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ULTRA-VIOLET RAYS IN WATER PURIFICATION.

Some¹ Abstracts from the Literature on the Sterilization of Water by the Use of Ultra-Violet Rays.

The Public Health Service has received a number of requests regarding the sterilization of water by means of ultra-violet rays. For the information of persons interested in this subject, abstracts of certain articles on this method of water purification are given below:

Ultra-violet rays finish treatment of Henderson (Ky.) water supply. Smith, A. T., Engineering News-Record, vol. 79, pp. 1021-1022, 1917.—The population of Henderson is 17,000; the average consumption of water is about 2.5 million gallons per day. Sedimentation, mechanical filtration, and ultra-violet ray sterilization are used to treat water from the Ohio River. A new form of sterilizer is used, which consists of 3 parallel 5-unit legs. Estimated current consumption is 92.5 kilowatt hours per 1,000,000 gallons. Good bacterial results are obtained.

Ultra-violet ray sterilization of water. Parkinson, N. F., Annual Report of the Provincial Board of Health, Ontario, Canada, vol. 33, pp. 156-216, 1914.—The questions of efficiency and cost are considered. The dependency of the germicidal efficiency of ultra-violet rays upon their wave length is given detailed consideration. The process is affected by the character and the turbidity of the water treated. The construction and operation of two types of mercury vapor lamps are fully described. Diagrams of various installations are given. Graphs show the effect of turbidities up to 50 parts per million, the color being 21. In the small apparatus, water with a turbidity of 50 parts per million was treated, with a consequent reduction of 97.4 per cent in the 37.5° C. bacterial count and 95.2 per cent in the colon count. In the large apparatus, water with turbidity of 30 parts per million was reduced in bacterial count by 94.9 per cent, 91.3 per cent, and 99.46 per cent in the 18-22° C. count, 37.5° C. count, and colon fermentation, respectively. Slight irregularities in the condition of raw water supplies can be handled directly without preliminary filtration. A continuously good effluent requires a constant voltage and that the lamp be in good condition. Ultra-

¹From "Chemical Abstracts."

violet ray treatment of water can be made satisfactory and reliable. Overdosing gives no detrimental effects other than increased cost. Cost data and several pages of bacteriological data obtained under varied operating conditions are given.

Ultra-violet rays; their advantages and disadvantages in the purification of drinking water. Spencer, R. R., J. Am. Water Works Assn., vol. 4, pp. 172-182, 1917.—A very complete discussion and history regarding ultra-violet rays is given, and results obtained at the laboratory of the Sanitary District of the Great Lakes are shown to be exceedingly good. The use of this method of water purification is recent and is considered especially good for circulating systems and relatively small installations. For municipal supplies its expense is probably prohibitive. An overdosage is impossible, nor is the water changed in any way chemically. Turbidity in the water and accumulations on the lamps greatly impair the efficiency of the process.

The use of ultra-violet rays in sterilizing water. Am. City, vol. 17, pp. 239-241, 1917.—Five lamps per million gallons of water allow a large factor of safety. At Henderson, Ky., with current at about \$0.01 per kilowatt hour, and 15 lamps in use, the cost is \$0.88 per million gallons.

Ultra-violet ray sterilization of water. Dallyn, F. A., and Parkin-
son, N. F., Annual Report of the Provincial Board of Health, Ontario,
Canada, 1914; Can. Engr., vol. 29, pp. 686-692, 1915.—Ultra-violet
rays should preferably be applied to water free from turbidity or
filtered. Experiments are detailed on sewage-infected tap water.
With turbidity 5 to 20 parts per million, bacterial removal was over
97 per cent; with turbidity 20-50 p. p. m. bacterial removal was from
94 to 97 per cent. The lamps used were of 110 and 500 volts. Dallyn
concludes that ultra-violet rays afford protection against irregularities
of filters, with freedom from taste or odor in case of overdose.

The bactericidal action of ultra-violet rays. De Voogt, J. G., Delft.
Z. Hyg., vol. 81, pp. 62-68, 1916.—The following conclusions of
Henri and Cernovodeanu were confirmed: The bactericidal action
of ultra-violet rays on drinking water is proportional to the depth of
the unit of water exposed. It is uninfluenced by the temperature
(0°-55°) and oxygen content of the water. The formation of H_2O_2 is
not necessary to produce sterilization. Different bacteria require
different amounts of light. The most active part of the rays lies
at about 280 $\mu\mu$.¹

Development of ultra-violet water disinfection. Anon., Eng. News,
vol. 74, pp. 634-636, 1915.—The 320 plants installed or approaching

¹ De Voogt has not quoted correctly the French authors, Cernovodeanu and Henri (Comptes rendus Ac. d. Sc., vol. 150, p. 54). The original of these French authors reads: "Par conséquent, les rayons ultra-violets, de beaucoup les plus bactéricides, sont ceux qui ont une longueur d'onde au-dessous de 2,900 unités Angström."

That is, according to these authors the rays which are most active as bactericides are those which have wave lengths of under 280 $\mu\mu$.

completion in the United States comprise 20 for swimming pools. The cost is about \$750 per 1,000 gallons per hour capacity for machines of 200 to 3,000 gallons per hour and \$900 for those of 60 to 120 gallons per hour capacity. Direct current is used at 110 to 500 volts. For swimming tanks a pressure filter is used, followed by sterilization.

Ultra-violet rays and their application for sterilization of water. Von Recklinghausen, M., J. Frank. Inst., vol. 178, pp. 681-704, 1914; J. Am. Water Works Assn., vol. 1, pp. 565-588; Chemical Abstracts, vol. 8, p. 3830.

Germ-destroying power of ultra-violet rays applied to sterilization of water and disinfection of trade packages in breweries. Moufang, E. Kirn. a. d. Nahe. Allgem. Z. Bierbrau. Malzfab., vol. 43, pp. 151-155, 1915.—From his experiments Moufang concludes that by the application of ultra-violet rays for sterilizing barrels (by means of a specially constructed quartz lamp which could be moved through the bunghole) the biological condition of pitched barrels may be greatly improved, but that perfect sterilization in a biological sense is not obtained by the present appliances.

A method for drawing off liquid in a thin layer in connection with sterilization by ultra-violet rays. Billon-Daguerre, Compt. rend. Ac. d. Sc., vol. 161, pp. 18-20, 1915.—After passing through a filter the water to be sterilized enters a tank from which it passes out through a cylinder provided with opening slots on opposite sides. The quartz lamps are placed close to these slots, thereby forming a narrow opening between the lamps and the cylinder through which the water must pass in order to emerge. The apparatus may be mounted on an auto truck for use in military sanitation.

Water sterilization by ultra-violet rays. Seager, J. A., Municipal Engr., vol. 45, pp. 415-418.—There are required 160-165 watt hours per 1,000 imperial gallons of water.

Water treatment by the aid of ultra-violet rays. Schwarz, L., and Aumann, J. Gasbel, vol. 56, pp. 520-522; cf. Chemical Abstracts, vol. 7, p. 1069.—Various lamps, their methods of control, and their efficiency are discussed. Certain deficiencies of the various apparatus are pointed out, as well as the great importance of this method of water treatment.

The sterilization of water by the aid of ultra-violet rays with a mercury-vapor lamp. Ebert, F. A., Gesundh. Ing., vol. 37, p. 170-171.—Technical description of the sterilization apparatus "industry."

The sterilization of water with ultra-violet rays. Silbermann, A., Univer. Bern. Z. Hyg., vol. 77, pp. 189-216.—In a specially constructed apparatus, running water infected with pathogenic and saprophytic bacteria was exposed to ultra-violet rays. In nearly all cases sterile water was produced. The amount of turbidity and

color apparently had no effect, although the amount of colloidal substances did have. The rate of flow had some influence, the degree of which depended on the quality of the water.

Sterilization of water by ultra-violet rays of the mercury-vapor quartz lamp. Von Recklinghausen, M., Proc. Am. Inst. Elec. Eng., vol. 33, p. 1048.—To obtain ultra-violet rays economically it is important to study the temperature of the luminous part of the lamp. Ultra-violet power is measured by physiological, chemical, or bacteriological reactions. Von Recklinghausen describes the historical development of the Hg lamp and the pistol lamp for large sterilizing units. Different germs show different sensitivity to ultra-violet rays, though all are destroyed on short exposure. Ultra-violet rays increase proportionately more with lamp voltage than the blue or green rays to a point above which quartz devitrifies.

Sterilization of water by ultra-violet rays of the mercury-vapor quartz lamp. Von Recklinghausen, M. Discussion. Proc. Am. Inst. Elec. Eng., vol. 33, p. 1906, 1914.—The inverse square law holds true in the case of ultra-violet rays used for water sterilization if some correction is made for the line shape of the source and for some absorption in the air. Water as it comes from a modern mechanical filter may be considered perfectly clear to the action of the rays. Such water may be treated at a total cost of \$0.60 per million gallons. While chemical treatment may be somewhat cheaper, considering the expert attention required, any increased cost would be offset by a cleaner, chemical-free H₂O. Typhoid records from certain European towns show a total absence of this disease since ultra-violet-ray sterilization was introduced. Regarding competition with O₃, a comparative test run at Genoa for six months showed an equal cost for power, but a higher first cost and operating cost for the O₃ equipment.

Violet-ray sterilization for Niagara Falls filters. Anon., Eng. Record, vol. 69, p. 701.—Pistol lamps, 7 in each of 5 concrete canals, will be used to sterilize 16 million gallons daily. The cost of the canals and lamp installation will be \$19,800. Approximate costs per million gallons for maintenance are guaranteed as follows: Current, 7 cents; lamp renewals, based on a 2,900 hour life, 60 cents. About 1 grain per gallon of coagulant and 5 pounds of bleach per million gallons have been used, the total cost of chemicals being about \$1.50 per million gallons. It is hoped to cut down the chemical by half, thereby making the ultra-violet treatment economical.

Purification of water by ultra-violet rays. Von Recklinghausen, M., J. Am. Water Works Association, vol. 1, pp. 565-588; cf. Chemical Abstracts, vol. 8, p. 2847.—Pistol lamps with U-tubes, immersed in the water which flows through a flume, are used at Luneville, St. Malo, and Rouen, France, with high bacterial efficiency. A complete historical and theoretical discussion is given.

THE ROUTINE WASSERMANN.

The collection of accurate statistics in regard to the prevalence of syphilis is such an important matter in venereal disease control that every effort should be made to accumulate such data.

The making of routine Wassermann reactions upon patients admitted to general hospitals is a practical way of obtaining authentic information. Considering the necessity and importance of data in regard to the prevalence of syphilis, hospitals are justified in making the Wassermann test as much of a routine procedure as other blood examinations, unless there is some specific contraindication.

It may not be practicable to require that all apparently healthy children admitted to hospitals for minor corrective operations undergo the test; but with these and like exceptions, and excepting in cases of acute illness when the procedure would be detrimental to the patient, the making of a routine Wassermann test is a desirable measure.

E. T. Burke, M. D., Ch. B., advocating what he terms a "venereal offensive" in an article in the London Lancet, makes the following suggestion in regard to venereal control measures in England:

"To estimate the strength of the enemy is a necessary preliminary to an assault. The more accurate the estimate, the brighter are the prospects of success. One valuable measure would be the performance of a Wassermann on every patient admitted to hospital.

"At the present day, on account of the prevalence of syphilis, this is an essential routine. It should be as invariable a rule that a Wassermann test should be done as that the urine should be examined. Not the least valuable effect of this would be that the results would furnish us with a more accurate index as to the prevalence of the disease. Were it continued for a period of years, it would indicate whether or not any progress was being made toward eradicating syphilis from the community. The first effect produced where this routine has been adopted has been to cause a feeling of astonishment at the large percentage of positive results. An examination of figures from [a few] American hospitals shows that on an average 19 per cent of patients admitted, not apparently suffering from syphilis, give a positive result. We can not hope that our experience in England would be in any way different. We would at once discover an immense hospital population suffering from undiagnosed, untreated, and unsuspected syphilis. It is they who recruit the ranks of locomotor ataxia, aneurysm, and general paralysis of the insane; they form the 60,000 annual victims.

"It is more important to do a Wassermann on a patient admitted for a fractured femur than on one suffering from lightning pains and

whose knee jerks are gone. As a diagnostic aid or as an indication for treatment it is, in the latter case, practically a waste of time. If in the former case the result is positive, antisyphilitic treatment would have a twofold effect. It would hasten the repair of the fracture, and would, in addition, greatly limit the liability of the patient to be readmitted some years later suffering from the quaternary stage of syphilis. A great use of the Wassermann is to be found in its application to cases where syphilis is unthought of.

"The laboratories for the performance of the test are in practically every hospital. New ones are springing up all over the country. Competent workers are being trained. Here, then, we have ready everything essential to making a practical attack upon communal syphilis. When the routine Wassermann is done upon every hospital patient a real and great step will have been taken toward dealing with what is undoubtedly the largest and most vital problem in public health work to-day."

DEATHS DURING WEEK ENDED NOV. 29, 1919.

From the "Weekly Health Index" Dec. 2, 1919, issued by the Bureau of the Census, Department of Commerce.

Deaths from all causes in certain large cities of the United States during the week ended Nov. 29, 1919, infant mortality (per cent), annual death rates, and comparison with corresponding week of preceding years.

City.	Population July 1, 1918, es- timated.	Week ended Nov. 29, 1919.		Average annual death rate per 1,000. ²	Per cent of deaths under 1 year.	
		Total deaths.	Death rate. ¹		Week ended Nov. 29, 1919.	Previous year or years. ³
Albany, N. Y.	112,565	31	14.4	C 12.7	6.5	C 14.8
Atlanta, Ga.	201,732	55	14.2	C 15.2	7.3	C 3.5
Baltimore, Md.	3669,981	195	15.2	A 16.4	11.8	A 15.3
Birmingham, Ala.	197,670	42	11.1	A 17.6	11.9	A 11.3
Boston, Mass.	785,245	208	13.8	A 15.5	17.3	A 13.7
Buffalo, N. Y.	473,229	120	13.2	A 11.6	15.0	A 18.6
Cambridge, Mass.	111,432	31	14.5	A 14.6	19.4	A 15.0
Chicago, Ill.	2,596,681	579	11.6	A 12.9	15.2	A 17.0
Cincinnati, Ohio	418,022	129	16.1	C 16.1	9.3	C 13.3
Cleveland, Ohio	810,306	145	9.3	C 11.7	13.8	C 13.7
Columbus, Ohio	225,296	60	13.9	C 10.0	16.7	C 2.4
Dayton, Ohio	130,655	30	12.0	A 14.8	16.7	A 13.5
Denver, Colo.		60		A 13.3	13.3	
Fall River, Mass.	128,392	34	13.8	C 12.7	23.5	C 38.7
Grand Rapids, Mich.	135,450	27	10.4	C 12.6	11.1	C 12.5
Indianapolis, Ind.	290,389	81	14.5	C 15.7	7.4	C 11.8
Jersey City, N. J.	318,770	69	11.3	C 14.2	11.6	C 20.0
Kansas City, Mo.	313,785	80	13.3	C 13.6	7.5	C 6.3
Los Angeles, Calif.	568,495	138	12.7	A 14.2	7.2	A 12.1
Louisville, Ky.	242,707	53	11.4	C 16.9	13.2	C 11.5
Lowell, Mass.	109,081	23	11.0	A 12.7	30.4	A 10.6
Memphis, Tenn.	154,759	71	23.9	C 16.5	5.6	C 6.3
Milwaukee, Wis.	453,481	85	9.8	A 11.4	17.6	A 18.8
Minneapolis, Minn.	383,442	60	8.2	C 10.2	16.7	C 17.8
Nashville, Tenn.	119,215	39	17.1	C 13.2	7.7	C 3.3
Newark, N. J.	428,684	98	11.9	A 13.4	15.3	
New Haven, Conn.	154,865	25	8.4	C 17.5	12.0	C 17.6
New Orleans, La.	382,273	117	16.0	A 21.3	7.7	A 12.0
New York, N. Y.	5,215,879	1,280	12.8	A 14.1	12.4	A 15.2
Oakland, Calif.	214,206	42	10.2	A 12.0	14.3	A 10.5
Omaha, Nebr.	180,264	33	9.5	C 12.4	9.1	C 10.0
Philadelphia, Pa.	1,761,371	419	12.4	A 14.7	13.8	12.9
Pittsburgh, Pa.	593,303	138	12.1	C 18.9	14.5	C 17.4
Portland, Oreg.		61		C 10.5	13.1	C 16.1
Providence, R. I.	263,613	69	13.6	C 14.7	10.1	C 13.7
Richmond, Va.	160,719	63	20.4	C 16.1	4.8	C 14.3
Rochester, N. Y.	264,856	60	11.8	C 13.7	8.3	C 10.3
St. Louis, Mo.	779,951	161	10.8	C 13.4	6.8	C 9.1
St. Paul, Minn.	257,699	62	12.5	C 12.4	6.5	C 8.3
San Francisco, Calif.	478,530	135	14.7	C 15.6	5.9	C 2.8
Seattle, Wash.		61		A 7.3	14.8	A 6.9
Spokane, Wash.		17		C 6.3	23.5	C 5.3
Syracuse, N. Y.	161,404	34	11.0	C 18.1	11.8	C 10.9
Toledo, Ohio	262,234	55	10.9	A 13.1	14.5	A 15.4
Washington, D. C.	401,681	116	15.1	A 16.5	12.9	A 11.0
Worcester, Mass.	173,650	45	13.5	C 15.9	22.2	C 25.0

¹ Annual rates per 1,000 estimated 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 1917.

³ Population estimated as of July 1, 1919.

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

Summary of information received by telegraph from industrial insurance companies for week ended Nov. 29, 1919.

Policies in force.....	41,562,561
Number of death claims.....	6,341
Death claims per 1,000 policies in force, annual rate.....	8.0

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 Dec. 6, 1919.

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

ALABAMA.

Cases.

Diphtheria.....	30
Influenza.....	9
Malaria.....	7
Measles.....	12
Pellagra.....	3
Scarlet fever.....	16
Smallpox.....	37
Tuberculosis.....	15
Typhoid fever.....	7
Venerel diseases.....	143
Whooping cough.....	3

ARKANSAS.

Cerebrospinal meningitis.....	1
Chancroid.....	7
Chicken pox.....	39
Diphtheria.....	78
Hookworm.....	2
Gonorrhea.....	48
Influenza.....	26
Malaria.....	155
Measles.....	2
Ophthalmia neonatorum.....	1
Pellagra.....	6
Pneumonia.....	4
Scarlet fever.....	70
Smallpox.....	29
Syphilis.....	24
Trachoma.....	6
Tuberculosis.....	37
Typhoid fever.....	35
Whooping cough.....	65

CALIFORNIA.

Cerebrospinal meningitis:	Cases.
San Francisco.....	1
Beriberi:	
San Francisco.....	2
Influenza.....	29
Lethargic encephalitis:	
Berkley.....	1
Los Angeles.....	1
San Francisco.....	3
Stockton.....	1
Smallpox:	
Humboldt County.....	7
Los Angeles.....	8
Manteca.....	4
Napa County.....	6
Napa.....	12
Riverside County.....	4
San Francisco.....	4
Scattering.....	16
Typhoid fever:	
Los Angeles.....	8
Scattering.....	7

CONNECTICUT.

Chicken pox.....	74
Conjunctivitis (infectious).....	1
Diphtheria:	
Fairfield County—	
Bridgeport.....	14
Hartford County—	
Hartford.....	11
New Britain.....	4
Southington.....	4

CONNECTICUT—continued.

	Cases.
Diphtheria—Continued.	
New Haven County—	
Derby.....	4
New Haven.....	17
Waterbury.....	20
Scattering.....	40
Erysipelas.....	1
Favus.....	3
Gonorrhea.....	34
Impetigo contagiosa.....	14
Influenza.....	2
Measles:	
Fairfield County—	
Bridgeport.....	14
Stamford.....	19
Stratford.....	5
Hartford County—	
East Hartford.....	7
New Haven County—	
Milford.....	4
New Haven.....	69
Orange.....	4
Waterbury.....	4
Windham County—	
Plainfield.....	11
Scattering.....	15
Measles (German).....	1
Mumps.....	17
Paratyphoid fever.....	1
Pneumonia.....	9
Scarlet fever:	
Fairfield County—	
Greenwich.....	19
Hartford County—	
Hartford.....	20
New Britain.....	9
New Haven County—	
Ansonia.....	4
Meriden.....	6
New Haven.....	10
Wallingford.....	4
Waterbury.....	12
Scattering.....	31
Septic sore throat.....	2
Syphilis.....	66
Tuberculosis.....	31
Typhoid fever.....	4
Whooping cough.....	53
DELAWARE.	
Chicken pox.....	3
Diphtheria:	
Wilmington.....	6
Scattering.....	3
Erysipelas.....	1
Influenza.....	1
Measles.....	5
Pneumonia.....	3
Scarlet fever:	
Wilmington.....	5
Scattering.....	4
Smallpox.....	8
Tuberculosis.....	5
Typhoid fever.....	3

FLORIDA.

	Cases.
Diphtheria.....	16
Dysentery.....	2
Influenza.....	8
Malaria.....	70
Pneumonia.....	5
Poliomyelitis:	
Hillsboro County.....	1
Scarlet fever.....	3
Typhoid fever.....	12
GEORGIA.	
Cerebrospinal meningitis.....	2
Chicken pox.....	7
Conjunctivitis (acute infectious).....	2
Diphtheria.....	84
Dysentery (amebic).....	2
Gonorrhea.....	102
Hookworm.....	7
Influenza.....	21
Malaria.....	33
Measles.....	17
Measles (German).....	1
Mumps.....	1
Paratyphoid fever.....	1
Pneumonia.....	36
Scarlet fever.....	34
Septic sore throat.....	15
Smallpox.....	14
Syphilis.....	93
Trachoma.....	2
Tuberculosis (pulmonary).....	18
Tuberculosis (other forms).....	2
Typhoid fever.....	22
Whooping cough.....	15
ILLINOIS.	
Cerebrospinal meningitis:	
Chicago.....	1
East St. Louis.....	1
West Frankfort.....	1
Chancroid.....	18
Diphtheria:	
Belleville.....	9
Chicago.....	248
Chicago Heights.....	4
Collinsville.....	8
Granite City.....	4
Madison.....	7
Peoria.....	12
Scattering.....	52
Gonorrhea.....	322
Influenza:	
Buda.....	3
Chicago.....	64
Scattering.....	9
Lethargic encephalitis:	
Aurora.....	2
Chicago.....	3
Scarlet fever:	
Chicago.....	261
Peoria.....	14
Scattering.....	73

ILLINOIS—continued.

	Cases.
Smallpox:	
Greene County—	
Athensville Township.....	6
Monmouth.....	36
Roodhouse.....	6
Scattering.....	25
Syphilis.....	249
Typhoid fever.....	35

INDIANA.

Cerebrospinal meningitis:	
Daviess County.....	1
Perry County.....	1
Chancroid.....	36
Diphtheria:	
Daviess County.....	4
Lake County.....	21
Madison County.....	12
Vigo County.....	5
Scattering.....	49
Gonorrhea.....	491
Influenza:	
Floyd County.....	5
Miami County.....	4
Perry County.....	4
Scattering.....	19
Poliomyelitis:	
Ohio County.....	1
Rabies in animals:	
Scarlet fever:	
Boone County.....	8
Cass County.....	9
Decatur County.....	15
Delaware County.....	12
Gibson County.....	5
Grant County.....	4
Jasper County.....	6
Jay County.....	5
Lake County.....	12
La Porte County.....	6
Madison County.....	4
Marion County.....	16
Ripley County.....	13
Rush County.....	12
Shelby County.....	6
Wayne County.....	5
White County.....	4
Scattering.....	48
Smallpox:	
Fountain County.....	5
Gibson County.....	4
Huntington County.....	6
La Porte County.....	4
Madison County.....	13
Montgomery County.....	11
Spencer County.....	4
St. Joseph County.....	11
Vigo County.....	18
Warrior County.....	6
Scattering.....	18
Syphilis.....	232
Typhoid fever:	
Clay County.....	4
Lake County.....	9
Scattering.....	18

IOWA.

Cases.

Chancroid.....	6
Diphtheria:	
Davenport.....	4
Des Moines.....	4
Scattering.....	15
Gonorrhea.....	91
Influenza:	
Cedar Rapids.....	2
Measles:	
Mason City.....	8
Mumps.....	3
Scarlet fever:	
Des Moines.....	15
Earlville.....	5
Pottawattamie County.....	4
Scattering.....	16
Smallpox:	
Audubon County.....	4
Cedar Falls.....	6
Davenport.....	26
Shelby County.....	7
Scattering.....	10
Syphilis.....	21

LOUISIANA.

Cerebrospinal meningitis.....	1
Chancroid.....	15
Diphtheria.....	21
Gonorrhea.....	88
Influenza.....	9
Plague (bubonic).....	2
Scarlet fever.....	8
Syphilis.....	2
Typhoid fever.....	17
Yellow fever.....	1

MAINE.

Chicken pox.....	5
Conjunctivitis.....	3
Diphtheria:	
Brunswick.....	1
Scattering.....	9
Gonorrhea.....	21
Influenza.....	1
Measles.....	1
Mumps.....	2
Scarlet fever:	
Lewiston.....	4
Portland.....	8
Wilton.....	4
Scattering.....	13
Smallpox.....	10
Syphilis.....	17
Tuberculosis.....	6
Typhoid fever.....	5
Whooping cough.....	23

MASSACHUSETTS.

Chicken pox.....	29
Conjunctivitis (suppurative).....	8
Diphtheria.....	27
Gonorrhea.....	173
Influenza.....	15
Ma'aria.....	2
Measles.....	50
Measles (German).....	11

December 12, 1919.

MASSACHUSETTS—continued.

	Cases.
Mumps.....	187
Ophthalmia neonatorum.....	25
Pneumonia (lobar).....	86
Scarlet fever.....	313
Septic sore throat.....	6
Syphilis.....	75
Trachoma.....	1
Tuberculosis (pulmonary).....	139
Tuberculosis (other forms).....	32
Typhoid fever.....	12
Whooping cough.....	209

MINNESOTA.

Chancroid.....	2
Gonorrhea.....	76
Poliomyelitis.....	1
Smallpox (new foci):	
Bigstone County—	
Graceville Village.....	1
Faribault County—	
Frost Village.....	2
Hennepin County—	
Browndale Village.....	1
Madina Township.....	17
Itasca County—	
Deer River Village.....	1
Martin County—	
Silver Lake Township.....	1
Otter Tail County—	
Maplewood Township.....	1
Wabasha County—	
Chester Township.....	1
Wadena County—	
Wing River Township.....	1
Syphilis.....	33

MONTANA.

Diphtheria.....	6
Influenza.....	4
Scarlet fever.....	47
Septic sore throat.....	1
Smallpox.....	27
Typhoid fever.....	5

NEW JERSEY.

Influenza.....	26
Pneumonia.....	104

NEW MEXICO.

Chancroid.....	1
Chicken pox.....	8
Diphtheria:	
Carizzozo.....	4
Scattering.....	3
Dysentery.....	2
Gonorrhea.....	7
Influenza.....	1
Measles.....	2
Measles (German).....	1
Mumps.....	4
Pneumonia.....	3
Scarlet fever:	
Hagerman.....	3
Clovis.....	4
Scattering.....	6
Smallpox.....	6
Syphilis.....	2

NEW MEXICO—continued.

	Cases.
Trachoma.....	1
Tuberculosis.....	35
Typhoid fever.....	6
Whooping cough.....	1

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis:

Buffalo.....	2
Highland Falls.....	1
New Rochelle.....	1
Ossining.....	1
Waverly.....	1
Yonkers.....	1
Diphtheria.....	361
Gonorrhœa.....	87
Influenza.....	39
Measles.....	318
Pneumonia.....	136
Scarlet fever.....	258
Smallpox.....	4
Syphilis.....	162
Typhoid fever.....	22
Whooping cough.....	295

NORTH CAROLINA.

Cerebrospinal meningitis.....	3
Chancroid.....	7
Chicken pox.....	70
Diphtheria.....	130
Gonorrhœa.....	95
Measles.....	46
Measles (German).....	6
Ophthalmia neonatorum.....	1
Pneumonia (broncho).....	18
Poliomyelitis.....	20
Scarlet fever.....	1
Septic sore throat.....	65
Smallpox.....	32
Syphilis.....	37
Typhoid fever.....	22
Whooping cough.....	113

OHIO.

Diphtheria:	
Cincinnati.....	32
Crestline.....	13
Columbus.....	33
Portsmouth.....	26
Steubenville.....	15
Scarlet fever:	
Akron.....	24
Cincinnati.....	43
Columbus.....	37
Norwalk.....	14
Smallpox:	
Steubenville.....	18
Typhoid fever:	
Lima.....	20

VERMONT.

Chicken pox.....	48
Diphtheria.....	1
Influenza.....	1
Measles.....	46

VERMONT—continued.

	Cases.
Measles (German).....	7
Mumps.....	53
Scarlet fever.....	15
Typhoid fever.....	1
Whooping cough.....	75

VIRGINIA.

	Cases.
Smallpox:	
Bedford County.....	3
York County.....	1
WASHINGTON.	
Chicken pox.....	122
Diphtheria.....	30
Measles.....	51
Mumps.....	36
Pneumonia.....	1
Scarlet fever.....	63
Smallpox.....	155
Tuberculosis.....	7
Typhoid fever.....	4
Whooping cough.....	20

WEST VIRGINIA.

	Cases.
Diphtheria:	
Charleston.....	5
Fairmont.....	4
Huntington.....	4
Martinsburg.....	9
Scattering.....	18
Measles.....	3
Scarlet fever:	
Clarksburg.....	9
Scattering.....	21

WEST VIRGINIA—continued.

	Cases.
Smallpox:	
Williamson.....	1
Scattering.....	5

WISCONSIN.

	Cases.
Milwaukee:	
Cerebrospinal meningitis.....	1
Chicken pox.....	84
Diphtheria.....	40
Erysipelas.....	3
Measles.....	11
Poliomyelitis.....	1
Scarlet fever.....	30
Smallpox.....	8
Tuberculosis.....	4
Typhoid fever.....	1
Whooping cough.....	8

	Cases.
Scattering:	
Cerebrospinal meningitis.....	1
Chancroid.....	3
Chicken pox.....	56
Diphtheria.....	27
Gonorrhea.....	62
Influenza.....	2
Measles.....	37
Poliomyelitis.....	2
Scarlet fever.....	76
Smallpox.....	169
Syphilis.....	13
Tuberculosis.....	7
Typhoid fever.....	3
Whooping cough.....	29

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

Tables showing by counties the reported cases of cerebrospinal meningitis, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as received.

State.	Cerebro-spinal menin-gitis.	Diph-theria.	Malaria.	Meas-sles.	Pel-lagra.	Polio-mye-litis.	Scarlet fever.	Small-pox.	Ty-phi-fer.
Alabama (October).....	4	283	274	10	44	4	120	23	94
Arkansas (January).....	4	10	108	40	3	.....	10	33	16
Arkansas (February).....	1	23	92	128	2	.....	9	81	13
Arkansas (March).....	4	19	154	123	44	.....	15	111	13
Arkansas (April).....	.....	11	218	168	12	.....	12	82	5
Arkansas (May).....	6	.....	233	69	18	.....	8	85	2
Arkansas (June).....	.....	6	411	8	58	3	13	31	20
Arkansas (September).....	4	60	549	9	21	1	67	6	99
Arkansas (October).....	1	227	958	11	40	1	155	15	139
Colorado (October).....	2	76	.....	5	.....	6	60	180	45
Hawaii (October).....	.....	14	.....	8	.....	.....	.....	.....	20
Idaho (October).....	.....	9	.....	2	.....	1	20	315	26
Pennsylvania (October).....	18	2,567	1	1,760	.....	14	1,352	6	532

ANTHRAX.

Boston, Mass.—Week Ended Nov. 22, 1919.

During the week ended November 22, 1919, two cases of anthrax were reported at Boston, Mass.

CEREBROSPINAL MENINGITIS.**Monthly State Reports, 1919.**

Place.	New cases reported.	Place.	New cases reported.
Alabama (October):		Arkansas (September):	
Houston County.....	1	Conway County.....	1
Jefferson County.....	1	Crawford County.....	1
Montgomery County.....	1	Lee County.....	1
Talladega County.....	1	Sebastian County.....	1
Total.....	4	Total.....	4
Arkansas (January):		Arkansas (October):	
Faulkner County.....	1	Baxter County.....	1
Lee County.....	1	Colorado (October):	
Washington County.....	1	Denver.....	2
Woodruff County.....	1		
Total.....	4		
Arkansas (February):		Pennsylvania (October):	
Washington County.....	1	Allegheny County.....	3
		Columbia County.....	1
Arkansas (March):		Delaware County.....	2
Crawford County.....	1	Lancaster County.....	1
Cross County.....	1	Luzerne County.....	1
Madison County.....	2	Philadelphia County.....	5
Total.....	4	Schuylkill County.....	2
Arkansas (May):		Westmoreland County.....	3
Sebastian County.....	3	Total.....	18
White County.....	3		
Total.....	6		

City Reports for Week Ended Nov. 22, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	1	1	Green Bay, Wis.....		1
Arlington, Mass.....	1	1	Hackensack, N. J.....	1	
Ashland, Ky.....	1	1	Hartford, Conn.....	1	
Baltimore, Md.....	1	1	Leominster, Mass.....	1	1
Billings, Mont.....	1	1	Milwaukee, Wis.....	2	1
Boston, Mass.....	3	1	Monessen, Pa.....	1	
Buffalo, N. Y.....	1	1	New York, N. Y.....	5	1
Chattanooga, Tenn.....	1	1	Omaha, Nebr.....	1	1
Chicago, Ill.....	2	2	Orange, N. J.....	1	
Colorado Springs, Colo.....	1	1	Philadelphia, Pa.....	2	2
Detroit, Mich.....	3	1	Sacramento, Calif.....	1	
Duluth, Minn.....	1	1	Salt Lake City, Utah.....	1	
Fremont, Nebr.....	1	1	Scranton, Pa.....	1	
Gardner, Mass.....	1	1	Superior, Wis.....		1

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 2838; Monthly summaries by States, p. 2842; and Weekly reports from cities, p. 2854.

INFLUENZA.**Cases Reported by State Health Officers, Week Ended Dec. 6, 1919.**

	Cases.	Cases.	
Alabama.....	9	Louisiana.....	9
Arkansas.....	26	Maine.....	1
California.....	29	Massachusetts.....	43
Connecticut.....	2	Montana.....	4
Delaware.....	1	New Jersey.....	26
Florida.....	8	New Mexico.....	1
Georgia.....	21	New York (exclusive of New York City).....	39
Illinois.....	76	Vermont.....	1
Indiana.....	32	Wisconsin.....	2
Iowa.....	2		

LEPROSY.**Los Angeles, Calif., and New Orleans, La.**

During the week ended November 22, 1919, one case of leprosy was reported at Los Angeles, Calif., and two cases were reported at New Orleans, La.

LETHARGIC ENCEPHALITIS.**San Francisco, Calif.—Week Ended Nov. 22, 1919.**

During the week ended November 22, 1919, two deaths from lethargic encephalitis were reported at San Francisco, Calif.

MALARIA.**Monthly State Reports, 1919.**

Place.	New cases reported.	Place.	New cases reported.
Alabama (October):		Arkansas (March):	
Barbour County.....	2	Ashley County.....	27
Bullock County.....	1	Bradley County.....	29
Butler County.....	2	Clark County.....	24
Choctaw County.....	1	Drew County.....	5
Covington County.....	1	Izard County.....	8
Cullman County.....	1	Jefferson County.....	3
Geneva County.....	3	Lee County.....	8
Greene County.....	116	Monroe County.....	8
Hale County.....	1	Ouachita County.....	28
Henry County.....	23	Pope County.....	2
Houston County.....	26	Saline County.....	2
Jefferson County.....	13	Scott County.....	2
Lauderdale County.....	1	St. Francis County.....	6
Lowndes County.....	1	Woodruff County.....	2
Madison County.....	5	Total.....	151
Marengo County.....	3		=====
Monroe County.....	1	Arkansas (April):	
Montgomery County.....	8	Ashley County.....	47
Pickens County.....	21	Bradley County.....	76
Pike County.....	1	Clark County.....	17
St. Clair County.....	1	Drew County.....	3
Sumter County.....	1	Garland County.....	1
Talladega County.....	4	Hot Spring County.....	4
Tallapoosa County.....	25	Jefferson County.....	4
Walker County.....	12	Lee County.....	9
Total.....	271	Mississippi County.....	11
Arkansas (January):		Monroe County.....	11
Ashley County.....	7	Ouachita County.....	3
Bradley County.....	44	Perry County.....	2
Faulkner County.....	14	St. Francis County.....	20
Jefferson County.....	2	White County.....	4
Lee County.....	9	Woodruff County.....	3
Madison County.....	1	Total.....	218
Monroe County.....	20		=====
Perry County.....	4	Arkansas (May):	
Sebastian County.....	1	Ashley County.....	34
White County.....	6	Bradley County.....	92
Total.....	108	Chicot County.....	1
Arkansas (February):		Faulkner County.....	3
Arkansas County.....	1	Garland County.....	1
Ashley County.....	8	Izard County.....	5
Benton County.....	40	Jefferson County.....	6
Bradley County.....	12	Lee County.....	9
Lee County.....	6	Mississippi County.....	41
Monroe County.....	2	Monroe County.....	25
Ouachita County.....	17	Nevada County.....	1
Perry County.....	2	Perry County.....	4
Saline County.....	2	Saline County.....	2
St. Francis County.....	2	Scott County.....	2
Total.....	92	St. Francis County.....	7

MALARIA—Continued.**Monthly State Reports, 1919—Continued.**

Place.	New cases reported.	Place.	New cases reported.
Arkansas (June):		Arkansas (October):	
Ashley County.....	39	Ashley County.....	17
Bradley County.....	68	Baxter County.....	1
Cross County.....	10	Bradley County.....	133
Faulkner County.....	7	Calhoun County.....	7
Garland County.....	2	Carroll County.....	1
Hemstead County.....	4	Chicot County.....	35
Izard County.....	6	Clark County.....	13
Jefferson County.....	9	Clay County.....	7
Lafayette County.....	3	Cleburne County.....	4
Lee County.....	31	Conway County.....	2
Mississippi County.....	86	Craighead County.....	10
Monroe County.....	38	Crittenden County.....	17
Nevada County.....	11	Cross County.....	35
Newton County.....	2	Drew County.....	10
Ouachita County.....	3	Faulkner County.....	4
Perry County.....	2	Franklin County.....	12
Saline County.....	23	Independence County.....	16
St. Francis County.....	52	Jefferson County.....	31
White County.....	10	Lafayette County.....	4
Total.....	411	Lawrence County.....	10
Arkansas (September):		Lee County.....	70
Ashley County.....	34	Little River County.....	3
Bradley County.....	130	Logan County.....	5
Calhoun County.....	17	Lonoke County.....	18
Chicot County.....	4	Miller County.....	7
Clark County.....	23	Mississippi County.....	12
Cleburne County.....	4	Monroe County.....	6
Conway County.....	4	Ouachita County.....	92
Drew County.....	19	Perry County.....	8
Faulkner County.....	15	Pope County.....	10
Garland County.....	3	Prairie County.....	17
Hemstead County.....	1	Pulaski County.....	31
Hot Spring County.....	5	Saline County.....	37
Izard County.....	3	Sebastian County.....	13
Jefferson County.....	9	Sevier County.....	100
Lafayette County.....	2	Sharp County.....	3
Lee County.....	63	St. Francis County.....	65
Logan County.....	14	Union County.....	10
Lonoke County.....	13	Washington County.....	36
Mississippi County.....	17	White County.....	14
Monroe County.....	6	Woodruff County.....	3
Ouachita County.....	22	Yell County.....	6
Pulaski County.....	31	Total.....	958
Saline County.....	18	Pennsylvania (October):	
Scott County.....	4	Allegheny County.....	1
St. Francis County.....	70		
Washington County.....	8		
White County.....	10		
Total.....	549		

City Reports for Week Ended Nov. 22, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La.....	6	.....	Memphis, Tenn.....	.....	1
Baltimore, Md.....	1	.....	Rochester, N. Y.....	.....	1
Brunswick, Ga.....	.....	1	Rome, Ga.....	4	1
Charleston, S. C.....	.....	1	Savannah, Ga.....	56	1
Columbus Ga.....	5	.....	Trenton, N. J.....	1	1
Dallas, Tex.....	7	.....	Tuscaloosa, Ala.....	3	.....

MEASLES.

See Telegraphic weekly reports from States, p. 2838; Monthly summaries by States, p. 2842; and Weekly reports from cities, p. 2854.

PELLAGRA.

Monthly State Reports, 1919.

Place.	New cases reported.	Place.	New cases reported.
Alabama (October):		Arkansas (June):	
Bullock County.....	1	Ashley County.....	5
Calhoun County.....	1	Bradley County.....	6
Covington County.....	1	Calhoun County.....	3
Etowah County.....	1	Chicot County.....	3
Houston County.....	2	Cross County.....	9
Jefferson County.....	5	Hempstead County.....	3
Limestone County.....	1	Izard County.....	1
Lowndes County.....	1	Lee County.....	5
Marion County.....	1	Lafayette County.....	1
Mobile County.....	13	Mississippi County.....	2
Montgomery County.....	4	Monroe County.....	4
Pike County.....	1	Nevada County.....	1
Sumter County.....	1	Newton County.....	3
Talladega County.....	1	Ouachita County.....	1
Tallapoosa County.....	9	Saline County.....	4
Walker County.....	1	St. Francis County.....	5
Total.....	44	Washington County.....	2
Arkansas (January):		Total.....	58
Deshs County.....	1		
Lee County.....	1	Arkansas (September):	
Madison County.....	1	Bradley County.....	2
Total.....	3	Clark County.....	8
Arkansas (February):		Garland County.....	1
Bradley County.....	1	Hempstead County.....	1
Lee County.....	1	Jefferson County.....	1
Total.....	2	Mississippi County.....	1
Arkansas (March):		Monroe County.....	1
Ashley County.....	2	Ouachita County.....	1
Bradley County.....	2	Saline County.....	1
Clark County.....	9	St. Francis County.....	1
Cross County.....	2	Washington County.....	1
Lee County.....	28	White County.....	2
St. Francis County.....	1	Total.....	21
White County.....	1		
Total.....	44	Arkansas (October):	
Arkansas (April):		Benton County.....	1
Bradley County.....	1	Baxter County.....	3
Clark County.....	3	Chicot County.....	1
Jefferson County.....	1	Craighead County.....	5
Lee County.....	3	Cross County.....	3
Mississippi County.....	1	Faulkner County.....	1
Monroe County.....	1	Independence County.....	2
Woodruff County.....	1	Izard County.....	2
Total.....	12	Jefferson County.....	1
Arkansas (May):		Lonoke County.....	3
Bradley County.....	4	Madison County.....	4
Garland County.....	1	Ouachita County.....	3
Hempstead County.....	3	Pulaski County.....	3
Lee County.....	2	Saline County.....	2
Mississippi County.....	1	Sebastian County.....	3
Monroe County.....	1	St. Francis County.....	1
St. Francis County.....	4	Washington County.....	2
White County.....	1	White County.....	1
Woodruff County.....	1	Total.....	40
Total.....	18		

December 12, 1919.

PELLAGRA—Continued.

City Reports for Week Ended Nov. 22, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.			Nashville, Tenn.		
Brunswick, Ga.	1	1	New Orleans, La.	1	1
Chicago, Ill.	1	1	Raleigh, N. C.		1
Covington, Ky.	1		Roanoke, Va.		2
Dulham, N. C.	1		Savannah, Ga.		1
Fort Wayne, Ind.	1	1	Tuscaloosa, Ala.	1	
Memphis, Tenn.					

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Nov. 22, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.	4		Fort Wayne, Ind.		2
Alexandria, Va.	1		Fort Worth, Tex.	5	5
Alton, Ill.	1	1	Galesburg, Ill.		4
Amesbury, Mass.	1	1	Gardner, Mass.	1	1
Atlanta, Ga.		5	Grand Rapids, Mich.	6	
Aurora, Ill.		1	Green Bay, Wis.		1
Baltimore, Md.	26	13	Greenfield, Mass.		2
Barberton, Ohio.		1	Hancock, Mich.	1	1
Battle Creek, Mich.	1	1	Hartford, Conn.	2	1
Bayonne, N. J.	2		Highland Park, Mich.	3	1
Beaumont, Tex.		1	Holyoke, Mass.	1	1
Beloit, Wis.		1	Huntington, W. Va.		1
Berkeley, Calif.	1		Independence, Mo.	2	2
Berlin, N. H.	2	2	Irvington, N. J.	1	
Birmingham, Ala.		7	Ishpeming, Mich.	1	1
Bloomington, Ill.		1	Ithaca, N. Y.		2
Boston, Mass.	27	14	Jamestown, N. Y.	2	
Bridgeport, Conn.		3	Jersey City, N. J.	3	
Bristol, Conn.	1		Kalamazoo, Mich.	1	
Brockton, Mass.	1		Kenkakee, Ill.	1	1
Brookline, Mass.	2		Kansas City, Kans.	5	
Buffalo, N. Y.		1	Kansas City, Mo.	12	9
Butte, Mont.	1	4	Kenosha, Wis.		2
Cairo, Ill.		1	Kewanee, Ill.		1
Cambridge, Mass.	3		Kokomo, Ind.		2
Camden, N. J.	3		Lackawanna, N. Y.		1
Charleston, S. C.		7	La Crosse, Wis.		1
Charlotte, N. C.	2	1	Leominster, Mass.	1	2
Chelsea, Mass.	1		Lexington, Ky.		1
Cheyenne, Wyo.	1		Lima, Ohio.		1
Chicago, Ill.	147	41	Long Beach, Calif.	2	2
Chicopee, Mass.		1	Los Angeles, Calif.	17	8
Chillicothe, Ohio.		1	Louisville, Ky.	6	3
Cincinnati, Ohio.		1	Lowell, Mass.	1	3
Cleveland, Ohio.	16	7	Lynn, Mass.	1	
Clinton, Mass.	1		Madison, Wis.		1
Cohoes, N. Y.	2	1	Eureka, Calif.		1
Columbus, Ga.	4		Evansville, Ind.		1
Columbus, Ohio.		5	Fall River, Mass.	1	2
Cortland, N. Y.		1	Fort Dodge, Iowa.		1
Covington, Ky.	1	1	Manitowoc, Wis.	1	1
Dallas, Tex.	8		Marquette, Mich.	1	
Danville, Ill.		2	Melrose, Mass.		1
Dayton, Ohio.	1		Memphis, Tenn.	2	3
Denver, Colo.		9	Middletown, N. Y.		1
Detroit, Mich.	35	25	Middleton, Ohio.		8
Duluth, Minn.	7	2	Milwaukee, Wis.		10
Durham, N. C.	3		Minneapolis, Minn.		
East Chicago, Ind.		3	Mobile, Ala.		
East Hampton, Mass.	1		Moline, Ill.	1	1
East Orange, N. J.	2		Montclair, N. J.	3	
East St. Louis, Ill.	1	2	Morriston, N. J.		1
Elgin, Ill.		1	Moundsville, W. Va.	1	
Elizabeth, N. J.		1	Mount Vernon, N. Y.	2	1
Elmira, N. Y.		1	Nashville, Tenn.	1	1
El Paso, Tex.		2	Newark, N. J.	24	7
Elyria, Ohio.	1		New Bedford, Mass.	1	1
Englewood, N. J.		1	New Britain, Conn.	1	1

¹ Lobar.

PNEUMONIA (ALL FORMS)—Continued.**City Reports for Week Ended Nov. 22, 1919—Continued.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
New Haven, Conn.		4	St. Joseph, Mo.		4
New Orleans, La.		5	St. Paul, Minn.		5
Newton, Mass.		1	San Diego, Calif.		1
New York, N. Y.	134	94	San Francisco, Calif.		4
Niagara Falls, N. Y.		2	Santa Cruz, Calif.		2
North Adams, Mass.		2	Saratoga Springs, N. Y.		1
Norwalk, Conn.		1	Saugus, Mass.	2	
Oakland, Calif.	5	2	Savannah, Ga.		1
Oklahoma City, Okla.		5	Schenectady, N. Y.	1	2
Omaha, Nebr.		5	Somerville, Mass.	2	
Orange, Conn.		2	Springfield, Mass.	3	4
Orange, N. J.	4	1	Springfield, Mo.		1
Owensboro, Ky.	2		Springfield, Ohio.		2
Passaic, N. J.	1	3	Staunton, Va.	2	
Paterson, N. J.	2		Steubenville, Ohio.	1	
Peoria, Ill.		5	Syracuse, N. Y.		
Petersburg, Va.		2	Taunton, Mass.	1	2
Philadelphia, Pa.	51	28	Terre Haute, Ind.		1
Pine Bluff, Ark.	1		Toledo, Ohio.		5
Piqua, Ohio.	1		Traverse City, Mich.		1
Plainfield, N. J.		1	Trenton, N. J.	1	5
Pontiac, Mich.	1		Troy, N. Y.	3	4
Port Huron, Mich.	2		Waco, Tex.	1	
Portland, Me.	2		Wakefield, Mass.		1
Portland, Ore.		6	Waltham, Mass.	2	2
Portsmouth, Va.		3	Washington, D. C.		14
Poughkeepsie, N. Y.	1		Wausau, Wis.		1
Providence, R. I.		13	Westfield, Mass.		1
Quincy, Mass.		1	West New York, N. J.		2
Racine, Wis.		2	Wheeling, W. Va.		3
Raleigh, N. C.		1	White Plains, N. Y.		1
Richmond, Va.	1	6	Wichita, Kans.		2
Riverside, Calif.		1	Winston-Salem, N. C.		4
Roanoke, Va.	1		Worcester, Mass.	7	6
Rochester, N. Y.	2	6	Yonkers, N. Y.	1	
Sacramento, Calif.		2	Youngstown, Ohio.		2
Saginaw, Mich.	1	3			

¹ Lobar.**POLIOMYELITIS (INFANTILE PARALYSIS).****Monthly State Reports, 1919.**

Place.	New cases reported.	Place.	New cases reported.
Alabama (October):		Colorado (October)—Continued.	
Calhoun County.....	1	Denver County.....	4
Jefferson County.....	3	Otero County.....	1
Total.....	4	Total.....	6
Arkansas (June):		Pennsylvania (October):	
Bradley County.....	.	Allegheny County.....	1
Izard County.....	1	Butler County.....	4
Total.....	3	Cambria County.....	1
Arkansas (September):		Dauphin County.....	1
Izard County.....	1	Delaware County.....	1
Arkansas (October):		Fayette County.....	1
White County.....	1	Indiana County.....	2
Colorado (October):		Lancaster County.....	1
Chaffee County.....	1	Philadelphia County.....	1
		Westmoreland County.....	1
		Total.....	11

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued**City Reports for Week Ended Nov. 22, 1919.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	1.....		Cleveland, Ohio.....	1.....	
Beloit, Wis.....	1.....		New York, N. Y.....	3.....	1
Chicago, Ill.....	1.....		Schenectady, N. Y.....	2.....	

RABIES IN ANIMALS.**Chillicothe, Ohio, Fall River, Mass., and Kansas City, Mo.**

During the week ended November 22, 1919, 1 case of rabies in animals was reported at Chillicothe, Ohio, 2 cases were reported at Fall River, Mass., and four cases were reported at Kansas City, Mo.

SCARLET FEVER.

See Telegraphic weekly reports from States, page 2838; Monthly summaries by States, page 2842; and Weekly reports from cities, page 2854.

SMALLPOX.**Colorado Report for October, 1919—Vaccination Histories.**

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.
Colorado: (October):						
Adams County.....	3.....		2.....		2.....	1
Alamosa County.....	3.....		1.....		1.....	
Arapahoe County.....	1.....				3.....	
Archuleta County.....	3.....				12.....	1
Boulder County.....	13.....				72.....	
Denver County.....	76.....		4.....		2.....	
El Paso County.....	2.....				1.....	
Gunnison County.....	1.....				4.....	
Huerfano County.....	4.....				11.....	
La Plata County.....	15.....		4.....		11.....	
Larimer County.....	11.....				11.....	
Morgan County.....	3.....				3.....	
Pueblo County.....	2.....		1.....		5.....	1
Rio Blanco County.....	10.....				33.....	
Weld County.....	33.....					
Total.....	180.....		12.....		160.....	8

SMALLPOX—Continued.**Monthly State Reports, 1919.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama (October):			Arkansas (May):		
Chilton County.....	3	.....	Arkansas County.....	14	.....
Cleburne County.....	1	.....	Carroll County.....	1	.....
Etowah County.....	6	.....	Drew County.....	2	.....
Henry County.....	1	.....	Faulkner County.....	2	.....
Jefferson County.....	1	.....	Jefferson County.....	1	.....
Marshall County.....	5	.....	Lawrence County.....	18	.....
Mobile County.....	4	.....	Lee County.....	1	.....
Montgomery County.....	1	.....	Little River County.....	1	.....
Winston County.....	1	.....	Mississippi County.....	10	.....
Total.....	23	.....	Monroe County.....	10	.....
Arkansas (January):			Prairie County.....	12	.....
Cross County.....	1	.....	Saline County.....	2	.....
Faulkner County.....	1	.....	Scott County.....	1	.....
Lafayette County.....	3	.....	Sebastian County.....	6	.....
Garland County.....	2	.....	St. Francis County.....	3	.....
Mississippi County.....	10	.....	Van Buren County.....	1	.....
Monroe County.....	4	.....	Total.....	85	.....
Saline County.....	1	.....	Arkansas (June):		
Sebastian County.....	2	.....	Drew County.....	2	.....
St. Francis County.....	8	.....	Faulkner County.....	4	.....
White County.....	1	.....	Hempstead County.....	1	.....
Total.....	33	.....	Jefferson County.....	1	.....
Arkansas (February):			Lawrence County.....	4	.....
Arkansas County.....	1	.....	Lee County.....	1	.....
Clark County.....	1	.....	Lonoke County.....	1	.....
Cross County.....	1	.....	Mississippi County.....	9	.....
Desho County.....	1	.....	Monroe County.....	3	.....
Faulkner County.....	2	.....	Randolph County.....	2	.....
Garland County.....	22	.....	St. Francis County.....	3	.....
Lee County.....	22	.....	Total.....	31	.....
Mississippi County.....	8	.....	Arkansas (September):		
Monroe County.....	19	.....	Clark County.....	4	.....
Scott County.....	2	.....	Lee County.....	1	.....
St. Francis County.....	2	.....	St. Francis County.....	1	.....
Total.....	81	.....	Total.....	6	.....
Arkansas (March):			Arkansas (October):		
Calhoun County.....	1	.....	Baxter County.....	1	.....
Cross County.....	14	.....	Clark County.....	1	.....
Garland County.....	15	.....	Jefferson County.....	3	.....
Hempstead County.....	1	.....	Lonoke County.....	3	.....
Hot Spring County.....	1	.....	Mississippi County.....	2	.....
Jefferson County.....	3	.....	Ouachita County.....	1	.....
Lee County.....	2	.....	Sebastian County.....	1	.....
Madison County.....	10	.....	Washington County.....	3	.....
Miller County.....	19	.....	Total.....	15	.....
Mississippi County.....	8	.....	Idaho (October):		
Monroe County.....	3	.....	Ada County.....	14	.....
Pike County.....	1	.....	Bannock County.....	1	.....
Sebastian County.....	11	.....	Benewah County.....	4	.....
St. Francis County.....	10	.....	Bonneville County.....	2	.....
Washington County.....	10	.....	Canyon County.....	14	.....
White County.....	1	.....	Cassia County.....	2	.....
Woodruff County.....	1	.....	Elmore County.....	2	.....
Total.....	111	.....	Jerome County.....	1	.....
Arkansas (April):			Kootenai County.....	2	.....
Arkansas County.....	5	.....	Minidoka County.....	251	.....
Cleburne County.....	6	.....	Owyhee County.....	2	.....
Craighead County.....	1	.....	Twin Falls County.....	18	.....
Garland County.....	12	.....	Washington County.....	2	.....
Hot Spring County.....	4	.....	Total.....	315	.....
Jefferson County.....	6	.....	Pennsylvania (October):		
Lonoke County.....	5	.....	Allegheny County.....	1	.....
Mississippi County.....	19	.....	Cumberland County.....	1	.....
Monroe County.....	1	.....	Erie County.....	1	.....
Sebastian County.....	4	.....	Greene County.....	1	.....
St. Francis County.....	6	.....	Washington County.....	1	.....
Van Buren County.....	3	.....	Westmoreland County.....	1	.....
White County.....	10	.....	Total.....	6	.....
Total.....	82	.....		

SMALLPOX—Continued.**City Reports for Week Ended Nov. 22, 1919.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Auburn, Me.	3		Madison, Wis.	3	
Bellingham, Wash.	18		Manitowoc, Wis.	3	
Berkeley, Calif.	1		Marion, Ohio.	2	
Boise, Idaho.	4		Marshalltown, Iowa.	11	1
Buffalo, N. Y.	1		Memphis, Tenn.	1	
Canton, Ohio.	1		Milwaukee, Wis.	13	
Cedar Rapids, Iowa	1		Minneapolis, Minn.	12	
Chicago, Ill.	1		Monmouth, Ill.	26	
Cincinnati, Ohio.	1		New Orleans, La.	2	
Columbus, Ohio.	2		Norfolk, Va.	2	
Dallas, Tex.	12		Oakland, Calif.	13	
Davenport, Iowa	18		Ogden, Utah.	22	
Denver, Colo.	33		Omaha, Nebr.	2	
Dubuque, Iowa	8		Oshkosh, Wis.	1	
Duluth, Minn.	1		Piqua, Ohio.	11	
El Paso, Tex.	2		Pocatello, Idaho.	9	
Eureka, Calif.	1		Portland, Oreg.	49	
Evansville, Ind.	4		Portsmouth, Va.	1	
Everett, Wash.	1		Racine, Wis.	1	
Fargo, N. Dak.	8		Roanoke, Va.	3	
Fond du Lac, Wis.	14		St. Joseph, Mo.	22	
Green Bay, Wis.	14		St. Paul, Minn.	9	
Hoquiam, Wash.	1		Salt Lake City, Utah.	1	
Hot Springs, Ark.	1		Seattle, Wash.	6	
Huntington, Ind.	1		Sioux City, Iowa.	1	
Huntington, W. Va.	1		South Bend, Ind.	4	
Indianapolis, Ind.	2		Spokane, Wash.	27	
Jacksonville, Ill.	1		Springfield, Ill.	1	
Kansas City, Kans.	1		Steubenville, Ohio.	1	
Kansas City, Mo.	4		Tacoma, Wash.	3	
Kenosha, Wis.	2		Topeka, Kans.	1	
Kokomo, Ind.	18		Traverse City, Mich.	1	
La Fayette, Ind.	6		Virginia, Minn.	2	
Lincoln, Nebr.	4		Waco, Tex.	3	
Little Rock, Ark.	1		Walla Walla, Wash.	18	
Logansport, Ind.	3		Wausau, Wis.	5	
Long Beach, Calif.	1		Winona, Minn.	1	
Los Angeles, Calif.	2		Youngstown, Ohio.	3	

TETANUS.**City Reports for Week Ended Nov. 22, 1919.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Charleston, S. C.		1	New Orleans, La.		1
Chicago, Ill.	1	1	Providence, R. I.		1
Elwood, Ind.	1	1			

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 2838, and Weekly reports from cities, p. 2854.

TYPHOID FEVER.**Monthly State Reports, 1919.**

Place.	New cases reported.	Place.	New cases reported.
Alabama (October)—Continued.			
Baldwin County	1	Houston County	1
Barbour County	1	Jefferson County	25
Bulloch County	2	Lawrence County	4
Cherokee County	1	Lee County	1
Chilton County	1	Limestone County	1
Colbert County	4	Madison County	5
Coosa County	2	Marshall County	5
Fayette Co., n.t.	1	Mobile County	10
Henry County	2	Montgomery County	1

TYPHOID FEVER—Continued.

Monthly State Reports, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
Alabama (October)—Continued.		Arkansas (September)—Continued.	
Pickens County.....	1	Logan County.....	2
Pike County.....	3	Madison County.....	1
St. Clair County.....	1	Mississippi County.....	1
Talladega County.....	6	Ouachita County.....	2
Walker County.....	9	Pulaski County.....	12
Winston County.....	4	Saline County.....	2
Total.....	94	Sebastian County.....	5
		St. Francis County.....	2
		Washington County.....	22
		White County.....	10
		Total.....	99
Arkansas (January):		Arkansas (October):	
Ashley County.....	1	Ashley County.....	4
Bradley County.....	7	Baxter County.....	4
Faulkner County.....	2	Benton County.....	7
Perry County.....	1	Boone County.....	1
Pope County.....	1	Bradley County.....	2
St. Francis County.....	4	Carroll County.....	1
Total.....	46	Clark County.....	1
		Conway County.....	5
		Craighead County.....	9
		Cross County.....	3
Arkansas (February):		Faulkner County.....	3
Benton County.....	1	Garland County.....	1
Drew County.....	3	Hempstead County.....	1
Garland County.....	1	Independence County.....	5
Sebastian County.....	1	Jefferson County.....	1
Washington County.....	6	Lee County.....	2
White County.....	1	Lawrence County.....	1
Total.....	13	Little River County.....	1
		Miller County.....	1
Arkansas (March):		Mississippi County.....	3
Ashley County.....	2	Monroe County.....	1
Benton County.....	2	Ouachita County.....	6
Bradley County.....	2	Perry County.....	2
Clark County.....	5	Pope County.....	1
St. Francis County.....	1	Pulaski County.....	5
White County.....	1	Saline County.....	8
Total.....	13	Sebastian County.....	16
		Sevier County.....	4
Arkansas (April):		Sharp County.....	2
Bradley County.....	2	St. Francis County.....	4
Lafayette County.....	1	Washington County.....	12
Mississippi County.....	1	White County.....	6
Pope County.....	1	Woodruff County.....	3
Total.....	5	Yell County.....	1
		Total.....	139
Arkansas (May):		Colorado (October):	
Bradley County.....	2	Alamosa County.....	1
		Arrapahoe County.....	2
Arkansas (June):		Archuleta County.....	1
Benton County.....	1	Boulder County.....	7
Bradley County.....	5	Chaffee County.....	1
Calhoun County.....	1	Crowley County.....	1
Carroll County.....	2	Denver County.....	15
Hempstead County.....	2	El Paso County.....	8
Izard County.....	1	Jefferson County.....	1
Jefferson County.....	1	La Plata County.....	2
Mississippi County.....	4	Larimer County.....	2
St. Francis County.....	1	Pueblo County.....	4
Washington County.....	2	Total.....	45
Total.....	20		
Arkansas (September):		Pennsylvania (October):	
Benton County.....	2	Adams County.....	5
Bradley County.....	3	Allegheny County.....	55
Calhoun County.....	2	Armstrong County.....	13
Clark County.....	5	Beaver County.....	11
Cleburne County.....	2	Bedford County.....	8
Conway County.....	4	Berks County.....	28
Columbia County.....	1	Blair County.....	21
Faulkner County.....	4	Bradford County.....	2
Garland County.....	2	Bucks County.....	8
Izard County.....	2	Butler County.....	4
Jefferson County.....	1		
Lee County.....	4		

TYPHOID FEVER—Continued.

Monthly State Reports, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
Pennsylvania (October)—Continued.		Pennsylvania (October)—Continued.	
Cambria County.....	7	Luzerne County.....	4
Cameron County.....	1	Lycoming County.....	7
Carbon County.....	1	Mercer County.....	1
Center County.....	7	Mifflin County.....	8
Chester County.....	16	Montgomery County.....	6
Clearfield County.....	7	Montour County.....	1
Crawford County.....	2	Northampton County.....	5
Cumberland County.....	3	Northumberland County.....	6
Dauphin County.....	6	Perry County.....	1
Delaware County.....	8	Philadelphia County.....	64
Elk County.....	1	Potter County.....	5
Erie County.....	3	Schuylkill County.....	1
Fayette County.....	22	Snyder County.....	1
Forest County.....	6	Somerset County.....	18
Franklin County.....	4	Susquehanna County.....	1
Fulton County.....	2	Tioga County.....	4
Greene County.....	8	Venango County.....	4
Huntingdon County.....	20	Warren County.....	1
Indiana County.....	17	Washington County.....	11
Jefferson County.....	4	Wayne County.....	1
Juniata County.....	2	Westmoreland County.....	38
Lancaster County.....	10	York County.....	16
Lawrence County.....	2	Total.....	532
Lebanon County.....	5		
Lehigh County.....	6		

City Reports for Week Ended Nov. 22, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	4		Huntington, Ind.....	1	1
Albany, N. Y.....	1		Indianapolis, Ind.....	1	
Albuquerque, N. Mex.....	1		Ironton, Ohio.....	1	
Ann Arbor, Mich.....	1		Jacksonville, Ill.....	2	
Atlantic City, N. J.....	2		Kansas City, Kans.....	1	
Auburn, N. Y.....	1	1	Kansas City, Mo.....	1	
Austin, Tex.....	1	1	Lawrence, Mass.....	2	
Baltimore, Md.....	4		Lima, Ohio.....	12	2
Birmingham, Ala.....	1		Lincoln, Nebr.....		
Boise, Idaho.....	2		Little Rock, Ark.....	1	
Boston, Mass.....	5	1	Los Angeles, Calif.....	3	
Brookline, Mass.....	1		Louisville, Ky.....	4	1
Buffalo, N. Y.....	2		Lynn, Mass.....		
Burlington, Vt.....	1		Macon, Ga.....	2	
Canton, Ohio.....	1		Manchester, N. H.....	2	
Cedar Rapids, Iowa.....	1		Medford, Mass.....	1	
Chambersburg, Pa.....	1		Melrose, Mass.....	1	
Charleston, S. C.....	2	1	Memphis, Tenn.....	1	
Charleston, W. Va.....	1	3	Milwaukee, Wis.....	1	
Chelsea, Mass.....	1		Minneapolis, Minn.....	5	
Chicago, Ill.....	2	1	Mobile, Ala.....	2	
Cincinnati, Ohio.....	1		Moline, Ill.....	2	1
Cleveland, Ohio.....	3	2	Nashville, Tenn.....	1	
Columbus, Ohio.....	1		Newark, N. J.....	2	
Dallas, Tex.....		1	New Orleans, La.....	4	2
Decatur, Ill.....	1	1	New York, N. Y.....	19	2
Detroit, Mich.....	6		Norfolk, Va.....	1	
Easton, Pa.....	1		Norristown, Pa.....	2	
El Paso, Tex.....		1	North Attleboro, Mass.....	1	
Elyria, Ohio.....		1	Oakland, Calif.....	1	
Evansville, Ind.....	1		Ogden, Utah.....	2	
Fall River, Mass.....	3		Omaha, Nebr.....	1	1
Flint, Mich.....	1		Oshkosh, Wis.....	1	
Fort Smith, Ark.....	4		Parkersburg, W. Va.....	1	
Fort Wayne, Ind.....	3	1	Paterson, N. J.....	1	
Fort Worth, Tex.....		1	Philadelphia, Pa.....	7	
Galesburg, Ill.....	5		Pittsburgh, Pa.....	1	
Greenwich, Conn.....		1	Pontiac, Mich.....	2	
Hackensack, N. J.....	1		Port Huron, Mich.....	1	
Harrisburg, Pa.....	1		Pott and, Creg.....	2	
Highland Park, Mich.....	1		Providence, R. I.....	1	
Homestead, Pa.....	2		Ridge, Eng, Pa.....	4	

TYPHOID FEVER—Continued.

City Reports for Week Ended Nov. 22, 1919—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Richmond, Va.	4		Topeka, Kans.	2	
Riverside, Calif.		1	Trenton, N. J.	1	1
Rochester, N. Y.	3		Vancouver, Wash.		1
Rock Island, Ill.	2		Waco, Tex.		1
St. Joseph, Mo.		1	Washington, D. C.		1
St. Louis, Mo.	3		Webster, Mass.		1
St. Paul, Minn.	3		Wheeling, W. Va.	2	
San Bernardino, Calif.		1	Wichita, Kans.	2	
Santa Barbara, Calif.	1		Wilmington, Del.		1
Savannah, Ga.	1		Winston-Salem, N. C.		1
South Bend, Ind.	1		Worcester, Mass.		1
Stamford, Conn.			Youngstown, Ohio.	2	
Syracuse, N. Y.	2		Zanesville, Ohio.		1
Tacoma, Wash.	1				

YELLOW FEVER.

Imported Case—New Orleans, La., Dec. 2, 1919.

One imported case of yellow fever from Merida, State of Yucatan, Mexico, died in New Orleans, La., on December 2d. The diagnosis was verified by autopsy.

In view of the facts that the New Orleans territory is noninfectible at this season, that before arrival in New Orleans the patient had presumably passed the three days' period of illness in which he would be infectious, and that the vessel was fumigated for the destruction of mosquitoes prior to leaving Progreso, Yucatan, there is no reason to believe that any secondary case can result. The case is of academic interest only, and has no sanitary significance.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended Nov. 22, 1949.

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population of July 1, 1917 (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.
Arlington, Mass.	13,073	7	1				2			
Asbury Park, N. J.	14,629	1	1		1		2		1	
Ashland, Ky.	12,195		1							
Ashland, Ohio	22,008	4			15		1		1	
Atlanta, Ga.	186,144	50	17	4	8		6			2
Atlantic City, N. J.	59,515	7			3		1			
Attleboro, Mass.	19,776	6	7				1			1
Auburn, N. Y.	37,823	11	3		1					
Aurora, Ill.	34,795	6								
Austin, Tex.	35,612	4	7							1
Bakersfield, Calif.	17,543	5								
Baltimore, Md.	504,637	195	67	6	15		23		20	25
Bangor, Me.	26,958						1		2	
Barberton, Ohio	14,187	4								
Battle Creek, Mich.	30,189	18	11				24			
Bayonne, N. J.	72,204	5					2		2	
Beatrice, Nebr.	10,437	3					2			
Beaumont, Tex.	28,851	10								
Beaver Falls Pa.	13,749						4			
Bedford, Ind.	10,613	1					1		1	1
Belleville, N. J.	12,797						1			
Bellingham, Wash.	34,302		3				3			
Beloit, Wis.	18,547	1	1						1	
Benton Harbor, Mich.	11,099	3					2			
Berkeley, Calif.	60,427	13	1		1		1		2	
Berlin, N. H.	13,892	5	1				3		2	
Bethlehem, Pa.	14,353	5	1		2		1			
Beverly, Mass.	22,128	5			1					
Biddeford, Me.	17,760	11								1
Billings, Mont.	15,123				1					
Birmingham, Ala.	189,216	49	23	1			6		9	5
Bloomfield, N. J.	19,013	3	3				3			
Bloomington, Ill.	27,462	12	2							
Bloomington, Ind.	11,661	2	2							
Bluefield, W. Va.	16,123									
Boise, Idaho	35,951	6								
Boston, Mass.	767,813	193	96	3	142	1	71		57	17
Braddock, Pa.	22,060		3		5		3			
Brazil, Ind.	10,472	0								
Bridgeport, Conn.	124,724	14	15		12				1	1
Bristol, Conn.	16,318	3	2				2		1	1
Brockton, Mass.	69,152	17	6	1	9		2		4	
Brookline, Mass.	33,526	10	4				3		1	1
Brunswick, Ga.	10,984	9								
Buffalo, N. Y.	475,781	124	120	9	12	2	23	1	21	9
Burlington, Iowa	25,144	9					1		7	
Burlington, Vt.	21,802	3								1
Butler, Pa.	28,677		8				2			
Butte, Mont.	44,057	22	2	1			1			3
Cadillac, Mich.	10,158	1	2						2	
Cairo, Ill.	15,995	3	3							
Cambridge, Mass.	114,293	21	13		6		3		4	3
Camden, N. J.	108,117		5		2		2		3	
Canton, Ill.	13,674	6								
Canton, Ohio	62,566	14	13	1			2		3	1
Capo Girardeau, Mo.	11,146	2	3				1			1
Carbondale, Pa.	19,597		2				2			
Carlisle, Pa.	10,795						2			
Carnegie, Pa.	11,963						1			
Cedar Rapids, Iowa	38,033		3							
Chambersburg, Pa.	12,475		1							
Chanute, Kans.	12,968	1					5			
Charleston, S. C.	61,041	34	3		3				3	3
Charleston, W. Va.	31,060	14	4	1			2			2
Charlotte, N. C.	40,759	13	4				3		3	2
Chattanooga, Tenn.	61,575	19	1				2			2
Chelsea, Mass.	48,405	8	2		1		3			
Chester, Pa.	41,857		1				2		1	
Cheyenne, Wyo.	11,320	4					5			
Chicago Heights, Ill.	22,863	6			1					
Chicago, Ill.	2,547,201	546	218	19	38	2	247	4	318	33
Chicopee, Mass.	29,950	6	1		4		2		2	

¹ Population Apr. 15, 1910.

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber-culosi-	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Chillicothe, Ohio.	15,625	1	6		31		39		17	12
Cincinnati, Ohio.	414,248	109	23		53		33		30	15
Cleveland, Ohio.	692,259	149	97	8	53		1			
Clinton, Iowa	27,678	4								
Clinton, Mass.	113,075	0								
Coatesville, Pa.	14,998	2								
Coffeyville, Kans.	18,331	9								
Cohoes, N. Y.	25,292	8								
Colorado Springs, Colo.	38,965	10								
Columbia, S. C.	35,165	3		1						
Columbus, Ga.	26,306	15	1							
Columbus, Ohio.	220,135	63	5		2		9		3	
Concord, N. H.	22,858	9	2				1		5	6
Corpus Christie, Tex.	10,789	6	2	1						
Cortland, N. Y.	13,321	5								
Covington, Ky.	59,623	20	8		1				4	2
Cranston, R. I.	26,773	5	1							
Cumberland, Md.	26,686	3	1							
Dallas, Tex.	129,738	43	47	1	1		5		3	
Danville, Ill.	32,969	9					3		3	4
Danville, Va.	20,183	2								1
Davenport, Iowa	49,618	1								
Dayton, Ohio	128,939	29	6				3		1	
Decatur, Ill.	41,483	12	2		1					
Dedham, Mass.	10,618	2	4		2					
Denver, Colo.	268,439	75	7	1	1		10			15
Des Moines, Iowa	104,052	2	11				11			
Detroit, Mich.	619,648	206	107	8	85	1	101	1	39	15
Dover, N. H.	13,276	5								
Dubuque, Iowa	40,096	15								1
Duluth, Minn.	97,077	21	28				3		3	
Dunkirk, N. Y.	21,311	5	1		1		11		1	1
Dunmore, Pa.	21,286	1								
Durham, N. C.	26,160	4	2						2	2
East Chicago, Ind.	30,286	9		2						
East Hampton, Mass.	10,656				2		2	1		
Easton, Pa.	30,854						1			
East Orange, N. J.	43,761	12	1		1		1			1
East Providence, R. I.	18,485	3			1		1			
East St. Louis, Ill.	71,312	10	5		2		4		2	1
Eau Claire, Wis.	18,887						1			
Elgin, Ill.	28,362	6			1					1
Elizabeth, N. J.	88,530		3		7		3		4	1
Elmira, N. Y.	38,272	14	1		18				3	
El Paso, Tex.	69,149	37			1					10
Elwood, Ind.	11,028	2								
Elyria, Ohio.	19,503		1		20					
Englewood, N. J.	12,603	5	1							1
Erie, Pa.	76,592		12		4				6	
Eureka, Calif.	15,142									1
Evanson, Ill.	29,304	9			2		1			
Evansville, Ind.	76,981	15	11				3			2
Everett, Mass.	40,160	3	18	1			1			
Everett, Wash.	37,205									
Fairmont, W. Va.	16,111		8	1			4			
Fall River, Mass.	129,828	31	7	3	5	1	3		7	2
Fargo, N. Dak.	17,272	6			9		4			
Farrell, Pa.	10,190		1		1		1			
Findlay, Ohio.	14,858	3								
Flint, Mich.	57,386	13	20	1	29		5			1
Fond du Lac, Wis.	21,486	4								
Fort Dodge, Iowa.	21,039	1								
Fort Scott, Kans.	10,564	4								
Fort Smith, Ark.	29,390		5							
Fort Wayne, Ind.	78,014	31	2				1		1	1
Fort Worth, Tex.	109,597	26	25				2		2	2
Fostoria, Ohio.	10,959	3					5			
Framingham, Mass.	14,149	4								
Freeport, Ill.	19,844	6								
Fremont, Nebr.	10,080	3								
Fremont, Ohio.	11,054	1			1					
Fresno, Calif.	36,314	3	3				1			

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Galesburg, Ill.	24,629	8								
Gardiner, Mass.	17,554	3					1		2	
Gary, Ind.	56,900		3	1						
Geneva, N. Y.	13,915	5					2			
Glens Falls, N. Y.	17,160	3	2							
Gloucester City, N. J.	11,375						1			
Grand Rapids, Mich.	132,861	31	4	1	6		3		6	1
Granite City, Ill.	15,890	6	17				4		1	
Great Falls, Mont.	13,948	5	1	1			1			
Greeley, Colo.	11,942	5								2
Green Bay, Wis.	30,917	8	2							
Greenfield, Mass.	12,261	4	4		1		1			
Greensburg, Pa.	15,881		1				1			
Greenville, S. C.	18,574	5			1		2			
Greenwich, Conn.	19,504	4	6				4		1	
Hackensack, N. J.	17,412	3			2				1	
Hammond, Ind.	27,046	8	6	1	1		5			1
Hancock, Mich.	12,578	1								
Harrisburg, Pa.	73,276		5				3			
Harrison, N. J.	17,345									
Hartford, Conn.	112,851	37	11		1		13		1	7
Haverhill, Mass.	49,180	7	5				2		3	2
Hazleton, Pa.	28,984				33		1			
Hibbing, Minn.	17,850		1		15		1			
Highland Park, Mich.	33,859	10	14		1		1			
Hoboken, N. J.	78,324	12	3						2	2
Holland, Mich.	12,459	0	3		2					
Holyoke, Mass.	66,503	17	1	1			5		1	2
Homestead, Pa.	23,071		5							
Hot Springs, Ark.	17,690		3				1			
Houston, Tex.	116,878	25	3				1			
Hudson, N. Y.	12,838	2						8		
Huntington, Ind.	10,982	3								
Huntington, W. Va.	47,686	10	8							
Independence, Mo.	11,964	8			1				5	1
Indianapolis, Ind.	283,622	99	10	2	4		14		6	6
Ironon, Ohio.	14,079	4								
Ironwood, Mich.	15,095	5								
Irvington, N. J.	16,710						1			
Ishpeming, Mich.	12,448	6			1				1	
Ithaca, N. Y.	16,017	5								
Jacksonville, Ill.	15,506	8								
Jamestown, N. Y.	37,421	4	8				1			
Janesville, Wis.	14,411	2								
Jersey City, N. J.	312,557		21		2		5		11	
Johnstown, N. Y.	10,678	2								
Johnstown, Pa.	70,473		2		109		1		1	
Joplin, Mo.	38,406	6	1					2		
Kalamazoo, Mich.	50,408	18	6	1			10		4	3
Kankakee, Ill.	14,270	3								
Kansas City, Kans.	192,096		8		3		5		6	
Kansas City, Mo.	305,816	78	21		38		4		8	6
Kearny, N. J.	24,325	4	1		2		5		1	
Keene, N. H.	10,725	2								
Kenosha, Wis.	32,823	11					5		1	
Kewanee, Ill.	13,607	3								
Knoxville, Tenn.	59,112		6	2			4		5	5
Kokomo, Ind.	21,929	7								
Lackawanna, N. Y.	16,219	7	2							
La Crosse, Wis.	31,825	7	1							
La Fayette, Ind.	21,481		1					5		
Lakewood, Ohio.	23,813		1		22			2		
Lancaster, Ohio.	16,086	3	3				1			
Lancaster, Pa.	51,427		9							
La Salle, Ill.	12,832	1								
Laurel, Miss.	12,313			1				1		
Lawrence, Kans.	13,477	2								
Lawrence, Mass.	102,923	16	1		5		7		1	
Leavenworth, Kans.	19,363		4							
Leominster, Mass.	21,365	6					2		1	
Lexington, Ky.	41,997	17	2				5			2

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (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.
Lima, Ohio.....	37,145	12	6	—	1	—	6	—	—	2
Lincoln, Nebr.....	46,957	10	1	—	1	—	3	—	—	—
Lincoln, R. I.....	10,473	2	—	—	—	—	3	—	—	—
Little Rock, Ark.....	58,716	5	—	—	—	—	3	—	—	—
Lockport, N. Y.....	20,028	5	—	—	—	—	—	—	—	—
Logansport, Ind.....	21,338	7	1	1	1	—	6	—	—	—
Long Beach, Calif.....	29,163	16	—	—	1	—	2	—	—	—
Lorain, Ohio.....	38,266	—	—	—	2	—	—	—	—	—
Los Angeles, Calif.....	535,485	132	34	1	4	—	18	—	43	22
Louisville, Ky.....	240,808	66	47	3	2	—	6	—	13	4
Lowell, Mass.....	114,366	22	2	—	1	—	14	—	2	—
Ludington, Mich.....	10,566	4	—	—	—	—	—	—	—	—
Lynchburg, Va.....	33,497	15	1	—	—	—	1	—	4	1
Lynn, Mass.....	104,534	29	17	3	1	—	23	—	5	2
McKeesport, Pa.....	48,299	—	—	—	2	—	2	—	—	—
Macon, Ga.....	46,099	16	3	—	—	—	—	—	—	1
Madison, Wis.....	31,315	6	—	—	—	—	—	—	—	1
Mahanoy City, Pa.....	17,709	—	2	—	—	—	—	—	—	—
Manchester, Conn.....	15,859	—	—	—	—	—	—	—	5	4
Manchester, N. H.....	79,607	17	8	—	—	—	3	—	—	1
Manitowoc, Wis.....	13,931	13	1	—	20	—	3	—	—	—
Mankato, Minn.....	10,365	7	—	—	—	—	3	—	—	—
Marinette, Wis.....	14,610	2	1	—	—	—	4	—	—	—
Marion, Ind.....	19,923	6	3	—	—	—	2	—	—	—
Marion, Ohio.....	24,129	—	1	—	—	—	2	—	1	1
Marquette, Mich.....	12,555	3	1	—	—	—	—	—	—	—
Marshalltown, Iowa.....	14,519	1	1	—	—	—	—	—	—	—
Martinsburg, W. Va.....	12,984	1	7	1	—	—	—	—	—	—
Martins Ferry, Ohio.....	10,135	0	—	—	—	—	—	—	—	—
Mason City, Iowa.....	14,638	2	3	—	9	—	2	—	—	—
Mattoon, Ill.....	12,764	—	1	—	—	—	—	—	—	—
Meadville, Pa.....	13,968	—	—	—	—	—	—	—	—	—
Medford, Mass.....	26,681	9	—	—	3	—	1	—	3	2
Melrose, Mass.....	17,724	4	—	—	—	—	1	—	—	1
Memphis, Tenn.....	151,877	54	33	2	—	—	4	—	5	5
Meriden, Conn.....	29,431	—	2	—	—	—	1	—	2	—
Methuen, Mass.....	14,320	4	3	—	—	—	1	—	1	1
Middletown, N. Y.....	15,890	—	2	2	—	—	—	—	—	—
Middletown, Ohio.....	16,384	5	1	—	—	—	1	—	—	—
Milwaukee, Wis.....	445,008	91	54	8	31	—	34	—	4	8
Minneapolis, Minn.....	373,448	92	25	1	1	—	9	—	32	—
Mishawaka, Ind.....	17,083	1	—	—	—	—	—	—	—	—
Mobile, Ala.....	59,201	23	7	—	—	—	2	—	1	—
Moline, Ill.....	27,976	—	1	—	—	—	3	—	—	—
Monessen, Pa.....	23,070	—	6	—	—	—	5	—	—	—
Monmouth, Ill.....	10,346	3	—	—	—	—	—	—	—	—
Montclair, N. J.....	27,087	2	1	—	1	—	1	—	1	—
Montgomery, Ala.....	44,039	19	1	—	—	—	2	—	—	3
Morgantown, W. Va.....	14,444	0	2	—	—	—	—	—	—	—
Morristown, N. J.....	13,410	4	1	—	—	—	—	—	—	—
Moundsville, W. Va.....	11,513	0	1	—	—	—	—	—	—	—
Mount Carmel, Pa.....	20,709	—	4	—	—	—	1	—	—	—
Mount Vernon, Ill.....	10,043	11	3	—	—	—	—	—	—	—
Muscatine, Iowa.....	17,713	9	—	—	—	—	—	—	—	—
Muskogee, Okla.....	47,173	—	3	—	—	—	—	—	—	—
Nanticoke, Pa.....	23,811	—	3	—	—	—	—	—	—	—
Nashua, N. H.....	27,541	4	3	—	—	—	—	—	—	—
Nashville, Tenn.....	118,136	34	15	—	—	—	7	—	5	4
Newark, N. J.....	418,789	87	38	1	23	1	12	—	40	3
New Bedford, Mass.....	121,622	20	3	—	45	—	4	—	6	—
New Britain, Conn.....	55,385	20	7	—	—	—	4	—	2	4
New Brunswick, N. J.....	23,855	—	2	—	—	—	—	—	—	—
Newburyport, Mass.....	15,291	5	—	—	—	—	10	—	—	1
Newcastle, Pa.....	41,915	—	—	—	—	—	9	1	8	2
New Haven, Conn.....	152,275	39	15	—	58	—	9	—	—	—
New London, Conn.....	21,199	—	—	—	—	—	8	—	20	16
New Orleans, La.....	377,010	137	5	—	—	—	4	—	—	—
Newport, R. I.....	30,585	5	2	—	—	—	7	—	2	1
Newton, Mass.....	44,345	10	7	1	1	—	68	—	404	117
New York, N. Y.....	5,737,492	1,127	273	21	265	2	68	2	404	6
Niagara Falls, N. Y.....	38,456	16	2	—	18	—	2	—	—	—

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Norfolk, Va.	91,148	12					7	1		
Norristown, Pa.	31,969	5					1	1		
North Adams, Mass.	122,019	6								
Northampton, Mass.	20,006	4								
North Attleboro, Mass.	11,248	4								
North Braddock, Pa.	15,584	2			7		1		1	
North Tonawanda, N. Y.	14,060	4					3			
Norwalk, Conn.	27,332	8					2			
Norwich, Conn.	21,923	5							1	2
Norwood, Ohio	23,269	2	3		32	1	1			
Oakland, Calif.	206,405	33	1		36	10			5	1
Oak Park, Ill.	27,816	13	2		2		3		1	1
Ogdensburg, N. Y.	16,845	3								
Ogden, Utah	32,343	12					2			
Oil City, Pa.	20,162	1								
Oklahoma City, Okla.	97,588	14	7				3			
Omaha, Nebr.	177,777	44	4				19			2
Orange, Conn.	14,393	8	1		7		1			
Orange, N. J.	33,636	10	7	1						1
Oshkosh, Wis.	36,549	13								
Owensboro, Ky.	18,070	4								
Paducah, Ky.	25,178	1					1			
Parkersburg, W. Va.	21,059	8	1				1			
Parsons, Kans.	15,952	2					6		1	
Pasadena, Calif.	49,620	17	1		1		1			4
Passaic, N. J.	74,478	18	6						1	3
Paterson, N. J.	140,512	3	14				4			
Pawtucket, R. I.	60,686	15	9				4			
Peekskill, N. Y.	19,034	5							8	
Pekin, Ill.	10,973		1				3			
Peoria, Ill.	72,184	21	7	1			7			
Petersburg, Va.	25,817	7	2							
Philadelphia, Pa.	1,735,514	411	137	8	87	1	79	2	57	36
Phillipsburg, N. J.	15,879	4	1							
Phoenixville, Pa.	11,871	3								
Pine Bluff, Ark.	17,777									
Piqua, Ohio	14,275	3					1			
Pittsburgh, Pa.	583,196	46			19		23		26	
Pittsfield, Mass.	39,678	11					1		3	2
Pittston, Pa.	18,975						1			
Plainfield, N. J.	24,330	3			16					
Plattsburg, N. Y.	13,111	6	2	1						
Plymouth, Mass.	14,001	3								
Plymouth, Pa.	19,439	2								
Pocatello, Idaho	12,896						3			
Pontiac, Mich.	18,006	10	3		57				1	1
Port Huron, Mich.	18,863	8	3		50					
Portland, Me.	64,720	14	2				3			
Portland, Oreg.	308,399	53	3	1	1		13		2	4
Portsmouth, N. H.	11,730						2			
Portsmouth, Va.	40,693	14	3							3
Pottstown, Pa.	16,987		4							
Pottsville, Pa.	22,717		1							
Poughkeepsie, N. Y.	30,786	14	12	2				5		
Providence, R. I.	259,895	60	19	1			11	1		4
Pueblo, Colo.	56,084		1				1			
Quincy, Mass.	39,022	14	4	1				5		1
Racine, Wis.	47,465	18	2		1		4			
Rahway, N. J.	10,361	5	1	1						
Raleigh, N. C.	20,274	6	3				2			
Reading, Pa.	111,607		19				3			
Redlands, Calif.	14,573	2							2	
Reno, Nev.	15,514	3								
Richmond, Ind.	25,080	7	2						1	
Richmond, Va.	158,702	50	11		3		8		10	6
Riverside, Calif.	20,496	7	1				1			
Roanoke, Va.	46,282	10	7							
Rochester, N. Y.	264,714	55	34		31		12		6	5
Rockford, Ill.	56,739	14	5				5			1
Rock Island, Ill.	29,452	4	2				2			
Rocky Mount, N. C.	12,673	0	1							

¹ Population Apr. 15, 1910.

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Rome, Ga.	15,607	.....	.....	.....	.....	.....	2	.....	1	.....
Rome, N. Y.	24,259	.....	4	.....	.....	.....	1	.....	2	.....
Sacramento, Calif.	68,984	18	2	.....	.....	.....	3	.....	1	.....
Saginaw, Mich.	56,469	21	5	.....	4	.....	2	.....	.....	.....
St. Joseph, Mo.	86,493	33	5	1	.....	.....	3	.....	5	.....
St. Louis, Mo.	768,630	163	123	9	11	.....	19	.....	27	14
St. Paul, Minn.	252,465	71	22	.....	.....	10	1	9	2	.....
Salem, Mass.	49,346	11	7	1	.....	.....	.....	.....	3	.....
Salina, Kans.	12,470	0	1	.....	.....	.....	.....	.....	.....	.....
Salt Lake City, Utah	121,623	30	2	.....	2	.....	.....	.....	1	.....
San Bernardino, Calif.	17,616	9	.....	.....	.....	.....	3	.....	1	1
San Diego, Calif.	56,412	21	4	.....	1	.....	.....	.....	1	.....
Sandusky, Ohio.	20,226	3	1	.....	1	.....	.....	.....	.....	.....
Sanford, Me.	11,217	2	.....	.....	.....	.....	.....	.....	.....	.....
San Francisco, Calif.	471,023	142	.....	.....	.....	.....	.....	.....	.....	14
San Jose, Calif.	39,810	.....	.....	7	.....	.....	1	.....	.....	.....
Santa Ana, Calif.	10,981	4	.....	.....	.....	.....	1	.....	.....	.....
Santa Barbara, Calif.	15,360	5	1	.....	.....	.....	1	.....	.....	1
Santa Cruz, Calif.	15,150	.....	.....	.....	.....	.....	3	.....	.....	.....
Saratoga Springs, N. Y.	13,839	2	9	.....	.....	.....	.....	.....	1	.....
Saugus, Mass.	10,210	5	1	.....	.....	.....	.....	.....	.....	.....
Savannah, Ga.	69,250	26	6	1	.....	.....	8	.....	2	.....
Schenectady, N. Y.	103,774	17	4	1	.....	.....	5	.....	3	.....
Scranton, Pa.	149,541	.....	5	.....	.....	.....	10	.....	.....	.....
Seattle, Wash.	366,445	.....	7	.....	39	9	.....	.....	.....	.....
Shamokin, Pa.	21,274	.....	.....	9	.....	.....	.....	.....	.....	.....
Sharon, Pa.	19,156	.....	3	.....	.....	.....	5	.....	.....	.....
Shelbyville, Ind.	11,201	3	.....	.....	.....	.....	1	.....	.....	.....
Sioux City, Iowa	58,568	.....	3	.....	.....	.....	6	.....	.....	.....
Sioux Falls, S. Dak.	16,887	1	1	.....	1	.....	7	1	1	3
Somerville, Mass.	88,618	18	7	.....	2	.....	8	2	.....	5
South Bend, Ind.	70,967	13	2	.....	1	.....	2	.....	1	.....
Southbridge, Mass.	14,465	2	.....	.....	.....	.....	.....	.....	.....	.....
Spartanburg, S. C.	21,985	.....	7	.....	1	.....	1	.....	.....	2
Spokane, Wash.	157,636	.....	.....	1	.....	.....	1	.....	.....	.....
Springfield, Ill.	62,623	22	3	.....	.....	.....	3	1	1	2
Springfield, Mass.	108,668	31	4	.....	1	.....	2	1	1	1
Springfield, Mo.	41,169	19	.....	.....	.....	.....	.....	1	1	1
Springfield, Ohio.	52,296	9	.....	.....	1	.....	2	1	1	1
Stamford, Conn.	31,810	.....	3	.....	16	.....	3	.....	.....	.....
Staunton, Va.	11,823	3	.....	.....	.....	.....	.....	.....	1	.....
Steubenville, Ohio.	28,259	10	2	1	.....	.....	.....	.....	1	.....
Stillwater, Minn.	10,198	0	.....	.....	.....	.....	.....	.....	.....	.....
Stockton, Calif.	36,209	11	1	.....	.....	.....	4	1	1	1
Sunbury, Pa.	16,661	.....	5	.....	.....	1	1	1	1	1
Superior, Wis.	47,167	13	2	.....	6	.....	1	1	1	1
Syracuse, N. Y.	158,559	45	10	.....	.....	.....	15	5	3	1
Tacoma, Wash.	117,446	.....	8	.....	2	.....	5	1	1	1
Taunton, Mass.	36,610	.....	1	.....	.....	.....	2	1	1	1
Terre Haute, Ind.	67,361	16	6	1	.....	.....	1	1	1	1
Toledo, Ohio.	202,010	52	7	2	121	1	40	3	2	2
Topeka, Kans.	49,538	6	3	.....	.....	1	1	1	5	1
Traverse City, Mich.	14,090	3	.....	.....	.....	.....	1	1	1	1
Trenton, N. J.	113,974	34	9	.....	9	.....	1	1	4	1
Trinidad, Colo.	14,413	.....	7	.....	.....	.....	2	1	1	1
Troy, N. Y.	78,094	26	4	.....	.....	.....	.....	1	1	3
Tucson, Ariz.	17,324	16	.....	1	.....	1	1	1	1	1
Tuscaloosa, Ala.	10,824	3	3	.....	.....	.....	.....	1	2	1
Uniontown, Pa.	21,600	.....	.....	.....	.....	.....	1	1	1	1
Urbana, Ill.	10,146	.....	.....	.....	.....	.....	1	1	1	1
Vancouver, Wash.	13,805	.....	7	.....	.....	.....	.....	1	1	1
Vincennes, Ind.	18,089	.....	1	.....	.....	.....	2	1	1	1
Virginia, Minn.	15,954	2	.....	1	.....	.....	3	1	1	1
Waco, Tex.	34,015	11	7	.....	.....	.....	2	1	1	1
Wakefield, Mass.	12,947	3	.....	1	.....	.....	3	1	1	1
Walla Walla, Wash.	26,067	.....	1	.....	.....	.....	3	1	1	1
Waltham, Mass.	31,011	3	.....	1	.....	.....	2	1	1	1
Washington, D. C.	369,282	122	49	1	2	.....	15	.....	11	15
Washington, Pa.	22,076	.....	4	.....	.....	.....	.....	1	2	1
Watertown, Mass.	15,188	1	.....	.....	.....	1	1	1	1	1
Watertown, N. Y.	30,404	.....	27	1	.....	12	.....	.....	.....	.....

¹ Population Apr. 15, 1910.

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

City Reports for Week Ended Nov. 22, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Wausau, Wis.	19,666	9								1
Webster, Mass.	13,484	3			1					
Westfield, Mass.	18,769		7	1					2	
West Hoboken, N. J.	44,386	3	6							
West New York, N. J.	19,613	5	3	1			1			
West Orange, N. J.	13,964	1	6				1		1	
Wheeling, W. Va.	43,657	18	5	1	1		1		3	
White Plains, N. Y.	23,331	3	1						1	
Wichita, Kans.	73,597	14	8				1			1
Wilkes Barre, Pa.	78,334		4				10		2	
Wilkinsburg, Pa.	23,899		4							
Williamsport, Pa.	34,123		4				1			
Wilmington, Del.	95,369	15	1	3			4			1
Winchester, Mass.	10,812	2	1				1			
Winona, Minn.	18,583	6		1	6		2	1	2	
Winston-Salem, N. C.	33,136	13	6						4	
Winthrop, Mass.	13,105	0			1		1		1	
Woburn, Mass.	16,076	5								1
Worcester, Mass.	160,106	40	4				4		6	3
Yakima, Wash.	22,058						1			
Yonkers, N. Y.	103,066		7		2		2		10	2
York, Pa.	52,770		14	8	15		22		2	
Youngstown, Ohio.	112,282	24	8				4		2	
Zanesville, Ohio.	31,320	6	2							

¹ Population Apr. 15, 1910

FOREIGN AND INSULAR.

CHILE.

Typhus Fever—January–November, 1919—Santiago.

Typhus fever has been reported prevalent at Santiago de Chile during the current year with 6,366 cases occurring from January 12 to November 11, 1919. The cases and deaths notified were distributed by months as follows:

Month.	Cases.	Deaths.	Month.	Cases.	Deaths.
January 12–31.....	772	164	August.....	390	91
February.....	1,033	201	September.....	389	78
March.....	900	188	October.....	816	168
April.....	508	95	November 1–11.....	397	99
May.....	442	86	Total.....	6,366	1,300
June.....	332	59			
July.....	387	71			

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Nov. 11–20, 1919.		Remaining under treatment Nov. 21, 1919.
	New cases.	Deaths.	
Diphtheria.....	5	.....	5
Influenza.....	2	2	.....
Leprosy.....	.....	.....	19
Malaria.....	58	3	153
Measles.....	11	.....	28
Paratyphoid fever.....	1	.....	2
Pneumonia.....	.....	.....	1
Scarlet fever.....	1	.....	3
Smallpox.....	2	.....	23
Typhoid fever.....	14	1	60

¹ From the interior, 53.

² From the interior, 18.

³ From the interior, 13.

GREAT BRITAIN.

Plague-Infected Rats Found—Liverpool.

During the two weeks ended November 1, 1919, out of 3,040 rats examined at Liverpool, England, two rats were found plague infected. The infected rats were taken in areas previously reported plague infected.¹

¹ Public Health Reports, Nov. 21, 1919, p. 2695.

GREAT BRITAIN—Continued.**Plague on Steamship "Nagoya"—London.**

The occurrence of six cases of plague among the native crew of the steamship *Nagoya* from oriental ports was reported at the port of London October 27, 1919. The *Nagoya* arrived in the Thames October 25, 1919. The first and second cases of plague occurred in the issuer of food and his assistant.

The *Nagoya* left Yokohama, Japan, August 30, 1919. The ports of call of the vessel in the Orient were stated as follows: Kobe, September 2; Shanghai, September 7; Hongkong, September 11; Singapore and Penang, Straits Settlements, September 18 and 19; and Colombo, Island of Ceylon, September 25. On October 10 the vessel stopped at Port Said, Egypt. The ports of call of the *Nagoya* in Europe were Marseille, October 17; Gibralter, October 20; and Plymouth, England, October 24.

GUATEMALA.**Quarantine Against New Orleans.**

According to information dated November 28, 1919, quarantine against New Orleans on account of plague has been established at ports in Guatemala.

INDIA.**Influenza—Rangoon—August 17 to October 11, 1919.**

The following table shows the number of deaths from influenza in Rangoon, Burma, India, during the eight weeks ended October 11, 1919, and the annual death rates from influenza per 1,000 population. Data regarding the deaths from influenza in Rangoon from June 1 to August 16, 1919, are given in the Public Health Reports, October 24, 1919, page 2417.

Week ended—	Number of deaths.	Annual death rate per 1,000.	Week ended—	Number of deaths.	Annual death rate per 1,000.
Aug. 23, 1919.....	58	9.3	Sept. 20, 1919.....	51	8.2
Aug. 30, 1919.....	61	9.8	Sept. 27, 1919.....	24	3.8
Sept. 6, 1919.....	50	8.0	Oct. 4, 1919.....	27	4.3
Sept. 13, 1919.....	40	6.4	Oct. 11, 1919.....	26	4.2

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

Reports Received During Week Ended Dec. 12, 1919.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	Oct. 14-20.....		3	
Canton.....	Oct. 5-18.....	4	2	
Hongkong.....	do.....	2	2	
India:				
Calcutta.....	Oct. 12-18.....		22	
Philippine Islands:				
Manila.....	Oct. 12-18.....	29	2	
Provinces.....				Oct. 12-18, 1919: Cases, 517; deaths, 412.
Albay.....	Oct. 12-18.....	94	76	
Ambos Camarines.....	do.....	34	40	
Batangas.....	do.....	36	24	
Cagayan.....	do.....	21	20	
Capiz.....	do.....	5	6	
Cavite.....	do.....	3	3	
Cebu.....	do.....	1	1	
Ilocos Norte.....	do.....	88	80	
Ilocos Sur.....	do.....	68	52	
Iloilo.....	do.....	11	5	
Isabela.....	do.....	23	8	
Laguna.....	do.....	11	8	
Mindoro.....	do.....	4		
Mountain.....	do.....	3	4	
Occidental Negros.....	do.....	31	21	
Pampanga.....	do.....	9	4	
Pangasinan.....	do.....	5	4	
Rizal.....	do.....	24	14	
Sorsogon.....	do.....	26	20	
Tarlac.....	do.....	19	7	
Union.....	do.....	1	8	
Siam:				
Bangkok.....	Aug. 31-Oct. 4.....	12	23	

PLAQUE.

China:				
Hongkong.....	Oct. 12-18.....	1	1	
Egypt.....				Jan. 1-Nov. 1, 1919: Cases, 781; deaths, 427.
Cities—				
Port Said.....	Oct. 25-27.....	1	1	English.
Suez.....	Nov. 4.....	2	2	Indian. One case pneumonic.
Provinces—				
Assiout.....	Nov. 6.....	2	2	Septicemic.
Minieh.....	Oct. 25-28.....	2	1	
India.....				Oct. 5-11, 1919: Cases, 1,490; deaths, 1,056.
Paraguay:				
Asuncion.....	Oct. 13.....	3	3	
On vessel:				
S.S. Nagoya.....	Oct. 21-27.....	6	.....	Vessel arrived Oct. 25 at port of London, England. Left Yokohama, Aug. 30. Oriental ports of call: Kobe, Shanghai, Hongkong, Penang, Singapore, and Colombo. In Egypt, Port Said. In Europe, Marseille, Gibraltar, and Plymouth.

SMALLPOX.

Canada:				
Nova Scotia—Counties.....	Nov. 16-22.....			Present in Antigonish, Richmond, and West Hants.

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 Dec. 12, 1919—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Ontario—				
Fort William.....	Nov. 22-29.....	1	.....
Hamilton.....	Nov. 23-29.....	1	.....
North Bay.....	Nov. 16-22.....	1	.....
Prescott.....	Nov. 12-29.....	1	.....
Quebec—				
Montreal.....	Nov. 24-29.....	1	.....
China:				
Amoy.....	Oct. 14-20.....	.....	.....	Present.
Chungking.....	Oct. 12-18.....	.....	.....	Do.
Nanking.....	Oct. 19-25.....	.....	.....	Do.
Cuba:				
Santiago.....	Nov. 10-20.....	1	.....
France:				
Paris.....	Oct. 19-25.....	1	.....
India:				
Calcutta.....	Oct. 12-18.....	.....	9	
Italy:				
Trieste.....	Nov. 2-8.....	1	.....
Mexico:				
Mexico City.....	Oct. 12-25.....	3	.....
Spain:				
Barcelona.....	Oct. 15-21.....	.....	4	

TYPHUS FEVER.

Chile:				
Antofagasta.....	Oct. 27-Nov. 2.....	9	.....
Santiago de Chile.....	Jan. 12-Oct. 31.....	5,969	1,201	Nov. 1-11, 1919: Cases, 397; deaths, 99.
Greece:				
Athens.....	Sept. 20-Oct. 6.....	1	.....
Mexico:				
Mexico City.....	Oct. 5-25.....	78	.....
San Luis Potosi.....	Nov. 16-22.....	.....	.....	Present.
Netherlands:				
Rotterdam.....	Oct. 5-11.....	1	.....

YELLOW FEVER.

Nicaragua:				
Leon.....	Oct. 19-Nov. 1.....	.....	.....	Present.

Reports Received from June 28 to Dec. 5, 1919.
CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Apr. 20-26.....	10	.....
Hambantota.....	July 25.....	.....	.....	Outbreak 148 miles from Colombo. Spread to other places.
China:				
Amoy.....	June 17-30.....	.....	25	
Do.....	July 1-Oct. 6.....	.....	718	
Antung.....	Aug. 5-Oct. 19.....	1,155	429	
Canton.....	June 8-21.....	10	3	
Do.....	June 29-Sept. 27.....	12	13	Present in foreign section, island Shamien, Aug. 8. Oct. 5-11: Present.
Do.....	Aug. 31-Sept. 6.....	1	1	
Chefoo.....	Aug. 31-Sept. 6.....	.....	.....	Daily average over 50 fatalities.
Foochow.....	July 10-26.....	.....	.....	To July 16: Average of 100 fatalities daily.
Hankow.....	Aug. 31-Sept. 6.....	1	.....	To July 26: Average of 30 cases daily.
Hongkong.....	July 13-Sept. 27.....	40	37	Five fatal cases European. July 27-Aug. 9: Epidemic.
Mukden.....	Sept. 6-13.....	.....	.....	Present.
Peking.....	Aug. 24-30.....	.....	1	Foreign.
Shanghai.....	Aug. 6-31.....	7	1	Choleraic disease prevalent from

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Swatow.....	May 25-June 28.....	.....	90	about July 15 with high mortality.
Do.....	June 29-Aug. 30.....	.....	120	
Do.....	Sept. 7-13.....	5	.....
Tientsin.....	Aug. 10-Sept. 20.....	245	4	
Tsinanfu.....	do.....	32	3	Cases are from reports of physicians from the foreign concessions and native city. Deaths are for the British concession.
Tsingtao.....	July 6-Sept. 21.....	140	83	Present: 30 miles from Swatow.
Ungkung.....	Aug. 16.....	.....	
Chosen (Korea).....	Aug. 15.....	3	.....	Aug. 26: 6 cases.
Anyo.....	do.....	1	.....	Keiki Province.
Chemulpo.....	Sept. 1-30.....	1	1	
New Wiju.....	Aug. 12.....	1	.....
Seoul.....	Aug. 1-Sept. 30.....	2	6	In a Korean arrived from Antung, China, where cholera was prevalent.
Shingshui.....	Aug. 1-31.....	1	.....	North Helian Province.
South Kankyo.....	Aug. 26.....	.....	.....	Present.
Provinces—				
Keiki.....	Sept. 12-Oct. 1.....	96	72	
Logen.....	do.....	4	3	
Kokai.....	do.....	1,628	592	
North Helian.....	do.....	867	446	
North Kankyo.....	do.....	253	112	
North Keisho.....	do.....	55	24	
North Zenra.....	do.....	184	76	
South Chusei.....	do.....	186	90	
South Helian.....	do.....	851	448	
South Kankyo.....	do.....	239	129	
South Zenra.....	do.....	8	5	
India:				
Bombay.....	Apr. 28-June 28.....	84	55	
Do.....	June 29-Oct. 4.....	201	125	
Calcutta.....	May 4-June 21.....	.....	617	
Do.....	June 29-Sept. 27.....	.....	144	
Karachi.....	July 24-30.....	3	2	
Madras.....	May 18-June 28.....	29	19	Jan. 19-25, 1919: Cases, 113; deaths, 75.
Do.....	July 12-Oct. 11.....	58	35	
Rangoon.....	Apr. 28-June 28.....	108	85	
Do.....	June 29-Oct. 4.....	81	78	
Indo-China:				
Cochin-China—				
Saigon.....	Apr. 21-June 29.....	386	272	City and district.
Do.....	July 28-Sept. 28.....	50	45	
Japan:				
Kobe.....	Sept. 21-27.....	1	1	
Pescadores Islands.....	July 14.....	40	.....	In 1 village.
Taiwan Island.....				July 2-Aug. 12, 1919: Cases, 398; deaths, 245.
Do.....	Aug. 21-Oct. 20.....	2,328	1,740	Present in vicinity.
Keelung.....	Aug. 8.....	.....		Present.
Taihoku.....	do.....	.....	
Tokyo.....	Aug. 18-24.....	4	.....
Yokohama.....	Sept. 1-7.....	1	.....	Sept. 5, 1 case on fishing vessel near Hameda.
Java:				
East Java.....				
Surabaya.....	Apr. 23-June 20.....	97	79	Apr. 2-June 20, 1919: Cases, 613; deaths, 507. June 25-July 15, 1919: Cases, 16; deaths, 18.
Do.....	June 25-July 15.....	15	13	
Do.....	July 30-Aug. 5.....	1	1	
Do.....	Aug. 13-19.....	1	1	
Mid-Java.....				
Samarang.....	Mar. 28-June 27.....	90	85	Mar. 28-June 27, 1919: Cases 2,079; deaths, 1,650.
West Java.....				May 2-June 26, 1919: Cases, 100; deaths, 67. July 18-Sept. 11, 1919: Cases, 29; deaths, 17.
Batavia.....	May 2-June 5.....	12	5	
Do.....	Aug. 2-28.....	6	.....
Buitenzorg.....	Aug. 15-21.....	1	.....
Tjilandjoer.....	do.....	2	2	
Manchuria:				
Dairen.....	Sept. 9-29.....	192	143	Present, Aug. 12.
Harbin.....	Aug. 7.....	.....	.....	Present and in surrounding country. Aug. 14: Epidemic with an estimated number of from 150 to 200 deaths.
Mesopotamia:				
Bassorah.....	July 20-26.....	1	.....
Persia:				
Arbedil.....	May 2.....	.....	.....	Present.
Enzeli.....	Apr. 23.....	1	.....

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

Reports Received from June 28 to Dec. 5, 1919—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia—Continued.				
Khorram-Ahab.....	May 3.....			
Mianedje.....	Apr. 28.....			Outbreak.
Zindjan.....	Apr. 21-May 4.....	49		Do.
Philippine Islands:				
Manila.....	Apr. 26-June 28.....	11	5	
Do.....	June 29-Aug. 2.....	261	133	
Do.....	Aug. 10-Sept. 6.....	259	121	
Do.....	Aug. 17-Sept. 20.....	290	127	
Provinces:				
Batangas.....	May 4-24.....	25	23	May 4-24; 1919: Cases, 567; deaths, 383.
Bulacan.....	do.....	48	25	
Cebu.....	do.....	162	84	
Laguna.....	do.....	20	15	
Mindoro.....	do.....	19	14	
Misamis.....	do.....	9	2	
Pampanga.....	do.....	166	131	
Tayabas.....	do.....	118	89	
Provinces:				
Batangas.....	June 1-28.....	79	61	June 1-28, 1919: Cases, 615; deaths, 435.
Bohol.....	June 15-28.....	11	8	
Bulacan.....	June 1-28.....	63	27	
Cavite.....	June 8-28.....	23	14	
Cebu.....	June 22-28.....	24	11	
Ilocos Sur.....	June 15-21.....	1		
Laguna.....	June 8-21.....	16	13	
Nueva Ecija.....	June 1-28.....	60	39	
Pampanga.....	do.....	105	79	
Pangasinan.....	June 8-28.....	113	81	
Tayabas.....	do.....	108	81	
Union.....	June 22-28.....	7	7	
Provinces:				
Albay.....	Aug. 31-Oct. 11.....	130	94	June 29-Oct. 11, 1919: Cases, 16,401; deaths, 11,811.
Ambos Camarines.....	July 27-Oct. 11.....	332	142	
Bataan.....	July 6-Sept. 27.....	14	12	
Batangas.....	June 29-Oct. 11.....	1,129	865	
Bohol.....	do.....	91	71	
Bulacan.....	do.....	500	369	
Cagayan.....	Sept. 21-Oct. 11.....	19	16	
Capiz.....	Aug. 24-Oct. 11.....	86	58	
Cavite.....	June 29-Oct. 11.....	320	213	
Cebu.....	do.....	960	581	
Davao.....	Sept. 7-Oct. 11.....	32	20	
Ilocos Norte.....	Aug. 10-Oct. 11.....	656	473	
Ilocos Sur.....	July 20-Oct. 11.....	1,301	871	
Iloilo.....	July 6-Oct. 11.....	459	337	
Laguna.....	do.....	474	330	
Leyte.....	Aug. 24-30.....	41	18	
Mindoro.....	July 20-Oct. 11.....	224	106	
Misamis.....	July 20-Aug. 23.....	11	8	
Mountain.....	July 6-Oct. 11.....	155	78	
Nueva Ecija.....	June 29-Sept. 27.....	561	391	
Occidental Negros.....	July 27-Oct. 11.....	231	156	
Oriental Negros.....	July 27-Sept. 27.....	174	100	
Pampanga.....	June 27-Sept. 6.....	568	461	
Pangasinan.....	June 27-Oct. 11.....	6,160	4,507	
Rizal.....	July 13-Oct. 11.....	933	577	
Sorsogon.....	July 27-Oct. 11.....	99	59	
Tarlac.....	Sept. 11-Oct. 11.....	97	75	
Tayabas.....	June 29-Oct. 11.....	439	357	
Union.....	July 6-Oct. 11.....	1,316	966	
Zambales.....	July 13-Oct. 4.....	34	23	
Siam:				
Bangkok.....	Apr. 12-June 28.....		697	
Do.....	June 30-Oct. 4.....		80	
Straits Settlements:				
Singapore.....	July 14-Oct. 4.....	130	108	Sept. 30: Present.
Sumatra:				
Medan.....	June 29-Aug. 23.....	46	25	Present in neighboring villages, June-July, 1919.
Turkey:				
Constantinople.....	July 28.....			Present.
On vessel:				
Steamship.....	Aug. 17.....	1		At Yokohama, from Shanghai, Aug. 12, 1919.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
PLAQUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Azores:				
Fayal Island.....	Sept. 6-19.....			Present.
Terceira Island.....	do.....			Do.
Brazil:				
Ceara.....	Aug. 3-Sept. 13....	84	21	
Pernambuco.....	May 26-June 1.....		1	
British East Africa:				
Kisumu.....	May 18-June 28.....			Do.
Do.....	June 29-July 26.....			Do.
Do.....	Aug. 3-6.....			Present in vicinity.
Nairobi.....	June 15-21.....	1		Native inspectors' report, cases, 52; deaths, 52; native chiefs' reports, deaths, 27.
Do.....	Aug. 17-23.....	5	2	Native inspectors' reports, cases, 25; deaths, 25; native chiefs' reports, deaths, 27.
Ceylon:				
Colombo.....	Aug. 10-Oct. 11.....	10	9	
Chile:				
Antofagasta.....	Aug. 18-23.....	3		
China:				
Amoy.....	June 17-23.....		1	
Do.....	Aug. 18-Sept. 13.....		1	Present.
Canton.....	May 25-June 28.....			Present. Cases, 3; present May 24-June 7, 1919.
Foochow.....	May 18-24.....			
Hongkong.....	June 15-28.....	42	33	
Do.....	June 29-Sept. 3.....	36	31	
Ecuador:				
Guayaquil.....	June 16-30.....	2	1	Bathing place, 65 kilometers from Guayaquil.
Posorja.....	June 1-30.....	3	1	Jan. 1-Aug. 6, 1919: Cases, 740; deaths, 465.
Egypt:				
Cities—				
Alexandria.....	July 29-29.....	1		
Do.....	Sept. 3-Oct. 21.....	10	2	
Ismailia.....	July 29.....	2		
Cairo.....	May 1.....		1	
Kantarah.....	June 19-20.....	4	2	
Do.....	July 31-Aug. 3.....	2	3	
Port Said.....	May 1-June 28.....	9	10	
Do.....	July 2-Aug. 19.....	21	17	
Suez.....	June 5-11.....	3	3	
Provinces—				
Assiout.....	May 17-June 24.....	80	41	
Do.....	July 3-Aug. 6.....	7	3	
Beni-Souf.....	May 19-June 21.....	6	5	
Fayoum.....	May 18-July 5.....	10	7	
Girgeh.....	May 15-July 8.....	32	10	
Menoufia.....	June 8-24.....	5	1	
Minieh.....	June 25-May 24.....	29	11	
Do.....	July 3-7.....	3	1	
France:				
Marseilles.....	Aug. 16-Sept. 2.....	5	3	Total number of cases reported to Aug. 27, 11: deaths, 3.
Great Britain:				
Liverpool.....	July 30.....	1	1	In dock laborer.
Greece:				
Athens.....	Oct. 20.....	5	3	
Pireus.....	Oct. 23.....	2	1	
Hawaii:				
Ah Poi Camp.....	Aug. 9.....	1	1	
Paathau.....	July 19.....	1		
Kukuiau.....	Sept. 23.....	3	3	
Paatulo.....	Sept. 23.....	2	1	
India:				
Bombay.....	Apr. 28-June 28.....	278	202	Apr. 27-June 28, 1919: Cases, 8,645; deaths, 6,983. June 29-Sept. 27, 1919: Cases, 12,073; deaths, 8,983.
Do.....	June 29-Oct. 11.....	67	46	
Calcutta.....	May 18-June 14.....		38	
Do.....	June 28-Aug. 2.....		22	
Karachi.....	May 18-June 28.....	145	132	
Do.....	June 29-Oct. 11.....	65	55	
Madras.....				
Madras Presidency.....	July 6-Aug. 16.....	381	237	Jan. 19-25, 1919: Cases, 2; deaths, 1.
Do.....	Aug. 1-Oct. 25.....	623	416	Jan. 19-25, 1919: Cases, 586; deaths, 347. May 30-June 5: Cases, 37; deaths, 28.
Rangoon.....	Apr. 28-June 28.....	75	63	
Do.....	July 6-Oct. 11.....	272	148	
Indo-China:				
Cochin China—				
Saigon.....	Apr. 21-June 29.....	31	23	City and district.
Do.....	July 24-Sept. 28....	17	11	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 22 to Dec. 5, 1919—Continued.
PLAQUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Yokohama.....	June 9-15.....	1	1	
Java:				
East Java.....				
Surabaya.....	Apr. 23-June 3.....	7	7	Apr. 8-June 28, 1919: Cases, 130; deaths, 130. July 23-Sept. 9, 1919: Cases, 53; deaths, 53.
Temanangoeng.....	July 30-Sept. 9.....	10	6	
Mid-Java.....	July 30-Sept. 2.....	43	43	
Samarang.....	Apr. 26-June 27.....	26	26	Apr. 26-May 30, 1919: Cases, 23; deaths, 23.
Mesopotamia:				
Bagdad.....	Apr. 19-June 20.....	346	269	
Do.....	July 19-25.....	2	1	
Do.....	Aug. 2-8.....	1		
Basra.....	May 3-10.....	108	89	Including suburb of Ashar. Total from date of outbreak, March, 1919, to June 24, 1919: Cases, 396; deaths, 256.
Do.....	July 20-Oct. 24.....	4	1	
Senegal:				
Dakar.....	Sept. 1-30.....	1	1	Reported present in vicinity.
Siam:				
Bangkok.....	Apr. 27-May 17.....	2	2	
Do.....	Sept. 28-Oct. 4.....		1	
Spain:				
Barcelona.....	Sept. 15-Oct. 6.....	10		
Straits Settlements:				
Singapore.....	Apr. 13-26.....	2	1	
Do.....	July 14-Aug. 30.....	12	7	
Syria:				
Beirut.....	Oct. 11.....	24		Present.
Turkey:				
Constantinople.....	Oct. 9.....			Bubonic and pneumonic.
On vessels:				
S. S. City of Sparta.....	Apr. 19-21.....	1	1	From Bombay, Apr. 3, 1919: Case, a soldier at sea.
Do.....	May 13-17.....	1	1	At Liverpool: Case, a native member of the crew. (Public Health Reports, June 27, 1919, p. 1463.)
S. S. Clan Lamont.....	Aug. 19.....	1		In dock in port of London, England. Vessel left Calcutta Mar. 23; arrived Buenos Aires May 9; sailed June 20; arrived Montevideo and sailed June 21; arrived at St. Vincent, Cape Verde Islands, July 10.
S. S. Framlington Court.....	July 25.....	1		From Alexandria, May 30; from Montreal, July 4; from Sydney, Nova Scotia, July 9; at Avonmouth, England, July 22, 1919. Arrived at Port Said, Egypt, July 12, 1919. At sea from July 10 to 12, 9 cases; total landed at Port Said, 17. Vessel from London via Marseilles; from Bombay, May 3, 1919.
S. S. Nankin.....	July 10-17.....	17	7	

SMALLPOX.

Algeria:				
Algiers.....	June 1-30.....	1	1	
Do.....	July 1-Sept. 30.....	17	5	
Arabia:				
Aden.....	May 13-19.....		1	Mar. 9-Apr. 1, 1919: Cases, 92.
Austria:				
Salzburg.....	Mar. 9-Apr. 5.....	50		
Vienna.....	do.....	17		
Azores:				
St. Michaels.....	June 7-20.....	1		
Brazil:				
Bahia.....	Apr. 20-June 7.....	4		Epidemic outbreak.
Do.....	Aug. 1-Oct. 23.....	1,203	500	
Para.....	Sept. 21-27.....		1	
Pernambuco.....	May 4-25.....	5		Jan. 1-May 3, 1919: Cases, 10.
Rio de Janerio.....	May 11-June 21.....	61	20	
Do.....	June 30-Sept. 27.....	457	115	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa:				
Kisumu.....	Mar. 2-8.....	1.....	1.....	
Mombasa.....	Mar. 1-June 7.....	275.....	37.....	
Mtebba.....	Mar. 24-Apr. 6.....			Present: In Uganda.
Nairobi.....	Mar. 1-May 31.....	3.....		
Do.....	Aug. 21-Sept. 13.....	18.....	2.....	
Prison Island Quarantine Station.....		1.....	1.....	Zanzibar Island. In February, 1919. From vessel from India.
British West Indies:				
Grenada.....	Sept. 27.....			1 case reported from Carriacou.
Canada:				
British Columbia—				
Vancouver.....	June 15-Sept. 11.....	8.....		
Manitoba—				
Winnipeg.....	Nov. 2-15.....	2.....		
New Brunswick—				
Campbellton.....	June 15-21.....	1.....		
Do.....	Aug. 1-Oct. 31.....	2.....		
Moncton.....	July 6-12.....	1.....		
St. John.....	July 27-Aug. 2.....	1.....		
Nova Scotia—				
Cities—				
Bridgenorth.....	July 27-Aug. 9.....			A few cases; mild.
Halifax.....	June 29-Sept. 20.....	65.....		June 15-28, 1919: Cases, 61.
Do.....	Oct. 19-Nov. 1.....	3.....		
Sydney.....	June 8-21.....	3.....		
Do.....	Aug. 1-Oct. 11.....	5.....		
Counties—				
Antigonish.....	June 28-Nov. 8.....			Present.
Colchester.....	Aug. 3-Nov. 1.....			Do.
Cumberland.....	Aug. 30-Oct. 11.....			Do.
Guy'sborough.....	Aug. 18-30.....			Do.
Do.....	Sept. 21-Nov. 1.....			Do.
Halifax.....	June 28-Nov. 8.....			Do.
Hants.....	do.....			Do.
Kings.....	Aug. 10-Oct. 11.....			Do.
Lunenburg.....	July 13-Aug. 16.....			Do.
Pictou.....	July 20-Oct. 18.....			Do.
Richmond.....	Aug. 24-Sept. 29.....			Present. Also on Cape Breton Island, July 27-Aug. 21.
Shelburne.....	Aug. 24-30.....			Present.
Victoria.....	Aug. 3-9.....			Do.
Ontario—				
Province—				
Hamilton.....	June 29-Nov. 22.....	4.....		May 1-June 30, 1919: Cases, 166;
Harwich.....	May 1-31.....	14.....	2.....	deaths, 4. July 1-31, 1919: Cases, 51; death, 1.
Niagara.....	Nov. 16-22.....	1.....		Township in Kent County.
North Bay.....	Sept. 21-27.....	1.....		
Ottawa.....	June 15-21.....	2.....		
Do.....	June 29-Sept. 6.....	3.....		
Peterborough.....	June 15-21.....	4.....		
Do.....	Oct. 2-Nov. 3.....	22.....	9.....	
Toronto.....	Aug. 31-Nov. 22.....	455.....		
Walpole Island.....	May 1-31.....	42.....		Outbreak in first half of November, 1919: Cases, about 368.
Prince Edward Island—				Kent County, Island in Lake St. Clair. Among Indians.
Charlottetown.....	July 16-Nov. 5.....	9.....		
Quebec—				
Montreal.....	June 8-28.....	18.....		In Bonaventure and Gaspe Counties, Aug. 1-31, 1919: 2 cases.
Do.....	Aug. 24-Nov. 8.....	23.....		
Quebec.....	June 8-28.....	18.....		June 8-14, 1919: 1 case on incoming vessel.
Do.....	July 5-Nov. 15.....	44.....		Estimated. On Indian reserve.
Restigouche.....	June 15-July 31.....	40.....		
Saskatchewan—				
Regina.....	Oct. 26-Nov. 1.....	1.....		
Ceylon:				
Colombo.....	May 1-31.....	4.....		June 17-23.
Do.....	July 13-Aug. 23.....	3.....	3.....	
China:				
Amoy.....	May 20-June 16.....	13.....		
Do.....	July 8-21.....			Present.
Do.....	July 29-Oct. 6.....		5.....	
Canton.....	May 18-June 21.....			Do.
Do.....	July 1-Oct. 18.....			Do.
Chefoo.....	June 8-21.....			Do.

December 12, 1919.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Chungking.....	May 4-June 28.....			Present.
Do.....	June 29-Oct. 4.....			Do.
Foochow.....	Jan. 12-June 28.....			Do.
Do.....	June 29-Oct. 4.....			Do.
Hankow.....	Aug. 31-Sept. 6.....	3		
Hongkong.....	May 18-June 28.....	5	5	Do.
Do.....	Aug. 31-Sept. 13.....			Do.
Nanking.....	May 25-June 28.....			Do.
Do.....	June 29-Oct. 4.....			Do.
Chosen (Korea):				
Chemulpo.....	Apr. 1-June 20.....	22	4	
Do.....	July 1-31.....	1	1	
Fusan.....	do.....	336	96	
Do.....	do.....	4		
Seoul.....	Apr. 1-May 31.....	3	1	
Do.....	Aug. 1-31.....	1		
Cuba:				
Habana.....	Aug. 2-Oct. 23.....	35		First case from S. S. Venetia from Spanish ports; arrived Habana about July 20, 1919.
Czecho-Slovakia:				
Prague.....	May 18-June 21.....	11	2	
Denmark:				
Copenhagen.....				Apr. 2-26, 1919: Cases, 11.
Egypt:				
Alexandria.....	May 14-June 21.....	233	95	
Do.....	June 25-Oct. 21.....	257	132	
Cairo.....	Jan. 2-May 20.....	544	124	
Do.....	June 18-Sept. 9.....	422	161	
Port Said.....	July 9-Sept. 9.....	5		
Finland:				
Helsingfors Provinces—	Aug. 16-Sept. 15.....	6		Apr. 16-June 30, 1919: Cases, 460. July 1-15, 1919: Cases, 44. Aug. 1-31, 1918: Cases, 8.
Abo Och Bjorneborg.....	Apr. 16-June 30.....	13		
Kuopio.....	do.....	88		
Do.....	July 1-15.....	1		
Finland St. Michael.....	Apr. 16-June 30.....	17		
Do.....	do.....	73		
Tavastehus.....	July 1-15.....	2		
Do.....	Apr. 16-June 30.....	63		
Vasa.....	July 1-15.....	5		
Viborg.....	Apr. 16-June 14.....	12		
Do.....	Apr. 16-June 30.....	340		
Do.....	July 1-15.....	36		
France:				
Havre.....	May 23-30.....	1		
Marseille.....	May 1-June 30.....		5	
Paris.....	May 11-June 28.....	17	28	
Do.....	June 20-Sept. 20.....	69	15	
Gibraltar:				
Great Britain:				
Bradford.....	Sept. 21-27.....	3		
Cardiff.....	June 15-Sept. 20.....	10		
Dundee.....	June 1-7.....	1		
Do.....	Aug. 18-23.....	9	6	
Glasgow.....	June 8-21.....	5		
Liverpool.....	June 22-28.....	1		
Do.....	June 20-Sept. 6.....	6		
London.....	May 25-June 28.....	13		
Do.....	June 20-Aug. 9.....	18	2	
Manchester.....	July 27-Sept. 6.....	11		
Greece:				
Drama.....	Sept. 29-Oct. 25.....			Present.
Salenika.....	May 15-June 28.....		48	
Do.....	June 29-Oct. 5.....		73	
India:				
Bombay.....	Apr. 28-June 28.....	712	283	
Do.....	July 6-Oct. 11.....	111	68	
Calcutta.....	May 4-June 21.....		444	
Do.....	June 29-Sept. 27.....		176	
Karachi.....	May 4-June 21.....	28	17	
Do.....	Sept. 21-Oct. 4.....	19	19	
Madras.....	May 18-June 28.....	171	55	Jan. 19-25, 1919: Cases, 29; deaths, 25.
Do.....	July 9-Oct. 11.....	327	147	
Rangoon.....	Apr. 28-June 28.....	188	92	
Do.....	July 6-Oct. 11.....	99	38	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Cochin China—				
Saigon.....	Apr. 21-May 18.....	11	4	
Do.....	Aug. 11-Sept. 28.....	9	2	City and district.
Italy:				
Genoa.....	July 7-Oct. 19.....	25	.....
Leghorn.....	June 16-29.....	2	.....
Messina.....	June 1-21.....	13	.....
Do.....	June 29-Oct. 19.....	634	276	Province, June 8-21, 1919: Cases, 23; deaths, 3.
Milan.....	Mar. 1-June 30.....	50	8	
Do.....	July 1-Aug. 31.....	46	4	
Milazzo.....	June 1-7.....	1	1	
Naples.....	June 2-29.....	103	91	
Do.....	June 30-Aug. 17.....	122	119	
Palermo.....	May 2-June 20.....	39	5	
Do.....	June 28-July 5.....	37	9	
Trieste.....	Sept. 28-Oct. 4.....	1	.....
Turin.....	May 18-June 29.....	5	1	
Do.....	July 6-Sept. 7.....	8	.....
Venice.....	May 26-June 1.....	2	.....
Japan:				
Kobe.....	May 4-Sept. 7.....	173	78	
Nagoya.....	June 1-7.....	1	1	
Taiwan Island.....	May 21-Aug. 12.....	20	6	Entire island.
Tokyo.....	May 1-June 5.....	2	.....
Yokohama.....	May 26-June 1.....	1	.....
Java:				
East Java—				
Surabaya.....	May 27-June 3.....	2	.....
Do.....	July 30-Sept. 2.....	6	.....
Mid-Java.....	Apr. 26-May 16.....	7	.....
West Java—				
Batavia.....	Apr. 18-June 5.....	4	1	
Do.....	July 25-Sept. 25.....	68	16	May 2-June 26, 1919: Cases, 615; deaths, 148. June 27-Sept. 25, 1919: Cases, 433; deaths, 93.
Buitenzorg.....	Aug. 15-21.....	5	.....
Garet.....	do.....	41	6	
Meester Cornelis.....	Aug. 15-28.....	11	4	
Pandeglang.....	Aug. 22-28.....	4	.....
Tasikamalaya.....	Aug. 15-21.....	3	3	
Malta.....	May 1-31.....	1	.....
Do.....	Aug. 1-Sept. 30.....	5	1	
Manchuria:				
Dairen.....	May 13-June 2.....	3	2	
Mukden.....	July 6-Sept. 13.....	.....	.....	Present.
Mesopotamia:				
Bagdad.....	May 29-30.....	1	.....
Mexico:				
Cananea.....	Feb. 1-28.....	7	.....
Do.....	Apr. 1-30.....	1	.....	State of Sonora.
Guadalajara.....	June 1-30.....	1	.....
Mexico City.....	June 1-28.....	20	1	
Do.....	June 29-Sept. 6.....	4	.....
Do.....	Sept. 28-Oct. 4.....	2	.....
Piedras Negras.....	June 22-28.....	2	2	
Salina Cruz.....	Sept. 1-15.....	1	.....
Do.....	Sept. 17-30.....	2	.....
San Jerenimo.....	June 17-30.....	5	.....
San Luis Potosi.....	Sept. 7-13.....	.....	1	
Do.....	Sept. 21-Nov. 15.....	.....	6	
Tehuantepec.....	Sept. 16.....	2	.....
Vera Cruz.....	July 6-19.....	4	.....	In State of Oaxaca.
Do.....	June 29.....	4	9	
Newfoundland:				
St. Johns.....	Jan. 4-June 27.....	67	.....	Jan. 4-June 2, 1919: Outports, 412 cases. June 28-Sept. 5, 1919: Cases, 61. Sept. 20-Nov. 21, 1919: Cases, 15.
Do.....	June 28-Nov. 21.....	25	.....	Present on Pilley's Island in October, 1919. At Shoal Arm, Oct. 24.
Palestine:				
Jaffa.....	Jan. 30-Feb. 5.....	2	.....
Philippine Islands:				
Manila.....	May 11-17.....	1	.....

December 12, 1919.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	July 26-Oct. 25.....	85	25	
Oporto.....	June 1-28.....	25	33	
Do.....	June 29-Oct. 25.....	82	50	
Portuguese East Africa:				
Lourenco Marques.....	Apr. 1-May 31.....	2	1	
Russia:				
Riga.....	June 1-30.....			
Do.....	July 1-31.....	203		
Siberia:				
Vladivostok.....	June 8-30.....	45		
Do.....	July 1-31.....	12	3	
South Africa:				
Johannesburg.....	Aug. 1-31.....	4	1	
Spain:				
Almeria.....	May 18-June 30.....	68	6	
Barcelona.....	May 15-June 19.....	3	6	
Do.....	June 26-Oct. 7.....		47	
Bilbao.....	May 1-16.....	1		
Do.....	Aug. 1-Sept. 20.....	6		
Cadiz.....	Apr. 1-May 31.....		5	
Do.....	July 1-31.....		2	
Madrid.....	May 1-31.....	3		
Do.....	Aug. 1-31.....	2		
Malaga.....	Aug. 1-Oct. 31.....		2	
Seville.....	do.....		1	
Valencia.....	May 11-June 29.....	233	15	
Do.....	July 14-Oct. 25.....	109	18	
Vigo.....	Apr. 12.....	2		
Do.....	July 6-Nov. 1.....	38	14	
Straits Settlements:				
Singapore.....	Mar. 24-May 17.....	6	3	From vessel, Mar. 22, 1919; Present in villages in vicinity.
Do.....	July 8-27.....	5	1	
Sumatra:				
Belawan.....	Aug. 26-Sept. 4.....			Present.
Medan.....	June 26-Aug. 23.....	2		June 22-July 12, 1919; Present in surrounding country.
Tunis:				
Tunis.....	June 15-28.....	2	1	
Do.....	June 29-July 5.....	3	2	
Union of South Africa:				
Johannesburg.....	May 1-31.....	1		
On vessels:				
S. S. Eastern.....	Apr. 25-26.....	2	1	Death at sea. Second case landed at Woodmans Quarantine Station, Fremantle, Australia, Apr. 29. Vessel from England via Egypt and Colombo.
S. S. Glenaffrie.....	Oct. 10.....	1		At Trinidad, West Indies. From Bahia. In person embarked at Bahia.
S. S. Karoa.....	Apr. 19.....	1		Landed at Colombo. Vessel from the United Kingdom via Egypt and Colombo.
S. S. Khyber.....	Apr. 10-May 4.....	4		From Liverpool, via Port Said, Suez, and Colombo. One case landed at Port Said, Apr. 10; 2 cases at Colombo, Apr. 22; 1 at quarantine, Fremantle, Australia, May 4, 1919.
S. S. Rio Negros.....	Oct. 4.....	1		At Port of Spain, Trinidad, from Bahia. From Montevideo, Aug. 31; Santos, Sept. 8; Rio de Janeiro, Sept. 15. Arrived Port of Spain, Oct. 4, 1919.
S. S. War Armour.....		7		En route from Naples to Aden and Colombo. Vessel arrived at Fremantle, Australia, June 22, 1919. Cases landed at Colombo.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.
Reports Received from June 28 to Dec. 5, 1919—Continued.
TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	May 1-June 30.....	82	11	
Do.....	July 1-Aug. 31.....	4	.....
Austria:				Mar. 23-Apr. 5, 1919: Cases, 118.
Vienna.....	Mar. 23-Apr. 5.....	9	.....
Brazil:				Mar. 30-Apr. 5, 1919: Cases, 2.
Rio de Janeiro.....	May 4-June 21.....	3	.....
Do.....	July 6-Sept. 20.....	9	.....
Chile:				
Antofagasta.....	Oct. 20-26.....	9	.....
Valparaiso.....	Oct. 12-25.....	.....	18	
China:				
Antung.....	July 6-Aug. 12.....	4	.....
Changsha.....	May 11-17.....	1	1	
Chosen (Korea):				
Chemulpo.....	Apr. 1-June 30.....	85	10	
Do.....	July 1-31.....	1	.....
Fusan.....	May 1-June 30.....	5	2	
Do.....	July 1-31.....	1	.....
Scoul.....	Apr. 1-June 30.....	147	28	
Do.....	July 1-31.....	1	.....
Colombia:				
Barranquilla.....	July 12-19.....	.....	1	
Czecho-Slovakia:				
Prague.....	May 18-24.....	1	.....
Egypt:				
Alexandria.....	May 14-June 29.....	474	248	
Do.....	June 28-Oct. 21.....	485	158	
Cairo.....	Jan. 2-Sept. 9.....	4,148	2,296	
Port Said.....	Jan. 9-June 10.....	11	7	
Do.....	July 16-Sept. 9.....	11	5	
Finland:				Apr. 16-June 30, 1919: Cases, 25.
Helsingfors.....	Sept. 1-15.....	1	.....
Provinces—				
Abo Och Bjorneborg.....	May 15.....	1	.....
Nyland.....	Apr. 10-May 31.....	4	.....
St. Michael.....	Apr. 16-June 30.....	15	.....
Viborg.....	Apr. 16-June 14.....	3	.....
Germany:				Military. Civil.
Do.....	Jan. 12-Feb. 22.....	344	.....	Civil, military, prisoners of war, deserters.
Do.....	Feb. 22-Mar. 22.....	220	.....	55 cases among German troops and among prisoners of war.
Do.....	Mar. 23-Apr. 12.....	333	.....	Of these, 90 among Polish workmen and Russians; during same period, 105 cases among German troops and prisoners of war. In addition, Apr. 1-26, 41 cases were notified among Polish workmen and refugees.
Do.....	Apr. 13-26.....	62	.....
Do.....	Apr. 27-May 17.....	126	.....
Great Britain:				
Glasgow.....	June 8-July 5.....	13	2	
Dublin.....	Aug. 17-30.....	3	.....
Dunhee.....	June 30-July 5.....	3	.....	June 15-21, 1919: 1 case.
Greece:				
Athens.....	July 21-27.....	.....	1	
Saloniki.....	May 15-June 14.....	.....	5	
Do.....	July 6-Aug. 23.....	.....	18	
Hungary:				Feb. 24-May 9, 1919: Cases, 258.
Budapest.....	Sept. 24-May 9.....	124	6	
Dubreezin.....	do.....	42	.....
India:				
Rangoon.....	July 1-31.....	.....	21	Apr. 28-June 8, 1919: Cases, 3,470;
Italy:				Austrian prisoners, 3,321; Italian soldiers, 82; civil population, 67.
Do.....	.....	.....	.....	June 9-15, 1919: Present in 14 Provinces, with 761 cases, viz., Austrian prisoners, 631; Italian soldiers, 23; Roumanian soldiers, 97; civil population, 10.
Do.....	.....	.....	.....	June 16-22, 1919: Present in 12 Provinces, with 127 cases, viz., Austrian prisoners, 102; Italian soldiers, 8; civil population, 12; Roumanian soldiers, 5.

December 12, 1919.

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

Reports Received from June 28 to Dec. 5, 1919—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy.....				June 23-29, 1919: Present in 14 Provinces, with 117 cases, viz, Austrian prisoners, 107; Italian soldiers, 3; civil population, 7.
Do.....				July 6-13, 1919: Cases, 14, occurring in 7 Provinces—7 prisoners of war, 5 civilians, 2 Italian soldiers.
Do.....				July 21-27, 1919: Cases, 5, occurring in 4 Provinces—1 Austrian prisoner; 4 civil population.
Do.....				July 28-Aug. 3, 1919: 6 cases in 3 Provinces; civil population.
Do.....				Sept. 8-21, 1919: Cases, 8, occurring in 5 Provinces among the civil population.
Genoa.....	June 25-July 1.....	91.....		
Naples.....	May 12-June 22.....	50.....	16.....	
Do.....	June 30-Aug. 17.....	17.....	6.....	
Palermo.....	July 21-27.....	2.....		
Venice.....	Apr. 27-June 14.....	58.....	9.....	
Do.....	June 30-Sept. 14.....	42.....	6.....	
Trieste.....	June 6-12.....	1.....		
Japan:				
Nagasaki.....	June 16-July 1.....	3.....		
Do.....	July 14-Oct. 12.....	15.....	7.....	
Java:				
East Java—				
Passoeroean.....	Aug. 6-12.....	2.....		
Do.....	Aug. 20-Sept. 2.....	2.....	1.....	
Surabaya.....	July 20-Aug. 19.....	5.....	1.....	
West Java—				
Bandoeng.....	Aug. 15-21.....	5.....		
Batavia.....	Aug. 8-14.....	12.....	2.....	
Buitenzorg.....	Aug. 22-28.....	3.....		
Mesopotamia:				
Bagdad.....	Apr. 19-June 6.....	34.....	22.....	
Do.....	July 26-Aug. 15.....	3.....		
Mexico:				
Guadalajara.....	May 1-31.....	1.....		
Do.....	Sept. 24-30.....	3.....		
Mexico City.....	May 4-June 28.....	216.....		
Do.....	June 29-Oct. 4.....	313.....		
San Luis Potosi.....	July 27-Nov. 15.....			
Newfoundland:				Present and in surrounding country.
St. Johns.....	June 21-27.....	1.....		From vessel.
Palestine:				
Jaffa.....				Oct. 22-Dec. 22, 1918: Cases, 8; deaths, 3.
Portugal:				
Lisbon.....	June 22-28.....	1.....		
Do.....	July 26-Aug. 23.....	13.....	2.....	
Oporto.....	June 1-15.....	52.....		
Do.....	June 30-Oct. 11.....	81.....	42.....	
Russia:				
Archangel.....	May 15-June 1.....	9.....	2.....	
Riga.....	May 1-June 30.....	2,826.....		
Do.....	July 1-31.....	1,247.....		
Siberia:				
Vladivostok.....	June 9-30.....	104.....	9.....	
Do.....	July 1-31.....	56.....	13.....	
Spain:				
Barcelona.....	May 15-21.....		1.....	
Madrid.....	May 1-31.....		1.....	
Do.....	Aug. 1-Sept. 30.....	1.....	3.....	
Sumatra:				
Medan.....	June 26-Aug. 23.....	35.....	4.....	
Switzerland:				
Zurich.....	Sept. 7-20.....	9.....		
Syria:				
Mersina.....	Feb. 13-19.....			Present.
Smyrna.....	Sept. 20.....			Do.
Tunis:				
Tunis.....	May 24-June 21.....	3.....	1.....	
Do.....	July 20-Oct. 25.....	5.....	4.....	

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

Reports Received from June 28 to Dec. 5, 1919—Continued.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia.....	Apr. 12-June 14....	48	15	Jan. 12-May 17, 1919: Cases, 43;
Do.....	July 6-Sept. 6.....	25	5	deaths, 25. July 29, 1919, reported seriously prevalent in
Pernambuco.....	Sept. 15-21.....	1	1	States of Bahia and Pernambuco.
Santos.....	Aug. 18-24.....		1	
Canal Zone.....	Aug. 10-12.....	1	1	Patient at Corinto, Nicaragua, at quarantine from S. S. Salvador.
Ecuador:				
Guayaquil.....	May 1-31.....	1	1	July 31, 1919: At Leon, Nicaragua; Aug. 2, 1919. Embarked Aug. 6 at Corinto.
Naranjito.....	May 1-June 15.....	2	1	
Honduras:				
Amapala.....	Aug. 28-Sept. 6....	9	1	
Mexico:				
Merida.....	June 30-Nov. 15....	39	18	Including 4 cases brought from
Temax.....	Sept. 14-20.....	4	2	Temex and cases from Muna.
Nicaragua:				
Chinandega.....	Oct. 16.....			Present.
Leon.....	Sept. 1-Oct. 16.....			Present, and in vicinity.
Do.....	Sept. 5.....			Present.
Managua.....	Oct. 16.....			Do.
Peru:				
Department of Piura—				
Paita.....	July 10-22.....	8	5	June 1-Aug. 12, 1919: Cases, 10; deaths, 6.
Piura.....	do.....	46	10	June 1-Aug. 12, 1919: Cases, 90; deaths, 20.
Salvador:				
La Union.....	July 6.....	2		
St. Miguel.....	June 24-July 6.....	4		
San Salvador.....	do.....	1	1	75 miles from city of San Salvador.