—Annual rates per 100,000 population, compared with rates for the corresponding period of 1925*<sup>1</sup>

## DIPHTHERIA CASE RATES

|                         | Week ended—         |                     |                     |                     |                    |                    |                     |                     |                     |                     |
|-------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
|                         | Oct.<br>24,<br>1925 | Oct.<br>23,<br>1926 | Oct.<br>31,<br>1925 | Oct.<br>30,<br>1926 | Nov.<br>7,<br>1925 | Nov.<br>6,<br>1926 | Nov.<br>14,<br>1925 | Nov.<br>13,<br>1926 | Nov.<br>21,<br>1925 | Nov.<br>20,<br>1926 |
| 101 cities.....         | <sup>2</sup> 163    | 203                 | <sup>3</sup> 176    | 213                 | 161                | 224                | 169                 | <sup>4</sup> 228    | 176                 | 230                 |
| New England.....        | <sup>5</sup> 94     | 85                  | 132                 | 106                 | 93                 | 118                | 122                 | 135                 | 139                 | 139                 |
| Middle Atlantic.....    | 128                 | 122                 | 148                 | 138                 | 125                | 142                | 140                 | 162                 | 143                 | 159                 |
| East North Central..... | 180                 | 261                 | 186                 | 241                 | 178                | 276                | 185                 | 264                 | 180                 | 292                 |
| West North Central..... | 256                 | 240                 | 278                 | 264                 | 264                | 252                | 235                 | <sup>4</sup> 216    | 221                 | 213                 |
| South Atlantic.....     | <sup>6</sup> 252    | 302                 | 213                 | 357                 | 198                | 319                | 236                 | 391                 | 271                 | 278                 |
| East South Central..... | 100                 | 400                 | 89                  | 384                 | 126                | 425                | 63                  | 265                 | 121                 | 368                 |
| West South Central..... | 101                 | 280                 | 251                 | 331                 | 189                | 254                | 203                 | 379                 | 167                 | 327                 |
| Mountain.....           | 361                 | 255                 | <sup>3</sup> 170    | 155                 | 277                | 218                | 240                 | 182                 | 305                 | 146                 |
| Pacific.....            | 135                 | 191                 | 149                 | 205                 | 141                | 288                | 138                 | 232                 | 177                 | 326                 |

## MEASLES CASE RATES

|                         | <sup>2</sup> 91  | 49  | <sup>3</sup> 102 | 64  | 149 | 81  | 169 | <sup>4</sup> 106 | 222   | 135   |
|-------------------------|------------------|-----|------------------|-----|-----|-----|-----|------------------|-------|-------|
| 101 cities.....         |                  |     |                  |     |     |     |     |                  |       |       |
| New England.....        | <sup>5</sup> 578 | 26  | 582              | 24  | 822 | 66  | 903 | 31               | 1,090 | 47    |
| Middle Atlantic.....    | 87               | 12  | 110              | 13  | 159 | 16  | 170 | 44               | 255   | 28    |
| East North Central..... | 45               | 47  | 54               | 77  | 70  | 80  | 84  | 100              | 97    | 121   |
| West North Central..... | 10               | 42  | 12               | 85  | 14  | 151 | 10  | <sup>4</sup> 152 | 14    | 197   |
| South Atlantic.....     | <sup>6</sup> 37  | 26  | 56               | 9   | 144 | 21  | 217 | 24               | 271   | 54    |
| East South Central..... | 37               | 21  | 16               | 21  | 16  | 26  | 16  | 10               | 47    | 31    |
| West South Central..... | 13               | 4   | 4                | 0   | 9   | 9   | 9   | 26               | 9     | 26    |
| Mountain.....           | 28               | 337 | <sup>3</sup> 19  | 391 | 37  | 792 | 46  | 1,529            | 28    | 1,948 |
| Pacific.....            | 11               | 278 | 14               | 342 | 17  | 315 | 19  | 280              | 30    | 491   |

## SCARLET FEVER CASE RATES

|                         | <sup>2</sup> 127 | 152 | <sup>3</sup> 155 | 169 | 163 | 189 | 182 | <sup>4</sup> 208 | 178 | 213 |
|-------------------------|------------------|-----|------------------|-----|-----|-----|-----|------------------|-----|-----|
| 101 cities.....         |                  |     |                  |     |     |     |     |                  |     |     |
| New England.....        | <sup>5</sup> 125 | 194 | 194              | 246 | 261 | 265 | 237 | 352              | 201 | 331 |
| Middle Atlantic.....    | 96               | 51  | 106              | 92  | 110 | 94  | 142 | 125              | 143 | 129 |
| East North Central..... | 135              | 155 | 185              | 157 | 159 | 189 | 180 | 185              | 187 | 202 |
| West North Central..... | 284              | 373 | 292              | 354 | 358 | 415 | 354 | <sup>4</sup> 354 | 401 | 407 |
| South Atlantic.....     | <sup>6</sup> 126 | 163 | 180              | 133 | 173 | 199 | 161 | 178              | 115 | 145 |
| East South Central..... | 121              | 223 | 74               | 332 | 100 | 249 | 168 | 296              | 126 | 228 |
| West South Central..... | 40               | 95  | 40               | 112 | 97  | 112 | 114 | 142              | 88  | 116 |
| Mountain.....           | 111              | 446 | <sup>3</sup> 189 | 364 | 166 | 583 | 176 | 701              | 157 | 637 |
| Pacific.....            | 127              | 235 | 141              | 237 | 155 | 205 | 196 | 260              | 188 | 337 |

## SMALLPOX CASE RATES

|                         | <sup>2</sup> 7 | 3  | <sup>3</sup> 10 | 3  | 9  | 3  | 8  | <sup>4</sup> 5  | 16 | 5  |
|-------------------------|----------------|----|-----------------|----|----|----|----|-----------------|----|----|
| 101 cities.....         |                |    |                 |    |    |    |    |                 |    |    |
| New England.....        | <sup>5</sup> 7 | 0  | 0               | 0  | 0  | 0  | 0  | 0               | 0  | 0  |
| Middle Atlantic.....    | 0              | 0  | 0               | 0  | 0  | 0  | 0  | 0               | 0  | 0  |
| East North Central..... | 4              | 3  | 16              | 1  | 12 | 6  | 13 | 10              | 31 | 3  |
| West North Central..... | 4              | 0  | 25              | 2  | 10 | 2  | 4  | <sup>4</sup> 10 | 16 | 4  |
| South Atlantic.....     | <sup>6</sup> 0 | 9  | 6               | 6  | 12 | 0  | 6  | 2               | 19 | 4  |
| East South Central..... | 5              | 10 | 5               | 5  | 26 | 10 | 32 | 10              | 11 | 0  |
| West South Central..... | 0              | 0  | 0               | 4  | 0  | 9  | 0  | 30              | 0  | 4  |
| Mountain.....           | 9              | 0  | <sup>3</sup> 9  | 9  | 18 | 0  | 18 | 9               | 18 | 0  |
| Pacific.....            | 75             | 16 | 44              | 22 | 47 | 3  | 41 | 5               | 75 | 49 |

<sup>1</sup> The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

<sup>2</sup> Barre, Vt., and Winston-Salem, N. C., not included.

<sup>3</sup> Helena, Mont., not included.

<sup>4</sup> Sioux City, Iowa, not included.

<sup>5</sup> Barre, Vt., not included.

<sup>6</sup> Winston-Salem, N. C., not included.

*Summary of weekly reports from cities, October 17 to November 20, 1926—Annual rates per 100,000 population, compared with rates for the corresponding period of 1925—Continued.*

## TYPHOID FEVER CASE RATES

|                         | Week ended—         |                     |                     |                     |                    |                    |                     |                     |                     |                     |
|-------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
|                         | Oct.<br>24,<br>1925 | Oct.<br>23,<br>1926 | Oct.<br>31,<br>1925 | Oct.<br>30,<br>1926 | Nov.<br>7,<br>1925 | Nov.<br>6,<br>1926 | Nov.<br>14,<br>1925 | Nov.<br>13,<br>1926 | Nov.<br>21,<br>1925 | Nov.<br>20,<br>1926 |
| 101 cities.....         | <sup>2</sup> 32     | 26                  | <sup>3</sup> 25     | 27                  | 27                 | 24                 | 11                  | <sup>4</sup> 21     | 17                  | 16                  |
| New England.....        | <sup>5</sup> 14     | 19                  | 17                  | 12                  | 22                 | 17                 | 2                   | 9                   | 31                  | 7                   |
| Middle Atlantic.....    | 25                  | 20                  | 21                  | 14                  | 12                 | 12                 | 8                   | 21                  | 20                  | 21                  |
| East North Central..... | 9                   | 13                  | 15                  | 17                  | 18                 | 13                 | 9                   | 10                  | 3                   | 5                   |
| West North Central..... | 33                  | 22                  | 18                  | 24                  | 31                 | 26                 | 16                  | <sup>4</sup> 17     | 14                  | 6                   |
| South Atlantic.....     | <sup>6</sup> 73     | 77                  | 25                  | 75                  | 60                 | 45                 | 10                  | 36                  | 29                  | 23                  |
| East South Central..... | 147                 | 99                  | 100                 | 140                 | 168                | 104                | 42                  | 52                  | 32                  | 36                  |
| West South Central..... | 79                  | 22                  | 79                  | 39                  | 48                 | 22                 | 57                  | 34                  | 31                  | 13                  |
| Mountain.....           | 65                  | 27                  | <sup>8</sup> 85     | 46                  | 37                 | 91                 | 9                   | 27                  | 18                  | 27                  |
| Pacific.....            | 30                  | 13                  | 19                  | 19                  | 8                  | 46                 | 3                   | 30                  | 6                   | 30                  |

## INFLUENZA DEATH RATES

| 95 cities.....          | <sup>2</sup> 8 | 7  | <sup>3</sup> 10 | 11 | 13 | 11 | 11 | 14 | 8  | 10 |
|-------------------------|----------------|----|-----------------|----|----|----|----|----|----|----|
| New England.....        | <sup>5</sup> 2 | 7  | 12              | 7  | 5  | 12 | 7  | 2  | 2  | 2  |
| Middle Atlantic.....    | 8              | 8  | 10              | 8  | 14 | 9  | 14 | 10 | 6  | 10 |
| East North Central..... | 9              | 5  | 7               | 14 | 11 | 6  | 10 | 10 | 6  | 10 |
| West North Central..... | 6              | 2  | 11              | 2  | 6  | 6  | 13 | 13 | 2  | 6  |
| South Atlantic.....     | <sup>6</sup> 2 | 8  | 6               | 21 | 17 | 15 | 2  | 17 | 13 | 8  |
| East South Central..... | 5              | 10 | 26              | 10 | 37 | 21 | 26 | 26 | 42 | 31 |
| West South Central..... | 19             | 14 | 34              | 24 | 15 | 43 | 29 | 71 | 10 | 33 |
| Mountain.....           | 37             | 27 | <sup>9</sup> 9  | 9  | 9  | 18 | 0  | 27 | 18 | 9  |
| Pacific.....            | 4              | 0  | 4               | 7  | 15 | 7  | 4  | 14 | 18 | 4  |

## PNEUMONIA DEATH RATES

| 95 cities.....          | <sup>2</sup> 88  | 85  | <sup>3</sup> 117 | 96  | 133 | 101 | 132 | 106 | 146 | 123 |
|-------------------------|------------------|-----|------------------|-----|-----|-----|-----|-----|-----|-----|
| New England.....        | <sup>5</sup> 87  | 83  | 108              | 99  | 134 | 99  | 120 | 90  | 139 | 104 |
| Middle Atlantic.....    | 89               | 104 | 136              | 101 | 143 | 113 | 143 | 114 | 160 | 135 |
| East North Central..... | 79               | 60  | 114              | 86  | 110 | 84  | 131 | 85  | 139 | 106 |
| West North Central..... | <sup>6</sup> 0   | 49  | 97               | 63  | 86  | 84  | 81  | 76  | 101 | 120 |
| South Atlantic.....     | <sup>6</sup> 116 | 113 | 129              | 107 | 194 | 120 | 152 | 139 | 146 | 143 |
| East South Central..... | 121              | 99  | 105              | 135 | 152 | 99  | 163 | 166 | 221 | 171 |
| West South Central..... | 111              | 57  | 116              | 80  | 150 | 118 | 102 | 113 | 155 | 156 |
| Mountain.....           | 111              | 127 | <sup>7</sup> 76  | 182 | 102 | 164 | 176 | 155 | 222 | 109 |
| Pacific.....            | 76               | 99  | 47               | 89  | 91  | 50  | 109 | 99  | 87  | 75  |

<sup>2</sup> Barre, Vt., and Winston-Salem, N. C., not included.

<sup>3</sup> Helena, Mont., not included.

<sup>4</sup> Sioux City, Iowa, not included.

<sup>5</sup> Barre, Vt., not included.

<sup>6</sup> Winston-Salem, N. C., not included.

*Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively*

| Group of cities         | Number of cities reporting cases | Number of cities reporting deaths | Aggregate population of cities reporting cases |            | Aggregate population of cities reporting deaths |            |
|-------------------------|----------------------------------|-----------------------------------|------------------------------------------------|------------|-------------------------------------------------|------------|
|                         |                                  |                                   | 1925                                           | 1926       | 1925                                            | 1926       |
| Total.....              | 101                              | 95                                | 29,900,053                                     | 30,427,598 | 29,221,531                                      | 29,733,613 |
| New England.....        | 12                               | 12                                | 2,176,124                                      | 2,206,124  | 2,176,124                                       | 2,206,124  |
| Middle Atlantic.....    | 10                               | 10                                | 10,346,970                                     | 10,476,970 | 10,346,970                                      | 10,476,970 |
| East North Central..... | 16                               | 16                                | 7,491,656                                      | 7,655,436  | 7,491,656                                       | 7,655,436  |
| West North Central..... | 12                               | 10                                | 2,550,024                                      | 2,589,131  | 2,431,253                                       | 2,468,448  |
| South Atlantic.....     | 21                               | 21                                | 2,716,070                                      | 2,776,070  | 2,716,070                                       | 2,776,070  |
| East South Central..... | 7                                | 7                                 | 993,103                                        | 1,004,953  | 993,103                                         | 1,004,953  |
| West South Central..... | 8                                | 6                                 | 1,184,057                                      | 1,212,057  | 1,078,198                                       | 1,105,685  |
| Mountain.....           | 9                                | 9                                 | 563,912                                        | 572,773    | 563,912                                         | 572,773    |
| Pacific.....            | 6                                | 4                                 | 1,888,142                                      | 1,934,084  | 1,434,245                                       | 1,466,144  |

# FOREIGN AND INSULAR

## THE FAR EAST

*Report for week ended November 13, 1926.*—The following report for the week ended November 13, 1926, was transmitted by the Eastern Bureau of the Secretariat of the Health Section of the League of Nations, located at Singapore, to the Headquarters at Geneva:

| Maritime towns       | Plague |        | Cholera |        | Small-pox |        | Maritime towns        | Plague |        | Cholera |        | Small-pox |        |
|----------------------|--------|--------|---------|--------|-----------|--------|-----------------------|--------|--------|---------|--------|-----------|--------|
|                      | Cases  | Deaths | Cases   | Deaths | Cases     | Deaths |                       | Cases  | Deaths | Cases   | Deaths | Cases     | Deaths |
| British India:       |        |        |         |        |           |        | Siam: Bangkok         | 0      | 0      | 2       | 1      | 2         | 1      |
| Calcutta             | 0      |        | 19      | 2      | 2         |        | French Indo-China:    |        |        |         |        |           |        |
| Bombay               | 0      |        | 0       | 4      | 2         |        | Salon and Choion      | 0      | 0      | 1       | 1      | 0         | 0      |
| Madras               | 0      |        | 0       | 3      | 0         |        | Turane                | 0      | 0      | 10      | 6      | 0         | 0      |
| Straits Settlements: |        |        |         |        |           |        | Haiphong              | 0      | 0      | 22      | 8      | 0         | 0      |
| Singapore            | 0      | 0      | 3       | 3      | 6         | 1      | Korea: Fusan          | 0      | 0      | 0       | 0      | 2         |        |
| Dutch East Indies:   |        |        |         |        |           |        | Mauritius: Port Louis | 2      | 0      | 0       | 0      | 0         |        |
| Cheribon             | 0      | 0      | 0       | 0      | 0         | 0      |                       |        |        |         |        |           |        |
| Surabaya             | 0      | 0      | 0       | 0      | 1         | 0      |                       |        |        |         |        |           |        |

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

### ASIA

*Arabia.*—Aden, Jeddah, Kamaran, Perim.  
*Iraq.*—Basrah.  
*Persia.*—Mohammerah, Bender-Abbas, Bushire.  
*British India.*—Rangoon, Karachi, Chittagong, Cochin, Vizagapatam, Negapatam, Tuticorin.  
*Portuguese Indies.*—Nova Goa.  
*Ceylon.*—Colombo.  
*Federated Malay States.*—Port Swettenham.  
*Straits Settlements.*—Penang.  
*Dutch East Indies.*—Samarang, Batavia, Sabang, Makassar, Banjarmasin, Palembang, Pontianak, Belawan-Deli, Padang, Samarinda, Balikpapan.  
*Sarawak.*—Kuching.  
*British North Borneo.*—Sandakan, Jesselton, Kudat, Tawao.  
*Portuguese Timor.*—Dilly.  
*China.*—Amoy, Shanghai (International Settlement).  
*Hongkong.*  
*Macao.*  
*Formosa.*—Keelung.  
*Japan.*—Yokohama, Osaka, Nagasaki, Kobe, Niigata, Tsuruga, Hakodate, Shimonoseki, Moji.  
*Korea.*—Chemulpo.  
*Manchuria.*—Mukden, Changchun, Harbin, Antung, Yingkow.  
*Kwantung.*—Port Arthur, Dairen.  
*U. S. S. R.*—Vladivostok.

### AUSTRALASIA AND OCEANIA

*Australia.*—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island.  
*New Guinea.*—Port Moresby.  
*New Britain Mandated Territory.*—Rabaul and Kokopo.  
*New Zealand.*—Auckland, Wellington, Christchurch, Invercargill, Dunedin.  
*New Caledonia.*—Noumea.  
*Fiji.*—Suva.  
*Hawaii.*—Honolulu.  
*Society Islands.*—Papeete

### AFRICA

*Egypt.*—Port Said, Suez, Alexandria.  
*Anglo-Egyptian Sudan.*—Port Sudan, Suakin.  
*Eritrea.*—Massaua.  
*French Somaliland.*—Jibuti.  
*British Somaliland.*—Berbera.  
*Italian Somaliland.*—Mogadiscio.  
*Kenya.*—Mombasa.  
*Zanzibar.*—Zanzibar.  
*Tanganyika.*—Dar-es-Salaam.  
*Seychelles.*—Victoria.  
*Madagascar.*—Majunga, Tamatave.  
*Portuguese East Africa.*—Mozambique, Beira, Lourenço Marques.  
*Union of South Africa.*—East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from—

*Dutch East Indies.*—Tarakan, Menado.

*Philippine Islands.*—Manila, Iloilo, Jolo, Cebu, Zamboanga.

*Union of South Africa.*—Durban.

### BRAZIL

*Mortality from certain diseases—Para—September 26–October 30, 1926.*—During the period September 26 to October 30, 1926, 50 deaths from gastroenteritis, 28 from malaria, and 8 from smallpox were reported at Para, Brazil. Population, 185,000.

*Leprosy.*—During the period under report leprosy was continuously reported present at Para.

### CANADA

*Communicable diseases—Week ended November 13, 1926.*—The Canadian Ministry of Health reports cases of certain communicable diseases in seven Provinces of Canada for the week ended November 13, 1926, as follows:

| Disease             | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | Total |
|---------------------|-------------|---------------|--------|---------|----------|--------------|---------|-------|
| Cerebrospinal fever |             |               |        | 1       |          |              |         | 1     |
| Influenza           | 11          |               |        |         |          | 1            |         | 12    |
| Poliomyelitis       |             |               | 2      | 4       |          |              |         | 6     |
| Smallpox            |             |               |        | 17      | 25       | 4            | 9       | 55    |
| Typhoid fever       | 3           | 4             | 9      | 10      | 1        | 7            |         | 34    |

*Vital statistics—Quebec—September, 1926.*—Births and deaths in the Province of Quebec for the month of September have been reported as follows:

|                                 |           |                                     |     |
|---------------------------------|-----------|-------------------------------------|-----|
| Estimated population            | 2,570,000 | Deaths from—Continued.              |     |
| Births                          | 6,598     | Heart disease                       | 374 |
| Birth rate per 1,000 population | 30.80     | Influenza                           | 38  |
| Deaths (all causes)             | 2,932     | Measles                             | 6   |
| Death rate per 1,000 population | 13.69     | Poliomyelitis (infantile paralysis) | 1   |
| Deaths under 1 year             | 1,171     | Scarlet fever                       | 9   |
| Infant mortality rate           | 177.47    | Syphilis                            | 6   |
| Deaths from—                    |           | Tuberculosis (pulmonary)            | 189 |
| Cancer                          | 133       | Tuberculosis (other forms)          | 44  |
| Cerebrospinal meningitis        | 5         | Typhoid fever                       | 22  |
| Diabetes                        | 21        | Whooping cough                      | 47  |
| Diphtheria                      | 18        |                                     |     |

### CANARY ISLANDS

*Plague—Las Palmas—November 2, 1926.*—Three cases of plague were reported, November 2, 1926, at Las Palmas, Canary Islands. The occurrence was stated to be in a locality removed from the port.

### EGYPT

*Plague—October 22–28, 1926.*—During the week ended October 28, 1926, a case of plague was reported in Egypt occurring in the district of Tanta.



*Summary.*—From January 1 to October 28, 1926, 140 cases of plague were reported in Egypt, as compared with 134 cases reported during the corresponding period of the year 1925.

### ESTONIA

*Communicable diseases—September, 1926.*—Communicable diseases were reported in the Republic of Estonia during the month of September, 1926, as follows:

| Disease                | Cases | Disease            | Cases |
|------------------------|-------|--------------------|-------|
| Diphtheria.....        | 19    | Scarlet fever..... | 246   |
| Leprosy.....           | 1     | Tuberculosis.....  | 123   |
| Measles.....           | 103   | Typhoid fever..... | 93    |
| Paratyphoid fever..... | 25    |                    |       |

Population, census, 1,107,059.

### LATVIA

*Communicable diseases—September, 1926.*—During the month of September, 1926, communicable diseases were reported in the Republic of Latvia as follows:

| Disease                | Cases | Disease             | Cases |
|------------------------|-------|---------------------|-------|
| Diphtheria.....        | 40    | Rabies.....         | 2     |
| Dysentery.....         | 22    | Scarlet fever.....  | 292   |
| Erysipelas.....        | 18    | Tetanus.....        | 2     |
| Measles.....           | 13    | Trachoma.....       | 20    |
| Mumps.....             | 1     | Typhoid fever.....  | 102   |
| Paratyphoid fever..... | 3     | Whooping cough..... | 46    |
| Puerperal fever.....   | 1     |                     |       |

Population, 1,850,000.

*Botulism.*—During the same period eight cases of botulism were reported in the Republic of Latvia.

### MALTA

*Communicable diseases—October, 1926.*—During the month of October, 1926, communicable diseases were reported in the island of Malta as follows:

| Disease                     | Cases | Disease                  | Cases |
|-----------------------------|-------|--------------------------|-------|
| Broncho-pneumonia.....      | 6     | Pneumonia.....           | 5     |
| Diphtheria.....             | 6     | Puerperal infection..... | 2     |
| Erysipelas.....             | 2     | Scarlet fever.....       | 1     |
| Influenza.....              | 3     | Trachoma.....            | 143   |
| Lethargic encephalitis..... | 1     | Tuberculosis.....        | 17    |
| Malaria.....                | 1     | Typhoid fever.....       | 72    |
| Malta fever.....            | 58    | Whooping cough.....      | 21    |
| Measles.....                | 19    |                          |       |

Population, civil, estimated, 225,242.

## MEXICO

*Mortality from gastroenteritis—Progreso—November 14–27, 1926—Contaminated water supply.*—During the two weeks ended November 27, 1926, eight deaths from gastroenteritis were reported at Progreso, Mexico. Population, 9,089. Contamination of cisterns and other water supplies was reported.

## PERU

*Communicable diseases—Lima—August, 1926.*—During the month of August, 1926, communicable diseases were reported in the city of Lima, Peru, as follows:

| Disease              | Cases | Disease                   | Cases |
|----------------------|-------|---------------------------|-------|
| Gastroenteritis..... | 27    | Puerperal septicemia..... | 1     |
| Influenza.....       | 10    | Tuberculosis.....         | 73    |
| Malaria.....         | 11    | Typhoid fever.....        | 3     |
| Plague.....          | 1     |                           |       |

Population, 240,000.

## UNION OF SOUTH AFRICA

*Plague—Cape Province—October 10–16, 1926.*—During the week ended October 16, 1926, two fatal cases of plague were reported in the Cape Province, Union of South Africa, of which one (native or colored) occurred in Hanover District and one (European) in Kimberley District. Both cases occurred on farms.

*Smallpox.*—Outbreaks of smallpox were reported during the period under report as follows: In the Umgeni area, Durban, 12 cases, of which 11 cases were Hindus and 1 case native; at Prospect Hall, Inanda District, 1 case, native, in a contact with the Durban cases. The cases were removed to Salisbury Island quarantine, Durban Bay.

## YUGOSLAVIA

*Communicable diseases—September, 1926.*—During the month of September, 1926, communicable diseases were reported in Yugoslavia as follows:

| Disease                       | Cases | Deaths | Disease             | Cases | Deaths |
|-------------------------------|-------|--------|---------------------|-------|--------|
| Anthrax.....                  | 89    | 10     | Scarlet fever.....  | 470   | 75     |
| Meningococcus meningitis..... | 3     | 2      | Tetanus.....        | 32    | 18     |
| Diphtheria.....               | 180   | 38     | Typhoid fever.....  | 586   | 52     |
| Dysentery.....                | 264   | 24     | Whooping cough..... | 195   | 12     |
| Measles.....                  | 205   | 3      |                     |       |        |

**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 lists of countries included or the figures for the particular countries for which reports are given.

**Reports Received During Week Ended December 10, 1926<sup>1</sup>****CHOLERA**

| Place         | Date            | Cases | Deaths | Remarks                                                                                                                                                                           |
|---------------|-----------------|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China:        |                 |       |        |                                                                                                                                                                                   |
| Canton.....   | Aug. 25-31..... | 30    | 8      | Cases, foreign; deaths, native and foreign in international concessions.<br>Present.<br>Oct. 10-16, 1926: Cases, 1; deaths, 3. Apr. 1-Oct. 16, 1926: Cases, 7,670; deaths, 5,043. |
| Shanghai..... | Oct. 10-23..... | 3     | 1      |                                                                                                                                                                                   |
| Tsingtao..... | Oct. 10-16..... |       |        |                                                                                                                                                                                   |
| Siam.....     |                 |       |        |                                                                                                                                                                                   |
| Bangkok.....  | Oct. 10-16..... | 1     |        |                                                                                                                                                                                   |

**PLAGUE**

|                         |                 |     |    |                                                                                                            |
|-------------------------|-----------------|-----|----|------------------------------------------------------------------------------------------------------------|
| Canary Islands:         |                 |     |    |                                                                                                            |
| Las Palmas.....         | Nov. 2.....     | 3   |    | Stated to be in locality removed from port.                                                                |
| Egypt.....              |                 |     |    | Oct. 22-28, 1926: Cases, 1. Jan. 1-Oct. 28, 1926: Cases, 140; corresponding period, year 1925: Cases, 134. |
| India:                  |                 |     |    |                                                                                                            |
| Madras Presidency.....  | Oct. 3-9.....   | 114 | 46 | Apr. 1-Oct. 16, 1926: Cases, 15; deaths, 10.                                                               |
| Rangoon.....            | Oct. 10-16..... | 3   | 1  |                                                                                                            |
| Siam.....               |                 |     |    |                                                                                                            |
| Union of South Africa:  |                 |     |    |                                                                                                            |
| Cape Province.....      |                 |     |    |                                                                                                            |
| Hanover District.....   | Oct. 10-16..... | 1   | 1  | Native. On farm.                                                                                           |
| Kimberley District..... | do.....         | 1   | 1  | European. On farm.                                                                                         |

**SMALLPOX**

|                        |                       |     |   |                                           |
|------------------------|-----------------------|-----|---|-------------------------------------------|
| Brazil:                |                       |     |   |                                           |
| Bahia.....             | Oct. 4-10.....        | 2   | 2 | Developed in infectious disease hospital. |
| Para.....              | Sept. 26-Oct. 30..... | 9   | 8 |                                           |
| Pernambuco.....        | Sept. 26-Oct. 2.....  | 25  | 3 |                                           |
| Canada:                |                       |     |   |                                           |
| Alberta.....           | Nov. 7-13.....        | 9   |   |                                           |
| Calgary.....           | Nov. 16-22.....       | 3   |   |                                           |
| Manitoba.....          | Nov. 7-13.....        | 25  |   |                                           |
| Ontario.....           | do.....               | 17  |   |                                           |
| Kingston.....          | Oct. 31-Nov. 6.....   | 1   |   |                                           |
| Toronto.....           | Nov. 14-20.....       | 7   |   |                                           |
| Saskatchewan.....      | Nov. 7-13.....        | 4   |   |                                           |
| Ceylon:                |                       |     |   |                                           |
| Colombo.....           | Oct. 10-16.....       | 1   |   |                                           |
| China:                 |                       |     |   |                                           |
| Chungking.....         | do.....               |     |   | Present.                                  |
| Egypt:                 |                       |     |   |                                           |
| Alexandria.....        | Oct. 15-21.....       | 1   | 1 |                                           |
| France:                |                       |     |   |                                           |
| Paris.....             | Oct. 21-31.....       | 11  | 6 |                                           |
| Great Britain:         |                       |     |   |                                           |
| England and Wales..... | Oct. 24-Nov. 6.....   | 433 |   |                                           |
| Newcastle-on-Tyne..... | Nov. 7-13.....        | 1   |   |                                           |
| Sheffield.....         | Oct. 31-Nov. 13.....  | 11  |   |                                           |
| India:                 |                       |     |   |                                           |
| Karachi.....           | Oct. 24-30.....       | 1   |   |                                           |
| Madras.....            | do.....               | 1   |   |                                           |
| Mexico:                |                       |     |   |                                           |
| Torreon.....           | Nov. 7-13.....        |     | 2 |                                           |
| Persia:                |                       |     |   |                                           |
| Teheran.....           | July 24-Aug. 23.....  |     | 4 |                                           |
| Portugal:              |                       |     |   |                                           |
| Oporto.....            | Oct. 31-Nov. 6.....   | 1   | 1 |                                           |

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

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received During Week Ended December 10, 1926—Continued****SMALLPOX—Continued**

| Place                                           | Date            | Cases | Deaths | Remarks                                    |
|-------------------------------------------------|-----------------|-------|--------|--------------------------------------------|
| Union of South Africa:<br>Natal—<br>Durban..... | Oct. 10-16..... | 12    | -----  | In the Uingeni area, Hindus 11; native, 1. |

**TYPHUS FEVER**

|                                               |                      |       |       |                                               |
|-----------------------------------------------|----------------------|-------|-------|-----------------------------------------------|
| Chile:                                        |                      |       |       |                                               |
| Concepcion.....                               | October, 1926.....   | ----- | ----- | Stated to be present in gaol.                 |
| Iquique.....                                  | Oct. 16.....         | 1     | ----- |                                               |
| Valparaiso.....                               | Oct. 31-Nov. 6.....  | 4     | ----- |                                               |
| China:                                        |                      |       |       |                                               |
| Manchuria—<br>Harbin.....                     | Oct. 14-20.....      | 1     | ----- |                                               |
| Iraq:                                         |                      |       |       |                                               |
| Bagdad.....                                   | Oct. 10-16.....      | 1     | ----- |                                               |
| Mexico:                                       |                      |       |       |                                               |
| Mexico City.....                              | Oct. 31-Nov. 6.....  | 8     | ----- | Including municipalities in Federal district. |
| Palestine:                                    |                      |       |       |                                               |
| Birtuvia.....                                 | Oct. 31-Nov. 6.....  | 1     | ----- |                                               |
| Jaffa.....                                    | do.....              | 1     | ----- |                                               |
| Nazareth.....                                 | do.....              | 3     | ----- |                                               |
| Persia:                                       |                      |       |       |                                               |
| Teheran.....                                  | July 24-Aug. 23..... | ----- | 3     |                                               |
| Peru:                                         |                      |       |       |                                               |
| Lima.....                                     | Aug. 1-31.....       | 1     | ----- |                                               |
| Union of South Africa:                        |                      |       |       |                                               |
| Orange Free State—<br>Brandfort District..... | Oct. 10-16.....      | ----- | ----- | Outbreak on farm.                             |

**Reports Received from June 26 to December 3, 1926<sup>1</sup>****CHOLERA**

| Place                            | Date                  | Cases | Deaths | Remarks                                                                     |
|----------------------------------|-----------------------|-------|--------|-----------------------------------------------------------------------------|
| Ceylon.....                      |                       |       |        | Apr. 18-May 29, 1926: Cases, 31; deaths, 29.                                |
| China:                           |                       |       |        |                                                                             |
| Amoy.....                        | Aug. 8-Oct. 23.....   | 271   | -----  | Stated to be present in epidemic form.                                      |
| Antung.....                      | Aug. 1-31.....        | 500   | -----  |                                                                             |
| Canton.....                      | June 1-30.....        | 38    | 14     |                                                                             |
| Do.....                          | July 15-31.....       | 54    | 28     |                                                                             |
| Changsha.....                    | Oct. 3-16.....        | 2     | -----  |                                                                             |
| Foochow.....                     | Aug. 15-Oct. 2.....   | ----- | 1      | In foreign population.                                                      |
| Kulangsü.....                    | Sept. 12-18.....      | ----- | 2      |                                                                             |
| Manchuria—                       |                       |       |        |                                                                             |
| Changshun.....                   | Aug. 1-31.....        | 320   | -----  |                                                                             |
| Dairen.....                      | do.....               | 10    | 1      |                                                                             |
| Harbin.....                      | Aug. 5-Sept. 12.....  | 289   | 83     |                                                                             |
| Newchwang.....                   | Aug. 1-31.....        | 167   | -----  |                                                                             |
| Nanking.....                     | July 25-Oct. 2.....   | ----- | -----  | Present.                                                                    |
| Shanghai.....                    | Reported July 20..... | 35    | 8      | Cases, foreign; deaths, native and foreign.                                 |
| Do.....                          | July 25-Oct. 9.....   | 40    | 419    |                                                                             |
| Swatow.....                      | July 11-Oct. 16.....  | 50    | 63     |                                                                             |
| Tsingtao.....                    | July 11-Aug. 30.....  | 4     | 4      | Japanese settlements, 10 deaths; Chinese, 30 to 40 deaths daily; estimated. |
| Chosen:                          |                       |       |        |                                                                             |
| North Heian Province.....        | Sept. 3-16.....       | 70    | 30     | Deaths estimated.                                                           |
| Shingishu.....                   | Sept. 13.....         | 19    | -----  | Including places in vicinity.                                               |
| French Settlements in India..... | Mar. 7-June 26.....   | 31    | 30     |                                                                             |
| Do.....                          | June 27-Aug. 28.....  | 94    | 83     |                                                                             |

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

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

## **Reports Received from June 26 to December 3, 1926—Continued**

### **CHOLERA—Continued**

| Place                    | Date                            | Cases | Deaths | Remarks                                                                                                    |
|--------------------------|---------------------------------|-------|--------|------------------------------------------------------------------------------------------------------------|
| India.....               |                                 |       |        | Apr. 25-June 26, 1926: Cases, 18,526; deaths, 11,531. June 27-Oct. 2, 1926: Cases, 27,267; deaths, 17,286. |
| Bombay.....              | May 30-June 5.....              | 1     | 1      |                                                                                                            |
| Do.....                  | July 18-Oct. 16.....            | 4     | 4      |                                                                                                            |
| Calcutta.....            | Apr. 4-May 29.....              | 478   | 418    |                                                                                                            |
| Do.....                  | June 13-26.....                 | 73    | 69     |                                                                                                            |
| Do.....                  | June 27-Sept. 25.....           | 304   | 272    |                                                                                                            |
| Madras.....              | May 16-June 5.....              | 2     | 1      |                                                                                                            |
| Do.....                  | Aug. 1-Sept. 25.....            | 7     | 6      |                                                                                                            |
| Rangoon.....             | May 9-June 26.....              | 67    | 44     |                                                                                                            |
| Do.....                  | June 27-Sept. 4.....            | 31    | 29     |                                                                                                            |
| Indo-China:              |                                 |       |        |                                                                                                            |
| Saigon.....              | May 2-15.....                   | 52    | 48     |                                                                                                            |
| Do.....                  | May 22-June 26.....             | 42    | 32     |                                                                                                            |
| Do.....                  | June 27-Aug. 14.....            | 31    | 17     |                                                                                                            |
| Japan.....               |                                 |       |        | To Sept. 10, 1926: Cases, 35.                                                                              |
| Ken (Prefecture)—        |                                 |       |        |                                                                                                            |
| Hiroshima.....           | To Sept. 10.....                | 1     | —      |                                                                                                            |
| Hyogo.....               | do.....                         | 7     | —      |                                                                                                            |
| Kagakawa.....            | do.....                         | 8     | —      |                                                                                                            |
| Kanagawa.....            | do.....                         | 3     | —      | Including Yokohama.                                                                                        |
| Kochi.....               | do.....                         | 1     | —      |                                                                                                            |
| Ookayama.....            | do.....                         | 7     | —      |                                                                                                            |
| Osaka.....               | do.....                         | 6     | —      |                                                                                                            |
| Taihoku.....             | Sept. 1-10.....                 | 2     | —      |                                                                                                            |
| Wakayama.....            | To Sept. 10.....                | 2     | —      |                                                                                                            |
| Taiwan Island.....       | Sept. 21-Oct. 10.....           | 11    | —      |                                                                                                            |
| Philippine Islands:      |                                 |       |        |                                                                                                            |
| Manila.....              | Dec. 29, 1925-Oct. 2, 1926..... | 26    | 6      |                                                                                                            |
| Provinces—               |                                 |       |        |                                                                                                            |
| Aibay.....               | Apr. 18-24.....                 | 1     | 1      |                                                                                                            |
| Davao.....               | May 23-29.....                  | 1     | —      |                                                                                                            |
| Mindoro.....             | Feb. 21-Mar. 6.....             | 3     | 3      |                                                                                                            |
| Pampanga.....            | July 25-31.....                 | 1     | 1      |                                                                                                            |
| Rizal.....               | July 18-24.....                 | 1     | —      |                                                                                                            |
| Romblon.....             | Dec. 14-31.....                 | 42    | 43     |                                                                                                            |
| Do.....                  | Jan. 2-Mar. 27.....             | 41    | 35     |                                                                                                            |
| Siam.....                |                                 |       |        | Apr. 1-Oct. 9, 1926: Cases, 7,609; deaths, 5,040.                                                          |
| Bangkok.....             | May 2-June 12.....              | 1,325 | 736    |                                                                                                            |
| Do.....                  | June 20-26.....                 | 56    | 26     |                                                                                                            |
| Do.....                  | June 27-Oct. 9.....             | 96    | 68     |                                                                                                            |
| Straits Settlements:     |                                 |       |        |                                                                                                            |
| Singapore.....           | July 4-17.....                  | 2     | 1      |                                                                                                            |
| On vessel:               |                                 |       |        |                                                                                                            |
| Steamship Macedonia..... | Aug. 5.....                     | 7     | —      | At Yokohama, Japan. Vessel sailed from Singapore July 18, 1926.                                            |

### **PLAGUE**

|                          |                       |     |     |                                          |
|--------------------------|-----------------------|-----|-----|------------------------------------------|
| Algeria:                 |                       |     |     |                                          |
| Algiers.....             | June 21-30.....       | 1   | —   | Under date of July 16, 2 cases reported. |
| Do.....                  | July 1-20.....        | 1   | —   |                                          |
| Do.....                  | Sept. 23.....         | 1   | —   |                                          |
| Bona.....                | Aug. 14.....          | —   | —   |                                          |
| Oran.....                | Sept. 21-Oct. 10..... | —   | 4   |                                          |
| Philippeville.....       | Sept. 7.....          | 1   | —   |                                          |
| Azores:                  |                       |     |     |                                          |
| Fayal Island—            |                       |     |     |                                          |
| Horta.....               | Aug. 2-29.....        | 2   | 2   |                                          |
| St. Michaels Island..... | May 9-June 26.....    | 4   | 1   |                                          |
| Do.....                  | June 27-July 10.....  | 3   | 1   |                                          |
| Brazil:                  |                       |     |     |                                          |
| Paranagua.....           | Oct. 8.....           | —   | —   | Present.                                 |
| British East Africa:     |                       |     |     |                                          |
| Kisumu.....              | May 16-22.....        | 1   | 1   |                                          |
| Do.....                  | Aug. 17-Sept. 11..... | 3   | 2   |                                          |
| Uganda.....              | Mar. 1-June 30.....   | 732 | 574 |                                          |
| Canary Islands:          |                       |     |     |                                          |
| Teneriffe.....           | Aug. 2.....           | 2   | —   |                                          |
| Ceylon:                  |                       |     |     |                                          |
| Colombo.....             | May 29-June 5.....    | 1   | 1   |                                          |

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

**Reports Received from June 26 to December 3, 1926—Continued**

## **PLAGUE—Continued**

| Place                     | Date                  | Cases | Deaths | Remarks                                                                                                  |
|---------------------------|-----------------------|-------|--------|----------------------------------------------------------------------------------------------------------|
| Chile:                    |                       |       |        |                                                                                                          |
| Iquique.....              | June 20-26.....       | ----- | 1      |                                                                                                          |
| China:                    |                       |       |        |                                                                                                          |
| Amoy.....                 | Apr. 18-June 26.....  | 40    | 30     |                                                                                                          |
| Do.....                   | June 27-Aug. 7.....   | 28    | -----  |                                                                                                          |
| Foochow.....              | June 6-July 31.....   | ----- | -----  | Several cases. Not epidemic.                                                                             |
| Nanking.....              | May 9-Sept. 18.....   | ----- | -----  | Prevalent.                                                                                               |
| Swatow.....               | July 25-31.....       | 14    | -----  |                                                                                                          |
| Ecuador.....              |                       |       |        | January-June, 1926: Cases, 385; deaths, 154.                                                             |
| Chimborazo.....           | January-June.....     | 9     | 2      | Rats taken, 766.                                                                                         |
| Guayaquil.....            | May 16-June 30.....   | 6     | -----  | Rats taken, 30,914; found infected, 31.                                                                  |
| Do.....                   | July 1-Oct. 31.....   | 19    | 3      | Rats taken, 82,774; found infected, 115.                                                                 |
| Leon.....                 | January-June.....     | 43    | 19     | Localities, 2.                                                                                           |
| Loja.....                 | do.....               | 176   | 75     | Cantons, 2.                                                                                              |
| Tungurahua.....           | do.....               | 83    | 29     | At Ambato, Huachi, and Pichu.                                                                            |
| Egypt.....                |                       |       |        | Jan. 1-Oct. 21, 1926. Cases, 139.                                                                        |
| City—                     |                       |       |        |                                                                                                          |
| Alexandria.....           | July 27-Aug. 12.....  | 4     | 1      |                                                                                                          |
| Suez.....                 | May 21-July 1.....    | 9     | 5      |                                                                                                          |
| Do.....                   | July 29.....          | 2     | -----  |                                                                                                          |
| Provinces—                |                       |       |        |                                                                                                          |
| Behera.....               | July 23-Aug. 15.....  | 4     | 1      |                                                                                                          |
| Beni-Suef.....            | May 23-June 8.....    | 8     | 2      |                                                                                                          |
| Charkieh.....             | July 27.....          | 1     | 1      |                                                                                                          |
| Gharbieh.....             | June 2.....           | 1     | 1      |                                                                                                          |
| Minieh.....               | July 24.....          | 1     | 1      |                                                                                                          |
| Sidi Barrani.....         | Sept. 30-Oct. 21..... | 23    | 3      | In western desert.                                                                                       |
| France:                   |                       |       |        |                                                                                                          |
| Marseille.....            | July 8.....           | 1     | 1      | Reported July 24.                                                                                        |
| Paris.....                | Oct. 18.....          | 1     | -----  |                                                                                                          |
| St. Denis.....            | Reported Aug. 2.....  | 1     | -----  | Vicinity of Paris.                                                                                       |
| St. Ouen.....             | Aug. 14.....          | 2     | -----  | Suburb of Paris.                                                                                         |
| Great Britain:            |                       |       |        |                                                                                                          |
| Liverpool.....            | Aug. 29-Sept. 4.....  | 2     | 1      |                                                                                                          |
| Greece:                   |                       |       |        |                                                                                                          |
| Athens.....               | Apr. 1-May 31.....    | 16    | 4      | Including Piræus.                                                                                        |
| Do.....                   | Aug. 1-Sept. 30.....  | 20    | 5      | Do.                                                                                                      |
| Patras.....               | May 27-June 12.....   | 4     | 1      |                                                                                                          |
| Do.....                   | July 25-Oct. 29.....  | 9     | 5      |                                                                                                          |
| Zante.....                | May 17.....           | 1     | -----  |                                                                                                          |
| Hawaii Territory:         |                       |       |        |                                                                                                          |
| Hamakua.....              | June 9.....           | ----- | -----  | 1 plague rodent trapped near Hamakua Mill.                                                               |
| Honokaa.....              | Oct. 6.....           | 1     | 1      | Plague infected rat trapped.                                                                             |
| Paauhau.....              | July 18-24.....       | ----- | -----  | Apr. 25-June 16, 1926. Cases, 53,001; deaths, 41,576. June 27-Oct. 2, 1926: Cases, 9,026; deaths, 5,143. |
| India:                    |                       |       |        |                                                                                                          |
| Bombay.....               | May 2-June 26.....    | 16    | 15     |                                                                                                          |
| Do.....                   | July 18-Oct. 9.....   | 13    | 12     |                                                                                                          |
| Karachi.....              | May 23-June 26.....   | 15    | 13     |                                                                                                          |
| Do.....                   | July 11-17.....       | 1     | 1      |                                                                                                          |
| Madras Presidency.....    | Apr. 25-June 26.....  | 162   | 93     |                                                                                                          |
| Do.....                   | July 4-Oct. 2.....    | 831   | 399    |                                                                                                          |
| Rangoon.....              | May 9-June 26.....    | 20    | 15     |                                                                                                          |
| Do.....                   | June 27-Oct. 9.....   | 84    | 74     |                                                                                                          |
| Indo-China:               |                       |       |        |                                                                                                          |
| Saigon.....               | May 23-June 26.....   | 8     | 3      |                                                                                                          |
| Do.....                   | July 18-Aug. 7.....   | 2     | 1      |                                                                                                          |
| Iraq:                     |                       |       |        |                                                                                                          |
| Bagdad.....               | Apr. 18-June 12.....  | 161   | 108    |                                                                                                          |
| Do.....                   | July 18-Sept. 11..... | 4     | 4      |                                                                                                          |
| Japan:                    |                       |       |        |                                                                                                          |
| Yokohama.....             | July 2-Aug. 10.....   | 9     | 80     |                                                                                                          |
| Java:                     |                       |       |        |                                                                                                          |
| Batavia.....              | Apr. 24-June 19.....  | 65    | 65     |                                                                                                          |
| Do.....                   | June 26-Oct. 16.....  | 89    | 87     |                                                                                                          |
| Cheribon.....             | Apr. 11-24.....       | 3     | 3      |                                                                                                          |
| Do.....                   | Sept. 12-18.....      | 1     | 1      |                                                                                                          |
| East Java and Madura..... | June 13-19.....       | 1     | 1      |                                                                                                          |
| Do.....                   | July 25-Oct. 16.....  | 1     | 2      |                                                                                                          |
| Surabaya.....             | Aug. 22-Sept. 25..... | 18    | 2      |                                                                                                          |

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

## **Reports Received from June 26 to December 3, 1926—Continued**

### **PLAGUE—Continued**

| Place                    | Date                  | Cases | Deaths | Remarks                                                                                          |
|--------------------------|-----------------------|-------|--------|--------------------------------------------------------------------------------------------------|
| Madagascar:              |                       |       |        |                                                                                                  |
| Ambositra Province.....  | May 1-15.....         | 4     | 4      | Septicemic.                                                                                      |
| Antisirabi Province..... | June 16-30.....       | 4     | 4      |                                                                                                  |
| Itasy Province.....      | Do.....               | 17    | 10     |                                                                                                  |
| Do.....                  | Aug. 16-Sept. 15..... | 7     | 7      |                                                                                                  |
| Maevatanana.....         | Do.....               | 2     | 2      |                                                                                                  |
| Majunga Province.....    | June 16-30.....       | 10    | 6      |                                                                                                  |
| Do.....                  | Aug. 16-Sept. 15..... | 57    | 48     |                                                                                                  |
| Mananjary Province.....  | Do.....               | 1     | 1      |                                                                                                  |
| Moramanga Province.....  | Apr. 1-15.....        | 2     | 2      | Do.                                                                                              |
| Do.....                  | Sept. 1-15.....       | 8     | 8      |                                                                                                  |
| Tamatave Province.....   | Aug. 16-Sept. 15..... | 17    | 12     |                                                                                                  |
| Tananarive Province..... |                       |       |        | Apr. 1-June 30, 1926: Cases, 130; deaths, 120. July 1-Sept. 15, 1926: Cases, 155; deaths, 148.   |
| Towns—                   |                       |       |        |                                                                                                  |
| Majunga.....             | Aug. 1-15.....        | 14    | 10     |                                                                                                  |
| Tamatave (Port).....     | May 16-31.....        | 1     | 1      |                                                                                                  |
| Do.....                  | July 1-Aug. 15.....   | 6     | 5      |                                                                                                  |
| Tananarive.....          | Apr. 1-June 30.....   | 7     | 7      |                                                                                                  |
| Do.....                  | July 1-Sept. 15.....  | 28    | 28     |                                                                                                  |
| Mauritius:               |                       |       |        |                                                                                                  |
| Port Louis.....          | July 31.....          | 1     | 1      |                                                                                                  |
| Nigeria.....             |                       |       |        | Feb. 1-June 30, 1926: Cases, 191; deaths, 163. July 1-31, 1926: Cases, 121; deaths, 112.         |
| Peru.....                |                       |       |        | May-June, 1926: Cases, 57; deaths, 16. July 1-Sept. 30, 1926: Cases, 89; deaths, 52.             |
| Departments—             |                       |       |        | Present.                                                                                         |
| Ancash.....              | May 1-31.....         |       |        |                                                                                                  |
| Do.....                  | July 1-Sept. 30.....  | 2     |        |                                                                                                  |
| Cajamarca.....           | May 1-June 30.....    | 10    | 4      |                                                                                                  |
| Do.....                  | Aug. 1-Sept. 30.....  | 1     |        |                                                                                                  |
| Ica.....                 | May 1-31.....         | 1     |        |                                                                                                  |
| Do.....                  | July 1-31.....        | 1     |        |                                                                                                  |
| Junin.....               | Sept. 1-30.....       | 21    | 20     |                                                                                                  |
| Lambayeque.....          | Do.....               | 1     |        |                                                                                                  |
| Libertad.....            | May 1-31.....         | 4     |        |                                                                                                  |
| Do.....                  | Sept. 1-30.....       | 3     | 1      |                                                                                                  |
| Lima.....                | May 1-June 30.....    | 29    | 12     |                                                                                                  |
| Do.....                  | July 1-Sept. 30.....  | 60    | 31     |                                                                                                  |
| Piura.....               | June 1-30.....        | 13    |        |                                                                                                  |
| Russia.....              |                       |       |        | Jan. 1-Mar. 31, 1926: Cases, 37.                                                                 |
| Senegal.....             |                       |       |        | Nov. 1-30, 1925: Cases, 3; deaths, 2. Mar. 1-June 30, 1926: Cases, 342; deaths, 213.             |
| Siam.....                |                       |       |        | Apr. 1-Oct. 2, 1926: Cases, 15; deaths, 10.                                                      |
| Bangkok.....             | May 23-June 26.....   | 2     | 2      |                                                                                                  |
| Do.....                  | July 18-24.....       | 1     | 1      |                                                                                                  |
| Straits Settlements:     |                       |       |        |                                                                                                  |
| Singapore.....           | May 2-8.....          | 1     | 1      |                                                                                                  |
| Do.....                  | July 4-17.....        | 1     | 1      |                                                                                                  |
| Syria:                   |                       |       |        |                                                                                                  |
| Beirut.....              | July 1-Aug. 10.....   | 2     |        |                                                                                                  |
| Do.....                  | Oct. 15.....          |       |        | Present.                                                                                         |
| Tunisia.....             | May 11-June 30.....   | 174   |        |                                                                                                  |
| Do.....                  | July 1-Aug. 20.....   | 13    |        | 9 cases 30 miles south of Kairouan.                                                              |
| Kairouan.....            | June 9.....           | 3     |        |                                                                                                  |
| Turkey:                  |                       |       |        |                                                                                                  |
| Constantinople.....      | Aug. 1-Sept. 25.....  | 7     | 4      |                                                                                                  |
| Union of South Africa:   |                       |       |        |                                                                                                  |
| Cape Province.....       | May 16-22.....        | 5     | 3      |                                                                                                  |
| Calvinia District.....   | June 13-26.....       | 12    | 6      |                                                                                                  |
| Do.....                  | June 27-Aug. 21.....  | 3     | 3      |                                                                                                  |
| Williston District.....  | June 13-26.....       | 2     |        |                                                                                                  |
| Do.....                  | June 27-July 3.....   | 1     |        |                                                                                                  |
| Orange Free State—       |                       |       |        |                                                                                                  |
| Hoopstad District.....   | Aug. 15-21.....       | 1     |        |                                                                                                  |
| Protestpan.....          | May 9-22.....         | 3     | 3      |                                                                                                  |
| On vessel:               |                       |       |        |                                                                                                  |
| Steamship Zaria.....     | September, 1926.....  | 2     | 2      | At Liverpool, England, from Lagos, Nigeria, West Africa; 29 plague-infected rats found on board. |

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received from June 26 to December 3, 1926—Continued****SMALLPOX**

| Place                      | Date                  | Cases | Deaths | Remarks                                                                  |
|----------------------------|-----------------------|-------|--------|--------------------------------------------------------------------------|
| Algeria.....               |                       |       |        | July 21-Sept. 20, 1926: Cases, 230.                                      |
| Algiers.....               | May 21-June 20.....   | 14    |        |                                                                          |
| Do.....                    | July 1-Aug. 31.....   | 3     |        |                                                                          |
| Arabia:.....               |                       |       |        |                                                                          |
| Aden.....                  | Oct. 3-9.....         | 1     |        | Imported.                                                                |
| Belgium.....               |                       |       |        | Sept. 1-30, 1926: Cases, 2.                                              |
| Antwerp.....               | Aug. 1-7.....         | 1     | 1      |                                                                          |
| Bolivia:.....              |                       |       |        |                                                                          |
| La Paz.....                | May 1-June 30.....    | 14    | 7      |                                                                          |
| Do.....                    | July 1-Aug. 31.....   | 16    | 8      |                                                                          |
| Brazil:.....               |                       |       |        |                                                                          |
| Bahia.....                 | June 20-26.....       | 1     |        |                                                                          |
| Do.....                    | June 27-Oct. 2.....   | 71    | 39     |                                                                          |
| Manaos.....                | Apr. 1-30.....        |       | 5      |                                                                          |
| Para.....                  | May 16-June 26.....   | 26    | 25     |                                                                          |
| Do.....                    | June 27-Sept. 25..... | 29    | 19     |                                                                          |
| Pernambuco.....            | July 11-Sept. 25..... | 166   | 22     |                                                                          |
| Porto Alegre.....          | Aug. 10-31.....       | 2     |        |                                                                          |
| Rio de Janeiro.....        | May 2-June 19.....    | 132   | 91     |                                                                          |
| Do.....                    | July 4-Sept. 25.....  | 2,534 | 1,338  |                                                                          |
| Do.....                    | Oct. 3-16.....        | 196   | 113    | Jan. 1-Oct. 16, 1926: Cases, 3,601; deaths, 1,896.                       |
| Sao Paulo.....             | June 27-Aug. 22.....  |       | 5      |                                                                          |
| Santos.....                | Mar. 1-7.....         |       | 1      |                                                                          |
| British East Africa:.....  |                       |       |        |                                                                          |
| Mombasa.....               | July 5-11.....        | 5     | 4      |                                                                          |
| Tanganyika.....            | May 1-31.....         | 252   | 46     |                                                                          |
| Uganda.....                | Mar. 1-May 31.....    | 3     |        |                                                                          |
| British South Africa:..... |                       |       |        |                                                                          |
| Northern Rhodesia.....     | May 18-24.....        | 17    | 6      | Natives.                                                                 |
| Do.....                    | June 8-14.....        | 5     |        |                                                                          |
| Do.....                    | Sept. 11-17.....      | 1     |        |                                                                          |
| Canada.....                |                       |       |        | May 30-June 26, 1926: Cases, 70.                                         |
|                            |                       |       |        | June 27-Nov. 6, 1926: Cases, 359.                                        |
| Alberta.....               |                       |       |        | May 30-June 12, 1926: Cases, 3.                                          |
| Calgary.....               | Sept. 5-Nov. 13.....  | 44    |        | June 27-Nov. 6, 1926: Cases, 73.                                         |
| British Columbia—          |                       |       |        |                                                                          |
| Vancouver.....             | Aug. 16-Sept. 12..... | 3     |        |                                                                          |
| Manitoba.....              |                       |       |        | May 30-June 26, 1926: Cases, 15.                                         |
|                            |                       |       |        | June 27-Nov. 6, 1926: Cases, 53.                                         |
| Winnipeg.....              | June 6-12.....        | 5     |        |                                                                          |
| Do.....                    | July 4-Nov. 6.....    | 13    |        |                                                                          |
| New Brunswick.....         |                       |       |        | Oct 31—Nov. 6, 1926: 1 case.                                             |
| Northumberland             |                       |       |        |                                                                          |
| County.....                | Oct. 11-23.....       | 1     |        |                                                                          |
| Ontario.....               |                       |       |        | May 30-June 26, 1926: Cases, 36.                                         |
| Fort William.....          | July 25-Aug. 7.....   | 2     |        | June 27-Nov. 6: Cases, 127.                                              |
| Kingston.....              | May 23-June 26.....   | 5     |        |                                                                          |
| Do.....                    | July 11-17.....       | 2     |        |                                                                          |
| Kitchener.....             | Apr. 26-May 29.....   | 3     | 1      |                                                                          |
| North Bay.....             | May 2-22.....         | 5     |        |                                                                          |
| Do.....                    | July 25-31.....       | 2     |        |                                                                          |
| Orillia.....               | Apr. 26-May 29.....   | 7     |        |                                                                          |
| Ottawa.....                | July 18-24.....       | 1     |        |                                                                          |
| Packenham.....             | do.....               | 10    |        |                                                                          |
| Peterboro.....             | Sept. 1-30.....       | 10    |        |                                                                          |
| Toronto.....               | July 18-Nov. 13.....  | 31    |        |                                                                          |
| Waterloo.....              | July 18-24.....       | 6     |        |                                                                          |
| Saskatchewan.....          |                       |       |        | May 30-June 26, 1926: Cases, 16.                                         |
| Regina.....                | July 4-Sept. 25.....  | 3     |        | June 27-Nov. 6: Cases, 105.                                              |
| Ceylon.....                |                       |       |        | Mar. 14-May 29, 1926: Cases, 44; deaths, 3. Sept. 12-18, 1926: Cases, 2. |
| Colombo.....               | Sept. 19-Oct. 2.....  | 6     |        |                                                                          |
| Chile:.....                |                       |       |        |                                                                          |
| Antofagasta.....           | June 6-12.....        | 1     |        |                                                                          |
| China:.....                |                       |       |        |                                                                          |
| Amoy.....                  | May 1-June 26.....    | 4     | 8      |                                                                          |
| Do.....                    | July 4-10.....        | 1     |        |                                                                          |
| Antung.....                | May 17-June 19.....   | 5     |        |                                                                          |
| Do.....                    | July 4-18.....        | 2     |        |                                                                          |
| Canton.....                | May 1-31.....         | 4     | 2      |                                                                          |
| Changsha.....              | Aug. 8-14.....        | 1     |        |                                                                          |
| Chungking.....             | May 2-Oct 9.....      |       |        | Present.                                                                 |
| Foochow.....               | do.....               |       |        | Do.                                                                      |
| Fushun.....                | Sept. 12-18.....      | 1     |        |                                                                          |



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

## **Reports Received from June 26 to December 3, 1926—Continued**

### **SMALLPOX—Continued**

| Place                            | Date                  | Cases | Deaths | Remarks                           |
|----------------------------------|-----------------------|-------|--------|-----------------------------------|
| <b>China—Continued.</b>          |                       |       |        |                                   |
| Hongkong.....                    | May 2-June 26.....    | 19    | 10     |                                   |
| Do.....                          | June 27-July 3.....   | 1     | 1      |                                   |
| Manchuria.....                   | July 4-31.....        | 18    |        | Railway stations.                 |
| An-shan.....                     | May 16-June 12.....   | 5     |        | South Manchurian Railway.         |
| Antung.....                      | May 16-June 19.....   | 5     |        |                                   |
| Changchun.....                   | May 16-June 26.....   | 6     |        | Do.                               |
| Do.....                          | June 27-Sept. 11..... | 2     |        | Do.                               |
| Dairen.....                      | Apr. 26-June 20.....  | 69    | 16     |                                   |
| Do.....                          | June 23-Aug. 8.....   | 5     | 3      |                                   |
| Fushun.....                      | May 16-June 5.....    | 4     |        | Do.                               |
| Harbin.....                      | May 14-June 30.....   | 21    |        | Do.                               |
| Do.....                          | July 1-28.....        | 12    |        |                                   |
| Kai-yuan.....                    | May 16-June 30.....   | 10    |        | Do.                               |
| Kungchuling.....                 | June 13-19.....       | 1     |        | Do.                               |
| Liaoyang.....                    | May 16-June 30.....   | 4     |        | Do.                               |
| Mukden.....                      | do.....               | 4     |        | Do.                               |
| Penhsihu.....                    | May 16-June 19.....   | 4     |        | Do.                               |
| Do.....                          | Aug. 8-Oct. 3.....    | 3     |        | Do.                               |
| Ssulingai.....                   | May 16-June 30.....   | 2     |        | Do.                               |
| Do.....                          | Aug. 1-7.....         | 1     |        | Do.                               |
| Teshinchiao.....                 | May 16-June 30.....   | 2     |        | Do.                               |
| Tieh-ling.....                   | Sept. 27-Oct. 3.....  | 1     |        |                                   |
| Wa-feng-tien.....                | do.....               | 3     |        | Do.                               |
| Do.....                          | Aug. 1-7.....         | 1     |        | Do.                               |
| Nanking.....                     | May 8-Sept. 18.....   |       |        | Present                           |
| Shanghai.....                    | May 2-June 26.....    | 10    | 25     | Cases, foreign: Deaths, popula-   |
| Do.....                          | June 27-July 24.....  | 3     | 3      | tion of international concession, |
| Do.....                          | Oct. 3-9.....         | 1     |        | foreign and native.               |
| Swatow.....                      | May 9-Oct. 23.....    |       |        | Sporadic.                         |
| Tientsin.....                    | June 2-26.....        |       | 1      | Reported by British municipal-    |
|                                  |                       |       |        | ity.                              |
| Wanshien.....                    | May 1.....            |       |        | Prevalent.                        |
| Chosen.....                      |                       |       |        | Mar. 1-June 30, 1926: Cases, 667; |
| Fusan.....                       | May 1-31.....         | 1     |        | deaths, 146. July 1-31, 1926:     |
| Seishun.....                     | do.....               | 2     | 1      | Cases, 82; deaths, 27.            |
| <b>Egypt:</b>                    |                       |       |        |                                   |
| Alexandria.....                  | May 15-July 1.....    | 18    | 3      |                                   |
| Do.....                          | July 23-Oct. 7.....   | 13    | 6      |                                   |
| Cairo.....                       | Jan. 29-May 13.....   | 39    | 8      |                                   |
| <b>Estonia.....</b>              |                       |       |        |                                   |
|                                  |                       |       |        | May 1-June 30, 1926: Cases, 3.    |
| <b>France.....</b>               |                       |       |        |                                   |
|                                  |                       |       |        | Mar. 1-June 30, 1926: Cases, 141. |
| Paris.....                       | Sept. 1-Oct. 20.....  | 54    | 12     | July 1-Aug. 31: Cases, 24.        |
| St. Etienne.....                 | Apr. 18-June 15.....  | 7     | 3      |                                   |
| Do.....                          | Sept. 16-30.....      | 2     | 1      |                                   |
| French Settlements in India..... | Mar. 7-June 26.....   | 282   | 282    |                                   |
| Do.....                          | June 27-Aug. 28.....  | 68    | 68     |                                   |
| <b>Germany:</b>                  |                       |       |        |                                   |
| Coblenz.....                     | Oct. 24-30.....       | 1     |        |                                   |
| Gold Coast.....                  | Mar. 1-June 30.....   | 9     |        |                                   |
| Do.....                          | July 1-31.....        | 20    | 1      |                                   |
| <b>Great Britain:</b>            |                       |       |        |                                   |
| England and Wales.....           |                       |       |        | May 23-June 26, 1926: Cases, 933; |
| Birmingham.....                  | Sept. 26-Oct. 2.....  | 1     |        | June 27-Oct. 23, 1926: Cases,     |
| Bradford.....                    | May 23-29.....        | 1     |        | 1,764.                            |
| Do.....                          | Aug. 29-Sept. 4.....  | 1     |        |                                   |
| Hull.....                        | Oct. 17-23.....       | 1     |        |                                   |
| London.....                      | Sept. 26-Oct. 23..... | 4     |        |                                   |
| Newcastle-on-Tyne.....           | June 6-12.....        | 1     |        |                                   |
| Do.....                          | July 11-Oct. 30.....  | 5     |        | At Gateshead, several cases re-   |
| Nottingham.....                  | May 2-June 5.....     | 7     |        | ported.                           |
| Do.....                          | July 18-24.....       | 1     |        |                                   |
| Sheffield.....                   | June 13-19.....       | 1     |        |                                   |
| Do.....                          | July 4-Oct. 23.....   | 21    |        |                                   |
| South Shields.....               | Oct. 3-9.....         | 1     |        |                                   |
| <b>Greece:</b>                   |                       |       |        |                                   |
| Athens.....                      | July 1-31.....        | 71    | 6      | Including Piræus.                 |
| Saloniki.....                    | June 1-14.....        |       | 3      |                                   |
| <b>Guatemala:</b>                |                       |       |        |                                   |
| Guatemala City.....              | June 1-30.....        |       | 2      |                                   |
| <b>India.....</b>                |                       |       |        |                                   |
| Bombay.....                      | May 2-June 26.....    | 220   | 134    | Apr. 26-June 26, 1926: Cases,     |
| Do.....                          | June 27-Oct. 16.....  | 122   | 67     | 54,851; deaths, 14,771. June      |
| Calcutta.....                    | Apr. 4-May 20.....    | 171   | 152    | 27-Oct. 2, 1926: Cases, 27,415;   |
| Do.....                          | June 13-26.....       | 24    | 18     | deaths, 8,365.                    |
| Do.....                          | June 27-Oct. 2.....   | 45    | 42     |                                   |

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received from June 26 to December 3, 1926—Continued****SMALLPOX—Continued**

| Place                   | Date             | Cases | Deaths | Remarks                                                                                   |
|-------------------------|------------------|-------|--------|-------------------------------------------------------------------------------------------|
| India—Continued.        |                  |       |        |                                                                                           |
| Karachi                 | May 16-June 26   | 44    | 18     |                                                                                           |
| Do.                     | June 27-Oct. 2   | 14    | 7      |                                                                                           |
| Madras                  | May 16-June 26   | 7     | 4      |                                                                                           |
| Do.                     | June 27-Oct. 23  | 78    | 21     |                                                                                           |
| Rangoon                 | May 9-June 26    | 10    | 5      |                                                                                           |
| Do.                     | July 4-Sept. 11  | 21    | 4      |                                                                                           |
| Indo-China:             |                  |       |        |                                                                                           |
| Saigon                  | May 9-June 26    | 2     |        |                                                                                           |
| Iraq:                   |                  |       |        |                                                                                           |
| Baghdad                 | do               | 8     | 3      |                                                                                           |
| Do.                     | July 4-Sept. 11  | 3     | 1      |                                                                                           |
| Basra                   | Apr. 18-June 22  | 34    | 25     |                                                                                           |
| Do.                     | Aug. 15-21       | 1     |        |                                                                                           |
| Italy                   |                  |       |        |                                                                                           |
| Catania                 | Aug. 9-15        | 2     |        | Mar. 28-June 26, 1926: Cases, 31;                                                         |
| Rome                    | June 14-20       | 4     |        | June 27-July 31, 1926: Cases, 11.                                                         |
| Jamaica                 |                  |       |        | Entire consular district, including island of Sardinia.                                   |
| Do.                     |                  |       |        | Apr. 25-June 26, 1926: Cases, 201.                                                        |
|                         |                  |       |        | (Reported as alastrim.)                                                                   |
|                         |                  |       |        | June 27-Oct. 30, 1926: Cases, 227.                                                        |
|                         |                  |       |        | (Reported as alastrim.)                                                                   |
|                         |                  |       |        | Apr. 11-June 26, 1926: Cases, 658.                                                        |
|                         |                  |       |        | June 27-Aug. 26, 1926: Cases, 70.                                                         |
| Japan                   |                  |       |        |                                                                                           |
| Kobe                    | May 30-June 5    | 1     |        |                                                                                           |
| Nagoya                  | May 16-June 22   |       | 1      |                                                                                           |
| Do.                     | July 4-10        | 1     |        |                                                                                           |
| Taiwan Island           | May 11-20        | 24    |        |                                                                                           |
| Do.                     | June 1-20        | 23    |        |                                                                                           |
| Do.                     | July 11-Aug. 10  | 2     |        |                                                                                           |
| Tokyo                   | June 26-July 17  | 3     |        |                                                                                           |
| Yokohama                | May 2-8          | 2     |        |                                                                                           |
| Java:                   |                  |       |        |                                                                                           |
| Batavia                 | May 15-June 25   | 2     |        | Province.                                                                                 |
| Do.                     | July 24-Oct. 16  | 17    |        | Do.                                                                                       |
| East Java and Madura    | Apr. 11-July 3   | 100   | 6      |                                                                                           |
| Do.                     | July 4-Oct. 2    | 61    | 3      |                                                                                           |
| Malang                  | Apr. 4-10        | 6     | 1      | Interior.                                                                                 |
| Surabaya                | May 16-22        | 14    | 1      |                                                                                           |
| Do.                     | July 18-Sept. 25 | 143   | 8      |                                                                                           |
| Latvia                  |                  |       |        | Apr. 1-June 30, 1926: Cases, 5.                                                           |
| Mexico                  |                  |       |        | Feb. 1-June 30, 1926: Deaths, 1,525.                                                      |
| Agascalientes           | June 13-26       |       | 3      |                                                                                           |
| Guadalajara             | June 8-14        |       | 2      |                                                                                           |
| Do.                     | June 29-Sept. 27 |       | 8      |                                                                                           |
| Mexico City             | May 16-June 5    | 3     |        | Including municipalities in Federal District.                                             |
| Do.                     | July 25-Sept. 25 | 6     |        | Do.                                                                                       |
| Saltillo                | July 18-24       |       | 1      |                                                                                           |
| San Antonio de Arenales | Jan. 1-June 30   |       |        | Present; 100 miles from Chihuahua.                                                        |
| San Luis Potosi         | June 13-26       |       | 7      |                                                                                           |
| Do.                     | July 4-Nov. 13   |       | 23     |                                                                                           |
| Torreón                 | May 1-June 30    |       | 17     |                                                                                           |
| Do.                     | July 1-Oct. 23   |       | 14     |                                                                                           |
| Netherlands:            |                  |       |        |                                                                                           |
| Amsterdam               | July 18-24       |       | 9      |                                                                                           |
| Nigeria                 |                  |       |        | Feb. 1-June 30, 1926: Cases, 521; deaths, 49.                                             |
| Persia:                 |                  |       |        |                                                                                           |
| Teheran                 | Apr. 21-July 23  |       | 10     |                                                                                           |
| Peru:                   |                  |       |        |                                                                                           |
| Arequipa                | June 1-30        |       | 1      |                                                                                           |
| Poland                  |                  |       |        | Mar. 28-May 1, 1926: Cases, 12; deaths, 1. June 27-Sept. 11, 1926: Cases, 416; deaths, 1. |
| Portugal:               |                  |       |        |                                                                                           |
| Lisbon                  | Apr. 26-June 19  | 10    | 3      |                                                                                           |
| Do.                     | July 11-Nov. 6   | 35    | 7      |                                                                                           |
| Oporto                  | May 23-June 5    | 4     |        |                                                                                           |
| Do.                     | July 11-24       | 2     |        |                                                                                           |
| Russia                  |                  |       |        | Jan. 1-Apr. 30, 1926: Cases, 2,529;                                                       |
| Stam                    |                  |       |        | Apr. 1-Oct. 2, 1926: Cases, 590;                                                          |
| Bangkok                 | May 2-June 12    | 23    | 20     | deaths, 236.                                                                              |
| Do.                     | July 4-Oct. 2    | 77    | 60     |                                                                                           |
| Spain                   |                  |       |        | Jan. 1-June 30, 1926: Deaths, 99.                                                         |
| Valencia                | Aug. 22-Oct. 23  | 3     |        |                                                                                           |

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received from June 26 to December 3, 1926—Continued****SMALLPOX—Continued**

| Place                 | Date             | Cases | Deaths | Remarks                                                                                                                       |
|-----------------------|------------------|-------|--------|-------------------------------------------------------------------------------------------------------------------------------|
| Straits Settlements:  |                  |       |        |                                                                                                                               |
| Singapore             | Apr. 25-May 1    | 1     |        |                                                                                                                               |
| Do.                   | July 11-17       | 1     |        |                                                                                                                               |
| Sumatra:              |                  |       |        |                                                                                                                               |
| Medan                 | Aug. 22-28       |       |        | 1 case varioloid.                                                                                                             |
| Switzerland:          |                  |       |        |                                                                                                                               |
| Lucerne Canton        | June 1-30        | 1     |        |                                                                                                                               |
| Do.                   | July 1-31        | 2     |        |                                                                                                                               |
| Tripolitania          | Apr. 1-June 30   | 12    |        |                                                                                                                               |
| Tunisia               |                  |       |        |                                                                                                                               |
| Tunis                 | Aug. 11-30       | 2     |        | Apr. 1-June 30, 1926: Cases, 17.                                                                                              |
| Union of South Africa | June 1-30        | 8     | 1      | July 1-Sept. 30, 1926: Cases, 38.                                                                                             |
| Cape Province         | June 20-26       |       |        | Outbreaks.                                                                                                                    |
| Do.                   | Aug. 15-21       |       |        | Do.                                                                                                                           |
| Idutya district       | May 23-29        |       |        | Do.                                                                                                                           |
| Natal                 | May 30-June 5    |       |        | Do.                                                                                                                           |
| Orange Free State     | June 20-Aug. 28  |       |        | Do.                                                                                                                           |
| Transvaal             |                  |       |        | June 6-12, 1926: Outbreaks in Pietersburg and Rustenburg districts.                                                           |
| Do.                   | Aug. 29-Sept. 4  | 1     |        | Native.                                                                                                                       |
| Johannesburg          | May 9-June 12    | 5     |        |                                                                                                                               |
| Do.                   | July 11-Sept. 25 | 4     |        |                                                                                                                               |
| Pretoria              | Sept. 19-25      | 1     |        |                                                                                                                               |
| Yugoslavia            |                  |       |        |                                                                                                                               |
| Zagreb                | Aug. 9-15        | 2     |        | Apr. 15-30, 1926: Cases, 2; deaths, 1.                                                                                        |
| On vessels:           |                  |       |        |                                                                                                                               |
| S. S. Karapara        |                  |       |        | At Zanzibar, June 7, 1926: 1 case of smallpox landed. At Durban, Union of South Africa, June 16, 1926: 1 suspect case landed. |
| Steamship             | July 2           | 1     |        | Vessel from Glasgow, Scotland, for Canada. Patient from Glasgow; removed at quarantine on outward voyage.                     |

**TYPHUS FEVER**

|                |                  |    |   |                                                                                         |
|----------------|------------------|----|---|-----------------------------------------------------------------------------------------|
| Algeria        |                  |    |   | July 21-Sept. 20, 1926: Cases, 34; deaths, 1.                                           |
| Algiers        | May 21-June 30   | 7  | 1 |                                                                                         |
| Do.            | July 21-Aug. 31  | 3  |   |                                                                                         |
| Argentina:     |                  |    |   |                                                                                         |
| Rosario        | Feb. 1-28        | 2  |   |                                                                                         |
| Bolivia:       |                  |    |   |                                                                                         |
| La Paz         | June 1-30        |    | 1 |                                                                                         |
| Do.            | Aug. 1-31        | 9  | 1 |                                                                                         |
| Bulgaria       |                  |    |   | Mar. 1-June 30, 1926: Cases, 87; deaths, 14.                                            |
| Chile:         |                  |    |   |                                                                                         |
| Antofagasta    | May 23-June 26   | 4  |   |                                                                                         |
| Do.            | June 27-July 3   | 1  |   |                                                                                         |
| Concepcion     | June 1-7         |    | 1 |                                                                                         |
| Valparaiso     | Apr. 29-May 5    |    | 1 |                                                                                         |
| Do.            | Aug. 14-Sept. 18 | 7  |   |                                                                                         |
| China:         |                  |    |   |                                                                                         |
| Antung         | June 14-27       | 7  | 1 |                                                                                         |
| Do.            | June 28-Oct. 24  | 42 | 1 |                                                                                         |
| Canton         | May 1-31         | 1  |   |                                                                                         |
| Chungking      | Aug. 29-Sept. 4  |    |   |                                                                                         |
| Ichang         |                  |    | 1 | Present.                                                                                |
| Wanshien       |                  |    |   | Reported May 1, 1926. Occurring among troops.                                           |
|                |                  |    |   | Present among troops, May 1, 1926. Locality in Chungking consular district.             |
| Chosen         |                  |    |   | Feb. 1-June 30, 1926: Cases, 1,005; deaths, 112. July 1-31, 1926: Cases, 37; deaths, 6. |
| Chemulpo       | May 1-June 30    | 38 | 2 |                                                                                         |
| Do.            | July 1-31        | 7  | 2 |                                                                                         |
| Gensan         | June 1-30        | 1  |   |                                                                                         |
| Seoul          | do               | 8  | 3 |                                                                                         |
| Do.            | July 1-Aug. 31   | 8  |   |                                                                                         |
| Czechoslovakia |                  |    |   | Jan. 1-June 30, 1926: Cases, 156; deaths, 6.                                            |

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received from June 26 to December 3, 1926—Continued****TYPHUS FEVER—Continued**

| Place                       | Date                 | Cases | Deaths | Remarks                             |
|-----------------------------|----------------------|-------|--------|-------------------------------------|
| Egypt:                      |                      |       |        |                                     |
| Alexandria.....             | July 16-Aug. 19....  | 3     | -----  |                                     |
| Do.....                     | Oct. 1-7.....        | 1     | 1      |                                     |
| Cairo.....                  | Jan. 29-May 13....   | 89    | 27     |                                     |
| Do.....                     | July 23-Aug. 5....   | 1     | -----  |                                     |
| Port Said.....              | June 4-24.....       | 4     | 1      |                                     |
| Do.....                     | July 9-Oct. 7.....   | 5     | 1      |                                     |
| France.....                 | Aug. 1-31.....       | 5     | -----  |                                     |
| Great Britain:              |                      |       |        |                                     |
| Scotland—                   |                      |       |        |                                     |
| Glasgow.....                | July 30-Aug. 21....  | 9     | 1      |                                     |
| Greece:                     |                      |       |        |                                     |
| Athens.....                 | Sept. 1-30.....      | ----- | 17     | Including Piræus.                   |
| Hungary.....                | May 1-June 30.....   | 3     | -----  |                                     |
| Ireland (Irish Free State): |                      |       |        |                                     |
| Cobh (Queenstown).....      | May 30-June 5.....   | 1     | -----  |                                     |
| Do.....                     | June 27-Aug. 23....  | 2     | 1      |                                     |
| Cork.....                   | June 5.....          | 1     | -----  |                                     |
| Cork County.....            | Oct. 17-23.....      | 1     | -----  |                                     |
| Kerr County—                |                      |       |        |                                     |
| Dingle.....                 | June 27-July 3.....  | 1     | -----  |                                     |
| Italy.....                  |                      |       |        |                                     |
| Palermo.....                | Sept. 12-18.....     | 1     | -----  | Mar. 28-May 8, 1926: Cases, 3.      |
| Japan.....                  |                      |       |        | Mar. 28-May 29, 1926: Cases, 37.    |
| Latvia.....                 |                      |       |        | May 1-June 30, 1926: Cases, 19.     |
|                             |                      |       |        | Aug. 1-31, 1926: Cases, 2.          |
| Lithuania.....              |                      |       |        | Mar. 1-June 30, 1926: Cases, 199;   |
|                             |                      |       |        | deaths, 22. July 1-Aug. 31,         |
|                             |                      |       |        | 1926: Cases, 23.                    |
|                             |                      |       |        | Feb. 1-June 30, 1926: Deaths, 189.  |
| Mexico.....                 |                      |       |        |                                     |
| Durango.....                | July 1-31.....       | ----- | 1      |                                     |
| Mexico City.....            | May 16-June 5.....   | 20    | -----  | Including municipalities in Fed-    |
|                             |                      |       |        | eral District.                      |
| Do.....                     | June 13-19.....      | 9     | -----  | Do.                                 |
| Do.....                     | July 25-31.....      | 3     | -----  | Do.                                 |
| Do.....                     | Aug. 15-Oct. 30....  | 69    | -----  | Do.                                 |
| San Luis Potosi.....        | June 13-26.....      | ----- | -----  | Present, city and country.          |
| Morocco.....                |                      |       |        | Mar. 1-June 30, 1926: Cases, 426.   |
| Norway:                     |                      |       |        | July 1-Aug. 31, 1926: Cases, 20.    |
| Stavanger.....              | Sept. 6-12.....      | 1     | -----  |                                     |
| Palestine.....              |                      |       |        |                                     |
| Gaza.....                   | July 6-12.....       | 1     | -----  | Mar. 1-June 30, 1926: Cases, 14;    |
| Haifa.....                  | July 13-Aug. 30....  | 5     | -----  | deaths, 1. Aug. 1-Oct. 25,          |
| Halalal.....                | Aug. 17-23.....      | 1     | -----  | 1926: Cases, 22.                    |
| Jaffa district.....         | June 15-23.....      | 5     | -----  |                                     |
| Do.....                     | Sept. 28-Oct. 25.... | 2     | -----  |                                     |
| Jerusalem.....              | Sept. 14-27.....     | 2     | -----  |                                     |
| Majdal district.....        | July 13-Aug. 2.....  | 2     | -----  |                                     |
| Nazareth district.....      | do.....              | 3     | -----  |                                     |
| Petah Tokvah.....           | Oct. 5-11.....       | 3     | -----  |                                     |
| Tiberias.....               | Aug. 3-9.....        | 1     | -----  |                                     |
| Yavneil.....                | Aug. 17-23.....      | 1     | -----  |                                     |
| Persia:                     |                      |       |        |                                     |
| Teheran.....                | May 23-June 22....   | ----- | 1      |                                     |
| Peru:                       |                      |       |        |                                     |
| Arequipa.....               | Jan. 1-31.....       | ----- | 2      |                                     |
| Poland.....                 |                      |       |        | Mar. 28-June 28, 1926: Cases,       |
|                             |                      |       |        | 1,272; deaths, 85. June 27-         |
|                             |                      |       |        | Sept. 18, 1926: Cases, 294;         |
|                             |                      |       |        | deaths, 22.                         |
| Rumania.....                |                      |       |        | Mar. 1-June 30, 1926: Cases, 899;   |
|                             |                      |       |        | deaths, 83. July 1-31, 1926:        |
|                             |                      |       |        | Cases, 65; deaths, 9.               |
| Russia.....                 |                      |       |        | Jan. 1-Apr. 30, 1926: Cases,        |
|                             |                      |       |        | 18,647.                             |
| Spain.....                  | Jan. 1-June 30.....  | ----- | 13     |                                     |
| Tunisia.....                |                      |       |        | Apr. 1-June 30, 1926: Cases, 110.   |
| Tunis.....                  | June 11-30.....      | 3     | -----  | July 1-Sept. 20, 1926: Cases,       |
|                             |                      |       |        | 101.                                |
| Turkey:                     |                      |       |        |                                     |
| Constantinople.....         | June 16-22.....      | 1     | -----  | Apr. 1-May 31, 1926: Cases, 153;    |
| Union of South Africa.....  |                      |       |        | deaths, 19.                         |
| Do.....                     |                      |       |        | July 1-31, 1926: Cases, 90; deaths, |
|                             |                      |       |        | 17.                                 |

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

## **Reports Received from June 26 to December 3, 1926—Continued**

### **TYPHUS FEVER—Continued**

| Place                       | Date                  | Cases | Deaths | Remarks                                                                                                  |
|-----------------------------|-----------------------|-------|--------|----------------------------------------------------------------------------------------------------------|
| Union of South Africa—Con.  |                       |       |        |                                                                                                          |
| Cape Province.....          | -----                 | ----- | -----  | Apr. 1-June 30, 1926: Cases, 202; deaths, 24, native. July 1-31, 1926: Cases, 58; deaths, 15. Outbreaks. |
| Glengray district.....      | June 27-July 3.....   | ----- | -----  |                                                                                                          |
| Grahamstown.....            | do.....               | 1     | -----  |                                                                                                          |
| Natal.....                  |                       |       |        | Apr. 1-June 30, 1926: Cases, 23. July 1-31, 1926: Cases, 23; deaths, 2.                                  |
| Durban.....                 | July 25-Sept. 18..... | 11    | 1      | Apr. 1-June 30, 1926: Cases, 24; deaths, 4. July 1-31, 1926: Cases, 7.                                   |
| Orange Free State.....      |                       |       |        | Apr. 1-June 30, 1926: Cases, 10; deaths, 5. July 1-31, 1926: Cases, 2. Aug. 15-21, 1926, outbreaks.      |
| Transvaal.....              |                       |       |        | Outbreaks.                                                                                               |
| Johannesburg.....           | Aug. 20-Sept. 4.....  | 1     | -----  | Do.                                                                                                      |
| Walkkerstroom district..... | June 20-26.....       | ----- | -----  | Do.                                                                                                      |
| Wolmaranstad district.....  | do.....               | ----- | -----  | Apr. 15-June 30, 1926: Cases, 48; deaths, 7. July 1-Aug. 31, 1926: Cases, 3; deaths, 1.                  |
| Yugoslavia.....             |                       |       |        |                                                                                                          |
| Zagreb.....                 | May 15-21.....        | 1     | -----  |                                                                                                          |

### **YELLOW FEVER**

|                 |                       |       |       |                                                    |
|-----------------|-----------------------|-------|-------|----------------------------------------------------|
| Brazil.....     | Reported June 26..... | ----- | ----- | Present in interior of Bahia, Pirapora, and Minas. |
| Bahia.....      | May 9-June 26.....    | 10    | 7     |                                                    |
| Do.....         | July 4-10.....        | 1     | ----- |                                                    |
| Gold Coast..... | Apr. 1-June 30.....   | 8     | 4     |                                                    |
| Nigeria.....    | June 1-30.....        | 1     | 1     |                                                    |