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MALARIA CONTROL AT SAVANNAH, GA.

At the request of the city health officer of Savannah, Dr. W. F. Brunner, the United States Public Health Service supervised malaria-control measures conducted at Savannah, Ga., during the summer of 1920. The following summary of operations and results obtained was made from a detailed report prepared by Mr. W. A. Davis, who was in direct charge of the work, and from information concerning malaria prevalence in Savannah previous and subsequent to the antimalaria campaign in 1920, as collected by the city health officer and forwarded to the malaria field headquarters of the United States Public Health Service.

Approximately \$50,000 was expended in and around the city of Savannah during 1920 in malaria-control operations, of which \$30,000 was contributed by the city, \$7,000 by the Seaboard Air Line Railroad, and \$3,000 by the Central of Georgia Railroad. Convict labor employed by Chatham County was estimated at \$10,000.

The abandoned rice fields on the east and west sides of the city and on Hutchinson's Island demanded antimosquito measures of an unusual character, similar to those employed by the Public Health Service in 1918 at and around Wilmington, N. C. Until recently these lowlands were maintained in a state of "dry culture," but within the last few years the dikes, tide gates, and ditches have been neglected, and the fields, lying at an elevation of from 2 to 4 feet below mean high tide, were periodically flooded by the tides. Consequently they were prolific breeding places of *A. quadrimaculatus* and *A. crucians*. The control work included the repair of existing tide gates, the construction of additional gates, and some repairing of dikes, with a view to shutting out the tides. It also included the cleaning of old drainage ditches and the construction of new ditches for the drainage of ponded areas.

Two types of tide gates were employed: (1) The sheet steel canal-lock gate with the shutters opening like a barn door, and (2) the old rice-field gate, in which the shutter is swung from elevated supports.

In addition to this marsh work, many highland ponds were filled or drained, surface ditches were trained, catch basins and fire barrels were oiled or treated with larvicides, fish control was employed wherever possible, and regular inspections of potential mosquito-breeding places were made at necessary intervals. Altogether an area of 25 square miles was under control and a population of 100,000

persons was protected. Nine tide gates were repaired or built, 4.2 miles of new ditches were constructed, and 74.9 miles of existing ditches were cleaned and graded. The total length of ditches oiled during the season amounted to 407 miles, 4,075 gallons of oil being used.

A malaria survey was made in the city of Savannah December 18-23, 1919, by public health nurses, under the direction of the city health officer, for the purpose of determining the malaria prevalence within the city as based on history reports. In this survey different sections of the city were selected. Four hundred and forty-seven families were visited and 1,587 persons interrogated. Of these, 384, or 24 per cent, gave a history of having had malaria within the previous four months, and 55, or 3.5 per cent, had active malaria at the time of the survey. A similar survey was completed on January 20, 1921, in which 3,101 families were visited and 10,313 persons interrogated. This survey showed 456, or 4.4 per cent, with a history of malaria during the previous four months, and 52, or 0.5 per cent, active cases at the time the survey was made. From these surveys it appears that there was approximately five and one-half times as much malaria in Savannah, Ga., in the latter part of 1919, previous to the antimalaria operations, as there was during a similar period in 1920, following these operations.

It was recommended that the city of Savannah set aside \$30,000 for the extension and maintenance of antimalaria work during 1921, and assurance has been given that the city officials will continue this work with an adequate appropriation. The Seaboard Air Line and the Central of Georgia Railroads have also agreed to continue their support, and on this basis the United States Public Health Service will provide advisory supervision of malaria operations in and around Savannah during the summer of 1921.

SPLEEN EXAMINATIONS OF SCHOOL BOYS IN MITCHELL COUNTY, GA.

By M. A. BARBER, Special Expert, and C. P. COOGLE, Acting Assistant Surgeon, United States Public Health Service.

In investigating malaria in Mitchell County, Ga., examinations were made of practically all the school boys in the public schools of Mitchell County, in order to determine what percentage of them showed splenic enlargements, and to what extent this method of examination can be depended upon to reveal the true status of malaria prevalence in a county similar to this. These examinations were made from January 19 to March 14, 1921, the majority of them being made during the month of February.

Examinations.

Method of examination.—Examinations were made of boys only. In some cases the boys were taken into a room by themselves, or the girls requested to leave the room, but it was hardly necessary to separate the boys for examination, since there was practically no exposure of the body. No nurse was employed. One examiner and an assistant to take down names, ages, and other data were all that was necessary. The method of palpation employed in most cases was that used by Ross. (Ross, Ronald, Christophers, S. R., Perry, F. L., Spleen Rate London School Children: Ind. Jour. Med. Res., 1914, vol. 1, p. 385.) The child was made to stand, to lean forward to the right of the examiner, or over the examiner's right knee, and at the same time to look upward. In this manner sufficient abdominal relaxation is attained so that the examiner's right hand is easily passed under the left costal arch. As a control on this method, a second method was used in some of the schools first examined. The child was made to lie on his back on a bench with knees up and head on a small pillow. The palpation was made with the tips of the fingers at the expiration of a deep breath. In both methods the children were directed to relax the abdomen as much as possible, and in both methods sufficient clothing was loosened to allow the hand to come into contact with the skin. In some of the earlier examinations results were checked by two observers and by both methods. The results so obtained by both methods of examination practically agreed. It is inadvisable, of course, to examine children soon after a meal.

Time required for examinations.—In one school 181 boys were examined in about three hours. On another day five different schools were visited and 125 children were examined. In both cases the work was done by one examiner (C. P. C.) with an assistant to take notes. Time can be saved by having the teacher or an older pupil prepare the clothing of the boys. Ross (Ross, Ronald: Prevention of Malaria, New York, 1910, p. 220) states that it is possible to examine 100 children in one hour.

Attitude of teachers and parents.—Examinations were arranged through the county superintendent of schools, and the schools were notified by letter that an examination would be made. In the larger schools the time of examination was arranged with the superintendent of schools or the principal, but in many of the smaller country schools no definite date was arranged for, and the examination was done when most convenient for the examiner to call. Teachers gave the heartiest cooperation, and not one objection came to the examiners from any parent, either on account of blood or spleen examinations.

Results.

In all, 1,261 boys were examined, with a positive spleen rate of 2.1 per cent; 865 white boys gave a positive rate of 2 per cent, and 396 colored a rate of 2.5 per cent. All positives occurred in ages 5 to 14, inclusive. A total of 1,116 boys of these ages gave 27, or 2.4 per cent positive. The positive spleens were, in practically all cases, just palpable, though a few were enlarged one or two fingers' breadth. Estimating that the number examined comprised about one-third of all children of both sexes of these ages living in the county, the probable error by the Poisson-Pearson formula would be only about 1 per cent. Details as to incidence of positives by ages and schools are given in Tables II and III.

Blood examinations.—In three schools (Table I) the spleen examinations were checked by blood examinations for malaria parasites. Blood of both boys and girls was examined; therefore the parasite and spleen ratios are not exactly comparable. However, since of 70 boys and 58 girls examined for malaria parasites the positive percentages were 5.6 and 5.1, respectively, the error due to the inclusion of the girls must be small.

TABLE I.—Comparison of spleen and parasite rates of certain schools.

School.	Color.	Spleen rate.			Malaria parasiterate.		
		Number examined, boys.	Number positive.	Percent positive.	Number examined, boys and girls.	Number positive.	Percent positive.
Clayton.....	C	19	1	5.2	22	2	9.1
Lester.....	W	25	1	4.0	46	1	2.2
Pebble City.....	W	36	2	5.6	69	4	6.7
Total.....		80	4	5.0	128	7	5.5

Summary of Results and Discussion.

It is observed that the total spleen rate, 2.1 per cent, is low,¹ and that the parasite rate of the three schools examined is also low, but, in the aggregate, is comparable with the spleen rate of the same schools. It is to be emphasized, however, that these examinations were made at a time when these rates would be expected to be at their minimum; that is, shortly before the malarial season, or at all events, in most cases before the spring rise in the malaria case rate. One of the chief objects of the spleen examination was to ascertain the minimum rate as a basis for comparison with the rate occurring at the height of the malarial season. (*Vide*, Ross, Ronald: *Prevention of Malaria*, New York, 1910, p. 318.)

¹ Ross, Christophers, and Ferry (*loc. cit.*) found a spleen rate of approximately 1 per cent in 500 London school children, 3 to 10 years of age.

It is to be remembered also that all of these schools examined are situated in a region where quinine treatment and quinine prophylaxis were conducted last summer. In the Branchville, Mount Zion, and Pebble City neighborhoods, for instance, between 40 and 50 per cent of the children had chills last summer, and 80 to 90 per cent of all children of these three neighborhoods took quinine. It will be observed in Table II that no positive spleens were found in the Mount Zion (3 examined) and the Branchville (31 examined) schools, and only 2 in 36 Pebble City boys.

The low spleen rate observed in this comparatively malarious region in winter would indicate that there is at that season no important cause of splenomegaly other than malaria. Should a much higher rate be observed during the malaria season, it is probable that such rate would be due to malaria.

In sum, the chief value of this winter spleen examination is to obtain a basis for the comparison of summer rates; and it seems probable that where a single examination is to be taken as an index of the amount of malaria in a region, that examination should be made at the height of the malaria season.

TABLE II.—*Spleen examination of Mitchell County boys by schools.*

School.	Color.	Date visited.	Number of boys examined.	Number of enlarged spleens found.
Camilla.....	C.	Jan. 19	77	2
Do.....	W.	Feb. 7	185	2
Bennet.....	C.	Jan. 25	14	1
Hall Church.....	C.	Feb. 2	25	0
Branchville.....	W.	do.....	18	0
Do.....	C.	do.....	13	0
Friendship.....	C.	Feb. 4	17	0
Mount Zion.....	W.	do.....	3	0
Habakkuk.....	C.	do.....	13	0
Sales City.....	W.	Feb. 14	81	0
Oak Grove.....	C.	do.....	27	1
Hopeful.....	W.	do.....	46	0
Clayton.....	C.	do.....	19	1
St. Johns.....	C.	Feb. 15	11	1
Bennett Grove.....	C.	do.....	8	0
Live Oak.....	W.	Feb. 16	8	0
Zion Grove.....	C.	do.....	37	2
Bechany.....	W.	Feb. 21	12	1
Mount Olive.....	W.	do.....	19	2
Bethel.....	C.	Feb. 22	7	0
Adama.....	W.	Feb. 23	9	0
Rose Academy.....	C.	do.....	74	1
Lester.....	W.	Feb. 24	25	1
Hicksville.....	C.	do.....	25	3
Flint.....	W.	do.....	23	2
Vacouton.....	W.	do.....	23	0
Do.....	C.	do.....	29	0
Cotton.....	W.	Feb. 25	35	1
Harmony.....	W.	Feb. 26	32	0
Laney.....	W.	Feb. 25	28	0
Pine Cliff.....	W.	do.....	9	0
Pelham.....	W.	Feb. 28	181	2
Pebble City.....	W.	Mar. 3	35	2
Greenough.....	W.	do.....	22	0
Pleasant Hill.....	W.	do.....	21	1
Pleasant View.....	W.	Mar. 14	5	0
Lake Pleasant.....	W.	do.....	17	0
Hinsonton.....	W.	do.....	26	1
Total.....			1,261	127

1 2.1 per cent.

Total white, 865; 17, or 2 per cent positive.
Total colored, 396; 10, or 2.5 per cent, positive.

TABLE III.—Spleen examination of Mitchell County boys by age groups.

Age (years).	Number examined.	Enlarged spleens found.			Age (years).	Number examined.	Enlarged spleens found.		
		Number.	White boys.	Colored boys.			Number.	White boys.	Colored boys.
4.....	2	0	0	0	15.....	64	0	0	0
5.....	11	1	1	0	16.....	42	0	0	0
6.....	128	2	0	2	17.....	22	0	0	0
7.....	108	4	1	3	18.....	9	0	0	0
8.....	130	6	5	1	19.....	3	0	0	0
9.....	147	3	1	2	20.....	1	0	0	0
10.....	136	2	1	1	21.....	2	0	0	0
11.....	139	0	0	0					
12.....	121	1	1	0					
13.....	109	6	5	1					
14.....	87	2	2	0					
					Total, all ages.....	1,261	27	17	10

MODERN STEAM LAUNDRY PROCESSES AS A MEANS OF DESTROYING VERMIN.

By W. D. PIERCE, Ph. D., and R. H. HUTCHISON, M. S., Bureau of Entomology, Department of Agriculture; and A. MOSCOWITZ, B. Sc., Second Lieutenant, Q. M. C., U. S. A.

With the establishment of modern steam laundries at cantonments in this country, and of mobile units for overseas service, the question arose as to their usefulness in destroying body lice in clothing. The laundries branch, salvage division, of the quartermasters' corps, in cooperation with the Bureau of Entomology of the United States Department of Agriculture, took up the study of this question, and the work was done by the authors of this article.¹

The principal problem was to determine whether woollens could be so treated in modern steam laundries as to insure complete destruction of body lice and yet produce no shrinkage or injury to the wool. The body or clothing louse, *Pediculus humanus*, var. *corporis*, was the only species dealt with. The insects used in the experiments were, for the most part, reared material of known age and condition. Both adults and the nits or eggs were obtained from lice reared in wristlets. The wristlet used was a slight modification of Nuttall's wristlet. It consisted of a pill box in which holes had been punched in both top and bottom. Over these openings was pasted a fine grade of chiffon. The boxes were held in place on the arm by elastic bands. Each box contained from 20 to 50 lice, with a bit of flannel cloth to which they could cling and to which they attached their eggs. Every second day the lice were transferred to a clean piece of cloth and returned to the wristlet. The piece of cloth, with attached eggs laid during the preceding 48 hours, was put into a new pill box of the same type. The eggs were counted, the boxes were numbered, and exact records were kept of each lot. These boxes were kept in an electrically heated incubator, at a temperature of about 30° C. and

¹ The final report was published in full in the *National Laundry Journal* of Chicago, Jan. 1, 1919, vol. 81, No. 1.

at rather high humidity. When these eggs were subjected to tests they were removed from the boxes and put into the pockets of woolen shirts, or sewed along the seams or under the armhole of a coat, in order to simulate natural infestation and to make the killing requirements as severe as possible. After the tests they were returned to the pill boxes and the incubator and kept under daily observation until all hatching had ceased. Check lots of eggs were kept under the same incubator conditions in all cases.

Material for test on the adult stages was obtained partly from naturally infested garments and partly from material which had been reared in pill boxes by feeding twice daily.

The cleansing processes as used in Army steam laundries may be divided into four main divisions, (1) washing, (2) extracting, (3) drying, and (4) finishing. Inasmuch as it sometimes happened that only a part of the necessary machinery was available, an endeavor was made to find a general washing formula in which each separate step would be effective, thus rendering it certain that the desired results would be obtained even if a drying tumbler were not available or if flat-work ironers or steam presses were not used.

Washing Processes.

Woolens generally have been washed in luke warm water at "hand heat." Experiments proved that this temperature was too low to be effective in the destruction of lice. Further studies were therefore made to determine the effects of higher temperatures in the washer upon vermin and also upon the fabrics, and a study was made of the relation of the higher temperatures, of soap, and of motion, to shrinkage. The series of experiments included tests with wash-water at temperatures of 75°, 115°, 125°, and 131° F. Tests with temperatures of 75° and 115° were found to be ineffective. Two experiments were conducted with water heated to 125° F.

In each case an O. D. wool shirt, containing eggs in the pockets, was washed with a normal load as follows:

Fifteen minutes, heavy suds, 125° F.

Three 3-minute rinses, 125° F.

Following extraction, the specimens were removed and kept for observation. In the first experiment the test lots of eggs failed to hatch; but the results were considered inconclusive because little or no hatching was obtained from the check lots of untreated eggs. In the second experiment, test lots of eggs gave from 20.9 to 65.2 per cent hatching, as compared with a hatching record of from 54.7 to 91.1 per cent in the check lots. Washing alone at 125° F. for this length of time is thus shown to be unreliable.

In experiments conducted with water heated to 131° F., entirely satisfactory results were obtained in every case.

In one of these experiments, conducted at a commercial laundry, two O. D. wool shirts were placed in the washer with a load of 11 blankets. One of the garments contained two lots of eggs, four to eight days old, a total of 460 eggs. The second garment contained a total of 338 eggs, a few hours to two days old. These were subjected to the following treatment:

Washed 15 minutes in light suds; the temperature of the water at the beginning was 132° F.; at the end, 126° F.

Rinsed in three 3-minute rinses; the temperature of the water at the beginning was 133° F.; at the end, 128° F.

After extraction for 20 minutes the eggs were removed and returned to pill boxes and kept in the incubator as usual. The destruction of the eggs in all these lots was complete; whereas untreated checks gave over 60 per cent of hatching.

The effect of this temperature on the shrinkage of woollens was found to be negligible when a light load of clothing was used. This point is brought out by the following experiments:

An army wool undershirt was subjected to the following washing formula, with a heavy load of clothing:

- 15 minutes, light suds, lukewarm water.
- 3 minutes, rinse, lukewarm water.
- 3 minutes, rinse, lukewarm water.
- 3 minutes, rinse, lukewarm water.
- 3 minutes, rinse, lukewarm water.

Measurements of the neck, across chest, across back, and length of back were made before the wash and after. The average shrinkage was 5.97 per cent.

In another test a wool undershirt was subjected to the following wash formula, with a very light load of clothing:

- 15 minutes, heavy suds, 131° F.
- 3 minutes, rinse, 131° F.
- 3 minutes, rinse, 131° F.
- 3 minutes, rinse, 131° F.

The measurements indicated an average stretch of 6.06 per cent.

These tests point to the fact that shrinkage is not caused so much by high temperature of water as by pounding, caused by overload of wheel. Therefore the temperature of 131° F. is permissible for washing woollens.

The use of soap is also found to have a very important bearing on the amount of shrinkage. Soap suds act as a cushion and decrease the pounding of the clothes, which reduces shrinkage. Actual tests in a wash wheel prove this fact. Clothes were washed with low suds and with heavy suds, and measurements of an undershirt were made in each case with the following results:

Low suds, average shrinkage, 2.55 per cent.

Heavy suds, average shrinkage, 0.80 per cent.

The laundry wash wheel may be used for other purposes than merely that of washing. Thus, when clothing is suspected of being

infected with resistant spore-bearing bacteria, it is possible to use the wash wheel for the submersion of the clothing at even higher temperatures. Tests were conducted with water at 165° F. in the wash wheel. A woolen shirt containing louse-infected cloth in the pockets was placed in the water at this temperature, and the doors were closed. The wheel was not revolved, except that every 5 minutes a few revolutions were given. At the end of 20 minutes the shirt was removed. The eggs were kept under observation for many days, but failed to show any signs of development. The effect on the shrinkage of woollens, of soaking at this temperature, was also found to be negligible; and this is explained by the fact that the wheel was not revolved, with the result that there was no pounding of the clothes.

All wash wheels are equipped with steam pipes, and it is possible to use them for live steam sterilization on the same principle as that of the Serbian barrel and according to the methods carried out by Hunter and others in the Balkans and Egypt. It has been claimed by all writers that live flowing steam is less injurious to woollens than is steam under pressure or in a closed cylinder.

Several experiments were carried out with the laundry wash wheel. A shirt with infested cloth in the pockets was placed in the center of a mass of clothing in the wheel. The doors were then closed and a current of steam was turned on, the wash wheel remaining stationary. The water of condensation was let out at about 5-minute intervals, but otherwise the outlet was closed so that steam escaped only through the cracks and joints of the wheel. In all cases where the steam was allowed to flow through for a period of 15 minutes, the destruction of the eggs was complete. Exposure to current steam for 10 minutes was found effective in one case, but not in another. The results indicated that 15-minute exposure to current steam is the minimum which may be counted upon to produce satisfactory results; but even in this case, precaution must be taken to prevent overloading of the wheel and the consequent difficulty in securing thorough penetration of the steam. The shrinkage effect of live-steam treatment also proved to be negligible.

Two Government-issue winter undershirts, a pair of wool breeches, a wool blouse, and a wool blanket were measured and subjected to the following treatment:

The garments were placed in a washer, 36 by 36 inches, together with nine wool blankets. A current of steam was passed into the wheel for 15 minutes. Measurements were taken, and then the clothing was returned to the wheel for washing, as follows:

15 minutes, suds, water at 125° F.

3 minutes, rinse, water at 125° F.

3 minutes, rinse, water at 125° F.

Extracted 10 minutes. Tumbled for 15 minutes. Temperature at exhaust, 130° F. to 150° F. Pressed on a steam press.

	Effect of steam treatment.	Effect of pressing.
Undershirt.....	0.18 per cent stretch....	0.55 per cent stretch
Undershirt.....	0.08 per cent stretch....	2.35 per cent stretch
Wool breeches.....	0.0 per cent stretch....	0.7 per cent stretch
Wool coat.....	0.0 per cent stretch....	1.11 per cent stretch

The live steam treatment did not shrink the clothing. After the steam treatment the undershirts and coat were moist, but the breeches were dry.

The coat and breeches were not pressed properly, and so the final measurements are not absolutely correct, but they give an indication of the results of the test.

In another test, wool blankets were subjected to steam treatment in a wash wheel for 15 minutes, without revolving the wheel. The average shrinkage of two blankets was 0.14 per cent. In still another test the above process was repeated; but in this case the wheel was revolved during the whole 15 minutes, with the following results:

Blanket A, 0.24 per cent shrinkage.

Blanket B, 1.57 per cent shrinkage.

Evidently the continued motion of the wheel tended to increase the shrinkage.

Summarizing the experiments with the wash wheel it was shown that all lice and eggs can be killed in the laundry wash wheel alone by washing at a temperature of 131° F. for 15 minutes, and rinsing three times at the same temperature. When there is any fear of infecting the wash wheels from hospital linens, etc., the clothes can be soaked at 165° F. for 15 minutes, without motion, except to revolve the wheel two or three times every 5 minutes; or a current of live steam can be passed through the clothes for 15 minutes before the washing. It is not believed, however, that either of these processes is necessary if a hot tumbler is used at the end of the cleansing process.

EXTRACTION.

The laundry extractor has no significance whatever in the disinfecting processes. It merely serves to draw off all superfluous water before drying.

The Drying Process.

Drying is done in hot-air tumblers, which consist of large metal chambers with heated coils and inner revolving cages. The moist hot air is driven out of the tumbler by a fan. The temperature ordinarily obtained in a drying tumbler makes this step in the process effective in destroying both the active stages and the eggs of body lice.

That is to say, when clothes are dried therein for 15 minutes or more, at a temperature of 140° F. and higher, there is absolute assurance that all stages of the louse will be killed. It is important to insist on a minimum of 140° F. at the beginning of the drying process, the temperature being taken at the exhaust. The drying machine, therefore, plays an important part in the disinfecting process in the laundry. It was shown, however, that woolen goods must enter the tumbler in the wet state and must be removed while still somewhat moist in order to insure no shrinkage.

A number of experiments were conducted bearing on this point, and the results indicated that woolens could be partially dried in a tumbler without shrinkage to any great extent. The final drying would have to be done gradually, with the garment well stretched, as, for instance, in a flat-work ironer. This method of finishing was actually employed. The woolens were in the hot-air tumbler (187° F. at the point of discharge) for 15 minutes and then passed through the flat-work ironer, with the following results:

O. D. shirt, 2.98 per cent stretch.

Undershirt, part wool, army issue, 3.25 per cent stretch.

Sock, part wool, army issue, 12.50 per cent stretch.

Undershirt, fleece lined, 2.10 per cent stretch.

With the usual washing formulas, in which the clothes are washed at any temperature below 131° F., with the washing machine in motion, and then continuing through the rinses and the extractor, ending with the 15-minute tumbling in the dry tumbler, there was no shrinkage, but there was stretch. It is therefore obvious that the dry tumbler did not shrink the woolens, although it reached a temperature of 187° F. at the point of discharge.

It was likewise shown that even when the clothes were soaked at 165° F., without motion, then washed, extracted, and partially dried in the tumbler, there was no shrinkage.

An experiment was conducted by placing dry clothing in the tumbler and closing it up, but not revolving it; thus duplicating conditions of the hot-oven process of delousing. The temperature taken inside the tumbler at the beginning of the experiment was 145° F., and at the end of the run it was 150° F.; at the beginning the temperature reading at the exhaust was 143° F., and at the end, 149° F.

An O. D. wool shirt with specimens of lice-infested cloth in the pockets was exposed to those temperatures for 15 minutes. The following results were obtained:

Treated, 39 eggs, 1 to 3 days old, 1 hatched (2.5 per cent).

Check, 54 eggs, 1 to 3 days old, 44 hatched (81.5 per cent).

Treated, 54 eggs, 5 to 7 days old, none hatched (0 per cent).

Check, 100 eggs, 5 to 7 days old, 52 hatched (52 per cent).

This shirt was the only article in the tumbler at the time. Tests made of the shirt before and after heating showed an average shrinkage of 1.5 per cent.

It therefore appears that the 15-minute exposure to the dry air temperatures of this experiment was not completely effective, and furthermore it causes shrinkage of woolens.

SUMMARY OF EXPERIMENTS WITH DRYING TUMBLER.

It is concluded from these experiments with the drying tumbler that it is an effective and noninjurious part of the process of cleaning woolens and of disinfecting and of killing insects, when the clothing is treated wet, but that it is not desirable to use the drying tumbler as a preliminary measure in the disinfection and disinsection process, or as the only measure, because of the effect of dry heat on the shrinkage of woolens.

Finishing Processes.

Observations were made on the ironing processes at a commercial establishment where both hand gas irons and the steam press are used. Figures are given on the time consumed in the pressing of garments by each method. Similar observations in a cantonment laundry showed that the average time required to press one garment was 10 minutes. Piecework in the commercial establishment was somewhat more rapid.

Pieces of cloth with eggs attached were sewed along the seams of coats below the armhole or placed inside the pockets, and the garment was handed over to an operator who did not know what was in the coat nor the object of the test.

HAND PRESSING OF O. D. COATS.

Hand pressed, 33 eggs, 1 to 3 days old, 0 hatched (0 per cent).

Hand pressed, 68 eggs, 1 to 3 days old, 0 hatched (0 per cent).

Check, 54 eggs, 1 to 3 days old, 44 hatched (81.5 per cent).

STEAM PRESSING OF O. D. WOOL GARMENTS.

Coat, steam pressed, 51 eggs, 1 to 3 days old, 1 hatched (2 per cent).

Check, 54 eggs, 1 to 3 days old, 44 hatched (81.5 per cent).

Coat, steam pressed, 155 eggs, 0 to 2 days old, 0 hatched.

Trousers, steam pressed, 235 eggs, 0 to 2 days old, 0 hatched.

Check, 125 eggs, 0 to 2 days old, over 60 per cent hatched.

These experiments indicate that ordinary ironing and the work on the steam press are effective when the work is done carefully.

Complete Washing Formula.

Complete washing formulas were studied, with a view to determining their effectiveness on the eggs of lice. Two experiments were conducted in which shirts containing eggs and lice were placed in the wash wheel with the usual load of clothing and washed according to the following formula:

Fifteen minutes, heavy suds, water at 125° F.

Three 3-minute rinses, water at 125° F.

Extracted 20 minutes.

Tumbled, 15 minutes, 187° F. at point of discharge.

All eggs and lice were found to be dead. The experiments were repeated twice, at a temperature of 131° F. In these cases all stages of lice were destroyed.

Washing of Cotton Goods.

Since the above processes destroy lice and eggs in woolens, it is therefore safe to assume that it destroys lice in flat work, khaki, and cotton underwear. In these classes of work higher temperatures of the water and longer wash formulæ are employed than those mentioned above.

Recommendations.

In view of the foregoing tests there is proposed as a measure in disinsection of woolens a process which not only will disinsect, but also will cleanse the garment and return it to the owner in good form, without undue shrinkage. This process consists of the following measures:

1a. In the washer run a current of live steam for 15 minutes, revolving the cylinder every 5 minutes, and discharging water of condensation every 5 minutes. Remove the garments and shake until almost dry. This requires only a few shakes.

1b. Submerge in water at 165° F. for 20 minutes, without motion, except a few revolutions every 5 minutes.

2. Wash 15 minutes at 131° F. in heavy suds and light load.

3. Rinse three times, 3 minutes each, at 131° F.

4. Extract.

5. Run in tumbler for 15 minutes, at a minimum of 140° F.

Live steam (1a) or very hot soaking (1b) are advised only in cases where there is no heated tumbler (5) available, or where the garments are suspected of being contaminated with very resistant spore-bearing bacteria.

In other words, the usual laundry methods for the disinfection and disinsection are recommended because of their added value of cleansing.

There can be no doubt that the ordinary processes of the laundry will kill all lice and their eggs, and probably all insect life.

It is proved that woolens can be treated at a temperature which will kill lice and bacteria, without undue shrinkage—that is 131° F. Washing in heavy suds, with motion; 165° F. soaking, without motion; live steam, without motion, and occasionally removing the water of condensation; or dry tumbling of wet garments; these do not cause undue shrinkage of woolens.

DEATHS DURING WEEK ENDED MAR. 26, 1921.

Summary of information received by telegraph from industrial insurance companies for week ended Mar. 26, 1921, and corresponding week, 1920. (From the "Weekly Health Index," Mar. 29, 1921, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Mar. 26, 1921.	Corresponding week, 1920.
Policies in force.....	46, 386, 036	42, 645, 355
Number of death claims.....	8, 372	11, 555
Death claims per 1,000 policies in force.....	9.4	14.1

Deaths from all causes in certain large cities of the United States during the week ended Mar. 26, 1921, infant mortality, annual death rate, and comparison with corresponding week of preceding years. (From the "Weekly Health Index," Mar. 29, 1921, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population, July 1, 1921.	Week ended Mar. 26, 1921.		Average annual death rate per 1,000. ²	Deaths under 1 year.		Infant mortality rate week ended Mar. 26, 1921. ³
		Total deaths.	Death rate. ¹		Week ended Mar. 26, 1921.	Previous year or years. ²	
Akron, Ohio.....	208,435	40	10.0	⁵ 12.1	8	⁵ 5	77
Albany, N. Y.....	115,071	38	17.2	C 21.0	4	C 6	90
Atlanta, Ga.....	207,473	59	14.8	C 13.7	9	C 2	.....
Baltimore, Md.....	751,537	267	18.5	A 19.8	44	A 30	124
Birmingham, Ala.....	186,133	49	13.7	A 18.8	6	A 7	.....
Boston, Mass.....	757,634	211	14.5	A 19.1	39	A 36	105
Bridgeport, Conn.....	149,967	26	9.0	A 18.5	6	A 8	76
Buffalo, N. Y.....	519,608	129	12.9	C 15.2	30	C 22	116
Cambridge, Mass.....	110,444	25	11.8	A 16.0	3	A 3	54
Camden, N. J.....	119,672	35	15.3	.....	8	.....	.....
Chicago, Ill.....	2,780,655	655	12.3	A 17.1	125	A 155	.....
Cincinnati, Ohio.....	402,418	91	11.8	C 20.9	7	C 12	46
Cleveland, Ohio.....	831,133	185	11.7	C 14.4	25	C 21	67
Columbus, Ohio.....	245,358	62	13.2	C 18.0	10	C 13	116
Dallas, Tex.....	165,282	29	9.1	A 13.5	4	C 2	.....
Dayton, Ohio.....	158,119	28	9.2	C 12.7	4	C 6	66
Denver, Colo.....	263,152	88	17.4	A 15.7	10	.....	.....
Detroit, Mich.....	1,070,450	219	10.7	.....	54	.....	102
Fall River, Mass.....	120,693	40	17.3	C 23.4	13	C 12	195
Grand Rapids, Mich.....	141,197	39	11.1	C 15.9	4	C 3	68
Indianapolis, Ind.....	325,215	72	11.5	C 15.5	10	C 15	78
Jersey City, N. J.....	302,788	95	16.4	C 24.4	19	C 19	.....
Kansas City, Kans.....	103,908	25	12.5	.....	4	.....	95
Kansas City, Mo.....	336,157	71	11.0	C 24.7	10	C 8	.....
Los Angeles, Calif.....	611,633	138	11.8	A 14.6	12	A 10	57
Louisville, Ky.....	236,083	62	13.7	C 21.9	6	C 5	69
Lowell, Mass.....	113,757	46	21.1	A 18.6	10	A 7	161
Milwaukee, Wis.....	468,386	93	10.4	A 15.1	19	A 31	92
Minneapolis, Minn.....	392,815	98	13.0	C 13.3	20	C 17	114
Nashville, Tenn.....	119,533	38	16.6	C 25.0	5	C 5	.....
New Bedford, Mass.....	125,012	34	14.2	A 13.0	10	A 10	154
New Haven, Conn.....	167,007	38	11.9	C 18.5	3	C 8	36
New Orleans, La.....	394,657	122	16.1	A 22.0	17	A 13	.....
New York, N. Y.....	5,751,867	1,398	12.7	C 21.3	171	C 287	67
Newark, N. J.....	424,885	119	14.6	C 22.6	11	C 29	.....
Norfolk, Va.....	121,260	23	9.9	.....	3	.....	53
Oakland, Calif.....	226,472	33	7.6	A 12.6	1	A 4	13
Omaha, Nebr.....	197,065	49	13.0	.....	5	.....	.....
Paterson, N. J.....	137,463	38	14.4	.....	8	.....	.....
Philadelphia, Pa.....	1,868,212	525	14.7	⁵ 17.9	82	⁵ 80	99
Pittsburgh, Pa.....	596,413	194	17.0	C 20.5	25	C 39	89
Portland, Oreg.....	264,859	61	12.0	C 12.6	4	C 6	40
Providence, R. I.....	239,645	79	17.2	C 19.3	13	C 19	.....
Richmond, Va.....	175,633	50	14.8	C 16.5	8	C 6	97
Rochester, N. Y.....	305,229	87	14.9	C 14.5	18	C 17	140
St. Louis, Mo.....	786,164	186	12.3	C 17.3	16	C 27	.....
St. Paul, Minn.....	237,781	73	16.0	C 13.7	9	C 7	91
Salt Lake City, Utah.....	121,595	25	10.7	A 12.3	3	.....	46
San Francisco, Calif.....	520,546	146	14.6	C 18.5	11	C 7	64
Seattle, Wash.....	327,227	63	10.0	A 10.1	9	A 6	75
Spokane, Wash.....	104,442	22	11.0	C 14.5	0	C 3	0
Springfield, Mass.....	135,877	41	15.7	.....	7	.....	106
Syracuse, N. Y.....	177,265	53	15.6	C 14.4	9	C 9	108
Toledo, Ohio.....	253,606	59	12.1	A 16.0	7	A 9	71
Trenton, N. J.....	122,760	32	13.6	A 21.6	7	A 9	.....
Washington, D. C.....	454,026	125	14.4	A 18.7	17	A 12	99
Wilmington, Del.....	113,406	23	10.6	C 28.8	4	.....	.....
Worcester, Mass.....	184,972	65	18.3	C 14.3	11	C 9	118
Yonkers, N. Y.....	103,324	17	8.6	A 12.1	3	A 4	68
Youngstown, Ohio.....	139,432	34	12.7	.....	5	.....	63

¹ Annual rate per 1,000 population.

² "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.

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

⁴ Enumerated population Jan. 1, 1921.

⁵ Data based on statistics of 1915, 1916, and 1917.

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Apr. 2, 1921.

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

ALABAMA.		CALIFORNIA—continued.	
	Cases.	Smallpox:	Cases.
Cerebrospinal meningitis.....	1	Fresno County.....	11
Chicken pox.....	43	Oakland.....	9
Diphtheria.....	9	San Francisco.....	15
Hookworm.....	65	Scattering.....	68
Measles.....	15	Typhoid fever.....	17
Mumps.....	42		
Pellagra.....	1		
Pneumonia.....	5		
Smallpox:			
Jefferson County.....	35		
Scattering.....	41		
Tuberculosis.....	18		
Typhoid fever.....	6		
Whooping cough.....	11		
ARKANSAS.		CONNECTICUT.	
Cerebrospinal meningitis.....	1	Cerebrospinal meningitis.....	1
Chicken pox.....	36	Chicken pox.....	58
Diphtheria.....	7	Diphtheria:	
Hookworm.....	1	Hartford.....	8
Influenza.....	6	Scattering.....	43
Malaria.....	17	German measles.....	3
Measles.....	107	Influenza.....	15
Pellagra.....	4	Lethargic encephalitis.....	1
Pneumonia.....	2	Measles:	
Polio-myelitis.....	1	Greenwich.....	17
Scarlet fever.....	8	Hartford.....	22
Smallpox.....	20	New Britain.....	39
Tuberculosis.....	18	New Hartford.....	33
Typhoid fever.....	10	Norfolk.....	10
Whooping cough.....	26	Washington.....	34
CALIFORNIA.		Waterbury.....	9
Cerebrospinal meningitis.....	3	Scattering.....	30
Influenza.....	114	Mumps.....	71
Lethargic encephalitis:		Ophthalmia neonatorum.....	1
Los Angeles.....	1	Pneumonia (lobar).....	31
Marysville.....	1	Scarlet fever:	
Pasadena.....	1	Bridgeport.....	22
		New Haven.....	31
		Scattering.....	52
		Tuberculosis (all forms).....	43
		Typhoid fever.....	1
		Whooping cough.....	46
		DELAWARE.	
		Chicken pox.....	3
		Diphtheria.....	5
		Influenza.....	2

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Apr. 2, 1921—Continued.

DELAWARE—continued.		ILLINOIS—continued.	
	Cases.		Cases.
Mumps.....	5	Smallpox:	
Pneumonia.....	2	Hoopeston.....	12
Polioomyelitis—Smyrna.....	1	Schuyler County—Rushville Township....	8
Scabies.....	1	Rockford.....	13
Scarlet fever.....	8	Royalton.....	18
Tuberculosis.....	7	Scattering.....	131
Whooping cough.....	13	Typhoid fever.....	12
FLORIDA.		INDIANA.	
Cerebrospinal meningitis.....	1	Diphtheria.....	54
Diphtheria.....	7	Rabies in animals—Marion County.....	1
Influenza.....	8	Scarlet fever.....	203
Malaria.....	18	Smallpox.....	245
Pneumonia.....	7	Typhoid fever.....	1
Polioomyelitis.....	1	IOWA.	
Scarlet fever.....	5	Diphtheria.....	44
Smallpox.....	79	Polioomyelitis—Middletown.....	1
Typhoid fever.....	16	Scarlet fever.....	122
GEORGIA.		Smallpox:	
Chicken pox.....	14	Bellevue.....	10
Diphtheria.....	5	Idagrove.....	8
Dysentery (bacillary).....	3	Oelwein.....	63
Dysentery (amebic).....	2	Stuart.....	19
Hookworm.....	17	Scattering.....	136
Influenza.....	10	KANSAS.	
Lethargic encephalitis.....	2	Cerebrospinal meningitis.....	1
Malaria.....	38	Chicken pox.....	119
Measles.....	80	Diphtheria.....	59
Mumps.....	6	German measles.....	3
Paratyphoid fever.....	1	Influenza.....	15
Pneumonia.....	35	Measles.....	436
Scarlet fever.....	4	Mumps.....	9
Smallpox.....	61	Pneumonia.....	23
Tetanus.....	1	Scarlet fever.....	97
Tuberculosis (pulmonary).....	8	Smallpox.....	142
Typhoid fever.....	12	Tuberculosis.....	64
Whooping cough.....	8	Typhoid fever.....	1
ILLINOIS.		Whooping cough.....	36
Cerebrospinal meningitis:		LOUISIANA.	
Chicago.....	3	Diphtheria.....	4
Gillespie.....	1	Polioomyelitis.....	1
Diphtheria:		Scarlet fever.....	9
Chicago.....	147	Smallpox.....	38
Scattering.....	80	Typhoid fever.....	4
Influenza.....	12	MAINE.	
Lethargic encephalitis:		Chicken pox.....	13
Aurora.....	1	Diphtheria.....	16
Elgin.....	1	Influenza.....	1
Oak Park.....	1	Measles.....	119
Pneumonia.....	202	Mumps.....	3
Polioomyelitis—Chicago.....	1	Pneumonia.....	19
Scarlet fever:		Scarlet fever.....	23
Chicago.....	121	Smallpox.....	6
Kewanee.....	8	Tuberculosis.....	3
Peoria.....	16	Typhoid fever.....	3
Rockford.....	13	Whooping cough.....	33
Scattering.....	135		

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Apr. 2, 1921—Continued.

MARYLAND. ¹		MISSOURI—continued.	
	Cases.		Cases.
Cerebrospinal meningitis.....	1	Measles.....	249
Chicken pox.....	86	Mumps.....	49
Diphtheria.....	33	Ophthalmia neonatorum.....	3
Influenza.....	79	Scarlet fever.....	124
Lethargic encephalitis.....	4	Smallpox.....	171
Measles.....	108	Trachoma.....	3
Mumps.....	55	Tuberculosis.....	43
Ophthalmia neonatorum.....	2	Typhoid fever.....	2
Pneumonia (all forms).....	106	Whooping cough.....	124
Polio-myelitis.....	1		
Scabies.....	2	MONTANA.	
Scarlet fever.....	48	Diphtheria.....	6
Smallpox.....	23	Polio-myelitis—Opheim.....	1
Typhoid fever.....	7	Scarlet fever.....	30
Whooping cough.....	128	Smallpox.....	58
		Typhoid fever.....	3
MASSACHUSETTS.			
Cerebrospinal meningitis.....	4	NEBRASKA.	
Chicken pox.....	279	Cerebrospinal meningitis—Omaha.....	1
Conjunctivitis (suppurative).....	13	Chicken pox.....	44
Diphtheria.....	186	Diphtheria.....	9
German measles.....	13	Lethargic encephalitis—Omaha.....	1
Influenza.....	25	Measles:	
Lethargic encephalitis.....	1	Lincoln.....	22
Malaria.....	2	Scattering.....	6
Measles.....	705	Mumps.....	17
Mumps.....	145	Scarlet fever:	
Ophthalmia neonatorum.....	18	Lincoln.....	11
Pneumonia (lobar).....	146	Omaha.....	9
Polio-myelitis.....	2	Scattering.....	33
Scarlet fever.....	296	Smallpox:	
Smallpox.....	1	Dundy County.....	8
Trachoma.....	2	Omaha.....	11
Tuberculosis (all forms).....	177	Scattering.....	41
Typhoid fever.....	12	Tuberculosis.....	25
Whooping cough.....	175	Whooping cough.....	2
MINNESOTA.		NEW JERSEY.	
Chicken pox.....	18	Cerebrospinal meningitis.....	6
Diphtheria.....	49	Chicken pox.....	215
Influenza.....	6	Diphtheria.....	165
Measles.....	38	Influenza.....	60
Pneumonia.....	3	Malaria.....	1
Scarlet fever.....	140	Measles.....	245
Smallpox.....	302	Pneumonia.....	205
Tuberculosis.....	59	Scarlet fever.....	235
Typhoid fever.....	10	Smallpox:	
Whooping cough.....	11	Bergen County—Unusual prevalence.	
		Hudson County—Unusual prevalence.	
MISSISSIPPI.		Trachoma.....	1
Diphtheria.....	7	Typhoid fever.....	8
Scarlet fever.....	5	Whooping cough.....	256
Smallpox.....	51		
Typhoid fever.....	14		
		NEW MEXICO.	
MISSOURI.		Cerebrospinal meningitis.....	1
Cerebrospinal meningitis.....	3	Chicken pox.....	7
Chicken pox.....	69	Diphtheria.....	35
Diphtheria.....	107	Influenza.....	2
Epidemic sore throat.....	13	Measles.....	170
Influenza.....	8	Mumps.....	3
		Pneumonia.....	12

¹ Week ended Friday.

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Apr. 2, 1921—Continued.

NEW MEXICO—continued.		VERMONT—continued.	
	Cases.		Cases.
Rabies in animals.....	2	Pneumonia.....	2
Scarlet fever.....	5	Scarlet fever.....	17
Septic sore throat.....	7	Smallpox.....	5
Smallpox.....	7	Typhoid fever.....	1
Trachoma.....	12	Whooping cough.....	51
Tuberculosis.....	55		
Whooping cough.....	51	VIRGINIA.....	
		Smallpox—Tazewell County.....	1
NEW YORK.		WASHINGTON.	
(Exclusive of New York City.)		Chicken pox.....	156
Diphtheria.....	218	Diphtheria.....	33
Influenza.....	50	Measles.....	120
Lethargic encephalitis.....	4	Mumps.....	35
Measles.....	987	Pneumonia.....	5
Pneumonia.....	206	Scarlet fever.....	81
Polioomyelitis—North Pelham.....	1	Smallpox.....	231
Scarlet fever.....	250	Tuberculosis.....	2
Smallpox:		Typhoid fever.....	6
Geneva.....	8	Whooping cough.....	42
Phelps.....	9		
Scattering.....	23	WEST VIRGINIA.	
Tetanus.....	2	Diphtheria.....	18
Typhoid fever.....	9	Measles:	
Whooping cough.....	387	Montgomery.....	10
		Scattering.....	27
NORTH CAROLINA.		Scarlet fever.....	15
Cerebrospinal meningitis.....	3	Smallpox.....	16
Chicken pox.....	101	Typhoid fever.....	3
Diphtheria.....	18		
Lethargic encephalitis.....	1	WISCONSIN.	
Measles.....	646	Milwaukee:	
Scarlet fever.....	12	Chicken pox.....	53
Septic sore throat.....	3	Diphtheria.....	35
Smallpox.....	96	German measles.....	1
Typhoid fever.....	4	Lethargic encephalitis.....	1
Whooping cough.....	209	Measles.....	11
		Scarlet fever.....	35
SOUTH DAKOTA.		Smallpox.....	29
Cerebrospinal meningitis.....	1	Tuberculosis.....	22
Chicken pox.....	2	Whooping cough.....	20
Diphtheria.....	3	Scattering:	
Influenza.....	5	Chicken pox.....	139
Measles.....	7	Diphtheria.....	55
Pneumonia.....	8	German measles.....	3
Scarlet fever.....	20	Influenza.....	26
Smallpox.....	47	Lethargic encephalitis—	
		Eau Claire County—Augusta.....	1
VERMONT.		Measles.....	93
Chicken pox.....	56	Polioomyelitis.....	2
Diphtheria.....	4	Scarlet fever.....	148
Influenza.....	2	Smallpox.....	132
Measles.....	114	Tuberculosis.....	19
Mumps.....	19	Typhoid fever.....	5
		Whooping cough.....	73

CURRENT STATE SUMMARIES—Continued.

District of Columbia and Kentucky Reports for Week Ended Mar. 26, 1921.

DISTRICT OF COLUMBIA.

	Cases.		Cases.
Chicken pox.....	47	Smallpox.....	4
Diphtheria.....	14	Tuberculosis.....	23
Measles.....	229	Typhoid fever.....	3
Polio myelitis.....	1	Whooping cough.....	24
Scarlet fever.....	25		

KENTUCKY.

	Cases.		Cases.
Chicken pox.....	15	Scarlet fever:	
Diphtheria:		Jefferson County.....	16
Jefferson County.....	12	Scattering.....	28
Scattering.....	8	Septic sore throat.....	3
German measles.....	3	Smallpox:	
Influenza.....	7	Hopkins County.....	8
Lethargic encephalitis:		Livingston County.....	13
Estill County.....	1	Pike County.....	21
Jefferson County.....	1	Scattering.....	54
Malaria.....	1	Tonsillitis.....	3
Measles:		Trachoma.....	15
Jefferson County.....	20	Tuberculosis.....	19
Scattering.....	34	Typhoid fever.....	13
Mumps.....	18	Whooping cough.....	15
Pneumonia.....	34		

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.	Polio myelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>February, 1921.</i>										
Arkansas.....	3	67	341	150	932	28	2	60	100	31
Hawaii.....	1	12	119		43		2		2	17
North Carolina.....	3	122			2,401		2	70	442	28
Ohio.....	22	951	80	7	1,063	1		1,777	1,186	79
Wyoming.....		13			275			65	67	5

PLAGUE.¹

HUMAN CASES OF PLAGUE REPORTED.

Place.	Period covered.	Cases.	Deaths.	Remarks.
California:	1921.			
San Benito County.....	Feb. 7.....		1	

¹ A summary of the reports received of the occurrence of plague and the finding of plague-infected rodents in the United States during 1920 was published in Public Health Reports, Jan. 7, 1921, p. 15.

PLAGUE—Continued.**PLAGUE-INFECTED RODENTS.**

Place.	Period covered.	Rodents found plague infected.
Florida:	1921.	
Pensacola.....	Jan. 1 to Mar. 9.....	4
	Mar. 10 to Apr. 2.....	0
Louisiana:		
New Orleans.....	Jan. 1 to Feb. 19.....	33
	Feb. 20 to Apr. 2.....	0

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921.**ANTHRAX.**

Place.	Cases.	Deaths.
Delaware:		
Wilmington.....	1	

CEREBROSPINAL MENINGITIS.

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

Place.	Median for previous years.	Week ended Mar. 19, 1921.		Place.	Median for previous years.	Week ended Mar. 19, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Minnesota:			
Los Angeles.....	0	1		Minneapolis.....	0	1	1
Riverside.....	0		1	Missouri:			
San Francisco.....	0	1		St. Louis.....	1	1	1
District of Columbia:				Montana:			
Washington.....	0	1		Butte.....	0		1
Georgia:				New Hampshire:			
Atlanta.....	0		2	Manchester.....	0	1	
Illinois:				New Jersey:			
Chicago.....	3	4	2	Elizabeth.....	0		1
Springfield.....	0	1	1	Newark.....	0	2	
East Chicago.....	0		1	Trenton.....	0		1
Kansas:				New York:			
Coffeyville.....	0	1		Buffalo.....	0		2
Wichita.....	0	1	1	New York.....	5	7	3
Maryland:				Ohio:			
Baltimore.....	1		1	Akron.....	0	2	
Massachusetts:				Pennsylvania:			
Boston.....	2	1		Farrell.....	0	1	
New Bedford.....	0	1		Philadelphia.....	2	1	
Michigan:				Pittston.....	0	1	
Detroit.....	1	3		Wisconsin:			
Ironwood.....	0	1		Milwaukee.....	2	1	

DIPHTHERIA.

See p. 731; also Telegraphic weekly reports from States, p. 719, and Monthly summaries by States, p. 723.

CITY REPORTS FOR WEEK ENDED MAR 19, 1921—Continued.

INFLUENZA.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama:			Minnesota:		
Anniston.....	1		Minneapolis.....	2	5
Birmingham.....		3	St. Paul.....	1	
California:			Missouri:		
Berkeley.....	11		Kansas City.....	2	4
Long Beach.....		1	Nebraska:		
Los Angeles.....	8		Lincoln.....		1
Oakland.....	3	1	New Jersey:		
Sacramento.....	3	1	Belleville.....	6	
San Francisco.....	33	1	Bloomfield.....	1	
Colorado:			Clifton.....	3	
Denver.....		1	Harrison.....	1	
Connecticut:			Jersey City.....	1	
Greenwich.....	1		Kearny.....	2	
District of Columbia:			Montclair.....	1	
Washington.....	5	1	Newark.....	22	1
Georgia:			Paterson.....	1	
Atlanta.....	5	1	Trenton.....	3	1
La Grange.....	1		New York:		
Illinois:			Binghamton.....	2	
Chicago.....	13	3	New York.....	154	18
Indiana:			Saratoga Springs.....	2	
Fort Wayne.....		1	North Carolina:		
Kansas:			Salisbury.....	2	
Atchison.....	2		Ohio:		
Louisiana:			Lima.....		1
New Orleans.....	1	2	Springfield.....		1
Maryland:			Toledo.....		1
Baltimore.....	106	4	Pennsylvania:		
Cumberland.....	1		Philadelphia.....	9	16
Massachusetts:			Texas:		
Boston.....	6	2	Dallas.....	1	
Cambridge.....	2		Virginia:		
Fall River.....	2		Richmond.....	3	1
Haverhill.....	1		Roanoke.....	8	
Lynn.....	4		Wisconsin:		
North Adams.....	6		Kenosha.....	2	
Worcester.....	6		Milwaukee.....	1	
Michigan:					
Detroit.....	1				

LEPROSY.

Place.	Cases.	Deaths.
California:		
Los Angeles.....	1	

LETHARGIC ENCEPHALITIS.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
California:			New Jersey:		
Pasadena.....	1		Jersey City.....	1	
San Francisco.....	1		Virginia:		
Illinois:			Norfolk.....	1	
Oak Park.....		1			
Kansas:					
Topeka.....	1				

MALARIA.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Arkansas:			Massachusetts:		
Fort Smith.....	1		Boston.....	1	
California:			New Jersey:		
Los Angeles.....	1		New Brunswick.....	1	
Georgia:			Newark.....	1	
Atlanta.....	3		North Carolina:		
Savannah.....		1	Wilmington.....		1
Valdosta.....	7		Texas:		
Illinois:			Dallas.....	1	
Chicago.....	1				

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

MEASLES.

See p. 731; also Telegraphic weekly reports from States, p. 719, and Monthly summaries by States, p. 733.

FELLAGRA.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama:			North Carolina:		
Birmingham.....		1	Winston-Salem.....	1	
California:			Texas:		
Sacramento.....	1	1	Austin.....		1
Louisiana:			Dallas.....	1	1
Baton Rouge.....	1		Virginia:		
Massachusetts:			Lynchburg.....		1
Boston.....	1	1			

PNEUMONIA (ALL FORMS).

Alabama:			Iowa:		
Anniston.....	1		Burlington.....		1
Birmingham.....		11	Council Bluffs.....		1
Mobile.....		1	Dubuque.....		1
Montgomery.....	2		Keokuk.....	2	
Arizona:			Muscatine.....		1
Tucson.....		1	Kansas:		
Arkansas:			Arkansas City.....	4	
Hot Springs.....		1	Atchison.....	1	
California:			Coffeyville.....	1	
Alameda.....		1	Kansas City.....	2	
Berkeley.....	2	1	Topeka.....	3	
Los Angeles.....	42	13	Wichita.....		4
Oakland.....		3	Kentucky:		
Riverside.....		1	Covington.....	3	
Sacramento.....		3	Lexington.....		3
San Francisco.....	26	5	Louisville.....		7
Colorado:			Louisiana:		
Denver.....		13	Baton Rouge.....	2	
Pueblo.....		2	New Orleans.....		8
Connecticut:			Maine:		
Bridgeport.....		6	Bangor.....	1	
Greenwich.....	3		Biddeford.....	1	
Hartford.....	5	3	Portland.....		2
Manchester.....	1		Maryland:		
Meriden.....	2		Baltimore.....	99	50
Milford.....		1	Cumberland.....	3	1
New Britain.....		1	Massachusetts:		
Norwalk.....		1	Amesbury.....		1
Waterbury.....	2	1	Arlington.....		1
Delaware:			Attleboro.....		1
Wilmington.....		3	Beverly.....		1
District of Columbia:			Boston.....		26
Washington.....		18	Braintree.....		1
Georgia:			Brockton.....		3
Atlanta.....		12	Cambridge.....	7	3
La Grange.....	2		Chelsea.....	3	2
Macon.....		1	Chicopee.....	1	
Savannah.....		4	Everett.....		2
Valdosta.....		1	Fall River.....		9
Illinois:			Greenfield.....	2	1
Alton.....		1	Haverhill.....	4	1
Aurora.....	2	1	Holyoke.....	3	2
Blue Island.....	2	1	Leominster.....	2	
Chicago.....	287	74	Lowell.....		6
Danville.....	1		Lynn.....	3	2
East St. Louis.....		8	Malden.....	2	
Elgin.....		2	Medford.....		3
Galesburg.....	3	1	Melrose.....		2
Jacksonville.....		1	Methuen.....		1
Kewanee.....		1	New Bedford.....	1	2
La Salle.....		2	Newburyport.....	1	
Matteson.....	1		Newton.....	1	
Oak Park.....	3	1	Peabody.....	1	
Rock Island.....		2	Quincy.....		1
Indiana:			Salem.....		4
Bloomington.....		2	Somerville.....	7	2
East Chicago.....		3	Taunton.....		3
Fert Wayne.....		2	Wakefield.....	2	
Gary.....		2	Waltham.....		1
Hammond.....		1	Watertown.....	1	
Indianapolis.....		5	Winthrop.....	1	
Legonsport.....		1	Worcester.....		14
Marion.....		1			
Muncie.....		1			

CITY REPORTS FOR WEEK ENDED Mar. 19, 1921—Continued.

PNEUMONIA (ALL FORMS)—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Michigan:			New York—Continued.		
Ann Arbor.....	2	.....	Rome.....	1	.....
Detroit.....	54	29	Schenectady.....	4	.....
Flint.....	1	.....	Syracuse.....	.....	11
Hamtramck.....	.....	3	Troy.....	4	1
Highland Park.....	2	1	White Plains.....	.....	3
Holland.....	1	1	Yonkers.....	6	3
Ironwood.....	.....	1	North Carolina:		
Marquette.....	1	.....	Charlotte.....	.....	3
Muskegon.....	.....	1	Durham.....	.....	1
Pontiac.....	2	2	Greensboro.....	.....	1
Port Huron.....	2	1	Salisbury.....	.....	3
Sault Ste. Marie.....	1	1	Wilmington.....	.....	2
Minnesota:			Winston-Salem.....	.....	2
Austin.....	.....	1	Ohio:		
Duluth.....	.....	4	Akron.....	5	.....
Minneapolis.....	.....	13	Alliance.....	.....	2
St. Paul.....	.....	10	Barberton.....	.....	3
Missouri:			Canton.....	.....	3
Independence.....	1	.....	Cincinnati.....	.....	7
Jefferson City.....	.....	1	Cleveland.....	44	23
Kansas City.....	16	11	Columbus.....	.....	5
St. Joseph.....	.....	2	Cuyhoga Falls.....	2	.....
Montana:			Dayton.....	2	.....
Billings.....	.....	1	East Cleveland.....	1	.....
Butte.....	.....	2	Hamilton.....	.....	1
Great Falls.....	1	1	Lima.....	.....	3
Nebraska:			Middletown.....	1	.....
Lincoln.....	.....	2	Newark.....	.....	1
Omaha.....	.....	8	Niles.....	.....	1
Nevada:			Piqua.....	3	.....
Reno.....	.....	1	Portsmouth.....	.....	1
New Hampshire:			Springfield.....	.....	2
Concord.....	.....	3	Toledo.....	.....	8
Manchester.....	.....	4	Youngstown.....	.....	8
New Jersey:			Zanesville.....	.....	2
Atlantic City.....	5	2	Oklahoma:		
Bayonne.....	3	.....	Oklahoma City.....	.....	5
Belleville.....	5	.....	Oregon:		
Bloomfield.....	1	.....	Portland.....	.....	4
Clifton.....	.....	3	Salem.....	.....	2
East Orange.....	2	.....	Pennsylvania:		
Elizabeth.....	.....	3	Philadelphia.....	133	94
Englewood.....	3	.....	Rhode Island:		
Hackensack.....	5	.....	Cranston.....	.....	1
Harrison.....	1	.....	Pawtucket.....	.....	1
Hoboken.....	.....	2	Providence.....	.....	9
Jersey City.....	13	.....	South Carolina:		
Kearny.....	.....	1	Charleston.....	.....	4
Montclair.....	2	1	Tennessee:		
Newark.....	90	11	Nashville.....	.....	3
Orange.....	.....	1	Texas:		
Passaic.....	.....	2	Dallas.....	8	3
Perth Amboy.....	.....	1	El Paso.....	.....	5
Phillipsburg.....	.....	4	Fort Worth.....	.....	2
Plainfield.....	.....	1	Waco.....	.....	1
Summit.....	2	.....	Utah:		
Trenton.....	10	2	Salt Lake City.....	.....	4
West Hoboken.....	1	.....	Vermont:		
New York:			Burlington.....	.....	1
Albany.....	6	.....	Rutland.....	.....	1
Binghamton.....	10	1	Virginia:		
Buffalo.....	42	7	Alexandria.....	.....	1
Cohoes.....	.....	1	Lynchburg.....	.....	1
Geneva.....	.....	1	Petersburg.....	.....	1
Glen Falls.....	2	1	Richmond.....	.....	11
Herkimer.....	.....	1	Ryanoke.....	7	1
Ithaca.....	5	1	West Virginia:		
Jamestown.....	5	1	Charleston.....	.....	2
Lackawanna.....	5	2	Huntington.....	.....	2
Lockport.....	2	.....	Morgantown.....	.....	1
Middletown.....	1	.....	Wheeling.....	.....	2
Mount Vernon.....	9	3	Wisconsin:		
Newburg.....	5	.....	Beloit.....	.....	1
New York.....	512	219	Madison.....	.....	2
Niagara Falls.....	7	3	Oshkosh.....	.....	3
North Tonawanda.....	2	.....	Racine.....	.....	1
Peekskill.....	2	.....	Superior.....	.....	5
Port Chester.....	3	.....	Wausau.....	.....	3
Poughkeepsie.....	1	.....	Wyoming:		
Rochester.....	18	9	Cheyenne.....	.....	1

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

POLIOMYELITIS (INFANTILE PARALYSIS).

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

Place.	Median for previous years.	Week ended Mar. 19, 1921.		Place.	Median for previous years.	Week ended Mar. 19, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Michigan:			
San Francisco.....	0	1	.....	Detroit.....	0	1	1
Louisiana:				Tennessee:			
New Orleans.....	0	1	.....	Nashville.....	0	1	.....
Massachusetts:				Wisconsin:			
Boston.....	0	1	.....	Milwaukee.....	0	1	.....

RABIES IN ANIMALS.

Place.	Cases.	Place.	Cases
Iowa:		North Carolina:	
Kookuk.....	1	Salisbury.....	1
Massachusetts:			
Fall River.....	1		

SCARLET FEVER.

See p. 731; also Telegraphic weekly reports from States, p. 719, and Monthly summaries by States, p. 723.

SMALLPOX.

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

Place.	Median for previous years.	Week ended Mar. 19, 1921.		Place.	Median for previous years.	Week ended Mar. 19, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Illinois:			
Birmingham.....	1	26	.....	Alton.....	0	1	.....
Mobile.....	1	4	.....	Aurora.....	0	2	.....
Montgomery.....	0	13	.....	Bloomington.....	0	5	.....
Tuscaloosa.....	0	7	.....	Centralia.....	1	2	.....
Arkansas:				Chicago.....	4	2	.....
Hot Springs.....	1	1	.....	East St. Louis.....	0	19	.....
Little Rock.....	1	1	.....	Evanston.....	0	1	.....
California:				Freeport.....	0	4	1
Berkeley.....	0	3	.....	Pekin.....	5	2	.....
Los Angeles.....	2	8	.....	Peoria.....	5	6	.....
Oakland.....	0	9	.....	Rockford.....	0	20	.....
Sacramento.....	0	6	.....	Rock Island.....	2	1	.....
San Francisco.....	2	28	.....	Springfield.....	4	2	.....
Colorado:				Indiana:			
Denver.....	16	28	.....	Bloomington.....	1	5	.....
Pueblo.....	1	3	.....	Elkhart.....	0	9	.....
Trinidad.....	1	2	.....	Evansville.....	2	6	.....
District of Columbia:				Fort Wayne.....	2	6	.....
Washington.....	0	1	.....	Frankfort.....	.....	8	.....
Georgia:				Gary.....	1	3	.....
Atlanta.....	5	43	1	Indianapolis.....	5	17	.....
Macon.....	2	16	.....	Kokomo.....	0	1	.....
Savannah.....	0	1	.....	La Fayette.....	0	3	.....
Valdosta.....	.....	1	.....	Louisport.....	2	1	.....
Idaho:				Marion.....	0	12	.....
Boise.....	3	2	.....	Mishawaka.....	0	3	.....

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

SMALLPOX—Continued.

Place.	Median for pre- vious years.	Week ended Mar. 19, 1921.		Place.	Median for pre- vious years.	Week ended Mar. 19, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Indiana—Continued.				North Dakota:			
Muncie.....	7	1	.....	Fargo.....	0	6	.....
Shelbyville.....	.....	12	.....	Grand Forks.....	0	9	.....
South Bend.....	2	8	.....	Ohio:			
Terre Haute.....	1	9	.....	Akron.....	0	4	.....
Iowa:				Canton.....	1	9	.....
Cedar Rapids.....	3	12	.....	Cincinnati.....	1	12	.....
Council Bluffs.....	6	1	.....	Cleveland.....	3	2	1
Davenport.....	11	5	.....	Columbus.....	1	19	.....
Des Moines.....	4	4	.....	Dayton.....	3	4	.....
Dubuque.....	3	3	.....	Hamilton.....	.....	2	.....
Iowa City.....	1	4	.....	Kennmore.....	.....	1	.....
Marshalltown.....	7	1	.....	Lancaster.....	0	2	.....
Mason City.....	4	3	.....	Lima.....	0	18	.....
Moscatoine.....	0	4	.....	Mansfield.....	.....	1	.....
Sioux City.....	3	24	.....	Marion.....	1	1	.....
Kansas:				Middletown.....	2	2	.....
Colleyville.....	0	1	.....	Newark.....	0	1	.....
Fort Scott.....	2	16	.....	Portsmouth.....	3	6	.....
Hutchinson.....	0	13	.....	Toledo.....	2	14	.....
Kansas City.....	3	6	.....	Youngstown.....	6	1	.....
Lawrence.....	0	1	.....	Zanesville.....	0	1	.....
Parsons.....	1	2	.....	Oklahoma:			
Salina.....	.....	20	.....	Oklahoma City.....	13	10	.....
Topeka.....	4	7	.....	Tulsa.....	5	4	.....
Wichita.....	9	5	.....	Oregon:			
Kentucky:				Portland.....	2	3	.....
Lexington.....	0	1	.....	Salem.....	0	2	.....
Louisville.....	1	5	.....	Pennsylvania:			
Paducah.....	1	2	.....	Altoona.....	0	3	.....
Louisiana:				Bethlehem.....	0	1	.....
Baton Rouge.....	0	3	.....	Williamsport.....	.....	1	.....
New Orleans.....	10	17	2	South Carolina:			
Maine:				Charleston.....	0	10	.....
Waterville.....	.....	1	.....	Columbia.....	0	4	.....
Massachusetts:				Spartanburg.....	1	1	.....
Boston.....	0	1	.....	South Dakota:			
Methuen.....	.....	1	.....	Sioux Falls.....	2	4	.....
Michigan:				Tennessee:			
Battle Creek.....	0	2	.....	Chattanooga.....	1	18	.....
Detroit.....	12	49	.....	Knoxville.....	3	7	.....
Flint.....	1	6	.....	Nashville.....	0	11	.....
Hamtramck.....	.....	2	.....	Texas:			
Marquette.....	1	1	.....	Beaumont.....	0	5	.....
Pontiac.....	0	5	.....	Dallas.....	10	11	.....
Sault Ste. Marie.....	0	1	.....	Galveston.....	1	3	.....
Minnesota:				Waco.....	2	9	.....
Austin.....	.....	5	.....	Utah:			
Duluth.....	1	10	.....	Salt Lake City.....	3	41	.....
Mankato.....	1	2	.....	Virginia:			
Minneapolis.....	20	106	.....	Norfolk.....	0	2	.....
Rochester.....	.....	6	.....	Richmond.....	0	3	.....
St. Cloud.....	1	4	.....	Roanoke.....	0	1	.....
St. Paul.....	9	56	.....	Washington:			
Winona.....	3	3	.....	Aberdeen.....	0	3	.....
Missouri:				Everett.....	0	5	.....
Kansas City.....	13	27	.....	Seattle.....	2	31	.....
St. Joseph.....	5	1	.....	Spokane.....	19	33	.....
St. Louis.....	5	24	.....	Tacoma.....	2	1	.....
Montana:				Yakima.....	11	4	.....
Billings.....	1	3	.....	West Virginia:			
Butte.....	1	1	.....	Bluefield.....	6	8	.....
Nebraska:				Charleston.....	2	1	.....
Lincoln.....	5	4	.....	Huntington.....	0	1	.....
Omaha.....	3	15	.....	Wisconsin:			
Nevada:				Eau Claire.....	1	2	.....
Reno.....	0	2	.....	Green Bay.....	4	4	.....
New Jersey:				Kenosha.....	0	3	.....
West New York.....	.....	8	.....	La Crosse.....	1	5	.....
North Carolina:				Madison.....	1	10	.....
Charlotte.....	0	5	.....	Marinette.....	0	2	.....
Durham.....	0	4	.....	Milwaukee.....	7	33	.....
Winston-Salem.....	5	23	.....	Sheboygan.....	0	6	.....
				Superior.....	1	1	.....

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

TETANUS.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Georgia:			Texas:		
Savannah.....		1	Fort Worth.....		1
New York:					
New York.....	1				
Rochester.....		1			

TUBERCULOSIS.

See p. 731; also Telegraphic weekly reports from States, p. 719.

TYPHOID FEVER.

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

Place.	Median for previous years.	Week ended Mar. 19, 1921.		Place.	Median for previous years.	Week ended Mar. 19, 1921.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Missouri:			
Birmingham.....	2	9		Independence.....	1	2	
Arkansas:				Joplin.....	0	1	
Fort Smith.....	0	1		Kansas City.....	0	2	
California:				St. Louis.....	4	2	
Los Angeles.....	2		1	New Jersey:			
Oakland.....	1	1		Atlantic City.....	0	1	
San Francisco.....	3	7		New York:			
Colorado:				Buffalo.....	2	1	1
Greeley.....	0	1		Jamestown.....	0	2	
Connecticut:				New York.....	9	8	1
Meriden.....	0	1		North Tonawanda.....	0	2	
District of Columbia:				Rochester.....	0	2	
Washington.....	2	1		Schenectady.....	0	3	
Georgia:				Syracuse.....	0	4	1
Savannah.....	0	2	1	Ohio:			
Illinois:				Cleveland.....	2	3	1
Alton.....	0	1		Columbus.....	0	1	1
Chicago.....	7	2		Lorain.....	0	1	
Springfield.....	0	1		Middletown.....	0	1	
Indiana:				Springfield.....	0	1	
Fort Wayne.....	0	1		Steubenville.....	0	1	
Iowa:				Oklahoma:			
Keokuk.....		1		Oklahoma City.....	0	1	
Kansas:				Pennsylvania:			
Topeka.....	0	1	1	Philadelphia.....	4	10	1
Louisiana:				Swissvale.....		3	
Baton Rouge.....	0	1		Rhode Island:			
New Orleans.....	2		1	Pawtucket.....	0	2	
Maryland:				Texas:			
Baltimore.....	4	7		Beaumont.....	0		1
Massachusetts:				Dallas.....	1	1	1
Boston.....	2		1	Washington:			
Fall River.....	0	1		Tacoma.....	0	1	
Lowell.....	0	3		West Virginia:			
Lynn.....	0	1		Huntington.....	0		2
Melrose.....	0	1		Morgantown.....	0	1	
Somerville.....	0	1		Wheeling.....	0	1	2
Michigan:				Wisconsin:			
Detroit.....	3	2		Superior.....	0	3	
Muskegon.....	0	1		Wausau.....	0	1	
Port Huron.....	0	1					
Minnesota:							
Duluth.....	0	1					

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

TYPHUS FEVER.

Place.	Cases.	Deaths.
California:		
Los Angeles.....		1

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

Place.	Population Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Anniston.....	17,734		1						4	
Birmingham.....	178,270	61	3		13		2		13	5
Mobile.....	60,151	18			12	1				1
Montgomery.....	43,464	9					1		3	1
Arizona:										
Tucson.....	20,292	18								8
Arkansas:										
Fort Smith.....	28,811		1		52		1			
Hot Springs.....	11,685	8								1
Little Rock.....	64,997		2		67		3		4	
North Little Rock.....	14,048	1			1				1	
California:										
Alameda.....	28,806	8	1				4			
Berkeley.....	55,886	13			3		5			
Eureka.....	12,923	5					4		1	
Long Beach.....	55,593	17	1		13					1
Los Angeles.....	576,673	179	49		253	2	27	3	73	14
Oakland.....	216,361	40	6				5		8	2
Passadena.....	45,354	11			106				5	1
Riverside.....	19,341	11	1		27					1
Sacramento.....	68,857	22	3		2		1		6	
San Bernardino.....	18,721	6			2				1	2
San Diego.....	74,683	30	3	1	6				6	2
San Francisco.....	508,410	134	27		42		17		34	14
Santa Barbara.....	19,441	5					1			
Santa Cruz.....	10,917	2								
Vallejo.....	21,107	1	1				3			
Colorado:										
Denver.....	256,369	85	10	1	119		18	2		14
Greeley.....	10,883	3					1			1
Pueblo.....	42,908		3		42					2
Trinidad.....	10,906				8					
Connecticut:										
Bridgeport.....	143,538	25	17	2	1		18		5	2
Bristol.....	20,620	3			3		1			
Derby.....	11,238	4	2				1		2	
Fairfield (town).....	11,475		1				2			
Greenwich (town).....	22,123		2		55				3	1
Hartford (town).....	138,036	36	9		14		6		9	5
Manchester (town).....	18,370	2			2		5			
Meriden (town).....	34,739				2		3		1	
Milford (town).....	10,193	1					3			
New Britain.....	59,316	8	1		15		6			
New London.....	25,688	6					5		1	
Norwalk.....	27,700	7	1		1		1			
Norwich (city).....	22,304	5								1
Waterbury.....	91,410	16	4	1	10		3	1	2	
Delaware:										
Wilmington.....	110,168	26	5				15			2
District of Columbia:										
Washington.....	437,571	128	13	1	303	2	41		25	10
Georgia:										
Atlanta.....	200,616	74	4		33		7			6
Brunswick.....	14,413	3								
La Grange.....	17,088		2		89				1	
Macon.....	52,995	15	1				1			1
Savannah.....	88,252	31	1				1			3
Valdosta.....	10,783	2								
Idaho:										
Boise.....	21,393	4			38		1			

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Popula- tion Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Illinois:											
Alton.....	24,682	6	2		4		1				
Aurora.....	36,397	8			3		1				
Bloomington.....	28,725	7					10		1	1	
Blue Island.....	11,424	1					5		1		
Centralia.....	12,491	2					1				
Chicago.....	2,701,705	668	209	11	367	7	123	3	215	48	
Danville.....	33,750	12							7		
Decatur.....	43,818	7	6				9		4		
East St. Louis.....	66,740	23	2		10		5			1	
Elgin.....	27,454	11	5	1	108		1				
Evanston.....	37,215	11	4		4		2				
Freeport.....	19,669	6	1						1	2	
Galesburg.....	23,834	6			37						
Jacksonville.....	15,713	8			33		10		38		
Kewanee.....	16,026	5	5		36		2				
La Salle.....	13,050	4	1								
Mattoon.....	13,552						1				
Oak Park.....	39,830	13	1		73		3		1		
Pekin.....	12,066						2				
Peoria.....	76,121	21	2				10		4		
Rockford.....	65,651	12	3		32		9			1	
Rock Island.....	35,177	10			3		3			1	
Springfield.....	59,183	17	1				15				
Indiana:											
Bloomington.....	11,595	5					1				
East Chicago.....	35,967	14		1							
Elkhart.....	24,277	4					7				
Evansville.....	85,264		3		1		1				
Fort Wayne.....	86,549	22	14	1	17		5		2		
Frankfort.....	11,585	2			2		3				
Gary.....	55,378	14	2	1			1			1	
Hammond.....	36,004	4					3				
Huntington.....	14,000	3			17		14		1	1	
Indianapolis.....	314,194	67	13				66		27	6	
Kokomo.....	30,067	7			1		2			1	
La Fayette.....	22,496	12	1				3		1	2	
Logansport.....	21,626	3	1								
Marion.....	23,747	9	2				1			1	
Mishawaka.....	15,195	5	2		1		4			1	
Muncie.....	36,624	9	1				4				
South Bend.....	70,983	11	1		3		2			1	
Terre Haute.....	66,083	14	3	2	2		11	1			
Iowa:											
Burlington.....	24,057	5	1				2	1			
Cedar Rapids.....	45,566						2				
Council Bluffs.....	36,162	7					6	1			
Davenport.....	56,727						1				
Des Moines.....	126,468		3		8		8				
Dubuque.....	39,141		3				3				
Iowa City.....	11,267				3						
Keokuk.....	14,423	4			24						
Marshalltown.....	15,731				17		2				
Mason City.....	20,065	4					6				
Muscatine.....	16,068	11	1		29		1				
Sioux City.....	71,227		2				4				
Kansas:											
Arkansas City.....	11,253	2			3						
Atchison.....	12,630				1		2		1		
Coffeyville.....	13,452	1									
Fort Scott.....	10,663	4	9								
Hutchinson.....	23,298		1		8		3		1		
Kansas City.....	101,177		3		22		2		1		
Lawrence.....	12,456	4					1				
Leavenworth.....	16,912	4			3		2				
Parsons.....	16,028	2	2						1		
Salina.....	15,065	1	1		1		2				
Topeka.....	50,022	13	3		9	1	1		5		
Wichita.....	72,128	28	2	1	79		7			2	
Kentucky:											
Covington.....	57,121	9					1			2	
Lexington.....	41,534	12	2		5		1			2	
Louisville.....	234,891	65	10		10		25		13	7	
Paducah.....	24,735		1								

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Population Jan. 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Louisiana:										
Baton Rouge.....	21,782	2	2		3		2			
New Orleans.....	387,219	120	5	1	11	2	6		27	9
Maine:										
Auburn.....	16,985	5								
Bangor.....	25,978		2							
Bath.....	14,731	5								
Biddeford.....	18,008	4	1				1		2	
Lewiston.....	31,791	6	4				1			
Portland.....	69,272	14	2		21		2			
Sanford.....	10,691	4								
Waterville.....	13,351		1		6		1			
Maryland:										
Baltimore.....	733,826	249	21	1	48	3	30			25
Cumberland.....	29,837	8					1		1	
Massachusetts:										
Amesbury.....	10,036	5								
Arlington.....	18,665	7			1		4			
Attleboro.....	19,731	3	6				3			2
Belmont.....	10,749	1			4		3		1	
Beverly.....	22,561	6			2		2			
Boston.....	748,060	233	71	5	101	2	70	3	60	27
Braintree.....	10,580	2								
Brookline.....	66,138		4		2				5	
Brookline.....	37,748	5	2		1		1		4	1
Cambridge.....	109,694	29	2		57		6		8	2
Chelsea.....	43,184	14	3	1	12		3		2	
Chicopee.....	36,214	5					1		1	1
Clinton.....	12,979	4			3				2	
Danvers.....	11,108		1						1	
Dedham.....	10,792	3								
Everett.....	40,120	11	1		4		9		5	
Fall River.....	120,485	42	4		14	1	1		1	3
Greenfield.....	15,462	2			1		7		2	
Haverhill.....	53,884	12	1		1		5		1	3
Holyoke.....	60,203	11			3				1	1
Lawrence.....	94,270	18	2		1		10	2	8	
Leominster.....	19,744	0			7		1		1	
Lowell.....	112,479	34	8	2	46		1		6	2
Lynn.....	99,148	23	5	1	3		9		4	2
Malden.....	49,108	15	5		1		5	1	2	
Medford.....	39,038	9	3		9		8		2	
Melrose.....	18,204	4			1		3			
Methuen.....	15,189	2	1				1			1
New Bedford.....	121,217	29	3		2		9		11	3
Newburyport.....	15,618	4					1			
Newton.....	46,054	12	1		2				4	1
North Adams.....	22,282	10			18		2		1	1
Northampton.....	21,951	8	1		2		3		1	1
Norwood.....	12,627	6			2		1		1	
Peabody.....	19,552	5	2				1		1	
Pittsfield.....	41,751	11	1		2		3		1	2
Plymouth.....	13,045	5								1
Quincy.....	47,876	10			8					1
Salem.....	42,529	15	3		5				1	
Somerville.....	98,001	25	11	1			1		3	
Southbridge.....	14,245	2			1				1	
Springfield.....	120,563	36	6		1		10	1	6	2
Taunton.....	37,137	20	2	1	4		7		6	3
Wakefield.....	13,025	1			4				1	
Waltham.....	30,915	10					2		1	
Watertown.....	21,457	2	1				2			1
Westfield.....	18,604	1	1							
Winthrop.....	15,455	1			1		2			
Woburn.....	16,574	3								
Worcester.....	179,754	38	3		56		10	1	6	7
Michigan:										
Ann Arbor.....	19,516	12	1		2		2		2	
Battle Creek.....	38,164						3			
Benton Harbor.....	12,233								1	
Detroit.....	993,730	208	89	6	18	3	79	3	48	20
Flint.....	91,899	19	9				7			
Grand Rapids.....	137,634	41	9		2		3		14	2
Hamtramck.....	48,615	10	1		2		1			

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Population Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Michigan—Continued.										
Highland Park.....	46,490	6	2		2		4			
Holland.....	12,166	1								
Ironwood.....	15,739	2					1			
Kalamazoo.....	48,858	10			1		12		3	
Marquette.....	12,718	1					1		4	
Muskegon.....	36,570	9	2				3			
Pontiac.....	34,273	11			1		2		2	
Port Huron.....	25,914	4	1						1	
Sault Ste. Marie.....	12,096	4			12		1			
Minnesota:										
Austin.....	10,118	2					3			1
Duluth.....	98,917	23	1		1		12		3	2
Hibbing.....	15,089	2								1
Mankato.....	12,469	2							3	
Minneapolis.....	380,582	115	5		9		54	4	47	7
Rochester.....	13,722	2			3		2			
St. Cloud.....	15,873		3		3					
St. Paul.....	234,595	64	11		3		45	1	13	6
Virginia.....	14,022		2						1	
Winona.....	19,145						4		1	
Missouri:										
Cape Girardeau.....	10,252	2								
Independence.....	11,686	7	1		1					
Jefferson City.....	14,490	2								1
Joplin.....	29,855		1							
Kansas City.....	324,410	67	13	1	69	1	3		10	7
St. Joseph.....	77,939	20	4		30		2			
St. Louis.....	772,897	206	82	1	14		50	1	27	15
Montana:										
Anaconda.....	11,668	0							2	
Billings.....	15,100	2	1		18					
Butte.....	41,611	9	6	1	4				5	
Great Falls.....	21,121	4			19					1
Missoula.....	12,668	3	1		22					
Nebraska:										
Lincoln.....	54,931	22	2		2		15			2
Omaha.....	191,601	47	8	2	12		14			4
Nevada:										
Reno.....	12,016	5								
New Hampshire:										
Berlin.....	16,104	0								
Concord.....	22,167	13			1		1			
Dover.....	13,029	7	1							
Keene.....	11,210				2					
Manchester.....	78,384	22	2				3		2	
Nashua.....	28,379	7	1				2		3	
Portsmouth.....	13,569		1				1			
New Jersey:										
Asbury Park.....	12,400	2								
Atlantic City.....	50,682	9	2		7		8		5	2
Bayonne.....	76,754		1				9		3	
Belleville.....	15,660		4		3		2		2	
Bloomfield.....	22,019	3			2		3		2	1
Clifton.....	26,470	5			4		6			
East Orange.....	50,710		2		10		6		1	
Elizabeth.....	95,682		6		12		11		4	3
Englewood.....	11,627	6	1				1			
Gloucester City.....	12,162						1			
Hackensack.....	17,667	2	3	1			5			
Harrison.....	15,721				2				2	
Hoboken.....	68,166	20	2		5		5	1		4
Irrvington.....	25,490		2		2		4		1	
Jersey City.....	297,864		17		25		16		16	
Kearny.....	26,724	3			9				1	
Montclair.....	28,810	5			6		2			
New Brunswick.....	32,779		6		3		1			
Newark.....	414,216	97	27		25		63		12	7
Orange.....	33,268	5			26		1		2	
Passaic.....	63,824	12	3	1	24		9			1
Paterson.....	135,868		11		1		3		9	
Perth Amboy.....	41,707	13	16		9		6		3	
Phillipsburg.....	16,923	7								
Plainfield.....	27,700	8	4		7		5		1	

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Popula- tion Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Jersey—Continued.										
Rahway	11,042	2								1
Summit	16,174	2					2			
Trenton	119,289	31	7	1	7		16	1	6	2
Union	20,451		2							
West Hoboken	40,068	4	3		1				1	
West New York	29,926	3	1	1			1			
West Orange	15,573	1	1		1					
New York:										
Albany	112,344		2		54		4		10	
Binghamton	66,800	14		1	14		4	1		
Buffalo	506,775	119	58		44		14		15	11
Colches	22,967	9								1
Elmira	45,305	13	1		5		2			
Geneva	14,648	2								
Glens Falls	16,638	7			10					
Herkimer	10,453	1								
Ithaca	17,004	7			10		1			1
Jamestown	38,917	6	4		8		1		2	
Lackawanna	17,913	5	1		1				1	
Lockport	21,308	1	1		18		1		1	
Middletown	18,420	1	1							
Mount Vernon	42,726	8			2		2		2	1
Newburgh	30,366	9	2				4			
New York	5,621,151	1,450	437	25	236	2	517	10	1,211	1,130
Niagara Falls	50,760	17	8		1		14		6	1
North Tonawanda	15,482	3	4		7		1			
Olean	20,506	2								
Peekskill	15,868	11					1		1	
Port Chester	16,573	5	1		23	1				
Poughkeepsie	35,006	10					2		1	1
Rochester	295,750	62	30	2	2		30	1	16	1
Rosse	26,341		3		27		4		3	
Saratoga Springs	13,181	3			16					
Schenectady	68,723	16	6		25		2		3	2
Syracuse	171,717	42	34		68	1	25	1		3
Troy	22,013	19	1		44				2	1
White Plains	21,681	9								1
Yonkers	100,226	19	9		17		13	1	4	2
North Carolina:										
Charlotte	46,338	24			28				3	1
Durham	21,719	5							5	1
Greensboro	19,991	5								2
Rocky Mount	12,742	7								1
Salisbury	13,884	6	1		10					
Wilmington	33,372	13			179		1			2
Winston-Salem	48,395	10	1		92				4	3
North Dakota:										
Fargo	21,961	7	2		8					
Grand Forks	14,010	0	4		8		1			
Ohio:										
Akron	208,435	45	4		5		12		23	
Alliance	21,603	6								
Barberton	18,811	6			3					
Bucyrus	10,425	5	1							
Canton	67,091	17	5	2	9		2		1	2
Chillicothe	15,531	2					1			
Cincinnati	401,247	117	20	1	14		20	1	26	8
Cleveland	796,536		31	5	28	2	60	1	20	15
Columbus	237,031	60	11		2		7		5	4
Cuyahogo Falls	10,300	1					1			
Dayton	132,599	50			1		4		2	
East Cleveland	27,282		1				3			
Findlay	17,021	3			2		1		1	1
Fremont	12,468	3					5			
Hamilton	39,675	16	1		1		5			
Ironton	14,067	4	1		2					
Keamsore	12,663		1							
Lancaster	14,706				4					1
Lima	41,306	8								
Lorain	37,285				4		2			
Mansfield	27,524	2			1					
Marion	27,891		2							
Middletown	28,594	6			3		2		1	1

! Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Population Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ohio—Continued.										
Newark.	26,718	6	1				1			1
New Philadelphia.	10,718						1			
Niles.	13,080	5			8			1	1	
Norwood.	24,966	3							1	1
Piqua.	15,044	2							1	
Portsmouth.	33,011	10	1				1			1
Salem.	10,305	6			29					1
Sandusky.	22,897	6								
Springfield.	60,840	7	1		5		11		3	1
Steubenville.	28,508	8	1		1		8			
Toledo.	246,109	69	20	3			3			10
Youngstown.	132,358	43	1		57		14	2		1
Zanesville.	29,569	15	2							2
Oklahoma:										
Oklahoma City.	91,258	26	5		2					2
Tulsa.	72,075		4		4					
Oregon:										
Portland.	258,288	77	13		125	1	6		6	6
Pennsylvania:										
Allentown.	73,502		5		29		14		3	
Altoona.	60,331		8		16		12			
Ambridge.	12,730				12		1			
Beaver Falls.	12,802				6		3			
Berwick.	12,181				1		2			
Bethlehem.	50,358		6		7		22			
Braddock.	20,879		3		2					
Butler.	23,778				11		3			
Carbondale.	18,640		2				2			
Carlisle.	10,916		1							
Carrick.	10,504		1				1			
Charleroi.	11,516		1							
Chester.	58,030		2		3		3		1	
Coatesville.	14,515		1				4		2	
Connellsville.	13,804						7			
Dickson City.	11,049		6				1			
Dubois.	13,681						1			
Easton.	33,813		1		16		1			
Erie.	93,372		8		50		2		6	
Farrell.	15,586		2				1			
Greensburg.	15,033				2					
Harrisburg.	75,917				10					
Hazleton.	32,277		1		1		1			
Homestead.	20,452						2			
Johnstown.	67,327		2		16		3			
Lancaster.	53,150		7				5			
McKeesport.	45,975		4		3		1		2	
McKees Rocks.	16,713		1						3	
Mahanoy City.	15,599		1							
Meadville.	14,563				25		6			
Mount Carmel.	17,469		2		3		2			
Nanticoke.	22,614				2		1			
New Castle.	44,938		5				1			
North Braddock.	14,928				2					
Oil City.	21,274		3		3		4			
Old Forge.	12,237		1				1			
Olyphant.	10,236		1							
Philadelphia.	1,823,158	550	70	12	81	1	214	1	74	46
Pittston.	18,497		1		3					
Plymouth.	16,500				3		3			
Pottstown.	17,431				1					
Pottsville.	21,876		3		8		3			
Reading.	167,784		8		11		5			
Scranton.	137,783		5		21		9		10	
Shamokin.	21,204		4						1	
Sharon.	21,747		2				3		2	
Sunbury.	15,721		1							
Swissvale.	10,908				10					
Uniontown.	15,692		2		2		2			
Washington.	21,490				2		2			
West Chester.	11,717						2		2	
Wilkes-Barre.	73,833		7		33		5		2	
Wilkesburg.	24,403		3		1		1		1	
Williamsport.	36,198		1				3			
York.	47,512		10							

CITY REPORTS FOR WEEK ENDED MAR. 19, 1921—Continued.

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

Place.	Population Jan. 1, 1920, subject to cor- rection.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Rhode Island:										
Cranston.....	29,407	5	—	—	14	—	2	—	—	—
East Providence (town).....	21,793	—	1	—	1	—	—	—	—	—
Newport.....	30,255	7	7	—	—	—	7	—	—	2
Pawtucket.....	64,248	12	5	—	—	—	5	—	—	1
Providence.....	237,595	78	10	—	63	11	7	—	—	6
South Carolina:										
Charleston.....	67,957	17	1	—	7	—	2	—	3	3
Columbia.....	37,524	—	—	—	57	—	3	—	—	—
Spartanburg.....	22,638	4	—	—	6	—	—	—	—	—
South Dakota:										
Sioux Falls.....	25,176	1	1	—	—	—	8	—	—	—
Tennessee:										
Chattanooga.....	57,895	—	3	—	1	—	2	—	1	—
Knoxville.....	77,818	—	—	—	5	—	3	—	4	4
Nashville.....	118,342	38	2	—	4	1	13	—	2	5
Texas:										
Austin.....	34,876	3	1	—	—	—	—	—	—	—
Beaumont.....	40,422	9	—	—	—	—	—	—	—	1
Dallas.....	158,976	33	5	1	108	1	2	—	7	2
El Paso.....	77,543	46	1	—	—	—	—	—	—	14
Fort Worth.....	106,482	20	1	—	10	—	12	—	—	2
Galveston.....	44,255	13	1	—	—	—	—	—	1	1
Waco.....	38,500	11	1	1	—	—	—	—	—	3
Utah:										
Salt Lake City.....	118,110	30	5	—	33	—	4	—	1	1
Vermont:										
Barre.....	10,008	—	—	—	—	—	2	—	—	—
Burlington.....	22,779	7	1	—	—	—	—	—	—	—
Rutland.....	14,954	6	—	—	10	—	—	—	—	—
Virginia:										
Alexandria.....	18,060	7	—	—	18	—	1	—	—	—
Lynchburg.....	29,956	14	—	—	4	—	3	—	1	2
Norfolk.....	115,777	—	3	—	108	—	11	—	2	3
Petersburg.....	31,002	7	—	—	8	—	1	—	3	1
Portsmouth.....	54,387	14	2	—	23	—	—	—	5	4
Richmond.....	171,667	59	4	—	76	—	3	—	—	2
Roanoke.....	50,842	10	1	—	71	—	—	—	—	—
Washington:										
Everett.....	27,644	—	—	—	4	—	1	—	—	—
Seattle.....	315,652	—	16	—	1	—	7	—	—	—
Spokane.....	104,437	—	3	—	3	—	1	—	—	—
Tacoma.....	96,965	—	—	—	2	—	10	—	—	—
Vancouver.....	12,637	—	1	—	22	—	2	—	—	—
Yakima.....	18,539	—	—	—	—	—	3	—	—	—
West Virginia:										
Bluefield.....	15,282	—	3	—	3	—	—	—	—	—
Charleston.....	39,608	11	3	—	13	—	—	—	1	1
Fairmont.....	17,851	—	1	—	1	—	—	—	—	—
Huntington.....	50,177	15	2	—	—	—	2	—	—	—
Morgantown.....	12,127	2	—	—	3	—	6	—	—	1
Moundsville.....	10,669	2	—	—	—	—	—	—	—	—
Parkersburg.....	20,050	8	—	—	—	—	—	—	—	—
Wheeling.....	54,322	20	3	1	13	—	7	—	—	1
Wisconsin:										
Appleton.....	19,561	—	—	—	—	—	5	—	—	—
Beloit.....	21,284	3	2	—	—	—	—	—	1	—
Eau Claire.....	20,880	—	2	—	—	—	7	—	—	—
Fond du Lac.....	23,427	5	4	—	—	—	—	—	—	—
Green Bay.....	31,017	6	2	—	2	—	3	—	—	1
Janesville.....	18,293	5	1	—	—	—	—	—	—	—
Kenosha.....	40,472	14	3	1	1	—	4	—	1	1
La Crosse.....	30,303	—	—	—	—	—	4	—	—	—
Madison.....	38,378	13	—	—	—	—	11	—	—	1
Marinette.....	13,610	—	—	—	2	—	—	—	—	—
Milwaukee.....	457,147	—	35	—	17	—	42	—	10	—
Oshkosh.....	35,162	10	1	—	—	—	1	—	—	—
Racine.....	58,593	12	11	—	—	—	15	—	—	1
Sheboygan.....	30,965	—	—	—	—	—	2	—	—	—
Superior.....	39,624	16	2	2	—	—	3	—	—	3
Wausau.....	18,061	9	—	—	1	—	5	—	—	—
Wyoming:										
Cheyenne.....	13,829	4	—	—	—	—	1	—	—	—

FOREIGN AND INSULAR.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Mar. 1-10, 1921.		Re- main- ing under treat- ment Mar. 10, 1921.	Disease.	Mar. 1-10, 1921.		Re- main- ing under treat- ment Mar. 10, 1921.
	New cases.	Deaths.			New cases.	Deaths.	
Cerebrospinal meningitis.	1	1	12	Measles.	10		6
Chicken pox.	2		7	Paratyphoid fever.			1
Diphtheria.	3	1	2	Scarlet fever.	2		6
Leprosy.			14	Smallpox.	1		5
Malaria.	51		51	Typhoid fever.	13	2	34

¹ From the interior 1; from abroad 1.

² From the interior 41.

³ From the interior 3.

⁴ From the interior 17.

Quarantine Against Honduras for Yellow Fever.

On March 18, 1921, quarantine restrictions on account of reported yellow fever were put in force by the quarantine authorities of Cuba against vessels from Honduras.

JAMAICA.

Infectious Disease (Alastrim or Kaffir Pox).

During the week ended March 12, 1921, 207 new cases of alastrim or Kaffir pox were reported in the island of Jamaica.

JUGOSLAVIA.

Typhus Fever—Province of Medjmurju.

During the week ended January 8, 1921, 114 remaining cases of typhus fever and 73 new cases of the disease were reported in the Province of Medjmurju, a mining region of Yugoslavia. During the week ended February 19, 1921, 51 remaining cases and 42 new cases were reported. The American consul at Belgrade, Yugoslavia, reported, February 21, 1921, suspension of health certificates for emigrants from the Province of Medjmurju.

MEXICO.**Plague—Tampico.**

Plague has been reported at Tampico, Mexico, as follows: March 27, 1921, one fatal case; March 30, 1921, one fatal case, with new zone of infection; April 2, 1921, pneumonic form of plague reported present.

PARAGUAY.**Plague—Asuncion.**

A fatal case of plague was reported at Asuncion, Paraguay, February 4, 1921. The case occurred in the vicinity of the market, where marked infestation of rats was reported to exist.

POLAND.**Typhus Fever—January, 1921.**

During the month of January, 1921, 5,308 cases of typhus fever with 597 fatalities were reported in Poland. The occurrence was reported according to districts as follows: Bialystok, cases, 321; fatalities, 33; Galicia, cases, 3,427; fatalities, 457; Kielce, cases, 426; fatalities, 42; Lodz, cases, 200; fatalities, 14; Lublin, cases, 383; fatalities, 18; Posen, cases, 13; Silesia, 1 case; Warsaw, cases, 340; fatalities, 16 (Warsaw city, cases, 197; fatalities, 17).

SPAIN.**Epizootic Epidemics—Province of Corunna.**

During the month of January, 1921, epidemics of epizootic diseases (including anthrax and foot-and-mouth disease), with 28,894 registered cases, were reported in the Province of Corunna, Galicia, Spain.

UNION OF SOUTH AFRICA.**Plague—Typhus Fever.**

During the week ended February 19, 1921, plague and typhus fever were reported in the Union of South Africa as follows: *Plague*.—Cape Province, three cases with one fatality occurring in natives in the Kroonstad district. *Typhus fever*.—Outbreaks reported in Cape Province and one outbreak in Natal.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.**Reports Received During Week Ended Apr. 8, 1921¹.****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Feb. 13-19.....	38	31	
Madras.....	Feb. 13-19.....	43	39	
Siam:				
Bangkok.....	Jan. 16-22.....	2		

PLAGUE.

Azores:				
Ponta Delgada.....	Feb. 5-11.....	1		
Brazil:				
Bahia.....	Feb. 6-12.....	2	1	
British East Africa:				
Kenya Colony—				
Kisumu.....	Jan. 23-Feb. 12.....			Present.
Nairobi.....	Jan. 23-Feb. 5.....	14	11	Pneumonia reported present.
Ceylon:				
Colombo.....	Jan. 30-Feb. 12.....	25	18	
India:				
Bombay.....	Jan. 30-Feb. 5.....	4	3	Jan. 30-Feb. 5, 1921: Cases, 3,700;
Madras Presidency.....	Feb. 13-19.....	1,013	675	deaths, 2,894.
Mexico:				
Tampico.....	Mar. 27-30.....	2	2	
Paraguay:				
Asuncion.....	Feb. 4.....	1	1	
Peru:				
Trujillo-Salaverry.....	Feb. 14-27.....	16	3	Feb. 16-28, 1921: Cases, 43; deaths, 23. In 8 municipalities and in country districts.
Tunis:				
Zarzis.....	Jan. 25.....	1		Jan. 15, 1921: 10 cases notified in vicinity. (Corrected report, received Mar. 30, 1921.)
Union of South Africa:				
Orange Free State—				
Kroonstad District.....	Feb. 13-19.....	3	1	In natives on farm in Bothaville area.

SMALLPOX.

Brazil:				
Pernambuco.....	Jan. 17-30.....	10		
British East Africa:				
Kenya Colony—				
Mombasa.....	Jan. 23-29.....	1		
Canada:				
British Columbia—				
Vancouver.....	Mar. 6-19.....	2		
Manitoba—				
Winnipeg.....	Mar. 6-12.....	1		
Ontario—				
Hamilton.....	Mar. 19-28.....	3		
Montreal.....	Mar. 13-19.....	6		
North Bay.....	do.....	2		
Saskatchewan—				
Saskatoon.....	Mar. 6-12.....	3		
Ceylon:				
Colombo.....	Jan. 30-Feb. 12.....	1	1	
China:				
Amoy.....	Jan. 23-Feb. 5.....		2	Present.
Canton.....	Jan. 1-31.....			Do.
Chungking.....	Jan. 23-Feb. 5.....			Do.
Foochow.....	Jan. 30-Feb. 12.....			
Manchuria Province—				
Dairen.....	Jan. 31-Feb. 13.....	50	7	
Nanking.....	Feb. 6-19.....			Do.
Tsingtau.....	Jan. 24-Feb. 13.....	2	1	
Colombia:				
Santa Marta.....	Mar. 6-12.....			Do.

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 Apr. 8, 1921—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Cuba:				
Antilla.....	Mar. 6-12.....	5		
Camaguey Province.....	Mar. 17.....	386		
Cienfuegos.....	Mar. 13-19.....	1		
Nuevitas.....	Mar. 14-20.....	6		
Oriente Province.....	Mar. 17.....	391		
Santiago.....	Feb. 20-23.....	21		
Egypt:				
Alexandria.....	Feb. 26-Mar. 4....	1		
France:				
Paris.....	Jan. 21-31.....	2		
Rouen.....	Feb. 20-27.....	1		
Haiti:				
Cape Haitien.....	Mar. 6-12.....	9		
India:				Dec. 19-25, 1920: Deaths, 353; Dec. 26, 1920-Jan. 1, 1921: Deaths, 292.
Bombay.....	Jan. 30-Feb. 5.....	14	4	
Calcutta.....	Feb. 13-19.....	3	2	
Karachi.....	Feb. 13-19.....	3		
Madras.....	Feb. 13-19.....	3		
Italy:				In vicinity, 26 cases.
Catania.....	Feb. 14-20.....	2		
Palermo.....	Feb. 9-22.....	91	17	
Java:				
West Java—				
Batavia.....	Jan. 27-Feb. 2....	2	1	
Garoet.....	.....do.....	1		
Krawang.....	.....do.....	2	1	
Pandeglang.....	.....do.....	6	2	
Madeira:				
Funchal.....	Feb. 27-Mar. 5.....		2	
Mexico:				Including municipalities in Fed- eral district.
Mexico City.....	Feb. 6-26.....	34		
Newfoundland:				
Grand Falls.....	Mar. 12-18.....	1		
Panama:				
Colon.....	Mar. 16-22.....	8		
Spain:				
Barcelona.....	Feb. 17-23.....		1	
Tunis:				
Tunis.....	Feb. 26-Mar. 11...	19	6	
Union of South Africa:				Present in rural areas.
Natal.....	Feb. 13-19.....			Present in rural area.
Orange Free State.....	.....do.....			
Transvaal—				
Johannesburg district.....	.....do.....	2		From Portuguese East Africa.

TYPHUS FEVER.

Chile:				
Valparaiso.....	Jan. 30-Feb. 19.....		5	
Egypt:				
Alexandria.....	Feb. 26-Mar. 4....	1		
Great Britain:				
Dublin.....	Feb. 27-Mar. 5.....	1		
Guatemala:				Feb. 1-23, 1921: Present in high- land Departments.
Jugoslavia:				
Province—				
Medjunurju.....	Jan. 2-8.....	73		114 remaining cases.
Do.....	Feb. 13-19.....	42		51 remaining cases.
Poland:				Jan. 1-31, 1921: Cases, 5,308; deaths, 597.
District—				
Bialystok.....	Jan. 1-31.....	321	33	
Galicia.....	.....do.....	3,427	437	
Kielce.....	.....do.....	426	42	
Lodz.....	.....do.....	200	14	
Lublin.....	.....do.....	383	18	
Posen.....	.....do.....	13		
Silesia.....	.....do.....	1		
Warsaw.....	.....do.....	340	16	
Warsaw city.....	.....do.....	197	17	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received During Week Ended Apr. 8, 1921—Continued.****TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				
Siberia—				
Vladivostok.....	Jan. 1-31.....	1	6	
Union of South Africa:				
Cape Province.....				Feb. 13-19, 1921: Outbreaks reported.
East London.....	Feb. 6-12.....	2	1	
Port Elizabeth.....	Jan. 30-Feb. 5.....	1		
Natal.....				Feb. 13-19, 1921: Outbreak reported.

YELLOW FEVER.

Pernu:				
Lambayeque—				
Chiclayo.....	Feb. 16-28.....	7	3	
Eten.....	do.....		1	
Ferrenafe.....	do.....	6	4	
Lambayeque.....	do.....	2		
Monsefu.....	do.....	2		

Reports Received from Jan. 1 to Apr. 1, 1921.**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Canton.....	Nov. 1-30.....	7	6	Present.
Changsha.....	Nov. 29.....			Do.
Chungking.....	do.....			Aug. 1-Dec. 2, 1920: Cases, 24,047; deaths, 13,329.
Chosen (Korea).....				Sept. 26-Oct. 9, 1920: Deaths, 2,672. Oct. 31-Dec. 11, 1920: Deaths, 7,184.
India.....				
Bombay.....	Dec. 5-11.....	1	1	
Do.....	Jan. 16-29.....	2		
Calcutta.....	Oct. 31-Dec. 25.....	321	183	
Do.....	Dec. 26-Feb. 12.....	373	321	
Madras.....	Dec. 12-18.....	77	44	
Do.....	Dec. 26-Feb. 12.....	130	65	
Rangoon.....	Nov. 24-Dec. 25.....	9	8	
Do.....	Dec. 26-Feb. 5.....	22	20	
Indo-China.....				July 1-31, 1920: Cases, 136; deaths, 93.
Saigon.....	Dec. 27-Jan. 9.....	1	1	Including surrounding country.
Japan:				
Taiwan Island (Formosa).....	Nov. 11-Dec. 31.....	219	93	
Do.....	Jan. 1-20.....	2		
Java:				
West Java—				
Bandoeng.....	Oct. 29-Nov. 11.....	2	1	
Batavia.....	Nov. 25-Dec. 1.....	1		
Philippine Islands:				
Manila.....	Nov. 7-Dec. 25.....	9		
Do.....	Jan. 9-Feb. 12.....	9		
Provinces—				
Cagayan.....	Oct. 3-Nov. 20.....	11	9	
Samar.....	Aug. 1-7.....	1	1	
Poland.....				Oct. 1-31, 1920: Cases, 26; deaths, 13.
Eastern frontier—				Present.
Bialystok.....	Dec. 16.....			Do.
Galicia.....	Nov. 1-30.....	19	11	Do.
Grodno.....	do.....			Present in Russian prison camp.
Olitza.....	do.....			
Posen.....	do.....			
Stralkowo.....	do.....			
Strelno.....	do.....	1	1	
Warsaw.....	Oct. 1-31.....	2		In district.
Do.....	Dec. 16.....	5		Nov. 1-30, 1920: Cases, 7; deaths, 2

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				
Lithuania.....				Feb. 19, 1921: Cases reported, 35 mortality, 30 per cent. Present.
Latvia.....				
Riga.....	Jan. 22.....			
Siam:				
Bangkok.....	Oct. 9-Nov. 7.....	7	1	
Do.....	Dec. 26-Jan. 1.....	1		

PLAGUE.

Algeria:				
Algiers.....	Nov. 1-Dec. 31....	3	1	
Do.....	Jan. 1-31.....	3	1	
Argentina:				
Rosario.....				Jan. 1-31, 1921: 3 plague rodents found.
Azores:				
St. Michaels.....				Total, Oct. 1-Dec. 10, 1920: Cases, 149; deaths, 49. In vicinity of Ponta Delgada.
Brazil:				
Bahia.....	Oct. 31-Dec. 18....	6	4	
Do.....	Dec. 26-Jan. 29....	9	6	
Ceara.....	Oct. 17-Feb. 5.....		16	
Pernambuco.....	Oct. 19-Dec. 5.....	1	3	
Port Alegre.....	Nov. 14-Dec. 11....		2	
Do.....	Dec. 26-Feb. 19....		7	
British East Africa:				
Kenya Colony—				Outbreak Nov. 8, 1920: Cases reported, 1,067.
Kisumu.....	Oct. 31-Dec. 25....			Present.
Do.....	Dec. 26-Jan. 22....			Do.
Mombassa.....	Oct. 31-Dec. 25....	2	2	
Do.....	Dec. 26-Jan. 15....			Do.
Nairobi.....	Oct. 31-Dec. 25....	16	11	
Do.....	Jan. 2-15.....	5	4	Pneumonic, present.
Uganda.....	Oct. 21-Dec. 25....	111	193	Entire protectorate.
Do.....	July 1-Nov. 5.....	259	63	Do.
Ceylon:				
Colombo.....	Nov. 7-Dec. 18....	18	60	
Do.....	Jan. 16-29.....	35	28	
Chile:				
Antofagasta.....	Nov. 24-Dec. 5.....	6	2	
Do.....	Dec. 27-Jan. 2.....	2		
China:				
Chihli Province.....				Present on Tientsin & Tukow R. R., 70 miles east of Tientsin. Pneumonic.
Fan Yuan.....	Mar. 3.....		50	In Northern Shantung Province
Hongkong.....	Nov. 7-Dec. 18....	6	6	
Do.....	Jan. 9-15.....	1	1	
Kwantung Province.....	Dec. 29.....			Reported present in Tapu district.
Manchuria Province—				
Changchun.....	Feb. 18.....	15		
Harbin.....	Feb. 2-Mar. 10....		58	West of Harbin, Feb. 7, 1921, 400 fatal cases reported. Feb. 14, 1921, fatal cases, 1,200. To Mar. 14, 1921: 4,000 fatal cases. Pneumonic. Fatal cases reported daily, about 40.
Manchuria station.....	Jan. 1-Mar. 10....		283	
Peking.....	Jan. 25.....		1	Chinese quarters.
Tsitsihar.....	Feb. 2-Mar. 10....			Present.
Shanghai.....				Two plague rats found, Dec. 20 and Dec. 31, 1920.
Ecuador:				
Guayaquil.....	Nov. 16-Dec. 31....	111	36	
Do.....	Jan. 1-Feb. 15....	135	47	
Egypt:				
Cities—				Jan. 1-Dec. 30, 1920: Cases, 462; deaths, 269. Jan. 1-Feb. 3, 1921 Cases, 12; deaths, 9.
Alexandria.....	Jan. 22-17.....	1	1	
Port Said.....	Oct. 22-28.....	1	1	
Do.....	Jan. 22.....	1	1	
Suez.....	Nov. 18-27.....	10	8	
Do.....	Jan. 5-Feb. 2.....	10	7	Pneumonic, 6 cases; septicemic, 1 case.

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued:

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt—Continued.				
Province—				
Assiout.....	Nov. 24.....	3	2	
France:				
Marseille.....	June-Aug. 31.....	58	20	
Paris.....	June-Oct. 15.....	50	11	In suburbs, June-Nov. 2, 1920: Cases, 33; deaths, 19.
Do.....				Jan. 1-13, 1921: Cases, 3; deaths, 1. (Suspect.)
Great Britain:				
Dublin.....				1 case reported Dec. 15, 1920; date of occurrence Oct. 13, 1920.
Liverpool.....				Plague-infected rat found, period Nov. 23-Dec. 11, 1920.
Greece:				
Kavala.....	Oct. 25-Nov. 7....	2		
India.....				Oct. 24-Dec. 25, 1920: Cases, 21,376; deaths, 14,874. Jan. 2-
Bombay.....	Nov. 23-Dec. 25....	6	6	29, 1921: Cases, 13,257; deaths, 10,088.
Do.....	Dec. 26-Jan. 29....	6	5	
Cakutta.....	Nov. 14-20.....	46	44	
Do.....	Jan. 30-Feb. 12....	1	1	
Karachi.....	Dec. 25-31.....	2	2	
Madras.....	Dec. 5-25.....	7	4	
Do.....	Jan. 9-29.....	3	1	
Madras Presidency	Nov. 14-Dec. 25....	4,349	2,991	
Do.....	Dec. 26-Feb. 12....	6,873	4,914	
Rangoon.....	Oct. 31-Dec. 25....	30	28	
Do.....	Dec. 26-Feb. 5....	58	53	
Indo-China.....				July 1-31, 1920: Cases, 98; deaths, 74.
Saigon.....	Dec. 27-Jan. 9....	2	2	Including surrounding country.
Java:				
West Java—				
Batavia.....	Nov. 21-Dec. 1....	3	3	
Do.....	Jan. 13-26.....	1	2	
Jugoslavia:				
Cattaro.....	Feb. 23.....	3		Among French troops.
Madagascar:				
Tamatave.....	Mar. 9.....			Present.
Mesopotamia:				
Bagdad.....	Oct. 1-31.....	25	7	
Mexico:				
Carbonera.....	Dec. 5-20.....	3	1	State of San Luis Potosi. Dec. 1920-Feb. 12, 1921: Cases, 24.
Do.....	Dec. 26-Jan. 8....	3		State of San Luis Potosi.
Cerritos.....	Dec. 5-20.....	7	8	
Do.....	Dec. 26-Feb. 5....	5		
Tampico.....	Mar. 23.....	2		
Vera Cruz.....				Mar. 21-27, 1921: Two plague-infected rodents found.
Peru.....				July-December, 1920: Cases, 292; deaths, 136; Jan.-Feb. 16, 1921: Cases, 98; deaths, 48.
Departments—				July-December, 1920: Cases, 23; deaths, 10. Jan. 1-31, 1921: Cases, 3; deaths, 2.
Callao-Lima.....				
Callao.....	Feb. 1-15.....	2		
Libertad.....	do.....	1		
Trujillo-Salaverry	Dec. 27-Feb. 13....	9	1	
Lima.....	Feb. 1-15.....	14	4	
Piura.....	do.....	21	10	
Porto Rico:				
San Juan.....	Feb. 18-25.....	7	2	Feb. 17-Mar. 3, plague rats found, 19.
Portuguese West Africa:				
Angola—				
Loanda.....				Mar. 18, 1921: Rat plague present.
Russia:				
Batum.....	Nov. 21-Dec. 3....	38		Epidemic outbreak.
Siam:				
Bangkok.....	Dec. 5-11.....	1	1	
Straits Settlements:				
Singapore.....	Oct. 31-Nov. 6....	1	1	
Tunis:				
Ben Gardane.....				June-July, 1920: Cases, 6. November-December, 1920: Cases, 10, in surrounding territory.
Zarzis.....	Jan. 15.....	10		In military territory, South Tunis.

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey:				
Constantinople.....	Nov. 21-27.....	1	2	
Union of South Africa:				
Orange Free State—				
Hoopstad district.....	Nov. 28-Dec. 18....	3	1	1 European, 2 natives. On Vryheid Farm. (Public Health Reports, June 25, 1920, p. 1560.)
Do.....	Jan. 23-Feb. 5.....	1	1	In European; on farm.
Kroonstad district.....	.....do.....	1	1	Do.
On vessel:				
S. S. Kronprincessen Victoria.	Jan. 15.....			At Stockholm, Sweden, Rat plague found. Vessel left Buenos Aires, Argentina, Nov. 17, 1920. Stopped at Goteborg and Malmo, Sweden. Left Malmo Jan. 11, 1921. Rats found dead Jan. 13, 1921, at Stockholm.

SMALLPOX.

Algeria:				
Algiers.....	Jan. 1-31.....	5		
Austria.....				Aug. 29-Dec. 25, 1920: Cases, 75.
Azores:				
Ponta Delgada.....	Dec. 18-24.....	7		
Bolivia:				
La Paz.....	Oct. 1-Dec. 31.....	19	7	
Brazil:				
Bahia.....	Oct. 31-Dec. 25....	6		
Do.....	Jan. 8-15.....	4		
Pernambuco.....	Oct. 18-Dec. 19....	102	2	
Do.....	Dec. 27-Jan. 16....	28		
Rio de Janeiro.....	Oct. 24-Dec. 25....	108	24	
Do.....	Dec. 26-Feb. 5.....	21	6	
Sao Paulo.....	Dec. 13-19.....		1	
British East Africa:				
Uganda.....				May 1-June 30, 1920: Cases, 272.
Bulgaria:				
Sofia.....	Nov. 7-13.....	2		
Canada:				
Alberta—				
Calgary.....	Dec. 12-18.....	2		
Do.....	Jan. 2-Feb. 19....	15		
British Columbia—				
Fernie.....	Feb. 6-12.....	2		
Vancouver.....	Dec. 5-11.....	1		
Do.....	Dec. 26-Feb. 26....	19		
Victoria.....	Jan. 30-Mar. 5.....	5		
Manitoba—				
Winnipeg.....	Jan. 16-Feb. 26....	15		
New Brunswick				
Bonaventure and Gaspé Counties.	Feb. 1-28.....	4		From lumber camp on Canadian Government Railway, Feb. 5, 1921, 5 cases.
Campbellton.....	Jan. 9-15.....			Present.
Gloucester County.....	Jan. 23-29.....	1		
Madawaska County.....	Jan. 30-Feb. 19....	2		
Restigouche County.....	Dec. 12-18.....	1		
Do.....	Feb. 6-19.....	2		
St. Stephen.....	Feb. 27-Mar. 5.....	1		
York County.....	.....do.....	6		
Nova Scotia—				
Sydney.....	Feb. 13-Mar. 19....	13		
Yarmouth.....	Jan. 9-Mar. 5.....	7		
Ontario				
Hamilton.....	Dec. 19-31.....	9		November-December, 1920: Cases 992; deaths, 5. Jan. 1-31, 1921: Cases, 902; deaths, 3.
Do.....	Jan. 2-Mar. 19....	59		
Kingston.....	Dec. 26-Jan. 19....	9		
London.....	Jan. 2-Mar. 12....	30		
Montreal.....	Jan. 2-Mar. 5.....	6		
Niagara Falls.....	Dec. 12-18.....	1		
North Bay.....	Dec. 12-25.....	4		
Do.....	Jan. 2-Mar. 12....	25		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from Jan. 1 to Apr. 1, 1921—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Ontario—Continued.				
Ottawa.....	Dec. 12-25.....	75	1	
Do.....	Dec. 26-Mar. 19.....	594	2	
Peterborough.....	Dec. 26-Feb. 5.....	2		
Sarnia.....	Feb. 20-Mar. 5.....	2		
Sault Ste. Marie.....	Jan. 9-Feb. 12.....	48		
Toronto.....	Dec. 12-25.....	7		
Do.....	Dec. 26-Mar. 19.....	56		
Quebec—				
Quebec.....	Jan. 23-Feb. 19.....	2		
Saskatchewan—				
Moose Jaw.....	Dec. 19-25.....	1		
Do.....	Jan. 2-Mar. 12.....	42		
Regina.....	Dec. 12-25.....	11		
Do.....	Jan. 2-Mar. 12.....	50		
Saskatoon.....	Dec. 16-22.....	20		
Do.....	Jan. 9-Feb. 19.....	18		
Ceylon:				
Colombo.....	Nov. 21-Dec. 25.....	18	7	
Do.....	Dec. 26-Jan. 29.....	4		
Chile:				
Iquique.....				Epidemic with high mortality.
China:				
Amoy.....	Nov. 7-Dec. 25.....		7	
Do.....	Dec. 26-Jan. 22.....		3	
Antung.....	Dec. 20-26.....	1		
Do.....	Jan. 10-Feb. 13.....	2	2	
Canton.....	Dec. 1-31.....			Present.
Chungking.....	Nov. 7-Dec. 25.....			Do.
Do.....	Dec. 26-Jan. 22.....			Do.
Foochow.....	Nov. 7-Dec. 25.....			Do.
Do.....	Dec. 26-Jan. 29.....			Do.
Hankow.....	Jan. 2-22.....	2	1	
Manchuria Province—				
Dairen.....	Nov. 16-Dec. 20.....	12	3	
Do.....	Dec. 28-Jan. 23.....	94	16	
Mukden.....	Dec. 12-18.....			Prevalent.
Do.....	Jan. 16-Feb. 12.....			Do.
Nanking.....	Nov. 14-Dec. 18.....			Present.
Do.....	Dec. 26-Feb. 5.....			Do.
Shanghai.....	Feb. 7-13.....	1		
Tientsin.....	Nov. 14-Dec. 4.....	2		Dec. 12-25, 1920: Cases, 160. In camp for famine refugees.
Do.....	Dec. 26-Feb. 5.....	5		In camp for famine refugees, 477.
Tsinanfu.....	Oct. 31-Nov. 12.....	20		Statistics of Shantung Christian Hospital.
Tsingtau.....	Jan. 3-9.....	1		
Chosen (Korea):				
Chemulpo.....	Dec. 1-31.....	1		
Fusan.....	Nov. 1-30.....	1		
Do.....	Jan. 1-31.....	4	1	
Gensan.....	Dec. 1-31.....	15	12	
Do.....	Jan. 1-31.....	24	8	
Colombia:				
Barranquilla.....	Jan. 16-22.....			Present.
Santa Marta.....	Dec. 5-25.....			Do.
Do.....	Dec. 26-Mar. 5.....			Do.
Cuba:				
Antilla.....	Dec. 7-27.....	10		For port of Preston.
Do.....	Jan. 2-Mar. 5.....	70		Do.
Cienfuegos.....	Dec. 26-Jan. 8.....			Stated to be present in virulent form in Camaguey Province.
Habana.....	Dec. 31-Feb. 16.....	11		1 from Jatibonico, Cuba; 1 from Jamaica.
Lugareno.....	Mar. 7-13.....	2		Vicinity of Nuevitas.
Matanzas.....	Jan. 2-29.....	6		
Nuevitas.....	Dec. 6-19.....	2		From Lugareno, a small station on railway, 16 miles distant, 1 case, week ended Dec. 12, 1920.
Do.....	Jan. 3-Mar. 6.....	22		
Santiago.....	Nov. 20-Dec. 10.....	26		
Do.....	Feb. 1-20.....	145		
Czechoslovakia.....				July 11-Aug. 14, 1920: Cases, 141; deaths, 29.
Danzig.....	Dec. 5-18.....	2		
Dominican Republic.....				Nov. 15-Dec. 25, 1920: Cases, 9; occurring in 4 localities.
Santo Domingo.....	Jan. 9-Feb. 19.....	13	1	

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Guayaquil.....	Nov. 16-Dec. 31...	33	2	
Do.....	Jan. 1-Feb. 15.....	32		
Egypt:				
Alexandria.....	Dec. 17-31.....	3	1	
Do.....	Jan. 1-Feb. 18.....	8	1	
Cairo.....	Oct. 1-Dec. 9.....	3		
Port Said.....	Nov. 19-Dec. 31.....	1	1	
France:				
Paris.....	Nov. 1-30.....	2	1	
Do.....	Jan. 1-20.....	5	1	
Rouen.....	Nov. 21-Dec. 31.....	7	2	
Do.....	Feb. 13-19.....	1		
St. Etienne.....	Dec. 3-15.....	2	1	
Do.....	Jan. 23-Feb. 12.....	3		
Germany.....				Aug. 29-Nov. 6, 1920: Cases, 40.
Great Britain:				
Glasgow.....	Dec. 25.....	11	2	
Do.....	Jan. 2-Mar. 5.....	22	8	
Liverpool.....	Jan. 30-Feb. 5.....	1		
London.....	Dec. 26-Jan. 1.....	1		
Greece:				
Saloniki.....	Nov. 15-Dec. 26.....	39	14	In surrounding country: Cases 21; deaths, 2.
Do.....	Dec. 27-Jan. 2.....	13	9	Sept. 22, 1920-Jan. 8, 1921: Cases, 2,262; deaths, 64.
Haiti:				
Cape Haitien.....	Feb. 13-26.....	14		In 8 interior towns, 20 cases. In one locality, 18 cases. In country district, vicinity of Port au Prince, cases numerous. From date of outbreak to Feb. 11, 1921: Cases, 2,874; deaths, 221.
Port au Prince.....	Sept. 22-Dec. 2.....	486	2	
Honduras:				
Ceiba.....	Feb. 13-Mar. 5.....	4		
India:				
Bombay.....	Nov. 7-Dec. 25.....	11	3	Sept. 28-Oct. 9, 1920: Deaths, 250. Oct. 31-Dec. 11, 1920: Deaths, 3, 902.
Do.....	Dec. 26-Jan. 29.....	46	12	
Calcutta.....	Dec. 5-11.....	2	2	
Do.....	Jan. 2-Feb. 5.....	8	5	
Karachi.....	Jan. 16-Feb. 12.....	10	2	
Madras.....	Nov. 14-Dec. 18.....	7	5	
Do.....	Dec. 26-Feb. 12.....	17	4	
Rangoon.....	Nov. 21-Dec. 25.....	5	1	
Do.....	Jan. 2-Feb. 6.....	3	1	
Indo-China.....				July 1-21, 1920: Cases, 107; deaths, 21.
Italy:				
Catania.....	Nov. 29-Dec. 5.....	1		In Province, Nov. 29-Dec. 5, 1920: Cases, 32. Jan. 3-16, 1921: Cases, 32. Jan. 17-Feb. 6, 1921: Cases, 45.
Do.....	Dec. 27-Jan. 2.....			In vicinity, 2 cases.
Genoa.....	Feb. 7-13.....	3		
Messina (city and Province).....	Jan. 3-Feb. 6.....	21	2	Dec. 5, 1920-Jan. 16, 1921: Cases, 25.
Palermo.....	Oct. 30-Dec. 27.....	410	124	
Do.....	Jan. 26-Feb. 8.....	102	15	
Java:				
West Java.....				Nov. 12-Dec. 29, 1920: Cases, 72; deaths, 6. Jan. 6-12, 1921: One case, one death.
Bandoeng.....	Nov. 19-25.....	1	1	
Batavia.....	Nov. 12-Dec. 25.....	14	5	
Indramayoc.....	Nov. 12-Dec. 29.....	1		
Krawang.....	do.....	1		
Do.....	Jan. 13-26.....	26	7	
Lebak.....	do.....	15	5	
Jugoslavia.....	July 25-Aug. 28.....	128	42	Feb. 7-13, 1920: Cases, 122; deaths, 27.
Zagreb.....	Jan. 9-Feb. 5.....	2	1	
Luxembourg.....	Dec. 15-Jan. 1.....	1		
Madeira:				
Funchal.....	Dec. 5-18.....		2	
Do.....	Dec. 26-Feb. 19.....		5	
Mesopotamia:				
Bagdad.....	Nov. 1-Dec. 31.....	2		
Mexico:				
Chihuahua.....	Dec. 6-26.....	11	3	
Do.....	Dec. 27-Mar. 13.....		15	
Guadalajara.....	Dec. 1-31.....	1		
Do.....	Jan. 1-31.....	1		

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Mexico City.....	Nov. 14-Dec. 25...	17	.....	Including municipalities in the Federal district.
Do.....	Jan. 2-Feb. 5.....	22	.....	Do.
Salina Cruz.....	Jan. 1-31.....	1	.....
San Luis Potosi.....	Feb. 6-12.....	.....	1	
Tecate.....	Jan. 17.....	3	.....
Torreón.....	Jan. 1-Feb. 28.....	6	3	
Newfoundland:				
St. Johns.....	Jan. 22-26.....	1	.....
Norway:				
Travanger.....	Jan. 23-29.....	3	.....
Panama:				
Colon.....	Jan. 5-Mar. 14.....	92	.....
Poland.....				Sept.-Oct., 1920: Cases, 175; deaths, 37.
Warsaw.....	Sept. 1-30.....	3	.....
Portugal:				
Lisbon.....	Nov. 23-Dec. 18.....	.....	5	
Do.....	Dec. 26-Feb. 26.....	.....	12	
Portuguese East Africa:				
Gaza district.....	Dec. 18-23.....	.....	.....	Present.
Inhamitane district.....	Dec. 26-Jan. 1.....	.....	.....	Do.
Lourenço Marques.....	Oct. 21-Dec. 11.....	10	.....	Reported present in interior of Chai-Chai district.
Quelimane.....	do.....	3	.....
Roumania:				
Kissineff.....	Jan. 1-Mar. 18.....	18	.....	District.
Russia:				
Estonia Province:				
Reval.....	Oct. 1-Nov. 30.....	28	.....	Dec. 1-31, 1920: Cases, 17.
Latvia—				
Riga.....	Nov. 1-Dec. 31.....	17	.....
Siberia—				
Vladivostok.....	Oct. 1-Nov. 30.....	2	1	
Spain:				
Barcelona.....	Nov. 18-Dec. 29.....	.....	13	
Do.....	Jan. 13-Feb. 16.....	.....	18	
Coruña.....	Dec. 12-18.....	.....	1	
Madrid.....	Nov. 1-30.....	.....	1	Year ended Dec. 31, 1920: Deaths, 9.
Do.....	Feb. 6-13.....	.....	1	
Malaga.....	Oct. 1-Dec. 31.....	.....	77	
Do.....	Jan. 1-31.....	.....	16	
Tarragona.....	Jan. 30-Feb. 19.....	.....	2	
Valencia.....	Dec. 5-25.....	3	.....
Do.....	Dec. 26-Feb. 26.....	15	1	
Syria:				
Aleppo.....	Nov. 14-Dec. 4.....	.....	.....	Dec. 12-25, 1920: Present.
Do.....	Jan. 16-Feb. 5.....	.....	.....	Present.
Tunis:				
Tunis.....	Nov. 30-Dec. 28.....	10	18	
Do.....	Jan. 8-Feb. 25.....	25	19	
Turkey:				
Constantinople.....	Nov. 21-Dec. 11.....	4	.....
Do.....	Jan. 2-Feb. 12.....	17	.....
Union of South Africa:				
Cape Province.....	Jan. 23-Feb. 5.....	.....	.....	Outbreaks.
Natal—				
Durban district.....	do.....	.....	.....	Outbreak.
Orange Free State.....	do.....	.....	.....	Outbreaks.
Transvaal.....				Jan. 23-Feb. 5, 1921: Outbreak in one district.
Johannesburg.....	Oct. 1-31.....	1	.....
Uruguay:				
Montevideo.....	Dec. 1-31.....	6	2	
On vessels:				
S. S. Alfonso XIII.....	Dec. 27.....	1	.....	At Habana, Cuba, from ports in northern Spain.
S. S. Cadiz.....	Jan. 5.....	1	.....	At Habana, Cuba, from Mediterranean ports.
U. S. S. Mississippi.....	Feb. 19-20.....	22	.....	In Canal Zone.
S. S. Ohioan.....	Jan. 4.....	1	.....	At San Pedro, Calif., from New York, via Balboa, Canal Zone.
S. S. Ventura.....	Jan. 18.....	1	.....	At Sydney, Australia, from San Francisco, Calif., via Honolulu, and Pago Pago, Samoa.

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	Jan. 1-31.....	2		
Belgium:				
Ghent.....	Dec. 12-18.....	5		
Bolivia:				
La Paz.....	Dec. 1-31.....	13	9	
Brazil:				
Ceara.....	Oct. 17-Dec. 26.....		3	
Bulgaria:				
Sofia.....	Jan. 2-Feb. 19.....	3		
Chile:				
Concepcion.....	Oct. 27-Dec. 27.....		25	
Do.....	Dec. 28-Feb. 20.....		9	Present in vicinity. Year 1920:
Coquimbo.....	Dec. 1-7.....		1	in public hospital, 50 cases, 13
Valparaiso.....	Oct. 25-Nov. 27.....		13	deaths.
China:				
Manchuria (Province)—				
Harbin.....	Nov. 22-23.....	1		On Chinese Eastern Railway.
Do.....	Jan. 3-9.....	1		
Manchuria Station	Nov. 22-23.....	2		Do.
Do.....	Jan. 10-16.....	1		
Chosen (Korea):				
Seoul.....	Dec. 1-31.....	1		
Do.....	Jan. 1-31.....	1		
Czechoslovakia.				July 11-Aug. 28, 1920: Cases, 138;
Prague.....	Feb. 1-7.....	1		deaths, 18. Reported present
Danzig.....	Dec. 20.....	1		Feb. 19, 1921.
Do.....	Jan. 16-Feb. 5.....	3	1	In emigrant from Brest-Litovsk
Egypt:				with 2 weeks' stay at Warsaw.
Alexandria.....	Nov. 19-Dec. 31.....	13	6	
Do.....	Jan. 1-Feb. 18.....	13	6	
Cairo.....	Oct. 1-Dec. 23.....	44	32	
Germany.....				Sept. 12-Dec. 25, 1920: Cases, 259,
Great Britain:				including 14 in a camp. Dec.
Belfast.....	Dec. 5-25.....	13		26, 1920-Jan. 8, 1921: Cases, 7.
Do.....	Jan. 9-Feb. 26.....	6	1	
Dublin.....	Nov. 28-Dec. 18.....	4	3	
Do.....	Jan. 9-Feb. 26.....	10	2	
Greece:				
Drama.....	Nov. 22-28.....	1		
Patras.....	Nov. 29-Dec. 5.....		1	
Saloniki.....	Oct. 25-Dec. 26.....	34	9	
Serres.....	Nov. 8-14.....	1		
Hungary:				Aug. 3-Dec. 5, 1920: Cases, 38.
Budapest.....	Nov. 8-Dec. 5.....	2		
Italy:				
Naples.....	Feb. 23.....	2		
Trieste.....	Feb. 14.....	30		Among emigrants intending to
Japan:				come to United States.
Nagasaki.....	Nov. 15-Dec. 26.....	10	1	
Do.....	Dec. 27-Feb. 20.....	12	5	
Jugoslavia	July 25-Aug. 28.....	27	5	Feb. 7-13, 1920: Cases, 84; deaths,
Belgrade.....	Jan. 9-22.....	2		2; Dec. 12-25, 1920: Cases, 112.
Zagreb.....	Dec. 12-25.....	27		
Do.....	Dec. 26-Feb. 12.....	37	5	City and county.
Malta.....	Dec. 1-31.....	1		
Mesopotamia:				
Bagdad.....	Nov. 1-30.....	1	1	
Mexico:				
Guadalajara.....	Dec. 1-31.....	11		
Do.....	Jan. 1-31.....	6	3	
Mexico City.....	Nov. 14-Dec. 23.....	67		Including municipalities in the
Do.....	Dec. 26-Feb. 5.....	111		Federal district.
Do.....	Dec. 5-31.....			Do.
San Luis Potosi.....	Jan. 16-Mar. 5.....			Present.
Netherlands:				Present; 1 death.
Rotterdam.....	Jan. 23-29.....	1		
Poland:				
Districts:				Sept.-Oct., 1920: Cases, 3,845;
Galicja.....	Nov. 1-30.....	1,192	286	deaths, 371. Nov. 1-30, 1920:
Kielce.....	do.....	279	15	Cases, 3,509; deaths, 350.
Lodz.....	do.....	83	6	Dec. 1-31, 1920: Cases, 4,644;
Lublin.....	do.....	403	20	deaths, 550. Jan. 1-31, 1921:
				Cases, 5,308; deaths, 597.

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

Reports Received from Jan. 1 to Apr. 1, 1921—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Poland—Continued.				
Districts—Continued.				
Posen.....	Nov. 1-30.....	17	.....
Silesia.....	.....do.....	6	.....
Warsaw.....	.....do.....	191	15	
Warsaw City.....	Nov. 1-Dec. 16....	96	8	
Portugal:				
Oporto.....	Nov. 28-Dec. 4....	1	.....
Do.....	Dec. 26-Jan. 1....	3	1	
Russia:				
Province—				
Esthonia.....	.....			Sept. 1-Dec. 31, 1920: Cases, 455.
Latvia.....	.....		
Riga.....	Nov. 1-Dec. 31....	185	.....
Do.....	Jan. 1-7.....	21	.....
Lithuania.....	.....			Feb. 19, 1921: Cases, 175; mortality, 5 to 6 per cent.
Ruthenia.....	.....			Feb. 19, 1921: Occurrence of about 5 fatal cases daily. Mar. 5, 1921: 200 fatal cases previously unreported.
Ukraine.....	.....			Feb. 19, 1921: Occurrence of about 5 fatal cases daily.
Turkey:				
Constantinople.....	Nov. 21-Dec. 25....	25	1	
Do.....	Jan. 2-Feb. 26....	40	.....
Union of South Africa:				
Cape Province—				
Cape Town.....	Dec. 20-26.....	16	5	
East London.....	Jan. 29-Feb. 5....	3	2	
Orange Free State.....	Jan. 23-Feb. 5....			Outbreaks.
Transvaal—				
Johannesburg district.....	.....do.....	1	.....
On vessels:				
S. S. Presidente Wilson.....	Feb. 1-6.....	15	.....	At New York. From Trieste, Italy, Jan. 15; Naples, Jan. 18; and Algiers, Jan. 22, 1921.
S. S. San Giusto.....	Feb. 10-Mar. 3....	22	.....	At New York. From Trieste, Jan. 23, and Naples, Jan. 26, 1921.

YELLOW FEVER.

Brazil:				
Pernambuco.....	Nov. 14-21.....	1	1	
Mexico:				
Orizaba.....	Dec. 5-18.....	2	1	
Papantla.....	.....do.....	8	2	
Do.....	Jan. 9-15.....	.....	1	
Tampico.....	Dec. 12-18.....	1	1	
Tuxpam.....	Dec. 5-18.....	9	4	
Do.....	Dec. 26-Jan. 1....	5	1	
Vera Cruz.....	Dec. 5-26.....	8	3	
Do.....	Dec. 26-Mar. 20..	6	1	
Zamora.....	Dec. 12-18.....	1	1	Also called Gutierrez, State of Vera Cruz.
Peru:				
Department—				
Lambayeque.....	.....			Outbreak reported Jan. 22, 1921.
Chiclayo.....	Feb. 1-15.....	11	3	
Eten.....	.....do.....	7	1	
Ferrenafe.....	Jan. 1-31.....	18	17	
Do.....	Feb. 1-15.....	38	15	
Lambayeque.....	Jan. 1-31.....	2	1	
Do.....	Feb. 1-15.....	2	.....
On vessel:				
S. S. Savoia.....	Jan. 11-15.....	4	.....	At Habana, Cuba, from Vera Cruz, Mexico. Vessel arrived Habana, Jan. 10, 1920, with three cases sickness on board. Two cases confirmed. Two cases developed later on board; confirmed Jan. 15. Savoia left Vera Cruz Jan. 6, 1921.