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BREEDING OF ANOPHELES QUADRIMACULATUS IN DEEP WATER AND AT A DISTANCE FROM SHORE.

By H. R. CARTER, Assistant Surgeon General, United States Public Health Service.

It is generally stated that *Anopheles* do not breed in deep water or at a distance from shore. This is usually true because (1) such water does not furnish food for the larvæ; (2) they are drowned by wave action; and (3) they are eaten by fish.

In the course of malaria surveys made by the United States Public Health Service near the United States Marine Barracks, Quantico, Va., in September, 1917, the contrary was found to be true.

Examination up to July 29 had shown no production of *Anopheles* in either Quantico or Chappawampsic Creek and no production of *A. quadrimaculatus* anywhere except in pools near the mouth of Creek No. 1. Since this was scanty and had not been found up to July 16, it was feared that this species would appear in Quantico and Chappawampsic Creeks as the season advanced. Being large, these creeks would warm up more slowly and hence breed later than small pools, and this species is not an early breeder.

On September 3 an examination was made of a number of houses at Quantico and *A. quadrimaculatus* were found in them in such number and distribution as to indicate an important source to the northeast of the village. In addition 442 mosquitoes were taken in an isolated group of tents one-third mile distant from the lower part of the Chappawampsic. No other water not under control was within a mile.

Examination of Quantico and Chappawampsic Creeks was made by boat by Mr. Messer of the Virginia State Board of Health and myself. In both creeks there were large masses, acres in extent, of "floatage" over the wild celery (*Vallisneria spiralis*).

This plant was growing in water from 2½ feet to over 6 feet deep and extended in places from one-quarter to possibly one-half mile from shore. Its long blades floated just level with the surface of the water rising and falling with the tide and pointing down the current. The "floatage" was formed mainly of the broken pieces of these blades—they are quite fragile—and an enormous amount of pollen of the same plant; it was then in flower. In a

few places the "floatage" was bound together by a growth of algæ, but mainly adherent without it. In these creeks there was the heaviest breeding of *Anopheles quadrimaculatus* I have ever seen over a large area. The patches of "floatage" were measurable in acres and fractions of an acre rather than in square yards. In Quantico Creek they were at both sides of the channel, but none within 300 feet, say, of the shore. In Chappawampsic Creek they were mainly near the mouth and on the side next to the camp. Here they were within half a mile, maybe less, of the tents in which we found the Anopheles and were most probably their source. Quantico Creek is about a mile wide where this "floatage" was found. Chappawampsic is about $1\frac{1}{2}$ or 2 miles wide at its mouth. We estimated the average number of larvæ per dip at 8, but one dipper took 52. They were of all sizes, and pupæ were also present. In addition to the breeding in this "floatage" there was breeding in some of the lotus beds, where the leaves of this plant fell into the water and adhered together as they decayed. Where the leaf stood up above the water there was no breeding. The same conditions, breeding in floatage in deep water, had been noted on Broad River, S. C., and other places in our work on Impounded Waters, but none so spectacular as this.

In all of these cases the matting of the "floatage" prevented the breaking of the waves, which passed through it in long smooth swells, and furnished a perfect protection against fish. It must also have provided a good food supply.

The problem of the control of this breeding is a very difficult one.

EFFECT OF ANOPHELES PUNCTIPENNIS ON THE NATURAL CONVEYANCE OF MALARIAL FEVER.

By H. R. CARTER, Assistant Surgeon General, United States Public Health Service.

There is no question that *A. punctipennis* is capable of conveying malarial fever. King first (1915) showed that mosquitoes of this species were readily infectible and that the malaria parasite underwent complete sporogenous development in them. Mitzmain later (1916) produced malarial fever in men by the bites of infected mosquitoes of this species. To what extent they convey malaria *in nature*, however, is not determined.

It has been shown (Public Health Bulletin No. 79) that this mosquito is rarely found in residences—houses occupied by men—in the day time. Where both species are breeding to the same extent *A. quadrimaculatus* is found in such houses in far greater numbers than *A. punctipennis*. If this is because *A. punctipennis* do not enter the

residence to feed; it would imply that they are less efficient as vectors of malaria than *A. quadrimaculatus*. It may be, however, that they enter residences at night, feed and leave before morning. Such evidence as we have is against this, but it is not enough to be convincing. It was purposed to determine this point last summer, but owing to the war this study could not be carried out. Indeed, observations to determine the general problem "To what extent is *A. punctipennis* a vector in nature" had been planned from several sides, biological and epidemiological, but were necessarily abandoned when the extra-cantonment work was taken up. The following epidemiological observations, however, bearing on this subject, were made:

A malaria survey was made in August 1917 of Camp Meade, Md., and its environment—about 18 square miles. Eight residences gave a history of malarial fever in 1916 and 1917 at four places. Examination of 74 places breeding *Anopheles* showed 5 of them producing *A. quadrimaculatus* or *A. crucians*. The remaining places were breeding only *A. punctipennis*. *Punctipennis* were also found in three of the other places with the other species.

Note that malaria was reported in houses near all the places producing *Anopheles quadrimaculatus* or *crucians* except one.¹ Of some 300 houses where the malaria history was taken, the great majority of which were near places producing *punctipennis*, only one reported malaria. The country was, as seen from the number of houses, very thickly settled, mainly by whites, and in the part most thickly settled the breeding of *Anopheles* (*punctipennis*) was as general as I have ever seen. I don't mean as profuse, although it was free and in places profuse.

It is obvious that the diagnosis of malaria based on the statements of patients can not be accepted without reserve, but at four of these houses (all near breeding places of *A. quadrimaculatus* or *A. crucians*) the history of repeated chills and fevers, given by intelligent people, was very clear, and Derivaux states that he found a number of such cases (in 1915) near the other place breeding *quadrimaculatus*. The statement of those claiming freedom from malaria can, I think, generally be accepted, as it involved freedom from any kind of sickness. The census of the houses was made by the State board of health, but special inquiries, at five of the houses, were made by myself.

In this locality, then, the production of *A. punctipennis* in large number and adjacent to many white people was not associated with malarial fever, while that of *A. quadrimaculatus* and *A. crucians* was.

This may be correlated with our observations at Greenville, S. C., in 1914 and 1915. In June, August, and September a stream run-

¹ There was a house near this place, but it probably was not visited or there was no one at home when it was visited.

ning through the heart of this town was absolutely swarming with *A. punctipennis* larvæ and the imagos were abundant in culverts, spring inclosures, etc. Yet Greenville was practically free from malaria. There was some malaria, but it was scarcely a sanitary problem. The same was true of Rock Hill, S. C.: a large production of *A. punctipennis* and only a very moderate amount of malaria. The same appears to be true of the country around Atlanta. Grimm, of the Public Health Service, states that in a large number of blood specimens examined at Spartanburg, S. C., during two and one-half years, he failed to find the malaria parasites except in cases that had recently come from malaria sections. Yet Le Prince reports *A. punctipennis* breeding freely in this section last fall, and I think this was true in 1914 also.

During the investigation of impounded waters some country neighborhoods were found with a large number of *punctipennis* and only a moderate amount of malaria, contrasted with communities in which *quadrifasciatus* was prevalent and malaria decidedly common. For instance, a survey of the Valley of Broad River, S. C., from Dawkins to Blair, was made by Griffiths in 1916. *Punctipennis* was breeding freely in all of this section, which, however, was not considered as malarious (measured by the standard of this section) except at the Buckhead Settlement. Here it was prevalent, notoriously so, and here *A. quadrifasciatus* was breeding freely in some large ponds. More imagoes of this species were taken in the first house examined at Buckhead than in the 12 days' work in the *punctipennis* district. Several somewhat similar instances could be given from these investigations. Observations consistent with the above have been made at other places.

I have never found malaria prevalent where only *punctipennis* was breeding, but Brumfield of Virginia has reported quite an outbreak of malaria where this was the only species. There was also a sharp epidemic at Greenville, S. C., in 1912, although whether *punctipennis* was the only form then present is not known.

The above report of conditions about Camp Meade is made so that other men may be encouraged to record observations of similar (or contrasting) conditions, i. e., the relation of the prevalence of *A. punctipennis* to the presence or absence of malarial fevers. The definite determination of the efficiency of this species as a vector *in nature* compared with *A. quadrifasciatus* and *A. crucians*, is of very great importance to the sanitarian. If it is not a vector of serious sanitary importance—for which there is certainly some evidence—we will avoid undertaking the very large amount of work required for the control of its production. Its breeding habits are quite different from those of *A. quadrifasciatus* (and to a lesser degree from those of *A. crucians*) both in character of place and in season, and special

measures are required for the control of this species not needed for the others. Over the whole United States the cost of these and other measures for controlling *punctipennis* would run into many millions each year, which should not be expended if the malaria averted by them—for *punctipennis* unquestionably does convey some malaria—causes less loss than would the expense of averting it. To spend a dollar in sanitation and get less than one hundred cents' benefit is not only bad business, but bad sanitation.

To what extent each of the three species of *Anopheles* most common east of the Rocky Mountains, *A. quadrimaculatus*, *A. crucians*, and *A. punctipennis*, is a factor in the *natural* conveyance of malaria is possibly the most important of our field problems.

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.

EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED APR. 16.

CAMP BEAUREGARD ZONE, LA.

	Cases.
Alexandria:	
Chicken pox.....	1
Malaria.....	1
Measles.....	2
Mumps.....	12
Pellagra.....	1
Smallpox.....	5
Whooping cough.....	1
Pineville:	
Erysipelas.....	1
Smallpox.....	1

CAMP BOWIE ZONE, TEX.

Fort Worth:	
Chicken pox.....	1
Smallpox.....	4
Syphilis.....	1

CAMP DEVENS ZONE, MASS.

Chicken pox:	
Lancaster.....	3
German measles:	
Lunenburg.....	1
Pepperell.....	2
Measles:	
Ayer.....	3
Graniteville.....	18

CAMP DODGE ZONE, IOWA.

Chicken pox:	
Bloomfield Township.....	1
Fort Des Moines.....	1
Diphtheria:	
Bloomfield Township.....	3
Des Moines.....	5
Gonorrhea:	
Des Moines.....	6
Measles:	
Des Moines.....	5
Scarlatina:	
Bloomfield Township.....	1

CAMP DODGE ZONE, IOWA—continued.

Scarlet fever:	Cases.
Bloomfield Township.....	2
Des Moines.....	26
Smallpox:	
Bloomfield Township.....	3
Des Moines.....	13
Fort Des Moines.....	1
Syphilis:	
Des Moines.....	1
Typhoid fever:	
Des Moines.....	1
Whooping cough:	
Des Moines.....	1

CAMP FUNSTON ZONE, KANS.

Measles:	
Manhattan.....	5
Milford.....	10
Riley.....	6
Mumps:	
Junction City.....	2
Manhattan.....	5
Pneumonia:	
Manhattan.....	1
Scarlet fever:	
Junction City.....	1
Manhattan.....	1
Riley.....	5
Smallpox:	
Manhattan.....	1
Milford.....	2
Whooping cough:	
Manhattan.....	1

CAMP GORDON ZONE, GA.

Atlanta:	
Cerebrospinal meningitis.....	1
Chicken pox.....	7
Diphtheria.....	1
German measles.....	2
Gonorrhea.....	3
Measles.....	12

CAMP GORDON ZONE, GA.—continued.

Atlanta—Continued.	Cases.
Mumps.....	18
Pneumonia.....	5
Scarlet fever.....	4
Smallpox.....	1
Syphilis.....	3
Tuberculosis.....	4
Typhoid fever.....	1
Whooping cough.....	1
Chamblée:	
Measles.....	2
Decatur:	
Measles.....	1
East Point:	
Smallpox.....	5

CAMP GREENE ZONE, N. C.

Charlotte Township:	
Chancroid.....	2
Chicken pox.....	2
Gonorrhea.....	12
Measles.....	16
Mumps.....	3
Scarlet fever.....	1
Syphilis.....	13
Tuberculosis.....	3
Whooping cough.....	8

GULFPORT HEALTH DISTRICT, MISS.

Gulfport Health District:	
Cerebrospinal meningitis.....	1
Diphtheria.....	1
Dysentery.....	1
Malaria.....	4
Measles.....	4
Varioloid.....	1
Whooping cough.....	2

CAMP HANCOCK ZONE, GA.

Augusta:	
German measles.....	3
Malaria.....	5
Measles.....	27
Pneumonia, lobar.....	1

Gracewood:	
Measles.....	1

CAMP JACKSON ZONE, S. C.

Columbia:	
Measles.....	5
Mumps.....	3
Whooping cough.....	6

CAMP JOSEPH E. JOHNSTON ZONE, FLA.

Chicken pox:	
Jacksonville.....	2
Dysentery:	
Jacksonville.....	5
Seaboard Air Line Shops.....	1
South Jacksonville.....	1
Fisher's Corner.....	1
Panama Park.....	2
Gonorrhea:	
Jacksonville.....	27
Panama Park.....	1

CAMP JOSEPH E. JOHNSTON ZONE, FLA.—continued.

Hookworm:	Cases.
Seaboard Air Line Shops.....	2
Malaria:	
Jacksonville.....	2
Mandarin.....	1
Measles:	
Jacksonville.....	11
South Jacksonville.....	1
Seaboard Air Line Shops.....	2
Mandarin.....	1
Fisher's Corner.....	1
Mumps:	
Jacksonville.....	7
Pellagra:	
Jacksonville.....	1
Pneumonia:	
Jacksonville.....	4
Syphilis:	
Jacksonville.....	36
Trachoma:	
Jacksonville.....	2
Tuberculosis:	
Jacksonville.....	6
Typhoid fever:	
Jacksonville.....	2
Whooping cough:	
Jacksonville.....	18
Ortega.....	1

FORT LEAVENWORTH ZONE, KANS.

Leavenworth:	
Chicken pox.....	2
Diphtheria.....	2
German measles.....	1
Measles.....	27
Smallpox.....	6
Whooping cough.....	2

Leavenworth County:	
Diphtheria.....	2
Measles.....	4
Pneumonia, lobar.....	1
Smallpox.....	5

CAMP LEE ZONE, VA.

Cerebrospinal meningitis:	
Hopewell.....	1
Chancroid:	
Petersburg.....	1
Chicken pox:	
Ettricks.....	1
Prince George County.....	3
Gonorrhea:	
Petersburg.....	1
Measles:	
Hopewell.....	1
Mumps:	
Ettricks.....	8
Hopewell.....	2
Petersburg.....	3
Pneumonia:	
Ettricks.....	2
Septic sore throat:	
Ettricks.....	2
Petersburg.....	4

CAMP LEE ZONE, VA.—continued.

Tuberculosis:	Cases.
Petersburg.....	3
Whooping cough:	
Ettricks.....	1
Petersburg.....	1
Prince George County.....	1

CAMP LEWIS ZONE, WASH.

German measles:	
Lake City.....	5
Parkland.....	4
Spanaway.....	1
Mumps:	
Du Pont.....	3
Nisqually.....	2
Scarlet fever:	
Du Pont.....	1
Parkland.....	1
Whooping cough:	
Parkland.....	3

CAMP LOGAN ZONE, TEX.

Chancroid:	
Houston.....	1
Chicken pox:	
Houston.....	1
Diphtheria:	
Houston.....	2
Gonorrhea:	
Houston.....	10
Louetta.....	1
Tomball.....	1
Malaria:	
Houston.....	1
Measles:	
Houston.....	24
Spring.....	24
Mumps:	
Houston.....	4
Pneumonia:	
Houston.....	1
Syphilis:	
Beaumont.....	1
Goose Creek.....	1
Houston.....	20
Tuberculosis:	
Houston.....	8
Whooping cough:	
Houston.....	3

CAMP M'ARTHUR ZONE, TEX.

Waco:	
Chicken pox.....	7
German measles.....	1
Measles.....	11
Mumps.....	26
Pneumonia, lobar.....	5
Scarlet fever.....	2
Tuberculosis.....	1
Whooping cough.....	3
Precinct 4:	
Smallpox.....	1

CAMP M'CLELLAN ZONE, ALA.

Chicken pox:	
Anniston.....	3
Measles:	
Anniston.....	4
Mumps:	
Anniston.....	3

CAMP M'CLELLAN ZONE, ALA.—continued.

Pneumonia:	Cases.
Anniston.....	1
Smallpox:	
Anniston.....	6
Oxford.....	1
Precinct 15.....	1
Precinct 22.....	1

NORFOLK COUNTY NAVAL DISTRICT, VA.

Cerebrospinal meningitis:	
Fairmount Park.....	1
South Norfolk.....	1
Diphtheria:	
Norfolk County.....	1
Malaria:	
Gilmerton.....	1
Measles:	
Norfolk.....	8
Portsmouth.....	11
Mumps:	
Ocean View.....	3
Willoughby.....	1
Pneumonia:	
Gilmerton.....	2
Portsmouth.....	3
Scarlet fever:	
Norfolk.....	1
Norfolk County.....	1
Portsmouth.....	1
Smallpox:	
Portsmouth.....	1
Tuberculosis:	
Portsmouth.....	2
Whooping cough:	
Portsmouth.....	4

FORT OGLETHORPE ZONE, GA.

Cerebrospinal meningitis:	
Chattanooga.....	6
Chicken pox:	
Chattanooga.....	1
Measles:	
Chattanooga.....	1
East Lake.....	1
Mumps:	
Chattanooga.....	13
East Lake.....	1
Rossville.....	1
Pneumonia:	
Chattanooga.....	1
Rossville.....	1
Scarlet fever:	
Chattanooga.....	1
Smallpox:	
Chattanooga.....	5
Tuberculosis:	
Chattanooga.....	2
Hixson.....	1
Whooping cough:	
Chattanooga.....	2

CAMP SEVIER ZONE, S. C.

Cerebrospinal meningitis:	
Greenville, suburban.....	1
Measles:	
Greenville, suburban.....	3
Union Blachery.....	8
Typhoid fever:	
American Spinning Co.....	1

CAMP SHELBY ZONE, MISS.

Hattiesburg:	Cases.
German measles.....	1
Malaria.....	7
Measles.....	2
Mumps.....	21
Pneumonia, lobar.....	2
Scarlet fever.....	1
Smallpox.....	2
Tuberculosis, pulmonary.....	1
Venereal.....	9
Whooping cough.....	6

CAMP SHERIDAN ZONE, ALA.

Montgomery:	
Chancroid.....	2
Diphtheria.....	1
Gonorrhea.....	7
Hookworm.....	1
Measles.....	5
Mumps.....	11
Ringworm.....	12
Smallpox.....	4
Syphilis.....	7
Rural district in 5-mile zone:	
Measles.....	1
Mumps.....	1

CAMP SHERMAN ZONE, OHIO.

Gonorrhea:	
Chillicothe.....	1
Measles:	
Chillicothe.....	17
Green Township.....	4
Jefferson Township.....	1
Liberty Township.....	2
Scioto Township.....	2
Mumps:	
Liberty Township.....	2
Scarlet fever:	
Chillicothe.....	6
Huntington Township.....	1
Typhoid fever:	
Chillicothe.....	1

CAMP ZACHARY TAYLOR ZONE, KY.

Jefferson County:	
Diphtheria.....	1
Measles.....	2
Typhoid fever.....	1
Louisville:	
Cerebrospinal meningitis.....	1
Chancroid.....	6
Chicken pox.....	2
Diphtheria.....	7
Gonorrhea.....	26
Measles.....	9
Mumps.....	1
Pneumonia.....	2
Scarlet fever.....	1
Smallpox.....	4
Syphilis.....	25
Tuberculosis, pulmonary.....	12
Typhoid fever.....	2
Whooping cough.....	2

TIDEWATER HEALTH DISTRICT, VA.

Cerebrospinal meningitis:	Cases.
Newport News.....	3
Chicken pox:	
Newport News.....	2
German measles:	
Hampton.....	3
Measles:	
Newport News.....	24
Phoebebus.....	2
Mumps:	
Hampton.....	3
Newport News.....	11
Phoebebus.....	1
Pneumonia:	
Phoebebus.....	1
Scarlet fever:	
Hampton.....	1
Newport News.....	2
Phoebebus.....	3
Smallpox:	
Newport News.....	5
Typhoid fever:	
Hampton.....	1
Newport News.....	1

CAMP TRAVIS ZONE, TEX.

San Antonio:	
Chancroid.....	1
Dysentery.....	1
Gonorrhea.....	18
Influenza.....	2
Malaria.....	1
Measles.....	4
Mumps.....	4
Pneumonia.....	4
Syphilis.....	4
Tuberculosis.....	6

CAMP WADSWORTH ZONE, S. C.

Cerebrospinal meningitis:	
Spartanburg.....	1
Diphtheria:	
Spartanburg.....	1
German measles:	
Spartanburg.....	1
Spartanburg County.....	3
Gonorrhea:	
Pauline.....	1
Measles:	
Saxon Mills.....	3
Spartanburg.....	1
Mumps:	
Spartanburg.....	9
Tuberculosis:	
Whitestone.....	1
Whooping cough:	
Pauline.....	2
Saxon Mills.....	1
Spartanburg.....	2

CAMP WHEELER ZONE, GA.

East Macon:	
Cerebrospinal meningitis.....	1
Mumps.....	2

CAMP WHEELER ZONE, GA.—continued.

Macon:	
Chancroid.....	1
Gonorrhea.....	8
Measles.....	1
Mumps.....	10
Pneumonia.....	2
Scarlet fever.....	2

CAMP WHEELER ZONE, GA.—continued.

Macon—Continued.	
Smallpox.....	1
Syphilis.....	3
Tuberculosis.....	1
Typhoid fever.....	1
South Macon:	
Corebrospinal meningitis.....	1

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General, United States Army, for the week ended April 5, 1918:

Annual admission rate per 1,000 (disease only):

All troops.....	1,685.1
National Guard camps.....	1,478.3
National Army camps.....	1,943.7
Regular Army.....	1,518.5

Noneffective rate per 1,000 on day of report:

All troops.....	47.8
National Guard camps.....	41.4

Noneffective rate per 1,000 on day of report—Continued.

National Army camps.....	54.3
Regular Army.....	43.5

Annual death rate per 1,000 (disease only):

All troops.....	11.6
National Guard camps.....	5.9
National Army camps.....	14.1
Regular Army.....	13.6

New cases of special disease reported during the week ended Apr. 5, 1918.

Camps.	Pneumonia.	Dysentery.	Malaria.	Venereal.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admission rate per 1,000 (disease only).	Noneffective per 1,000 on day of report.
Wadsworth.....	5			14	5		2	4	1,313.9	28.9
Hancock.....	7		1	8	3	1	1	4	472.1	26.4
McJellian.....	4		2	15	1			1	904.2	30.3
Sevier.....	7			23	5	1		3	1,639.3	37.7
Wheeler.....	6		7	32				2	1,159.2	38.7
Logan.....	9		2	40	6			2	1,674.3	44.1
Cody.....	14			4	1			10	1,208.3	32.3
Doniphan.....	17			12				6	2,007.6	43.1
Bowie.....	32			70				5	4,174.6	78.2
Sheridan.....	5			57	8		1	1	811.9	28.4
Shelby.....	5		2	12				1	1,132.3	50.8
Beauregard.....	2		16	38	1	1		3	1,361.6	53.1
Kearney.....			1	1					1,186.5	45.9
Devens.....	28			65	6	1	2	6	1,628.5	43.0
Upton.....	16			74	8		15	9	919.5	27.7
Dix.....	6			50	10		7	7	1,264.8	38.3
Meade.....	4			7	13		4	2	547.7	30.2
Lee.....	12			495	9	1		1	1,911.6	54.8
Jackson.....	20		4	357	32	4		8	1,714.4	52.0
Gordon.....	8		1	142	14	1	1	2	1,630.3	41.6
Sherman.....	10			81	5		21	7	1,632.7	53.5
Taylor.....	30			43	87			13	2,062.7	69.7
Custer.....	11			116	5		14	16	2,295.1	39.0
Grant.....	4			11	11	6		5	802.4	26.0
Pike.....	29			79	14	1	8	17	2,851.8	74.4
Dodge.....	33			99	24	1	15	26	3,093.7	106.5
Funston.....	19		1	109	16	2	6	10	1,702.5	76.2
Travis.....	35	1	5	41	44	1	1	6	3,772.9	72.7
Lewis.....	15			167	19		23	1	4,100.6	87.0
Northeastern Department.....	2			22			1	3	2,200.0	44.4
Eastern Department.....	9		2	20	14		1	2	1,108.2	33.0
Southeastern Department.....	3		1	21	27		2	6	1,561.7	45.8
Central Department.....	29	1		39	17		15	13	1,907.4	47.7
Southern Department.....	28		1	80	13	3	7	8	1,988.6	59.3
Western Department.....	5			25	14		4	4	1,414.6	30.4
Aviation, S. C.....	45	1	5	104	70	8	42	27	1,608.4	41.3
Camp Greene.....	9	1	3	39	22	1	2	3	745.3	26.1
Camp Fremont.....	2		2	32	18			2	1,361.8	57.4
El Paso.....	1			11	5				989.2	7.2
Columbus Barracks.....	7			7	1		1	4	1,855.3	63.3
Jefferson Barracks.....	14			35	10		8	8	2,394.7	110.3
Fort Logan.....	9			2			7	7	1,937.4	78.2

New cases of special disease reported during the week ended Apr. 5, 1918—Continued.

Camps.	Pneumonia.	Dysentery.	Malaria.	Venereal.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admission rate per 1,000 (disease only).	Non-effective per 1,000 on day of report.
Fort McDowell.....				2	7			2	1,709.4	50.9
Fort Slocum.....	5			11	2				1,113.6	41.6
Disciplinary Barracks, Fort Leavenworth.....				1				4	1,440.1	40.3
A. A. Humphreys.....	1			2					577.8	7.4
J. E. Johnston.....	4			49	8	1		2	1,440.4	41.4
Camp Merritt.....	20	1	4	90	4		5	10	1,636.4	56.0
Camp Stuart.....	31			68	12	2	1	11	1,411.8	55.5
West Point, N. Y.....				2	1				1,000.6	14.2
Edgewood-Aberdeen.....	1				8		4		1,481.3	34.9
Provision depot for corps and Army troops.....	7			7	49		1	2	2,235.3	46.5
Camp Holabird.....				1						
Camp Karitan.....					2				1,064.7	21.2
Fort Thomas.....	4			4	2			1	3,234.6	79.5
National Guard in departments.....	3			15	11			1		
National Army in departments.....	13		2	160	50	1	40	5		
Total.....	643	5	62	3,113	714	37	269	296	1,685.1	47.8

¹ All troops.*Annual rate per 1,000 for special diseases.*

Disease.	All troops in United States. ¹	Regulars in United States. ¹	National Guard, all camps. ¹	National Army, all camps. ¹	Expeditionary Forces. ²
Pneumonia.....	26.6	29.1	18.4	31.1	40.4
Dysentery.....	0.3	0.5	0.0	0.1	0.5
Malaria.....	2.7	2.2	5.1	1.2	0.0
Venereal.....	128.9	83.3	54.0	215.0	48.7
Paratyphoid fever.....	0.0	0.0	0.0	0.0	0.0
Typhoid fever.....	0.04	0.0	0.0	0.0	0.0
Measles.....	29.5	37.7	5.0	35.2	9.2
Meningitis.....	1.5	1.8	0.5	2.0	1.7
Scarlet fever.....	11.1	10.0	1.8	13.0	15.2

¹ Week ended Apr. 5, 1918.² Week ended Mar. 28, 1918.**CURRENT STATE SUMMARIES.****Connecticut.**

From Collaborating Epidemiologist Black, by telegraph, for week ended April 13, 1918:

Cerebrospinal meningitis: Bridgeport 1, Waterbury 2.

Illinois.

From Collaborating Epidemiologist Drake, by telegraph, for week ended April 13, 1918:

Smallpox: One hundred and three; of which Chicago 4, Honeypoint Township, Macoupin County 5, Alton 22, Peoria 13, Quincy 16, Belleville 5, East St. Louis 8. Scarlet fever: One hundred and six; of which Chicago 49. Meningitis: Chicago 12, Wheaton 1, Winfield Township, Dupage County 1, West Warren Township, Williamson County 1, Virden 4, Minook Township, Woodford County 2. Poliomyelitis: Chicago 6, Beardstown 1.

Indiana.

From the State Board of Health of Indiana, by telegraph, for week ended April 13, 1918:

Smallpox: Epidemic Crown Point, Rushville. Measles: Epidemic Wawaka. Scarlet fever: Epidemic Newcasttle. Epidemic meningitis: Two cases Charleston, Clark County. La Grippe: Epidemic Fort Wayne, Anderson, Muncie.

Kansas.

From Collaborating Epidemiologist Crumbine, by telegraph, for week ended April 13, 1918:

Meningitis: McLouth 1. Smallpox (10 or more cases): By counties—Brown 15, Butler 15, Decatur 10, Reno 27, Seward 11, Woodson 10; by cities—Kansas City 20, Wichita 18, Ottawa 12, Pottawatomie 10. Scarlet fever (over 10 cases): Riley County 11, Topeka city 20. Scarlatina prevalent over entire State.

Louisiana.

From Collaborating Epidemiologist Dowling, by telegraph, for week ended April 13, 1918:

Meningitis (excluding Rapides Parish): De Soto Parish 1.

Massachusetts.

From Collaborating Epidemiologist Hitchcock, by telegraph, for week ended April 13, 1918:

Unusual prevalence. Diphtheria: Malden, 17. German measles: Brookline, 45; Chelmsford, 8; Mansfield, 23; Manchester, 10; Rockland, 12. Measles: Brookline, 34; Chelsea, 38; Haverhill, 50; Waltham, 58. Scarlet fever: Colerain, 7.

Minnesota.

From Collaborating Epidemiologist Bracken, by telegraph, for week ended April 13, 1918:

Smallpox (new foci): Lyon County, Stanley Township, 1; Mower County, Austin Township, 1; Norman County, Strand Township, 3; Renville County, Bandon Township, 3.

Nebraska.

From the State Board of Health of Nebraska, by telegraph, for week ended April 13, 1918:

Poliomyelitis: One case, Tilden. Typhoid fever: One case, Davenport. Smallpox: Red Cloud, Emerson, Henderson, Broken Bow, Scottsbluff, Atkinson, Upland, Humphrey, Omaha, Lincoln, Tecumseh, Antioch, Holland, Brewster, Murdock, Tamora, Culbertson, Wayne. Scarlet fever: Pakmer, Omaha, Emerson, License. Measles: Scottsbluff, Omaha, Bee, Leigh. Diphtheria: Shelby, Geneva. German measles: Lyons. Septic sore throat: Lyons.

New Jersey.

From Collaborating Epidemiologist Bowen, by telegraph, for week ended April 13, 1918:

Unusual prevalence. Measles: East Orange, Bayonne, Paterson. Whooping cough: Paterson.

South Carolina.

From Collaborating Epidemiologist Hayne, by telegraph, for week ended April 15, 1918:

Epidemic meningitis: Six cases week ended 15th.

Virginia.

From Collaborating Epidemiologist Traynham, by telegraph, for week ended April 13, 1918:

Smallpox: By counties—Pulaski 12, Lee 1, Smyth 1, Caroline 2, Russell several, Spottsylvania several, Middlesex 1, Wise 1, Pittsylvania 1, Carroll 16, Suffolk 1, Newport News city 6. Cerebrospinal meningitis: By counties—Lunenburg 1, Prince William 1, Sussex 2, Roanoke 1, Prince George 1, Norfolk 1; Newport News city 4, Richmond city 1. Poliomyelitis: By counties—Accomac 1, Mecklenburg 1.

Washington.

From Collaborating Epidemiologist Tuttle, by telegraph, for week ended April 13, 1918:

Unusual prevalence. Scarlet fever: Prevalent Kent, King County. Smallpox: Thirteen cases in quarantine at Arlington, Snohomish County. Scarlet fever: Twenty-nine cases in Tacoma.

CEREBROSPINAL MENINGITIS.**State Reports for February and March, 1918.**

Place.	New cases reported.	Place.	New cases reported.
Maryland (Mar. 1-31):		North Carolina (Feb. 1-28):	
Baltimore.....	27	Cherokee County.....	3
Anne Arundel County.....	1	Cumberland County.....	1
Shipley.....	1	Currituck County.....	1
Baltimore County—		Durham County.....	1
St. Helena.....	1	Franklin County.....	1
Hamilton.....	1	Gaston County.....	5
Catonsville.....	1	Guilford County.....	2
Highlandtown.....	1	Halifax County.....	1
Montgomery County—		Haywood County.....	1
Bethesda.....	2	Henderson County.....	1
Total.....	35	Johnston County.....	1
		Martin County.....	1
New York (Mar. 1-31):		Mecklenburg County.....	2
Albany County.....	9	Montgomery County.....	1
Cattaraugus County.....	1	Pasquotank County.....	1
Cortland County.....	1	Pitt County.....	1
Dutchess County.....	1	Randolph County.....	1
Erie County.....	6	Richmond County.....	1
Niagara County.....	1	Yadkin County.....	1
Oneida County.....	1	Total.....	27
Rensselaer County.....	6		
Schenectady County.....	1	Vermont (Mar. 1-31):	
Westchester County.....	2	Chittenden County.....	1
Total.....	29	Rutland County.....	1
		Total.....	2

CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Amarillo, Tex.	2	—	Malden, Mass.	—	—
Ann Arbor, Mich.	1	—	Manitowoc, Wis.	1	—
Atlanta, Ga.	2	1	Marion, Ind.	1	—
Atlantic City, N. J.	1	—	McKeesport, Pa.	2	—
Augusta, Ga.	1	2	Memphis, Tenn.	2	1
Baltimore, Md.	9	5	Milwaukee, Wis.	1	2
Beaumont, Tex.	—	1	Nashville, Tenn.	1	—
Birmingham, Ala.	3	—	Newark, N. J.	4	1
Boston, Mass.	3	2	New London, Conn.	1	1
Buffalo, N. Y.	3	1	New York, N. Y.	19	11
Charleston, S. C.	2	1	Petersburg, Va.	1	1
Charleston, W. Va.	1	1	Philadelphia, Pa.	7	4
Charlotte, N. C.	1	—	Pittsburgh, Pa.	2	—
Chelsea, Mass.	1	1	Poughkeepsie, N. Y.	1	—
Chicago, Ill.	5	4	Providence, R. I.	1	1
Cincinnati, Ohio.	—	2	Richmond, Va.	2	1
Cleveland, Ohio.	3	1	St. Louis, Mo.	2	—
Coffeyville, Kans.	4	1	San Diego, Cal.	2	3
Detroit, Mich.	—	1	San Francisco, Cal.	2	2
Elizabeth, N. J.	2	—	Savannah, Ga.	3	1
Evansville, Ind.	1	—	Shelbyville, Ind.	—	2
Indianapolis, Ind.	2	2	Springfield, Ohio.	1	1
Kansas City, Kans.	2	1	Tacoma, Wash.	1	—
La Crosse, Wis.	1	1	Wichita, Kans.	2	—
Lexington, Ky.	—	1	Wilkes-Barre, Pa.	2	1
Los Angeles, Cal.	2	1	Winston-Salem, N. C.	2	2
Louisville, Ky.	4	1	Worcester, Mass.	2	—
Lowell, Mass.	1	1	York, Pa.	1	1

DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 591.

ERYSIPELAS.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.	1	—	Marshall, Tex.	1	—
Baltimore, Md.	4	1	Milwaukee, Wis.	2	—
Billings, Mont.	2	—	Minneapolis, Minn.	—	2
Bridgeport, Conn.	2	—	Mobile, Ala.	—	1
Brockton, Mass.	1	—	Newark, N. J.	2	—
Buffalo, N. Y.	4	—	New Castle, Pa.	1	—
Butler, Pa.	1	—	Newton, Mass.	—	1
Charlotte, N. C.	—	1	New York, N. Y.	—	12
Chicago, Ill.	18	2	Oklahoma City, Okla.	2	—
Colorado Springs, Colo.	—	1	Omaha, Nebr.	1	—
Concord, N. H.	—	1	Peoria, Ill.	1	1
Denver, Colo.	6	—	Pawtucket, R. I.	—	1
Detroit, Mich.	6	—	Philadelphia, Pa.	7	—
Duluth, Minn.	2	—	Pittsburgh, Pa.	8	1
Flint, Mich.	2	—	Pittsfield, Mass.	—	1
Fort Worth, Tex.	1	1	Portland, Oreg.	4	—
Harrisburg, Pa.	2	—	Quincy, Mass.	—	1
Hartford, Conn.	1	—	Reading, Pa.	2	—
Jackson, Mich.	1	1	Rochester, N. Y.	9	—
Lancaster, Pa.	1	—	Sacramento, Cal.	1	—
Leavenworth, Kans.	—	1	St. Joseph, Mo.	1	—
Lexington, Ky.	—	1	St. Louis, Mo.	10	3
Lincoln, Nebr.	1	—	San Francisco, Cal.	9	1
Los Angeles, Cal.	6	—	Seattle, Wash.	2	—
Louisville, Ky.	5	—	Weeling, W. Va.	1	—
Malden, Mass.	—	1	Wichita, Kans.	2	—
Manitowoc, Wis.	1	—			

MALARIA.

Maryland Report for March, 1918.

During the month of March, 1918, cases of malaria were reported in Maryland as follows: Caroline County, Hillsboro, 1; Worcester County, Girdletree, 1.

MALARIA—Continued.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....	2	-----	Newark, N. J.....	1	-----
Hattiesburg, Miss.....	1	-----	Newcastle, Ind.....	1	-----
Little Rock, Ark.....	5	-----	New Orleans, La.....	1	-----
Marshall, Tex.....	1	-----	New York, N. Y.....	-----	1

MEASLES.

Alaska—Ketchikan.

During the period from April 1 to 6, 1918, 16 cases of measles were notified at Ketchikan, Alaska.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 591.

PELLAGRA.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Abilene, Tex.....	1	-----	Little Rock, Ark.....	-----	2
Atlanta, Ga.....	-----	2	Marshall, Tex.....	1	-----
Birmingham, Ala.....	2	4	Milwaukee, Wis.....	-----	1
Cambridge, Mass.....	1	-----	Mobile, Ala.....	1	-----
Charleston, S. C.....	-----	1	Petersburg, Va.....	1	-----
Dallas, Tex.....	2	-----	Spartanburg, S. C.....	3	-----
Hattiesburg, Miss.....	1	-----	Wilmington, N. C.....	-----	1

PNEUMONIA.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.....	1	-----	Harrison, N. J.....	4	-----
Altoona, Pa.....	5	-----	Hattiesburg, Miss.....	1	-----
Amarillo, Tex.....	1	-----	Haverhill, Mass.....	7	2
Ann Arbor, Mich.....	1	-----	Holyoke, Mass.....	10	4
Anniston, Ala.....	1	-----	Houston, Tex.....	5	4
Atlanta, Ga.....	2	11	Jamestown, N. Y.....	3	-----
Auburn, N. Y.....	6	2	Kalamazoo, Mich.....	2	1
Baltimore, Md.....	96	31	Kansas City, Kans.....	15	-----
Battle Creek, Mich.....	1	-----	Lancaster, Pa.....	1	-----
Boston, Mass.....	27	31	Lawrence, Mass.....	3	4
Braddock, Pa.....	7	-----	Leavenworth, Kans.....	2	-----
Bridgeport, Conn.....	6	29	Lexington, Ky.....	2	8
Brockton, Mass.....	4	-----	Lincoln, R. I.....	1	-----
Brookline, Mass.....	2	-----	Little Rock, Ark.....	9	1
Cambridge, Mass.....	3	1	Long Beach, Cal.....	1	-----
Charleston, W. Va.....	3	3	Los Angeles, Cal.....	25	10
Chelsea, Mass.....	4	3	Louisville, Ky.....	2	13
Chicago, Ill.....	400	158	Lynn, Mass.....	10	5
Chicopee, Mass.....	3	4	Macon, Ga.....	5	3
Cleveland, Ohio.....	60	42	Manitowoc, Wis.....	1	1
Clinton, Mass.....	2	3	Marshall, Tex.....	1	-----
Dayton, Ohio.....	5	5	McKeesport, Pa.....	1	-----
Detroit, Mich.....	19	49	Melrose, Mass.....	2	1
Elmira, N. Y.....	4	1	Morgantown, W. Va.....	1	-----
Elwood, Ind.....	1	1	Muskegon, Mich.....	2	2
Everett, Mass.....	2	-----	Nashville, Tenn.....	1	8
Fall River, Mass.....	2	1	Newark, N. J.....	175	49
Flint, Mich.....	10	13	New Bedford, Mass.....	4	2
Fort Worth, Tex.....	11	11	New Britain, Conn.....	4	3
Fresno, Cal.....	1	-----	New Castle, Ind.....	1	1
Grand Forks, N. Dak.....	1	-----	New Castle, Pa.....	1	-----
Grand Rapids, Mich.....	6	1	Newport, Ky.....	4	4
Hammend, Ind.....	2	2	Newton, Mass.....	2	1

PNEUMONIA—Continued.**City Reports for Week Ended Mar. 30, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Northampton, Mass.....	1	.....	Saginaw, Mich.....	1	1
Norwalk, Conn.....	3	2	St. Joseph, Mo.....	3	5
Oakland, Cal.....	5	.....	Salem, Mass.....	1	.....
Oak Park, Ill.....	1	2	Sandusky, Ohio.....	1	.....
Oklahoma City, Okla.....	1	1	San Francisco, Cal.....	16	16
Parkersburg, W. Va.....	4	2	Schenectady, N. Y.....	7	4
Philadelphia, Pa.....	150	96	Somerville, Mass.....	5	4
Pittsburgh, Pa.....	49	66	Springfield, Mass.....	18	7
Pittsfield, Mass.....	2	.....	Steelton, Pa.....	3	3
Pontiac, Mich.....	10	1	Taunton, Mass.....	2	1
Providence, R. I.....	1	12	Toledo, Ohio.....	2	4
Quincy, Mass.....	1	3	Topeka, Kans.....	1	5
Reno, Nev.....	1	.....	Washington, Pa.....	1	.....
Richmond, Va.....	3	7	Wichita, Kans.....	8	2
Rochester, N. Y.....	33	9	Worcester, Mass.....	17	6
Rutland, Vt.....	1	1	Yonkers, N. Y.....	12	3
Sacramento, Cal.....	3	1	York, Pa.....	2	.....

POLIOMYELITIS (INFANTILE PARALYSIS).**State Reports for March, 1918.**

During the month of March, 1918, 1 case of poliomyelitis was reported at Baltimore, Md., 1 case in St. Lawrence County, N. Y., and 1 case in Henderson County, N. C.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ablene, Tex.....	1	.....	Oak Park, Ill.....	1	.....
Hartford, Conn.....	1	.....	Racine, Wis.....	1	.....
Newark, N. J.....	4	1	Richmond, Va.....	1	.....
New York, N. Y.....	5	3	Springfield, Ill.....	.....	1

RABIES IN ANIMALS.**City Reports for Week Ended Mar. 30, 1918.**

During the week ended March 30, 1918, there was one case of rabies in animals reported at each of the following places: Akron, Ohio; Charlotte, N. C.; and Evansville, Ind.

RABIES IN MAN.**City Report for Week Ended Mar. 30, 1918.**

During the week ended March 30, 1918, there were reported at Ogden, Utah, 1 case and 1 death from rabies in man.

SCARLET FEVER.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 591.

SMALLPOX.**Oklahoma—Lawton.**

On April 10, 1918, 15 cases of smallpox were reported in quarantine at Lawton, Okla.

SMALLPOX—Continued.

State Reports for March, 1918.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Maryland:						
Baltimore.....	10			1	9	
Allegany County—						
Cumberland.....	1				1	
Anne Arundel County—						
Brooklyn, R. F. D.....	2			1	1	
Baltimore County—						
Highlandtown.....	1				1	
Dorchester County—						
Cambridge.....	1				1	
Harford County.....	2				2	
Total.....	17			2	15	
New York:						
Chautauqua County—						
Dunkirk.....	1			1		
Chemung County—						
Elmira.....	1					1
Eric County—						
Buffalo.....	10					10
East Hamburg.....	1				1	
Genesee County—						
Batavia.....	3				3	
Herkimer County—						
Ilion.....	1				1	
Mohawk.....	2		1		1	
Frankfort.....	1			1	1	
Oneida County—						
Rome.....	4				4	
Utica.....	7			3	4	
Clayville.....	1				1	
St. Lawrence County—						
Brasher.....	1				1	
Schenectady County—						
Schenectady.....	1					1
Seneca County—						
Covert.....	3			1	2	
Interlaken.....	3			1	2	
Lodi.....	1					1
Wyoming County—						
Warsaw.....	1				1	
Total.....	42		1	7	21	13

Miscellaneous State Reports.

Place.	New cases reported.	Place.	New cases reported.
North Carolina (Feb. 1-28):		North Carolina (Feb. 1-28)—Continued.	
Alamance County.....	1	Swain County.....	2
Anson County.....	1	Iredell County.....	3
Buncombe County.....	4	Surry County.....	1
Cabarrus County.....	3	Jackson County.....	35
Catawba County.....	2	Johnston County.....	1
Chatham County.....	1	Stanly County.....	19
Cherokee County.....	1	Lee County.....	4
Cleveland County.....	1	Lincoln County.....	1
Cumberland County.....	1	Scotland County.....	1
Durham County.....	1	Martin County.....	1
Edgecombe County.....	10	Mc owell County.....	2
Forsyth County.....	2	Mecklenburg County.....	2
Gaston County.....	3	Pitt County.....	2
Graham County.....	4	Richmond County.....	1
Harnett County.....	8	Robeson County.....	11
Henderson County.....	2	Rockingham County.....	6

SMALLPOX—Continued.

Miscellaneous State Reports—Continued.

Place.	New cases reported.	Place.	New cases reported.
North Carolina (Feb. 1-28)—Continued.		Vermont (Mar. 1-31):	
Rowan County.....	5	Essex County.....	1
Rutherford County.....	21	Orleans County.....	2
Wake County.....	2	Rutland County.....	2
Wayne County.....	1	Washington County.....	2
Yancey County.....	2	Windsor County.....	1
Total.....	168	Total.....	8

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Abilene, Tex.....	8	.....	Keokuk, Iowa.....	1	.....
Akron, Ohio.....	65	.....	Knoxville, Tenn.....	2	.....
Alton, Ill.....	34	.....	La Crosse, Wis.....	4	.....
Amarillo, Tex.....	20	.....	Lansing, Mich.....	6	.....
Anderson, Ind.....	8	.....	Leavenworth, Kans.....	3	.....
Anniston, Ala.....	17	.....	Lima, Ohio.....	44	.....
Atlanta, Ga.....	7	.....	Lincoln, Nebr.....	12	.....
Atlantic City, N. J.....	2	.....	Little Rock, Ark.....	13	.....
Baltimore, Md.....	2	.....	Lorain, Ohio.....	1	.....
Bedford, Ind.....	4	.....	Los Angeles, Cal.....	6	.....
Bellingham, Wash.....	1	.....	Louisville, Ky.....	4	.....
Billings, Mont.....	1	.....	Macon, Ga.....	3	.....
Birmingham, Ala.....	40	.....	Madison, Wis.....	3	.....
Bloomington, Ind.....	8	.....	Marion, Ind.....	1	.....
Burlington, Iowa.....	2	.....	Marshall, Tex.....	3	.....
Butte, Mont.....	4	.....	Memphis, Tenn.....	22	.....
Canton, Ohio.....	4	.....	Michigan City, Ind.....	10	.....
Cedar Rapids, Iowa.....	6	.....	Milwaukee, Wis.....	10	.....
Charleston, W. Va.....	2	.....	Minneapolis, Minn.....	8	.....
Charlotte, N. C.....	6	.....	Mishawaka, Ind.....	1	.....
Chattanooga, Tenn.....	3	.....	Missoula, Mont.....	1	.....
Chicago, Ill.....	15	.....	Moline, Ill.....	1	.....
Chillicothe, Ohio.....	4	.....	Montgomery, Ala.....	2	.....
Cincinnati, Ohio.....	12	.....	Morgantown, W. Va.....	1	.....
Cleveland, Ohio.....	29	.....	Muncie, Ind.....	3	.....
Coffeyville, Kans.....	7	.....	Muskogee, Okla.....	9	.....
Colorado Springs, Colo.....	2	.....	Nashville, Tenn.....	4	.....
Columbus, Ohio.....	9	.....	Newark, N. J.....	1	.....
Council Bluffs, Iowa.....	12	.....	Newcastle, Ind.....	1	.....
Cumberland, Md.....	1	.....	New Orleans, La.....	12	.....
Dallas, Tex.....	15	.....	New York, N. Y.....	6	.....
Danville, Ill.....	2	.....	Oakland, Cal.....	1	.....
Davenport, Iowa.....	1	.....	Ogden, Utah.....	1	.....
Dayton, Ohio.....	7	.....	Oklahoma City, Okla.....	31	.....
Decatur, Ill.....	1	.....	Omaha, Neb.....	49	.....
Denver, Colo.....	26	.....	Peoria, Ill.....	8	.....
Des Moines, Iowa.....	20	.....	Philadelphia, Pa.....	8	.....
Detroit, Mich.....	23	.....	Pontiac, Mich.....	3	.....
Dubuque, Iowa.....	2	.....	Portland, Oreg.....	1	.....
Duluth, Minn.....	4	.....	Quincy, Ill.....	15	.....
El Paso, Tex.....	2	.....	Richmond, Ind.....	1	.....
Elwood, Ind.....	1	.....	Roanoke, Va.....	3	.....
Evansville, Ind.....	2	.....	St. Joseph, Mo.....	29	.....
Fargo, N. Dak.....	2	.....	St. Louis, Mo.....	15	.....
Flint, Mich.....	9	.....	Salt Lake City, Utah.....	18	.....
Fort Wayne, Ind.....	12	.....	San Francisco, Cal.....	1	.....
Fort Worth, Tex.....	32	.....	Seattle, Wash.....	3	.....
Galesburg, Ill.....	2	.....	Shelbyville, Ind.....	2	.....
Grand Forks, N. Dak.....	2	.....	Sioux City, Iowa.....	10	.....
Grand Rapids, Mich.....	6	.....	South Bend, Ind.....	2	.....
Greeley, Colo.....	2	.....	Spartanburg, S. C.....	2	.....
Hammond, Ind.....	1	.....	Spokane, Wash.....	12	.....
Harrisburg, Pa.....	3	.....	Springfield, Ill.....	4	.....
Hattiesburg, Miss.....	1	.....	Springfield, Ohio.....	1	.....
Independence, Kans.....	5	.....	Terre Haute, Ind.....	12	.....
Indianapolis, Ind.....	49	.....	Toledo, Ohio.....	6	.....
Kalamazoo, Mich.....	2	.....	Topeka, Kans.....	10	.....
Kansas City, Kans.....	23	.....	Wichita, Kans.....	26	.....
Kenosha, Wis.....	4	.....	Winston-Salem, N. C.....	1	.....

TETANUS.

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....		1	McKeesport, Pa.....	1	
Charleston, S. C.....	1	1	Minneapolis, Minn.....		1
Corpus Christi, Tex.....	1	1	New York, N. Y.....	1	1
Fall River, Mass.....	1	1	Portsmouth, Va.....		1
Lexington, Ky.....		1	Wilmington, N. C.....		1

TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 591.

TYPHOID FEVER.

State Reports for February and March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Maryland (Mar. 1-31):	—	New York (Mar. 1-31)—Continued.	
Baltimore.....	22	Clinton County—	
Allegany County—		Plattsburg.....	1
National.....	1	Columbia County—	
Cresaptown.....	1	Kinderhook (town).....	1
Westernport.....	1	Germanatown (town).....	1
Cumberland.....	1	Dutchess County—	
Franklin.....	1	Poughkeepsie (town).....	2
Lonaconing.....	1	Erie County—	
Western Maryland Hospital.....	2	Buffalo.....	7
Anne Arundel County—		Tonawanda.....	1
Annapolis.....	1	Elma (town).....	3
Baltimore County—		Angola.....	1
Highlandtown.....	14	Essex County—	
Sparrows Point.....	2	Ticonderoga (town).....	2
Catonsville.....	1	Franklin County—	
Reisterstown.....	1	Westville (town).....	1
Guilford.....	2	Malone (town).....	2
Gardenville.....	1	Fort Covington (town).....	1
St. Agnes Hospital.....	1	Genesee County—	
Caroline County—		Batavia.....	3
Ridgely.....	2	Greene County—	
Dorchester County—		Catskill.....	1
Reids Grove.....	1	Greenville (town).....	1
Frederick County—		Jefferson County—	
Brunswick.....	2	Watertown.....	1
Libertytown.....	1	Alexandria Bay.....	2
Garrett County—		Brownville (town).....	2
Kempton.....	1	Wilna (town).....	3
Oakland.....	1	Henderson (town).....	1
Grantsville.....	2	Cape Vincent.....	1
Howard County—		Madison County—	
Elkridge.....	1	Georgetown (town).....	1
Prince Georges County—		Montgomery County—	
Riverdale.....	1	Amsterdam.....	1
Somerset County—		Niagara County—	
Pocomoke City.....	1	North Tonawanda.....	3
Washington County—		Lockport.....	4
Brownsville.....	1	Niagara Falls.....	1
Hagerstown.....	2	Oneida County—	
Wicomico County—		Augusta (town).....	2
Salisbury.....	2	Onondaga County—	
Total.....	71	Syracuse.....	6
New York (Mar. 1-31):		Clay (town).....	2
Albany County—		Minoa.....	1
Albany.....	8	Ontario County—	
Watervliet.....	1	Geneva.....	1
Ravena.....	1	Orange County—	
Coeymans (town).....	2	Newburgh.....	10
Green Island.....	1	Montgomery (town).....	3
Cattaraugus County—		Hamptonburg (town).....	1
Franklinville.....	1	Oswego County—	
Cattaraugus.....	1	Hannibal (town).....	1
Chemung County—		Otsego County—	
Elmira.....	2	Oneonta.....	1
Southport (town).....	7	Rensselaer County—	
		Troy.....	6

TYPHOID FEVER—Continued.

State Reports for February and March, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
New York Mar. 1-31—Continued.		New York Mar. 1-31—Continued.	
St. Lawrence County—		Westchester County—	
Massena.....	1	Yonkers.....	1
De Kalb (town).....	1	Yates County—	
Saratoga County—		Jerusalem (town).....	1
Mechanicsville.....	4	Rushville.....	1
Schenectady County—		Starkey (town).....	1
Schenectady.....	2	Total.....	138
Schoharie County—			
Cobleskill.....	1	North Carolina (Feb. 1-28):	
Seneca County—		Avery County.....	4
Seneca Falls.....	3	Columbus County.....	1
Steuben County—		Davidson County.....	1
Corning.....	1	Durham County.....	2
Suffolk County—		Lenoir County.....	1
Huntington (town).....	2	Lincoln County.....	1
Sullivan County—		Martin County.....	1
Callicoon (town).....	1	Montgomery County.....	1
Thompson (town).....	1	Robeson County.....	1
Fallsburg (town).....	1	Rutherford County.....	1
Tioga County—		Sampson County.....	1
Candor.....	1	Swain County.....	1
Ulster County—		Vance County.....	1
Kingston.....	2	Wake County.....	2
Marlborough (town).....	4	Washington County.....	1
Shawangunk (town).....	2	Wilson County.....	1
Warren County—		Total.....	21
Glens Falls.....	1		
Hague (town).....	1		

City Reports for Week Ended Mar. 30, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Amarillo, Tex.....	1	1	Milwaukee, Wis.....	8	1
Atlanta, Ga.....	2		Minneapolis, Minn.....	20	4
Augusta, Ga.....	1	1	Moline, Ill.....	2	
Austin, Tex.....	1	1	Nashville, Tenn.....	1	
Baltimore, Md.....	7		Newark, N. J.....	6	
Birmingham, Ala.....	2	2	New Bedford, Mass.....	2	
Boston, Mass.....	1		New Britain, Conn.....	1	
Buffalo, N. Y.....	1	1	Newburgh, N. Y.....	1	
Charleston, W. Va.....	1		New Orleans, La.....	3	1
Chicago, Ill.....	1	1	New York, N. Y.....	7	3
Cincinnati, Ohio.....	1		Parkersburg, W. Va.....	1	
Corpus Christi, Tex.....	1	1	Philadelphia, Pa.....	6	
Covington, Ky.....	1		Pittsburgh, Pa.....	2	
Davenport, Iowa.....	1		Pontiac, Mich.....		1
Detroit, Mich.....	2	2	Reading, Pa.....		1
Dubuque, Iowa.....	1		Rockford, Ill.....	2	
Elizabeth, N. J.....	1		Rutland, Vt.....	1	
Elmira, N. Y.....	2		Saginaw, Mich.....	2	
Fall River, Mass.....	1		St. Louis, Mo.....	1	
Flint, Mich.....		1	Salt Lake City, Utah.....	1	
Grand Rapids, Mich.....	6		San Francisco, Cal.....	5	
Hammond, Ind.....	2	1	Steubenville, Ohio.....	1	
Hoboken, N. J.....	1	1	Syracuse, N. Y.....	1	1
Indianapolis, Ind.....	1		Toledo, Ohio.....	2	
Jackson, Mich.....	1		Trenton, N. J.....	1	1
Johnstown, Pa.....		1	Troy, N. Y.....	1	
Little Rock, Ark.....	1		Washington, Pa.....	1	
Long Branch, N. J.....	2		Wheeling, W. Va.....	1	
Los Angeles, Cal.....	2	1	Wilkinsburg, Pa.....	3	
Louisville, Ky.....	1	1	Wilmington, N. C.....	1	
Lowell, Mass.....	1		Wilmington, Del.....		3
Manchester, N. H.....	1		Zanesville, Ohio.....	2	
McKeesport, Pa.....	1				

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

State Reports for February and March, 1918.

During the month of March, 1918, there were reported in Maryland, 91 cases of diphtheria, 2,625 cases of measles, and 209 cases of scarlet fever; in New York, 469 cases of diphtheria, 7,061 cases of measles, and 768 cases of scarlet fever; in Vermont, 13 cases of diphtheria, 36 cases of measles, and 16 cases of scarlet fever. During the month of February there were reported in North Carolina 13 cases of diphtheria, 36 cases of measles, and 16 cases of scarlet fever.

City Reports for Week Ended Mar. 30, 1918.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Over 500,000 inhabitants:											
Baltimore, Md.	589,621	-----	5	3	487	1	8	-----	59	40	
Boston, Mass.	756,476	-----	100	1	227	8	27	1	68	24	
Chicago, Ill.	2,497,722	844	110	5	59	-----	50	-----	398	90	
Cleveland, Ohio.	674,073	216	12	1	25	1	7	-----	27	26	
Detroit, Mich.	571,784	236	51	1	53	4	34	2	46	17	
Los Angeles, Cal.	503,812	140	12	3	186	-----	17	-----	46	33	
New York, N. Y.	5,602,841	2,381	255	39	1,601	44	128	5	309	270	
Philadelphia, Pa.	1,709,518	653	62	9	637	3	49	-----	123	91	
Pittsburgh, Pa.	579,080	253	16	1	199	2	12	1	29	29	
St. Louis, Mo.	757,309	261	39	6	115	1	19	-----	49	24	
From 300,000 to 500,000 inhab- itants:											
Buffalo, N. Y.	468,558	180	11	3	104	2	14	1	42	-----	
Cincinnati, Ohio.	410,476	156	14	1	39	4	6	-----	33	21	
Jersey City, N. J.	306,345	139	13	2	53	1	10	1	39	17	
Milwaukee, Wis.	436,535	110	4	1	395	4	30	1	7	12	
Minneapolis, Minn.	363,454	-----	21	2	23	-----	14	-----	-----	10	
Newark, N. J.	408,894	201	22	2	396	7	17	1	54	17	
New Orleans, La.	371,747	141	8	-----	2	-----	-----	-----	34	27	
San Francisco, Cal.	463,516	187	17	-----	161	-----	16	-----	33	28	
Seattle, Wash.	348,639	-----	3	-----	67	-----	8	-----	14	-----	
From 200,000 to 300,000 inhab- itants:											
Columbus, Ohio.	214,878	72	-----	-----	18	-----	30	-----	10	8	
Denver, Colo.	260,800	97	8	-----	149	-----	34	-----	-----	17	
Indianapolis, Ind.	271,708	-----	25	1	60	-----	25	1	17	14	
Louisville, Ky.	238,910	96	5	1	24	-----	5	-----	21	6	
Portland, Oreg.	295,463	61	1	-----	341	1	3	-----	4	4	
Providence, R. I.	254,960	140	4	2	70	1	6	1	-----	13	
Rochester, N. Y.	256,417	76	11	-----	78	-----	19	-----	15	7	
From 100,000 to 200,000 inhab- itants:											
Atlanta, Ga.	190,558	62	6	-----	11	-----	6	-----	7	6	
Birmingham, Ala.	181,762	52	1	-----	30	1	5	-----	13	4	
Bridgeport, Conn.	121,579	73	9	1	15	-----	2	-----	10	5	
Cambridge, Mass.	112,981	27	19	-----	44	-----	-----	-----	5	2	
Camden, N. J.	106,233	-----	6	-----	21	-----	8	-----	10	-----	
Dallas, Tex.	124,527	8	-----	-----	23	-----	2	-----	5	4	
Dayton, Ohio.	127,224	-----	1	-----	14	-----	1	-----	2	2	
Des Moines, Iowa.	101,598	-----	1	-----	2	-----	7	-----	-----	-----	
Fall River, Mass.	128,366	44	7	-----	2	-----	4	-----	9	4	
Fort Worth, Tex.	104,562	53	1	1	2	-----	1	-----	3	3	
Grand Rapids, Mich.	128,291	36	7	1	13	-----	9	-----	4	3	
Hartford, Conn.	110,939	75	10	-----	4	-----	5	-----	2	2	
Houston, Tex.	112,397	40	2	-----	16	-----	4	-----	4	3	
Lawrence, Mass.	100,560	38	1	1	16	-----	-----	-----	7	4	
Lowell, Mass.	113,245	40	7	1	5	-----	1	-----	4	2	
Lynn, Mass.	102,425	27	1	-----	28	-----	4	-----	4	2	
Memphis, Tenn.	148,995	56	4	2	20	-----	9	-----	15	9	
Nashville, Tenn.	117,057	52	1	-----	15	-----	-----	-----	9	6	
New Bedford, Mass.	118,153	40	-----	-----	11	-----	2	-----	10	6	
New Haven, Conn.	149,685	56	8	2	2	-----	2	-----	14	9	
Oakland, Cal.	198,604	57	1	-----	43	-----	3	-----	5	2	

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

City Reports for Week Ended Mar. 30, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 100,000 to 200,000 inhabit- ants—Continued.										
Omaha, Nebr.	165,470	34	5	1	8		21	1		2
Reading, Pa.	109,381	22	5	1	44		5		1	1
Richmond, Va.	156,687	58	8	1	79	1	3		11	10
Salt Lake City, Utah.	117,399	37	10		8		7			2
Scranton, Pa.	146,811	51	4		5		4		7	4
Spokane, Wash.	150,323				4		6			
Springfield, Mass.	105,942	44	2		37		6		7	4
Syracuse, N. Y.	155,624	61	7	1	136	6	6		4	3
Tacoma, Wash.	112,770		3		2		48			
Toledo, Ohio.	191,554	62	3	1	13		10		15	11
Trenton, N. J.	111,593	37	3	1	7				7	1
Worcester, Mass.	163,514	65	4		2		3	1	8	5
From 50,000 to 100,000 inhabit- ants:										
Akron, Ohio	85,625		13		17		14		14	
Altoona, Pa.	58,659		4		15					
Atlantic City, N. J.	57,660		1		30				2	1
Augusta, Ga.	50,245	18	1		22		2			4
Bayonne, N. J.	69,893		7		114		1		3	
Berkeley, Cal.	57,653	6	1		12		3		1	
Binghamton, N. Y.	53,973	25	2		9		11		2	
Brockton, Mass.	67,449	12			11		5		3	2
Canton, Ohio.	60,852	13	1		4		5			3
Charleston, S. C.	60,734	30	7	1	8	1			1	4
Chattanooga, Tenn.	60,075	6	1		5				1	4
Covington, Ky.	57,144	24			4		2		2	3
Duluth, Minn.	94,495	14	5		6	1	4		6	1
Elizabeth, N. J.	86,690	31	10		37	1	10		1	4
El Paso, Tex.	63,705	30	1	1	12	1	1			6
Erie, Pa.	75,195	34	1		6		4		11	5
Evansville, Ind.	76,078	24	2		6		1		3	3
Flint, Mich.	54,772	19	2		6		4		4	1
Fort Wayne, Ind.	76,183	27	2				4		2	5
Harrisburg, Pa.	72,015	29	1		15				3	1
Hoboken, N. J.	77,214	32	4	1	7				7	2
Holyoke, Mass.	65,286	34	1		1				3	4
Johnstown, Pa.	68,529	19	4	1			10			1
Kansas City, Kans.	99,437				16		4		2	
Lancaster, Pa.	50,853				31		3			
Little Rock, Ark.	57,343	6	1		7		4		3	2
Malden, Mass.	51,155	21	3		15		3	1	2	2
Manchester, N. H.	78,283	28	2		19		2		2	2
Mobile, Ala.	58,221	18			1					
New Britain, Conn.	53,794	18	5		23		7		9	1
Norfolk, Va.	89,612		1		27		4			2
Oklahoma City, Okla.	92,943	16			4		1		2	3
Passaic, N. J.	71,744	19	2	1	2				3	
Pawtucket, R. I.	59,411	29	2		3	1				2
Peoria, Ill.	71,458	19			9		1			3
Portland, Me.	63,867	15	2		3					1
Rockford, Ill.	55,185	20	1		13		5		4	1
Sacramento, Cal.	66,895	20			45		4		1	4
Saginaw, Mich.	55,642	15	1		4		2		1	1
St. Joseph, Mo.	85,236	44	7			3				1
San Diego, Cal.	53,330	25	4		58		5		8	1
Savannah, Ga.	68,805	39	2	1	7				1	7
Schenectady, N. Y.	99,519	31	6		15				4	3
Sioux City, Iowa.	57,078	1	2				22			
Somerville, Mass.	87,039	24	3		28		5		5	2
South Bend, Ind.	68,946	23	1		30		1		1	2
Springfield, Ill.	61,120	21	1		59		2			2
Springfield, Ohio.	51,550	11			2					2
Terre Haute, Ind.	66,083	18	1	1			1	1	3	1
Troy, N. Y.	77,916	31	3				4		6	4
Wichita, Kans.	70,722				48	2	5		3	2
Wilkes-Barre, Pa.	76,776	28	3		37		3		4	
Wilmington, Del.	94,265	37	3		44	1				4
Yonkers, N. Y.	99,838		4		15					
York, Pa.	51,656				11		1		2	

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

City Reports for Week Ended Mar. 30, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabit- ants:										
Alameda, Cal.	27,732	7			20				3	1
Auburn, N. Y.	37,385	11			14					
Austin, Tex.	34,814	18								3
Battle Creek, Mich.	29,480		4		56		3			2
Beaumont, Tex.	27,711	8								
Bellingham, Wash.	32,985				1					
Brookline, Mass.	32,730	13	1		32		9		2	
Burlington, Iowa.	25,030	11					2			
Butler, Pa.	27,632	10			25					
Butte, Mont.	43,425	51	2		1		7	3		
Cedar Rapids, Iowa.	37,308						5			
Central Falls, R. I.	25,636				2					
Charleston, W. Va.	29,941	16			4		1		2	2
Charlotte, N. C.	39,823	16			3				1	2
Chelsea, Mass.	46,192	16	4		39	1	5		2	
Chicopee, Mass.	29,319	14	3	2			1		2	
Clinton, Iowa.	27,386				15					
Colorado Springs, Colo.	32,971	19			35				3	9
Columbia, S. C.	34,611				5				1	
Council Bluffs, Iowa	31,484						3			
Cranston, R. I.	25,987	10			2				1	1
Cumberland, Md.	26,074	7			12		6		1	
Danville, Ill.	32,261	12			78	1			1	1
Davenport, Iowa.	48,811		2				12			
Decatur, Ill.	39,631	7			40					4
Dubuque, Iowa.	39,873		1				2			2
Durham, N. C.	25,061	6			1					
Easton, Pa.	30,530	19			15				2	
East Orange, N. J.	42,458	7	1		32		2		3	1
Elgin, Ill.	28,203	5			4					
Elmira, N. Y.	38,120	4	1		42					3
Evanston, Ill.	28,591	4			11					
Everett, Mass.	39,233	8	2		17		2		4	
Everett, Wash.	35,486	7			2		1			
Fresno, Cal.	34,958	6			13				1	
Galveston, Tex.	41,863	20	1		2		1			1
Green Bay, Wis.	29,353	7			5		2			1
Hammond, Ind.	26,171	15	1		2		2		1	1
Haverhill, Mass.	48,477	14			50		5		1	1
Jackson, Mich.	35,363	18			17		30		3	2
Jamestown, N. Y.	36,580	14	2				1		5	
Kalamazoo, Mich.	48,886	28					1			1
Kenosha, Wis.	31,576	10	7		2		4		1	1
Kingston, N. Y.	26,771	9								1
Knoxville, Tenn.	38,676	4			19				4	4
La Crosse, Wis.	31,677	8	1							
Lansing, Mich.	40,498		2		29		2			
Lexington, Ky.	41,097	32	1		19					5
Lima, Ohio.	35,384	15	2		1					
Lincoln, Nebr.	46,515	19	1		2		6			1
Long Beach, Cal.	27,587	9	3		28				1	
Lorain, Ohio.	36,964	1	3	1			1			
Lynchburg, Va.	32,940	12	2		12				1	
Macon, Ga.	45,757	26	1		3		2		2	
Madison, Wis.	30,699	10			32		13			1
McKeesport, Pa.	47,521				6					
Medford, Mass.	26,234	6	2		9		3		2	1
Moline, Ill.	27,451	10	1		18		1			1
Montclair, N. J.	26,318	2	1		39				2	
Montgomery, Ala.	43,285	16			16					
Muncie, Ind.	25,424	7			3		1		1	1
Muskegon, Mich.	26,100	15			1				1	
Muskogee, Okla.	44,218				5					1
Nashua, N. H.	27,327	8								1
Newburgh, N. Y.	29,603	11	1		2					1
New Castle, Pa.	41,133		1		9					
Newport, Ky.	31,927	13					1		3	3
Newport, R. I.	30,108	11		1			4			
Newton, Mass.	43,715	13	1	1	17		2		1	1

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

City Reports for Week Ended Mar. 30, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
From 25,000 to 50,000 in- habitants—Continued.											
Norristown, Pa.	31,401	9		1	1						
Norwalk, Conn.	26,899				1						2
Oak Park, Ill.	26,654	13	1		9						
Ogden, Utah.	31,404	11			18						
Orange, N. J.	33,080	19			30					1	3
Oshkosh, Wis.	36,065	9	3	2			1	1	2	3	1
Perth Amboy, N. J.	41,185	11	1		14		1		2		
Petersburg, Va.	25,582				4				4		5
Pittsfield, Mass.	38,629	10	1		1				2		
Portsmouth, Va.	28,741	27			13		4				7
Poughkeepsie, N. Y.	30,390	15		1	69		1		3		7
Quincy, Ill.	36,798	9			8						1
Quincy, Mass.	38,136	9	1		65				1		
Racine, Wis.	46,486	14			37		3				1
Roanoke, Va.	43,284	21			20						3
Rock Island, Ill.	28,926	10	1		32		4				
Salem, Mass.	48,562	18	2		30				4		1
San Jose, Cal.	38,902				32		3		2		
Sheboygan, Wis.	28,559	13	2				1				
Steubenville, Ohio.	27,445	19	1				1		5		5
Superior, Wis.	46,226	5	1				4				
Taunton, Mass.	36,283	8			1		1		3		2
Topeka, Kans.	48,726	18	1		2		10		1		
Walla Walla, Wash.	25,136		3		2						
Waltham, Mass.	30,570	13	4	1	5				1		
Warwick, R. I.	29,969				2						
Watertown, N. Y.	29,894	6			138	3					2
West Hoboken, N. J.	43,139	15	2		4				1		2
Wheeling, W. Va.	43,377	17			10		2		4		1
Williamsport, Pa.	33,809	11	2				1		1		1
Wilmington, N. C.	29,892	5			30				3		
Winston-Salem, N. C.	31,155	29			27		1		4		
Woonsocket, R. I.	44,360		2				1				
Zanesville, Ohio.	30,863	17							1		2
From 10,000 to 25,000 inhabitants:											
Ablene, Tex.	14,238	1					4			2	
Alton, Ill.	22,874	10	1		3		1				3
Amarillo, Tex.	19,124	15			7		4	1	4		4
Ann Arbor, Mich.	15,010	9	4		27		1		2		
Anniston, Ala.	14,112		1		7				1		
Appleton, Wis.	17,834				2		2				
Barre, Vt.	12,169	2	1								1
Bedford, Ind.	10,349	3									
Berlin, N. H.	13,599	5									1
Billings, Mont.	14,422						1				
Bloomington, Ind.	11,383	3					3				
Braddock, Pa.	21,685	11	1		1		1		3		
Cairo, Ill.	15,794	9			1						2
Chillicothe, Ohio.	15,470	5	5		12		9		1		
Clinton, Mass.	13,075	14			3				1		2
Coffeyville, Kans.	17,548				4						
Concord, N. H.	22,669	11			1						
Corpus Christi, Tex.	10,432	4	2								
Dover, N. H.	13,272	3	1		1		1				
East Providence, R. I.	18,113		1		1		1				
Elwood, Ind.	11,028	6			7		1				
Fargo, N. Dak.	17,389	5	2		4					2	
Galesburg, Ill.	24,276	5			20						1
Grand Forks, N. Dak.	15,837	9					1			1	
Greeley, Colo.	11,420	4					6				
Greensboro, N. C.	19,577									3	
Greenville, S. C.	18,181	6			1						
Harrison, N. J.	16,950		1		1		2				
Hattiesburg, Miss.	16,482	6							2		
Independence, Kans.	14,506				9				1		
Janesville, Wis.	14,339				4		4				
Kearny, N. J.	23,539	8			22						
Keokuk, Iowa.	14,008		2		5		11				
Kokomo, Ind.	20,830	9			7						2
La Fayette, Ind.	21,286	10	1				3				

¹ Population Apr. 15, 1910; no estimate made.

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

City Reports for Week Ended Mar. 30, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 10,000 to 25,000 inhabit- ants—Continued.										
Leavenworth, Kans.	19,363	9	3		11	1				
Lincoln, R. I.	10,383	3				1				
Long Branch, N. J.	15,395	6								
Manitowoc, Wis.	13,805	6	2		15				1	1
Marinette, Wis.	14,610	2								
Marion, Ind.	19,834	1								
Marshall, Tex.	13,172	6	1						2	
Melrose, Mass.	17,445	8			1				1	1
Michigan City, Ind.	21,512	11					1			3
Mishawaka, Ind.	16,385	5			4				1	
Missoula, Mont.	18,214	8					1	1		
Morgantown, W. Va.	13,709	3								
Morristown, N. J.	13,284	5								1
Moundsville, W. Va.	11,153	3								
Muscatine, Iowa.	17,500				5					
Nanticoke, Pa.	23,126	9			2				3	
New Albany, Ind.	23,629	6								2
Newburyport, Mass.	15,243	5	1		1					
New Castle, Ind.	13,241	4	1							
New London, Conn.	20,985				1		2			1
North Adams, Mass.	22,019	8							2	1
Northampton, Mass.	19,926	12	1		4				1	3
North Yakima, Wash.	20,951				22					
Parkersburg, W. Va.	20,612	7			6					
Plainfield, N. J.	23,805	8	1		6				1	2
Pontiac, Mich.	17,524	7	6		1		3			1
Portsmouth, N. H.	11,666				8		1			
Reno, Nev.	14,869	5			1		1			
Richmond, Ind.	24,697	6					1		2	
Rocky Mount, N. C.	12,067	6			1				2	1
Rutland, Vt.	14,831	10								
Sandusky, Ohio.	20,193	2								
Saratoga Springs, N. Y.	13,821	4			1		2		1	
Shelbyville, Ind.	10,965	4					1			
Spartansburg, S. C.	21,365	8	2		2		2		1	
Steelton, Pa.	15,548	6							2	1
Vancouver, Wash.	13,180				18					
Washington, Pa.	21,618		1		70					
West Orange, N. J.	13,550	4	1		15		1			1
Wilksburg, Pa.	23,228	9			17					

¹ Population Apr. 15, 1910, no estimate made.

FOREIGN.

CHINA.

Cerebrospinal Meningitis—Shanghai.

Cerebrospinal meningitis was reported present at Shanghai, March 14, 1918.

Examination of Rats—Hongkong.

Examination of rats at Hongkong has been reported as follows: Three weeks ended December 29, 1917, 8,320 rats; period from December 30, 1917, to February 9, 1918, 11,486 rats. No plague infection was found. The last plague-infected rat at Hongkong was reported found during the week ended September 22, 1917.

Examination of Rats—Shanghai.

During the period from February 3 to March 9, 1918, 1,331 rats were examined at Shanghai. No plague infection was found. The last plague-infected rat at Shanghai was reported found May 6, 1916.

Plague—Nanking.

Plague was reported present in pneumonic form at Nanking, China, April 12, 1918.

Plague—North China.

During the month of January, 1918, plague was reported present, in pneumonic form, in north China. In February, 1918, the disease was reported prevalent in the vicinity of Kalgan, an important trade center in Chili Province, and in Shansi Province.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Mar. 11-20, 1918.		Cases remaining under treatment Mar. 20, 1918.	Disease.	Mar. 11-20, 1918.		Cases remaining under treatment Mar. 20, 1918.
	New cases.	Deaths.			New cases.	Deaths.	
Diphtheria.....	8	.....	9	Paratyphoid fever.....	.....	.....	2
Leprosy.....	.....	.....	12	Scarlet fever.....	9	.....	27
Malaria.....	13	.....	140	Typhoid fever.....	11	6	41
Measles.....	6	1	49	Varicella.....	22	.....	66

¹ From the interior, 33.

² From the interior, 7.

³ From the interior, 20.

GREAT BRITAIN.

Examination of Rats—Liverpool.

During the period from December 30, 1917, to March 9, 1918, 1,525 rats were examined at Liverpool. No plague infection was found.

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

Reports Received During Week Ended Apr. 19, 1918.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Dec. 16-29.....		29	
Do.....	Jan. 13-26.....		10	
Madras.....	Jan. 27-Feb. 2.....	16	7	
Indo-China:				
Cochin-China—				
Saigon.....	Feb. 4-17.....	4		
Java:				
West Java.....				Dec. 28, 1917-Jan. 31, 1918: Cases, 27; deaths, 7.
Batavia.....	Dec. 28-Jan. 31....	24	1	
Philippine Islands:				
Provinces.....				Feb. 10-16, 1918: Cases, 104; deaths, 79.
Bohol.....	Feb. 10-16.....	23	23	
Capiz.....	do.....	31	22	
Cebu.....	do.....	3		
Iloilo.....	do.....	13	9	
Leyte.....	do.....	15	14	
Occidental Negros.....	do.....	17	10	
Oriental Negros.....	do.....	2	1	
Provinces.....				Feb. 17-23, 1918: Cases, 102; deaths, 80.
Bohol.....	Feb. 17-23.....	53	37	
Capiz.....	do.....	34	28	
Cebu.....	do.....	4	4	
Iloilo.....	do.....	1		
Leyte.....	do.....	4	4	
Occidental Negros.....	do.....	6	7	
Provinces.....				Feb. 24-Mar. 2, 1918: Cases, 138; deaths, 93.
Bohol.....	Feb. 24-Mar. 2.....	50	33	
Capiz.....	do.....	16	17	
Cebu.....	do.....	3	2	
Iloilo.....	do.....	1	1	
Leyte.....	do.....	10	7	
Misamis.....	do.....	33	21	
Occidental Negros.....	do.....	5		
Surigao.....	do.....	8	5	
Zamboanga.....	do.....	12	7	

PLAGUE.

China:				
North China.....				Present in January, 1918; pneumonic form.
Chili Province—				
Kalgan.....				Vicinity. Present in February, 1918.
Shansi Province.....				Present in February, 1918; 116 cases estimated.
India:				
Madras Presidency.....	Jan. 27-Feb. 2.....	1,006	774	
Indo-China:				
Cochin-China—				
Saigon.....	Feb. 4-17.....	17	9	
Java:				
East Java.....				Dec. 25-31, 1917: Cases, 32; deaths, 31.
Do.....				Jan. 1-14, 1918: Cases, 22; deaths, 21.
Surabaya.....	Dec. 25-31.....	3	3	
Do.....	Jan. 7-14.....	10	10	
Siam:				
Bangkok.....	Jan. 13-Feb. 9.....	15	11	
Straits Settlements:				
Singapore.....	Jan. 6-Feb. 16.....	29	28	

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. 19, 1918—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada:				
New Brunswick—				
Moncton.....	Mar. 31-Apr. 6....	5	.....	
St. John.....	Mar. 24-30.....	2	.....	
Nova Scotia—				
Halifax.....	do.....	2	.....	
Sydney.....	Mar. 31-Apr. 6....	2	.....	
Ontario—				
Amprlor.....	do.....	.....	1	
Toronto.....	do.....	1	.....	
China:				
Antung.....	Mar. 4-10.....	1	.....	
Dairen.....	Feb. 24-Mar. 2....	14	1	
Nanking.....	Feb. 17-23.....	.....	4	Epidemic.
Shanghai.....	Mar. 4-10.....	.....	.....	
Tientsin.....	Feb. 24-Mar. 9....	8	.....	
Tsingtau.....	Feb. 17-23.....	2	.....	
India:				
Madras.....	Jan. 27-Feb. 2....	32	13	
Indo-China:				
Cochin-China—				
Saigon.....	Feb. 4-17.....	102	37	
Italy:				
Leghorn.....	Mar. 4-10.....	2	1	
Turin.....	Feb. 4-Mar. 3....	32	.....	
Japan:				
Nagasaki.....	Mar. 4-10.....	3	1	
Taihoku.....	Feb. 12-Mar. 11...	20	3	
Tokyo.....	Feb. 28-Mar. 6....	18	.....	City and suburbs.
Java:				
East Java.....				Dec. 25-31, 1917: Cases, 7.
Do.....				Jan. 1-14, 1918: Cases, 3.
Surabaya.....	Dec. 25-31.....	1	.....	
Mid-Java.....	Dec. 28-Jan. 23...	23	.....	
West Java.....	Dec. 28-Jan. 31...	116	17	
Newfoundland:				
St. Johns.....	Mar. 16-29.....	26	.....	
Philippine Islands:				
Manila.....	Feb. 10-Mar. 2....	3	2	Varioloid, 33.
Portugal:				
Lisbon.....	Mar. 10-16.....	2	.....	
Siam:				
Bangkok.....	Jan. 13-19.....	.....	1	

TYPHUS FEVER.

Chosen (Korea):				
Seoul.....	Feb. 1-28.....	3	2	
Great Britain:				
Belfast.....	Mar. 10-16.....	1	.....	
Greece:				
Saloniki.....	Feb. 10-Mar. 2....	.....	11	
Japan:				
Nagasaki.....	Feb. 18-Mar. 10...	5	3	
Java:				
East Java.....				Dec. 25-31, 1917: Cases, 4; death, 1.
Do.....				Jan. 1-14, 1918: Cases, 11; deaths, 2.
Surabaya.....	Dec. 25-31.....	3	.....	
Do.....	Jan. 1-14.....	10	1	
Mid-Java.....				Dec. 28, 1917-Jan. 23, 1918: Cases, 11.
Samarang.....	Jan. 3-15.....	9	.....	Dec. 28, 1917-Jan. 31, 1918: Cases, 53; death, 1.
West Java.....				
Batavia.....	Dec. 28-Jan. 31...	27	1	
Mexico:				
Aguaascalientes	Mar. 24-30.....	.....	1	
Portugal:				
Lisbon.....	Mar. 3-16.....	8	.....	
Spain:				
Corcubion.....	Apr. 11.....	.....	.....	Present. Province of Coruna, west coast.
Tunisia:				
Tunis.....	Feb. 23-Mar. 8....	4	1	
Union of South Africa:				
Cape of Good Hope State...	Sept. 10-Dec. 30...	4,035	830	European, cases 31; deaths, European, 5.
Natal.....	To Dec. 30.....	31	10	

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	Nov. 26-Dec. 2....	3	1	
India:				
Bombay.....	Oct. 28-Dec. 15....	19	14	
Do.....	Dec. 30-Jan. 26....	200	170	
Calcutta.....	Sept. 16-Dec. 15....	.....	92	
Do.....	Dec. 30-Jan. 12....	.....	14	
Karachi.....	Dec. 30-Jan. 26....	25	6	
Madras.....	Nov. 25-Dec. 22....	2	2	
Do.....	Dec. 30-Jan. 26....	13	7	
Rangoon.....	Nov. 4-Dec. 22....	5	5	
Do.....	Dec. 30-Jan. 5....	1	1	
Indo-China:				
Provinces.....				Sept. 1-Nov. 30, 1917: Cases, 152; deaths, 89.
Anam.....	Sept. 1-Nov. 30....	18	13	
Cambodia.....	do.....	72	52	
Cochin-China.....	do.....	50	22	
Saigon.....	Nov. 22-Dec. 9....	4	3	
Kwang-Chow-Wan.....	Sept. 1-30.....	10	2	
Java:				
East Java.....	Oct. 28-Nov. 3....	1	1	
West Java:				
Batavia.....	Oct. 19-Dec. 27....	49	23	Oct. 19-Dec. 27, 1917: Cases, 102; deaths, 56. Dec. 23, 1917-Jan. 10, 1918: Cases, 22; deaths, 9.
Persia:				
Mazanderan Province.....				July 30-Sept. 3, 1917: Cases, 384; deaths, 276.
Achraf.....	July 30-Aug. 16....	90	88	Present.
Astrabad.....	July 31.....	.....	.....	
Barfrush.....	July 1-Aug. 16....	39	25	
Chahmirzad.....	.....	.....	.....	25 cases reported July 31, 1917.
Chahrastagh.....	June 15-July 25....	10	8	
Charoud.....	Aug. 26-Sept. 3....	4	2	
Damghan.....	Aug. 26.....	.....	.....	Present.
Kharek.....	May 28-June 11....	21	13	
Meched.....	Aug. 18-Sept. 2....	174	82	
Ouzoun Dare.....	Aug. 8.....	.....	.....	Do.
Sabzevar.....	Aug. 24.....	.....	.....	Do.
Sari.....	July 3-29.....	273	144	
Semman.....	Aug. 31-Sept. 2....	14	5	
Yekhambe-Bazar.....	June 3.....	6	.....	
Philippine Islands:				
Provinces.....				Nov. 18-Dec. 29, 1917: Cases, 1,053; deaths, 693. Dec. 30, 1917-Feb. 9, 1918: Cases, 914; deaths, 546.
Antique.....	Nov. 18-Dec. 1....	48	32	
Do.....	Feb. 3-9.....	4	4	
Bohol.....	Nov. 18-Dec. 29....	169	111	
Do.....	Dec. 30-Feb. 9....	213	181	
Capiz.....	Nov. 25-Dec. 29....	27	21	
Do.....	Dec. 30-Feb. 9....	121	101	
Cebu.....	Dec. 23-29.....	3	.....	
Do.....	Dec. 30-Feb. 9....	69	36	
Iloilo.....	Nov. 25-Dec. 29....	179	135	
Do.....	Dec. 30-Feb. 9....	82	53	
Leyte.....	Nov. 25-Dec. 22....	13	12	
Do.....	Feb. 3-9.....	9	8	
Mindanao.....	Nov. 25-Dec. 29....	337	196	
Do.....	Dec. 30-Feb. 9....	351	220	
Occidental Negros.....	Nov. 25-Dec. 22....	177	123	
Do.....	Jan. 13-Feb. 9....	60	40	
Oriental Negros.....	Nov. 25-Dec. 29....	99	62	
Do.....	Dec. 30-Feb. 9....	15	13	
Romblon.....	Nov. 25-Dec. 1....	1	1	
Siam:				
Bangkok.....	Sept. 16-22.....	1	1	
Turkey in Asia:				
Bagdad.....	Nov. 1-15.....	.....	40	

PLAGUE.

Brazil:				
Bahia.....	Nov. 4-Dec. 15....	4	4	
Do.....	Dec. 30-Jan. 12....	3	2	
Rio de Janeiro.....	Dec. 23-29.....	1	.....	
Do.....	Jan. 6-12.....	1	1	
British Gold Coast:				
Axim.....	Jan. 8.....	.....	.....	Present.

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Oct. 14-Dec. 1.....	14	13	
Do.....	Dec. 30-Jan. 19....	7	5	
Ecuador				Sept. 1-Nov. 30, 1917: Cases, 68; deaths, 24. Reported outbreak occurring about Jan. 17, 1918.
Guayaquil.....	Sept. 1-30.....	3	1	
Do.....	Oct. 1-31.....	20	8	
Do.....	Nov. 1-30.....	45	15	
Egypt				Jan. 1-Nov. 15, 1917: Cases, 728; deaths, 398.
Alexandria.....	Jan. 14-28.....	1	2	
Port Said.....	July 23-29.....	1	2	
India				Sept. 16-Dec. 29, 1917: Cases, 228,834; deaths, 174,743. Dec. 30, 1917-Jan. 26, 1918: Cases, 123,934; deaths, 98,950.
Bassein.....	Dec. 9-29.....		8	
Do.....	Dec. 30-Jan. 19....		14	
Bombay.....	Oct. 28-Dec. 29....	147	123	
Do.....	Dec. 30-Jan. 26....	81	59	
Calcutta.....	Sept. 16-29.....		2	
Do.....	Dec. 30-Jan. 12....		3	
Henzada.....	Oct. 21-27.....		1	
Do.....	Jan. 5-19.....		5	
Karachi.....	Oct. 21-Dec. 29....	27	20	
Do.....	Dec. 30-Jan. 26....	16	14	
Madras Presidency.....	Oct. 31-Nov. 17....	3,294	2,560	
Do.....	Jan. 6-26.....	4,310	3,286	
Mandalay.....	Oct. 14-Nov. 17....		89	
Do.....	Dec. 30-Jan. 12....		236	
Myingyan.....	do.....		110	
Prome.....	Jan. 5-12.....		1	
Rangoon.....	Oct. 21-Dec. 22....		56	
Do.....	Dec. 30-Jan. 26....	79	74	
Toungoo.....	Dec. 9-29.....		5	
Do.....	Dec. 30-Jan. 19....		4	
Indo-China:				
Provinces.....				Sept. 1-Nov. 30, 1917: Cases, 89; deaths, 68.
Anam.....	Sept. 1-Nov. 30....	28	25	
Cambodia.....	do.....	39	28	
Cochin-China.....	do.....	22	15	
Saigon.....	Oct. 31-Dec. 23....	17	6	
Do.....	Dec. 31-Feb. 3....	36	9	
Java:				
East Java.....				Oct. 27-Dec. 23, 1917: Cases, 189; deaths, 186.
Sursabaya.....	Nov. 4-25.....	3	3	
West Java.....				Nov. 25-Dec. 9, 1917: Cases, 45; deaths, 45.
Peru				Dec. 1, 1917-Jan. 15, 1918: Cases, 103.
Ancachs Department—				
Casma.....	Dec. 1-Jan. 15....	2		
Lambayeque Department.....	do.....	22		At Chiclayo, Ferrenafe, Jayanca, Lambayeque.
Libertad Department.....	do.....	72		At Guadalupe, Mansiche, Pacasmayo, Salaverry, San Jose, San Pedro, and country district of Trujillo.
Lima Department.....	do.....	9		City and country.
Piura Department—				
Catacaos.....	do.....	1		
Senegal:				
St. Louis.....	Feb. 2.....			Present.
Siam:				
Bangkok.....	Sept. 16-Dec. 23....	13	9	
Straits Settlements:				
Singapore.....	Oct. 28-Dec. 29....	5	7	

SMALLPOX.

Algeria:				
Algiers.....	Nov. 1-Dec. 31....	3	1	
Do.....	Jan. 1-31.....	2		
Australia:				
New South Wales.....				July 12-Dec. 20, 1917: Cases, 36. Jan. 4-17, 1918: Case, 1. Newcastle district.
Abermain.....	Oct. 25-Nov. 29....	3		
Cessnock.....	July 12-Oct. 11....	7		
Eumangla.....	Aug. 15.....	1		
Kurri Kurri.....	Dec. 5-20.....	2		
Mungindi.....	Aug. 13.....	1		
Warren.....	July 12-Oct. 25....	22		
Do.....	Jan. 1-17.....	1		

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia.....	Nov. 10-Dec. 8....	3		
Pernambuco.....	Nov. 1-15.....	1		
Rio de Janeiro.....	Sept. 30-Dec. 29.....	703	190	
Do.....	Dec. 30-Mar. 9.....	231	83	
Sao Paulo.....	Oct. 29-Nov. 4.....		2	
Canada:				
British Columbia—				
Vancouver.....	Jan. 13-Mar. 9.....	5		
Victoria.....	Jan. 7-Feb. 2.....	2		
Winnipeg.....	Dec. 30-Jan. 5.....	1		
New Brunswick—				
Kent County.....	Dec. 4.....			Outbreak. On main line Canadian Ry., 25 miles north of Moncton.
Do.....	Jan. 22.....	40		In 7 localities.
Northumberland County.....	do.....	41		In 5 localities.
Restigouche County.....	Jan. 18.....	60		
St. John County—				
St. John.....	Mar. 3-23.....	3		
Victoria County.....	Jan. 22.....	10		At Limestone and a lumber camp.
Westmoreland County—				
Moncton.....	Jan. 20-Mar. 30.....	11		
York County.....	Jan. 22.....	8		
Nova Scotia—				
Halifax.....	Feb. 24-Mar. 23.....	1		
Sydney.....	Feb. 3-Mar. 30.....	13		
Ontario—				
Hamilton.....	Dec. 16-22.....	1		
Do.....	Jan. 13-19.....	2		
Ottawa.....	Mar. 4-24.....	5		
Sarnia.....	Dec. 9-15.....	1		
Do.....	Jan. 6-Mar. 30.....	32		
Toronto.....	Feb. 10-16.....	1		
Windsor.....	Dec. 30-Jan. 5.....	1		
Prince Edward Island—				
Charlottetown.....	Feb. 7-13.....	1		
Quebec—				
Montreal.....	Dec. 16-Jan. 5.....	5		
Do.....	Jan. 6-Mar. 30.....	10		
China:				
Amoy.....	Oct. 22-Dec. 30.....			Present.
Do.....	Dec. 31-Feb. 10.....			Do.
Antung.....	Dec. 2-23.....	13	2	
Do.....	Jan. 7-Feb. 17.....	5	2	
Changsha.....	Jan. 28-Feb. 3.....		1	
Chefoo.....	Jan. 27-Feb. 9.....			Do.
Chungking.....	Nov. 11-Dec. 29.....			Do.
Do.....	Dec. 30-Feb. 2.....			Do.
Dairen.....	Nov. 18-Dec. 22.....	3	1	
Do.....	Dec. 30-Feb. 23.....	25	1	
Harbin.....	May 14-June 30.....	20		Chinese Eastern Ry.
Do.....	July 1-Dec. 2.....	7		Do.
Hongkong.....	Dec. 23-29.....	1		
Do.....	Jan. 26-Feb. 9.....	6	1	
Hungtshotze Station.....	Oct. 28-Nov. 4.....	1		Do.
Manchuria Station.....	May 14-June 30.....	6		Do.
Do.....	July 1-Dec. 2.....	3		Do.
Mukden.....	Nov. 11-24.....			Present.
Nanking.....	Feb. 3-16.....			Epidemic.
Shanghai.....	Nov. 18-Dec. 23.....	41	91	Cases, foreign; deaths among natives.
Do.....	Dec. 31-Mar. 3.....	36	102	Do.
Swatow.....	Jan. 18.....			Unusually prevalent.
Tientsin.....	Nov. 11-Dec. 22.....	13		
Do.....	Dec. 30-Feb. 23.....	17		
Tsingtau.....	Feb. 4-10.....	1		
Cuba:				
Habana.....	Jan. 7.....	1		Nov. 8, 1917: 1 case from Coruna;
Marianao.....	Jan. 8.....	1		Dec. 5, 1917, 1 case.
				6 miles distant from Habana.

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador.....				Sept. 1-Nov. 30, 1917: Cases, 26; deaths, 2.
Guayaquil.....	Sept. 1-30.....	8	1	
Do.....	Oct. 1-31.....	14	1	
Do.....	Nov. 1-30.....	4	1	
Egypt:				
Alexandria.....	Nov. 12-18.....	2	1	
Do.....	Jan. 8-Feb. 23.....	5	1	
Cairo.....	July 23-Nov. 18.....	6	1	
France:				
Lyon.....	Nov. 18-Dec. 16.....	6	3	
Do.....	Jan. 7-Feb. 17.....	11	2	
Marseille.....	Jan. 1-31.....	2	2	
Paris.....	Jan. 27-Feb. 23.....	2	1	
Great Britain:				
Cardiff.....	Feb. 3-9.....	4	1	
Greece:				
Saloniki.....	Jan. 27-Feb. 9.....	7	1	
Honduras:				Present in interior.
Santa Barbara Department.	Jan. 1-7.....			
India:				
Bombay.....	Oct. 21-Dec. 29.....	50	12	
Do.....	Dec. 31-Jan. 26.....	26	5	
Karachi.....	Nov. 18-Dec. 29.....	4	2	Nov. 11-16, 1917: 10 cases with 4 deaths; imported on s. s. McNesa from Basreh.
Madras.....	Oct. 31-Dec. 29.....	18	8	
Do.....	Dec. 30-Jan. 26.....	48	15	
Rangoon.....	Oct. 28-Dec. 22.....	6	1	
Do.....	Dec. 30-Jan. 26.....	7	2	
Indo-China:				
Provinces.....				Sept. 1-Nov. 30, 1917: Cases, 546; deaths, 146.
Anam.....	Sept. 1-Nov. 30.....	163	25	
Cambodia.....	do.....	16	8	
Cochin-China.....	do.....	353	108	
Saigon.....	Oct. 20-Dec. 30.....	120	26	
Do.....	Dec. 31-Feb. 3.....	188	63	
Laos.....	Oct. 1-31.....	1	1	
Do.....	Jan. 26-Feb. 3.....	1	1	
Tonkin.....	Sept. 1-Oct. 31.....	9	4	
Do.....	Jan. 26-Feb. 3.....	3	1	
Italy:				
Castellamare.....	Dec. 10.....	2	1	Among refugees.
Florence.....	Dec. 1-15.....	17	4	
Genoa.....	Dec. 2-31.....	11	3	
Do.....	Jan. 2-31.....	30	2	
Leghorn.....	Jan. 7-Feb. 24.....	30	6	
Messina.....	Jan. 3-19.....	1	1	
Milan.....				Oct. 1-Dec. 31, 1917: Cases, 32.
Naples.....	To Dec. 10.....	2	1	Among refugees.
Taormina.....	Jan. 20-Feb. 9.....	6	1	
Turin.....	Oct. 29-Dec. 29.....	123	120	
Do.....	Jan. 21-Feb. 3.....	24	3	
Japan:				
Nagasaki.....	Jan. 14-27.....	3	1	
Taihoku.....	Dec. 15-21.....	1	1	Island of Twaiwan (Formosa).
Do.....	Jan. 8-Feb. 11.....	5	2	Do.
Tokyo.....	Feb. 11-18.....	8	1	City and suburbs.
Yokohama.....	Jan. 17-Feb. 3.....	4	1	
Java:				
East Java.....	Oct. 7-Dec. 23.....	50	1	
Mid-Java.....				Oct. 10-Dec. 26, 1917: Cases, 86; death, 1.
Samarang.....	Nov. 6-Dec. 12.....	4	1	
West Java.....				Oct. 19-Dec. 27, 1917: Cases, 231.
Batavia.....	Nov. 2-8.....	1	1	deaths, 36. Dec. 23, 1917-Jan. 10, 1918: Cases, 47; deaths, 4.
Mexico:				
Aguascalientes.....	Feb. 4-17.....		2	
Ciudad Juarez.....	Mar. 3-23.....	2	1	
Mazatlan.....	Dec. 5-11.....		1	
Do.....	Jan. 29-Mar. 5.....	4	3	
Mexico City.....	Nov. 11-Dec. 29.....	16	1	
Do.....	Dec. 30-Mar. 9.....	61	1	
Piedras Negras.....	Jan. 11.....	200	1	
Vera Cruz.....	Jan. 20-Mar. 2.....	7	3	
Newfoundland:				
St. Johns.....	Dec. 8-Jan. 4.....	29	1	
Do.....	Jan. 5-Mar. 15.....	35	1	
Trepassey.....	Jan. 4.....			Outbreak with 11 cases reported.

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands:				
Manila.....	Oct. 28-Dec. 8....	5	.....	
Do.....	Jan. 13-Feb. 9....	12	.....	
Porto Rico:				
San Juan.....	Jan. 28-Mar. 17....	32	.....	Varioloid.
Portugal:				
Lisbon.....	Nov. 4-Dec. 15....	2	.....	
Do.....	Dec. 30-Feb. 22....	4	.....	
Portuguese East Africa:				
Lourenço Marques.....	Aug. 1-Dec. 31....	.....	16	
Russia:				
Archangel.....	Sept. 1-Oct. 31....	7	.....	
Moscow.....	Aug. 26-Oct. 6....	22	2	
Petrograd.....	Aug. 31-Nov. 18....	76	3	
Siam:				
Bangkok.....	Nov. 25-Dec. 1....	1	1	
Do.....	Jan. 6-12.....	1	.....	
Spain:				
Coruna.....	Dec. 2-15.....	.....	4	
Do.....	Jan. 20-Feb. 23....	.....	5	
Madrid.....	.....	.....	.....	Jan. 1-Dec. 31, 1917: Deaths, 77.
Seville.....	Oct. 1-Dec. 30....	.....	66	
Do.....	Jan. 1-31.....	.....	20	
Straits Settlements:				
Singapore.....	Nov. 25-Dec. 1....	1	1	
Do.....	Dec. 30-Jan. 5....	1	.....	
Tunisia:				
Tunis.....	Dec. 14-20.....	1	.....	
Turkey in Asia:				
Bagdad.....	.....	.....	.....	Present in November, 1917.
Union of South Africa:				
Cape of Good Hope State.....	Oct. 1-Dec. 31....	28	.....	
East Liverpool.....	Jan. 20-26.....	1	.....	Varioloid.
Venezuela:				
Maracaibo.....	Dec. 2-8.....	.....	1	

TYPHUS FEVER.

Algeria:				
Algiers.....	Nov. 1-Dec. 31....	2	1	
Argentina:				
Rosario.....	Dec. 1-31.....	.....	1	
Australia:				
South Australia.....	.....	.....	.....	Nov. 11-17, 1917: Cases, 1.
Brazil:				
Rio de Janeiro.....	Oct. 28-Dec. 1....	7	.....	
Canada:				
Ontario—				
Kingston.....	Dec. 2-8.....	3	.....	
Quebec—				
Montreal.....	Dec. 16-22.....	2	1	
China:				
Antung.....	Dec. 3-30.....	13	1	
Do.....	Dec. 31-Jan. 27....	2	2	
Chosen (Formosa):				
Seoul.....	Nov. 1-20.....	1	.....	
Egypt:				
Alexandria.....	Nov. 8-Dec. 28....	57	15	
Do.....	Jan. 8-Feb. 25....	223	54	
Cairo.....	July 23-Dec. 16....	137	70	
Port Said.....	July 30-Nov. 11....	5	5	
France:				
Marseille.....	Dec. 1-31.....	.....	1	
Great Britain:				
Belfast.....	Feb. 10-Mar. 9....	16	3	
Glasgow.....	Dec. 21.....	1	.....	
Do.....	Jan. 20-Mar. 9....	9	.....	
Manchester.....	Dec. 2-8.....	1	.....	
Greece:				
Arta.....	Feb. 19.....	2	.....	
Janina.....	Feb. 14.....	110	.....	Jan. 27, epidemic.
Saloniki.....	Nov. 11-Dec. 29....	.....	72	
Do.....	Dec. 30-Jan. 19....	.....	11	

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

Reports Received from Dec. 29, 1917, to Apr. 12, 1918—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Nagasaki.....	Nov. 26-Dec. 16....	5	5	
Do.....	Jan. 7-Feb. 17....	8	2	
Java:				
East Java.....				Oct. 15-Dec. 23, 1917: Cases, 35; deaths, 6.
Surabaya.....	Dec. 17-23.....	6	1	
Mid-Java.....				Oct. 10-Dec. 26, 1917: Cases, 63; deaths, 2.
Samarang.....	Oct. 9-Dec. 26.....	20	2	
Do.....	Dec. 27-Jan. 2.....	9		
West Java.....				Oct. 19-Dec. 27, 1917: Cases, 94; deaths, 17.
Batavia.....	Oct. 19-Dec. 27....	59	15	
Mexico:				
Aguascalientes.....	Dec. 15.....		2	
Do.....	Jan. 21-Feb. 10....		14	
Durango State—				
Guanacevi.....	Feb. 11.....			Epidemic.
Mexico City.....	Nov. 11-Dec. 29....	476		
Do.....	Dec. 30-Mar. 9.....	528		
Norway:				
Bergen.....	Feb. 1-16.....	3		
Portugal:				
Lisbon.....	Feb. 21.....			Present.
Oporto.....	do.....			Epidemic. Dec. 24, 1917-Mar. 9, 1918: About 250 cases reported.
Russia:				
Archangel.....	Sept. 1-14.....	7	2	
Moscow.....	Aug. 26-Oct. 6.....	49	2	
Petrograd.....	Aug. 31-Nov. 18....	32		
Do.....	Feb. 2.....			Present.
Vladivostok.....	Oct. 29-Nov. 4.....	12	1	
Sweden:				
Goteborg.....	Nov. 18-Dec. 15....	2		
Switzerland:				
Basel.....	Jan. 6-19.....	1	1	
Zurich.....	Nov. 9-15.....	2		
Do.....	Jan. 13-19.....	2		
Tunisia:				
Tunis.....	Nov. 30-Dec. 6.....		1	
Do.....	Feb. 9-15.....	2		
Union of South Africa:				
Cape of Good Hope State.....				Sept. 10-Nov. 25, 1917: Cases, 3,724 (European, 31; native, 3,693); deaths, 761 (European, 5; native, 756). Total to Jan. 13, 1918: Cases, 4,158 (European, 32; native, 4,126); deaths, 854 (European, 5; native, 849).
Natal.....				Dec., 1917-Jan. 13, 1918: Cases, 37; deaths, 10. (No Europeans.)

YELLOW FEVER.

Ecuador.....				
Guayaquil.....	Sept. 1-30.....	1	1	Sept. 1-Nov. 30, 1917: Cases, 5; deaths, 3.
Do.....	Oct. 1-31.....	1		
Do.....	Nov. 1-30.....	2	2	
Yaguachi.....	do.....	1		
Honduras:				
Tegucigalpa.....	Dec. 16-22.....		1	
Do.....	Jan. 6-19.....		1	