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GOOD TEETH.

THE IMPORTANCE OF GOOD TEETH AND THE PREVENTION OF DECAY.¹

Introduction.

Careful examination of many skulls in the National Museum shows clearly the inferiority of the teeth of our present white races as compared with those of ancient times or those of the present who continue to live under primitive conditions. The teeth have responded to the laws of nature just as have other organs and other tissues. The teeth of the present-day Eskimo, for example, are still in the stage of improvement. The Eskimo did not choose the extreme North as his place of abode because of his fondness for the intense cold. Not being of a warlike nature, he gradually worked as far north as man can exist in an endeavor to escape the raids of the more warlike Indian tribes which molested him. Living thus he has had to exist upon the coarsest of foods. Besides this, since his tools and implements have necessarily been few and of simple type, so, naturally, he has often been compelled to use his teeth as both tools and implements. For example, the Eskimo chews his moccasin strings to make them pliable.

As might be expected, therefore, we find in the Eskimo large, strong teeth, and, in addition, we also find large bony structures supporting them; in fact, it is not uncommon to find the bone about the teeth actually thickened or strengthened.

With our white races, whose habits of life are such that little hard usage is demanded of the teeth, we find that the teeth and bony structures have degenerated to a considerable extent, and some persons have assumed that in a comparatively few thousand years our civilized races will no longer possess any dental organs.

A visit to the zoo will convince anyone that throughout the animal kingdom the teeth are found to be closely adapted to the work they have to do. The lion and the tiger eat nothing but meat, which

¹ Revision of the pamphlet "Good Teeth," originally published as "Keep Well Series" No. 13.

requires comparatively little grinding. Hence their long fang teeth and scissorslike molars, which are well adapted for biting and rending. The elephant, on the other hand, eats grass and fruits and tender shoots of trees. So the elephant has big double molars with flat surfaces that rub back and forth like a grinding machine.

Human beings eat both flesh and vegetable foods. Hence we boast of several kinds of teeth, a full set consisting of no less than 12 enameled chisel teeth, 8 sharp tools with 2 points apiece, and 12 solid molars for grinding purposes.

The chisels are the "incisors" and the "canine" or "cuspid" teeth; the double-pointed tools are called "bicuspids"; and the grinders are the "molars" in the back of your mouth. We *cut* our food with the "incisors," "canines," and "bicuspids." The tongue carries it back in the mouth, where it is finally *ground* to fine bits by the "molars."

How Teeth Grow.

When the baby comes into the world it is apparently toothless. Nevertheless, at this time the first teeth are practically completely formed, lying beneath the gums. In fact, under these first teeth there are already the beginnings of the permanent teeth. It needs no lengthy explanations to prove that these teeth can not develop as they should if the body is not supplied with a sufficient amount of the necessary building material. Hence, in the food for the child we should look especially to that part which builds bony structure, of which the tooth is a type. The two most important of these are phosphates and lime; and for the growing child there is no better source of these important elements than milk—mother's milk in infancy and clean cow's milk later. After infancy the diet of every child should include a glass of milk with each meal, and in addition to this there should be other sources of mineral salts, such as fruits, green vegetables, and pure water.

Teething in a healthy child is itself a normal function. It is only when associated with outside disturbances, especially with those due to indigestion or other abnormal conditions, that it may become a source of serious trouble, or when the teeth grow faster than the overlying tissues are absorbed to make room for them. There may then ensue sometimes very serious disturbances from the pressure of the tense and swollen gum on the coming crown underneath, which may, in some cases, be at once relieved by lancing the gum.

Sometime, about the end of the sixth month, if the baby has been thriving normally, the first teeth, usually the low front ones, that were lodged in baby's little jaws when it was born, will appear, and these will be followed at more or less regular intervals by the upper "incisors," then the "back teeth," and lastly usually by the "cuspid,"

or, as they are popularly called, the "stomach" and the "eye" teeth. The following gives about the time when these teeth usually break through the gums:

- Two lower front teeth, at 5 to 7 months.
- Two upper front teeth, at 6 to 8 months.
- Two more lower front teeth, at 7 to 9 months.
- Two more upper front teeth, at 8 to 10 months.
- Four back (molar) teeth, one on each side of each jaw, at 10 to 14 months.

Four more molar teeth, back of the others, at about 2 years.

Four cuspids ("eye" and "stomach" teeth) at 2 to 2½ years.

Every tooth, as it comes into place, is a milestone that marks another step in the child's development. It will not be until the cutting of all of its first full set of teeth has been completed that the mother may feel at liberty to give the child hard solid food.

From what has already been said concerning the development of the teeth through usage, it is clear that food should be presented in such form that it will require chewing. For this reason the diet should include a certain amount of coarse material designed especially to exercise the teeth. Coarse whole-grained breads, hard tack, baked potatoes eaten with their jackets on, fresh apples; these and similar articles included in the diet will do much to insure good teeth.

THE TEMPORARY (OR "MILK") TEETH.

When the temporary teeth begin to appear, do not get the idea so prevalent, that as they are only "temporary" teeth their preservation is not of much consequence. *It is of supreme consequence.* Their presence in the mouth up to the very moment their successors are ready to take their place is absolutely essential. Their premature loss may be followed by a train of evils—imperfect chewing, poor digestion, irregularities of the second set of teeth, distorted features, and frequently severe suffering from toothache and sleepless nights, which if long continued may induce permanent nervous affections.

Since the care of the first set of teeth has such an important bearing on the child's health, and as these teeth so easily and rapidly become injured when neglected, it must be one of the mother's duties to train the little one to keep its mouth clean. Cleanliness is the key to the proper care of mouth and teeth.

The mother should also get the little one into the habit of going to the dentist frequently for careful examination. This will go far toward preventing decay and will also lead to detection of decay before much harm has been done. Best of all, this will restrict the dentist's services to easy and painless operations, so that the child will have no fear of dentistry.

THE FIRST OR "SIX-YEAR" MOLAR.

The first, or as it is often called, the six-year, molar tooth differs from the others in many points. Not only is this the first of the permanent teeth to make its appearance, but it is the largest of the teeth. It differs from the teeth that have thus far appeared, in that it is not replaced by any other tooth and it does not replace another. However, this tooth is to play a very important part in the mouth, as it must sustain the stress of chewing during the period in which the temporary teeth are being replaced by the permanent teeth, and it also largely determines the position of the permanent teeth which follow, and, therefore, the shape of the jaw and the subsequent appearance of the child.

It is clear that the loss of such a molar or the loss of its use through disease or bad position may have serious results. Appearing, as it does, about the sixth year (giving it its name, "six-year molar"), it takes its place behind the temporary teeth without any interference and is usually mistaken for one of the temporary teeth and is neglected upon the supposition that it will soon be lost or extracted anyway. Be sure, therefore, to watch for the appearance of the "six-year molar," and when it appears, the sixth tooth back counting from the front center, care for it as the most precious gem in the whole set. It is not only the chief grinder at this time, but on its proper location depends the regularity of the second set, as well as the proper development of the features.

OTHER PERMANENT TEETH.

As the second teeth develop and begin to take their place, be especially careful that the first teeth are removed neither too early nor too late. The greatest number of first molars are lost from one or two causes: Either the parent fails to recognize this important tooth as a permanent tooth, or else the fear of the dental chair on the part of the child is such that an early treatment will not be obtained. Normally, these will come up exactly under the teeth they are to supplant, and the roots of the temporary teeth will be gradually absorbed away in front of the advancing permanent teeth, until nothing but the crowns will be left hanging to the gums, to drop out in time of their own accord. Sometimes, however, the permanent tooth may start to emerge either inside or outside the arch. The root of the temporary tooth then fails to be absorbed, and it is an obstruction which must be removed before the second tooth has been forced out of line. Hence, special attention should be given to the teeth at this time. So important is this that the child should be under the repeated supervision of a competent dentist during this entire period.

TIME FOR PERMANENT TEETH.

- Four first molars, one on each side of each jaw, 5 to 7 years.
- Two lower front teeth, 5 to 7 years.
- Two upper front teeth, 6 to 8 years.
- Two more upper front teeth and two more lower front teeth, 6 to 8 years.
- Four bicuspids, two upper and two lower, 8 to 10 years.
- Two "eye" and two "stomach," 9 to 12 years.
- Two upper and two lower second molars, 12 to 14 years.
- Two upper and two lower third molars, 17 to 25 years.

Care of the Teeth.

In addition to careful attention to proper food in order to build strong and healthy teeth, it is important to make sure that everything is done to prevent decay of the teeth.

Decay of the teeth, spoken of as "dental caries," is caused by the action of germs (bacteria) which lodge upon the less exposed parts of a tooth. As a result of their growth the tooth structure is softened, allowing the succeeding generations of bacteria to penetrate further into the tissues of the tooth.

It will be noticed that decay usually begins either in the little grooves upon the surface used in chewing, but which because of their depth are not well scoured by the food in chewing, or else at the point where one tooth adjoins another. This point also fails to receive the scouring which the more exposed parts of a tooth receives.

In some of the ancient skulls examined it was found that the surfaces which made contact with other teeth in the same jaw were highly polished by the slight individual motion of each tooth in its socket as hard pressure was brought to bear upon it and it was thus rubbed against its neighbor. Therefore, to reduce or prevent decay of the teeth we must work along two lines, (1) to polish all surfaces of the teeth as far as possible, and (2) to reduce the number of bacteria to a minimum.

HOW TO BRUSH THE TEETH.

Smearing the nails with clay or vaseline and endeavoring to cleanse them with an old toothbrush will enable one to form an opinion as to the most effective method of brushing the teeth. Brushing across the nails will leave material along the sides of each nail; brushing up and down the nail will leave the area about the root of the nail uncleansed; but if the brush be used in a rotary manner, the bristles describing a small circle upon the nail, it will be found that all the material will be removed. This motion is to be recommended in brushing one's teeth upon the surface next to the lips and cheek.

For the inner or tongue side, the brush is used as one would use a hoe, the rotary motion being impracticable, but in using this motion the brush should not be pushed back, as this will tend to carry food debris and germs beneath the gum margins, which is the thing most to be avoided. The stroke begins up on the gum and moves in the direction of the main axis of the tooth toward the tip or masticating surface.

For the masticating surface a pulling and pushing motion backward and forward is recommended.

If the gums bleed when the teeth are brushed, some abnormal condition exists, and a competent dentist should at once be consulted. A healthy gum is not easily injured.

A thorough rinsing of the mouth should follow to remove such material as has been dislodged by the previous processes.

CLEANING BETWEEN THE TEETH.

The use of a toothpick is generally to be condemned, as in its use many persons injure the delicate gum tissue which extends in a crescent-shaped mass between the teeth. The preservation of this tissue is very desirable. Dental floss is very valuable in cleansing the surfaces between the teeth, but care should be taken in its use. It should not be held tight between the fingers and forced through between the teeth. Such method allows the floss to snap through with much force, much like the action of a bowstring when released. Thus used dental floss will cause serious injury to the gums. To use floss with benefit draw it carefully through between the teeth with a pulling motion and when it is freely movable draw it carefully back and forth over all the surfaces between the teeth, but do not force it beneath the gum margin.

TOOTH POWDERS, PASTES, AND OTHER DENTIFRICES.

The use of a tooth powder, tooth paste, or other dentifrice is desirable, and there is no particular choice in the selection of one except that it should not be gritty. In this case it would be too hard for continuous use; there are very few, if any, which can be said to be harmful. Ordinary lime water is excellent for cleaning the teeth, for it dissolves the mucous film which often covers the teeth.

FREQUENCY OF BRUSHING THE TEETH.

The teeth should be carefully brushed after each meal. When this is impracticable, the teeth should at least be brushed on arising in the morning and before retiring at night, and a thorough rinsing of the mouth and gargling of the throat should be practiced after each meal.

CLEANING THE GUMS.

The gums may also be cleansed with the brush, but not with as hard usage as when polishing the teeth. Regular brushing of the gums when properly performed will not injure them unless they are diseased. If the gums bleed a dentist should be consulted at once.

REMOVING GREEN STAIN FROM TEETH.

Many persons become discouraged because they are unable by such measures as are here recommended to remove the green stain that sometimes appears about the necks of the teeth. This is especially noticed in the mouths of children and requires professional skill to remove. Once the stain has been carefully removed and the teeth kept well polished it becomes possible to keep the stain from re-appearing. It is purely a vegetable growth and harmless unless allowed to remain too long, in which case the enamel will be found to be softened or "decalcified" beneath it.

Tartar Deposits.

The first sign of tartar is a slight roughness, felt usually on the inside of the lower front teeth. This is caused by deposits from the saliva of a hard, chalky substance. If you find that your teeth have tartar deposits, go immediately to your dentist and have him remove the deposits and give the teeth a thorough cleaning and polishing. The unclean condition of the mouth resulting from tartar deposits is a common cause of "bad breath."

Pyorrhea.

An accumulation of tartar where the teeth join the gums is a contributing cause, but not the only cause, of pyorrhea, or Rigg's disease. The gums become irritated and infected by disease-producing germs, the tissues are broken down, and pus forms. Unless the pyorrhea sufferer is prompt in putting his case in the hands of a dentist the infection continues, rapidly dissolving the soft bone surrounding the teeth, which is called the alveolar process, and destroying the attachment of the soft tissues of the gum to the teeth. In severe cases the teeth become loose and eventually are lost.

There is no dental disease in the treatment of which it is so important for the dentist to have the hearty cooperation and support of the patient as in the treatment of pyorrhea. No medicine has ever been suggested which will cure pyorrhea, and the sooner this fact is recognized by both dentist and patient the better for all concerned. The only known remedy is the thorough removal of all irritating substances of whatever nature and the polishing of all

exposed tooth surfaces by the dentist, and the subsequent proper use of tooth brush, powder, or paste to keep the teeth and gums in a healthy condition.

Patients who have a tendency to pyorrhea should return to their dentist for examination three or four times a year.

Neglected Teeth Cause Serious Illness.

Scientific men all over the world vie with each other in seeking the cause of the various diseases afflicting mankind. In this field of exploration the microscope and the X ray have proved of inestimable value.

It is only recently that the teeth and mouth have been suspected of being a source of a number of serious infectious diseases, especially diseases of the heart, blood, kidney, and joints. The development of X-ray photography, particularly the celluloid film, which has made the making of X-ray pictures of the teeth most convenient, has shown infected roots of teeth to be the cause of many obscure "rheumatic" and other joint troubles.

All modern up-to-date dentists now make use of X-ray pictures whenever they suspect any trouble with the roots of the teeth. Not only the dentist, but the physician as well, has been astonished at what these pictures have revealed to him.

Often they show that pus is present about the neck of the teeth, and that there are pockets extending down toward the roots which hold large quantities of putrid material. The discharge of poison and germs from these hidden abscesses at the roots of the teeth and the consequent absorption from these and other local foci—as from diseased tonsils—show a very strong causative relation, if not the real cause of, many hitherto obscure ill-defined illnesses.

Certainly not all rheumatic and systemic diseases are due to pus around the necks of the teeth, nor to concealed abscesses at their roots, nor yet to tonsillar infections. Yet it is now strongly suspected that such mouth infections may often be the cause, or at least a contributing cause, of many diseases, such as tonsillitis, rheumatism, St. Vitus's dance, certain forms of heart and kidney diseases, and obscure stomach ailments.

EXTENT OF RURAL HEALTH SERVICE IN THE UNITED STATES.

RURAL COMMUNITIES WITH LOCAL HEALTH SERVICE UNDER ADMINISTRATION OF WHOLE-TIME COUNTY OR DISTRICT HEALTH OFFICERS.

According to data obtained by the Rural Sanitation Office of the Public Health Service from the health departments of the States the following (Table I) is a list, by States, of counties (or districts)

in which the rural sections thereof on January 1, 1920 and 1921, respectively, were provided with local health service under the administration of whole-time county or district health officers:

TABLE I.—List of counties, or districts, in which, on Jan. 1, 1920 and 1921, respectively, rural sections were provided with local health service under whole-time health officers.

ALABAMA.		KENTUCKY.	
1920	1921	1920	1921
Calhoun. Colbert. Etowah. Etowah. Jefferson. Madison. Montgomery. Pike. Sumter. Talladega. Tuscaloosa. Walker.	Baldwin. Calhoun. Colbert. Etowah. Hale. Jefferson. Lauderdale. Madison. Mobile. Montgomery. Morgan. Pike. Sumter. Talladega. Tuscaloosa. Walker.	Mason.	Boyd. Davies. Fulton. Harlan. Jefferson. Mason. Muhlenberg. Scott.
ARKANSAS.		LOUISIANA.	
Sebastian.		Rapides. ¹	Rapides. ¹
CALIFORNIA.		MICHIGAN	
Los Angeles.		St. Clair.	
GEORGIA.		MISSISSIPPI.	
Baldwin. Bartow. Cobb. Colquitt. Dougherty. Floyd. Glynn. Hart. Laurens. Lowndes. Sumter. Tift. Thomas. Troup. Walker. Worth.	Baldwin. Bartow. Brooks. Clarke. Cobb. Decatur. Dougherty. Floyd. Glynn. Hall. Laurens. Lowndes. Sumter. Thomas. Troup. Walker. Worth.	Grenada. Harrison. Lee. Monroe Pike.	Bolivar. Harrison. Jones. Lee.
KANSAS.		MISSOURI.	
Butler. Cherokee. Ford. Geary. Marion.	Butler. Cherokee. Ford. Geary. Marion.		Greene.
		MONTANA.	
		Missoula. Yellowstone.	Cascade. Missoula. Yellowstone.
		NEW MEXICO.	
			Bernalillo. Chaves. San Miguel. Santa Fe. Union.
		NEW YORK.	
		Lake George. ²	

¹ Parish.

² District.

TABLE I.—List of counties, or districts, in which, on Jan. 1, 1920 and 1921, respectively, rural sections were provided with local health service under whole-time health officers—Continued.

NORTH CAROLINA.		SOUTH CAROLINA.	
1920	1921	1920	1921
Cabarrus. Cumberland. Davidson. Durham. Edgecombe. Forsythe. Granville. Guilford. Halifax. New Hanover. Northampton. Pitt. Robeson. Rowan. Surry. Wake. Wilson.	Beaufort. Buncombe. Bertie. Cabarrus. Chatham. Cumberland. Davidson. Durham. Edgecombe. Forsythe. Granville. Halifax. Lenoir. New Hanover. Northampton. Pitt. Robeson. Rowan. Sampson. Surry. Vance. Wake. Wayne. Wilkes. Wilson.	Calhoun. Darlington. Fairfield. Lee. Newberry. Orangeburg.	Calhoun. Charleston. Cherokee. Darlington. Fairfield. Lee. Newberry. Orangeburg.
		TENNESSEE.	
		Hamilton.	
		TEXAS.	
		Bell. Jefferson. Tarrant. Wichita. Williamson.	Bell. Dallas. Jefferson. Tarrant. Wichita. Williamson.
OHIO.		VERMONT. ¹	
Allen. Ashtabula. Butler. Darke. Hamilton. Harrison. Hocking. Mahoning. Medina. Montgomery. Muskingum. Sandusky. Scioto. Shelby. Stark. Summit.	Allen. Ashtabula. Belmont. Butler. Champaign. Clermont. Crawford. Cuyahoga. Delaware. Fairfield. Hamilton. Henry. Highland. Hocking. Lake. Lorain. Lucas. Mahoning. Marion. Medina. Meigs. Miami. Monroe. Montgomery. Muskingum. Noble. Paulding. Sandusky. Scioto. Seneca. Shelby. Stark. Summit. Trumbull. Union. Washington.	First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth.	First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth.
		VIRGINIA.	
		Arlington. Augusta. Fairfax. Fauquier. Pittsylvania. Prince William.	Albemarle. Arlington. Augusta. Clarke. Fairfax. Fauquier. Halifax. Henry. Norfolk. Tazewell.
		WASHINGTON.	
		Yakima.	King. Spokane. Walla Walla. Yakima.
OKLAHOMA.		WEST VIRGINIA.	
Ottawa.	Ottawa.		Greenbrier.

¹ Districts.

Résumé of Table I.

State.	Number of counties.		In-crease or de-crease, 1921.	State.	Number of counties.		In-crease or de-crease, 1921.
	1920	1921			1920	1921	
Alabama.....	12	16	+4	North Carolina.....	17	25	+ 8
Arkansas.....	1	0	-1	Ohio.....	16	36	+20
California.....	1	0	-1	Oklahoma.....	1	1	.....
Georgia.....	16	17	+1	South Carolina.....	6	8	+ 2
Kansas.....	5	5	.....	Tennessee.....	1	0	- 1
Kentucky.....	1	8	+7	Texas.....	5	6	+ 1
Louisiana.....	1	1	.....	Vermont.....	10	10	.....
Michigan.....	1	0	-1	Virginia.....	6	10	+ 4
Mississippi.....	5	4	-1	Washington.....	1	4	+ 3
Missouri.....	0	1	+1	West Virginia.....	0	1	+ 1
Montana.....	2	3	+1				
New Mexico.....	0	5	+5	Total.....	109	161	+52
New York.....	1	0	-1				

Though as yet whole-time local health officers performing rural health work are engaged in but a small proportion of the 3,065 counties or equivalent divisions in the continental United States, the number (161) serving at the beginning of the calendar year 1921 is, in view of the fact that the first position of whole-time county health officer in this country was not established until 1911 (in Yakima County, Wash.), an indication of progress in this vitally important field. The net increase in number (52) within the calendar year 1920, notwithstanding the general economic depression, is significant of the developing appreciation by our rural communities of the relative value of whole-time local health service.

The following (Table II) presents, by States, the percentage of rural population having on January 1, 1921, local health service under the direction of whole-time county or district health officers:

TABLE II.—Percentage of rural population having, on Jan. 1, 1921, local health service under whole-time county or district health officers.

State.	Rural popu-lation.	Rural popu-lation with local health service under direction of whole-time health officer.	Percentage of rural population with local health service under direction of whole-time health officer.
Alabama.....	1, 838, 857	570, 598	31. 03
Arizona.....	216, 376	0	0
Arkansas.....	1, 461, 707	0	0
California.....	1, 095, 132	0	0
Colorado.....	496, 370	0	0
Connecticut.....	444, 262	0	0
Delaware.....	102, 236	0	0
Florida.....	612, 645	0	0
Georgia.....	2, 167, 973	336, 107	15. 50
Idaho.....	312, 829	0	0
Illinois.....	2, 079, 602	0	0
Indiana.....	1, 447, 535	0	0
Iowa.....	1, 628, 626	0	0
Kansas.....	1, 151, 293	88, 816	7. 71
Kentucky.....	1, 783, 087	169, 310	9. 49
Louisiana.....	1, 170, 346	41, 934	3. 58

TABLE II.—Percentage of rural population having, on Jan. 1, 1921, local health service under whole-time county or district health officers—Continued.

State.	Rural population.	Rural population with local health service under direction of whole-time health officer.	Percentage of rural population with local health service under direction of whole-time health officer.
Maine.....	468,445	0	0
Maryland.....	580,239	0	0
Massachusetts.....	202,108	0	0
Michigan.....	1,426,852	0	0
Minnesota.....	1,335,532	0	0
Mississippi.....	1,550,497	115,875	7.47
Missouri.....	1,817,152	29,067	1.59
Montana.....	376,878	40,588	10.77
Nebraska.....	891,066	0	0
Nevada.....	62,153	0	0
New Hampshire.....	163,322	0	0
New Jersey.....	673,611	0	0
New Mexico.....	235,330	58,875	19.93
New York.....	1,794,985	0	0
North Carolina.....	2,068,753	715,390	34.58
North Dakota.....	557,446	0	0
Ohio.....	2,082,258	944,177	45.35
Oklahoma.....	1,488,803	19,435	1.31
Oregon.....	392,370	0	0
Pennsylvania.....	3,112,202	0	0
Rhode Island.....	15,217	0	0
South Carolina.....	1,359,737	253,476	18.24
South Dakota.....	531,675	0	0
Tennessee.....	1,726,659	0	0
Texas.....	3,150,539	188,138	5.97
Utah.....	233,812	0	0
Vermont.....	242,452	242,452	100
Virginia.....	1,635,303	253,023	15.47
Washington.....	607,886	151,949	24.99
West Virginia.....	1,094,084	26,242	2.39
Wisconsin.....	1,387,499	0	0
Wyoming.....	137,054	0	0
Total.....	51,394,295	4,245,482	8.25

The figures in this compilation, indicating that only 8.26 per cent of our rural population are provided with health service which even approaches adequacy, should be a matter of serious concern to all persons interested in our national welfare.

A NOTE ON THE NATURAL IMMUNITY OF WILD RATS TO PLAGUE.

By R. R. SPENCER, Passed Assistant Surgeon, United States Public Health Service.

That a certain number of rats in the wild state possess natural immunity to bubonic plague is very certain. However, the approximate percentage of immunes has not been made clear, although several investigators have inoculated a series of wild rats to determine it. Unfortunately, the rodents so used were trapped in a known infected area or where a plague epizootic had recently occurred. The Indian Plague Commission,¹ using both the species *M.*

¹ Jour. of Hyg., Sept., 1906.

norvegicus and *M. rattus* from Bombay, showed that out of 580 rats experimentally inoculated 341, or 59 per cent, were alive after 14 days. These rats withstood the rubbing on scarified surfaces of emulsions of spleens of rats which had died of acute plague. They further showed that when inoculated with $\frac{1}{2}$ to $\frac{1}{10}$ agar tube of a culture, 3.7 per cent were immune; using $\frac{1}{15}$ to $\frac{1}{20}$ agar tube, 4.4 per cent were immune, and using $\frac{1}{100}$ to $\frac{1}{250}$ agar tube, 10.5 per cent were immune.

During the San Francisco plague epidemic, McCoy² inoculated rats cutaneously with tissue containing large numbers of *B. pestis* from plague-infected human beings, rats, or squirrels. About 15 per cent of small animals and about 50 per cent of large animals were found to be immune. It was thought that these rats had not been previously exposed to infection.

The following experiment was carried out during the fall of 1920, when various consignments of live rats were received at the plague laboratory at Pensacola, Fla., from Mobile, Ala. Mobile was selected because a careful post-mortem examination of over 4,200 rats had been made a few months before without finding a trace of plague infection, and also because no human cases have ever been reported from that port.

As shipments of rats were received, the animals were fed and permitted to rest for about 24 hours. Usually on the second day they were inoculated with plague. In all, 434 such rats were inoculated. Only 2 of these rats were of the species *M. rattus*; the remainder were *M. norvegicus*. Both of the species *M. rattus* succumbed to plague.

The cutaneous inoculations were from tissues of rats or guinea pigs dying of plague, and contained large numbers of organisms. Subcutaneous inoculations were usually from a 48-hour broth culture of *B. pestis*, using one-half cubic centimeter of a 1 : 10 and sometimes 1 : 20 dilution, depending upon the amount of growth in the tube. All rodents tabulated as having acute plague showed at least two of the five cardinal symptoms and the presence of morphologically typical organisms in the smears. All rats surviving 14 days or longer were killed and examined for evidence of plague.

² The Rat and its Relation to the Public Health. Public Health Bulletin No. 30. 1910.

Results of inoculating rodents with B. pestis.

	Number.	Per cent.
CUTANEOUS INOCULATION.		
Acute plague.....	20	35.1
Resolving or chronic plague lesions.....	6	10.5
Negative for plague.....	25	43.8
Eaten or destroyed.....	6	10.5
Total rodents inoculated cutaneously.....	57	
SUBCUTANEOUS INOCULATION.		
Acute plague.....	204	54.1
Resolving or chronic plague lesions.....	31	8.2
Negative for plague.....	114	30.2
Eaten or destroyed.....	28	7.4
Total rodents inoculated subcutaneously.....	377	
CUTANEOUS AND SUBCUTANEOUS INOCULATION.		
Acute plague.....	224	51.6
Resolving or chronic plague lesions (13 died, 24 killed).....	37	8.6
Negative for plague.....	139	32.0
No diagnosis (eaten or destroyed).....	34	7.8
Total rodents inoculated.....	434	

RESULTS OF INOCULATIONS.

Cutaneous inoculations with plague, of 57 rats from a noninfected territory, showed 43.8 per cent to be immune.

Subcutaneous inoculation with plague, of 377 rats from a non-infected locality, showed 30.2 per cent to be immune.

A total of 434 rodents from a noninfected locality showed 32 per cent to be immune.

CONCLUSION.

A very considerable percentage of the wild *M. norvegicus* from a noninfected locality has been found to be immune to plague.

VITAL STATISTICS, ENGLAND AND WALES, 1920.

The following statements are taken from the "Quarterly Return of Marriages, Births, and Deaths Registered in England and Wales" (No. 288), issued by the Registrar General. The figures given are provisional and may differ slightly from revised figures to be presented later.

"According to the quarterly returns furnished by local registrars, 957,994 births and 466,213 deaths were registered in England and Wales in the year 1920. The natural increase of population, by excess of births over deaths, was, therefore, 491,781, the average annual increase in the preceding five years having been 187,625. This statement excludes all war deaths except those registered in this country. The number of persons married during the year was 759,316.

"The numbers of births and of marriages are the highest ever recorded, while the number of deaths is the lowest since 1862, when the population was only about 20,000,000. Natural increase also was the greatest on record.

"The marriage rate in England and Wales during the year 1920 was 20.1 per 1,000 of the estimated population in the middle of the year, the birth rate 25.4 per 1,000, and the death rate 12.4 per 1,000. Infant mortality was 80 per 1,000 registered births. The marriage rate was higher and the total death rate and infant mortality lower than in any other year on record. The birth rate was the highest since 1909."

Vital statistics, England and Wales, 1920.

	Number.	Per 1,000 population.		Number.	Per 1,000 population.
Population (in thousands).....	37,610	.....	Deaths from—		
Marriages.....	379,658	.....	Measles.....	7,057	0.19
Births.....	957,994	25.4	Scarlet fever.....	1,417	.04
Deaths:			Whooping cough.....	4,259	.11
Total.....	466,213	12.4	Diphtheria.....	5,523	.15
Infants under one year of age	76,736	(¹)	Diarrhea and enteritis (under 2 years).....	7,975	.....
Persons aged 65 years and upward.....	156,821	.....	Influenza.....	10,508	.28
Deaths from—			Violence.....	17,915	.48
Typhoid fever.....	520	.01	Inquest cases.....	30,995	.....
Smallpox.....	29	.00			

¹ 80.2 per 1,000 births.

PRINCIPAL CAUSES OF DEATH COMPARED.

DEATH RATES FOR PRINCIPAL CAUSES, AUGUST AND SEPTEMBER, 1921, SEPTEMBER AND YEAR, 1920, AND COMPARISON BY COLOR FOR FIRST NINE MONTHS OF 1919, 1920, AND 1921, IN A GROUP OF INSURED PERSONS.

The accompanying tables are taken from the Statistical Bulletin of the Metropolitan Life Insurance Co. for October, 1921. They present the mortality data of the industrial department of the company for August and September, 1921, September and year, 1920, and compare the death rates by color for the first nine months of the years 1919, 1920, and 1921.

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

The gross death rate for this group for September, 1921, is lower than that for August, but slightly higher than that for September, 1920. The specific rates for certain diseases, however, show a decided increase over those for August. The rate for typhoid fever was 32 per cent higher in September than in August, and 19 per cent higher than in September, 1920. The diphtheria rate was also higher than in August, 1921, and September, 1920, although lower than that for the year 1920. It was stated that between August 22 and October 8, 1921, 70 deaths from acute poliomyelitis occurred in this group, as against 26 during the corresponding period of 1920.

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

[Industrial department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.			
	September, 1921.	August, 1921.	September, 1920.	Year 1920.
Total, all causes.....	791.6	809.0	782.7	989.4
Typhoid fever.....	13.6	10.3	11.4	6.7
Measles.....	.5	1.1	1.4	8.5
Scarlet fever.....	3.3	3.7	2.0	6.0
Whooping cough.....	3.6	4.3	5.0	6.6
Diphtheria.....	17.7	14.3	12.5	22.1
Influenza.....	2.9	2.5	4.4	53.5
Tuberculosis (all forms).....	100.5	113.5	116.1	137.9
Cancer.....	72.2	72.3	69.3	69.8
Meningitis (all forms).....	4.7	6.2	5.6	5.2
Cerebral hemorrhage.....	52.2	48.0	49.7	61.3
Organic diseases of the heart.....	98.3	100.9	93.9	117.0
Pneumonia (all forms).....	32.7	26.8	27.3	106.1
Other respiratory diseases.....	11.5	9.9	11.8	18.2
Diarrhea and enteritis.....	24.2	31.3	29.0	15.8
Bright's disease.....	63.6	60.7	66.2	70.8
Puerperal state.....	15.9	16.3	16.6	23.0
Suicides.....	7.0	8.0	5.5	6.1
Homicides.....	5.8	6.3	8.8	6.8
Other external causes (excluding suicides and homicides).....	60.5	70.2	61.4	60.1
Traumatism by automobile.....	14.1	13.8	14.0	11.1
All other causes.....	200.2	202.5	184.9	188.9

Death rates (annual basis) per 100,000 persons exposed, for principal causes, compared by color, for first 9 months of 1919, 1920, and 1921.

[Industrial department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 persons exposed from January to September.					
	White.			Colored.		
	1921	1920	1919	1921	1920	1919
Total, all causes.....	799.9	981.3	1,051.8	1,322.1	1,577.0	1,656.9
Typhoid fever.....	5.3	5.4	5.9	12.1	11.1	13.3
Measles.....	4.1	11.2	4.0	1.9	4.6	2.4
Scarlet fever.....	8.1	6.4	4.1	2.6	.7	.3
Whooping cough.....	4.2	7.1	3.3	7.5	8.8	3.0
Diphtheria and croup.....	22.7	21.3	18.9	5.4	5.3	5.8
Influenza.....	7.9	65.0	120.3	18.3	104.4	152.6
Tuberculosis, all forms.....	99.3	124.9	138.0	272.3	305.0	329.4
Tuberculosis of lungs.....	88.7	112.1	124.4	248.2	279.0	298.8
Tuberculous meningitis.....	5.0	6.5	7.0	6.4	6.5	10.3
Other forms of tuberculosis.....	5.5	6.3	6.6	17.7	19.4	20.4
Meningitis (total).....	5.2	6.3	7.4	5.0	7.5	5.2
Cerebrospinal meningitis.....	3.0	5.3	5.9	3.2	6.4	4.7
Cerebral hemorrhage; apoplexy.....	55.7	58.2	54.9	86.4	88.3	87.4
Organic diseases of heart.....	106.9	115.1	107.7	168.0	179.7	180.8
Total respiratory diseases.....	77.3	135.4	146.2	126.1	222.0	235.1
Bronchitis.....	5.2	8.9	8.5	10.4	12.5	11.7
Bronchopneumonia.....	23.5	39.7	39.4	31.3	47.4	49.1
Pneumonia, lobar and undefined.....	40.8	76.2	89.7	72.7	147.4	159.5
Other diseases of respiratory system.....	7.9	10.6	8.6	11.6	14.6	14.8
Diarrhea and enteritis.....	15.6	15.9	16.6	14.9	15.1	19.6
Under 2 years.....	6.4	7.3	7.8	3.8	4.9	6.5
2 years and over.....	9.1	8.6	8.8	11.1	10.2	13.1
Nephritis and Bright's disease.....	66.4	74.1	73.9	123.5	132.1	136.3
Total puerperal state.....	19.1	23.7	19.8	27.1	31.2	25.1
Puerperal septicemia.....	8.5	8.1	5.9	11.6	13.1	11.5
Puerperal albuminuria and convulsions.....	4.4	4.9	4.5	7.6	7.1	5.0
Other diseases of puerperal state.....	6.2	10.6	9.4	7.8	11.0	8.7
Total external causes ¹	68.1	69.4	97.5	97.4	93.4	116.4
Suicides.....	7.8	6.3	7.5	5.3	3.8	5.0
Homicides.....	3.4	3.3	3.7	27.2	23.4	32.1
Accidental and unspecified violence ²	56.7	59.3	63.2	64.9	65.9	69.2
Accidental drowning.....	9.6	7.4	(³)	11.1	10.0	(³)
Automobile accidents.....	11.6	10.6	(³)	8.3	6.0	(³)
War deaths.....	.1	.6	23.1	.1	.4	.1
All other and ill-defined causes of death.....	222.9	242.0	233.4	353.7	367.7	344.3

¹ Includes "war deaths."

² Excludes "war deaths."

³ Data unavailable.

DIVISION OF VENEREAL DISEASES, JULY, AUGUST, AND SEPTEMBER, 1921.

During the months of July, August, and September, 1921, 78,410 cases of venereal diseases were reported to the State boards of health, and 39,643 new cases were admitted to the venereal disease clinics.

Venereal disease reports for July, August, and September, 1921—Number of cases reported by the State boards of health, number of admissions to the venereal disease clinics operating under joint control of the United States Public Health Service and State boards of health, and number of treatments of arsphenamine administered.

State.	Cases reported.				Admissions to clinic.				Arsphenamine treatments administered.
	Total cases.	Syphilis.	Gonorrhoea.	Chan-croid.	Total admissions.	Syphilis.	Gonorrhoea.	Chan-croid.	
Alabama.....	304	93	197	14	4,904	3,215	1,532	157	13,135
Arizona ¹									
Arkansas.....	2,495	1,245	1,206	41	963	599	348	16	2,326
California.....	1,761	869	892		1,119	579	523	17	3,353
Colorado.....	738	224	474	30	414	171	219	24	1,211
Connecticut.....	709	476	233		284	129	132	3	1,131
Delaware.....	319	139	148	32	107	41	50	16	193
District of Columbia.....					76	50	25	1	2,285
Florida.....	1,118	584	471	63	816	551	266	59	2,425
Georgia.....	2,943	1,441	1,401	101	1,403	752	585	66	3,909
Idaho.....	166	66	100						
Illinois.....	3,172	989	2,129	54	2,091	970	1,070	51	6,315
Indiana.....	1,546	768	761	17	1,441	656	723	22	5,796
Iowa.....	965	274	675	16	294	155	133	6	1,650
Kansas.....	778	312	445	21	472	288	182	2	2,144
Kentucky.....	7,203	4,842	2,249	112	1,193	663	496	36	5,419
Louisiana.....	2,349	1,091	1,079	179	1,240	666	512	62	3,484
Maine.....	496	214	276	6	80	64	15	1	534
Maryland.....	953	450	471	32	823	314	479	30	2,156
Massachusetts.....	2,060	555	1,505		1,707	819	884	4	9,582
Michigan.....	4,311	1,596	2,681	34	1,538	778	746	14	4,344
Minnesota.....					279	128	151		1,791
Mississippi.....	971	562	348	61	747	512	187	48	1,616
Missouri.....	2,684	961	1,551	152	2,348	937	1,256	105	3,916
Montana.....	180	74	106		10	2	8		50
Nebraska.....	1,648	443	1,105	100	382	150	199	33	1,235
New Hampshire.....	172	51	119	2	110	58	47	5	630
New Jersey.....	1,333	611	681	41	1,023	484	552	7	3,143
New Mexico.....	74	19	53	2	29	12	16	1	47
New York.....	6,841	4,477	2,364		1,683	904	743	36	9,141
North Carolina.....	1,484	573	853	58	517	301	184	32	2,773
North Dakota.....	299	54	237	8	32	13	19		174
Ohio.....	2,042	1,136	856	50	2,631	1,333	1,197	101	7,463
Oklahoma.....	867	412	418	37	299	171	123	5	614
Oregon.....	248	23	219	6	123	65	56	2	145
Pennsylvania.....	5,584	3,495	2,039	50	1,580	825	732	23	6,180
Rhode Island.....	2,676	1,804	867	5	251	115	134	2	1,485
South Carolina.....	2,155	921	1,119	115	1,548	610	823	115	7,758
South Dakota.....	240	59	170	11	20	8	11	1	33
Tennessee.....	1,650	855	730	65	1,326	824	418	84	3,517
Texas.....	8,207	4,537	3,303	367	1,864	1,044	658	162	4,828
Utah.....	247	41	200	6	72	16	33	23	104
Vermont.....	191	88	103		21	17	4		290
Virginia.....	1,552	729	747	76	1,170	675	430	65	4,739
Washington.....					203	95	108		911
West Virginia.....	2,488	941	1,463	84	159	108	47	4	672
Wisconsin.....					254	80	171	3	1,223
Wyoming.....	191	43	145	3	17	9	7	1	24
Total.....	78,410	39,170	37,189	2,051	39,643	20,991	17,207	1,445	133,592

¹ No report received.

TUBERCULOSIS HOSPITAL NOT PERMITTED IN RESIDENTIAL LOCALITY.

On October 3, 1921, the Supreme Court of Michigan affirmed a decree¹ restraining the maintenance of a tuberculosis hospital in a strictly residential district in the city of Kalamazoo. The court stated that "the maintenance of a hospital for the treatment of this communicable disease [tuberculosis] in a strictly residential district can not fail to deprive residents of near-by homes of the comfort, well-being, and enjoyment of their homes to which they are entitled, and this, coupled with their financial loss, justifies an appeal to a court of equity for relief."

DEATHS DURING WEEK ENDED NOV. 5, 1921.

Summary of information received by telegraph from industrial insurance companies for week ended Nov. 5, 1921, and corresponding week, 1920. (From the Weekly Health Index, Nov. 8, 1921, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Nov. 5, 1921.	Corresponding week, 1920.
Policies in force.....	48,140,310	44,984,961
Number of death claims.....	7,921	6,943
Death claims per 1,000 policies in force.....	8.6	8.0

¹Brink et al. v. Shepard, 184 N. W., 404.

Deaths from all causes in certain large cities of the United States during the week ended Nov. 5, 1921, infant mortality, annual death rate, and comparison with corresponding week of preceding years. (From the Weekly Health Index, Nov. 8, 1921, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population July 1, 1921.	Week ended Nov. 5, 1921.		Average annual death rate per 1,000. ³	Deaths under 1 year.		Infant mortality rate, week ended Nov. 5, 1921. ³
		Total deaths.	Death rate. ¹		Week ended Nov. 5, 1921.	Previous year or years. ²	
Akron, Ohio.....	229,195	34	7.7	18.8	10	4	86
Albany, N. Y.....	115,071	28	12.7	C 11.4	7	C 6	157
Atlanta, Ga.....	207,473	51	12.8	C 15.2	4	C 10	.....
Baltimore, Md.....	750,864	185	12.8	A 14.9	33	A 30	93
Birmingham, Ala.....	186,133	47	13.2	A 17.8	9	A 7	.....
Boston, Mass.....	757,634	176	12.1	A 15.6	20	A 38	54
Bridgeport, Conn.....	149,967	30	10.4	A 13.4	4	A 7	50
Buffalo, N. Y.....	519,608	123	12.3	C 14.0	20	C 27	77
Cambridge, Mass.....	110,444	31	14.6	A 13.6	1	A 4	18
Camden, N. J.....	119,672	40	17.4	.....	5	.....	75
Chicago, Ill.....	2,780,655	553	10.4	A 12.2	92	A 91	.....
Cincinnati, Ohio.....	403,418	104	13.4	C 11.3	11	C 8	73
Cleveland, Ohio.....	831,138	161	10.1	C 10.3	31	C 33	83
Columbus, Ohio.....	245,358	59	12.5	C 11.3	5	C 10	58
Dallas, Tex.....	165,282	53	16.7	A 14.4	9	A 5	.....
Dayton, Ohio.....	158,119	23	7.6	C 7.4	5	C 2	82
Denver, Colo.....	263,152	74	14.7	A 13.2	6	.....	.....
Detroit, Mich.....	1,070,450	180	8.8	C 8.5	38	C 47	72
Fall River, Mass.....	120,668	28	12.1	C 13.4	9	C 10	135
Fort Worth, Tex.....	111,423	26	12.2	.....	2	.....	.....
Grand Rapids, Mich.....	141,197	25	9.2	C 10.5	1	C 7	17
Houston, Tex.....	144,340	31	11.2	.....	3	.....	.....
Indianapolis, Ind.....	325,632	73	11.7	C 12.5	5	C 12	39
Jersey City, N. J.....	302,788	76	13.1	C 13.4	10	C 19	69
Kansas City, Kans.....	103,884	13	6.5	C 10.7	0	C 4	0
Kansas City, Mo.....	336,157	107	16.6	C 13.5	11	C 11	.....
Los Angeles, Calif.....	611,921	159	13.5	A 11.1	20	A 10	94
Louisville, Ky.....	236,083	46	10.2	C 10.6	2	C 5	23
Lowell, Mass.....	113,757	28	12.8	A 17.1	7	A 7	113
Memphis, Tenn.....	165,656	67	21.1	C 21.1	8	C 5	.....
Milwaukee, Wis.....	468,386	82	9.1	A 10.6	18	A 16	87
Minneapolis, Minn.....	392,815	63	8.4	C 8.8	11	C 9	63
Nashville, Tenn.....	122,036	38	16.2	C 19.3	5	C 9	.....
New Bedford, Mass.....	125,012	25	10.4	A 15.2	3	A 10	46
New Haven, Conn.....	167,007	38	11.9	C 7.9	5	C 4	60
New Orleans, La.....	394,657	130	17.2	A 21.3	18	A 16	.....
New York, N. Y.....	5,751,867	1,181	10.7	C 10.0	164	C 166	64
Newark, N. J.....	424,885	72	8.8	C 9.5	11	C 14	49
Norfolk, Va.....	121,260	27	11.6	.....	2	.....	35
Oakland, Calif.....	223,472	57	13.1	A 10.4	6	A 6	76
Omaha, Nebr.....	197,066	51	13.5	.....	3	.....	35
Paterson, N. J.....	137,463	25	9.5	.....	2	.....	34
Philadelphia, Pa.....	1,866,212	415	11.6	14.1	53	70	64
Pittsburgh, Pa.....	602,452	162	14.0	C 13.9	30	C 16	106
Portland, Oreg.....	264,859	51	10.0	C 11.2	3	C 6	30
Providence, R. I.....	239,645	66	14.4	C 13.3	11	C 9	89
Richmond, Va.....	175,686	52	15.4	C 11.5	7	C 7	85
Rochester, N. Y.....	305,229	74	12.6	C 13.6	8	C 8	62
St. Louis, Mo.....	786,164	174	11.5	C 11.7	18	C 26	.....
St. Paul, Minn.....	237,781	48	10.5	C 6.2	3	C 2	30
Salt Lake City, Utah.....	121,695	33	14.2	A 10.8	5	.....	77
San Francisco, Calif.....	520,546	139	13.9	C 11.2	9	C 9	52
Seattle, Wash.....	327,227	56	8.9	A 8.5	9	A 6	75
Spokane, Wash.....	104,442	33	16.5	C 10.5	5	C 6	109
Springfield, Mass.....	135,877	21	8.1	C 9.1	3	C 5	45
Syracuse, N. Y.....	177,365	43	12.6	C 11.7	5	C 6	60
Toledo, Ohio.....	253,696	73	15.0	A 14.7	6	A 10	60
Trenton, N. J.....	122,760	30	12.7	A 15.3	6	A 6	91
Washington, D. C.....	454,026	116	13.3	A 15.6	8	A 16	47
Wilmington, Del.....	113,408	21	9.7	C 10.3	3	C 4	.....
Worcester, Mass.....	184,972	41	11.6	C 10.3	4	C 8	43
Yonkers, N. J.....	103,324	21	10.6	A 12.6	2	A 4	45

¹ Annual rate per 1,000 population.

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

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

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

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Nov. 12, 1921.

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

ALABAMA.		Cases.	CALIFORNIA—continued.		Cases.
Chicken pox.....	11	Measles.....	14		
Diphtheria.....	65	Poliomyelitis:			
Hookworm disease.....	26	Fresno County.....	1		
Influenza.....	4	Lemoore.....	1		
Malaria.....	10	Napa County.....	1		
Pellagra.....	7	San Bernardino.....	1		
Pneumonia.....	5	San Francisco.....	1		
Poliomyelitis.....	1	San Joaquin County.....	3		
Scarlet fever.....	43	Sonoma County.....	2		
Smallpox.....	3	Stockton.....	5		
Tuberculosis.....	14	Tehama County.....	2		
Typhoid fever.....	18	Scarlet fever.....	122		
		Smallpox.....	31		
		Typhoid fever.....	13		
ARKANSAS.			COLORADO.		
Chicken pox.....	5		(Exclusive of Denver.)		
Diphtheria.....	20	Diphtheria.....	47		
Hookworm.....	2	Dysentery.....	1		
Influenza.....	2	Influenza.....	1		
Malaria.....	77	Mumps.....	7		
Pellagra.....	6	Pneumonia.....	5		
Scarlet fever.....	16	Poliomyelitis.....	2		
Tuberculosis.....	10	Scarlet fever.....	23		
Typhoid fever.....	9	Septic sore throat.....	1		
Whooping cough.....	2	Smallpox.....	27		
		Tuberculosis.....	127		
		Typhoid fever.....	11		
		Vincent's angina.....	1		
		Whooping cough.....	1		
CALIFORNIA.			DELAWARE.		
Cerebrospinal meningitis:		Diphtheria.....	5		
Alameda County.....	1	Measles.....	1		
Los Angeles.....	1	Pneumonia.....	2		
Monrovia.....	1				
Diphtheria.....	356				
Influenza.....	9				
Lethargic encephalitis:					
San Francisco.....	1				
Stockton.....	1				

DELAWARE—continued.		INDIANA.	
	Cases.		Cases.
Scabies.....	1	Diphtheria.....	277
Scarlet fever.....	11	Poliomyelitis:	
Tuberculosis.....	4	Porter County.....	1
Typhoid fever.....	3	Posey County.....	1
Whooping cough.....	1	Scarlet fever.....	121
		Smallpox.....	6
		Typhoid fever.....	19
FLORIDA.		IOWA.	
Diphtheria.....	12	Diphtheria.....	81
Influenza.....	15	Lethargic encephalitis—Ida Grove.....	1
Malaria.....	33	Poliomyelitis—Moravia.....	1
Pneumonia.....	19	Scarlet fever.....	83
Poliomyelitis.....	2	Smallpox.....	24
Scarlet fever.....	4		
Smallpox.....	1		
Typhoid fever.....	8		
GEORGIA.		KANSAS.	
Chicken pox.....	15	Cerebrospinal meningitis.....	1
Dengue.....	17	Chicken pox.....	43
Diphtheria.....	78	Diphtheria.....	443
Dysentery (bacillary).....	1	Influenza.....	2
Hookworm disease.....	140	Malaria.....	1
Influenza.....	14	Measles.....	2
Malaria.....	13	Mumps.....	6
Pneumonia.....	8	Pneumonia.....	9
Scarlet fever.....	25	Poliomyelitis.....	1
Septic sore throat.....	3	Scarlet fever.....	240
Smallpox.....	11	Smallpox.....	61
Tuberculosis (pulmonary).....	2	Trachoma.....	1
Typhoid fever.....	12	Tuberculosis.....	44
Whooping cough.....	2	Typhoid fever.....	12
		Whooping cough.....	9
ILLINOIS.		LOUISIANA.	
Cerebrospinal meningitis:		Diphtheria.....	27
Blue Island.....	1	Influenza.....	10
Chicago.....	2	Scarlet fever.....	16
East Moline.....	1	Typhoid fever.....	13
Diphtheria:			
Aurora.....	8		
Chicago.....	299		
Cicero.....	17		
Decatur.....	12		
Evanston.....	10		
Havana.....	21		
Mattoon.....	15		
Peoria.....	20		
Streator.....	8		
Scattering.....	289		
Influenza.....	14		
Lethargic encephalitis—Chicago.....	1		
Pneumonia.....	212		
Poliomyelitis:			
Chicago.....	1		
McHenry County—Alden Township.....	1		
Marshall County—Steuben Township.....	1		
Rockford.....	1		
Scarlet fever:			
Chicago.....	135		
Scattering.....	123		
Smallpox.....	6		
Typhoid fever.....	39		
Whooping cough.....	24		
		MAINE.	
		Chicken pox.....	22
		Diphtheria.....	44
		German measles.....	1
		Pneumonia.....	2
		Poliomyelitis.....	1
		Scarlet fever.....	77
		Smallpox.....	1
		Tuberculosis.....	7
		Typhoid fever.....	9
		MARYLAND. ¹	
		Chicken pox.....	45
		Diphtheria.....	55
		Dysentery.....	3
		German measles.....	3
		Influenza.....	13
		Lethargic encephalitis.....	1
		Malaria.....	4
		Measles.....	15
		Mumps.....	7
		Pneumonia (all forms).....	54
		Poliomyelitis.....	2
		Scarlet fever.....	73
		Tuberculosis.....	26
		Typhoid fever.....	21
		Whooping cough.....	21

¹ Week ended Friday.

MASSACHUSETTS.	Cases.
Cerebrospinal meningitis.....	2
Chicken pox.....	117
Conjunctivitis (suppurative).....	7
Diphtheria.....	246
German measles.....	1
Influenza.....	5
Lethargic encephalitis.....	4
Ma'aria.....	1
Measles.....	141
Mumps.....	53
Ophthalmia neonatorum.....	11
Pneumonia (lobar).....	61
Scarlet fever.....	130
Septic sore throat.....	3
Tuberculosis (all forms).....	118
Typhoid fever.....	17
Whooping cough.....	41
MINNESOTA.	
Chicken pox.....	23
Diphtheria:	
Minneapolis.....	63
Scattering.....	43
Measles.....	8
Pneumonia.....	1
Poliomyelitis.....	5
Scarlet fever.....	165
Smallpox.....	30
Tuberculosis.....	40
Typhoid fever.....	7
MISSISSIPPI.	
Diphtheria.....	95
Scarlet fever.....	36
Smallpox.....	9
Typhoid fever.....	28
MISSOURI.	
Chicken pox.....	22
Diphtheria.....	206
Epidemic sore throat.....	14
Influenza.....	3
Measles.....	1
Mumps.....	1
Ophthalmia neonatorum.....	2
Poliomyelitis.....	2
Scarlet fever.....	139
Smallpox.....	84
Tetanus.....	1
Tuberculosis.....	36
Typhoid fever.....	12
Whooping cough.....	14
MONTANA.	
Cerebrospinal meningitis—Devon.....	1
Diphtheria.....	13
Poliomyelitis—Lovejoy.....	1
Scarlet fever.....	10
Smallpox.....	31
Typhoid fever.....	2
NEBRASKA	
Chicken pox.....	17
Diphtheria:	
Omaha.....	47
Scattering.....	27

NEBRASKA—continued.	Cases.
Measles.....	4
Mumps.....	8
Poliomyelitis—Marquette.....	1
Septic sore throat.....	1
Scarlet fever:	
York.....	8
Scattering.....	50
Smallpox.....	7
Tuberculosis.....	2
Typhoid fever.....	4
Whooping cough.....	1
NEW JERSEY.	
Cerebrospinal meningitis.....	2
Chicken pox.....	88
Diphtheria.....	152
Influenza.....	18
Measles.....	70
Paratyphoid fever.....	1
Poliomyelitis.....	2
Scarlet fever.....	129
Smallpox.....	1
Typhoid fever.....	20
Whooping cough.....	33
NEW MEXICO.	
Chicken pox.....	11
Diphtheria.....	35
Pneumonia.....	1
Scarlet fever.....	11
Smallpox.....	2
Trachoma.....	2
Tuberculosis.....	61
Typhoid fever.....	10
Whooping cough.....	1
NEW YORK.	
(Exclusive of New York City.)	
Cerebrospinal meningitis.....	1
Diphtheria.....	354
Influenza.....	19
Measles.....	72
Pneumonia.....	142
Poliomyelitis.....	3
Scarlet fever.....	252
Typhoid fever.....	33
Whooping cough.....	86
NORTH CAROLINA.	
Cerebrospinal meningitis.....	1
Chicken pox.....	28
Diphtheria.....	226
German measles.....	2
Measles.....	3
Poliomyelitis.....	1
Scarlet fever.....	130
Septic sore throat.....	16
Smallpox.....	8
Typhoid fever.....	15
Whooping cough.....	77
OREGON.	
Chicken pox.....	13
Diphtheria:	
Portland.....	88
Scattering.....	6

OREGON—continued.		WASHINGTON—continued.	
	Cases.		Cases.
Mumps.....	3	Poliomyelitis:	
Pneumonia.....	1	Chehalis.....	19
Poliomyelitis:		Grays Harbor County.....	2
Eugene.....	1	King County.....	2
North Bend.....	1	Oroville.....	1
Portland.....	1	Pierce County.....	1
Walla Walla County.....	2	Spokane.....	2
Scarlet fever:		Scarlet fever:	
Portland.....	9	Spokane.....	8
Scattering.....	6	Scattering.....	22
Smallpox:		Smallpox:	
Portland.....	10	Tacoma.....	17
Scattering.....	7	Scattering.....	35
Tuberculosis.....	7	Tuberculosis.....	27
Typhoid fever.....	2	Typhoid fever.....	10
Whooping cough.....	2	Whooping cough.....	13
SOUTH DAKOTA.		WEST VIRGINIA.	
Chicken pox.....	2	Diphtheria:	
Diphtheria.....	37	Clarksburg.....	18
Pneumonia.....	3	Elkins.....	12
Poliomyelitis.....	1	Huntington.....	13
Scarlet fever.....	53	Scattering.....	38
Smallpox.....	17	Scarlet fever.....	22
Tuberculosis.....	3	Smallpox.....	3
TEXAS.		WISCONSIN.	
Diphtheria.....	115	Milwaukee:	
Pellagra.....	7	Chicken pox.....	42
Scarlet fever.....	42	Diphtheria.....	38
Typhoid fever.....	26	German measles.....	1
VERMONT.		Measles.....	1
Chicken pox.....	45	Pneumonia.....	6
Diphtheria.....	8	Scarlet fever.....	24
Measles.....	2	Smallpox.....	2
Mumps.....	7	Tuberculosis.....	9
Poliomyelitis.....	2	Whooping cough.....	11
Scarlet fever.....	43	Scattering:	
Whooping cough.....	6	Chicken pox.....	63
WASHINGTON.		Diphtheria.....	122
Chicken pox.....	67	German measles.....	1
Diphtheria:		Influenza.....	19
Spokane.....	11	Pneumonia.....	2
Scattering.....	17	Poliomyelitis.....	5
Measles.....	4	Scarlet fever.....	136
Mumps.....	8	Smallpox.....	28
		Tuberculosis.....	37
		Typhoid fever.....	24
		Whooping cough.....	18

Delayed Reports for Week Ended Nov. 5, 1921.

CONNECTICUT.		KENTUCKY.	
	Cases.		Cases.
Cerebrospinal meningitis.....	1	Chicken pox.....	11
Chicken pox.....	28	Diphtheria:	
Diphtheria:		Boyle County.....	9
Bridgeport.....	14	Campbell County.....	8
Hartford.....	14	Clark County.....	9
New Britain.....	11	Crittenden County.....	9
Waterbury.....	8	Davies County.....	29
Scattering.....	53	Jefferson County.....	62
Influenza.....	1	Logan County.....	15
Measles:		Todd County.....	13
Rethel.....	13	Warren County.....	12
Coventry.....	36	Scattering.....	72
Hebron.....	10	Influenza.....	14
Williamantic.....	13	Malaria.....	1
Scattering.....	10	Measles.....	11
Mumps.....	11	Pneumonia.....	11
Pneumonia (lobar).....	20	Septic sore throat.....	2
Poliomyelitis.....	1	Scarlet fever:	
Scarlet fever:		Henry County.....	10
Bridgeport.....	8	Scattering.....	34
Wallingford.....	8	Smallpox:	
Scattering.....	40	Fulton County.....	21
Tuberculosis (all forms).....	35	Scattering.....	7
Typhoid fever.....	13	Streptococic sore throat.....	1
Whooping cough.....	31	Tonsillitis.....	12
		Trachoma.....	55
		Tuberculosis:	
		Jefferson County.....	11
		Scattering.....	14
		Typhoid fever.....	22
		Whooping cough.....	5
DISTRICT OF COLUMBIA.			
Chicken pox.....	8		
Diphtheria.....	49		
Influenza.....	1		
Scarlet fever.....	10		
Tuberculosis.....	29		
Whooping cough.....	3		

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Fellgrä.	Pellomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1921.										
District of Columbia (October).....	1	93	4	.....	16	1	8	39	3	17
Florida (October).....	4	102	44	107	8	4	.....	11	12	36
Nebraska (October).....	3	328	1	2	27	.....	28	224	25	41
New York (September).....	29	1,229	50	.....	276	.....	423	707	9	621
Vermont (October).....	.....	51	.....	.....	17	.....	6	160	1	23

RECIPROCAL NOTIFICATION.

Connecticut—October, 1921.

Cases of communicable diseases referred during October, 1921, to other State health departments by department of health of the State of Connecticut.

Disease and locality of notification.	Referred to health authority of—	Why referred.
Diphtheria: East Hampton, Conn...	State department of public health, Boston, Mass.	Patient arrived in East Hampton, Conn., from Springfield, Mass.; onset of disease day of arrival.
New Canaan, Conn.....	State department of health, Albany, N. Y.	Possible diphtheria bacillus carrier left New Canaan, Conn., for New York City.
Typhoid fever: Greenwich, Conn.....	.....do.....	Patient, a resident of Port Chester, N. Y., was admitted to Greenwich Hospital, Conn., for treatment.
Tuberculosis (pulmonary): Greenwich, Conn.....	.....do.....	Patient left Greenwich, Conn., to go to New York City.
Plainfield, Conn.....	State department of public health, Boston, Mass.	Patient was taken ill while visiting Plainfield, Conn., but returned to his home in Attleboro, Mass., before the positive laboratory finding for tuberculosis was made.

SMALLPOX EPIDEMIC.

Kansas City, Mo.

Epidemic smallpox has been reported present in Kansas City, Mo., with the occurrence of 127 cases and 39 deaths during the period October 10–November 10, 1921. It is reported that the majority of the cases are of the confluent or hemorrhagic type.

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921.

ANTHRAX.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Nebraska: Omaha.....	1	.....	Pennsylvania: Philadelphia.....	1	.....

CEREBROSPINAL MENINGITIS.

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

City.	Median for previous years.	Week ended Oct. 29, 1921.		City.	Median for previous years.	Week ended Oct. 29, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
California: Los Angeles.....	0	1	.....	Missouri: Kansas City.....	0	.....	2
Connecticut: Stamford.....	.....	1	.....	St. Louis.....	1	1	.....
Georgia: Atlanta.....	0	.....	1	Nebraska: Grand Island.....	.....	1	1
Illinois: East Chicago.....	0	.....	1	New Jersey: Jersey City.....	0	1	.....
Massachusetts: Boston.....	2	2	1	New York: New York.....	4	5	1
Lynn.....	0	1	.....	Niagara Falls.....	0	1	.....
Worcester.....	0	1	.....	Pennsylvania: Philadelphia.....	1	2	2
Michigan: Detroit.....	0	.....	1	Pittsburgh.....	0	2	.....
Highland Park.....	0	1	1	Texas: Dallas.....	0	1	.....
				Waco.....	0	.....	1

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

DIPHTHERIA.

See p. 2856; also Telegraphic weekly reports from States, p. 2844, and Monthly summaries by States, p. 2348.

INFLUENZA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Massachusetts:		
Birmingham.....		1	Boston.....		1
Mobile.....		1	Somerville.....	1	
California:			Michigan:		
Los Angeles.....	1		Detroit.....	3	1
Connecticut:			Missouri:		
New Britain.....	2		Independence.....	1	1
District of Columbia:			New York:		
Washington.....	2		New York.....	29	7
Florida:			Ohio:		
Tampa.....	2		Cincinnati.....		4
Georgia:			Cleveland.....	1	
Albany.....	1		Cleveland Heights.....	1	
Atlanta.....	10	1	Columbus.....		1
Brunswick.....	6		Pennsylvania:		
Illinois:			Philadelphia.....		1
Chicago.....	10	2	South Dakota:		
Indiana:			Sioux Falls.....	1	
Kokomo.....		1	Texas:		
Kentucky:			Dallas.....	2	1
Louisville.....	1		Virginia:		
Louisiana:			Roanoke.....	3	
Baton Rouge.....	1		West Virginia:		
New Orleans.....		3	Bluefield.....	1	
Maryland:					
Baltimore.....	13				

LEPROSY.

California:			Illinois:		
Los Angeles.....		1	Chicago.....	1	

LETHARGIC ENCEPHALITIS.

Illinois:					
La Salle.....	1	1			

MALARIA.

Alabama:			Michigan:		
Birmingham.....	4		Detroit.....	3	
Arkansas:			Ohio:		
Fort Smith.....	8		Findlay.....		1
Little Rock.....	2		South Carolina:		
Florida:			Charleston.....		1
Tampa.....	1		Tennessee:		
Georgia:			Memphis.....		1
Rome.....	4		Texas:		
Savannah.....	1	1	Beaumont.....		1
Valdosta.....	4	1	Houston.....		1
Maryland:			Virginia:		
Baltimore.....	2		Alexandria.....	1	

MEASLES.

See p. 2856; also Telegraphic weekly reports from States, p. 2844, and Monthly summaries by States, p. 2348.

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			North Carolina:		
Birmingham.....	2	.....	Winston-Salem.....	2	.....
Montgomery.....	.....	1	South Carolina:		
Georgia:			Charleston.....		1
Atlanta.....	.....	1	Tennessee:		
Macon.....	.....	1	Memphis.....	.....	3
Savannah.....	.....	1	Texas:		
Valdosta.....	4	.....	Dallas.....	.....	1
Louisiana:					
Monroe.....	.....	1			
New Orleans.....	1	.....		

RABIES IN ANIMALS.

California:			Virginia:		
Pasadena.....	2	.....	Alexandria.....	1	.....
New Jersey:					
Englewood.....	1	.....		

PNEUMONIA (ALL FORMS).

Alabama:			Illinois—Continued.		
Birmingham.....	.....	3	Jacksonville.....	.....	1
Montgomery.....	.....	2	La Salle.....	2	.....
Arizona:			Mattoon.....	2	.....
Tucson.....	.....	2	Peoria.....	.....	3
Arkansas:			Rockford.....	.....	2
Little Rock.....	1	.....	Springfield.....	.....	1
California:			Indiana:		
Alameda.....	.....	1	East Chicago.....	.....	1
Eureka.....	2	.....	Elkhart.....	.....	1
Los Angeles.....	17	8	Fort Wayne.....	.....	1
Oakland.....	.....	2	Gary.....	.....	1
Sacramento.....	1	.....	Hammond.....	1	.....
San Diego.....	.....	1	Indianapolis.....	.....	6
San Francisco.....	7	.....	Marion.....	.....	1
Stockton.....	.....	1	Iowa:		
Colorado:			Council Bluffs.....	.....	1
Colorado Springs.....	.....	1	Dubuque.....	.....	1
Denver.....	.....	7	Kansas:		
Pueblo.....	.....	1	Coffeyville.....	.....	1
Connecticut:			Kansas City.....	4	.....
Bridgeport.....	.....	4	Topeka.....	.....	2
Bristol.....	2	.....	Wichita.....	.....	2
Greenwich.....	2	.....	Kentucky:		
Hartford.....	.....	3	Covington.....	.....	1
Meriden.....	2	.....	Lexington.....	.....	2
New Britain.....	.....	4	Louisville.....	.....	6
New Haven.....	.....	2	Louisiana:		
New London.....	1	.....	New Orleans.....	13	.....
Norwalk.....	.....	3	Maine:		
Norwich.....	.....	1	Lewiston.....	.....	1
Delaware:			Portland.....	.....	2
Wilmington.....	.....	2	Maryland:		
District of Columbia:			Baltimore.....	26	.....
Washington.....	.....	9	Massachusetts:		
Florida:			Beverly.....	.....	1
Tampa.....	.....	1	Boston.....	.....	11
Georgia:			Cambridge.....	2	.....
Atlanta.....	.....	7	Chelsea.....	.....	2
Macon.....	.....	4	Chicopee.....	.....	4
Savannah.....	.....	3	Everett.....	.....	1
Valdosta.....	.....	1	Fall River.....	1	.....
Illinois:			Haverhill.....	4	.....
Alton.....	.....	1	Holyoke.....	3	.....
Aurora.....	3	.....	Lawrence.....	.....	1
Chicago.....	151	34	Leominster.....	1	.....
Chicago Heights.....	.....	2	Lowell.....	.....	6
Cicero.....	.....	1	Lynn.....	.....	1
Danville.....	2	.....	Medford.....	1	.....
Decatur.....	1	.....	New Bedford.....	.....	3
East St. Louis.....	.....	1	Newburyport.....	.....	1
Elgin.....	2	.....	Newton.....	.....	1
Galesburg.....	2	.....	Somerville.....	.....	1

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Massachusetts—Continued.			New York—Continued.		
Springfield.....	4	1	Schenectady.....	2	.....
Taunton.....	1	.....	Syracuse.....	12	4
Wakefield.....	1	.....	Troy.....	.....	4
Waltham.....	.....	1	White Plains.....	1	.....
Worcester.....	8	.....	Yonkers.....	3	1
Michigan:			North Carolina:		
Detroit.....	45	15	Charlotte.....	.....	3
Flint.....	.....	1	Raleigh.....	.....	2
Grand Rapids.....	7	1	Wilmington.....	2	.....
Hamtramck.....	4	1	Winston-Salem.....	.....	2
Highland Park.....	1	.....	Ohio:		
Jackson.....	2	1	Akron.....	7	.....
Kalamazoo.....	.....	2	Canton.....	.....	1
Port Huron.....	1	.....	Chillicothe.....	.....	1
Saginaw.....	.....	2	Cincinnati.....	.....	6
Sault Ste. Marie.....	.....	1	Cleveland.....	26	.....
Minnesota:			Columbus.....	.....	1
Minneapolis.....	.....	8	Dayton.....	1	.....
St. Paul.....	2	.....	Newark.....	.....	2
Missouri:			Portsmouth.....	.....	1
Independence.....	.....	1	Salem.....	.....	3
Kansas City.....	.....	8	Toledo.....	.....	2
St. Joseph.....	1	.....	Youngstown.....	.....	3
Springfield.....	.....	2	Zanesville.....	.....	2
Montana:			Oklahoma:		
Great Falls.....	.....	1	Oklahoma City.....	.....	1
Nebraska:			Oregon:		
Omaha.....	.....	5	Portland.....	.....	2
New Hampshire:			Pennsylvania:		
Berlin.....	1	.....	Philadelphia.....	43	34
Concord.....	.....	1	Rhode Island:		
Keene.....	.....	1	Cranston.....	.....	1
New Jersey:			Pawtucket.....	.....	1
Bloomfield.....	3	1	Providence.....	.....	8
Clifton.....	2	.....	South Dakota:		
Hackensack.....	1	.....	Sioux Falls.....	.....	2
Hoboken.....	.....	3	Tennessee:		
Jersey City.....	6	.....	Memphis.....	.....	4
Kearney.....	2	1	Nashville.....	.....	8
Montclair.....	2	.....	Texas:		
Morristown.....	2	1	Dallas.....	.....	1
Orange.....	3	.....	El Paso.....	.....	4
Passaic.....	.....	2	Utah:		
Plainfield.....	1	.....	Salt Lake City.....	.....	1
Summit.....	1	.....	Vermont:		
Trenton.....	3	2	Rutland.....	.....	1
West New York.....	.....	1	Virginia:		
New Mexico:			Alexandria.....	1	.....
Albuquerque.....	.....	1	Danville.....	.....	3
New York:			Lynchburg.....	.....	1
Albany.....	15	.....	Norfolk.....	.....	2
Buffalo.....	13	5	Petersburg.....	.....	1
Cohoes.....	1	.....	Portsmouth.....	.....	1
Elmira.....	2	1	Richmond.....	.....	3
Geneva.....	.....	2	Roanoke.....	.....	1
Hornell.....	1	.....	West Virginia:		
Ithaca.....	1	.....	Charleston.....	.....	1
Jamestown.....	.....	2	Wisconsin:		
Middletown.....	2	.....	Beloit.....	.....	2
Mount Vernon.....	3	1	Kenosha.....	.....	1
New York.....	235	102	Madison.....	.....	1
Niagara Falls.....	2	1	Milwaukee.....	7	.....
North Tonawanda.....	.....	1	Oshkosh.....	.....	2
Olean.....	.....	1	Racine.....	.....	1
Rochester.....	13	10	Wyoming:		
Rome.....	.....	1	Cheyenne.....	.....	1
Saratoga Springs.....	1	.....		

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

POLIOMYELITIS (INFANTILE PARALYSIS).

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

City.	Median for previous years.	Week ended Oct. 29, 1921.		City.	Median for previous years.	Week ended Oct. 29, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
California:				New Jersey:			
Los Angeles.....	0	2	.....	Elizabeth.....	0	1	1
San Francisco.....	0	2	.....	Hoboken.....	0	1	.....
Stockton.....	0	7	1	Jersey City.....	0	1	.....
Idaho:				New York:			
Boise.....		1	.....	Albany.....	0	1	.....
Illinois:				New York.....	2	18	3
Aurora.....	0	1	.....	Rochester.....	0	1	.....
Chicago.....	3	3	2	Yonkers.....	0	1	1
Iowa:				Ohio:			
Dubuque.....	0	1	.....	Hamilton.....	0	1	1
Kansas:				Springfield.....	0	1	.....
Topeka.....	0	1	.....	Youngstown.....	0	1	.....
Maryland:				Oregon:			
Baltimore.....	0	8	1	Portland.....	0	6	.....
Massachusetts:				Pennsylvania:			
Everett.....	0	1	.....	Butler.....	0	1	.....
Greenfield.....		1	.....	Johnstown.....	0	1	.....
Michigan:				Philadelphia.....	0	8	1
Detroit.....	0	1	.....	West Chester.....		1	.....
Muskegon.....		1	.....	Virginia:			
Missouri:				Norfolk.....	0	1	.....
Independence.....		1	1	Washington:			
St. Louis.....	0	1	.....	Aberdeen.....		1	.....
Nebraska:				Seattle.....	0	2	.....
Grand Island.....		2	1	Spokane.....		1	.....
				Wisconsin:			
				La Crosse.....	0	1	.....

SCARLET FEVER.

See p. 2856; also Telegraphic weekly reports from States, p. 2844, and Monthly summaries by States, p. 2848.

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

SMALLPOX.

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

City.	Median for previous years.	Week ended Oct. 29, 1921.		City.	Median for previous years.	Week ended Oct. 29, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Minnesota:			
Mobile.....	0	2	.....	Duluth.....	0	2	.....
California:				St. Paul.....	0	12	.....
Bakersfield.....	0	1	.....	Missouri:			
Los Angeles.....	1	3	.....	Independence.....	0	1	.....
Oakland.....	0	13	.....	Kansas City.....	1	20	6
Richmond.....				Montana:			
San Francisco.....	0	2	.....	Great Falls.....	1	16	.....
Santa Ana.....				New York:			
Stockton.....	0	3	.....	New York.....	0	1	.....
Colorado:				Ohio:			
Denver.....	0	2	.....	Fremont.....	0	13	.....
District of Columbia:				Toledo.....	1	1	.....
Washington.....	0	1	.....	Oregon:			
Florida:				Portland.....	2	3	.....
Tampa.....				Pennsylvania:			
Georgia:				Bethlehem.....	0	1	.....
Atlanta.....	1	1	.....	Tennessee:			
Savannah.....	0	1	.....	Nashville.....	0	1	.....
Indiana:				Utah:			
Indianapolis.....	3	1	.....	Salt Lake City.....	1	7	.....
Newcastle.....	1	1	.....	Washington:			
Iowa:				Aberdeen.....	0	2	.....
Des Moines.....	3	1	.....	Seattle.....	2	1	.....
Sioux City.....	0	1	.....	Spokane.....	7	18	.....
Waterloo.....				Tacoma.....	0	7	.....
Kansas:				Walla Walla.....	0	1	.....
Hutchinson.....	0	3	.....	West Virginia:			
Kentucky:				Bluefield.....	0	1	.....
Louisville.....	0	1	.....	Parkersburg.....	0	2	.....
Maine:				Wisconsin:			
Waterville.....	1	1	.....	Madison.....	0	1	.....
Massachusetts:				Manitowoc.....	0	1	.....
Worcester.....	0	2	.....	Milwaukee.....	3	1	.....
Michigan:				Superior.....	0	1	.....
Ann Arbor.....	0	1	.....	Waukesha.....			
Detroit.....	2	1	.....	West Allis.....			

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California:			Missouri:		
Alameda.....	1	.....	St. Louis.....	1	2
San Francisco.....		1	New York:		
Illinois:			New York.....	1	.....
Chicago.....		1	Virginia:		
Louisiana:			Roanoke.....		1
New Orleans.....		1	West Virginia:		
			Huntington.....		1

TUBERCULOSIS.

See p. 2856; also Telegraphic weekly reports from States, p. 2844.

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

TYPHOID FEVER.

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

City.	Median for previous years.	Week ended Oct. 29, 1921.		City.	Median for previous years.	Week ended Oct. 29, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Massachusetts:			
Birmingham.....	3	7	1	Arlington.....	0	1	
Gadsden.....		1		Attleboro.....	0	1	
Mobile.....	0		1	Boston.....	5	4	2
California:				Chelsea.....	0	1	
Long Beach.....	0	1		Fall River.....	2	2	
Los Angeles.....	3	4		Lowell.....	1	1	
Oakland.....	1	3		New Bedford.....	1	1	
Pasadena.....	0	1		Newton.....	0	2	
Sacramento.....	1	2	2	Taunton.....	0		1
San Diego.....	0	1		Michigan:			
San Francisco.....	4	3		Detroit.....	7	3	1
Stockton.....	0	5		Jackson.....	0	1	
Colorado:				Port Huron.....	0	1	
Denver.....	2	1		Saginaw.....	1	2	
Pueblo.....	0	1		Minnesota:			
Connecticut:				Mankato.....	0	1	
Danbury.....	0	1		Rochester.....		1	
Hartford.....	1	1		St. Paul.....	2	2	
Milford.....		1		Missouri:			
New Haven.....	2	2		Cape Girardeau.....	0	1	
Delaware:				Joplin.....	1	1	
Wilmington.....	0	4		Kansas City.....	2	5	2
District of Columbia:				St. Joseph.....	1		1
Washington.....	8	3		St. Louis.....	6	1	
Georgia:				New Jersey:			
Atlanta.....	0	3	1	Bayonne.....	0	1	
Rome.....	1	1		Harrison.....	0	1	
Savannah.....	1	1		Jersey City.....	0	4	
Illinois:				Rahway.....	0	2	
Alton.....	0	1		Trenton.....	0	1	
Aurora.....	0	1		Union.....		1	
Chicago.....	9	11	1	New York:			
Danville.....	0	1	1	Buffalo.....	1	3	1
Freeport.....	0	1		Elmira.....	0	2	
Galesburg.....	0	1		Fulton.....	0	1	1
Kewanee.....	0	1		Jamestown.....	0	1	
La Salle.....	0	1		New York.....	33	22	2
Oak Park.....	0		1	North Tonawanda.....	0	1	
Indiana:				Rochester.....	1	2	
Fort Wayne.....	0		1	Saratoga Springs.....	0	1	
La Fayette.....	0		1	Syracuse.....	0	1	
South Bend.....	0	1	1	Watertown.....	0	2	
Terre Haute.....	0	1	1	Yonkers.....	2	2	1
Iowa:				North Carolina:			
Dubuque.....	0	1	1	Wilmington.....	0	1	
Mason City.....	0	2		Ohio:			
Kansas:				Alliance.....	0	2	
Fort Scott.....	0	3		Ashtabula.....	0	2	
Lawrence.....	0	2		Bucyrus.....		1	
Parsons.....	0	1		Cleveland.....	3	9	
Topeka.....	0		1	Cleveland Heights.....		7	
Wichita.....	1		1	Columbus.....	2	3	1
Kentucky:				Middletown.....	1	1	
Covington.....	0	1		Newark.....	1	1	
Lexington.....	1	1		Niles.....		1	1
Louisville.....	2	1		Portsmouth.....	0	1	
Owensboro.....		2		Sandusky.....	0		1
Louisiana:				Springfield.....	0	1	
Baton Rouge.....	0	1	1	Steubenville.....	0	1	
New Orleans.....	5	6	3	Toledo.....	3	16	2
Maine:				Youngstown.....	0		1
Bath.....		1		Pennsylvania:			
Lewiston.....	5	1		Allentown.....	1	1	
Portland.....	1	4	1	Beaver Falls.....	0	1	
Maryland:				Canonsburg.....		1	
Baltimore.....	14	8	2	Donora.....		1	
Cumberland.....	0	2		Harrisburg.....	1	1	

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

TYPHOID FEVER—Continued.

City.	Median for previous years.	Week ended Oct. 29, 1921.		City.	Median for previous years.	Week ended Mar. 12, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Pennsylvania—Con.				Vermont:			
Lancaster.....	0	1	.....	Burlington.....	0	1	.....
Monessen.....	0	1	.....	Virginia:			
Mount Carmel.....	0	1	.....	Alexandria.....	1	1	.....
New Castle.....	0	3	.....	Danville.....	0	1	2
Oil City.....	0	1	.....	Lynchburg.....	0	4	1
Philadelphia.....	13	6	1	Norfolk.....	0	1	.....
Phoenixville.....	0	1	.....	Petersburg.....	1	2	.....
Pittsburgh.....	2	1	.....	Portsmouth.....	0	1	.....
Reading.....	1	2	.....	Richmond.....	3	3	.....
Seranton.....	0	1	.....	Roanoke.....	0	2	.....
Shamokin.....	0	1	.....	Washington:			
Washington.....	0	1	.....	Spokane.....	0	2	.....
South Carolina:				Tacoma.....	0	1	.....
Charleston.....	1	2	1	West Virginia:			
Tennessee:				Bluefield.....	1	1	.....
Knoxville.....	0	1	1	Charleston.....	0	1	.....
Nashville.....	3	5	3	Wisconsin:			
Texas:				Oshkosh.....	0	2	.....
Beaumont.....	0	1	1	Sheboygan.....	0	1	.....
El Paso.....	1	1	.....			
Galveston.....	1	2	.....			

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Anniston.....	17,734	.....	4	.....	.....	.....	1	.....	.....	.....
Birmingham.....	178,270	51	20	2	.....	.....	10	1	2	4
Gadsden.....	14,737	.....	5	.....	.....	.....	.....	.....	1	.....
Mobile.....	60,151	22	6	.....	.....	.....	.....	.....	1	1
Montgomery.....	43,464	12	6	1	.....	.....	2	.....	1	.....
Tuscaloosa.....	11,996	.....	3	.....	.....	.....	.....	.....	.....	.....
Arizona:										
Tucson.....	20,292	15	.....	.....	.....	.....	.....	.....	.....	5
Arkansas:										
Fort Smith.....	28,811	.....	3	.....	1	.....	.....	.....	.....	.....
Little Rock.....	64,997	.....	5	.....	.....	.....	3	.....	1	.....
North Little Rock.....	14,048	.....	.....	.....	.....	.....	4	.....	.....	.....
California:										
Alameda.....	28,806	4	2	.....	.....	.....	.....	.....	.....	.....
Bakersfield.....	18,638	7	3	.....	.....	.....	.....	.....	3	2
Berkeley.....	55,886	15	1	.....	.....	.....	.....	.....	.....	1
Eureka.....	12,923	3	1	.....	.....	.....	.....	.....	9	.....
Long Beach.....	55,593	9	5	.....	1	.....	3	.....	.....	.....
Los Angeles.....	576,673	139	73	2	4	.....	14	.....	42	23
Oakland.....	216,361	40	22	3	4	.....	5	.....	6	3
Pasadena.....	45,354	15	5	.....	.....	.....	1	.....	2	2
Richmond.....	16,843	1	.....	.....	.....	.....	.....	.....	.....	.....
Riverside.....	19,341	6	3	.....	.....	.....	.....	.....	.....	.....
Sacramento.....	65,857	24	19	2	1	.....	.....	.....	2	1
San Bernardino.....	18,721	4	1	1	.....	.....	.....	.....	.....	2
San Diego.....	74,683	26	1	.....	.....	.....	2	.....	4	1
San Francisco.....	508,410	111	51	3	2	.....	3	.....	27	8
Santa Ana.....	15,485	4	8	.....	.....	.....	.....	.....	.....	.....
Santa Barbara.....	19,441	4	1	.....	.....	.....	.....	.....	.....	1
Santa Cruz.....	10,917	3	.....	.....	.....	.....	.....	.....	.....	.....
Stockton.....	40,296	17	15	.....	.....	.....	13	.....	.....	1
Colorado:										
Co'orado Springs.....	30,105	8	3	.....	.....	.....	3	.....	17	1
Denver.....	256,369	73	16	1	3	1	11	.....	.....	12
Pueblo.....	42,908	.....	19	.....	.....	.....	6	.....	.....	1
Trinidad.....	10,906	.....	.....	.....	.....	.....	.....	.....	1	.....

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

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

City.	Popula- tion Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever		Tuber- culosis	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Connecticut:										
Bridgeport.....	43,538	13	4					1	1	1
Bristol.....	20,620	2	1	1						
Danbury (city).....	18,943	1					1			
Derby.....	11,238	3								
Fairfield (town).....	11,475	1	3		1					
Greenwich (town).....	22,123	1	1				1			
Hartford.....	138,036	36	1				4		7	
Manchester (town).....	18,370	3			1		1			
Meriden (city).....	29,842	6	6							
Millford (town).....	10,193	2	4		2				1	
New Britain.....	50,316	15	10							2
New Haven.....	162,519	25	12		2		7		8	1
New London.....	25,788	9	1						1	
Norwalk.....	27,701	5								
Norwich (town).....	29,685	7	1	1						
Stamford (city).....	35,086		1		1					
Stonington (town).....	10,236									
Delaware:										
Wilmington.....	110,168	15			1					1
District of Columbia:										
Washington.....	437,571	126	15				19	1	10	13
Florida:										
Tamp.....	11,252							1		
Georgia:										
Albany.....	11,555		1				1			
Atlanta.....	200,616	55	15				11		2	3
Brunswick.....	14,413	3	1		1					
La Grange.....	17,038	1								
Macon.....	52,995	45	1				2			1
Rome.....	13,252						5			
Savannah.....	83,222	42	1				6			4
Valdosta.....	10,783	6					2			1
Idaho:										
Boise.....	21,393	10								
Pocatello.....	15,001	2	4							
Illinois:										
Alton.....	14,682	1	2				1			1
Aurora.....	36,397	10	11							2
Bloomington.....	28,725	7	5	1			1			
Blue Island.....	11,424	3	11	2			1			
Centralia.....	12,491	3					4			
Chicago.....	701,705	166	150	20	23		106	5	161	40
Chicago Heights.....	19,653	5								
Cicero.....	44,995	5	10	1	2					
Danville.....	23,750	10					5		1	1
Decatur.....	23,813	6	19	1			4			
East St. Louis.....	68,740	18	1	1					1	1
Elgin.....	27,454	6								
Evanston.....	27,215	7	4				3			
Freeport.....	19,666	5		10						
Galesburg.....	23,834		2				1			
Jacksonville.....	15,713									2
Kewanee.....	16,026				1		3			
La Salle.....	13,050	1	5						1	
Mattoon.....	13,552	6	14							
Oak Park.....	39,830	2	1						1	1
Pekin.....	12,086		4				5			
Peoria.....	76,121	29	15		1		15	1		1
Quincy.....	35,973	13					3			
Rockford.....	65,651	10	16		4		7			
Rock Island.....	35,177	6					1			
Springfield.....	59,183	18							2	
Indiana:										
Crawfordsville.....	10,139		1							
East Chicago.....	35,967									
Elkhart.....	24,277	4	1							
Fort Wayne.....	36,549	24	26	3					2	2
Frankfort.....	11,685	3					2			
Gary.....	55,378	7	9		1				2	
Hammond.....	36,004	10	9				2			2
Huntington.....	14,000	2	1							

CITY REPORTS FOR WEEK ENDED OCT. 23, 1921—Continued.

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

City.	Population Jan. 1, 1921, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Indiana—Continued.										
Indianapolis	314,154	73	113	5	27	13			6	
Kokomo	30,067	7	1			4				1
La Fayette	22,486	5	1							
Logansport	21,626	6	3			1				
Marion	23,747	8	12							
Mishawaka	15,195	1	1			1			1	
Muncie	36,624	6	3	1		1				
Newcastle	14,458	2	3							
Newcastle	26,765	6	1							
Richmond	70,683	8	5			1				1
South Bend	66,083	22	21	2		4				2
Terre Haute	66,083									
Iowa.										
Burlington	54,057	6				1				
Cedar Rapids	45,566		2	1						
Council Bluffs	36,162	8	1			1				
Davenport	56,727					1				
Des Moines	126,468		5			1				
Dubuque	39,141		8			14			1	
Iowa City	11,267					6				
Marshalltown	15,731					1				
Mason City	26,065	5	1			6				
Muscatine	16,068	3	1			1				
Ottumwa	23,003	1	2	1		5				
Sioux City	71,227		17			3				
Waterloo	36,230		6	1		1				
Kansas.										
Atchison	12,630		3							
Coffeyville	13,452	2	19			1				
Fort Scott	10,663	6	11	2		5				
Hutchinson	23,298		13			4				
Kansas City	101,177		32			6				
Lawrence	12,452	8		1		2			1	2
Leavenworth	16,912		8			4				
Parsons	16,028	6	3		1				1	
Salina	15,085	2				1				
Topeka	56,022	15	60			3			3	2
Wichita	72,128	24	46		1	17			2	
Kentucky.										
Covington	57,121	14	5			3				2
Lexington	41,534	14	5			1				1
Louisville	284,891	68	48		10	10			8	4
Owensboro	17,424		41							
Louisiana.										
Baton Rouge	21,782	3	2			2				
Monroe	12,675	11								
New Orleans	387,219	147	13	2	1	14			32	22
Maine.										
Auburn	16,985	2	1						1	
Bangor	25,978					3				
Bath	14,731	1				1				
Lewiston	31,791	6	3			2			2	
Portland	69,272	12	17			4				2
Sanford	10,691	2	1							
Waterville	13,351					3				
Maryland.										
Baltimore	733,826	188	36	1	5	19			18	15
Cumberland	29,337	12	4	1		7	1			1
Massachusetts.										
Arlington	18,665	2								1
Attleboro	19,731	4							1	1
Belmont	10,749	1	2							
Beverly	22,561	8				1			2	1
Boston	748,060	191	57	4	21	27			50	16
Braintree	10,580	4	1							2
Brookline	37,748	7		1	1				1	1
Cambridge	109,694	20	6			6			5	
Chelsea	43,184	11	2		1	3			2	1
Chicopee	36,214	9	8	1		1			1	1
Clinton	12,979	3				5				
Danvers	11,108								1	
Dedham	10,982	3								
Easthampton	11,261		3			1				
Everett	40,120	4	4	1		3	1		2	

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

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

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Montana:										
Billings.....	15,100	3			1		1			
Great Falls.....	24,121	6	4				3		1	
Missoula.....	12,668	1								
Nebraska:										
Grand Island.....	13,960	14	1				1			
Lincoln.....	54,934	9	3				3		1	
Omaha.....	191,801	49	47	3			1			2
Nevada:										
Reno.....	12,016	2							1	
New Hampshire:										
Concord.....	22,167	18					1			
Keene.....	11,210	3							3	
Manchester.....	78,381	7	12		10		1		3	
Portsmouth.....	13,569		1							
New Jersey:										
Asbury Park.....	12,400	7	2						1	
Atlantic City.....	50,682	9			2					
Bayonne.....	78,751		3						3	
Belleville.....	15,660						1			
Bloomfield.....	22,019	2	3		17		4			
Cifton.....	26,470	5	3				4			2
Elizabeth.....	95,682		17				5		3	1
Englewood.....	11,627	3							1	
Garfield.....	19,381	2							1	
Gloucester City.....	12,162		2						2	
Hackensack.....	17,667	3							1	
Hoboken.....	68,166	22	1	1			7		2	
Irrington.....	25,480						2			
Jersey City.....	297,964		14		4		7		25	
Kearny.....	26,724	14	2	1					1	2
Montclair.....	28,810	4	1				1			
Morristown.....	12,548	4	2				2			
New Brunswick.....	32,779	4	1							
Orange.....	33,268	6					1			
Passaic.....	63,824	16	3		3					1
Paterson.....	135,966		8		2		6		7	
Plainfield.....	27,700	3	7		1		1			
Rahway.....	11,042	4	5				2			
Summit.....	10,174	3	1							
Trenton.....	119,289	38	7	1			1		5	
Union.....	20,651		5							
West New York.....	29,926	1	3						1	
West Orange.....	15,573	3			1				2	
New Mexico:										
Albuquerque.....	15,157	4							2	1
New York:										
Albany.....	113,344		10				2		3	
Auburn.....	36,192	7	1				1			
Buffalo.....	506,775	120	66	2			32		21	11
Cohoes.....	22,987	6								
Elmira.....	45,305	11	1		2					
Fulton.....	13,043	5								
Geneva.....	14,648	7								
Herkimer.....	10,453	2	7	1						
Hornell.....	15,025	2					1			
Ithaca.....	17,004	6	12				5			
Jamestown.....	39,917	13	7				6			1
Little Falls.....	13,029	3							1	1
Lockport.....	21,308	6	2				3			
Middletown.....	18,420									2
Mount Vernon.....	42,728	12	1							
Newburgh.....	30,366	10			1		4			
New York.....	5,621,151	1,177	195	10	57	1	135	2	1,258	184
Niagara Falls.....	50,780	7	3				11		1	
North Tonawanda.....	15,482	3	9							
Opdensburg.....	14,609	4								
Olean.....	20,506	6	5							
Peekskill.....	15,868	2								
Plattsburg.....	10,909	2								
Port Chester.....	16,573	5	1	1			4			
Poughkeepsie.....	35,000	3								

¹ Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

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

City.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York—Continued.										
Rochester.....	295,750	61	23	1			8		11	1
Rome.....	23,341	13								1
Saratoga Springs.....	13,181	4	2							
Schenectady.....	89,723	11	16			8		1		
Syracuse.....	171,717	32	34		1	27		3		1
Troy.....	72,013	20								1
Watertown.....	21,285	11	1			1		2		
White Plains.....	21,031	2						5		
Yonkers.....	100,226	18	5			9				
North Carolina:										
Charlotte.....	46,338	18	19					3	2	3
Durham.....	21,719	3	7			2				
Greensboro.....	19,861	8								
Raleigh.....	24,418	11	6			2				
Rocky Mount.....	27,742	2								
Salisbury.....	13,834	0								
Wilmington.....	33,372	8	1			1				1
Winston-Salem.....	48,395	11	3			4		6		1
North Dakota:										
Fargo.....	21,961	0				11				
Ohio:										
Akron.....	208,435	30	23		4	27		4		
Alliance.....	21,603	3				1	1			
Ashtabula.....	22,062	3	1							
Barberton.....	18,811	3	1							
Bucyrus.....	10,425	1								
Canton.....	87,091	12	20	1		5			3	
Chillicothe.....	15,831	9	6			1		1		
Cincinnati.....	401,247	105	39		1	9		25		10
Cleveland.....	796,636	15,236	53		3	80				
Cleveland Heights.....	15,236					3		1		4
Columbus.....	237,031	71	73	5		9		3		
Dayton.....	152,559	31	8		1	5		1		
East Cleveland.....	27,322	3						1		
Elyria.....	20,474	4	3					1		
Elyria.....	17,021	5						1		
Findlay.....	12,468									
Fremont.....	12,468							1		
Hamilton.....	39,675	11	14			6		1		1
Lakewood.....	41,732	6				5				
Lancaster.....	14,706	7	3							
Lorain.....	37,295		7					14		
Mansfield.....	27,824	9							1	
Marion.....	27,891		22		5					
Middletown.....	28,594	6	10			2		4		
Newark.....	26,718	7	21					2		
New Philadelphia.....	10,718		6							
Niles.....	13,080	5								
Norwood.....	24,966	4	2			1		1		
Piqua.....	15,044	2				4				
Portsmouth.....	35,011	8	2			1				
Salem.....	10,305	5								1
Sandusky.....	22,897	10								1
Springfield.....	60,640	13	62	2		2				1
Steubenville.....	28,648	6	3			1				
Steubenville.....	243,109	62	56	3		3		2		4
Toledo.....	182,358	6	1					3		3
Youngstown.....	29,569	5	6			1				
Zanesville.....										
Oklahoma:										
Oklahoma City.....	91,258	23	14	1		5				1
Oregon:										
Portland.....	258,288	43	25		1	11		2		2
Pennsylvania:										
Allentown.....	73,502		12		1					
Altoona.....	60,531		1			3				
Ambridge.....	12,730		10							
Beaver Falls.....	12,902		3			2				
Berwick.....	12,181		2							
Bethlehem.....	50,358		6			3				
Bradock.....	20,879		5							
Bradford.....	15,525		1			4		1		
Butler.....	23,778		3			1				
Cannonsburg.....	10,632		1			6				
Carrick.....	10,504		1			1				

CITY REPORTS FOR WEEK ENDED OCT. 29, 1921—Continued.

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

City.	Popula- tion Jan. 1, 1921, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
Charleroi.....	11,516		2							
Chester.....	58,030		3				1		2	
Coatesville.....	14,515		1							
Dickson City.....	11,549		5							
Dubois.....	18,581		1							
Duquesne.....	19,011		1				8			
Easton.....	33,813		5				1		1	
Erie.....	95,372		6				5		10	
Farrell.....	15,569				15		2			
Greensburg.....	15,033		1							
Harrisburg.....	75,917		3				1			
Hazleton.....	32,277		1		1		1			
Johnstown.....	67,327		6		2				2	
Lancaster.....	53,150		6				8			
McKeesport.....	45,975		2		3		6		1	
McKees Rocks.....	16,713		12						1	
Mahanoy City.....	15,509				4					
Meadville.....	14,563						4			
Monessen.....	18,179		2				1			
Nanticoke.....	22,614		8							
New Castle.....	44,938		2							
Norristown.....	32,319		1				11			
Oil City.....	21,274		1				2			
Philadelphia.....	1,823,158	425	53	3	3		94		62	42
Phoenixville.....	10,484						1			
Pittsburgh.....	583,193		36				31		11	
Pittston.....	18,497		1							
Plymouth.....	16,500		3							
Pottstown.....	17,431						5			
Reading.....	107,784		9				1		1	
Scranton.....	137,783		9				3			
Shamokin.....	21,204		1		1		2			
Sharon.....	21,747		4		3		4			
Steelton.....	13,428						1		1	
Sunbury.....	15,721				1					
Swissvale.....	10,906		1				2		2	
Tamaqua.....	12,363		1							
Uniontown.....	15,692		4		1		1		1	
Warren.....	14,256		1				3			
Washington.....	21,480		3				2			
Walkers-Harre.....	73,583		10		1		1			
Wilkinsburg.....	24,403		2		1					
Williamsport.....	26,198		1							
York.....	47,512		4				2		1	
Rhode Island:										
Cranston.....	29,407	6	1							
Newport.....	31,255	5	5				8			
Pawtucket.....	64,248	22	2							
Providence.....	237,595	53	5				2			4
South Carolina:										
Charleston.....	67,057	11	4	1			3			
Columbia.....	37,524		8				9		1	
South Dakota:										
Sioux Falls.....	26,176	5								
Tennessee:										
Chattanooga.....	57,895		11				4			
Knoxville.....	77,618		6	1	1		5		4	4
Memphis.....	162,351	55	28	1			9		4	3
Nashville.....	118,342	54	20		2				3	4
Texas:										
Beaumont.....	40,422	8	1							1
Corpus Christi.....	10,522	4	1	1						
Dallas.....	158,976	40	8		1		5			1
El Paso.....	77,543	35	7				1			5
Galveston.....	44,255	10	5				1		1	
Houston.....	138,076	28	10				2		4	5
Waco.....	38,500	15	8							
Utah:										
Salt Lake City.....	118,110	28	1				9		2	1
Vermont:										
Burlington.....	22,779	7	7	1			4			
Rutland.....	14,954	6					1			

FOREIGN AND INSULAR.

BRAZIL.

Plague—Pindobassu¹—Villa Nova.

Plague continued to be reported present in epidemic form at Pindobassu, a locality in Brazil about 200 miles distant from Bahia, during the month of September, 1921. On October 1, 1921, the death rate from the disease was stated to be decreasing.

Plague in epidemic form was reported present, from September 11 to October 1, 1921, at Villa Nova, a locality stated to be about 200 miles from Bahia.

CUBA.

Communicable Diseases.

Communicable diseases have been reported in Habana as follows:

Diseases.	Oct. 11-20, 1921.		Re- main- ing under treat- ment Oct. 20, 1921.	Diseases.	Oct. 11-20, 1921.		Re- main- ing under treat- ment Oct. 20, 1921.
	New cases.	Deaths.			New cases.	Deaths.	
Cerebrospinal meningitis.....			2	Leprosy.....			11
Chicken pox.....	1		2	Malaria.....	33	1	57
Diphtheria.....	2		0	Smallpox.....	1		4
Icterus, grave.....			1	Typhoid fever.....	9	3	29

¹ From the interior, 1.

² From the interior, 42.

³ From the interior, 2; from abroad, 1.

⁴ From the interior, 19.

Smallpox—Summary—July 30—Oct. 12, 1921.

Information dated October 18, 1921, gives the following summary of smallpox prevalence in Cuba: On July 30, 1921, 509 cases present; September 30, 1921, 384 cases present; October 9, 1921, 281 cases, and October 12, 1921, 292 cases present.

GERMANY.

Further Relative to Cholera—Königsberg.²

Information dated October 21, 1921, shows that the original case of cholera, in the series of three cases with one death reported at Königsberg, East Prussia, Germany, October 10, 1921, was the

¹ Public Health Reports, Oct 7, 1921, p. 2507.

² Public Health Reports, Nov. 4, 1921, p. 2754.

result of laboratory infection and that no further spread of the disease had occurred.

MEXICO.

Plague-Infected Rodents—Tampico.

During the two weeks ended November 5, 1921, 12 plague-infected rodents were reported found at Tampico, Mexico. The total number of plague-infected rodents found from January 1 to November 5, 1921, was 294.

RUSSIA.

Typhus Fever—Esthonia—September, 1921.

During the month of September, 1921, 23 cases of typhus fever were reported in the Province of Esthonia, Russia.

UNION OF SOUTH AFRICA.

Smallpox—Typhus Fever—August, 1921.

During the month of August, 1921, smallpox and typhus fever were reported in the Union of South Africa, as follows:

Smallpox.—Among the colored population, 65 cases with one death, of which 49 cases with 1 death occurred in the Cape Province, 3 cases in Natal, 5 cases in the Orange Free State, and 8 cases in the Transvaal. Among the white or European population 14 cases were reported, 10 cases occurring in the Transvaal, 3 cases in the Orange Free State, and 1 case in Natal.

Typhus fever.—Among the colored population, 833 cases with 79 deaths, of which 818 cases with 77 deaths occurred in the Cape Province, chiefly in the eastern part where the native reservations are located, 7 cases with 1 death in Natal, and 8 cases with 1 death in the Orange Free State. The occurrence among the white or European population was 17 cases with 4 deaths, of which 16 cases with 3 deaths were reported from the Cape Province and 1 case with 1 death from the Orange Free State.

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

Reports Received During Week Ended Nov. 18, 1921.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Sept. 11-24.....	19	15	
Indo-China:				
Saigon.....	Sept. 11-17.....	1	1	
Poland.....	.....	.....	.....	Apr. 24-June 18, 1921: Cases, 5; deaths, 1.

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

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW
FEVER—Continued.**
Reports Received During Week Ended Nov. 18, 1921—Continued.
PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia.....	Sept. 25-Oct. 1....	2	1	
Pernambuco.....	Aug. 22-23.....	1	1	
Pindotassu.....	Sept. 1-30.....			Epidemic.
Villa Nova.....	Sept. 11-Oct. 1....			Do.
British East Africa:				
Kenya Colony—				
Kisumu.....	Sept. 11-24.....			Present in vicinity.
Uganda.....	July 1-31.....	41	30	Reports of inspectors, deaths, 230; reports of chiefs, deaths, 1,482.
Egypt.....				Jan. 1-Oct. 13, 1921: Cases, 308; deaths, 132.
Alexandria.....	Oct. 7-11.....	1	1	
Suez.....	do.....	1	2	
Indo-China:				
Saigon.....	Sept. 11-24.....			Plague rats found, 4.
Mexico:				
Tampico.....	Sept. 23-Nov. 5....			Plague rodents found 12: total, Jan. 1-Nov. 5, 1921, 294.
Straits Settlements:				
Singapore.....	Sept. 18-24.....	2	2	
Turkey:				
Constantinople.....	Oct. 9-15.....		2	

SMALLPOX.

Brazil:				
Bahia.....	Sept. 4-Oct. 1....	2		
Canada:				
Ontario—				
Fort William.....	Oct. 16-22.....	2		
Montreal.....	Oct. 23-29.....	3		
China:				
Amoy.....	Sept. 25-Oct. 1....			Present.
Foochow.....	Sept. 25-Oct. 8....			Do.
Nanking.....	Oct. 2-8.....			Do.
Dominican Republic:				
San Pedro de Macoris.....	Oct. 16-22.....	4	1	
Cuba:				
Santiago.....	Oct. 1-31.....	13		
Ecuador:				
Guayaquil.....	Oct. 1-15.....	5		
Haiti:				
Port au Prince.....	Oct. 23-29.....			Do.
Mexico:				
Mexico City.....	Sept. 25-Oct. 8....	21		
Poland.....				Apr. 24-May 21, 1921: Cases, 677; deaths, 148. May 22-June 18, 1921: Cases, 404; deaths, 74.
Portugal:				
Lisbon.....	Sept. 25-Oct. 1....	4		
Russia:				
Esthonia Province.....	Sept. 1-30.....	2		
Straits Settlements:				
Singapore.....	Sept. 18-24.....	6		
Turkey:				
Constantinople.....	Oct. 9-15.....	3	1	
Union of South Africa:				
Cape Province.....	Aug. 27-Sept. 17..			Aug. 1-31, 1921: Cases, 79; deaths, 1.
Natal.....	Sept. 4-10.....			Outbreaks.
Orange Free State.....	Aug. 27-Sept. 17..			Do.
Transvaal.....	do.....			Do.

TYPHUS FEVER.

Chile:				
Concepcion.....	Sept. 27-Oct. 3....		3	
China:				
Antung.....	Oct. 3-9.....	2		
Egypt:				
Alexandria.....	Oct. 8-14.....		1	
Cairo.....	Aug. 6-12.....	9	5	

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

Reports Received During Week Ended Nov. 18, 1921—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico: Mexico City.....	Sept. 25-Oct. 8....	27		Apr. 24-May 21, 1921: Cases, 5,460; deaths, 489. May 22-June 18, 1921: Cases, 3,300; deaths, 299.
Poland.....				
Russia: Esthonia Province.....	Sept. 1-30.....	23		Aug. 1-31, 1921: Cases, 850; deaths, 83 (white cases, 17; deaths, 4; and colored cases, 833; deaths, 79). Outbreaks. Do.
Spain: Madrid.....	do.....		2	
Turkey: Constantinople.....	Oct. 9-15.....	4		
Union of South Africa.....				
Cape Province.....	Aug. 28-Sept. 17....			Outbreaks. Do.
Orange Free State.....	do.....			

Reports Received from July 2 to Nov. 11, 1921.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China: Amoy.....	July 3-Sept. 10....		15	Cases: Chinese, 34; foreign, 3. Deaths, Chinese, 5; foreign, 3. Cases: Chinese, 23; foreign, 44.
Hongkong.....	Aug. 22-28.....	37	8	
Shanghai.....	Aug. 1-Oct. 2.....	67	10	
Swatow.....	Aug. 14-20.....	1	1	
Germany: East Prussia— Königsberg.....	Oct. 10.....	3	1	Mar. 6-June 25, 1921: Deaths, 75,281. July 3-30, 1921: Deaths, 46,999. Aug. 31-Sept. 13, 1921: Deaths, 46,051. Jan. 1-31, 1921: Cases, 80; deaths, 15. May 29-June 12, 1921: Cases, 251; deaths, 202. Disseminated in neighboring Provinces. In January, 1920: No cases. January, 1920: Cases, 27; deaths, 14. January, 1920: Cases, 13; deaths, 10. January, 1920: No cases.
India: Bombay.....	May 1-June 18.....	11	10	
Do.....	June 26-Sept. 17....	77	48	
Calcutta.....	May 8-June 25.....	597	521	
Do.....	June 26-Sept. 10....	163	143	
Karachi.....	July 10-Oct. 1.....	150	134	
Madras.....	May 15-June 25.....	3	2	
Do.....	June 26-Aug. 27....	13	6	
Rangoon.....	Apr. 24-June 25.....	18	17	
Do.....	June 26-Sept. 10....	21	14	
Indo-China: City: Cholon.....	June 6-12.....	5	4	
Saigon.....	May 9-June 12.....	65	44	
Do.....	July 4-Sept. 3.....	104	95	
Province: Anam.....	Jan. 1-31.....	42		
Cambodia.....	do.....	8	2	
Cochin-China.....	do.....	18	9	
Tonkin.....	do.....	12	4	
Philippine Islands— Manila.....	May 22-June 25.....	4		
Do.....	July 3-Sept. 17....	33	2	
Province: Batangas.....	June 12-18.....	2	1	
Do.....	July 3-23.....	7	3	
Cavite.....	July 10-Aug. 6.....	2	1	
Cebu.....	June 26-July 2.....	1		
Laguna.....	June 19-25.....	1		
Do.....	July 3-9.....	1	1	
Mindoro.....	June 12-18.....	1	1	
Pampanga.....	June 5-11.....	1	1	
Tarlac.....	June 19-25.....	1	1	
Union.....	June 26-Aug. 13....	3	1	

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Poland				
Baranowicz	Aug. 18			Present.
Bialystok	July 25			Do.
Pinsk	do.			Do.
Russia				Jan. 1—Aug. 10, 1921. Cases, 78,011. City of Moscow, cases, 289.
Districts—				From Jan. 1 to July 13, 1921: 1,718 cases reported in Kuban Territory.
Astrakan	Jan. 1—Aug. 10	5,132		
Black Sea	do.	3,152		
Kazan	Jan. 1—July 13	434		
Kharkov	do.	257		
Kursk	Jan. 1—Aug. 10	1,227		
Moscow	Jan. 1—July 13	296		City, 192 cases.
Orel	Jan. 1—Aug. 10	1,968		
Rjasan	Jan. 1—July 13	129		
Samara	Jan. 1—Aug. 10	5,315		
Saratov	do.	7,201		
Simbirsk	do.	1,180		
Tambov	do.	2,561		
Tzaritzyn	do.	3,028		
Ufa	do.	5,196		
Voronezh	do.	3,621		
Petrograd	July 6	6		
Republics—				
Basjkir	Jan. 1—Aug. 10	1,068		
Kirghiz	do.	5,687		
Tartar	do.	1,178		
Tchuvash	do.	233		
Rostov-on-Don	June 1	747		Present on Orenburg-Tashkent line, and at Cheljabinsk, Perm, Petropavlosk, Ufa, and in Smolensk and Vitebsk districts during period under report.
Territories—				
Azerbeidjan	Jan. 1—Aug. 10	614		
Don	do.	2,906		
Turkestan	do.	5,583		
Ukraine	do.			Very prevalent; reports incomplete.
Siberia	do.	1,264		Far Eastern Republic.
Siam				
Bangkok	Apr. 24—June 11	19	4	
Do.	June 26—Sept. 3	6	2	
Straits Settlements:				
Singapore	June 12—18	1	1	

PLAGUE.

Algeria:				
Algiers	Aug. 1—Oct. 10	2	1	
Aumale district	May 31—July 3	71	22	Native district about 140 kilometers from Algiers.
Douar Megnine	May 31—Aug. 24	185	97	
Oran	Sept. 20—30	1	1	
Asia Minor:				
Smyrna	June 19—25	1		In suburbs.
Do.	July 3—Sept. 3	4		
Australia:				
New South Wales—				
Sydney	Sept. 11—Oct. 8			Dead plague-infected rats found on wharves; 1 rat from vessel from Brisbane.
Queensland	Sept. 17—24			Plague rats found, 28.
Brisbane	Aug. 23		1	Employee in produce store.
Kelvin Grove	Sept. 20		1	Office cleaner at Brisbane; 1 plague rat.
Townsville	Sept. 21		1	2 plague rats found.
Azores:				
Fayal Island—				
Horta	Sept. 4—10	1		
St. Michael Island—				
Capelas	Aug. 6—12	1	1	
Ribeira Grande	Aug. 6—Sept. 24	33	10	10 miles from port of Ponta Delgada.
Brazil:				
Bahia	May 15—June 18	3	2	
Do.	July 31—Aug. 27	2	2	
Maranhao	June 28	1	1	
Pindobassu				Locality 200 miles west of Bahia; plague reported epidemic during August, 1921, with 60 deaths.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa:				
Kenya Colony—				
Kisumu.....	Apr. 24–May 21.....			Present.
Do.....	June 26–Aug. 6.....			Do.
Uganda.....	Mar. 1–June 30.....	133	101	Reports of native chiefs show 2,709 deaths during same period.
Cape Verde Islands:				
St. Vincent.....	Aug. 12–18.....	6	3	
Ceylon:				
Colombo.....	May 8–June 11.....	2	2	
Do.....	June 26–Aug. 27.....	5	5	7 cases rodent plague.
Chile:				
Iquique.....	Sept. 17.....	1		
China:				
Amoy.....	May 15–June 25.....	7	2	
Do.....	July 3–Sept. 10.....		42	Sept. 11–24: Present.
Foochow.....	May 15–21.....			Present.
Hongkong.....	Apr. 24–June 25.....	81	59	May 1–7, 1921: Plague rats found.
Do.....	June 26–Aug. 20.....	38	27	
Manchuria—				
Harbin.....	May 3–22.....	46		
Ecuador:				
Guayaquil.....	May 1–June 15.....	10	1	
Do.....	July 16–Sept. 30.....	9	4	Plague rats found: Aug. 1–Sept. 30, 1921, 133.
Egypt:				
City—				
Alexandria.....	May 21–June 24.....	10	3	
Do.....	July 1–Sept. 30.....	47	11	
Port Said.....	June 16–27.....	4	2	
Do.....	July 1–Sept. 30.....	18	7	
Suez.....	May 20–June 30.....	9	5	
Do.....	July 1–18.....	5	3	
Province—				
Assiout.....	May 24–June 16.....	9	7	
Do.....	July 30.....	1		
Beni-Souef.....	July 10.....	1		
Gharbieh.....	June 2–25.....	7		
Do.....	July 9–Sept. 1.....	9		
Girgeh.....	July 6–13.....	5	4	
Minieh.....	May 28–June 10.....	2	1	
Do.....	July 13–Aug. 18.....	7	3	
Greece:				
Piræus.....	Sept. 23.....	3		
Hawaii:				
Honokaa.....				Plague rat found Sept. 8, 1921.
Kalopa.....	July 15–19.....	1	1	
Paauhau.....	May 21.....	1		
India:				
Bombay.....	May 1–June 25.....	287	201	May 1–June 25, 1921: Cases, 2,093; deaths, 1,624. June 26–Sept. 3, 1921: Cases, 3,570; deaths, 2,572.
Do.....	June 26–Sept. 17.....	69	50	
Calcutta.....	May 8–June 18.....	11	11	
Do.....	July 24–Aug. 6.....	23	21	
Central Provinces.....	Aug. 14–20.....	27	16	
Karachi.....	May 8–June 25.....	18	14	
Do.....	June 26–Oct. 1.....	5	5	
Madras.....	Aug. 20–27.....	1	1	
Madras Presidency.....	May 22–June 25.....	112	72	
Do.....	June 26–Oct. 1.....	1,252	803	
Rangoon.....	Apr. 24–June 25.....	162	142	
Do.....	June 26–Sept. 24.....	501	444	
Indo-China:				
Saigon.....	May 23–June 12.....	4	1	Jan. 1–31, 1921: Cases, 57; deaths, 51.
Do.....	July 10–Aug. 27.....	16	11	Isolated cases in vicinity of Saigon.
Italy:				
Catania.....	Oct. 24.....	1		
Naples.....	Sept. 4–Oct. 7.....	2		Workers in mill; plague-infected rat found on premises.
Java:				
East Java—				
Surabaya.....	July 10–Sept. 17.....	14	13	
Madagascar:				
Tananarive.....	June 20–July 24.....	49	46	Pneumonia.
Mauritius:				
Port Louis.....	Aug. 24.....			Present.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mesopotamia:				
Bagdad.....	Apr. 1-May 31.....	32	35	
Do.....	July 1-31.....	1	1	
Mexico:				
Ciudad Victoria.....	June 7.....	1		In State of Tamaulipas: Case confirmed June 20, 1921.
Progreso.....				Plague rat reported found Sept. 10, 1921.
Tampico.....	June 11-30.....	36		
Do.....	July 1-Aug. 21.....	21	8	Infected rodents found July 1-Oct. 22, 1921, 171. Total, Jan. 1 to Oct. 22, 1921, 283.
Morocco:				
Spanish Zone.....				Reported present in epidemic form Sept. 29, 1921.
Peru.....				Mar. 1-Apr. 30, 1921: Cases, 119; deaths, 64. June 1-30, 1921: Cases, 14; deaths, 10. July 1-15, 1921: Cases, 9; deaths 3. Sept. 1-30, 1921: Cases, 45; deaths, 22.
Department—				
Ancachs.....	Apr. 1-30.....	4	1	At Huarney.
Arequipa.....	Mar. 1-Apr. 30.....	5	3	At Mollendo.
Do.....	July 1-15.....	2		Do.
Cajamarca.....	Sept. 1-30.....			Present. At Bambamarca, Cajamarca, and other localities.
Callao.....	Mar. 1-June 30.....	16	1	At Callao.
Do.....	July 1-Sept. 30.....	6	3	Do.
Lambayeque.....	Mar. 1-Apr. 30.....	3	2	At Chiclayo.
Do.....	Sept. 1-30.....	2		Do.
Libertad.....	Mar. 1-June 15.....	31	15	In 5 localities.
Do.....	Sept. 1-30.....	3		At San Pedro.
Lima.....	Mar. 1-June 30.....	43	23	At Lima City: Cases, 28; deaths, 18.
Do.....	July 1-Sept. 15.....	4	3	At Lima City.
Do.....	Sept. 1-30.....	16	4	At Huacho: Cases, 9; deaths, 1. Lima City: Cases, 2; deaths, 1. Country: Cases, 5; deaths, 2.
Piura.....	Mar. 1-June 15.....	31	29	In 4 localities.
Do.....	Sept. 1-15.....	19	15	Deaths occurred at Secura.
Do.....	Sept. 1-30.....	23	17	At Secura.
Poland.....				In border province, Aug. 9, 1921: Cases, 8.
Porto Rico.....				Total plague-infected rats found from beginning of outbreak to July 9, 1921, 90.
Caguas.....	Aug. 7-20.....	4	2	Sept. 4-21, 1921: Two plague-infected rats found.
Fajardo.....				Aug. 23-Sept. 3, 1921: One plague-infected rat found.
Manati.....	July 17-23.....	1	1	
Martin Pena.....	July 3-9.....	1		Suburb coextensive with Santures.
San Juan.....				Plague rat on steamship San Luis, in San Juan Harbor Sept. 9, 1921.
Portugal:				
Lisbon.....	July 29-Sept. 3.....	7		
Portuguese West Africa:				
Angola—				
Loanda.....	Apr. 24-June 18.....	16		
Do.....	July 17-23.....		1	
Rhodes (Island).....	Sept. 20-24.....	3		1 fatal case reported late in August, 1921.
Russia:				
Siberia—				
Vladivostok.....	Apr. 1-June 30.....		252	First case occurred Apr. 10, 1921.
Do.....	July 1-31.....		4	
Senegal:				
Dakar.....	May 1-June 30.....	54	47	
Do.....	July 1-Aug. 31.....	117	93	
Siain:				
Bangkok.....	Apr. 24-June 18.....	7	6	
Do.....	July 24-Sept. 3.....	16	12	
Straits Settlements:				
Singapore.....	May 8-June 18.....	5	5	
Do.....	June 26-Aug. 20.....	4	4	

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Syria:				
Alexandretta.....	July 10-Aug. 6....	18	4	
Beirut.....	May 31-June 30....	2		
Do.....	July 1-Sept. 4....	17		
Turkey:				
Constantinople.....	July 10-Sept. 24....	6	2	
Union of South Africa.....				January-April, 1921: Cases (white), 6; deaths, 4. Cases (native), 13; deaths, 6. Occurring in the Orange Free State.
On vessels.....				Plague rats reported, Sept. 21, 1921, on vessels from Brisbane, Australia, at Sydney and other ports.
Steamship Kishenev.....	May 2.....	1		At Chefoo, China. Plague death en route. Vessel sent to quarantine, Kentucky Island, where to May 6 a total of 16 deaths was reported. (Public Health Reports, July 1, 1921, p. 1534.)
Steamship Oreland.....				At Genoa, Italy, June 12, 1921; from La Plata, Argentina. Two fatal cases plague in crew en route.
Steamship Ralph Moller... ..	June 8.....	4	1	At Chefoo, China, from Vladivostok, Siberia. Three fatal cases en route. One case with fatal termination removed at Vladivostok.
Steamship San Luis.....	Sept. 9.....			In harbor, San Juan, Porto Rico, Sept. 9, 1921. 1 plague rat.
Steamship Tenyo Maru.....				En route between Nagasaki and Kobe, Japan, June 28, 1921: 1 fatal case.

SMALLPOX.

Algeria:				
Algiers.....	May 1-June 30....	3		
Oran.....	Sept. 1-10.....	1		
Asia Minor:				
Smyrna.....	May 22-28.....	1		On the steamship Nicholas.
Do.....	July 24-Oct. 8....	2		District.
Australia:				
Victoria—				
Geelong.....	May 5-16.....	2		Mild.
Do.....	July 12-29.....	2		
Melbourne.....	Apr. 9-23.....	4	1	Mild epidemic.
Do.....	July 17-23.....	1	1	Slight epidemic reported.
Bolivia:				
La Paz.....	Apr. 1-30.....	5	4	
Brazil:				
Pernambuco.....	Mar. 28-May 22....	28	4	
Rio de Janeiro.....	May 8-June 18....	11	2	
Do.....	June 20-Oct. 1....	117	27	
Sao Paulo.....	May 23-June 26....	7	2	
Do.....	June 27-Sept. 4....	13	2	
British East Africa:				
Kenya Colony—				
Zanzibar.....	May 8-14.....	12	4	Origin, India.
Do.....	Aug. 1-31.....	14	6	Districts and towns.
Bulgaria:				
Sofia.....	May 15-31.....	6		
Canada:				
Alberta—				
Calgary.....	May 26-June 18....	3		
British Columbia—				
Vancouver.....	May 28-June 25....	8		
Manitoba—				
Winnipeg.....	do.....	6		
Do.....	June 28-Oct. 15....	13	1	
New Brunswick—				
Charlotte County.....	July 10-Oct. 18....	11		
Madawaska County.....	Aug. 7-Oct. 15....	3		
Restigouche County.....	June 19-25.....	1		
St. Stephen.....	Oct. 23-29.....	1		
Westmoreland County.....	June 26-July 2....	2		

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

SMALLPOX—Continued.

City.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Nova Scotia—				
Sydney.....	June 5-18.....	2		
Do.....	June 26-July 2.....	4		
Ontario—				
Fort William and Port Arthur.				
Hamilton.....	June 12-18.....	3		
Do.....	July 3-9.....	1		
Kingston.....	June 5-11.....	1		
London.....	June 5-25.....	2		
Montreal.....	June 12-18.....	1		
Do.....	July 17-Oct. 22.....	3		
North Bay.....	June 11-25.....	3		
Do.....	June 26-July 9.....	2		
Ottawa.....	June 12-25.....	21		
Do.....	June 26-Aug. 13.....	35		
Toronto.....	Aug. 28-Sept. 24.....	3		
Saskatchewan—				
Moose Jaw.....	Sept. 4-Oct. 15.....	3		
Saskatoon.....	Sept. 26-Oct. 17.....	12		
Chile:				
Antofagasta.....	May 16-June 19.....	228	106	
Arica.....	May 31.....	2		
Concepcion.....	Sept. 5-19.....	3		
Mejillones.....	May 30-June 5.....			
Valparaiso.....	June 26-Oct. 1.....		49	
China:				
Amoy.....	May 8-June 4.....		4	
Do.....	June 26-Sept. 3.....		2	
Antung.....	May 16-June 26.....	12	2	
Canton.....	Apr. 1-30.....			
Chungking.....	May 1-June 25.....			
Do.....	June 26-Sept. 17.....			
Foochow.....	May 8-June 25.....			
Do.....	June 26-Aug. 27.....			
Hankow.....	May 15-21.....	4	1	
Do.....	July 10-16.....	1		
Hongkong.....	Apr. 21-June 25.....	60	84	
Do.....	July 24-Aug. 20.....	3	1	
Manchuria—				
Dairen.....	May 9-June 26.....	44	5	
Do.....	June 27-Aug. 14.....	8	3	
Harbin.....	May 16-June 13.....	5		
Do.....	June 27-July 10.....	2		
Mukden.....	May 22-June 11.....			
Do.....	July 3-Aug. 20.....			
Nanking.....	May 8-June 25.....			
Do.....	June 26-Aug. 27.....			
Shanghai.....	June 20-26.....	1		
Do.....	July 2-Sept. 17.....	5	1	
Tientsin.....	May 8-June 25.....	31		
Do.....	June 26-Aug. 20.....	9	1	
Tsingtau.....	May 9-June 12.....	4	1	
Do.....	July 25-31.....	1		
Chosen (Korea):				
Chemulpo.....	May 1-June 30.....	11	3	
Fusan.....	do.....	12	3	
Gensan.....	do.....	5	2	
Seoul.....	do.....	3		
Colombia:				
Santa Marta.....	June 5-25.....			
Do.....	June 26-Aug. 27.....			
Cuba:				
Antilla.....	June 5-25.....	7		
Do.....	June 26-Oct. 15.....	71		
Cienfuegos.....	June 26-Sept. 3.....	3		
Matanzas.....	June 12-18.....	1	1	
Do.....	July 3-31.....	4	2	
Nuevitas.....	July 4-Sept. 25.....	15		
Preston.....	Oct. 2-18.....	4		
Santiago.....	June 1-30.....	28	2	
Do.....	July 1-Sept. 30.....	47	1	

At 2 localities in vicinity, 2 cases.

Reported present in Chillan and Mulchen.
Present; also at interior nitrate plants.

June 5-25: Present.
Sept. 11-24: Present.

Present.
Do.
Do.
Do.
Do.

Do.
Do.
Do.
Do.

Mission hospital.

Present.
Do.

6 of those reported found in vicinity.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Dominican Republic.....				In eastern Provinces, Aug. 25, 1921; 2,000 cases, estimated.
La Ramona.....	Aug. 25.....			Cases numerous.
San Pedro de Macoris.....	Aug. 19-Oct. 15....	50	6	On sugar estates in same Province, about 400 cases, Aug. 19-25. Estimated 500 cases in the District of Macoris, 50 of which were within city limits.
Santo Domingo.....	Sept. 1-Oct. 13....	22		In surrounding country.
Ecuador:				
Eloy Alfaro.....	Aug. 1-15.....	1		
Guayaquil.....	May 1-June 30....	31		
Do.....	July 1-Sept. 30....	27	1	
Egypt:				
Cairo.....	Mar. 19-Apr. 29....	2	1	
Port Said.....	Apr. 2-May 20....	10		
Finland.....	May 1-15.....	1		
France:				
Brest.....	May 22-June 4....	18		
Cherbourg.....	Aug. 1-31.....	1		Varioloid.
Paris.....	July 22-31.....	2	1	
Rouen.....	May 1-29.....	2		
Germany.....				Apr. 24-May 28, 1921: Cases, 12. Additional, Apr. 17-May 7, 1921: Cases, 57; deaths, 7.
Great Britain:				
Nottingham.....	May 29-June 4....	1		
Do.....	July 3-Sept. 24....	56		Stated Aug. 17 to be epidemic and to have begun about 2 months previous to date; 57 cases reported.
Queenstown.....	July 3-9.....	1		
Southampton.....	June 26-July 2....	1		
Greece:				
Saloniki.....	June 6-12.....		1	
Haiti:				
Cape Haitien.....	June 19-25.....	24	2	
Do.....	June 26-Oct. 22....	226	20	
Port au Prince.....	Sept. 11-Oct. 22....			Present.
India:				
Bombay.....	May 1-June 25....	84	50	Mar. 20-May 21, 1921: Deaths, 3,232. June 5-25, 1921: Deaths, 958. July 3-9, 1921: Deaths, 393. July 24-30, 1921, 118 deaths.
Do.....	June 26-Sept. 3....	61	42	
Calcutta.....	May 8-June 25....	8	8	
Do.....	June 26-Sept. 10....	9	7	
Karschi.....	May 29-June 25....	25	17	
Do.....	June 26-July 30....	8	2	
Madras.....	May 8-June 25....	33	11	
Do.....	June 26-Oct. 1....	74	41	
Rangoon.....	Apr. 24-June 4....	20	3	
Do.....	July 10-Aug. 13....	4	1	
Indo-China:				
City—				Jan. 1-31, 1921: Cases, 102; deaths, 15.
Saigon.....	May 9-15.....	2	1	
Do.....	Aug. 21-27.....	1	1	
Province—				
Anam.....	Jan. 1-31.....	35		January, 1920: Cases, 16; deaths, 3.
Cambodia.....	do.....	21	3	January, 1920: Cases, 139; deaths, 54.
Cochin China.....	do.....	19	12	January, 1920: Cases, 8; deaths, 1.
Tonkin.....	do.....	27		January, 1920: Cases, 224; deaths, 43.
Italy:				
Catania.....				Province: June 6-20, 1921: Cases, 5.
Do.....	July 18-Aug. 14....			In Province: Cases, 7.
Genoa.....	Apr. 1-May 31....	11		
Do.....	July 4-10.....	2		
Messina.....	May 23-June 26....	2	1	
Do.....	July 11-17.....	1		
Palermo.....	May 18-June 21....	7	1	In Province, July 4-17, 1921: Cases, 9.
Milan.....	Apr. 1-30.....	2		
Do.....	June 29-July 19....	3		
Japan:				
Kobe.....	May 24-June 26....	3		
Nagasaki.....	May 23-June 26....	6	1	
Taiwan Island.....	July 1-10.....	1		

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW
FEVER—Continued.**
Reports Received from July 2 to Nov. 11, 1921—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java—				
Surabaya	June 19-25	2		
Do.	July 10-Aug. 20	10	1	
West Java—				
Bandoeng	May 27-June 3	1		
Do.	July 8-21	1		
Batavia	May 6-June 23	17	15	
Do.	July 1-Sept. 1	106	40	
Buitenzorg	Apr. 29-June 23	16		
Do.	July 22-Aug. 4	2	1	
Garoet	May 6-12	1		
Do.	July 8-Aug. 4	4		
Krawang	Apr. 29-June 30	33	5	
Do.	July 22-Aug. 4	14	1	
Lebak	Apr. 29-May 26	12	2	
Pandeglang	June 3-30	2	1	
Do.	July 8-14	1		
Jugoslavia				Mar. 14-May 13, 1921: Cases, 334; deaths, 83. June 27-July 10, 1921: Cases, 111; deaths, 27.
Mesopotamia:				
Bagdad	Apr. 1-May 31	3	1	
Do.	Aug. 1-31	20	4	
Mexico:				
Chihuahua	May 23-June 27		3	
Do.	Oct. 3-16		4	
Guadalajara	June 1-30	3		
Do.	July 1-Sept. 30	13	3	
Mexico City	May 15-June 25	246		Including municipalities in Federal District.
Do.	June 26-Sept. 17	226		Do.
San Luis Potosi	July 17-Oct. 15		3	
Tampico	July 11-20	1		
Torreón	Sept. 1-30	2		
Vera Cruz	June 13-19		1	
Do.	July 11-Sept. 11		3	
Newfoundland:				
Tilton	Aug. 20-26	3		
Panama:				
Canal Zone	Apr. 1-May 31	2		Jan. 1-Sept. 19, 1921: Cases, 206, of which 33 were nonresidents.
Colon	Jan. 1-May 31	111		
Do.	Aug. 30	1		From the interior.
Panama	Feb. 1-June 30	54		Sept. 4-19; 1 from interior.
Do.	July 1-Sept. 19	4		
Poland:				
District—				
Bialystok	Mar. 1-Apr. 30	3		
Cracovia	.....do.	56	6	
Kielce	.....do.	130	25	
Leopol	.....do.	52	16	
Lodz	.....do.	72	9	
Lublin	.....do.	397	30	
Posen	.....do.	26	2	
Silesia	.....do.	10		In Teschen.
Stanislawow	.....do.	30	5	
Tarnopol	.....do.	156	31	
Warsaw	.....do.	38	4	
Warsaw City	.....do.	90	13	
Portugal:				
Lisbon	May 15-June 25		34	
Do.	June 26-Sept. 24	42	5	
Oporto	June 19-25	1		
Do.	Sept. 11-Oct. 15	2		
Portuguese East Africa:				
Lourenco Marques	May 8-26	8		
Do.	July 10-Sept. 10	14	4	
Rumank:				
District—				
Hotin	Apr. 1-30	40	9	
Orhei	Mar. 1-31	2		
Russia:				
Province—				
Esthonia	Apr. 1-June 30	9		
Do.	July 1-Aug. 30	55		
Latvia	Apr. 1-May 31	41		
Do.	July 1-31	12		
Siberia—				
Vladivostok	June 1-30	1		

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Serbia.....				
Belgrade.....	Aug. 7-20.....	2	1	Mar. 24-May 21: Cases, 105; deaths, 41.
Senegal:				
Dakar.....	May 1-31.....	1	1	
Spain:				
Barcelona.....	May 12-June 22.....		13	
Do.....	July 7-Sept. 28.....		10	
Huelva.....	July 1-31.....		2	
Madrid.....	June 1-30.....	2		
Do.....	Aug. 1-31.....		1	
Malaga.....	May 1-June 30.....		57	
Do.....	July 1-Aug. 31.....		57	
Tarragona.....	May 8-15.....		1	
Valencia.....	May 22-28.....	1		
Do.....	July 2-Aug. 20.....	9	2	
Straits Settlements:				
Singapore.....	June 12-18.....	1		
Do.....	July 10-Sept. 15.....	9	4	
Switzerland:				
Basel.....	Sept. 11-Oct. 1.....	5		
Zurich.....	May 28-June 11.....	10		
Do.....	July 3-Sept. 2.....	4		
Syria:				
Aleppo.....	Apr. 9-16.....			Present.
Beirut.....	May 10-30.....	1	1	
Do.....	Aug. 8-14.....	1	1	
Tunis:				
Tunis.....	May 30-June 17.....	2	3	
Do.....	July 2-Oct. 14.....	15	11	
Turkey:				
Constantinople.....	June 12-25.....	5		
Do.....	June 26-Sept. 24.....	9		
Union of South Africa.....				January-April, 1921: Cases (white), 18; deaths, 1. Cases (native), 192; deaths, 5. May 1-31, 1921: Cases, 65; deaths, 3, all natives. June 1-30, 1921: Cases, 64, of which 1 white. July 1-31, 1921: Natives—Cases, 129; deaths, 2. White—1 case. Aug. 2-Sept. 3, outbreaks in Cape Province, Orange Free State, and Transvaal.
Cape Province.....	Apr. 24-June 25.....			Fresh outbreaks.
Do.....	July 1-Aug. 27.....	118		
Natal.....	Apr. 24-June 25.....			Do.
Do.....	July 1-Aug. 27.....	1		Do.
Durban.....	Aug. 7-27.....	3		Stated to have been imported.
Orange Free State.....	May 29-June 25.....			Outbreaks.
Do.....	Aug. 21-27.....			Present.
Southern Rhodesia.....	July 14-Aug. 31.....	52	19	
Transvaal.....	May 22-June 18.....			Do.
Do.....	July 1-31.....	11		
Johannesburg.....	do.....	2		
Do.....	Sept. 1-10.....	32	11	District.
On vessels:				
Steamship Craster Hall.....				Arrived Mobile, Ala., Oct. 8, 1921, from Buenos Aires, Rio de Janeiro and Barbados. One case in crew removed at Barbados, Sept. 28, 1921.
Steamship Montoro.....	Aug. 31.....	1		At Batavia, Java, from Singapore, Aug. 27. Vessel proceeded from Batavia to Port Darwin and Townsville.
Steamship Niagara.....	June 1.....	1		At Sydney, Australia, from Vancouver via Fiji and New Zealand.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	May 1-June 30.....	100	25	
Do.....	July 1-Oct. 10.....	23	7	
Oran.....	May 22-June 30.....	35	28	
Do.....	July 1-Sept. 10.....	15	13	
Asia Minor:				
Smyrna.....	June 12-18.....	1		In district.
Do.....	Aug. 28-Oct. 8.....	2		
Bolivia:				
La Paz.....	Apr. 1-June 30.....	50	51	
Do.....	July 1-31.....	19	3	
Brazil:				
Bahia.....	June 19-25.....	1	1	
Do.....	Aug. 7-13.....	1	1	
Porto Alegre.....	June 19-25.....		3	
Do.....	Aug. 7-13.....		1	
Canary Islands:				
Teneriffe.....	Aug. 14-Sept. 10.....		2	
Chile:				
Concepcion.....	Apr. 12-June 20.....		8	July 25-Aug. 29, 1921: In hospital,
Do.....	July 12-Sept. 5.....		14	30 cases; in city, estimated, 100
Los Angeles.....	July 26-Aug. 8.....			cases.
Valparaiso.....	Mar. 27-May 28.....		4	Prevalent.
Do.....	June 28-Sept. 17.....		4	
China:				
Antung.....	May 30-June 5.....	1		From report of Japanese Settlement
Do.....	July 27-Oct. 2.....	11		and Danish Mission
Hankow.....	May 22-June 11.....	3		among Chinese.
Manchuria—				
Harbin.....	May 23-29.....	1		
Do.....	July 4-10.....	1		
Chosen (Korea):				
Cheumulpo.....	June 1-30.....	2		
Fusan.....	May 1-31.....	1		
Gensan.....	May 1-June 30.....	4		
Seoul.....	May 1-31.....	1		
Cuba:				
Matanzas.....	Oct. 4-10.....	1		
Czechoslovakia:				
Prague.....	June 5-26.....	5	2	
Egypt:				
Alexandria.....	May 21-June 23.....	21	8	
Do.....	June 24-Oct. 7.....	49	19	
Cairo.....	Mar. 19-June 24.....	235	102	
Do.....	June 24-Aug. 19.....	68	39	
Port Said.....	Apr. 2-May 13.....	8	2	
Finland.....	May 1-15.....	5		
Germany:				
Hamburg.....	May 27-June 4.....	1		Apr. 24-June 4, 1921: Cases, 7.
Great Britain:				
Dublin.....	May 29-June 4.....	1		
Do.....	Oct. 9-15.....	1		
Greece:				
Saloniki.....	May 23-June 26.....	21	6	
Do.....	June 27-Aug. 14.....	1	2	
Guatemala:				
Guatemala City.....	July 1-Sept. 30.....		2	
Hungary:				
				Jan. 1-July 13, 1921: Cases, 71;
				occurring in 4 counties.
Italy:				
Messina (Province).....	Aug. 29-Sept. 4.....	2		In 2 localities.
Japan:				
Nagasaki.....	May 23-June 5.....	7	2	
Jugoslavia:				
Belgrade.....	May 1-14.....	6		Jan. 30-May 11, 1921: Cases, 288;
Zagreb.....	June 19-25.....	3		deaths, 50; June 27-July 10,
Do.....	July 10-Sept. 3.....	37	4	1921: Cases, 23; deaths, 7.
Mesopotamia:				
Bagdad.....	May 1-31.....	1	2	
Do.....	Aug. 1-31.....	1		
Mexico:				
Mexico City.....	May 15-June 25.....	102		Including municipalities in Fed-
Do.....	June 26-Sept. 17.....	173		eral District.
Saltillo.....	Oct. 2-8.....		1	
San Luis Potosi.....	July 31-Aug. 6.....			Present.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Morocco:				
Spanish Zone.....				Reported present in epidemic form Sept. 29, 1921.
Poland.....				Mar. 1-Apr. 30, 1921: Cases, 11,489; deaths, 1,131.
District—				
Bialystok.....	Mar. 1-Apr. 30...	853	45	
Cracovia.....	do.....	603	90	
Kielce.....	do.....	848	62	
Leopol.....	do.....	2,508	277	
Lodz.....	do.....	521	53	
Lublin.....	do.....	1,446	83	
Posen.....	do.....	77	5	
Silesia.....	do.....	26		In Teschen.
Stanislwów.....	do.....	1,557	232	
Tarnopol.....	do.....	1,855	194	
Warsaw.....	do.....	972	61	
Warsaw city.....	do.....	223	29	
Portugal:				
Oporto.....	July 12-Aug. 20...	2		
Rumania:				
District—				
Hotin.....	Apr. 1-30.....	107	10	
Kishinev.....	Apr. 1-June 30...	89		
Do.....	July 1-31.....	11		District.
Orhei.....	Mar. 1-May 30...	146		
Russia:				
Province—				
Esthonia.....	Apr. 1-June 30...	113		
Do.....	July 1-Aug. 31...	56		
Latvia.....	Apr. 1-June 30...	599		
Do.....	July 1-31.....	52		
Libau.....	Sept. 8-15.....	2		
Siberia—				
Vladivostok.....	Mar. 1-June 30...	5	3	
Do.....	July 1-Aug. 31...	22	3	
Serbia.....				Mar. 24-May 21, 1921: Cases, 70; deaths, 7.
Spain:				
Madrid.....	May 1-June 30...		3	
Do.....	July 1-31.....		2	
Syria:				
Beirut.....	May 20-June 10...	1	1	
Tunis:				
Tunis.....	June 11-17.....		3	
Do.....	July 30-Sept. 9...		2	
Turkey:				
Constantinople.....	May 22-June 18...	11		
Do.....	June 25-Oct. 8...	50	2	
Union of South Africa.....				January - April, 1921: Cases (white), 34; deaths, 2. Cases (native), 3,376; deaths, 437. June 1-30, 1921: Cases, 738; deaths, 66. July 1-31, 1921: Natives—cases, 368; deaths, 121. White—cases, 15; deaths, 2. Orange Free State and Natal: Cases, 25; deaths, 10.
Cape Province.....				Apr. 24-June 25, 1921: Outbreaks; May 1-31, 1921: Cases, 542; deaths, 51. July 1-31, 1921: Cases, 833; deaths, 123.
Capetown.....	May 13-19.....	10	3	At native cantonment in vicinity.
East London.....	May 22-June 18...	1	1	
Do.....	Aug. 21-27.....	1		
Port Elizabeth.....	Aug. 7-20.....	7		
Natal.....	July 10-Aug. 27...			Outbreaks.
Orange Free State.....				Apr. 24-May 28, 1921: Outbreaks.
Do.....	July 10-Sept. 3...			Outbreaks.
Transvaal—				
Johannesburg.....	Sept. 4-10.....			Outbreaks in surrounding country.
Venezuela:				
Maracalbo.....	June 21-27.....		1	
On vessel:				
Steamship Norden.....	Aug. 18.....	1		At Marcus Hook Quarantine, Pa., from Tampico, Mexico, via Nuevitas, Cuba.

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

Reports Received from July 2 to Nov. 11, 1921—Continued.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
British Honduras:				
Belize.....	Aug. 22-Oct. 1....	17	6	
Mexico:				
Alamo.....	June 1-30.....	10		State of Vera Cruz.
Do.....	July 19.....	4	1	
Barra de Penn.....	July 17-23.....	1	1	Do.
Casamaloapam.....	do.....	3	1	Do.
El Dorado.....	Oct. 7.....			Present. Sept. 25-Oct. 2, 1921, deaths, 40. Oct. 2, deaths, 5;
Manzanillo.....				June 1-Sept. 30, 1921: Cases, 19; deaths, 10.
Do.....	Oct. 9-15.....	1		Oct. 7: Present.
Mazatlan.....	do.....			Present.
Playa Obispo.....	Aug. 23.....	1		Territory of Quintana Roo.
Tampico.....	July 11-17.....	3	2	State of Tamaulipas.
Tierra Blanca.....	Sept. 19.....	1		Case arrived at Vera Cruz on steamship Monterey from Pro- greso, Mexico.
Tlacotalpan.....	Sept. 25.....			Present.
Tuxpam.....	July 25-Oct. 14.....	2	1	State of Vera Cruz. Oct. 15: Several cases present in vicinity.
Vera Cruz.....	June 13-27.....	7		Do.
Do.....	July 25-Sept. 25.....	6	4	Do.
Zapotlan.....	July 14.....	1	1	Do.
Peru.....				Mar. 1-Apr. 30, 1921: Cases, 172; deaths, 57. June 1-30, 1921: Cases, 25; deaths, 13. July 1- 15, 1921: Cases, 2.
Department—				
Callao—				
Callao.....	Apr. 1-30.....	1		At quarantine station. From Chiclayo.
Lambayeque—				
Chiclayo.....	Mar. 1-June 15.....	47	18	
Chongollape.....	Mar. 1-Apr. 30.....	12	3	
Ferrenafe.....	Mar. 1-31.....		1	
Jayanca.....	Apr. 1-30.....	5	2	
Lambayeque.....	Mar. 1-Apr. 30.....	20	7	
Monsefu.....	Mar. 1-June 15.....	29	9	
Motupe.....	Mar. 1-Apr. 30.....	46	12	
Olmos.....	Apr. 1-30.....	2	4	
Pacora.....	June 1-15.....	1		
Pomalca.....	Mar. 1-31.....	5	1	
Villa Eten.....	Mar. 1-Apr. 30.....	7	1	
Zana.....	Apr. 1-30.....	1		
Libertad—				
Casa Grande.....	June 1-15.....	1		On farm.
Guadalupe.....	Apr. 1-30.....	2		
Monteseo.....	July 16-31.....	1		
Pacanga.....	June 1-30.....	2	2	
Pacasmayo.....	July 1-15.....	1		
Patjan.....	June 1-30.....	13	7	
Do.....	July 1-15.....	1		
Pueblo Nuevo.....	Apr. 1-30.....	1	1	
Trujillo.....	Apr. 1-June 15.....	2	2	Country.
On vessels:				
Barge J. S. McGaughey.....	Oct. 6.....	1		At quarantine station, Pensa- cola, Fla., from Tampico, Mex- ico, Sept. 30.
Steamship Lurline.....	Aug. 13-27.....	2	1	At Mazatlan, Mexico, from Man- zanillo, Mexico (Public Health Reports, Sept. 16, 1921, p. 2202).
Steamship Monterey.....	Sept. 18.....	1		At Vera Cruz from Progreso, Mexico, Sept. 15, 1921. Patient went to Tierra Blanca.
Steamship Washington.....	Aug. 29.....	1		At Mazatlan, Mexico.