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THE PREVENTION OF SIMPLE GOITER.¹

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The most important step toward the prevention of any chronic disease is the proper education of the people as a whole. It is not sufficient for physicians alone to know the great danger of the unchecked progress for months or years of any chronic disease like tuberculosis, tumorous growths, or goiter. If progress toward prevention is to be made, everybody must know what to do and why to do it.

Every problem in preventive medicine has been developed by a gradual process of evolution, and the prevention of goiter is no exception to this rule. Considering the thousands of years during which goiter has troubled the human race, the development of a method of prevention has been slow indeed; but as compared with the accomplishments of the comparatively new science, biological chemistry, this development has been very rapid and direct, and no principle in preventive medicine has a firmer physiologic and chemical foundation than that which underlies the prevention of goiter.

Simple, or endemic, goiter is one of the most insidious diseases which attack man and animals. The sum total of its ravages throughout all ages and in all lands is still unrealized by the public generally, notwithstanding the numerous reports issued by commissions appointed for its study. Those who live by the seacoasts fortunately have had no need to be concerned, and before the days of extensive travel those who lived in endemic goiter districts grew so accustomed to the presence of goiter that they considered it a natural and normal development. Indeed, in many districts of the world a goiter is still considered a mark of beauty.

Under the classification of *simple goiter* we now include all those thyroid enlargements in man and animals which were formerly designated as endemic, epidemic, sporadic, and physiologic or adolescent goiter. Simple goiter is sharply differentiated from exoph-

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thalmic goiter, with which it has no necessary association or etiologic relationship. Simple goiter *may* develop sporadically in any locality, even at sea, as was reported to have happened on one of Captain Cook's voyages, but it is preeminently associated with certain regions or districts.

The most noted of these endemic goiter districts are: (1) The Alpine Mountain region of southern Europe, including all Switzerland, northern France, northern Italy, and the so-called Balkan States; (2) the Himalayan Mountain region of eastern and southern Asia, the Gilget district of northern India, and the plateau regions of western China and eastern Mongolia; (3) the Andes Mountain region of South America, the most noted section of which is the Peruvian Plateau; and (4) in North America the entire basin of the Great Lakes, the basin of the St. Lawrence, and that portion of the United States and Canada known as the Pacific Northwest. There are certain localities in these large districts in which the incidence of goiter is very high. For instance, in parts of British Alberta and Columbia and in some of the glacial valleys of southern Alaska all the domestic animals have goiter; and in a well-known valley of British Columbia, called Pemberton Meadows, the incidence of goiter was so great that it was difficult to raise young animals, such as calves, lambs, and pigs. Since 1918, however, the disease has been controlled by the addition of a small amount of iodine to the food and drink in accordance with the fundamental principle of goiter prevention.

RELATION OF IODINE TO THE THYROID GLAND.

The early Greeks unknowingly employed iodine in the treatment of goiter, for they employed the ash of burnt sea sponges, ignorant of the fact that this substance had a rich iodine content. Iodine has been knowingly used in the treatment of goiter since 1820, when it was so employed by Coindet. That the active principle of the thyroid is a very stable compound of iodine was first recognized by Bauman in 1895, and the compound was finally isolated in crystalline form by Kendall in 1916. In 1896 Halstead showed that after the removal of a portion of the thyroid gland of a dog the remainder would start to enlarge. It was later found by Marine that if five-sixths of a dog's thyroid were removed and the remaining one-sixth kept saturated with iodine there was no tendency toward enlargement. The further experiments of Marine and Lenhart show that a goiter can not be produced in an animal if the thyroid is kept saturated with iodine, while, on the other hand, if an animal is deprived of iodine the thyroid will start to enlarge as soon as the iodine content gets below one-tenth of 1 per cent of the total amount of dried gland tissue. These investigators showed also that when the iodine

content of the thyroid glands in pregnant animals is deficient, the young are born with goiters, while, on the other hand, this tendency toward goiter formation in the young could be prevented by maintaining a normal iodine content in the mother's thyroid. Marine and Lenhart demonstrated the definite relation of the iodine content of the thyroid to the cellular hyperplasia and glandular hypertrophy. Their conclusions can be summarized as follows:

1. Iodine is necessary for normal thyroid function.
2. The iodine content varies inversely with the degree of hyperplasia.
3. The percentage of iodine present in individual thyroids is variable, but there is a quite constant minimum percentage which is necessary for the maintenance of normal or colloid gland structure. If the iodine content falls below one-tenth of 1 per cent, active hyperplasia begins.

Also, iodine is necessary for the physiological activity of the thyroid secretion. Kendall showed that this active iodine compound, which he isolated in pure crystalline form, is tri-iodo-indol-propionic acid. He found also that if he substituted either of the halogens for the iodine in this salt he would still have a stable chemical compound, but one which had lost all its physiological activity.

The first practical application of the use of iodine in the prevention of goiter on a large scale was the prevention of goiter in fish, which was undertaken by Doctors Marine and Lenhart, in collaboration with the Pennsylvania State Fish and Game Commission, at the State fish hatcheries at Shady Grove, Pa., in 1909, the work continuing to 1911. At this hatchery the presence of enlarged thyroids had become so serious that the question of abandoning the industry was under consideration. The workers found that the condition was due to two factors—overcrowding and overfeeding with an artificial food. They found that by the addition of a small amount of iodine to the food or water the goiters disappeared. This practical demonstration and his previous experimental data were the basis of Marine's dictum that "*Simple goiter is the easiest known disease to prevent.*"

To appreciate why we attempt to apply the method of goiter prevention only to girls through the period of adolescence and to women during pregnancy, it is necessary to understand the function of the thyroid gland. This can best be explained by describing what happens to individuals who have no thyroid gland or in whom its normal function has ceased. When a child is born without a thyroid gland or with insufficient gland tissue, it can not grow or develop like a normal child, but becomes a cretin (dwarf). It may never be strong enough to walk, probably will not be able to talk, and is sure to be very dull mentally, if not an idiot. The thyroid gland also plays a very important part in the normal growth and development

during adolescence. Without thyroid function the normal development at puberty does not take place, and the sex organs and breasts remain infantile and finally become atrophic. The thyroid function is equally important during pregnancy, for it controls the normal rate of growth and development of the fetus. Insufficient thyroid function in the mother causes the immature thyroid of the fetus to attempt to function, and this produces a goiter, i. e., the child will have a congenital goiter and, in many cases, an adenoma or tumorous condition of the thyroid in addition. The great majority of goiters in boys and men are of this character.

The reason for the development of goiters at these two periods—adolescence and intra-uterine life—is that there is an unusual demand for thyroid activity at these periods in order to keep up the normal rate of metabolism (building up and tearing down of tissues), and thus bring about the normal development of the body. A similar condition of overwork may follow any chronic disease like tuberculosis, or any febrile condition such as pneumonia or typhoid fever. It is common knowledge among physicians that goiter frequently develops during or following a long severe illness. But the two preeminent periods of goiter development which bear a direct relation to physiological development are *adolescence* and *pregnancy*.

The first application of the principle of goiter prevention as a public-health measure was begun in the public schools of Akron, Ohio, in 1916 and continued through 1920. This work was carried out by Doctor Marine and myself and was paid for by a grant from the Department of Therapeutic Research of the American Medical Association. It was so arranged that a careful examination of the thyroid of each girl from the fifth to the twelfth grade, inclusive, was made and recorded once each year. In the first examination, 56 per cent of these girls were found to have enlarged thyroids. Most of these goiters, of course, were small; but the physiology of an enlarged thyroid does not vary, whatever its size, and unless the iodine deficiency is met, the gland will certainly continue to enlarge.

The method of prevention used in the Akron schools was the administration of 3 grains of sodium iodide in the drinking water once each day for two weeks each spring and fall. No girl was asked or permitted to take this dose without a written permit from a parent or guardian. Almost 10,000 girls were examined during the three years, and approximately half of these elected to take the prophylactic treatment. The others elected not to take it. Of those taking the prophylactic dose of iodine, not a single normal girl developed thyroid enlargement or goiter, although two girls in very poor health did develop small goiters. This latter occurrence merely shows that in some unusual cases it takes more iodine than we were using to keep the thyroid saturated. Among the girls not taking the iodine as a

preventive, 27.6 per cent of those without goiter in the beginning developed goiter, and in many of these the goiters became quite large. The goiters disappeared in over 60 per cent of the girls who had goiter at first and took the prophylactic iodine; while among those

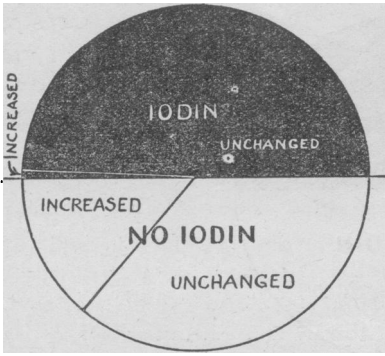


FIG. 1.—Comparison of the changes in normal thyroids of school girls with and without prophylactic treatment (see table).

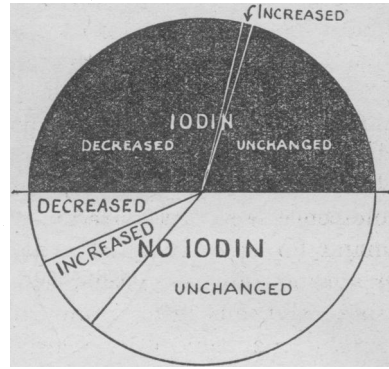


FIG. 2.—Comparison of the changes in slightly enlarged thyroids of school girls with and without administration of iodine (see table).

who had goiter at first and did not take any iodine, the enlargement disappeared in very few. (See Table I and Figs. 1, 2, and 3.)

TABLE I.—Summary of records of pupils taking and not taking prophylactic treatment.

	Taking treatment.		Not taking treatment.	
	Total.	Per cent.	Total.	Per cent.
Normal:				
Unchanged	906	99.8	910	72.4
Increased	2	.2	347	27.6
Slightly enlarged:				
Unchanged	477	41.9	698	72.8
Increased	3	.3	127	13.3
Decreased	659	57.8	134	13.9
Moderately enlarged:				
Unchanged	29	20.3	57	64.0
Increased			21	23.6
Decreased	114	79.7	11	12.4
Total	2,190		2,305	

In brief, the results of this application of the principle of goiter prevention were just as definite as when it was applied to the prevention of goiter in fish or in the experimental laboratory. From our experience in Akron we know that if a girl's thyroid is kept saturated with iodine during the years of adolescence, a goiter will not develop; and when we remember that the total storage capacity of the normal thyroid is approximately three-fourths of 1 grain of iodine, we appreciate that a small fraction of a grain of iodine at weekly intervals is sufficient to assure the full normal iodine content of the gland. This

method of goiter prevention is absolutely safe; it is easily applied; it is entirely practicable.

In 1917 we sent our first publication to Professor Klinger in Zurich, Switzerland, with the hope that this method of goiter prevention would be tried there; and early in 1918 work was begun in

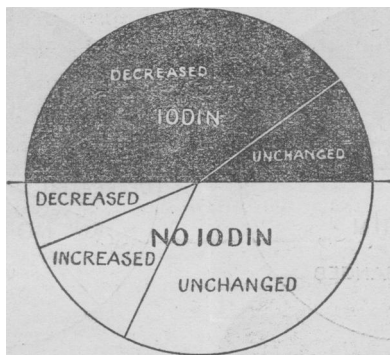


FIG. 3.—Comparison of the changes in moderately enlarged thyroids of school girls with and without administration of iodine (see table).

the schools of Zurich. It was found that in some of these schools 100 per cent of the children were goitrous; and because of the high incidence of goiter in that region in both sexes throughout all ages, the prophylactic treatment was given to both boys and girls through all the grades. Our suggestion was accepted—that a few

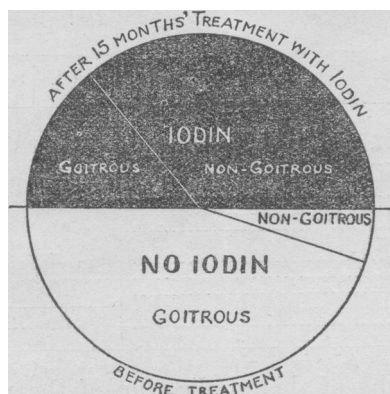


FIG. 4.—The effect of iodine administration on the comparative percentage of goitrous and nongoitrous school children in Zurich, Switzerland. (From Klinger's Statistics.)

milligrams of iodine given weekly throughout the year would produce optimum effects (Fig. 4). Instead of sodium iodide, which we were using, the Zurich authorities employed an organic iodide which is nonhygroscopic, practically tasteless, and very stable—a vegetable fatty acid compound which is combined with chocolate and made

into tablets, each containing 5 milligrams of iodine. This preparation is pleasant to take and keeps indefinitely.

This method has been employed in all the schools of the Cantons of St. Gall, Berne, and Zurich for more than three years, with even more striking results than those obtained by us in this country. A recent report of the Health Commission of the Canton of St. Gall gives the following statistics: Incidence of goiter among all the school children of the Canton of St. Gall—January, 1918, 87.6 per cent; January, 1922, 13.1 per cent.

On account of the extraordinary results obtained in these three cantons during the past three years, the Goiter Commission of Switzerland last spring recommended that this method of goiter

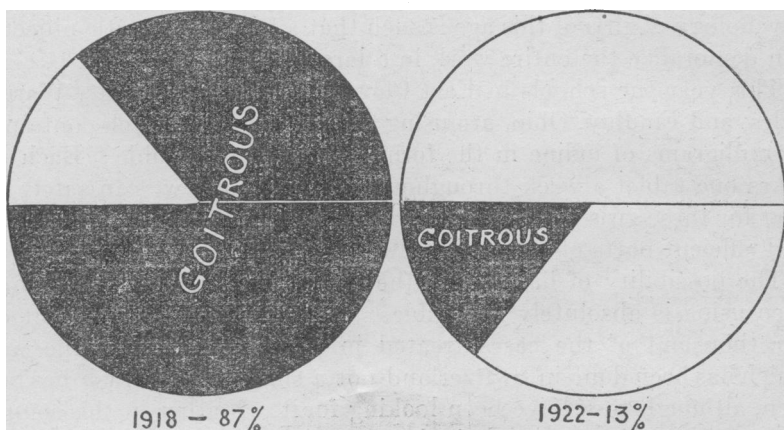


FIG. 5.—Effects of iodine prophylaxis for three years on all the school children in St. Gall, Switzerland

prevention be instituted as a public-health measure throughout the entire State, which is the most noted endemic goiter district in the world.

During these years the work has been extending in this country. Following the work in Akron, the schools in the adjoining counties of Kent and Ravenna adopted the same method of prevention in 1919. The village of Berea, Ohio, also has been administering iodine for the prevention and treatment of goiter through the schools. The same method is in use in the schools of Warren and Niles, but in these places iodine is given only to pupils in whom a goiter has started to develop. This method of treatment is being practiced also in some of the large factories in Cleveland, in which many girls are employed.

In at least a dozen other cities in Michigan, Ohio, and Wisconsin some effort is being made to carry out this public-health measure through the public schools, but nothing definite has been accomplished as yet.

In the Cleveland district, the school physicians, the board of health, and the Academy of Medicine have been endeavoring to popularize the idea of goiter prevention.

The method used in the schools here is fundamentally the same as that employed in Akron. For the past two years tablets of sodium iodide (sodium iodide, gr. 1, with sugar of milk) have been used, but these have not proved very successful. Very few were actually used in East Cleveland, Cleveland Heights, and Shaker Heights, and only 10,000 tablets were used in all of the Cleveland schools. After studying this particular phase of the work in these districts, from the viewpoint of the girls, their parents, and teachers, and from our own experiences in the work at Akron, we find the greatest difficulty is the disagreeable taste of sodium iodide. The psychology of girls of this age is such that a few enthusiastic objectors can demoralize the entire work in a large school.

This year the schools in East Cleveland, Shaker Heights, Warren, Niles, and Findlay, Ohio, are using chocolate tablets, each containing 10 milligrams of iodine in the form of an organic iodide. Each girl takes one tablet a week throughout the year; and we can safely say that for these girls goiter prevention will be one of the most pleasant and efficient parts of their school work.

The possibility of harm from the dosage of iodine which we have been using is absolutely negligible. We saw a mild rash in but one per thousand of the cases treated in Akron, and in all the work which has been done in Switzerland not a single case of rash has been seen, although they have been looking for it. Neither in this country nor in Switzerland has a single case of exophthalmic goiter been produced.

SUMMARY.

In these endemic goiter districts, if every woman would keep her thyroid saturated with iodine during every pregnancy, she would not develop goiter, nor would there be any tendency toward goiter formation in the thyroid of her child. This would save two of the goiter periods in the life of any woman. Then, if every girl would keep her thyroid saturated with iodine during adolescence—that is, from the age of 11 to 16, inclusive—none would develop goiter.

As to the prevention of goiter in boys, the following facts are pertinent:

- (1) Goiter is at least six times more frequent in girls than in boys.
- (2) A large majority of goiters in boys are congenital and could be prevented by the administration of iodine to the mother during pregnancy.
- (3) While occasionally a boy does develop goiter at puberty, or after illness, or as the result of some chronic infection, in most cases the goiter will disappear if it is treated promptly and properly.

We feel, therefore, that the maximum good from a minimum effort would be gained by applying the principle of goiter prevention to girls as a public health measure. This can best be done through our public school organization; and the education on this subject will insure application of this method of goiter prevention in later life. The prevention of goiter during pregnancy necessarily depends on the medical profession and on the education of the people as a whole. Each family physician and obstetrician should make this an important part of the routine care of every patient; and the diffusion of this knowledge must be such that each expectant mother will anticipate such care.

EXTENT OF RURAL HEALTH SERVICE IN THE UNITED STATES.

By L. L. LUMSDEN, Surgeon, United States Public Health Service.

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 at the beginning of the calendar years 1920, 1921, 1922, and 1923, 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, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers.*

1920	1921	1922	1923
ALABAMA.			
Calhoun. Colbert. Elmore. 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.	Baldwin. Barbour. Calhoun. Colbert. Dallas. Etowah. Houston. Jefferson. Lauderdale. Madison. Mobile. Montgomery. Morgan. Pike. Sumter. Talladega. Tuscaloosa. Walker.	Baldwin. Barbour. Calhoun. Colbert. Covington. Dallas. Etowah. Houston. Jefferson. Lauderdale. Madison. Mobile. Montgomery. Morgan. Pike. Sumter. Talladega. Tuscaloosa. Walker.
ARKANSAS.			
Sebastian.			

TABLE I.—List of counties, or districts, in which, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers—Continued.

1920	1921	1922	1923
CALIFORNIA.			
Los Angeles.		Los Angeles. San Francisco.	Los Angeles. Monterey. Orange. San Francisco. San Luis Obispo.
GEORGIA.			
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.	Baldwin. Bartow. Brooks. Clarke. Cobb. Decatur. Dougherty. Floyd. Glynn. Hall. Laurens. Lowndes. Mitchell. Sumter. Thomas. Troup. Walker. Worth.	Baldwin. Bartow. Clarke. Cobb. Decatur. Dougherty. Floyd. Fulton. Glynn. Hall. Laurens. Lowndes. Mitchell. Richmond. Sumter. Thomas. Troup. Walker.
IDAHO.			
		Bannock. Twin Falls. Boise.	
ILLINOIS.			
			Morgan.
INDIANA.			
			Fulton.
IOWA.			
		Dubuque.	Dubuque.
KANSAS.			
Butler. Cherokee. Ford. Geary. Marion.	Butler. Cherokee. Ford. Geary. Marion.	Butler. Cherokee. Ellis. Ford. Geary. Marion. Ottawa. Wabaunsee.	Butler. Cherokee. Ellis. Ford. Geary. Marion. Ottawa. Wabaunsee.

TABLE I.—*List of counties, or districts, in which, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers—Continued.*

1920	1921	1922	1923
KENTUCKY.			
Mason.	Boyd. Davies. Fulton. Harlan. Jefferson. Mason. Muhlenberg. Scott.	Bell. Boyd. Davies. Fulton. Harlan. Mason. Muhlenberg. Scott.	Boyd. Davies. Fulton. Harlan. Jefferson. Johnson. Mason. Scott.
LOUISIANA.¹			
Rapides.	Rapides.	Beauregard. Caddo. De Soto. Natchitoches. Ouachita. Rapides. Washington.	Beauregard. Caddo. De Soto. Natchitoches. Ouachita. Rapides. Washington.
MAINE.²			
			Oldtown. Rumford. Sanford. Waterville. York.
MARYLAND.			
		Washington.	Allegany. Montgomery.
MASSACHUSETTS.			
		Cape Cod. ²	Cape Cod. ²
MICHIGAN.			
St. Clair.			
MISSISSIPPI.			
Grenada. Harrison. Lee. Monroe. Pike.	Bolivar. Harrison. Jones. Lee.	Bolivar. Coahoma. Forrest. Harrison. Jones. Lee. Marshall. Union. Washington.	Bolivar. Coahoma. Forrest. Harrison. Hinds. Jones. Lauderdale. Lee. Leflore. Marshall. Tallahatchie. Washington.

¹ Parishes.

² District.

TABLE I.—List of counties, or districts, in which, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers—Continued.

1920	1921	1922	1923
MISSOURI.			
	Greene.	Greene. Jasper.	Cape Girardeau. Dunklin. Gentry. Greene. Jasper. Monroe. New Madrid. Nodaway. Pettis. Polk. St. Francois.
MONTANA.			
Missoula. Yellowstone.	Cascade. Missoula. Yellowstone.	Cascade. Lewis and Clark. Missoula. Yellowstone.	Cascade. Lewis and Clark. Missoula. Yellowstone.
NEW MEXICO.			
	Bernalillo. Chaves. San Miguel. Santa Fe. Union.	Bernalillo. Chaves. San Miguel. Santa Fe. Torrance. Union. Valencia.	Bernalillo. Chaves. Dona Ana. Eddy. San Miguel. Santa Fe. Union. Valencia.
NEW YORK.			
Lake George.*			
NORTH CAROLINA.			
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.	Bertie. Bladen. Buncombe. Cabarrus. Columbus. Craven. Cumberland. Davidson. Durham. Edgecombe. Forsythe. Granville. Guilford. Halifax. Lenoir. Mecklenburg. New Hanover. Northampton. Pamlico. Pitt. Robeson. Rowan. Sampson. Surry. Vance. Wake. Wayne. Wilkes. Wilson.	Bertie. Bladen. Buncombe. Cabarrus. Carteret. Columbus. Craven. Cumberland. Davidson. Durham. Edgecombe. Forsythe. Granville. Guilford. Halifax. Lenoir. Mecklenburg. New Hanover. Northampton. Pitt. Robeson. Rowan. Sampson. Surry. Vance. Wake. Wayne. Wilkes. Wilson.

* District.

TABLE I.—*List of counties, or districts, in which, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers—Continued.*

1920	1921	1922	1923
OHIO.			
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.	Allen. Ashtabula. Belmont. Butler. Champaign. Clermont. Clinton. Columbiana. Coshocton. Crawford. Cuyahoga. Erie. Greene. Hamilton. Highland. Hocking. Lake. Lorain. Lucas. Madison. Mahoning. Marion. Miami. Monroe. Montgomery. Morrow. Muskingum. Paulding. Ross. Sandusky. Scioto. Seneca. Shelby. Stark. Summit. Trumbull. Union. Washington. Wayne. Wood.	Allen. Ashtabula. Auglaize. Belmont. Butler. Champaign. Clermont. Clinton. Columbiana. Coshocton. Crawford. Cuyahoga. Erie. Hamilton. Hocking. Huron. Lake. Lorain. Lucas. Madison. Mahoning. Marion. Miami. Monroe. Montgomery. Morrow. Muskingum. Paulding. Perry. Ross. Sandusky. Scioto. Seneca. Shelby. Stark. Summit. Trumbull. Tuscarawas. Union. Washington. Wayne. Wood.
OKLAHOMA.			
Ottawa.	Ottawa.	Ottawa.	Ottawa.
OREGON.			
			Coos.
SOUTH CAROLINA.			
Calhoun. Darlington. Fairfield. Lee. Newberry. Orangeburg.	Calhoun. Charleston. Cherokee. Darlington. Fairfield. Lee. Newberry. Orangeburg.	Charleston. Cherokee. Darlington. Fairfield. Greenville. Newberry. Orangeburg.	Charleston. Cherokee. Darlington. Fairfield. Greenville. Newberry. Orangeburg.
SOUTH DAKOTA.			
		Brown.	Brown.

TABLE I.—List of counties, or districts, in which, as of January 1, 1920, 1921, 1922, and 1923, respectively, rural sections were provided with local health service under whole-time health officers—Continued.

1920	1921	1922	1923
TENNESSEE.			
Hamilton.		Davidson. Montgomery. Roane. Williamson.	Davidson. Gibson. Montgomery. Roane. Williamson.
TEXAS.			
Bell. Jefferson. Tarrant. Wichita. Williamson.	Bell. Dallas. Jefferson. Tarrant. Wichita. Williamson.	Dallam. Dallas. Hidalgo. Jefferson. Tarrant.	Cherokee. Dallam. Dallas. Hidalgo. Jefferson. Tarrant.
UTAH.			
		Weber.	Weber.
VERMONT.¹			
First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth.	First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth.	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.	Albermarle. Arlington. Augusta. Clarke. Fairfax. Fauquier. Halifax. Henry. Norfolk. Tazewell.	Abermarle. Arlington. Augusta. Fairfax. Fauquier. Halifax. Norfolk. Tazewell. Wise.	Albemarle. Arlington. Augusta. Fairfax. Halifax. Nansemond. Norfolk. Russell. Wise.
WASHINGTON.			
Yakima.	King. Spokane. Walla Walla. Yakima.	King. Spokane. Walla Walla. Yakima.	Chelan. King. Spokane. Yakima.
WEST VIRGINIA.			
	Greenbrier.	Greenbrier. Logan. Mingo.	Logan. Marion. Mingo. Preston.

¹ Districts.

Résumé of Table 1.

State.	Number of counties.				Increase or decrease in 1920.	Increase or decrease in 1921.	Increase or decrease in 1922.
	1920	1921	1922	1923			
Alabama.....	12	16	18	19	+4	+2	+1
Arkansas.....	1	0	0	0	-1		
California.....	1	0	2	5	-1	+2	+3
Georgia.....	16	17	18	18	+1	+1	
Idaho.....	0	0	3	0		+3	-3
Illinois.....	0	0	0	1			+1
Indiana.....	0	0	0	1			+1
Iowa.....	0	0	1	1		+1	
Kansas.....	5	5	8	8		+3	
Kentucky.....	1	8	8	8	+7		
Louisiana.....	1	1	7	7		+6	
Maine.....	0	0	0	5			+5
Maryland.....	0	0	1	2		+1	+1
Massachusetts.....	0	0	1	1		+1	
Michigan.....	1	0	0	0	-1		
Mississippi.....	5	4	9	12	-1	+5	+3
Missouri.....	0	1	2	11	+1	+1	+9
Montana.....	2	3	4	4	+1	+1	
New Mexico.....	0	5	7	8	+5	+2	+1
New York.....	1	0	0	0	-1		
North Carolina.....	17	25	29	29	+8	+4	
Ohio.....	16	36	40	42	+20	+4	+2
Oklahoma.....	1	1	1	1			
Oregon.....	0	0	0	1			+1
South Carolina.....	6	8	7	7	+2	-1	
South Dakota.....	0	0	1	1		+1	
Tennessee.....	1	0	4	5	-1	+4	+1
Texas.....	5	6	5	6	+1	-1	+1
Utah.....	0	0	1	1		+1	
Vermont.....	10	10	10	10			
Virginia.....	6	10	9	9	+4	-1	
Washington.....	1	4	4	4	+3		
West Virginia.....	0	1	3	4	+1	+2	+1
Total.....	109	161	203	231	+52	+42	+28

In view of the general sentiment for a decrease in the taxation rate the net increase within the calendar year 1922 in the number of counties provided with whole-time health service indicates progress by our rural communities in appreciation of the gain realized from investment of public funds for local public-health service under good business management.

The number of counties, or comparable districts, wholly or in large part rural, with health service approaching adequacy under the direction of whole-time county or district health officers has increased from 1 in 1911 to 231 in 1922. Even that degree of progress is somewhat encouraging, but with some 2,850 counties wholly or in large part rural in the United States, it is evident that only a fair beginning has been made in this vitally important field.

The gain of 122 in the three years 1920-1922 was made possible largely by increase in investment by State and county governments and private agencies. The annual appropriation by the Federal Government for cooperation in rural sanitation has remained fixed at \$50,000 since the fiscal year 1920.¹

¹ Reprint No. 788 from Public Health Reports, Sept. 29, 1922.

The following (Table II) presents, by States, the percentage of rural population having, at the beginning of 1923, local health service under the direction of whole-time county (or district) health officers:

TABLE II.—Percentage of rural population having, on January 1, 1923, local health service under whole-time county or district health officers.

State.	Rural population (census 1920).	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.
Alabama.....	1,838,857	671,292	36.50
Arizona.....	216,635	0	0
Arkansas.....	1,461,707	0	0
California.....	1,095,132	208,108	19.00
Colorado.....	486,370	0	0
Connecticut.....	444,292	0	0
Delaware.....	102,236	0	0
Florida.....	612,645	0	0
Georgia.....	2,167,973	357,748	16.50
Idaho.....	312,829	0	0
Illinois.....	2,082,127	17,854	.85
Indiana.....	1,447,535	12,758	.88
Iowa.....	1,528,526	19,121	1.25
Kansas.....	1,151,293	121,927	10.59
Kentucky.....	1,783,087	158,717	8.90
Louisiana.....	1,170,346	191,183	16.33
Maine.....	468,445	25,127	5.36
Maryland.....	580,239	62,183	10.71
Massachusetts.....	202,108	16,562	8.19
Michigan.....	1,426,852	0	0
Minnesota.....	1,335,532	0	0
Mississippi.....	1,550,497	342,639	22.09
Missouri.....	1,817,152	246,153	13.54
Montana.....	376,878	47,211	12.52
Nebraska.....	891,066	0	0
Nevada.....	62,153	0	0
New Hampshire.....	163,322	0	0
New Jersey.....	680,964	0	0
New Mexico.....	285,390	94,365	31.94
New York.....	1,795,383	0	0
North Carolina.....	2,068,753	822,525	39.75
North Dakota.....	558,633	0	0
Ohio.....	2,082,258	1,111,306	53.37
Oklahoma.....	1,488,803	19,435	1.30
Oregon.....	392,370	14,955	3.81
Pennsylvania.....	3,112,202	0	0
Rhode Island.....	15,217	0	0
South Carolina.....	1,389,737	273,636	19.68
South Dakota.....	534,675	14,972	2.80
Tennessee.....	1,726,659	146,591	8.48
Texas.....	3,150,539	162,309	5.15
Utah.....	233,812	10,659	4.55
Vermont.....	242,452	242,452	100.00
Virginia.....	1,635,203	272,737	16.67
Washington.....	607,886	154,495	25.41
West Virginia.....	1,094,694	118,596	10.83
Wisconsin.....	1,387,499	0	0
Wyoming.....	137,054	0	0
Total.....	51,406,017	5,957,616	11.58

These data, indicating that only 11.58 per cent of our rural population are protected with health service approaching adequacy, should be a matter of serious concern to all interested in our national welfare.

DEATHS DURING WEEK ENDED APRIL 14, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended April 14, 1923, and corresponding week of 1922. (From the Weekly Health Index, April 17, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Apr. 14, 1923.	Corresponding week, 1922.
Policies in force.....	50,950,783	47,723,535
Number of death claims.....	11,852	9,123
Death claims per 1,000 policies in force, annual rate.....	11.6	10.0

Deaths from all causes in certain large cities of the United States during the week ended April 14, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, Apr. 17, 1923, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population July 1, 1923.	Week ended Apr. 14, 1923.		Annual death rate per 1,000, corre- sponding week, 1922.	Deaths under 1 year.		Infant mortality rate, week ended Apr. 14, 1923. ³
		Total deaths.	Death rate. ¹		Week ended Apr. 14, 1923.	Corre- sponding week, 1922.	
Total.....	29,087,521	8,062	14.5	13.8	1,081	1,123	.....
Akron, Ohio.....	* 208,435	41	10.3	9.8	8	10	95
Albany, N. Y.....	117,375	41	18.2	21.1	5	4	111
Atlanta, Ga.....	222,963	68	15.9	17.3	11	2	.....
Baltimore, Md.....	773,580	217	14.6	13.7	22	20	65
Birmingham, Ala.....	195,901	75	20.0	17.2	14	7	.....
Boston, Mass.....	770,400	245	16.6	17.7	41	40	117
Bridgeport, Conn.....	* 143,555	52	18.9	11.3	10	4	138
Buffalo, N. Y.....	536,718	171	16.6	16.5	23	23	96
Cambridge, Mass.....	111,444	34	15.9	11.7	6	2	107
Camden, N. J.....	124,157	25	10.5	9.8	5	4	83
Chicago, Ill.....	2,886,121	802	14.5	11.6	123	136	.....
Cincinnati, Ohio.....	406,312	137	17.6	12.6	13	17	85
Cleveland, Ohio.....	888,519	198	11.6	12.4	19	35	52
Columbus, Ohio.....	261,062	75	15.0	14.4	3	6	31
Dallas, Tex.....	177,274	46	13.5	12.7	5	6	.....
Dayton, Ohio.....	165,530	27	8.5	9.0	1	4	16
Denver, Colo.....	272,031	92	17.6	18.7	9	11	.....
Detroit, Mich.....	995,668	292	15.3	11.7	45	45	90
Duluth, Minn.....	106,289	18	8.8	.....	3	.....	68
Erie, Pa.....	112,571	28	13.0	10.0	2	4	41
Fall River, Mass.....	120,912	32	13.8	15.5	5	14	71
Flint, Mich.....	117,968	27	11.9	.....	4	.....	79
Fort Worth, Tex.....	143,821	29	10.5	7.7	3	3	.....
Grand Rapids, Mich.....	145,947	36	12.9	9.1	6	7	95
Houston, Tex.....	154,970	42	14.1	13.5	3	8	.....
Indianapolis, Ind.....	342,718	115	17.5	12.3	12	8	92
Jacksonville, Fla.....	100,046	30	15.6	17.6	4	6	.....
Jersey City, N. J.....	309,034	89	15.0	16.0	8	21	54
Kansas City, Mo.....	351,819	108	16.0	14.6	11	11	.....
Los Angeles, Calif.....	666,863	205	16.0	15.4	21	19	79
Louisville, Ky.....	257,671	86	17.4	14.8	15	10	162
Lowell, Mass.....	115,080	44	19.9	18.2	6	11	104
Lynn, Mass.....	102,683	18	9.1	.....	2	.....	53
Memphis, Tenn.....	170,067	61	18.7	19.9	8	3	.....
Milwaukee, Wis.....	484,595	126	13.6	9.7	15	20	74
Minneapolis, Minn.....	409,125	87	11.1	9.6	10	15	54
Nashville, Tenn.....	121,128	57	24.5	26.0	8	6	.....
New Bedford, Mass.....	130,072	29	11.6	15.5	7	7	104
New Haven, Conn.....	172,967	36	10.9	14.7	5	8	65
New Orleans, La.....	404,575	145	18.7	14.4	16	16	.....
New York, N. Y.....	5,927,625	1,500	13.2	14.1	197	254	79
Bronx Borough.....	840,544	172	10.7	10.2	17	20	60
Brooklyn Borough.....	2,156,687	478	11.6	12.9	56	96	59
Manhattan Borough.....	2,267,001	677	15.6	17.0	101	119	98
Queens Borough.....	535,844	127	12.4	9.9	19	12	102
Richmond Borough.....	127,549	46	18.8	23.5	4	7	73

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births.

³ Enumerated population Jan. 1, 1920.

Deaths from all causes in certain large cities of the United States during the week ended April 14, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, Apr. 17, 1923, issued by the Bureau of the Census, Department of Commerce.)—Continued.

City.	Estimated population July 1, 1923.	Week ended Apr. 14, 1923.		Annual death rate per 1,000, corresponding week, 1922.	Deaths under 1 year.		Infant mortality rate, week ended Apr. 14, 1923.
		Total deaths.	Death rate.		Week ended Apr. 14, 1923.	Corresponding week, 1922.	
Newark, N. J.....	438,669	92	10.9	13.0	17	24	80
Norfolk, Va.....	159,069	31	10.2	13.8	4	4	71
Oakland, Calif.....	240,066	56	12.2	11.8	8	5	103
Omaha, Nebr.....	204,382	60	15.3	16.1	10	5	106
Paterson, N. J.....	139,579	45	16.8	11.3	7	3	112
Philadelphia, Pa.....	1,922,788	591	16.0	15.5	63	73	82
Pittsburgh, Pa.....	613,442	197	16.7	14.1	30	29	104
Portland, Oreg.....	273,621	46	8.8	12.6	4	2	40
Providence, R. I.....	242,378	91	19.6	13.6	10	7	32
Richmond, Va.....	181,044	55	15.8	16.4	12	9	147
Rochester, N. Y.....	317,867	67	11.0	15.1	9	18	71
St. Louis, Mo.....	868,853	235	15.2	13.1	20	17	.....
St. Paul, Minn.....	241,881	70	15.1	11.7	10	3	92
Salt Lake City, Utah.....	126,241	37	15.3	17.7	4	7	65
San Antonio, Tex.....	184,727	49	13.8	.....	3	.....	.....
San Francisco, Calif.....	539,038	147	14.2	15.6	11	9	86
Seattle, Wash.....	315,312	64	10.6	9.8	10	8	39
Spokane, Wash.....	104,573	28	14.0	14.0	4	6	87
Springfield, Mass.....	144,227	38	13.7	13.8	5	8	71
Syracuse, N. Y.....	184,511	54	15.3	13.8	8	13	104
Tacoma, Wash.....	101,731	21	10.8	.....	2	.....	50
Toledo, Ohio.....	268,838	81	15.7	10.2	9	4	91
Trenton, N. J.....	127,390	51	20.9	17.5	2	6	34
Washington, D. C.....	437,671	126	15.3	16.8	16	17	91
Wilmington, Del.....	117,728	36	15.9	13.5	1	2	20
Worcester, Mass.....	194,927	46	13.0	9.1	6	6	67
Yonkers, N. Y.....	167,520	22	10.7	14.3	4	5	87
Youngstown, Ohio.....	132,358	36	14.2	7.9	8	5	109

* Enumerated population Jan. 1, 1920.

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT STATE SUMMARIES.

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

Reports for Week Ended April 21, 1923.

ALABAMA.		CALIFORNIA.	
	Cases.		Cases.
Cerebrospinal meningitis.....	1	Cerebrospinal meningitis:	
Chicken pox.....	31	San Francisco.....	3
Diphtheria.....	13	Sonoma County.....	1
Influenza.....	323	Diphtheria.....	136
Malaria.....	67	Influenza.....	103
Measles.....	919	Lethargic encephalitis:	
Pellagra.....	12	Los Angeles County.....	1
Pneumonia.....	124	Los Angeles.....	3
Scarlet fever.....	17	Measles.....	947
Smallpox.....	32	Scarlet fever.....	153
Tuberculosis.....	45	Smallpox.....	6
Typhoid fever.....	12	Typhoid fever.....	7
Whooping cough.....	58		
ARIZONA.		COLORADO.	
		(Exclusive of Denver.)	
Chicken pox.....	1	Chicken pox.....	30
Diphtheria.....	2	Diphtheria.....	27
Measles.....	56	Impetigo contagiosa.....	1
Mumps.....	10	Measles.....	32
Pneumonia.....	1	Mumps.....	56
Scarlet fever.....	17	Pneumonia.....	2
Smallpox.....	2	Scarlet fever.....	30
Tuberculosis.....	26	Tuberculosis.....	54
Whooping cough.....	1	Typhoid fever.....	3
		Whooping cough.....	26
ARKANSAS.		CONNECTICUT.	
Chicken pox.....	29	Cerebrospinal meningitis.....	1
Diphtheria.....	3	Chicken pox.....	23
Influenza.....	170	Conjunctivitis.....	12
Lethargic encephalitis.....	1	Diphtheria.....	34
Malaria.....	27	Influenza.....	4
Measles.....	216	Lethargic encephalitis.....	2
Mumps.....	5	Measles.....	203
Paratyphoid fever.....	3	Mumps.....	12
Pellagra.....	3	Pneumonia (lobar).....	26
Scarlet fever.....	2	Scarlet fever.....	74
Trachoma.....	2	Septic sore throat.....	1
Tuberculosis.....	7	Smallpox.....	1
Typhoid fever.....	1		
Whooping cough.....	7		

CONNECTICUT—continued

	Cases.
Tuberculosis (all forms).....	41
Typhoid fever.....	1
Whooping cough.....	51
FLORIDA.	
Diphtheria.....	8
Influenza.....	6
Malaria.....	5
Pneumonia.....	3
Scarlet fever.....	7
Smallpox.....	2
Typhoid fever.....	18

GEORGIA.

Chicken pox.....	30
Diphtheria.....	8
Dysentery (bacillary).....	1
German measles.....	1
Hookworm disease.....	10
Influenza.....	88
Malaria.....	37
Measles.....	210
Mumps.....	14
Pellagra.....	3
Pneumonia.....	34
Poliomyelitis.....	1
Scarlet fever.....	8
Septic sore throat.....	4
Smallpox.....	7
Tuberculosis (pulmonary).....	17
Tuberculosis (other forms).....	2
Typhoid fever.....	4
Whooping cough.....	24

ILLINOIS.

Cerebrospinal meningitis:	
Chicago.....	3
Rock Island County.....	1
St. Clair County.....	1
Winnebago County.....	1
Diphtheria:	
Cook County (including Chicago).....	113
Chicago.....	98
Macon County.....	7
Madison County.....	5
Scattering.....	40
Influenza.....	150
Lethargic encephalitis:	
Lake County.....	1
Lee County.....	1
Pneumonia.....	504
Poliomyelitis:	
Chicago.....	1
Scarlet fever:	
Cook County (including Chicago).....	124
Chicago.....	104
Du Page County.....	6
Edgar County.....	5
Winnebago County.....	6
Scattering.....	58
Smallpox.....	19
Typhoid fever.....	13
Whooping cough.....	252

INDIANA.

	Cases.
Diphtheria.....	46
Influenza.....	30
Measles.....	1,389
Pneumonia.....	10
Scarlet fever.....	70
Smallpox.....	26
Typhoid fever.....	3

IOWA.

Diphtheria.....	28
Scarlet fever.....	153
Smallpox.....	39

KANSAS.

Chicken pox.....	52
Diphtheria.....	32
Favus.....	1
Influenza.....	14
Lethargic encephalitis.....	4
Malaria.....	1
Measles.....	413
Mumps.....	107
Ophthalmia neonatorum.....	1
Pneumonia.....	51
Scarlet fever.....	48
Smallpox.....	11
Tetanus.....	3
Trachoma.....	1
Tuberculosis.....	57
Typhoid fever.....	2
Whooping cough.....	79

LOUISIANA.

Dengue.....	12
Diphtheria.....	7
Influenza.....	111
Scarlet fever.....	1
Smallpox.....	27
Typhoid fever.....	10

MAINE.

Chicken pox.....	9
Diphtheria.....	3
German measles.....	37
Influenza.....	9
Measles.....	110
Mumps.....	3
Pneumonia.....	21
Scarlet fever.....	46
Smallpox.....	15
Tuberculosis.....	6
Typhoid fever.....	2
Whooping cough.....	88

MARYLAND.¹

Cerebrospinal meningitis.....	3
Chicken pox.....	95
Diphtheria.....	44
Dysentery.....	1
German measles.....	4
Influenza.....	132
Lethargic encephalitis.....	1
Malaria.....	1
Measles.....	361

¹ Week ended Friday.

MARYLAND—continued.

	Cases.
Mumps.....	100
Paratyphoid fever.....	1
Pneumonia (broncho).....	71
Pneumonia (lobar).....	51
Polioomyelitis.....	1
Scarlet fever.....	102
Septic sore throat.....	2
Tuberculosis.....	71
Typhoid fever.....	6
Vincent's angina.....	1
Whooping cough.....	113

MASSACHUSETTS.

Actinomycosis.....	1
Cerebrospinal meningitis.....	3
Chicken pox.....	121
Conjunctivitis (suppurative).....	7
Diphtheria.....	131
German measles.....	33
Influenza.....	10
Lethargic encephalitis.....	3
Malaria.....	2
Measles.....	748
Mumps.....	246
Ophthalmia neonatorum.....	8
Pneumonia (lobar).....	101
Polioomyelitis.....	1
Scarlet fever.....	357
Septic sore throat.....	2
Trachoma.....	6
Tuberculosis (pulmonary).....	107
Tuberculosis (other forms).....	21
Typhoid fever.....	6
Whooping cough.....	335

MICHIGAN.

Diphtheria.....	107
Measles.....	701
Pneumonia.....	180
Scarlet fever.....	353
Smallpox.....	31
Tuberculosis.....	91
Typhoid fever.....	10
Whooping cough.....	235

MINNESOTA.

Cerebrospinal meningitis.....	3
Chicken pox.....	2
Diphtheria.....	42
Influenza.....	1
Lethargic encephalitis.....	2
Measles.....	789
Pneumonia.....	8
Scarlet fever.....	179
Smallpox.....	16
Tetanus.....	1
Tuberculosis.....	80
Typhoid fever.....	11
Whooping cough.....	13

MISSISSIPPI.

Diphtheria.....	9
Influenza.....	153
Scarlet fever.....	3
Smallpox.....	1
Typhoid fever.....	3

MISSOURI.

(Exclusive of Kansas City.)

	Cases.
Chicken pox.....	31
Diphtheria.....	67
Epidemic sore throat.....	5
Influenza.....	175
Measles.....	1,561
Mumps.....	15
Ophthalmia neonatorum.....	2
Pneumonia.....	8
Scarlet fever.....	63
Smallpox.....	19
Tetanus.....	1
Trachoma.....	3
Tuberculosis.....	51
Typhoid fever.....	8
Whooping cough.....	17

MONTANA.

Rocky Mountain spotted or tick fever:

Hamilton.....	1
Missoula R. F. D.....	1
Scarlet fever.....	21
Smallpox.....	11
Typhoid fever.....	2

NEBRASKA.

Chicken pox.....	12
Diphtheria.....	13
German measles.....	1
Lethargic encephalitis:	
Omaha.....	1
Measles.....	12
Mumps.....	37
Pneumonia.....	2
Scarlet fever.....	30
Smallpox.....	1
Whooping cough.....	41

NEW JERSEY.

Cerebrospinal meningitis.....	3
Chicken pox.....	143
Diphtheria.....	101
Influenza.....	87
Measles.....	866
Paratyphoid fever.....	1
Pneumonia.....	123
Polioomyelitis.....	1
Scarlet fever.....	175
Trachoma.....	1
Typhoid fever.....	4
Whooping cough.....	125

NEW MEXICO.

Chicken pox.....	15
Diphtheria.....	23
Influenza.....	60
Measles.....	45
Mumps.....	2
Pneumonia.....	10
Scarlet fever.....	4
Smallpox.....	3
Tuberculosis.....	10
Whooping cough.....	15

NEW YORK.

(Exclusive of New York City.)

	Cases.
Cerebrospinal meningitis.....	2
Diphtheria.....	74
Influenza.....	79
Letargic encephalitis.....	6
Measles.....	1,338
Pneumonia.....	296
Scarlet fever.....	322
Smallpox.....	2
Typhoid fever.....	14
Whooping cough.....	299

NORTH CAROLINA.

Chicken pox.....	89
Diphtheria.....	29
Measles.....	2,656
Scarlet fever.....	18
Smallpox.....	95
Typhoid fever.....	4
Whooping cough.....	370

OREGON.

Chicken pox.....	16
Diphtheria.....	10
Influenza.....	4
Measles.....	3
Mumps.....	1
Pneumonia.....	15
Scarlet fever.....	12
Septic sore throat.....	11
Smallpox:	
Portland.....	13
Scattering.....	14
Tuberculosis.....	13
Whooping cough (deaths, 3).....	5

SOUTH DAKOTA.

Cerebrospinal meningitis.....	1
Chicken pox.....	1
Diphtheria.....	12
Influenza.....	2
Measles.....	5
Mumps.....	1
Pneumonia.....	10
Scarlet fever.....	37
Tuberculosis.....	3

TEXAS.

Cerebrospinal meningitis.....	3
Chicken pox.....	98
Dengue.....	4
Diphtheria.....	22
Dysentery (epidemic).....	2
Influenza.....	33
Measles.....	117
Mumps.....	9
Pellagra.....	1
Pneumonia.....	25
Scarlet fever.....	13
Smallpox.....	5
Trachoma.....	50
Tuberculosis.....	22
Typhoid fever.....	2
Whooping cough.....	82

1 Deaths.

VERMONT.

Cases.

Chicken pox.....	4
Measles.....	34
Mumps.....	27
Pneumonia.....	8
Scarlet fever.....	17
Smallpox.....	2
Typhoid fever.....	1
Whooping cough.....	35

VIRGINIA.

Smallpox.....	2
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WASHINGTON.

Cerebrospinal meningitis:	
Chelan County.....	1
Chicken pox.....	78
Diphtheria.....	12
Measles.....	16
Mumps.....	23
Scarlet fever.....	28
Smallpox:	
Spokane.....	11
Scattering.....	16
Tuberculosis.....	78
Typhoid fever.....	6
Whooping cough.....	97

WEST VIRGINIA.

Chicken pox.....	14
Diphtheria:	
Parkersburg.....	1
Princeton.....	1
Influenza.....	11
Scarlet fever.....	11

WISCONSIN.

Milwaukee:	
Chicken pox.....	16
Diphtheria.....	17
German measles.....	3
Measles.....	47
Pneumonia.....	5
Scarlet fever.....	286
Tuberculosis.....	6
Typhoid fever.....	1
Whooping cough.....	20
Scattering:	
Cerebrospinal meningitis.....	2
Chicken pox.....	53
Diphtheria.....	45
Influenza.....	70
Measles.....	898
Paratyphoid fever.....	1
Pneumonia.....	19
Scarlet fever.....	173
Smallpox.....	22
Tuberculosis.....	37
Typhoid fever.....	8
Whooping cough.....	182

WYOMING.

Chicken pox.....	1
Diphtheria.....	1
Measles.....	2
Mumps.....	4
Scarlet fever.....	3
Whooping cough.....	1

Reports for Week Ended April 14, 1923.

DISTRICT OF COLUMBIA.		NORTH DAKOTA.	
	Cases.		Cases.
Chicken pox.....	20	Chicken pox.....	2
Diphtheria.....	10	Diphtheria.....	1
Influenza.....	3	Measles.....	19
Measles.....	887	Pneumonia.....	9
Scarlet fever.....	21	Scarlet fever.....	16
Tuberculosis.....	22	Smallpox.....	5
Typhoid fever.....	1	Tuberculosis.....	5
Whooping cough.....	66	Whooping cough.....	1
		WYOMING.	
		Mumps.....	1

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Polomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>March, 1923.</i>										
Arkansas.....	1	11	1,120	86	561	14		14	30	5
Idaho.....		3	44		2			30	11	1
Maryland.....		197	2,626		1,950	1		379		28
Michigan.....	2	569	149		1,045		1	1,525	130	53
Minnesota.....	1	218	128		2,068			778	209	18
New Jersey.....	16	38	6,542	1	3,942		3	937	2	16
New York.....	38	1,207	5671	1	6,198		9	2,873	54	90
Rhode Island.....	2	56	14		1,194			39		2
West Virginia.....		113	952		1,193			144	44	54
Wisconsin.....	9	299	4,367		4,115		2	1,592	119	26

Cases of Certain Communicable Diseases Reported for the Month of February, 1923, by State Health Officers.

State.	Number of cases reported.								
	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Smallpox.	Tuberculosis.	Typhoid fever.	Whooping cough.
Alabama.....	80	65	255	29	57	29	166	34	165
Arizona.....	1	9	19		21	38	11	3	3
Arkansas.....	94	24	254	12	19	10	23	16	37
California.....	904	657	1,780	79	792	74	646	28	459
Colorado.....	249	269	25	78	251	12	34	4	130
Connecticut.....	202	191	1,575	270	362	10	107	5	303
Delaware ¹									
District of Columbia.....	150	43	358		88	1	114	4	195
Florida.....	49	48	25	1	11	41	76	35	6
Georgia ¹									
Idaho.....	44	12	2	3	20	18			1
Illinois.....	1,039	1,090	4,011	656	1,071	119	1,161	31	973
Indiana.....		326	1,051		412	149	86	19	
Iowa.....		142	119		509	37		(²) 2	
Kansas.....	318	208	420	263	375	36	121		264
Kentucky ¹									
Louisiana.....	31	127	60	3	22	99	194	31	57
Maine.....	83	30	283	2	77	2	41	23	232

¹ Reports received weekly.

² Not notifiable.

³ Reports not received at time of going to press.

Cases of Certain Communicable Diseases Reported for the month of February, 1923, by State Health Officers—Continued.

State.	Number of cases reported.								
	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Smallpox.	Tuberculosis.	Typhoid fever.	Whooping cough.
Maryland.....	447	240	1,242	254	327	.....	178	23	453
Massachusetts.....	567	662	3,874	750	1,304	.....	573	22	1,404
Michigan.....	654	1	589	166	1,444	155	399	70	739
Minnesota.....	449	278	1,536	.....	819	297	245	15	122
Mississippi.....	352	81	3,614	126	33	41	267	40	1,065
Missouri.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montana.....	116	39	20	2	65	37	106	4	5
Nebraska.....	70	94	45	87	170	7	13	4	72
Nevada.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Hampshire.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	592	555	4,588	.....	868	.....	363	21	535
New Mexico.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New York.....	1,795	1,208	4,184	1,414	2,506	43	1,728	75	1,561
North Carolina.....	518	155	4,333	.....	116	446	.....	30	1,260
North Dakota.....	46	66	28	.....	108	73	7	2	22
Ohio.....	914	773	5,275	128	1,715	203	617	33	818
Oklahoma.....	70	45	123	.....	41	175	19	6	.....
Oregon.....	68	48	31	5	63	61	52	6	16
Pennsylvania.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rhode Island.....	13	81	928	6	37	.....	32	1	25
South Carolina.....	14	160	40	6	8	24	.....	6	33
South Dakota.....	61	57	73	5	198	42	23	7	21
Tennessee.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Texas.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Utah.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vermont.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virginia.....	786	247	2,636	.....	246	28	236	23	.....
Washington.....	391	76	23	109	227	171	74	14	.....
West Virginia.....	173	154	1,054	8	145	15	46	29	72
Wisconsin.....	450	248	5,000	.....	1,425	161	139	12	455
Wyoming.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Reports received weekly.

² Reports received annually.

⁴ Reports not received at time of going to press.

Reported Cases per 1,000 Population (Annual Basis) for the Month of February 1923.

State.	Case rates per 1,000 population.								
	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Smallpox.	Tuberculosis.	Typhoid fever.	Whooping cough.
Alabama.....	0.43	0.35	1.37	0.16	0.31	0.16	0.89	0.18	0.86
Arizona.....	.03	.31	.65	.....	.72	1.30	.38	.10	.15
Arkansas.....	.67	.17	1.82	.09	.14	.07	.17	.11	1.27
California.....	3.10	2.25	6.10	.27	2.71	.25	2.21	.10	1.57
Colorado.....	3.28	3.54	.33	1.03	3.30	.16	.45	.05	1.71
Connecticut.....	1.78	1.69	13.91	2.38	3.20	.09	.94	.04	2.68
Delaware.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
District of Columbia.....	4.11	1.18	9.80	.....	2.44	.03	3.12	.11	5.34
Florida.....	.61	.60	.31	.01	.14	.51	.95	.44	.07
Georgia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Idaho.....	1.22	.33	.06	.08	.55	.50	.....	.....	.03
Illinois.....	1.99	2.09	7.70	1.26	2.06	.23	2.23	.06	1.87
Indiana.....	.....	1.41	4.55	.....	1.78	.64	.37	.08	.....
Iowa.....	.....	.75	.63	.....	2.69	.20	.....	(¹)	.....
Kansas.....	2.31	1.51	3.05	1.91	2.72	.26	.88	.01	1.91

¹ Reports received weekly.

² Not notifiable.

⁴ Reports not received at time of going to press.

Reported Cases per 1,000 Population (Annual Basis) for the Month of February, 1923—Continued.

State.	Case rates per 1,000 population.							
	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Smallpox.	Tuberculosis.	Typhoid fever.
Kentucky ¹	.22		.42	.02	.16	.70	1.37	.22
Louisiana		.90						.40
Maine	1.39	.50	4.75	.03	1.29	.03	.69	.39
Maryland	3.87	2.08	10.76	2.20	2.83		1.54	.20
Massachusetts	1.84	2.14	12.54	2.43	4.22		1.85	.07
Michigan	2.14	.00	1.93	.54	4.73	.51	1.31	.23
Minnesota	2.34	1.45	8.01		4.27	1.55	1.28	.08
Mississippi	2.57	.59	26.34	.92	4.24	.30	1.95	.29
Missouri ¹								
Montana	2.47	.83	.43	.04	1.39	.79	2.26	.09
Nebraska	.68	.92	.44	.85	1.66	.07	.13	.04
Nevada ¹								
New Hampshire ²								
New Jersey	2.28	2.14	17.70		3.35		1.40	.08
New Mexico ¹								
New York	2.16	1.45	5.03	1.70	3.01	.05	2.08	.09
North Carolina	2.51	.75	21.03		.56	2.16		.15
North Dakota	.89	1.28	.54		2.09	1.42	.14	.04
Ohio	1.95	1.65	11.24	.27	3.65	1.43	1.31	.07
Oklahoma	.42	.27	.74		.25	1.06	.11	.04
Oregon	1.08	.76	.49	.08	1.08	.97	.82	.10
Pennsylvania ¹								
Rhode Island	.27	1.68	19.30	.12	.77		.67	.02
South Carolina	.10	1.20	.30	.04	.06	.18		.04
South Dakota	1.21	1.13	1.45	.10	3.94	.84	.46	.14
Tennessee ²								
Texas ¹								
Utah ¹								
Vermont ¹								
Virginia	4.27	1.34	14.33		1.34	.15	1.28	.13
Washington	3.55	.69	.21	.99	2.06	1.55	.67	.13
West Virginia	1.45	1.29	8.86	.07	1.22	.13	.39	.24
Wisconsin	2.14	1.18	23.79		6.78	.77	.66	.06
Wyoming ¹								

¹ Reports received weekly.

² Reports received annually.

¹ Reports not received at time of going to press.

RECIPROCAL NOTIFICATION.

March, 1923.

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

State referred by.	Cerebro-spinal meningitis.	Diphtheria.	Scarlet fever.	Smallpox.	Tuberculosis.	Typhoid fever.
Connecticut					1	2
Illinois			1	1	7	
Massachusetts			2			
Minnesota	1				44	1
New York		1				

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923.

CEREBROSPINAL MENINGITIS.

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

City.	Median for previous years.	Week ended Apr. 7, 1923.		City.	Median for previous years.	Week ended Apr. 7, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				New York:			
Los Angeles.....	1	2	1	New York.....	8	1	.....
Riverside.....	0	.....	1	Ohio:			
San Bernardino.....	0	.....	1	Cincinnati.....	0	1	2
Connecticut:				Hamilton.....	0	.....	1
Hartford.....	0	1	.....	Sandusky.....	0	.....	1
Florida:				Pennsylvania:			
Tampa.....	0	.....	1	Pittsburgh.....	0	1	.....
Illinois:				Rhode Island:			
Chicago.....	3	2	2	Cumberland.....	0	1	1
Maine:				Providence.....	0	.....	1
Bangor.....	0	1	1	Texas:			
Massachusetts:				El Paso.....	0	1	1
Boston.....	1	1	.....	Virginia:			
Brantree.....	.....	1	.....	Roanoke.....	0	.....	1
Cambridge.....	0	1	.....	Washington:			
New Bedford.....	0	1	1	Seattle.....	0	1	.....
Southbridge.....	0	1	.....			
New Jersey:							
Newark.....	0	.....	1				
Passaic.....	0	.....	1				

DIPHTHERIA.

See p. 908; also Current State summaries, p. 895, and Monthly summaries by States, p. 899.

INFLUENZA.

City.	Cases.		Deaths, week ended Apr. 7, 1923.	City.	Cases.		Deaths, week ended Apr. 7, 1923.
	Week ended Apr. 8, 1922.	Week ended Apr. 7, 1923.			Week ended Apr. 8, 1922.	Week ended Apr. 7, 1923.	
Alabama:				District of Columbia:			
Birmingham.....	.....	58	3	Washington.....	1	6	3
Dothan.....	.....	4	.....	Florida:			
Mobile.....	.....	1	.....	Tampa.....	14	.....	.....
Montgomery.....	.....	2	.....	Georgia:			
Tuscaloosa.....	.....	2	.....	Atlanta.....	10	9	.....
Arkansas:				Augusta.....	5	.....	.....
Little Rock.....	3	6	.....	Rome.....	26	.....	.....
California:				Savannah.....	.....	1	.....
Alameda.....	1	.....	.....	Illinois:			
Los Angeles.....	37	34	3	Chicago.....	42	59	10
Oakland.....	3	3	.....	Danville.....	1	.....	.....
Pasadena.....	6	.....	.....	Decatur.....	.....	2	1
Sacramento.....	.....	1	2	Oak Park.....	.....	1	.....
San Bernardino.....	.....	1	1	Quincy.....	1	1	1
San Diego.....	9	39	1	Springfield.....	5	3	3
San Francisco.....	8	.....	.....	Indiana:			
Stockton.....	1	12	.....	Hammond.....	.....	.....	1
Colorado:				Indianapolis.....	.....	.....	2
Denver.....	.....	.....	5	Lafayette.....	.....	.....	1
Connecticut:				Iowa:			
Bridgeport.....	2	1	1	Burlington.....	1	.....	.....
Hartford.....	.....	1	.....	Kansas:			
Meriden.....	1	.....	.....	Atchison.....	.....	18	.....
New Britain.....	9	.....	.....	Kansas City.....	.....	1	.....
New London.....	3	.....	.....	Lawrence.....	.....	2	1
Waterbury.....	1	.....	.....	Topeka.....	.....	.....	2

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

INFLUENZA—Continued.

City.	Cases.		Deaths, week ended Apr. 7, 1923.	City.	Cases.		Deaths, week ended Apr. 7, 1923.
	Week ended Apr. 8, 1922.	Week ended Apr. 7, 1923.			Week ended Apr. 8, 1922.	Week ended Apr. 7, 1923.	
Kentucky:				New York—Continued			
Covington.....			1	Dunkirk.....		26	
Louisville.....	3	3		Elmira.....		1	
Louisiana:				Ithaca.....		1	
Baton Rouge.....	3			Jamestown.....	2		
New Orleans.....	6	6	5	Lockport.....		3	
Maine:				Mount Vernon.....	1		
Portland.....	1			New York.....	59	98	26
Maryland:				Poughkeepsie.....	2		
Baltimore.....	26	21	4	Rochester.....			1
Cumberland.....	2			Saratoga Springs.....	10	15	
Massachusetts:				Schenectady.....		1	2
Attleboro.....	2			Syracuse.....	1		
Boston.....	4	5	2	Watertown.....		4	
Brockton.....	1			North Carolina:			
Brookline.....	1			Wilmington.....	6		5
Cambridge.....	1			Ohio:			
Fall River.....		3	5	Ashtabula.....	6	1	
Framingham.....			1	Canton.....			2
Haverhill.....	4			Cincinnati.....	1	3	7
Holyoke.....	1			Columbus.....	10		6
Leominster.....		1		Mansfield.....		2	
Lynn.....			1	Salem.....			1
Malden.....	1			Springfield.....			1
Newton.....		1		Oklahoma:			
Saugus.....	3	1		Oklahoma.....			2
Somerville.....	2			Oregon:			
Waltham.....		1	1	Portland.....			6
Worcester.....			1	Pennsylvania:			
Michigan:				Philadelphia.....	9	13	16
Detroit.....	6	6	5	Rhode Island:			
Flint.....		1		Providence.....			4
Grand Rapids.....	2			South Carolina:			
Highland Park.....	2			Charleston.....			1
Jackson.....	1		1	Greenville.....	12		
Kalamazoo.....		1	1	Tennessee:			
Marquette.....	1			Memphis.....			4
Saginaw.....			2	Texas:			
Minnesota:				Austin.....		10	
Minneapolis.....			3	Dallas.....	2	2	5
St. Paul.....	7			El Paso.....			3
Missouri:				Fort Worth.....	1	2	2
Independence.....	2	5		Houston.....	20		
Kansas City.....		3	5	San Antonio.....			4
St. Louis.....	5			Waco.....			1
Montana:				Utah:			
Missoula.....	1			Salt Lake City.....			2
Nevada:				Virginia:			
Reno.....	4	8		Charlottesville.....			2
New Jersey:				Richmond.....		2	1
Garfield.....	1			Roanoke.....			1
Jersey City.....		1		West Virginia:			
Kearny.....	2			Charleston.....	5		
Long Branch.....		1		Clarksburg.....			2
Mentclair.....	1	2		Huntington.....			1
Newark.....	21	13	2	Wheeling.....			1
Orange.....		1		Wisconsin:			
Trenton.....	2	4	2	Eau Claire.....	3	4	
West Orange.....	1			Green Bay.....	2		
New York:				Manitowoc.....	4		
Albany.....	16	9		Milwaukee.....	4		
Auburn.....	1			Sheboygan.....	1		
Buffalo.....	11			Wyoming:			
Cohoes.....		3		Casper.....	11		

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

LEPROSY.

City.	Cases.	Deaths.
Louisiana:		
New Orleans.....	1	.....

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Connecticut:			West Virginia:		
New Haven.....		1	Morgantown.....	1	1
Oregon:			Wisconsin:		
Portland.....		1	Eau Claire.....	2	.....

MALARIA.

Alabama:			Louisiana:		
Birmingham.....	4	.....	New Orleans.....	1	.....
Dothan.....	1	.....	Massachusetts:		
Tuscaloosa.....	1	.....	Lowell.....	1	1
Arkansas:			Tennessee:		
Little Rock.....	8	.....	Memphis.....	6	.....
Florida:			Texas:		
Tampa.....		2	Austin.....	1	.....
Georgia:			Dallas.....		1
Atlanta.....	1	.....		

MEASLES.

See p. 908; also Current State summaries, p. 895, and Monthly summaries by States, p. 899.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Arkansas:			Oklahoma:		
Little Rock.....	1	.....	Oklahoma.....		1
California:			South Carolina:		
Oakland.....	1	.....	Columbia.....		1
North Carolina:					
Raleigh.....		1			

PNEUMONIA (ALL FORMS).

Alabama:			Connecticut:		
Birmingham.....	28	12	Bridgeport.....	8	3
Dothan.....	1	.....	Bristol.....	1	.....
Mobile.....		1	Greenwich.....	1	.....
Montgomery.....		2	Hartford.....		3
Arkansas:			Manchester.....	1	.....
Little Rock.....	8	.....	New Haven.....		11
California:			Norwich.....	2	.....
Long Beach.....		2	Waterbury.....		6
Los Angeles.....	41	19	District of Columbia:		
Oakland.....	5	2	Washington.....		20
Pasadena.....		1	Florida:		
Riverside.....		1	Tampa.....		2
Sacramento.....		6	Georgia:		
San Bernardino.....		5	Atlanta.....	18	15
San Diego.....	7	6	Rome.....	2	.....
Santa Ana.....		1	Savannah.....		2
Santa Barbara.....		2	Illinois:		
Santa Cruz.....		1	Alton.....	1	.....
Stockton.....	5	1	Aurora.....		2
Colorado:			Bloomington.....		3
Denver.....		9	Chicago.....	382	128
Pueblo.....		2	Decatur.....	6	3

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Illinois—Continued.			Massachusetts—Continued.		
East St. Louis.....		7	Newton.....	1	
Elgin.....	1		North Adams.....		1
Evanston.....	2		Northampton.....		2
Freeport.....		1	Pittsfield.....	1	1
Jacksonville.....		4	Quincy.....		1
Kewanee.....	6	4	Saugus.....		2
La Salle.....	4		Somerville.....	2	
Mattoon.....		1	Springfield.....	4	2
Oak Park.....	6	2	Taunton.....		1
Peoria.....		3	Wakefield.....		1
Quincy.....	10	1	Waltham.....		2
Springfield.....		2	Watertown.....		1
Indiana:			West Springfield.....		1
Anderson.....		1	Westfield.....	1	
Crawfordsville.....		2	Winchester.....		1
East Chicago.....		4	Winthrop.....	3	1
Fort Wayne.....		1	Worcester.....		7
Gary.....		5	Michigan:		
Hammond.....		2	Ann Arbor.....	1	
Indianapolis.....		13	Battle Creek.....	1	
Logansport.....		3	Detroit.....	100	54
Michigan City.....		1	Flint.....	4	2
Muncie.....		4	Grand Rapids.....	11	5
South Bend.....		2	Hamtramck.....		1
Terre Haute.....		1	Highland Park.....	5	2
Iowa:			Ironwood.....		1
Council Bluffs.....		1	Jackson.....		2
Muscatine.....	3	2	Kalamazoo.....	3	2
Sioux City.....	1		Marquette.....	2	
Kansas:			Muskegon.....	4	3
Kansas City.....	4		Pontiac.....	1	
Lawrence.....	2	1	Port Huron.....	2	1
Topeka.....	5	1	Saginaw.....		3
Wichita.....		2	Minnesota:		
Kentucky:			Duluth.....		4
Covington.....		1	Hibbing.....	1	
Henderson.....		1	Minneapolis.....		6
Lexington.....		2	Missouri:		
Louisville.....	14	13	Cape Girardeau.....		2
Louisiana:			Kansas City.....		16
New Orleans.....	14	13	St. Joseph.....		3
Maine:			Springfield.....		5
Bangor.....	5	2	Montana:		
Biddeford.....		2	Great Falls.....		1
Lewiston.....	3	2	Missoula.....	2	1
Portland.....		5	Nebraska:		
Sanford.....	2	1	Lincoln.....		1
Maryland:			Omaha.....		9
Baltimore.....	85	41	New Hampshire:		
Cumberland.....	4	2	Concord.....		1
Frederick.....	3		New Jersey:		
Massachusetts:			Bloomfield.....	3	
Amesbury.....		2	Clifton.....		1
Arlington.....		1	East Orange.....	3	1
Attleboro.....	4		Englewood.....	3	
Belmont.....		1	Garfield.....		2
Boston.....		22	Hackensack.....		1
Braintree.....	2		Harrison.....	1	
Brockton.....		2	Hoboken.....		2
Brookline.....		1	Jersey City.....	3	
Cambridge.....		5	Kearny.....	1	
Chelsea.....		3	Long Branch.....	1	
Chicopee.....		1	Montclair.....	4	3
Clinton.....		2	Morristown.....	1	
Everett.....		1	Newark.....	66	10
Fall River.....		5	Orange.....	9	3
Frammingham.....		1	Passaic.....		4
Haverhill.....	1		Paterson.....	4	
Holyoke.....		3	Phillipsburg.....		1
Lawrence.....		1	Plainfield.....		2
Leominster.....	1		Trenton.....		4
Lowell.....		7	West Hoboken.....	1	
Lynn.....	3	2	West New York.....		
Malden.....		2	New York:		
Medford.....		2	Albany.....	10	
Melrose.....	1		Auburn.....	1	
Milford.....		1	Buffalo.....	42	17
New Bedford.....		15	Cohoes.....	5	
Newburyport.....		2	Dunkirk.....	2	1

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
New York—Continued.			Oklahoma:		
Elmira.....	5		Oklahoma.....		3
Geneva.....		1	Oregon:		
Ithaca.....	3		Portland.....		10
Jamestown.....	1		Pennsylvania:		
Lackawanna.....		1	Philadelphia.....	112	103
Little Falls.....		1	Rhode Island:		
Lockport.....	1		Cumberland.....	2	1
Mount Vernon.....	3	1	Newport.....		1
New York.....	353	201	Pawtucket.....		3
Newburgh.....		2	Providence.....		9
Niagara Falls.....	8	1	South Carolina:		
Olean.....	6		Charleston.....		2
Peekskill.....		1	Columbia.....		3
Port Chester.....	2	1	Greenville.....		1
Poughkeepsie.....	4		South Dakota:		
Rochester.....	22	8	Sioux Falls.....		1
Rome.....		1	Tennessee:		
Saratoga Springs.....	1		Memphis.....		15
Schenectady.....	7	4	Nashville.....		10
Syracuse.....	9	8	Texas:		
Troy.....	5	4	Austin.....		1
Watertown.....	3	2	Dallas.....		9
White Plains.....		1	El Paso.....	6	2
Yonkers.....	2	2	Fort Worth.....		3
North Carolina:			Galveston.....		1
Durham.....	1		Houston.....		5
Greensboro.....	3		San Angelo.....		4
Raleigh.....	4		San Antonio.....		13
Wilmington.....	1		Waco.....		4
Ohio:			Utah:		
Akron.....	5		Salt Lake City.....		4
Cambridge.....		1	Vermont:		
Canton.....		5	Rutland.....		2
Cincinnati.....		9	Virginia:		
Cleveland Heights.....	2		Alexandria.....	1	
Columbus.....		5	Norfolk.....		3
Dayton.....	1	2	Petersburg.....		2
East Youngstown.....		2	Richmond.....		6
Findlay.....		1	Roanoke.....	5	1
Hamilton.....		1	West Virginia:		
Lima.....		2	Charleston.....		1
Lorain.....	1		Huntington.....		5
Mansfield.....	2	1	Parkersburg.....		2
Martins Ferry.....		1	Wheeling.....		4
Middletown.....		1	Wisconsin:		
Newark.....		2	Beloit.....		2
Niles.....	1		Eau Claire.....	2	
Piqua.....		1	Fond du Lac.....		1
Salem.....		1	Kenosha.....		4
Sandusky.....		2	Marquette.....		1
Springfield.....		4	Milwaukee.....		17
Toledo.....		4	Oshkosh.....		3
Youngstown.....		7	Racine.....		2
Zanesville.....		4	Superior.....		2

POLIOMYELITIS (INFANTILE PARALYSIS).

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

City.	Median for previous years.	Week ended Apr. 7, 1923.	
		Cases.	Deaths.
California:			
Los Angeles.....	0	1	1
Michigan:			
Grand Rapids.....	0	1	
Ohio:			
Canton.....	0	1	
Pennsylvania:			
Reading.....	0	1	

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		New Jersey:	
Los Angeles.....	14	Montclair.....	1
Kentucky:		Summit.....	1
Louisville.....	1	Ohio:	
Massachusetts:		Canton.....	1
Arlington.....	1		
Missouri:			
Kansas City.....	2		

SCARLET FEVER.

See p. 908; also Current State summaries, p. 895, and Monthly summaries by States, p. 899.

SMALLPOX.

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

City.	Median for pre- vious years.	Week ended Apr. 7, 1923.		City.	Median for pre- vious years.	Week ended Apr. 7, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				North Carolina:			
Dothan.....		1		Durham.....	1	1	
California:				Greensboro.....	1	11	
Los Angeles.....	2	13		Winston-Salem.....	2	25	
Stockton.....	0	4		Ohio:			
Florida:				Columbus.....	0	4	
Key West.....	1	2		Toledo.....	3	38	
St. Petersburg.....		2		Oklahoma:			
Georgia:				Oklahoma.....	6	3	
Atlanta.....	5	2		Oregon:			
Valdosta.....	0	1		Portland.....	9	8	
Indiana:				Tennessee:			
Anderson.....	0	2		Knoxville.....	1	22	
Fort Wayne.....	2	4		Memphis.....	6	1	
Gary.....	1	10		Texas:			
Huntington.....	0	1		Waco.....	1	1	
Indianapolis.....	4	7		Utah:			
Iowa:				Salt Lake City.....	7	2	
Davenport.....	6	1		Virginia:			
Sioux City.....	5	1		Norfolk.....	0	1	
Kansas:				Richmond.....	0	10	
Wichita.....	5	4		Roanoke.....	1	4	
Louisiana:				Washington:			
New Orleans.....	6	1		Seattle.....	12	2	
Michigan:				Spokane.....	11	8	
Detroit.....	9	1		Tacoma.....	3	3	
Grand Rapids.....	0	5		Vancouver.....	0	2	
Ironwood.....	0	1		Wisconsin:			
Jackson.....	0	1		Eau Claire.....	1	1	
Sault Ste Marie.....	0	1		Kenosha.....	0	4	
Minnesota:				Madison.....	2	1	
Duluth.....	1	7		Oshkosh.....	1	1	
Minneapolis.....	12	5		Stevens Point.....	1	1	
New York:				Superior.....	3	2	
New York.....	0	1					

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Pennsylvania:		
Birmingham.....	1	1	Philadelphia.....	1	1
Mobile.....	1		South Carolina:		
			Charleston.....		2

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

TUBERCULOSIS.

See table beginning below; also Current State summaries, p. 895.

TYPHOID FEVER.

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

City.	Median for previous years.	Week ended Apr. 7, 1923.		City.	Median for previous years.	Week ended Apr. 7, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Michigan:			
Birmingham.....	1	.....	1	Detroit.....	2	1	1
Montgomery.....	0	.....	1	Saginaw.....	0	4	1
California:				Minnesota:			
Los Angeles.....	0	1	.....	Minneapolis.....	0	1	.....
Oakland.....	1	1	1	Rochester.....	0	1	.....
Florida:				Missouri:			
Tampa.....	1	1	.....	St. Louis.....	2	2	1
Georgia:				Montana:			
Savannah.....	0	.....	1	Billings.....	0	1	.....
Illinois:				New Jersey:			
Alton.....	0	1	.....	Newark.....	1	1	.....
Chicago.....	3	1	.....	Paterson.....	0	1	.....
Jacksonville.....	0	1	.....	Trenton.....	0	1	.....
Indiana:				New York:			
Indianapolis.....	0	.....	1	Albany.....	0	1	.....
Kansas:				New York.....	14	9	.....
Atchison.....	0	2	.....	Ohio:			
Kentucky:				Toledo.....	0	.....	1
Covington.....	0	8	3	Pennsylvania:			
Louisville.....	1	1	.....	Allentown.....	0	1	.....
Louisiana:				Canonsburg.....	0	1	.....
New Orleans.....	2	1	.....	Harrisburg.....	0	1	.....
Maine:				Philadelphia.....	4	2	3
Portland.....	0	.....	1	Pittsburgh.....	1	1	.....
Maryland:				Uniontown.....	0	1	.....
Baltimore.....	4	2	1	Tennessee:			
Massachusetts:				Memphis.....	1	1	.....
Boston.....	1	1	.....	Washington:			
Brockton.....	0	2	.....	Tacoma.....	0	1	.....
Cambridge.....	0	1	.....	West Virginia:			
Lawrence.....	0	5	.....	Fairmont.....	0	2	.....
Newburyport.....	0	1	.....	Wheeling.....	0	1	.....
Springfield.....	0	1	1	Wisconsin:			
Worcester.....	0	.....	1	Sheboygan.....	0	1	.....

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Birmingham.....	178,806	65	2	.....	151	1	1	.....	15	2
Dothan.....	10,034	3	.....	.....	.....	.....	.....	.....	.....	.....
Mobile.....	60,777	25	1	.....	4	.....	.....	.....	.....	3
Montgomery.....	43,464	13	.....	.....	364	.....	.....	.....	.....	1
Tuscaloosa.....	11,996	.....	1	.....	8	.....	.....	.....	.....	.....
Arkansas:										
Fort Smith.....	28,870	.....	.....	.....	3	.....	2	.....	.....	.....
Little Rock.....	65,142	.....	.....	.....	53	.....	.....	.....	4	.....
North Little Rock.....	14,048	.....	.....	.....	37	.....	1	.....	.....	.....
California:										
Alameda.....	28,806	1	3	.....	8	.....	3	.....	1	.....
Eureka.....	12,923	3	1	.....	1	.....	4	.....	.....	.....
Long Beach.....	55,593	17	2	.....	22	.....	7	.....	1	1
Los Angeles.....	576,673	203	54	2	216	.....	41	.....	7	28

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
California—Continued.											
Oakland.....	216,261	48	12	.....	120	.....	5	.....	1	3
Pasadena.....	45,354	17	4	.....	10	.....	4	1	1	2
Richmond.....	16,843	3	.....	.....	.....	.....	.....	.....	1	.....
Riverside.....	19,341	12	3	1	1	.....	2	.....	5	2
Sacramento.....	65,908	25	1	.....	.....	.....	8	.....	5	2
San Bernardino.....	18,721	25	1	.....	22	.....	1	.....	1	2
San Diego.....	74,683	37	3	.....	88	.....	10	1	11	3
Santa Ana.....	15,485	4	2	.....	5	.....	.....	.....	.....	.....
Santa Barbara.....	19,441	5	.....	.....	5	.....	1	.....	.....	1
Santa Cruz.....	10,917	2	.....	.....	.....	.....	.....	.....	.....	1
Stockton.....	40,286	15	2	.....	157	.....	4	.....	.....	2
Colorado:											
Denver.....	256,491	79	.....	.....	.....	1	.....	.....	.....	10
Pueblo.....	43,050	14	.....	1	1	.....	.....	.....	.....	1
Trinidad.....	10,906	.....	.....	.....	1	.....	.....	.....	.....	.....
Connecticut:											
Bridgeport.....	143,555	52	4	1	32	6	7	.....	6	2
Bristol.....	20,620	5	2	.....	1	.....	.....	.....	.....	.....
Fairfield (town).....	11,475	1	.....	.....	.....	.....	.....	.....	.....	.....
Greenwich (town).....	22,123	.....	.....	.....	1	.....	3	.....	.....	.....
Hartford.....	138,036	27	5	.....	.....	.....	3	.....	2	.....
Manchester (town).....	18,370	1	.....	.....	6	.....	1	.....	.....	.....
Millford (town).....	10,193	2	.....	.....	.....	.....	.....	.....	.....	.....
New Haven.....	162,537	71	9	.....	32	1	9	.....	5	3
Norwich (city).....	22,304	6	.....	.....	3	.....	.....	.....	1	.....
Waterbury.....	91,715	36	10	1	40	4	2	.....	3	1
District of Columbia:											
Washington.....	437,571	155	7	1	666	1	21	1	24	14	
Florida:											
Key West.....	18,749	4	.....	.....	.....	.....	.....	.....	.....	1
St. Petersburg.....	14,237	7	.....	.....	1	.....	.....	.....	1	.....
Tampa.....	51,608	18	.....	.....	6	.....	.....	.....	.....	2
Georgia:											
Albany.....	11,555	.....	.....	.....	57	.....	.....	.....	.....	.....
Atlanta.....	200,616	80	1	1	4	.....	3	.....	.....	9
Brunswick.....	14,413	4	.....	.....	.....	.....	1	.....	.....	.....
Macon.....	52,995	.....	.....	.....	59	.....	.....	.....	.....	.....
Rome.....	13,252	.....	.....	.....	2	.....	.....	.....	.....	.....
Savannah.....	83,252	30	.....	1	14	.....	1	.....	.....	2
Valdosta.....	10,783	.....	.....	.....	.....	.....	.....	.....	1	.....
Idaho:											
Boise.....	21,393	7	.....	.....	.....	.....	.....	.....	.....	.....
Pocatello.....	15,001	4	.....	.....	.....	.....	.....	.....	.....	.....
Illinois:											
Alton.....	24,682	9	.....	.....	20	.....	.....	.....	.....	.....
Aurora.....	36,397	10	1	.....	20	.....	1	.....	3	.....
Bloomington.....	28,725	10	1	.....	3	.....	.....	.....	.....	.....
Blue Island.....	11,424	6	.....	.....	.....	.....	.....	.....	.....	.....
Centralia.....	12,491	7	.....	.....	4	.....	.....	.....	.....	.....
Champaign.....	15,873	.....	.....	.....	14	.....	.....	.....	.....	.....
Chicago.....	2,701,705	767	96	7	822	13	77	1	153	48	
Cicero.....	44,995	4	1	.....	21	.....	2	.....	2	.....
Decatur.....	43,818	13	.....	.....	2	.....	2	.....	1	.....
East St. Louis.....	66,767	19	.....	.....	4	.....	.....	.....	1	.....
Elgin.....	27,454	6	1	.....	18	.....	2	.....	1	.....
Evanston.....	37,234	14	1	.....	57	.....	1	.....	1	.....
Forest Park.....	10,768	.....	.....	.....	2	.....	.....	.....	.....	.....
Freeport.....	19,669	8	.....	.....	13	.....	3	.....	1	.....
Galesburg.....	23,834	11	.....	.....	1	.....	.....	.....	.....	.....
Jacksonville.....	15,713	11	1	.....	1	.....	.....	.....	2	3
Kewanee.....	16,026	11	.....	.....	.....	.....	.....	.....	1	.....
La Salle.....	13,050	2	1	.....	2	.....	.....	.....	.....	.....
Mattoon.....	13,552	4	1	.....	9	.....	1	.....	2	.....
Oak Park.....	39,858	19	.....	.....	10	.....	2	.....	3	.....
Peoria.....	76,121	29	.....	.....	71	1	4	.....	.....	1
Quincy.....	35,978	15	.....	.....	2	.....	1	.....	3	1
Springfield.....	59,183	24	2	.....	56	.....	.....	.....	3	2
Indiana:											
Anderson.....	29,767	7	.....	.....	1	.....	1	.....	.....	1
Bloomington.....	11,595	3	.....	.....	.....	.....	.....	.....	2	2
Crawfordsville.....	10,139	8	.....	.....	.....	.....	1	.....	.....	.....

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Indiana—Continued.											
East Chicago.	35,967	9			6		1				
Fort Wayne.	86,549	18	3				1			2	
Frankfort.	11,585	4			2		3				
Gary.	55,378	12			78		5				
Hammond.	36,004	11			13		1		2		
Huntington.	14,000	1	1				1			1	
Indianapolis.	314,194	93	10		235	1	4		18	8	
Kokomo.	30,067	9	1	1			1				
La Fayette.	22,486	10			2		2		1	2	
Laporte.	15,158	5	2		11						
Logansport.	21,626	7			17						
Michigan City.	19,457	5									
Mishawaka.	15,195	4									
Muncia.	36,524	15			1				1		
South Bend.	70,983	11			3		2	2	2		
Terre Haute.	66,083	23	1	1	116				2	2	
Iowa:											
Burlington.	24,057	11	1						1		
Council Bluffs.	36,162	15					1				
Davenport.	56,727						2				
Des Moines.	126,468		1	1	1		43				
Dubuque.	39,141		1		15	1					
Iowa City.	11,267						3				
Marshalltown.	15,731						1				
Muscatine.	16,068	5			7						
Ottumwa.	23,003		2								
Sioux City.	71,227	0	1				2				
Waterloo.	36,230				17		3				
Kansas:											
Coffeyville.	13,452	2			11						
Fort Scott.	10,663	3	4		1						
Hutchinson.	23,298								1		
Kansas City.	101,177		3		38		9		7		
Lawrence.	12,456	4									
Parsons.	16,028	5			2						
Topeka.	50,022	19	1				4		1	1	
Wichita.	72,217	19	2		2		5		1		
Kentucky:											
Covington.	57,121	20					3			1	
Henderson.	12,169	4									
Lexington.	41,534	16					1		4	2	
Louisville.	234,891	101	4		33		1		14	3	
Owensboro.	17,424				15				2		
Paducah.	24,735				2				2		
Louisiana:											
New Orleans.	387,219	117	7	1	3		2		13	14	
Maine:											
Auburn.	16,985	3			2		3				
Bangor.	25,978				1		2				
Bath.	14,731	4									
Biddeford.	18,008	7							1		
Lewiston.	31,791	12	1		8		2		3	1	
Portland.	69,272	19			90						
Sanford (town).	10,691	1									
Waterville.	13,351		1				3				
Maryland:											
Baltimore.	733,826	259	36	5	371	3	42	1	19	23	
Cumberland.	29,837	20	1		65	1				1	
Frederick.	11,066	8			1						
Massachusetts:											
Adams (town).	12,967	1			4						
Amesbury (town).	10,036	3									
Arlington (town).	18,665	8			31		2		1	1	
Attleboro.	19,731	7							3		
Belmont (town).	10,749	5	1		5		1			1	
Beverly.	22,661	11							1		
Boston.	748,060	250	53	1	178	2	72	1	47	21	
Braintree (town).	10,580	3	1		7		1		1		
Brockton.	66,254	18	4		11		1		1		
Brookline.	37,748	9	1		9		1		1		
Cambridge.	108,094	39	2		62	1	11		6	6	
Chelsea.	43,184	11	3		4		5	1	2		
Chicopee.	36,214	6		1							

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Massachusetts—Continued.										
Clinton.....	12,979	8					2		1	
Dedham.....	10,792	1								
Everett.....	40,120	10	1		16		6		1	
Fall River.....	120,485	46	4		3		5		12	7
Framingham.....	17,033	7			2			1		
Greenfield.....	15,462	3							1	
Haverhill.....	53,884	17	4		5		9			1
Holyoke.....	60,203	14	1				22		1	1
Lawrence.....	94,270	18	1		10				1	2
Leominster.....	19,744	5			2				2	2
Lowell.....	112,759	42	3	1	47	1	6		4	5
Lynn.....	99,148	30	2		11		13		5	2
Malden.....	49,103	10	7		7		10	1		1
Medford.....	39,038	13	1		20		1			
Melrose.....	18,204	3			10				1	
Methuen.....	15,189	0			1		2			
Milford.....	13,471	9					8	1		
Natick.....	10,907						4			
New Bedford.....	121,217	39	2		9	1			11	1
Newburyport.....	15,618	5								
Newton.....	46,054	10			1		7		1	
North Adams.....	22,282	7			1				1	
Northampton.....	21,951	9					4			
Pittsfield.....	41,763	15	3	1			1		3	2
Plymouth.....	13,045	3								
Quincy.....	47,876	11	2		6		23		2	2
Salem.....	42,529	1	1				5	1	3	
Saugus.....	10,874	6	1		7		2			1
Somerville.....	93,091	19	6	1	10		7		4	
Southbridge.....	14,245	2							2	
Springfield.....	129,614	44	1	1	4		10		3	3
Taunton.....	37,137	14	1		7		15		1	4
Wakefield.....	13,025	8			21		4			
Waltham.....	30,915	16	3		4		4		1	
Watertown.....	21,457	5	3		2		1			
Webster.....	13,258	1					5			
West Springfield.....	13,443	3								
Westfield.....	18,604	3	1		1	1			1	
Winchester.....	10,485	1					5		1	
Winthrop.....	15,455				42		1		1	
Woburn.....	16,574	1								
Worcester.....	179,754	52	5	1	49		11		5	3
Michigan:										
Alpena.....	11,101						5			
Ann Arbor.....	19,516	7	1	1			1			
Battle Creek.....	36,164	0	3		3					
Benton Harbor.....	12,233	4			2					
Detroit.....	993,678	275	37	6	103		125	5	41	27
Flint.....	91,599	17	3		12		9		1	
Grand Rapids.....	137,634	42	5		20		11		11	1
Hamtramck.....	48,615	4	5				1	1		
Highland Park.....	46,499	14			32		4	1		2
Holland.....	12,183		2							
Ironwood.....	15,739	1			1		3			
Jackson.....	48,374	21			6		5			
Kalamazoo.....	48,487	22	4		1		3		2	1
Marquette.....	12,718	5	1				2			
Muskegon.....	36,570	13					2			
Pontiac.....	34,273	4	9	1	3		6			1
Port Huron.....	25,944	10			2		2			
Saginaw.....	61,903	24	4	1	2		8			
Sault Ste. Marie.....	12,096	3					1		1	1
Minnesota:										
Duluth.....	98,917	21			38		3			3
Faribault.....	11,069	3			1		3	1		
Hibbing.....	15,089				12		4			1
Mankato.....	12,469				6					
Minneapolis.....	380,582	113	9		148	4	42	2	20	10
Rochester.....	13,722	17								2
St. Cloud.....	15,873				1		3			
Winona.....	19,143						1			

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Missouri:										
Cape Girardeau	10,252	6			37		1			
Independence	11,698		1		4		2			
Kansas City	324,410	103	7	2	140	2	17		6	12
St. Joseph	77,939	17	1		2		4			3
St. Louis	772,397	221	27	1	1,092	3	19	2	25	18
Springfield	39,631	18								
Montana:										
Anaconda	11,668	1								
Billings	15,100	2	1						3	
Great Falls	24,121	4			1		1		1	1
Helena	12,037	7								
Missoula	12,668	7								
Nebraska:										
Lincoln	54,948	11	1		2		2			
Omaha	191,601	44	8		2		3			2
Nevada:										
Reno	12,016	3							1	
New Hampshire:										
Berlin	16,104	1								
Concord	22,167	8			1		1		2	1
Dover	13,029	4								
Keene	11,210	6			2					
New Jersey:										
Asbury Park	12,400	2			8					
Bayonne	76,754		2				1		3	
Belleville	15,660				4		3			
Bloomfield	22,019	2			6		4		2	
Clifton	26,470	7	2		5				2	1
East Orange	50,710	8			10		3		1	
Englewood	11,627	4			7		2			
Garfield	19,381	3							3	
Hackensack	17,667	5					2		1	
Harrison	15,721		2		3					
Hoboken	68,166	19					7		5	1
Jersey City	296,103		9		15		14		15	
Kearny	26,724		1		32				1	1
Long Branch	13,531	2								
Montclair	28,810	7			15		1			
Morristown	12,548	10			1				1	
Newark	414,524	100	10	1	204	4	8		17	8
Orange	33,268	13	1		23				3	2
Passaic	63,841	19	3		17		1		1	2
Paterson	135,875		11		19				3	
Perth Amboy	41,707	8					1	1	1	1
Phillipsburg	16,923	1								
Plainfield	27,700	5			4		1			
Summit	10,174	1								1
Trenton	119,289	54	11	1	3		10		11	5
Union (town)	20,651						1		1	
West Hoboken	40,074	8					2		1	1
West New York	29,926	5	1		4				1	
West Orange	15,573	8	1		9		13			1
New Mexico:										
Albuquerque	15,157	8	2		1		1		3	4
New York:										
Albany	113,344		1		7		8		5	
Amsterdam	33,524	4			1				2	
Auburn	36,192	16			2				2	3
Buffalo	508,775	185	7	2	285	8	51	4		10
Cohoes	22,937	6	2				2			
Dunkirk	19,336	8			3		4			
Elmira	45,393		2				4			
Geneva	14,648	5								
Hornell	15,025	2			2					
Hudson	11,745	1								
Ithaca	17,604	2							1	
Jamestown	38,917	12			1		2			
Lackawanna	17,918	4	3		2					
Little Falls	12,029	2								
Lockport	21,308	6							1	
Middletown	18,430				11					
Mount Vernon	42,726	9	3		2		2			1

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York—Continued.										
New York.....	5,620,048	1,637	171	19	366	6	204	3	245	122
Newburgh.....	30,366	14							2	2
Niagara Falls.....	50,760	13			1		1		1	
Olean.....	20,506	6			77		14			
Peekskill.....	15,868	8			22		3			
Port Chester.....	16,573	3								
Poughkeepsie.....	35,000	19					3		1	
Rochester.....	295,750	65	2		60				8	1
Rome.....	26,341	13								2
Saratoga Springs.....	13,181	5	1							
Schenectady.....	88,723	25	1	1	3	1	3		3	
Syracuse.....	171,717	45	3		35	1	20		10	2
Troy.....	72,013	29	3	1			1		2	
Watertown.....	31,285	14	3				1			2
White Plains.....	21,031	4			7		2		2	
Yonkers.....	100,176	25	1		4		7			3
North Carolina:										
Durham.....	21,719	9			97					
Greensboro.....	15,861	11	1		14					
Raleigh.....	24,418	22	1		97					2
Wilmington.....	33,372	13			1		1			1
Winston-Salem.....	48,395	9					2		3	
North Dakota:										
Grand Forks.....	14,010				2		2			
Ohio:										
Akron.....	208,435	25	3		45		7		1	
Ashtabula.....	22,082	9								
Barberton.....	18,811	1			11		1			
Bucyrus.....	10,425	2			8		1			1
Cambridge.....	13,104	6			4		2			
Canton.....	87,091	23			4		2		1	
Cincinnati.....	401,247	151	7		36		13	1	17	11
Cleveland Heights.....	15,236				35		7			
Columbus.....	237,031	82	3		158		7	1	5	5
Dayton.....	152,559	40			18		10		1	
East Cleveland.....	27,292	4			55		6		1	
East Youngstown.....	11,237	4								
Findlay.....	17,021	9			42	1				
Fremont.....	12,468	2			2					
Hamilton.....	39,675	12		1	21		2			
Kenmore.....	12,683				2		1			
Lancaster.....	14,706	6	2		3		1			
Lima.....	41,326	14	1				3			
Lorain.....	37,295		2		34		7		1	
Mansfield.....	27,824	6			12				2	
Marion.....	27,891						1			
Martins Ferry.....	11,634	3								
Middletown.....	23,594	3			8					
New Philadelphia.....	10,718		1				1			
Newark.....	26,718	11	1		16					
Niles.....	13,080	2			9					
Piqua.....	15,044	8	1				1			1
Salem.....	10,305	4	1		1					
Sandusky.....	22,897	6			70		3			2
Springfield.....	60,840	33			177		3			3
Steubenville.....	28,508	11			3					
Tiffin.....	14,375	4			3		1			
Toledo.....	243,164	62	4		42		29	1	3	8
Youngstown.....	132,358	37	10	1	33		10		2	2
Zanesville.....	29,569	16								
Oklahoma:										
Oklahoma.....	91,295	26			2		10		2	2
Oregon:										
Portland.....	258,288	71	2		1		2		7	4
Pennsylvania:										
Allentown.....	73,502		10		64		7		3	
Altoona.....	60,331		2		32		4			
Ambridge.....	12,730				1		1			
Beaver Falls.....	12,802		1		1					
Berwick.....	12,181						1			
Bethlehem.....	50,358		4		69		5			

¹ Pulmonary only.

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
Braddock	20,879		1		4				2	
Bradford	15,525				1					
Bristol	10,273		1							
Butler	23,778				29		2			
Canonsburg	10,682		3							
Carbondale	18,640		1				2			
Carlisle	10,916				1		1			
Carnegie	11,516				1					
Carrick	10,504				4					
Chambersburg	13,171				7					
Charleroi	11,516				9		4			
Chester	58,030		1		7		2		4	
Connellsville	13,804				33					
Dickson	11,049								1	
Donora	14,131				4					
Dubois	13,681		1		6					
Easton	33,813		1		5				1	
Erie	93,372		6		33		5		1	
Farrell	15,586				20					
Greensburg	15,033		1				2			
Harrisburg	75,917		1		37		3			
Hazleton	32,277								3	
Homestead	20,452		1		11					
Jeanette	10,627				14					
Johnstown	67,327				16		14			
Lancaster	53,150		5		67		3			
McKees Rocks	16,713		2		16		1			
McKeesport	46,781		1		2				5	
Mahanoy City	15,509		2							
Monessen	18,179						1			
Nanticoke	22,614				8		2			
New Castle	44,938				2		1			
New Kensington	11,967		2		10					
Norristown	32,319		3		1					
North Braddock	14,928				2					
Oil City	21,274		2		93					
Philadelphia	1,823,779	622	75	3	134	7	49		53	48
Phoenixville	10,484				2					
Pittsburgh	588,343		22		378		18		20	
Pottstown	17,431				9					
Pottsville	21,876				7					
Puxsuntawney	10,311						1			
Reading	107,784				27		2		2	
Scranton	137,783		2		33				10	
Shamokin	21,204				5		2			
Sharon	21,747		1		36					
Steelton	13,428		1							
Sunbury	15,721				3					
Swissvale	10,906		1		3					
Tamaqua	12,363				2		1			
Uniontown	15,692		1		20		1			
Warren	14,272				1				2	
West Chester	11,717		2		2		3			
Wilkes-Barre	73,833				3		2			
Wilkesburg	24,403				32					
Williamsport	36,198		3							
Woodlawn	12,495								1	
York	47,512		4		82		6		1	
Rhode Island:										
Cranston	29,407	4			6		1			
Cumberland (town)	10,077	5					1			
East Providence (town)	21,793				1					
Newport	30,255	5	1		11		1			
Pawtucket	64,248	27					2			
Providence	237,595	85	8		131	4	6		3	
South Carolina:										
Charleston	67,957	23					1			3
Columbia	37,524	17	1		1				4	1
Greenville	23,127	8			1					
South Dakota:										
Sioux Falls	25,202	6	1		2		6			

CITY REPORTS FOR WEEK ENDED APRIL 7, 1923—Continued.

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Tennessee:										
Knoxville.....	77,818	82			20		1		4	4
Memphis.....	162,351	60	5		63	2	3		13	10
Nashville.....	118,342					8				4
Texas:										
Austin.....	34,876	6			15				1	
Beaumont.....	40,422	8								1
Dallas.....	158,976	57	6	1	1		1		3	4
El Paso.....	77,560	43			57	2			57	12
Fort Worth.....	106,482	23	1		1		2		3	3
Galveston.....	44,255	14	1				1			
Houston.....	138,276	38					2			2
San Angelo.....	10,060	18								7
San Antonio.....	161,379	79	2		2					12
Waco.....	38,500	18			13					
Utah:										
Salt Lake City.....	118,110	40			8		1		1	2
Vermont:										
Barre.....	10,008						1			
Burlington.....	22,779	7			4		1			
Rutland.....	14,954	7								
Virginia:										
Alexandria.....	18,060	5	1		5					
Charlottesville.....	10,688	5								1
Lynchburg.....	30,070	8			102	1				
Norfolk.....	115,777		3		41		1		4	2
Petersburg.....	31,012	12			4				2	1
Richmond.....	171,667	52	2		212	1	4		17	3
Roanoke.....	50,842	16			146	1				2
Washington:										
Bellingham.....	25,585						2			
Everett.....	27,644		1							
Seattle.....	315,312		5		4		4		22	
Spokane.....	104,437		10				13		12	
Tacoma.....	96,965		1		1		1			
Walla Walla.....	15,503		1							
West Virginia:										
Charleston.....	39,608	13	1		3				5	
Clarksburg.....	27,889	6			4		2			
Fairmont.....	17,851				2		4			
Huntington.....	50,177	24	2		7		1		1	
Martinsburg.....	12,515				7					
Morgantown.....	12,127				4					
Moundsville.....	10,669	4	1	1						
Parkersburg.....	20,050	11	3							
Wheeling.....	56,208	24	2		72		2		3	1
Wisconsin:										
Appleton.....	19,561	6								
Beloit.....	21,284	8	2		29		9		2	
Fond du Lac.....	23,427	6					1			
Green Bay.....	31,017				3		3			
Janesville.....	18,293	9			20		2			1
Kenosha.....	40,472	12			11				1	
Madison.....	38,378	4	1		230		2			
Manitowoc.....	17,563						4			
Marinette.....	13,610	3					1			
Milwaukee.....	457,147	123	13	2	90		226	3	6	9
Oshkosh.....	33,162	11	1		5		2		2	
Racine.....	58,593	16		1	59		3			1
Sheboygan.....	30,955	8	1		9		1			
Stevens Point.....	11,371				36					
Superior.....	39,671	11	1		22					
Waukesha.....	12,558				14		3		1	
Wausau.....	18,661				67					
West Allis.....	13,745				4		8			
Wyoming:										
Cheyenne.....	13,829	0								

FOREIGN AND INSULAR.

AUSTRALIA.

Anthrax—New South Wales.

Information dated February 20, 1923, shows the occurrence of two cases of anthrax in the State of New South Wales, Australia, during the month of December, 1922. Of five lots of shaving brushes submitted to the health authorities, three were found to be infected with anthrax and the remaining two lots belonged to types of brushes previously found to be infected. Under date of January 21, 1923, a case of anthrax was reported at Albury, a locality situated on the border of New South Wales and the State of Victoria.¹

Tick Eradication—Compulsory Dipping of Cattle.

According to information dated February 20, 1923, the tick has been eradicated from all parts of New South Wales, except in the northern section along the Tweed River, where compulsory dipping of animals, which was ordered to be carried out, December, 1921, was later suspended. The tick was stated to be prevalent in this section.

CANARY ISLANDS.

Plague—January–March, 1923.

The occurrence of plague in the Canary Islands has been reported, under date of March 26, 1923, as follows: January 15, 1923, one fatal case; March 1 to 14, five fatal cases; March 17, two cases with one death.

Rodent Plague.

On the same date plague was stated to have been present among rodents during the months of February and March, 1923.

CHILE.

Mortality—Concepcion—February, 1923.

During the month of February, 1923, 265 deaths were notified at Concepcion, Chile, including deaths from certain diseases as follows: Pneumonia, 75; smallpox, 3; tuberculosis, 18; typhoid fever, 3; typhus fever, 3.

¹ Public Health Reports, Apr. 13, 1923, p. 809.

COLOMBIA.

Epidemic Disease—Bucaramanga.

During March, 1923, reports were received of an undetermined epidemic disease at Bucaramanga, Colombia,^{1a} which it was thought might be yellow fever, particularly in view of the fact that Bucaramanga is known to have suffered from epidemics of yellow fever in previous years. A report dated March 29, 1923, stated that within 4 months 73 cases of the disease with 15 deaths had been reported at Bucaramanga, and that the disease had been pronounced locally to be Weil's disease and pernicious malaria.

Smallpox—Santa Marta.

An outbreak of smallpox of mild type was reported at Santa Marta, Colombia, April 18, 1923.

CUBA.

Communicable Diseases.

Communicable diseases have been notified in Cuba as follows:

Habana.

Disease.	Apr. 1-10, 1923.		Remain- ing under treat- ment Apr. 10, 1923.
	New cases.	Deaths.	
Cerebrospinal meningitis.....	1	1	a 4
Chicken pox.....	13	.....	12
Diphtheria.....	5	.....	8
Leprosy.....	.....	.....	11
Malaria.....	20	.....	b 25
Measles.....	4	.....	6
Paratyphoid fever.....	1	.....	1
Scarlet fever.....	1	.....	c 7
Typhoid fever.....	10	2	26

a From abroad, 3.

b From the interior, 17.

c From the interior, 3.

1a Public Health Reports, Mar. 23, 1923, p. 650

Provinces.

NEW CASES REPORTED MARCH 1-10, 1923.

Province.	Cerebro-spinal meningitis.	Chicken pox.	Diphtheria.	Infantile tetanus.	Malaria.	Measles.	Paratyphoid fever.	Scarlet fever.	Typhoid fever.
Camaguey.....		5	1		16				4
Habana.....		22	5		23	2		1	11
Matanzas.....		6	1				1		5
Oriente.....		10	1		59				16
Pinar del Rio.....		4	1				4		3
Santa Clara.....		34			3		1	1	16
Total.....		81	9		101	2	6	2	55

NEW CASES REPORTED MARCH 11-20, 1923.

Camaguey.....					4				
Habana.....	3	19	4		14	1	5	3	8
Matanzas.....									6
Oriente.....		11			40	1	1		18
Pinar del Rio.....		3	2				1		4
Santa Clara.....		13	1	1	3		4		6
Total.....	3	46	7	1	61	2	11	3	42

ECUADOR.

Plague—Guayaquil—Sabanilla.

During the period March 1 to 15, 1923, six cases of plague with four deaths were reported at Guayaquil and one case was reported at Sabanilla.

Plague-Infected Rats.

During the same period, of 4,500 rats examined, 33 were found plague infected.

ESTHONIA.

Communicable Diseases—February, 1923.

Communicable diseases were reported in the Republic of Esthonia during the month of February, 1923, as follows:

Disease.	Cases.	Disease.	Cases.
Diphtheria.....	31	Tuberculosis.....	123
Measles.....	416	Typhoid fever.....	48
Scarlet fever.....	90	Typhus fever.....	17
Smallpox.....	9		

¹ Paratyphus fever, cases 5.

HONDURAS.

Smallpox.

Under date of April 17, 1923, an outbreak of smallpox, stated to be of mild type, was reported in central Honduras.

JAMAICA.**Smallpox (Reported as Alastrim).**

During the three weeks ended March 31, 1923, 164 cases of smallpox (reported as alastrim) were notified in the island of Jamaica. Of these, 1 case, reported during the week ended March 17, occurred in the Parish of Kingston.

Typhoid Fever—Kingston and Vicinity.

During the same period 7 cases of typhoid fever were notified at Kingston and 36 cases in the surrounding country.

JAPAN.**Cerebrospinal Meningitis—Taiwan Island.**

During the period March 1 to 20, 1923, 272 cases of cerebrospinal meningitis, with 136 deaths, were reported in the island of Taiwan, Japan. (Population, census of December, 1921, 3,835,811.)

MADAGASCAR.**Plague—January 16–February 15, 1923.**

During the period January 16 to February 15, 1923, 60 cases of plague with 51 deaths were reported in the island of Madagascar. For distribution according to locality, see page 920.

NEWFOUNDLAND.**Scarlet Fever—St. John's.**

Under date of April 7, 1923, 74 cases of scarlet fever were reported at St. John's, Newfoundland, 60 of these cases being among inmates of an orphanage.

PERU.**Plague—February 1–28, 1923.**

Plague has been reported in Peru as follows: February 1–15, 1923—cases, 52; deaths, 21. February 16–28, 1923—cases, 38; deaths, 36. For distribution reported according to locality, see page 921.

VIRGIN ISLANDS.

Disease Prevalence—March, 1923.

During the month of March, 1923, disease prevalence in the Virgin Islands was reported as follows:

Island and disease.	Cases.	Remarks.
St. Thomas and St. John:		
Chicken pox.....	11	
Dengue.....	9	
Gonorrhea.....	17	Imported, 8.
Influenza.....	4	At St. John, 2.
Fellagra.....	1	
Syphilis.....	2	Imported, 1.
Tuberculosis.....	3	Chronic pulmonary, 2.
St. Croix:		
Chicken pox.....	16	
Dengue.....	2	
Dysentery.....	3	Entamebic.
Filariasis.....	1	Bancrofti.
Syphilis.....	1	Secondary.

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

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

Reports Received During Week Ended April 27, 1923.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Jan. 21–Feb. 3, 1923: Cases, 1,047; deaths, 629.
Madras.....	Mar. 11–17.....	2	1	
Rangoon.....	Feb. 18–Mar. 3....	4	1	
Siam:				
Bangkok.....	Feb. 18–24.....	2	1	

PLAGUE.

British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Feb. 4–10.....	4	4	Jan. 1–31, 1923: Cases, 73; deaths, 73.
Uganda.....				
Canary Islands.....				Jan. 15–Mar. 17, 1923: Cases, 8; deaths, 7. Rodent plague, February–March, 1923.
Ceylon:				
Colombo.....	Feb. 25–Mar. 3....	6	4	Plague rodents, one.
China:				
Hongkong.....	Feb. 18–Mar. 3....	2	2	
Ecuador:				
Guayaquil.....	Mar. 1–15.....	6	4	Plague rats, examined, 4,500; found infected, 33.
Sabanilla.....	.....do.....	1		Country estate.
India.....				Feb. 11–Mar. 3, 1923: Cases, 21,679; deaths, 17,069.
Bombay.....	Feb. 21–Mar. 3....	102	85	
Karachi.....	Mar. 4–17.....	23	19	
Madras Presidency.....	.....do.....	546	373	
Madagascar:				
Province.....				Jan. 16–Feb. 15, 1923: Cases, 60; deaths, 51.
Antsirabe.....	Jan. 16–Feb. 15....	2	2	One bubonic; one septicemic.
Diego Suarez.....	.....do.....	2	2	Bubonic.
Tananarive.....	.....do.....	47	41	Cases and deaths: Bubonic, 25, 19; pneumonic, 4, 4; septicemic, 18, 18.
Tananarive.....	.....do.....	9	6	Cases and deaths: Bubonic, 4, 1; septicemic, 5, 5.

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 April 27, 1923—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru.....				Feb. 1-15, 1923: Cases, 52; deaths, 21. (All localities of occurrence not given.) Feb. 16-28, 1923: Cases, 38; deaths, 36.
Locality—				
Barranco.....	Feb. 1-15.....	1		Including district.
Canete.....	Feb. 16-28.....	4	5	
Chiclayo.....	Feb. 1-15.....	4	2	
Do.....	Feb. 16-28.....	3	2	
Cutervo.....	do.....		8	
Huacho.....	Feb. 1-15.....	7		
Do.....	Feb. 16-28.....	2		
Huara.....	Feb. 1-15.....	2		Suburbs.
Hural.....	Feb. 16-28.....	1	1	
Huarmey.....	Feb. 1-15.....	9		
Lambayeque.....	do.....	1		
Lima (city).....	do.....	2		
Do.....	Feb. 16-28.....	2		
Lima (country).....	Feb. 1-15.....	3	1	Do.
Do.....	Feb. 16-28.....	1		
Miraflores.....	Feb. 1-15.....	2	2	
Mochumi.....	do.....	1		
Do.....	Feb. 16-28.....	3	1	
Monsefu.....	Feb. 1-15.....	5	3	
Paita.....	do.....	1	1	
Do.....	Feb. 16-28.....	3	2	
Piura.....	do.....	4	4	
St. Cruz (Hualgayoc).....	do.....	9	9	
San Pedro.....	do.....	1	1	
Trujillo.....	Feb. 1-15.....	11	5	Including district.
Do.....	Feb. 16-28.....	5	3	
Siam:				
Bangkok.....	Feb. 11-24.....	36	28	
Straits Settlements:				
Singapore.....	Feb. 25-Mar. 3....	2	2	

SMALLPOX.

Bolivia:				
La Paz.....	Feb. 1-28.....	5	7	
Brazil:				
Bahia.....	Mar. 4-10.....	1		
Rio de Janeiro.....	Mar. 11-17.....	6	1	
Sao Paulo.....	Jan. 8-Feb. 18.....	5		
British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Jan. 21-Feb. 24....	27	2	
Uganda.....				Jan. 1-31, 1923: Cases, 3; deaths, 1
Canada:				
Manitoba—				
Winnipeg.....	Apr. 1-7.....	3		
Ceylon:				
Colombo.....	Feb. 25-Mar. 3....	1		
Chile:				
Concepcion.....	Feb. 1-28.....		3	
Do.....	Mar. 4-12.....		1	
China:				
Amoy.....	Mar. 4-10.....		1	
Chungking.....	Feb. 18-Mar. 3....			Present.
Hongkong.....	Feb. 18-Mar. 3....	7	4	
Chosen (Korea):				
Chemulpo.....	Feb. 1-28.....	10	8	
Fusan.....	do.....	4	1	
Seoul.....	do.....	30	14	
Colombia:				
Santa Marta.....	Apr. 18.....			Mild outbreak.
Esthonia.....				Feb. 1-28, 1923: Cases, 9.
Honduras.....				Apr. 17, 1923: Outbreak in interior.
India.....				Jan. 21-27, 1923: Cases, 3,463; deaths, 876.
Bombay.....	Feb. 11-Mar. 3....	70	41	
Karachi.....	Mar. 4-17.....	11		
Madras.....	Mar. 4-17.....	47	14	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received During Week Ended April 27, 1923—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Jamaica.....				Mar. 11-31, 1923: Cases, 164 (reported as alastrim).
Kingston.....	Mar. 11-17.....	1		
Japan:				
Taiwan Island.....	Mar. 4-10.....	1	1	
Java:				
East Java—				
Soerabaya.....	Feb. 18-24.....	1		
Mexico:				
Chihuahua.....	Mar. 19-Apr 1....	13	3	
Vera Cruz.....	Apr. 2-8.....	3	1	
Persia:				
Tabriz.....	Jan. 15-28.....		2	
Peru.....				Feb. 1-28, 1923: Cases, 8; deaths, 1 City and country.
Lima.....	Feb. 16-28.....	2		
Spain:				
Valencia.....	Mar. 25-31.....	15		
Switzerland:				
Basel.....	Mar. 18-24.....	1		
Berne.....	Mar. 11-17.....	12		
Zurich.....	Mar. 11-24.....	23		
Syria:				
Aleppo.....	Mar. 18-24.....	1		
Union of South Africa:				Outbreaks. Do.
Cape Province.....	Feb. 25-Mar. 3....			
Transvaal.....	do.....			
On vessel:				
S. S. Tenyo Maru.....	Mar. 20.....	1		At Shanghai, China, from Japan. Case in steerage passenger.

TYPHUS FEVER.

Bolivia:				
La Paz.....	Feb. 1-28.....	9	12	
Bulgaria:				Paratyphus, 1 case.
Sofia.....	Feb. 18-24.....	1		
Chile:				
Concepcion.....	Feb. 1-28.....		3	
Talcahuano.....	Mar. 11-17.....	1		
Egypt:				
Cairo.....	Jan. 8-21.....	4	2	
Esthonia.....				Feb. 1-28, 1923: Cases, 7.
Germany:				
Coblentz.....	Mar. 25-31.....	1		
Mexico:				
San Luis Potosi.....	Apr. 1-7.....		1	
Persia:				
Tabriz.....	Jan. 15-28.....		1	
Russia:				
Siberia—				
Vladivostok.....	Feb. 1-28.....	87		Indefinite, cases, 23.
Spain:				
Madrid.....	do.....		1	
Syria:				
Aleppo.....	Mar. 18-24.....	9	3	
Turkey:				
Constantinople.....	Mar. 4-10.....	129	28	
Union of South Africa:				
Cape Province—				
Port Elizabeth.....	Feb. 4-10.....	2		
Orange Free State.....	Feb. 25-Mar. 3....			Outbreaks.

YELLOW FEVER.

Brazil:				
Bahia.....	Mar. 4-10.....	5		

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

Reports Received from December 30, 1922, to April 29, 1923.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Liutaoku.....	Sept. 22.....	60	20	
Chosen (Korea):				
Yalu River Region.....				Sept. 22, 1922: 30 deaths reported.
India:				Sept. 24-Dec. 30, 1922: Cases, 14,637; deaths, 8,833. Dec. 31, 1922-Jan. 20, 1923: Cases, 2,631; deaths, 1,553.
Bombay.....	Oct. 27-Dec. 23.....	2	1	
Do.....	Feb. 4-10.....	2	2	
Calcutta.....	Nov. 12-Dec. 30.....	102	60	
Do.....	Dec. 31-Mar. 3.....	248	164	
Madras.....	Nov. 19-Dec. 16.....	4	2	
Do.....	Jan. 21-Feb. 24.....	9	4	
Rangoon.....	Nov. 12-Dec. 23.....	17	10	
Do.....	Dec. 31-Feb. 17.....	4	3	
Philippine Islands:				
Province—				
Laguna.....	Oct. 12-18.....	1		
Russia:				Jan. 1-Oct. 7, 1922: Cases, 83,367.
Archangel (Government)...	Oct. 1-7.....	7		
Moscow.....	Jan. 1-31.....	1		
Tashkent.....	Oct. 1-7.....	27		Turkestan Republic: 3 cases reported on waterways.
Ukraine.				Sept. 1-30, 1922: Cases, 119.
Donetz (Government)...	Sept. 1-30.....	29		
Tchernigov (Government).	do.....	36		
Siam:				
Bangkok.....	Oct. 29-Dec. 23.....	4	1	
Do.....	Dec. 31-Jan. 27.....	3		

PLAGUE.

Argentina:				
Rosario.....	Feb. 10-27.....	8	3	
Azores:				
Fayal Island—				
Castelo Branco.....	Dec. 2-31.....		3	Vicinity of Horta. Dec. 30, 1922: Several cases.
Do.....	Mar. 2-18.....	2		Actual occurrence about Mar. 6, 1923.
Horta.....	Mar. 23.....	1		
Pico Island—				
Lages.....	Nov. 27-Dec. 15.....		8	1 case present Dec. 15, 1922.
St. Michaels Island.....				Nov. 12-Dec. 30, 1922: Cases, 100; deaths, 35. At localities 3-9 miles from Ponta Delgada.
Ponta Delgada.....	Nov. 26-Dec. 9.....	3		Dec. 31, 1922-Feb. 24, 1923: Cases, 126; deaths, 52. From 6 to 20 miles distant from port of Ponta Delgada.
Brazil:				
Bahia.....	Oct. 29-Dec. 30.....	5	5	
Do.....	Jan. 28-Feb. 3.....	1	1	
Pernambuco.....	Jan. 14-20.....	3	2	
Porto Alegre.....	Nov. 19-25.....	1		
British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Oct. 15-Dec. 16.....	12	7	
Do.....	Jan. 14-20.....	7	6	
Uganda.....	Dec. 1-31.....	141	129	
Entebbe.....	Nov. 24-30.....	211	202	
Celebes:				
Macassar.....	Feb. 15.....			Present, bubonic; epidemic, pneumonic.
Ceylon:				
Colombo.....	Nov. 12-Dec. 30.....	46	38	Plague rodents, 16.
Do.....	Dec. 31-Feb. 24.....	61	53	Plague rodents, 17.
Chile:				
Antofagasta.....				Quarantine. Year, 1922. March, 1 case; May, 1 case.
China:				
Hongkong.....	Nov. 5-Dec. 23.....	14	12	
Do.....	Dec. 31-Jan. 6.....	1		
Manchuria—				
Harbin.....	Jan. 29-Feb. 4.....	7		

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 from December 30, 1922, to April 20, 1923—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Guayaquil.....	Nov. 1-Dec. 31....	9	3	Rats examined, 16,600; found infected, 72.
Do.....	Jan. 1-Feb. 28....	18	5	Rats examined, 17,900; found infected, 83.
Egypt:				Jan. 1-Dec. 28, 1922: Cases, 485; deaths, 228. Jan. 1, 1922-Jan. 4, 1923: Cases, 487; deaths, 228.
City—				Jan. 1-Mar. 8, 1923: Cases, 27; deaths, 17.
Alexandria.....	Nov. 19-25.....	2	1	
Do.....	Jan. 8-10.....	1	1	
Port Said.....	Nov. 19-27.....	4	2	
Do.....	Jan. 26-Mar. 5....	2	1	
Suez.....	Nov. 18-Dec. 5....	3	4	
Do.....	Mar. 2.....	1	1	
Province—				
Assiout.....	Nov. 19-Dec. 29....	4	1	Septicemic: 1 case, 1 death.
Do.....	Jan. 26-Mar. 8....	14	9	Pneumonic: 6 cases, 4 deaths; septicemic, 1 case, 1 death.
Dakahlieh.....	Dec. 3.....	1	1	Pneumonic.
Kena.....	Mar. 8.....	1	1	Pneumonic, 1 death.
Minieh.....	Nov. 18-27.....	2	1	
Do.....	Feb. 24.....		1	
Hawaii:				
Honokaa.....				Feb. 8-9, 1923: Plague rats, 3.
Do.....				Mar. 24-25, 1923: Plague rats, 2. In vicinity Pacific Sugar Co., near Honokaa.
India:				Oct. 1-Dec. 30, 1922: Cases, 25,007; deaths, 18,803. (Report for Nov. 19-25, 1922, not received.)
Bombay.....	Oct. 27-Dec. 30....	41	32	Dec. 31, 1922-Feb. 10, 1923: Cases, 31,619; deaths, 24,706.
Do.....	Dec. 31-Feb. 10....	44	34	
Calcutta.....	Feb. 11-24.....	2	2	
Karachi.....	Dec. 10-16.....	1	1	
Do.....	Dec. 31-Mar. 3....	18	15	
Madras Presidency.....	Nov. 19-Dec. 30....	2,209	1,448	
Do.....	Dec. 31-Mar. 3....	4,054	3,010	
Madras.....	Nov. 19-25.....	1	1	
Do.....	Jan. 21-27.....	1	1	
Rangoon.....	Nov. 12-Dec. 30....	52	49	
Do.....	Dec. 31-Feb. 17....	122	108	
Iraq (Mesopotamia):				
Bagdad.....	Oct. 1-Nov. 30....	16		
Do.....	Jan. 1-31.....	3		
Japan:				
Osaka.....				July 1-Nov. 30, 1922: Cases, 70.
Java:				Oct. 1-Nov. 3, 1922: Cases, 900; deaths, 763. Jan. 1-31, 1923: Cases, 490; deaths, 549.
East Java:				Dec. 1-31, 1922: Deaths, 990.
Residences—				
Pekalongan.....	Dec. 1-31.....	56		
do.....		202		
Soerabaya.....	Oct. 22-Dec. 31....	34	14	
Do.....	Jan. 14-20.....	2	2	Jan. 17-23, 1923: Cases, 5; deaths, 3.
Toelong-Agoeng.....	Oct. 29-Dec. 16....	18	18	Not a seaport.
Soerakarta—				
Klaten.....	Nov. 4.....			Present in epidemic form.
Madagascar:				Jan. 1-Dec. 10, 1923: Cases, 143.
Province—				Jan. 1-15, 1923: Cases, 22.
Diego Suarez.....	Jan. 1-31.....	2		
Moramanga.....				To Nov. 12, 1922: Cases, 24; deaths, 21. Cases reported to Oct. 30, pneumonic.
Amparafara region.....	Sept. 18-Nov. 5....	21		Bubonic, 18; septicemic, 3 (doubtful, 2).
Moramanga.....	Dec. 6-9.....	3		Bubonic.
Tamatave.....	Feb. 10-Sept. 12....	10		Do.
Miarinarivo.....				Dec. 14, 1922-Jan. 1, 1923: 1 case (European).
Tananarive.....				Jan. 1-Dec. 10, 1922: Cases, 73 (bubonic, 37; pneumonic, 8; septicemic, 28). Jan. 1-15, 1923: Cases, 19.
Ambohiman-gakeley.....	Nov. 19-Dec. 9....	9		Bubonic, 3; pneumonic, 3; septicemic, 3.
Anketrina.....	Mar. 27-May 9....	11		Bubonic, 4; pneumonic, 2; septicemic, 5 (3 doubtful).

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Madagascar—Continued.				
Province—Continued.				
Tananarive—Cont.				
Fencarivo region....	Oct. 7–Nov. 23.....	16	.....	Bubonic, 3; pneumonic, 8; septi-
Tananarive.....	Oct. 23–Dec. 10.....		5	cemic, 5.
Do.....	Dec. 14–Jan. 15.....	13	.....	1 septicemic.
Mexico:				
Tampico.....	Mar. 23.....	2	1	Plague rodent found, Mar. 14,
				1923.
Palestine:				
Jaffa.....	Nov. 27–Dec. 4.....	1	.....
Peru.....				Nov. 1–Dec. 31, 1922: Cases, 199;
Do.....				deaths, 93.
				Jan. 1–31, 1923: Cases, 151; deaths,
				59.
Localities—				
Canete.....	Nov. 16–Dec. 31....	56	19	Including vicinity.
Do.....	Jan. 1–31.....	22	7	Do.
Casma.....	do.....	1	.....	At Campina.
Catacaos.....	do.....	4	1	
Chепен.....	Dec. 16–31.....	2	1	Present, Nov. 9–15, 1922.
Do.....	Jan. 1–31.....	1	.....
Chiclayo (city and country).	Nov. 16–Dec. 15....	17	7	
Do.....	Jan. 1–31.....	18	9	
Eten.....	Nov. 16–Dec. 15....	4	.....
Guadeloupe.....	Nov. 1–Dec. 31....	22	12	
Do.....	Jan. 1–31.....	4	1	
Huacho.....	Nov. 16–Dec. 31....	4	2	
Do.....	Jan. 1–31.....	4	1	
Huara.....	do.....	6	.....	Country.
Huaral.....	Nov. 16–30.....	1	.....
Do.....	Jan. 1–31.....	3	1	
Huarmey.....	Dec. 1–31.....	2	2	
Jayanca.....	Nov. 16–Dec. 31....	10	8	
Lambayeque.....	do.....	7	3	
Do.....	Jan. 1–31.....	9	7	
Lima (city).....	Nov. 1–Dec. 31....	11	8	
Do.....	Jan. 1–31.....	1	1	
Lima (country).....	Nov. 1–Dec. 31....	14	5	
Do.....	Jan. 1–31.....	4	2	
Lurin.....	Dec. 1–15.....	1	.....
Magdalena del Mar.....	Nov. 16–30.....	1	.....
Do.....	Jan. 1–31.....	1	1	
Magdalena Vieja.....	Dec. 16–31.....	1	1	
Mala.....	Dec. 1–31.....	2	.....
Do.....	Jan. 1–31.....	4	.....
Miraflores.....	Jan. 1–23.....	3	.....
Mochumi.....	Dec. 16–31.....	3	3	
Mosche.....	Nov. 16–30.....	2	1	
Paiza.....	Dec. 16–31.....	3	2	
Do.....	Jan. 1–31.....	10	7	
Piura.....	Nov. 16–Dec. 31....	12	7	
Do.....	Jan. 1–31.....	14	4	
Pueblo Nuevo.....	Dec. 1–31.....	7	4	
Do.....	Jan. 1–31.....	10	6	
San Pedro.....	Nov. 1–Dec. 31....	8	4	
Do.....	Jan. 1–31.....	6	3	
Sullana.....	Nov. 16–30.....	3	3	
Do.....	Jan. 1–31.....	1	1	
Trujillo.....	Nov. 1–Dec. 31....	3	1	
Do.....	Jan. 1–31.....	25	7	District.
Tuman.....	Nov. 16–30.....	3	.....
Portugal:				
Lisbon.....	Nov. 10–29.....	4	2	
Oporto.....	Jan. 21–27.....		1	
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 1–Dec. 30.....		45	Fatal cases among white popula-
Do.....	Dec. 31–Jan. 20....	2	.....	tion.
Russia:				
Kirghiz Republic.....				Dec. 2, 1922–Feb. 16, 1923: Cases,
				116 (pneumonic), occurring in
				2 out of 6 governments.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from December 30, 1922, to April 30, 1923—Continued.****PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Siam:				
Bangkok.....	Nov. 12-Dec. 23...	5	5	
Do.....	Dec. 31-Feb. 10...	14	11	
Spain:				
Barcelona.....	Nov. 15-Dec. 18...	1	.....	Sept. 24-Nov. 14, 1922: Cases, 23; deaths, 9.
Malaga.....	Jan. 27.....	3	.....	17 suspected cases.
Straits Settlements:				
Singapore.....	Dec. 17-23.....	2	2	
Do.....	Jan. 21-Feb. 17...	2	2	
Syria:				
Beirut.....	Nov. 6-30.....	4	3	
Turkey:				
Constantinople.....	Nov. 22-28.....	2	.....
Do.....	Jan. 28-Feb. 10...	2	.....
Union of South Africa:				
Transvaal—				
Klipfontein Farm.....	Dec. 16.....	2	1	Natives. Jan. 25, 1923: Plague-infected wild rodent found in vicinity.
West Africa:				
Senegal—				
Dakar.....	Feb. 1-28.....	2	2	
On vessels:				
S. S. Helcion.....	Dec. 1.....	1	.....	At Thursday Island Quarantine, Australia, from Singapore, Straits Settlements. In Chinese firemen.
S. S. —.....	Dec. 30.....	.....	.....	At port of London: plague-infected rats and cats found in grain cargo on vessel from South America.

SMALLPOX.

Algeria:				
Algiers.....	Dec. 1-10.....	1	.....
Do.....	Jan. 1-Feb. 20...	2	.....
Arabia:				
Aden.....	Nov. 19-Dec. 23...	7	3	
Do.....	Jan. 7-Mar. 10...	21	2	
Bolivia:				
La Paz.....	Jan. 1-31.....	6	4	
Brazil:				
Bahia.....	Nov. 5-11.....	1	.....
Para.....	Feb. 12-Mar. 18...	13	.....
Pernambuco.....	Jan. 21-27.....	1	1	
Rio de Janeiro.....	Nov. 25-Dec. 30...	40	15	
Do.....	Dec. 31-Mar. 10...	42	22	
Sao Paulo.....	Oct. 16-22.....	1	1	
British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Oct. 8-Dec. 23.....	193	10	
Do.....	Jan. 7-20.....	17	.....
Uganda.....	Sept. 1-Dec. 31...	3	1	
Entebbe.....	Nov. 24-30.....	3	3	
Canada:				
Alberta—				
Calgary.....	Mar. 4-10.....	1	.....
British Columbia—				
Fernie.....	Mar. 18-24.....	1	.....
Manitoba—				
Winnipeg.....	Dec. 10-30.....	14	.....
Do.....	Jan. 21-Mar. 31...	36	.....
New Brunswick—				
Northumberland				
County.....	Jan. 21-Feb. 17...	8	.....
Restigouche County...	Mar. 11-17.....	1	1	
Ontario				
Hamilton.....	Dec. 31-Feb. 24...	7	.....	Dec. 1-31, 1922: Cases, 51; deaths, 92.
Niagara Falls.....	Dec. 3-30.....	10	.....
Do.....	Dec. 31-Jan. 12...	12	.....
Ottawa.....	Dec. 10-23.....	6	.....
Do.....	Jan. 7-Mar. 31...	21	1	
Toronto.....	Dec. 10-30.....	2	.....
Do.....	Feb. 4-10.....	1	.....

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Quebec—				
Quebec.....	Jan. 14-20.....	3	2	
Sherbrooke.....	Mar. 1-31.....			
Saskatchewan—				
Regina.....	Dec. 3-23.....	2		
Ceylon:				
Colombo.....	Nov. 12-Dec. 24...	9	4	1 case, 1 death outside city.
Do.....	Feb. 13-24.....	1		
Chile:				
Concepcion.....	Oct. 30-Dec. 25.....		7	
Do.....	Feb. 6-26.....		5	
Valparaiso.....	Oct. 2-Dec. 26.....	4	54	In hospital, 83 cases.
Do.....	Jan. 9-Feb. 10.....		90	Dec. 31, 1922-Jan. 27, 1923: Deaths, 66. Feb. 16, 1923: 80 cases present (estimated).
China:				
Amoy.....	Nov. 5-Dec. 23.....		3	Nov. 26-Dec. 30, 1922: Present.
Do.....	Jan. 7-Mar. 3.....		6	
Antung.....	Nov. 13-Dec. 10.....	2		
Do.....	Feb. 26-Mar. 4.....	1		
Canton.....	Oct. 1—Nov. 30.....			Prevalent.
Do.....	Jan. 21-Feb. 17.....			Present.
Changsha.....	Feb. 11-17.....	1		
Chungking.....	Nov. 5-Dec. 30.....			Do.
Do.....	Dec. 31-Feb. 17.....			Do.
Foochow.....	Nov. 12-Dec. 30.....			Do.
Do.....	Dec. 31-Feb. 24.....			Do.
Hankow.....	Dec. 31-Jan. 20.....	4	1	
Hongkong.....	Nov. 5-11.....		1	
Do.....	Dec. 31-Feb. 17.....	9	2	
Manchuria—				
Harbin.....	Nov. 20-Dec. 31.....	13		
Do.....	Jan. 8-Feb. 11.....	7		
Mukden.....	Nov. 19-Dec. 16.....			Do.
Do.....	Jan. 7-Feb. 3.....			Do.
Nanking.....	Nov. 5-Dec. 23.....			Do.
Do.....	Jan. 7-Mar. 3.....			Do.
Shanghai.....	Jan. 15-Feb. 25.....	3	1	Foreign. Death, Chinese.
Tientsin.....	Feb. 18-24.....	1		Reported from foreign office.
Chosen (Korea):				
Chemulpo.....	Oct. 1-Dec. 31.....	135	84	
Do.....	Jan. 1-31.....	26	17	
Fusan.....	Nov. 1-Dec. 31.....	4		
Do.....	Jan. 1-31.....	5		
Gensan.....	Dec. 1-31.....	6	2	
Seoul.....	Oct. 1-Dec. 31.....	19	1	
Do.....	Jan. 1-31.....	35	11	
Colombia:				
Buenaventura.....	Jan. 25-Feb. 20.....	48		Estimated, 50 cases present: type mild; among colored population. Feb. 16-26, 1923: 6 to 9 cases 2 miles from town limits.
Cuba:				
Province—				
Camaguey.....	Nov. 11-Dec. 31.....	20		
Matanzas.....	Jan. 1-31.....	2		
Oriente.....	Nov. 21-Dec. 31.....	22		
Do.....	Jan. 1-Feb. 10.....	10		
Santa Clara.....	Dec. 21-31.....	1		
Czechoslovakia				
Province—				
Bohemia.....	Oct. 1-31.....	1		
Moravia.....	do.....	1		
Slovakia.....	Oct. 1-Nov. 30.....	2		
Dominica (West Indies).....				Oct. 1-31, 1922: Cases, 3.
Dominican Republic:				
Fuerto Plata.....	Dec. 14-30.....	2		
Santo Domingo.....	Dec. 3-16.....			Present.
Do.....	Feb. 23-Mar. 6.....	3		
San Pedro de Macoris.....	Jan. 12-19.....	2		
Ecuador:				
Guayaquil.....	Dec. 1-31.....	10		
Do.....	Jan. 1-Feb. 23.....	11		

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt:				
Alexandria.....	Feb. 19-25.....	1		
Port Said.....	Jan. 21-27.....	1		
Esthonia.....				Oct. 1-Dec. 31, 1922: Cases, 61.
Do.....				Jan. 1-31, 1923: Cases, 16.
France:				
Paris.....	Dec. 1-10.....	1		
Germany:				
Bremen.....	Dec. 3-9.....	1		
Great Britain:				
Liverpool.....	Dec. 11-17.....	1		From vessel.
London.....	Nov. 26-Dec. 23.....	3		
Nottingham.....	Nov. 19-Dec. 13.....	4		
Do.....	Jan. 7-Mar. 10.....	16		
Greece:				
Kalamata.....	Jan. 13-Feb. 13.....		1	
Patras.....	Jan. 21-Feb. 17.....		84	
Saloniki.....	Nov. 6-Dec. 31.....	6	5	
Do.....	Jan. 15-Feb. 18.....	9	1	
Zante.....				Epidemic, Jan. 17, 1923
Do.....	Jan. 7-14.....	13	4	
Guadaloupe (West Indies).....				Feb. 26, 1923: Present. Reported as alastrim.
Guatemala:				
Guatemala City.....	Feb. 23.....			Present.
India:				Nov. 5-Dec. 30, 1922: Cases, 5,783; deaths, 333. Dec. 31, 1922-Jan. 20, 1923: Cases, 4,316; deaths, 1,633.
Bombay.....	Nov. 5-Dec. 30.....	22	10	
Do.....	Dec. 31-Feb. 10.....	56	25	
Calcutta.....	Nov. 12-Dec. 30.....	46	23	
Do.....	Dec. 31-Mar. 3.....	126	70	
Karachi.....	Nov. 26-Dec. 30.....	6		
Do.....	Dec. 31-Mar. 3.....	38	16	
Madras.....	Nov. 12-Dec. 30.....	71	23	
Do.....	Dec. 31-Mar. 3.....	204	57	
Rangoon.....	Nov. 5-Dec. 30.....	27	6	
Do.....	Jan. 7-Feb. 17.....	93	36	
Iraq (Mesopotamia):				
Bagdad.....	Oct. 1-Nov. 30.....	568	361	
Do.....	Jan. 1-31.....	32	20	
Jamaica.....				Dec. 31, 1922-Mar. 10, 1923: Cases, 393. Reported as alastrim.
Japan:				
Kobe.....	Jan. 13-Feb. 16.....	6	2	
Yokohama.....	Jan. 22-28.....	1		
Java:				
East Java—				
Soerabaya.....	Nov. 5-11.....	4		
Do.....	Feb. 4-10.....	2		
West Java—				
Batavia.....	Nov. 11-Dec. 22.....	25	1	City and Province.
Do.....	Jan. 27-Feb. 23.....	7	1	Province.
Latvia.....				Oct. 1-Dec. 31, 1922: Cases, 7.
Martinique.....				Mar. 31, 1923: Present. Reported as alastrim.
Mexico:				
Chihuahua.....	Dec. 4-17.....		4	
Do.....	Jan. 1-Mar. 18.....	38	17	
Guadalajara.....	Dec. 1-31.....	4		
Do.....	Jan. 1-Feb. 28.....	54		
Mexico City.....	Nov. 12-Dec. 23.....	43		Including municipalities in Federal district.
Do.....	Dec. 31-Mar. 3.....	168		Do.
Nogales.....	Dec. 10-19.....		1	
Do.....	Dec. 31-Feb. 10.....		2	
Saltillo.....	Jan. 28-Feb. 3.....		1	
San Luis Potosi.....	Jan. 14-20.....		1	
Sonora, State.....				Nov. 1-30, 1922: Present in northern section.
Empalme.....	Nov. 1-30.....	4	1	Present in some localities.
Tabasco, State.....				
Torreón.....	Dec. 1-31.....		1	
Vera Cruz.....	Feb. 26-Mar. 11.....	9	4	
Palestine.....				Jan. 23-Feb. 19, 1923: Cases, 8. Northern district.
Persia:				
Tabriz.....	Dec. 18-31.....		2	
Tehran.....	Oct. 24-Dec. 22.....		139	

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru:				
Callao.....	Nov. 1-15.....	2	1	
Lima (city).....	Dec. 1-15.....	3	1	
Lima (country).....	Nov. 1-15.....	2	1	
Poland:				Oct. 1-Dec. 23, 1922: Cases, 132; deaths, 26. Jan. 1-31, 1923: Cases, 50; deaths, 6.
Portugal:				
Lisbon.....	Nov. 19-Dec. 30.....	143	34	
Do.....	Dec. 31-Mar. 13.....	152	74	Dec. 25-31, 1922: Deaths, 12.
Oporto.....	Oct. 15-Dec. 30.....	24	12	Feb. 19-Mar. 3, 1923: Cases, 17 deaths, 3.
Do.....	Dec. 31-Mar. 17.....	22	11	Jan. 5-20, 1923: Cases, 22; deaths, 6.
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 27-Nov. 11.....		10	
Rumania:				
Bucharest.....	Feb. 1-10.....	1		
Chisinau.....	Jan. 1-Feb. 28.....	26		
Galatz.....	Feb. 1-10.....	2		
Russia:				
City—				
Moscow.....				Jan. 1-31, 1923: Cases treated in hospital, 10.
Province—				
Ukraine.....				Jan.-Sept., 1922: Cases, 8,744.
Sierra Leone:				
Freetown.....	Feb. 16-28.....	1		
Spain:				
Corunna.....	Nov. 26-Dec. 2.....		1	
Huelva.....	Nov. 24-Dec. 31.....		4	
Madrid.....	Dec. 1-31.....		1	
Do.....	Jan. 1-31.....		1	
Seville.....	Nov. 27-Dec. 31.....		32	
Do.....	Jan. 1-Mar. 11.....		16	
Valencia.....	Nov. 26-Dec. 23.....	3		
Do.....	Dec. 31-Mar. 24.....	33	2	
Switzerland:				
Basel.....	Feb. 23-Mar. 3.....	3		
Berne.....	Nov. 19-Dec. 30.....	85		
Do.....	Dec. 31-Mar. 10.....	166		
Lucerne.....	Jan. 1-31.....	6		
Zurich.....	Nov. 19-Dec. 30.....	19		
Do.....	Jan. 14-Mar. 10.....	15		
Syria:				
Aleppo.....	Nov. 19-Dec. 23.....	38	20	
Do.....	Dec. 31-Mar. 17.....	28	6	
Beirut.....	Dec. 11-20.....	1		
Damascus.....	Nov. 1-Dec. 31.....	97	16	
Do.....	Jan. 1-Feb. 20.....	22		
Tunis:				
Tunis.....	Dec. 1-22.....	2	1	
Do.....	Jan. 22-Feb. 4.....	1	1	
Turkey:				
Constantinople.....	Nov. 19-Dec. 16.....	122	34	
Do.....	Dec. 31-Feb. 23.....	416	144	
Union of South Africa.				Oct. 1-Dec. 31, 1922: Cases—Colored, 64; deaths, 1; white, cases, 4.
Do.....				Jan. 1-31, 1923: Cases, 22; colored, 18, white, 4; deaths, 1 (colored).
Cape Province				Oct. 1-Dec. 31, 1922: Cases—Colored, 48; deaths, 1; white, 4 cases.
Do.....				Jan. 1-31, 1923: Cases, 14 (colored, 10, white, 4).
Do.....	Dec. 31-Feb. 25.....			Outbreaks.
East London.....	Jan. 7-13.....	2		
Natal.				Dec. 1-31, 1922: Cases, 6 (colored).
Do.....				Jan. 1-31, 1923: Cases, 4; deaths, 1 (colored).
Do.....	Feb. 4-10.....			Outbreaks.
Orange Free State.				Dec. 1-31, 1922: Cases, 2 (colored).
Do.....				Jan. 1-31, 1923: Cases, 3 (colored).
Do.....	Jan. 14-Feb. 3.....			Outbreaks.

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Con. Southern Rhodesia Transvaal.	Nov. 9-15.....	3	.....	Oct. 1-Dec. 31, 1922: Cases, 10.
Do.	.....	.....	.....	Jan. 1-31, 1923: Cases, 1 (colored). Outbreaks.
Do.	Dec. 31-Feb. 10.....	.....	.....	.....
Johannesburg.	Nov. 1-30.....	.....	1	.....
Do.	Jan. 1-31.....	1	.....	.....
Yugoslavia.	.....	.....	.....	Aug. 1-31, 1922: Cases, 30; deaths, 12.
Serbia.	.....	.....	.....	Aug. 1-31, 1922: Cases, 26.
Belgrade.	Nov. 12-Dec. 31.....	10	4	.....
On vessel:	.....	.....	.....	.....
S. S. Huntress.	Nov. 11.....	1	.....	At Fremantle, Australia; from Cape Town, South Africa.
S. S. Junin.	Jan. 13.....	1	.....	At Antofagasta, Chile. Vessel proceeded to Arica, Chile, with patient on board.
S. S. ———.	Dec. 17-23.....	1	.....	At Liverpool.

TYPHUS FEVER.

Algeria:	.....	.....	.....	.....
Algiers.	Nov. 11-Dec. 31.....	2	1	.....
Do.	Jan. 1-31.....	7	2	.....
Oran.	Jan. 11-20.....	1	1	.....
Austria:	.....	.....	.....	.....
Vienna.	Jan. 7-17.....	1	.....	.....
Bolivia:	.....	.....	.....	.....
La Paz.	Jan. 1-31.....	17	9	.....
Brazil:	.....	.....	.....	.....
Pernambuco.	Dec. 3-9.....	2	2	.....
Porto Alegre.	Nov. 19-Dec. 16.....	3	.....	.....
Do.	Feb. 25-Mar. 3.....	.....	3	.....
Bulgaria:	.....	.....	.....	.....
Sofia.	Feb. 4-10.....	1	.....	Paratyphus, 2 cases.
Chile:	.....	.....	.....	.....
Antofagasta.	Nov. 12-Dec. 30.....	24	5	Nov. 11-Dec. 5, 1922: Cases, 10; deaths, 2. Quarantine station; October, 1922—1 fatal case.
Do.	Dec. 31-Feb. 24.....	3	2	On vessel from Valparaiso;
Concepcion.	Oct. 17-Dec. 18.....	.....	9	November, 1922—cases, 7; December, 1922—cases, 9; remaining, Dec. 31, 3 cases.
Do.	Dec. 26-Jan. 15.....	.....	7	.....
Iquique.	Jan. 14-20.....	.....	1	.....
Talcahuano.	Nov. 12-Dec. 23.....	10	6	.....
Do.	Jan. 7-Mar. 10.....	6	2	.....
Valparaiso.	Dec. 3-30.....	.....	9	.....
Do.	Dec. 31-Feb. 10.....	.....	23	Daily hospital average, 25 cases.
China:	.....	.....	.....	.....
Antung.	Nov. 13-Dec. 10.....	7	.....	.....
Manchuria—	.....	.....	.....	.....
Harbin.	Nov. 20-26.....	7	.....	.....
Do.	Jan. 1-Feb. 18.....	7	.....	.....
Cuba:	.....	.....	.....	.....
Matanzas.	Dec. 25-31.....	1	1	.....
Czechoslovakia:	.....	.....	.....	.....
City—	.....	.....	.....	.....
Prague.	Nov. 19-25.....	1	.....	.....
Province—	.....	.....	.....	.....
Bohemia.	Nov. 1-30.....	1	.....	.....
Ruthenia.	Oct. 1-Dec. 31.....	25	.....	.....
Slovakia.	Nov. 1-30.....	2	.....	.....
Danzig (Free City).	Jan. 7-Feb. 24.....	2	.....	.....
Egypt:	.....	.....	.....	Including one from Poland.
Alexandria.	Nov. 19-Dec. 31.....	2	1	.....
Do.	Jan. 22-Mar. 4.....	2	.....	.....
Cairo.	Oct. 1-Dec. 31.....	19	9	.....
Do.	Jan. 1-7.....	3	1	.....
Estonia.	.....	.....	.....	Oct. 1-Dec. 31, 1922: Cases, 6. Recurrent typhus: Cases, 10. Year 1922: Cases, 150; recurrent typhus, 91 cases.
Do.	.....	.....	.....	Jan. 1-31, 1923: Cases, 2. Recurrent typhus, cases, 4.
Libau.	Dec. 24-30.....	1	.....	Year 1922: Cases, 140; recurrent typhus cases, 83.
Narva.	.....	.....	.....	.....

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

Reports Received from December 30, 1922, to April 20, 1923—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Finland.....				Feb. 16-28, 1923: Cases, 6; recurrent typhus, 1.
Germany:				
Berlin.....	Nov. 26-Dec. 2.....	1	1	
Coblenz.....	Dec. 10-16.....	1		
Dresden.....	do.....	1		
Great Britain: -				
Glasgow.....	Jan. 7-Feb. 17.....	4	1	
Greece:				
Corfu Island.....	Feb. 8.....			Present.
Leucadia.....	Jan. 17.....			Do.
Patras.....	Nov. 19-25.....	1	1	
Do.....	Jan. 1-17.....	3	5	
Piræus.....	Feb. 8.....			Do.
Preveza.....	Jan. 17.....			Do.
Saloniki.....	Dec. 18-24.....	3		Among refugees.
Do.....	Jan. 7-Feb. 25.....	79	4	Refugees.
Zante.....	Jan. 17.....			Present.
Guatemala:				
Guatemala City.....	Jan. 1-31.....		1	
Hungary:				
Budapest.....	Jan. 14-Mar. 11.....	15	3	
Ireland:				
Belmullet.....	June 15-Dec. 14.....	20		In county Mayo.
Italy:				
Trieste.....	Feb. 26-Mar. 3.....	1		
Latvia.....				Oct. 1-Dec. 31, 1922: Cases, 74. Recurrent typhus cases, 8.
Mexico:				
Mexico City.....	Nov. 12-Dec. 30.....	90		Including municipalities in Federal District.
Do.....	Dec. 31-Mar. 3.....	112		Do.
San Luis Potosi.....	Jan. 28-Mar. 31.....		3	
Palestine:				
Jaffa.....	Dec. 12-18.....	2		Dec. 5-25, 1922: Cases, 3; in northern section. Feb. 27-Mar. 5, 1923—1 case in northern section.
Do.....	Jan. 16-Feb. 26.....	4		
Jerusalem.....	Dec. 26-Jan. 1.....	1		
Paraguay:				
Asuncion.....	Jan. 1-27.....		1	
Persia:				
Tabriz.....	Dec. 18-31.....		2	
Teheran.....	Sept. 24-Nov. 24.....		3	
Poland.....				Oct. 1-Dec. 23, 1922: Cases, 1,916; deaths, 130. Recurrent typhus: Cases, 2,071; deaths, 56. Jan. 1-21, 1923: Cases, 1,029; deaths, 86. Recurrent typhus: Cases, 386; deaths, 7.
Portugal:				
Oporto.....	Oct. 15-Dec. 2.....	1	1	
Do.....	Mar. 11-17.....	3		
Rumania:				
Bucharest.....				To Jan. 31, 1923: Cases, 96; deaths, 13.
Do.....	Feb. 1-10.....	133		
Chisinau.....	Nov. 1-30.....	5		
Do.....	Jan. 1-Feb. 28.....	110		Recurrent typhus: Cases, 33.
Craiova.....	Feb. 1-10.....	1		
Russia:				
Moscow.....	Jan. 1-31.....	290		July 30-Sept. 23, 1922: Cases, 23,803.
Ukraine.....	Jan.-Sept.....	307,329		Undetermined cases, 38.
Ukraine, Tartar Republic, and Siberia.	June 1-30.....	35,926		Provisional figures.
Do.....	July 1-31.....	17,262		Do.
Do.....	Aug. 1-31.....	6,864		Do.
Do.....	Sept. 1-30.....	2,388		Do.
Siberia:				
Vladivostok.....	Nov. 1-Dec. 31.....	5		Remittent, 1 case; indefinite, 6 cases.
Do.....	Jan. 1-31.....	43		Remittent, 1 case; indefinite, 10.
Spain:				
Barcelona.....	Nov. 30-Dec. 27.....		3	
Do.....	Jan. 11-17.....		1	
Madrid.....	Dec. 1-31.....		1	
Syria:				
Aleppo.....	Dec. 10-16.....	1	1	
Do.....	Jan. 7-Mar. 17.....	75	16	Generally among refugees.
Beirut.....	Oct. 1-22.....	1		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from December 30, 1922, to April 20, 1923—Continued.****TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey:				
Constantinople	Nov. 27-Dec. 2....	3	5	Mar. 6, 1923: Present.
Do.....	Dec. 31-Feb. 17....	70		Oct. 1-Dec. 31, 1922: Colored—cases 3,097; deaths, 296; white—cases, 11; deaths, 2.
Union of South Africa.....				Jan. 1-31, 1923: Total—cases, 597; deaths 66. (Colored—cases 587; deaths, 65; white—cases, 10; 1 death.)
Do.....				Oct. 1-Dec. 31, 1922: Colored—cases, 2,799; deaths, 250; white—cases, 6; deaths, 1.
Cape Province.....				Jan. 1-31, 1923: Colored—cases, 513; deaths, 54; white—6 cases, 1 death.
Do.....				Outbreaks.
Do.....	Dec. 31-Feb. 24....			Oct. 1-Dec. 31, 1922: Colored—cases, 143; deaths, 32; white—cases, 2.
Port Elizabeth.....	Jan. 28-Feb. 3.....	1		Jan. 1-31, 1923: Colored—cases, 19; deaths, 1 white—1 case.
Natal.....				Outbreaks.
Do.....				Oct. 1-Dec. 31, 1922: Colored—cases, 91; deaths, 8; white—cases, 3; deaths, 1.
Do.....	Feb. 4-17.....			Jan. 1-31, 1923: Colored—cases, 37; deaths, 5; white—1 case.
Orange Free State.....				Outbreaks.
Do.....				Oct. 1-Dec. 31, 1922: Colored—cases, 64; deaths, 8.
Do.....	Jan. 7-Feb. 3.....			Jan. 1-31, 1923: Colored—cases, 18; deaths, 6; white—cases, 2.
Transvaal.....				Outbreaks.
Do.....				Oct. 1-Dec. 31, 1922: Colored—cases, 64; deaths, 8.
Do.....	Jan. 14-Feb. 17....			Jan. 1-31, 1923: Colored—cases, 18; deaths, 6; white—cases, 2.
Johannesburg.....	Nov. 1-30.....	3	6	Outbreaks.
Do.....	Jan. 1-31.....	4	2	
Venezuela:				
Maracaibo.....	Jan. 21-27.....		1	
Yugoslavia:				
Bosnia-Herzegovina.....	Aug. 1-31.....	1		Aug. 1-31, 1922: Recurrent typhus fever, cases, 4.
Serbia.....				

YELLOW FEVER.

Brazil:				
Bahia.....	Dec. 31-Mar. 3....	41	11	
Mexico:				
Ciudad Victoria.....	Dec. 17-23.....	1		Reported on bills of health.
Tampico.....	Jan. 15.....	1		
West Africa:				
Gold Coast—				Reported present Dec. 21, 1922.
Saltpond.....				
Nigeria—				Do.
Warrai.....				