

# PUBLIC HEALTH REPORTS

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**VOL. 32**

**JUNE 29, 1917**

**No. 26**

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## **ROCKY MOUNTAIN SPOTTED FEVER IN MONTANA.**

The State Health Officer of Montana reported that fourteen cases of Rocky Mountain spotted fever were notified in the State of Montana during the month of May, 1917. The distribution of the cases by counties is shown in the table on page 1044.

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## **POLIOMYELITIS (INFANTILE PARALYSIS).**

### **PREVALENCE AND GEOGRAPHIC DISTRIBUTION DURING 1916.**

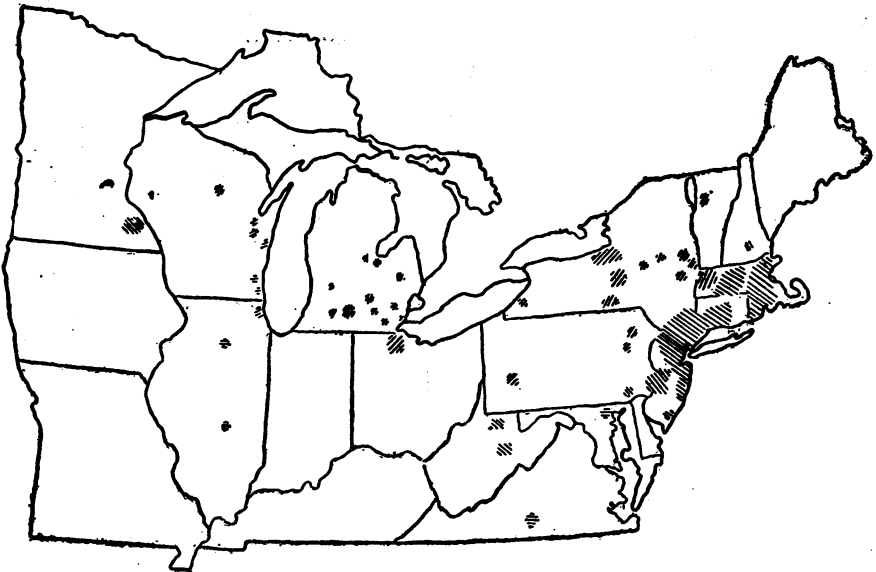
The year 1916 was one characterized by an unusual prevalence of poliomyelitis (infantile paralysis) throughout the United States. In many localities the disease became epidemic. Poliomyelitis has been with us for several decades, occasional cases being reported here and there throughout the country during all months of the year. There have usually been more cases in the summer than in the winter months.

The principal epidemic area last year comprised northern New Jersey, southeastern New York, and most of Connecticut, Massachusetts, and Rhode Island. Special interest in the disease was aroused about the 1st of July by its unusual prevalence in New York City.

The New York City epidemic began about the middle of June. Early in July increasing numbers of cases were being reported in Newark and Jersey City, N. J., and neighboring communities. By July 15 the disease was on the increase in Philadelphia, Pa.; Bridgeport, Conn.; Camden, N. J.; and Toledo, Ohio. By the 1st of August cases were being reported in Baltimore, Md.; Boston, Mass.; Chicago, Ill.; St. Paul and Minneapolis, Minn.; Providence, R. I.; Syracuse, N. Y.; and Trenton, N. J. The disease was at its height in July, August, and September. In December, after the disease had subsided elsewhere, an outbreak developed in the northeastern part of West Virginia with foci at Elkins, Grafton, and Fairmont.

The localities which were particularly invaded during 1916 are shown on the map below. Billings, Mont., which is not on the map, also had a considerable outbreak in proportion to its population.

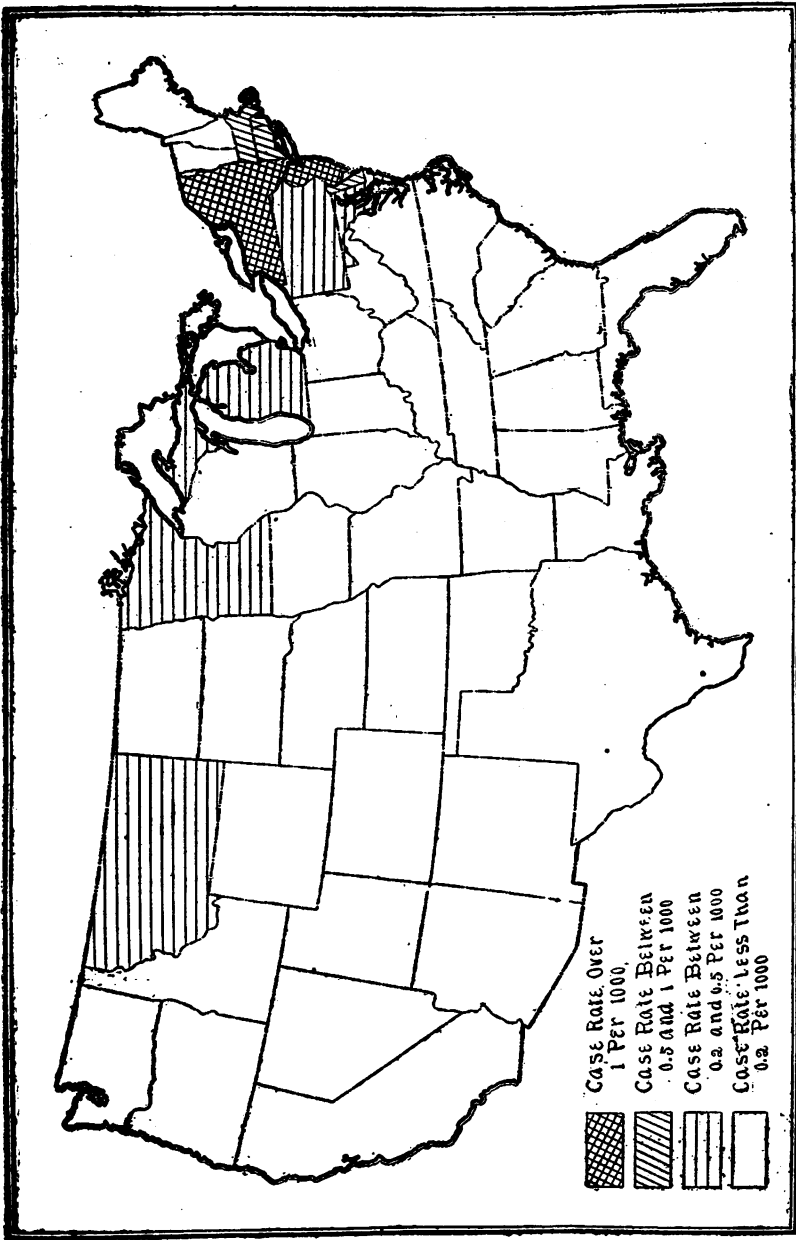
The table on page 1017 shows the number of cases reported monthly by States. It will be noted that a greater number of cases was reported during the first four months of the year in Virginia than in any other State. In a few of the States there was an increase in the occurrence of the disease during May and June but in most of the States the distinct increase began in July, and in Maine and Vermont not until August. The highest reported case rate for the year was in New Jersey, where there was a rate of 1.376 per thousand population. The next highest rate was that of New York State with



Shaded areas show localities particularly involved in the poliomyelitis epidemic of 1916.

a rate of a little under 1.3 per thousand population. Connecticut came next with a reported rate of 0.764 and Massachusetts with a rate of 0.518. Rhode Island was about as heavily infected as Connecticut and Massachusetts. Maryland, Michigan, Minnesota, Montana, and Pennsylvania had reported case rates of between 0.2 and 0.5 per thousand population. The other States in which records of the prevalence of the disease were kept had reported case rates of less than 0.2 per thousand.

The relative prevalence of the disease in the several States, based upon the number of cases in proportion to the population, is shown in the map on page 1015. The more densely shaded States represent those having the heaviest infection. The States without any shading whatsoever represent those in which the reported case rates were



The density of the shading shows the relative prevalence of poliomyelitis by States during 1916.

less than 0.2 per thousand population or in which the disease is not required to be reported and its prevalence is therefore unknown.

The numbers of cases reported in cities having over 100,000 population were given in the Public Health Reports of April 27, 1917, page 601. The following is a list of smaller cities in which 5 or more cases of the disease were reported, together with the number of cases:

From 50,000 to 100,000 population.—		From 25,000 to 50,000 population—Continued.	
Atlantic City, N. J.....	27	Kingston, N. Y.....	8
Bayonne, N. J.....	44	Lansing, Mich.....	25
Binghamton, N. Y.....	7	Lynchburg, Va.....	20
Duluth, Minn.....	6	McKeesport, Pa.....	12
Elizabeth, N. J.....	71	Medford, Mass.....	20
El Paso, Tex.....	5	Montclair, N. J.....	32
Erie, Pa.....	7	Mount Vernon, N. Y.....	54
Evansville, Ind.....	7	Newport, R. I.....	13
Flint, Mich.....	44	New Rochelle, N. Y.....	125
Hoboken, N. J.....	10	Newton, Mass.....	20
Holyoke, Mass.....	117	Norristown, Pa.....	19
Lancaster, Pa.....	21	Orange, N. J.....	82
Malden, Mass.....	46	Perth Amboy, N. J.....	30
Manchester, N. H.....	18	Pittsfield, Mass.....	67
Mobile, Ala.....	10	Quincy, Mass.....	66
New Britain, Conn.....	28	Roanoke, Va.....	5
Passaic, N. J.....	8	Salem, Mass.....	8
Pawtucket, R. I.....	13	Waltham, Mass.....	28
Portland, Me.....	5	Waterloo, Iowa.....	5
Saginaw, Mich.....	18	West Hoboken, N. J.....	36
Schenectady, N. Y.....	10	From 10,000 to 25,000 population—	
Somerville, Mass.....	48	Adrian, Mich.....	6
Troy, N. Y.....	20	Appleton, Wis.....	8
Utica, N. Y.....	36	Asbury Park, N. J.....	26
Wilkes-Barre, Pa.....	6	Beverly, Mass.....	24
Yonkers, N. Y.....	140	Billings, Mont.....	30
From 25,000 to 50,000 population—		Bloomfield, N. J.....	24
Battle Creek, Mich.....	34	Burlington, Vt.....	6
Bay City, Mich.....	25	Coffeyville, Kans.....	5
Brookline, Mass.....	21	Dunkirk, N. Y.....	6
Cedar Rapids, Iowa.....	5	Eau Claire, Wis.....	5
Chelsea, Mass.....	8	Fulton, N. Y.....	31
Cranston, R. I.....	12	Greenville, S. C.....	5
Cumberland, Md.....	5	Greenwich, Conn.....	46
Decatur, Ill.....	15	Hackensack, N. J.....	21
East Orange, N. J.....	56	Harrison, N. J.....	36
Evanston, Ill.....	8	Ithaca, N. Y.....	26
Everett, Mass.....	27	Johnstown, N. Y.....	10
Fitchburg, Mass.....	9	Kearny, N. J.....	46
Green Bay, Wis.....	8	La Salle, Ill.....	6
Haverhill, Mass.....	12	Long Branch, N. J.....	25
Hazleton, Pa.....	7	Manitowoc, Wis.....	6
Jackson, Mich.....	9	Middletown, N. Y.....	18
Kalamazoo, Mich.....	11	Morristown, N. J.....	6
Kenosha, Wis.....	7	North Adams, Mass.....	38

From 10,000 to 25,000 population—  
Continued.

Northampton, Mass.....	22
Ossining, N. Y.....	23
Oswego, N. Y.....	59
Peekskill, N. Y.....	16
Plainfield, N. J.....	45
Plymouth, Pa.....	5
Pontiac, Mich.....	9
Salem, Oreg.....	7
Saratoga Springs, N. Y.....	9

From 10,000 to 25,000 population—  
Continued.

Southbridge, Mass.....	5
Wausau, Wis.....	8
Webster, Mass.....	5
Westfield, Mass.....	14
West New York, N. J.....	47
West Orange, N. J.....	40
White Plains, N. Y.....	45
Winona, Minn.....	38
Woburn, Mass.....	6

*Cases of poliomyelitis reported by States, 1916.*

State.	Jan. 1 to Apr. 30.	May.	June.	July.	August.	September.	October.	November.	December.	Total cases.	Case rate per 1,000 population.
Alabama.....	4	3	8	77	65	13	8	4	4	186	0.080
Arizona.....	1			1	1	1	2			6	.023
California.....	14	2	4	12	19	14	21	25	21	132	.045
Colorado.....	1		1	2	2	4	6			16	.017
Connecticut.....	8	1	4	165	367	274	91	30	11	951	.764
District of Columbia.....	1	1		8	18	6	5			39	.107
Indiana.....		1	1	25	38	64	57	16	5	207	.073
Iowa.....	8		4	32	86	66	32	25	6	259	.117
Kansas.....	5		2	12	23	21	26	8	6	103	.056
Louisiana.....	18	3	6	25	9	5	3	5	3	77	.042
Maine.....					15	56	42	30	6	149	.193
Maryland.....	5			10	65	103	121	43	5	352	.258
Massachusetts.....	16	4	10	106	252	622	701	179	36	1,926	.518
Michigan.....	16	4	7	62	183	195	101	29	19	616	.202
Minnesota.....	6	9	19	232	337	193	90	19	4	1,909	.399
Mississippi.....	36	36	57	59	31	14	10	8	18	269	.138
Montana.....			1	11	28	33	13	6	2	94	.205
New Jersey.....	7	2	4	647	2,126	964	258	41	6	4,055	1.376
New York.....	30	16	345	4,054	5,773	2,201	643	122	39	13,223	1.287
Ohio.....	31	2	7	100	172	147	62	18	7	546	.106
Oregon.....	2				5	26	4	1		38	.045
Pennsylvania.....	10	3	9	120	747	804	379	83	26	2,181	.256
South Carolina.....	1	1		20	58	24	13	6		123	.076
Texas.....			6	22	25	19	6	1	7	86	.019
Vermont.....	5		1	11	20	22	2	3		64	.176
Virginia.....	51	28	11	24	44	64	48	46	14	330	.151
Washington.....	1		1	5	2	12	5	2	2	30	.020
West Virginia.....	7			5	13	18	18	4	17	82	.059
Wisconsin.....	3			20	174	163	87	19	9	475	.190
Wyoming.....					2	3		1	1		.039

<sup>1</sup> The health officer states that cases are known not to be completely reported.

## CHEMICAL CLOSETS.

Health officers in small towns and rural communities are frequently confronted with the question as to whether the so-called "chemical closets" which have appeared on the market during the past few years can be considered to be satisfactory from a sanitary point of view. A brief statement at this time of their advantages and limitations is therefore desirable.

A chemical closet is one whose primary object is the chemical disinfection of excreta. This is accompanied by more or less liquefaction according to the nature of the chemical used. The result is accomplished by the introduction into the receiving can, tank, or

other device, of an aqueous solution or emulsion of a chemical substance or mixture supposed to possess germicidal and, in certain cases, deodorizing and liquefying properties. There are at least two general types of chemical closet. One of these depends upon the action of an alkaline emulsion of a coal tar or other oily disinfectant, the principal object being disinfection and deodorization, and the other, upon a strongly caustic solution with or without other disinfectants with the additional object of rendering the tank contents semiliquid. These closets generally possess, in common with other types of privy, special devices for ventilation. In distinction from other privies, their installation within the house and even in the bedroom or other dwelling room, is being recommended by the manufacturers. Among the special advantages claimed are all the conveniences of the inside water-closet, simplicity of operation and ease and safety of disposing of the liquid material with entire freedom from any objectionable or obnoxious features.

A sanitary privy may be defined as a device in which human excreta may be deposited and, pending final disposal, stored in such a way that there shall be no channel of communication between the excreta and the bodies of human beings. This implies a water-tight receptacle protected against invasion by flies or domesticated animals and capable of cleanly and efficient operation, and so operated. As a necessary and indispensable adjunct to a sanitary privy, there must also be provision for the final disposal of the excreta in such a way that it shall be incapable of transmitting disease through the channels of personal contact, food, or water supply. It is also highly desirable that a sanitary privy shall be as free from odors and other objectionable features as possible and shall provide personal privacy, comfort, and convenience.

Without undertaking any description of specific makes of chemical closets, it seems highly desirable to inquire into the general merits of this system and to see to what extent they comply with the essentials of a sanitary system as outlined. The various devices are primarily water-tight receptacles so constructed that access of flies and animals is reasonably prevented, although the mechanical details of certain constructions are not such as to guarantee this result. Instances have been observed in practice where the sliding parts which form the connection to the lower receptacle, through perhaps unnecessarily rough usage have been so bent out of shape as to destroy the original function of the tightly fitting sleeve. This, however, is a matter of special design and of proper use and upkeep and need not be charged against the principles of the system.

In the secondary matters of privacy, convenience, and freedom from odors, these devices with their special provision for deodorization and for ventilation, are especially commendable. They are also

capable of cleanly operation and if so operated, they comply with the definition of a sanitary privy subject to the further requirements of a means of final disposal of the contents in a way that shall be incapable of transmitting disease. To this end chemical closets place primary reliance upon disinfection. If this be at all times satisfactory and if, in addition, the actual physical disposal of the disinfected material be made with due regard to common decency and cleanliness, the system complies satisfactorily with the requirements of a sanitary system. The essential condition, therefore, is the efficiency and sufficiency of the disinfection itself. In this connection there are certain distinct drawbacks to the system, not as it is laid down in the descriptive pamphlets, but as it would be operated under practical conditions.

Such protective factors as physical removal to a distant point are capable of ready appreciation upon the part of any person concerned, and, once appreciated, encounter no special difficulties in the way of their complete and satisfactory performance. Where the chief reliance is placed upon the action of a chemical, always a mysterious substance in the mind of the layman, there is much more likelihood of neglect through ignorance, carelessness, failure to order or receive a proper supply, or mistaken ideas of economy. The sufficiency of the system of disinfection recommended, when carried out in accordance with instructions, has been satisfactorily demonstrated in some cases with reference to certain organisms of disease. There is, however, a dearth of reliable information upon this point and in particular it must be noted that the destruction of hookworm eggs, a consideration of great importance throughout a large section of the country in which installations of this type of closet are most likely to be made, does not seem to have been satisfactorily investigated.

There is also the possibility of misuse of the principles of the chemical closet upon the part of unscrupulous manufacturers, resulting in the employment of chemical substances quite worthless for the purpose, and in the placing of such reliance upon imperfect disinfection as to result in serious consequences. It would seem to be incumbent, therefore, upon the manufacturers of such devices to make such thoroughgoing tests of the efficiency of the chemical substance to be employed, not only against the more common pathogenic bacteria, but also against the much more resistant hookworm eggs, as shall be satisfactory to State and local health authorities; and to furnish suitable guarantees of the constancy and permanence of such chemicals. In particular these tests must be made under practical working conditions, as the value of the phenol coefficient employed in the standardization of commercial disinfectants may be of minor significance in this connection.

Some criticism has been made of the suggestion of installing chemical closets in the living rooms of the home, but this is believed to be more a matter of esthetics than of health and, with proper safeguards as to ventilation, no reasonable objection can be raised against the practice upon sanitary grounds. Neither is it necessary to take into consideration questions of costs of installation and of operation, as these are matters which will be weighed in each individual case against convenience and comfort. It is obvious that the cheaper the installation which will comply with all public health and esthetic requirements the more general will be its adoption.

In brief then, everything depends upon the sufficiency of the disinfection and the means of final disposal. No system should be installed or recommended for installation in the absence of definite and satisfactory evidence that the treatment proposed will in fact destroy pathogenic bacteria and, in those sections of the country where hookworm disease is prevalent, the eggs and larvæ of hookworms. While the design and satisfactory operation of such a device is quite possible, its general adoption ought not to be recommended without giving the fullest consideration to the possibilities of mismanagement and it is believed that whatever means are adopted for final disposal, these should be so safeguarded that the almost inevitable failure at times of the chemical toilet may not result in serious danger to the health of those affected.

## STATE AND INSULAR HEALTH AUTHORITIES.

Directories of the State and insular health authorities of the United States for the years 1912, 1913, 1914, 1915, and 1916 have been published in the Public Health Reports <sup>1</sup> for the information of health officers and others interested in public-health activities.

The following directory for 1917 has been compiled from data furnished by the respective State and insular health officers.

Full-time officers are indicated by an asterisk (\*). For the purpose of this directory, a full-time officer is defined as a person "not engaged in the private practice of medicine or in any other business, but devoting all his time to official duties."

### ALABAMA.

Board of censors of the State medical association acting as a committee of public health:

S. W. Welch, M. D., chairman, Montgomery.

W. H. Sanders, M. D., Montgomery.

Glenn Andrews, M. D., Montgomery.

V. P. Gaines, M. D., Mobile.

S. G. Gay, M. D., Selma.

L. W. Johnston, M. D., Tuskegee.

C. A. Mohr, M. D., Mobile.

D. F. Talley, M. D., Birmingham.

### ALABAMA—Continued.

Board of censors State medical association—Con.

I. L. Watkins, M. D., Montgomery.

B. L. Wyman, M. D., Birmingham.

Executive health officer:

\* S. W. Welch, M. D., State health officer, Montgomery.

Registrar of vital statistics:

\* H. G. Perry, M. D., Montgomery.

State laboratory:

\* B. L. Arms, M. D., director, Montgomery.

<sup>1</sup> Reprints Nos. 83, 123, 190, 268, and 344 from the Public Health Reports.



**ALABAMA—Continued.****Sanitary engineer:**

\* J. V. Donley, *Montgomery.*

**Rural sanitation:**

\* P. P. Salter, M. D., *field director, Montgomery.*

**State prison inspector:**

\* W. W. Dismore, M. D., *Montgomery.*

*Appropriation for fiscal year ending Sept. 30, 1917, \$26,200.*

*Publication issued by health department:*

*Annual report.*

**ALASKA.****Governor and ex officio commissioner of health:**

J. F. A. Strong, *Juneau.*

*Appropriation for fiscal year ending Mar. 31, 1917, \$25,600.*

**ARIZONA.****Board of health:**

Thomas E. Campbell, *governor, president, Phoenix.*

Wiley E. Jones, *vice president, Phoenix.*

J. Bernard Nelson, M. D., *secretary, Phoenix.*

**Executive health officer:**

J. Bernard Nelson, M. D., *State superintendent of public health, Phoenix.*

*Appropriation for fiscal year ending June 30, 1917, \$4,700.*

*Publications issued by health department:*

*Quarterly bulletin.*

*Biennial report.*

**ARKANSAS.****Board of health:**

J. T. Clegg, M. D., *president, Siloam Springs.*

C. W. Garrison, M. D., *secretary, Little Rock.*

B. A. Fletcher, M. D., *Augusta.*

C. F. Crosby, M. D., *Heber Springs.*

H. R. Webster, M. D., *Texarkana.*

H. L. Montgomery, M. D., *Gravelly.*

S. A. Southall, M. D., *Loneoke.*

F. O. Mahony, M. D., *El Dorado.*

**Executive health officer:**

\* C. W. Garrison, M. D., *secretary and State health officer, Little Rock.*

**Bureau of vital statistics:**

\* Miss Nell P. Smart, *chief clerk, Little Rock.*

**Hygienic laboratory:**

\* A. C. Shipp, M. D., *director, Little Rock.*

**Chief hotel inspector:**

\* E. R. Wiles, *Little Rock.*

*Appropriations for biennial period ending Mar. 31, 1919:*

*Executive department—salaries and miscellaneous..... \$11,300*

*Vital statistics bureau—salaries and miscellaneous..... 10,680*

*Bureau of sanitation—maintenance.... 10,000*

*31,980*

**Other sources of revenue:**

*Fees for marriage licenses, 50 cents each, are deposited in the State treasury to maintain the Central Bureau of Vital Statistics.*

*License fees for hotels, restaurants, and rooming houses are deposited in the State treasury to maintain the Bureau of Sanitation.*

**CALIFORNIA.****Board of health:**

George E. Ebright, M. D., *president, San Francisco.*

Fred F. Gundrum, M. D., *vice president, Sacramento.*

Wilbur A. Sawyer, M. D., *secretary, Sacramento.*

Wm. Le Moyne Wills, M. D., *Los Angeles.*

Edward F. Glaser, M. D., *San Francisco.*

Adelaide Brown, M. D., *San Francisco.*

Robert A. Peers, M. D., *Colfax.*

**Executive health officer:**

\* Wilbur A. Sawyer, M. D., *secretary State board of health, Sacramento.*

**Attorney for board of health:**

Kemper B. Campbell, *Los Angeles.*

**Bureau of administration:**

\* L. B. Mallory, *director, Sacramento.*

**Bureau of vital statistics:**

\* George D. Leslie, *director, Sacramento.*

**Bureau of registration of nurses:**

\* Anna C. Jamme, R. N., *director, Sacramento.*

**Bureau of tuberculosis:**

\* Edith L. M. Tate, *director, Sacramento.*

**Bureau of foods and drugs:**

\* Erwin J. Lea, *director, Berkeley.*

**Bureau of communicable diseases:**

\* James G. Cumming, M. D., *director, Berkeley.*

**Bureau of sanitary engineering:**

\* Chester G. Gillespie, *director, Berkeley.*

*Appropriations for biennial period ending June 30, 1919:*

*Traveling and contingent expenses.... \$38,880*

*Tuberculosis..... 125,000*

*Pure food and drugs..... 65,000*

*Hygienic laboratory..... 55,000*

*Antirabic virus..... 2,400*

*Stenographic services..... 10,000*

*Printing..... 75,000*

*Contagious diseases..... 45,000*

*Sanitary engineering..... 47,800*

*Statutory salaries (from general appropriation)..... 55,000*

*Support of 6 district health officers, at \$3,000, expenses, etc..... 519,080*

**Other sources of revenue:**

*Fees for registration of nurses (\$10 each).*

*Licensing of cold-storage warehouses (rated according to capacity).*

*Fees for certified copies of records.*

*Licensing plumbers.*

*Fiscal year ends June 30.*

*Publications of health department:*

*Biennial report.*

*Monthly bulletin.*

**COLORADO.****Board of health:**

L. G. Crosby, M. D., *president, Denver.*

C. G. Hickey, M. D., *vice president, Denver.*

Erlo E. Kennedy, M. D., *secretary, Denver.*

A. W. Scott, *Fort Collins.*

Frank R. Coffman, M. D., *Denver.*

\* Full-time officer.

**COLORADO—Continued.****Board of health—Continued.**

Wm. H. Sharpley, M. D., Denver.  
A. C. McCain, M. D., Ault.  
Chas. A. Bundsen, M. D., Denver.  
C. O. Booth, M. D., Cheyenne Wells.

**Executive health officer:**

Erlie E. Kennedy, M. D., secretary and executive officer, Denver.

**Pure food and drug commissioner:**

\* S. R. McKelvey, M. D., Denver.

**Bacteriologist:**

W. C. Mitchell, M. D., Denver.

**Medical inspector:**

\* J. W. Morgan, M. D., Denver.

**Appropriations for fiscal year ending Nov. 30, 1917:**

Salaries.....	\$16,600
Laboratory equipment, supplies, and expenses.....	450
Bulletin.....	400
Traveling expenses.....	2,500
	<hr/>
	19,950

**CONNECTICUT.****Public health council:**

Edward K. Root, M. D.  
Lewis Sperry.  
C. E. A. Winslow, M. S.  
Walter H. Brown, M. D.  
J. Frederick Jackson, C. E.  
James A. Newlands, B. S.

**Executive health officer:**

John T. Black, M. D. commissioner of health, Hartford.

**Laboratory director:****Sanitary engineering director:****Preventable diseases director:****Vital statistics director:****Appropriations for fiscal year ending Sept. 30, 1918:**

General expenses.....	\$18,900
Laboratory.....	13,000
Antitoxin.....	6,200
Spring water investigation.....	500
Salary, commissioner.....	4,000
Special, factory wastes.....	12,500
	<hr/>
	55,100

**Other sources of revenue:**

Medical practice, registration fees.  
Spring water, license fees.

**Publications issued by health department:**

Monthly bulletin.  
Annual vital statistics report.  
Biennial report of State department of health.

**DELAWARE.****Board of health:**

Wm. P. Orr, M. D., president, Lewes.  
A. E. Frantz, M. D., secretary, Wilmington.  
J. W. Clifton, M. D., Smyrna.  
W. F. Haines, M. D., Seaford.  
J. A. Draper, M. D., Wilmington.  
C. A. Ritchie, M. D., Wilmington.  
L. S. Conwell, M. D., Camden.

**Executive health officer:**

A. E. Frantz, M. D., secretary and executive officer, Wilmington.

**Pathologist and bacteriologist:**

\*Herbert J. Watson, Newark.

**Appropriations for fiscal year ending Dec. 31, 1917:**

State board of health.....	\$2,500
Laboratory.....	4,000
Vital statistics.....	2,000
Diphtheria antitoxin.....	500
	<hr/>
	9,000

**DISTRICT OF COLUMBIA.****Executive health officer:**

Wm. C. Woodward, M. D., health officer, Washington.

**Assistant health officer:**

\*John L. Norris, M. D., Washington.

**Chief clerk and deputy health officer:**

\*Arthur G. Cole, Washington.

**Contagious-disease service:**

Wm. C. Fowler, M. D., chief, Washington.

**Bacteriologist:**

J. J. Kinyoun, M. D., Washington.

**Chemist:**

M. A. Pozen, B. S., Phar. D., Washington.

**Chief sanitary inspector:**

\*Charles R. Holman, Washington.

**Chief food inspector:**

Reid R. Ashworth, D. V. S., Washington.

**Chief medical and sanitary inspector of schools:**

\*Joseph A. Murphy, M. D., Washington.

NOTE.—All of the above-named officers of the District of Columbia Health Department are full time to the extent that they perform seven hours or more a day duty, the full measure of service fixed by law.

**Appropriations for fiscal year ending June 30, 1917:**

Salaries.....	\$68,040
Prevention of communicable diseases..	30,000
Disinfecting service.....	6,000
Isolation wards at hospitals.....	12,000
Milk inspection and regulation.....	7,000
Miscellaneous.....	12,200
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	135,240

**Publications issued by health department:**

Weekly report of health officer.  
Annual report of health officer.  
Monthly statement of average grade of milk sold.

\*Full-time officer.

**FLORIDA.****Board of health:**

Charles T. Frecker, president, Tampa.  
Ed. M. Ernest, Palatka.  
J. E. Graves, DeFuniak Springs.

**Executive health officer:**

W. H. Cox, M. D., State health officer, Tampa.

**Scientific secretary:**

Hiram Byrd, B. S., M. D., Jacksonville.

**Bureau of vital statistics:**

F. L. Watkins, M. D., statistician, Jacksonville.

**Bureau of sanitary engineering:**

George W. Simons, jr., chief, Jacksonville.

**Bureau of child hygiene:****Bureau of communicable diseases:****Appropriation for health department:**

One-half mill tax levied upon the assessable property of the State.

Fiscal year ends Dec. 31.

**Publication issued by health department:**

Monthly bulletin.

**GEORGIA.****Board of health:**

Howard J. Williams, M. D., president, Macon.  
W. H. Doughty, jr., M. D., vice president, Augusta.

H. F. Harris, M. D., secretary, Atlanta.

W. W. Owens, M. D., Savannah.

A. D. Little, M. D., Thomasville.

B. C. Teasley, M. D., Hartwell.

A. L. Crittenden, M. D., Shellman.

James H. McDuffie, M. D., Columbus.

Robert F. Maddox, Atlanta.

W. L. Funkhouser, M. D., Rome.

Giles Hathcock, M. D., Lula.

J. L. Walker, M. D., Waycross.

M. S. Brown, M. D., Fort Valley.

M. L. Brittain, State superintendent of schools, Atlanta.

Peter F. Bahnsen, State veterinarian, Atlanta

**Executive health officer:**

H. F. Harris, M. D., secretary and director of laboratories, Atlanta.

**Laboratories:**

\*Katharine R. Collins, M. D., assistant director; director of antitoxin department, Atlanta.

**Bacteriological department:**

\*L. T. Pattillo, M. D., director, Atlanta.

**Pasteur department:**

\*C. B. Greer, M. D., director, Atlanta.

**Water analysis department:**

\*Ray C. Werner, B. S., director, Atlanta.

Appropriation for fiscal year ending Dec. 31, 1917, \$30,500.

**Publication issued by health department:**

Quarterly bulletin.

**HAWAII.****Board of health:**

J. S. B. Pratt, M. D., president, Honolulu.  
I. M. Stainback, attorney general, Honolulu.  
W. C. Hobdy, M. D., Honolulu.  
C. J. Campbell, Honolulu.

**HAWAII—Continued.****Board of health—Continued.**

John Markham, Honolulu.  
G. J. Waller, Honolulu.  
George Denison, Honolulu.

**Executive health officer:**

\*J. S. B. Pratt, president, Honolulu.

**Bacteriologist:**

\*A. K. Hanchett, M. D., Honolulu.

**Tuberculosis bureau:**

\*L. L. Patterson, M. D., director, Honolulu.

**Food commissioner and analyst:**

\*A. W. Hansen, Honolulu.

**Oahu Insane Asylum:**

\*W. A. Schwalle, M. D., superintendent, Honolulu.

**Leper settlement:**

\*J. D. McVeigh, superintendent, Kalaupapa, Molokai.

**Appropriations for fiscal year ending June 30, 1918:**

General expenses.....	\$21,100
Sanitation.....	44,580
Pure food.....	7,500
Bacteriological bureau.....	2,820
Quarantine and medical service.....	57,200
Rat campaign.....	10,000
Mosquito campaign.....	13,750
Tuberculosis.....	82,500
Care of lepers and their children.....	229,810
Care of insane.....	81,040
	<hr/> 550,330

**Publication issued by health department:**

Annual report of president.

**IDAHO.****Board of health:**

W. R. Hamilton, M. D., president, Weiser.  
Edward T. Biwer, M. D., secretary, Boise.

T. A. Walters, attorney general, Boise.

J. H. Smith, State engineer, Boise.

B. O. Clark, M. D., Emmett.

**Executive health officer:**

\*Edward T. Biwer, M. D., secretary and registrar, Boise.

**Dairy, food, and sanitary inspector:**

J. K. White, Boise.

**Bacteriologist:**

Emily L. Moshage, M. D., Boise.

**Chemist:**

H. Louis Jackson, Boise.

**Appropriations for biennial period ending Jan. 1, 1919:**

State board of health.....	\$9,195
Bacteriological laboratory.....	7,460
Chemical laboratory.....	5,800
Vital statistics.....	1,200
Dairy, food, and sanitary inspection....	19,340
	<hr/> 42,995

Fiscal year ends January 1.

**ILLINOIS.****Board of health:**

John A. Robison, M. D., president, Chicago.  
C. St. Clair Drake, M. D., secretary, Springfield.  
T. B. Lewis, M. D., Hammond.

\*Full-time officer.

## ILLINOIS—Continued.

## Board of health—Continued.

T. O. Freeman, M. D., Mattoon.  
R. D. Luster, M. D., Granite City.  
E. S. Spindel, M. D., Springfield.

## Executive health officer:

\*C. St. Clair Drake, M. D., secretary and executive officer, Springfield.

## Registrar of vital statistics:

George Thomas Palmer, M. D., Springfield.

## Bacteriologist:

George F. Sorgatz, M. D., Springfield.

## Epidemiologist:

E. S. Godfrey, M. D., Springfield.

## Chief dairy inspector:

Paul Skoog, Springfield.

## Chief lodging-house inspector:

George Delvigne, Chicago.

## Sanitary engineering bureau:

Paul Hansen, chief engineer, Springfield.

## Appropriations for fiscal year ending June 30, 1917:

State board of health.....	\$95,954
Vital statistics.....	5,500
Laboratory and extensions.....	8,215
Dairy inspection.....	5,100
Lodging-house inspection.....	11,425
Sanitary engineering.....	10,850
Epidemiologist.....	17,600
	<hr/> 154,644

## Publication issued by health department:

Monthly bulletin.

## INDIANA.

## Board of health:

Chas. B. Kern, M. D., president, Lafayette.  
Hugh A. Cowing, M. D., vice president, Muncie.

J. N. Hurty, M. D., secretary, Indianapolis.

J. A. Hewitt, M. D., Terre Haute.

James S. Boyers, M. D., Decatur.

## Executive health officer:

\*J. N. Hurty, M. D., State health commissioner, Indianapolis.

## Division of statistics:

\*Charles A. Carter, M. D., superintendent, Indianapolis.

## Division of bacteriology and pathology:

\*Will Shimer, M. D., superintendent, Indianapolis.

## Pasteur laboratory:

\*R. J. Anderson, M. D., superintendent, Indianapolis.

## Division of food and drugs:

\*H. E. Barnard, Ph. D., State food and drug commissioner, Indianapolis.

## Water and sewage laboratory:

\*J. C. Diggs, superintendent, Indianapolis.

## Division of child and school hygiene:

\*Wm. F. King, M. D., superintendent, Indianapolis.

## Division of epidemiology:

\*H. H. Mitchell, M. D., superintendent, Indianapolis.

## INDIANA—Continued.

## Appropriations for fiscal year ending Sept. 30, 1917:

Salaries (specific).....	\$4,500.00
State board of health office.....	30,000.00
Laboratory of hygiene.....	10,000.00
Laboratory pure food and drugs.....	20,000.00
Water laboratory.....	5,000.00
Weights and measures.....	10,000.00
Cold storage fund.....	430.00
Hydrophobia fund.....	8,084.76
Special for baby book.....	5,000.00
	<hr/> 93,014.76

## Publication issued by health department:

Monthly bulletin.

## IOWA.

## Board of health:

Walter L. Bierring, M. D., president, Des Moines.

Henry A. Dittmer, M. D., vice president, Manchester.

Guilford H. Sumner, M. D., secretary, Des Moines.

Lafayette Higgins, sanitary engineer, Des Moines.

George F. Severs, M. D., Centerville.

Clinton E. Harris, M. D., Grinnell.

W. L. Harding, governor, Des Moines.

W. S. Allen, secretary of state, Des Moines.

F. S. Shaw, State auditor, Des Moines.

W. C. Brown, State treasurer, Des Moines.

A. H. Davison, secretary appointing board and executive council, Des Moines.

## Executive health officer:

\*Guilford H. Sumner, M. D., secretary-executive officer and State health commissioner, Des Moines.

## Laboratories:

Henry Albert, M. D., director, Iowa City.

Mark F. Boyd, M. D., epidemiologist, Iowa City.

## Appropriations for fiscal year ending June 30, 1917:

State board of health work.....	\$5,000
Bacteriological laboratory.....	6,000
Antitoxin department.....	2,000
Vital statistics.....	2,000
	<hr/> 15,000

The above does not include special appropriation for clerical assistance.

## Publications issued by health department:

Biennial report.

Quarterly bulletin.

## KANSAS.

## Board of health:

W. M. Earnest, M. D., president, Washington.

J. T. Axtell, M. D., vice president, Newton.

M. O. Locke, attorney, Topeka.

S. J. Crumbine, M. D., secretary, Topeka.

\*Full-time officer.

**KANSAS—Continued.****Board of health—Continued.**

C. H. Ewing, M. D., Larned.  
H. L. Aldrich, M. D., Caney.  
O. C. Baird, M. D., Chanute.  
Clay E. Coburn, M. D., Kansas City.  
C. H. Lerrigo, M. D., Topeka.  
Jessie T. Orr, M. D., Olathe.  
O. D. Walker, M. D., Salina.

**Executive health officer:**

S. J. Crumline, M. D., secretary and executive officer, Topeka.

**Division of vital statistics:**

\*W. J. V. Deacon, M. D., State registrar, Topeka.

**Division of communicable diseases and sanitation:**

\*J. J. Sippy, M. D., epidemiologist, Topeka.

**Division of foods and drugs:**

L. A. Congdon, assistant chief food and drug inspector, Topeka.

**Division of child hygiene:**

\*Lydia A. DeVilbiss, M. D., chief, Topeka.

**Division of water and sewage:**

Prof. C. A. Haskins, chief, Lawrence.

**Division of public health education:**

S. J. Crumline, M. D., director, Topeka.

**Water and sewage laboratories at Kansas University:**

Prof. C. C. Young, director, Lawrence.

**Food laboratory at Kansas University:**

Prof. E. H. S. Bailey, director of food analyses, Lawrence.

**Drug laboratory at Kansas University:**

Prof. L. E. Sayre, director of drug analyses, Lawrence.

**Food laboratory at Kansas Agricultural College:**

Prof. J. T. Willard, director of food analyses, Manhattan.

**Bacteriologist:**

S. E. Greenfield, M. D., Topeka.

**Appropriations for fiscal year ending June 30, 1918:**

Salaries.....	\$15,700
Miscellaneous.....	9,700
Water and sewage laboratory.....	5,000
Free distribution of antitoxins, etc.....	2,500
Suppression of communicable diseases.....	5,000
Public health exhibit car.....	2,000
Laboratory of hygiene.....	1,500
Division of child hygiene.....	7,500
	<hr/> 48,900

**Other sources of revenue:**

Marriage fees.

Water and ice analyses fees.

Food and drug laboratories at Kansas University maintained by university maintenance fund, and food laboratory at Kansas Agricultural College maintained by agricultural college maintenance fund.

**Publications issued by health department:**

Monthly bulletin.

Biennial report.

**KENTUCKY.****Board of health:**

J. G. South, M. D., president, Frankfort.

A. T. McCormack, M. D., secretary, Bowling Green.

W. W. Richmond, M. D., Clinton.

I. A. Shirley, M. D., Winchester.

C. A. Fish, M. D., Frankfort.

George T. Fuller, M. D., Mayfield.

H. H. Carter, M. D., Shelbyville.

**Executive health officer:**

\*A. T. McCormack, M. D., secretary and executive officer, Bowling Green.

**Chief sanitary inspector:**

\*J. N. McCormack, M. D., Bowling Green.

**Bacteriologist:**

\*L. H. South, M. D., Bowling Green.

**Sanitary engineer:**

\*D. P. Curry, M. D., Bowling Green.

**Registrar of vital statistics:**

\*P. E. Blackerby, M. D., Bowling Green.

Appropriation for fiscal year ending Dec. 31, 1917, \$30,000.

Fiscal year ends June 30.

Publication issued by health department:

Monthly bulletin.

**LOUISIANA.****Board of health:**

Oscar Dowling, M. D., president, New Orleans.

J. M. Mosely, M. D., vice president, Arcadia.

M. W. Swords, M. D., secretary, New Orleans.

T. T. Tarlton, M. D., Grand Coteau.

T. A. Roy, M. D., Mansura.

J. T. Abshire, M. D., Leroy.

B. A. Ledbetter, M. D., New Orleans.

L. C. Chamberlain, M. D., New Orleans.

**Executive health officer:**

\*Oscar Dowling, M. D., president, New Orleans.

**Medical inspector:**

H. B. White, M. D., Gueydan.

**Bacteriologist:**

W. H. Seemann, M. D., New Orleans.

**Registrar:**

John H. Ellis, M. D., New Orleans.

**Sanitary engineer:**

John H. O'Neill, New Orleans.

**Child hygiene:**

Agnes Morris, New Orleans.

**Analyst:**

C. L. Clay, New Orleans.

**Chemist:**

J. Roy Keeny, New Orleans.

Appropriation for fiscal year ending June 30,

1918..... \$30,000

**Other source of revenue:**

Fees from oil inspections, \$63,654.34 for year ended Dec. 31, 1916.

Publications issued by health department:

Monthly bulletin.

Quarterly bulletin.

Annual almanac.

Biennial report.

Fiscal year ends December 31.

\*Full-time officer.

**MAINE.****Board of health:**

G. M. Woodcock, M. D., president, Bangor.  
 A. G. Young, M. D., secretary, Augusta.  
 Prof. Marshall P. Cram, Brunswick.  
 W. L. Haskell, M. D., Lewistown.  
 Eugene W. Gass, Auburn.  
 Charles A. Creighton, Thomaston.  
 Paul S. Hill, M. D., Biddeford.

**Executive health officer:**

\* A. G. Young, M. D., secretary and executive health officer, Augusta.

**Laboratory of hygiene:**

\* Prof. Henry D. Evans, director, Augusta.

**State registrar:**

\* A. G. Young, M. D., Augusta.

**Appropriations for fiscal year ending Dec. 31, 1916:**

Contingent expenses.....	\$7,000
Vital statistics.....	3,000
Laboratory of hygiene.....	6,500
Printing and binding.....	2,500
Epidemic or emergency fund.....	2,000
	<hr/> 21,000

**Publications issued by health department:**

Bimonthly bulletin.  
 Annual registration report.  
 Biennial report.

**MARYLAND.****Board of health:**

Wm. H. Welch, M. D., president, Baltimore.  
 Albert C. Ritchie, attorney general, Baltimore.  
 John S. Fulton, M. D., secretary, Baltimore.  
 Nathan R. Gorter, M. D., Baltimore.  
 Wm. W. Ford, M. D., Baltimore.  
 John D. Blake, M. D., Baltimore.  
 Tolley A. Biays, Baltimore.

**Executive health officer:**

\*John S. Fulton, M. D., State health officer, Baltimore.

**Bureau of communicable diseases:**

C. Hampson Jones, M. D., chief, Baltimore.

**Bureau of vital statistics:**

Frederic V. Beitler, M. D., chief, Baltimore.

**Food and drug commissioner:**

Charles Caspari, jr., M. D., Baltimore.

**Bureau of bacteriology:**

Wm. Royal Stokes, M. D., chief, Baltimore.

**Bureau of sanitary engineering:**

Robert B. Morse, C. E., chief, Baltimore.

**Bureau of chemistry:**

\*Wyatt W. Randall, M. D., chief, Baltimore.

Appropriation for fiscal year ending Sept. 30, 1917, \$123,500.

**Publication issued by health department:**

Annual report.

**MASSACHUSETTS.****Public health council:**

Allan J. McLaughlin, M. D., chairman, Boston.  
 David L. Edsall, M. D., Milton.  
 W. J. Gallivan, M. D., South Boston.  
 J. E. Lamoureux, M. D., Lowell.  
 Prof. W. T. Sedgwick, Cambridge.  
 Prof. G. C. Whipple, Cambridge.  
 John T. Wheelwright, Boston.

**MASSACHUSETTS—Continued.****Executive health officer:**

\*Allan J. McLaughlin, M. D., commissioner of health, Boston.

**Division of sanitary engineering:**

\*X. H. Goodnough, director and chief engineer, Boston.

**Division of water and sewage laboratories:**

\*H. W. Clark, director and chemist, Boston.

**Division of communicable diseases:**

\*E. R. Kelley, M. D., director, Boston.

**Division of hygiene:**

\*Lyman A. Jones, M. D., director, Boston.

**Division of food and drugs:**

\*Hermann C. Lythgoe, director and analyst, Boston.

**Division of biologic laboratories:**

Milton J. Rosenau, M. D., director and pathologist, Boston.

**Antitoxin and vaccine laboratory:**

\*Rudolf Kohn, M. D., assistant director, Boston.

**Wassermann laboratory:**

W. A. Hinton, M. D., assistant director, Boston.

**Epidemiologist:**

\*S. H. Osborn, Boston.

**Bacteriologist:**

\*Edith A. Beckler, Boston.

**Appropriations for fiscal year ended Nov. 30, 1916:**

Salaries (specific).....	\$14,500
General expenses.....	18,240
Annual report.....	4,000
Division of hygiene.....	14,300
Epidemiologist, salary and expenses...	3,000
Inspectors of health.....	38,800
Diagnostic laboratory.....	5,730
Antitoxin and vaccine.....	29,000
Ophthalmia neonatorum.....	1,000
Food and drug inspection.....	17,500
Slaughtering inspection and cold storage.....	12,000
Water supply and sewage disposal.....	56,800
State examiners of plumbers.....	5,200
Nonpulmonary tuberculosis.....	500
Syphilis (manufacture or purchase of dioxydiaminoarsenobenzol).....	10,000
Printing special milk report.....	700
Causation of infantile paralysis.....	5,000
Aftercare of infantile paralysis.....	5,000
	<hr/> 241,270

**Publications issued by health department:**

Monthly bulletin.  
 Annual report.

**MICHIGAN.****Board of health:**

Victor C. Vaughan, M. D., president, Ann Arbor.  
 Edward T. Abrams, M. D., vice president, Hancock.  
 R. M. Olin, M. D., secretary, Lansing.  
 Andrew P. Biddle, M. D., Detroit.  
 Wm. D. Farley, Battle Creek.  
 Guy L. Kiefer, M. D., Detroit.  
 Wm. F. English, M. D., Saginaw.

\* Full-time officer.

**MICHIGAN—Continued.****Executive health officer:**

\* R. M. Olin, M. D., secretary and executive officer, Lansing.

**Bacteriologist:**

\* A. A. Spoor, M. D., Lansing.

**Bacteriologist:**

\* E. R. Chambers, B. S., Houghton.

**Sanitary engineer:**

\* E. D. Rich, C. E., Lansing.

**Appropriations for fiscal year ended June 30, 1916:**

General appropriation.....	\$15,000.00
Clerical hire.....	12,000.00
Laboratories.....	11,000.00
Tuberculosis survey.....	50,000.00

88,000.00

From general fund of State for salaries and expenses..... 15,682.28

103,682.28

**Publications issued by health department:**

Monthly bulletin.

Annual report.

**MINNESOTA.****Board of health:**

W. A. Jones, M. D., president, Minneapolis.

Christopher Graham, M. D., vice president, Rochester.

Egil Boeckmann, M. D., St. Paul.

Chas. L. Scofield, M. D., Benson.

Werner Hemsted, M. D., Brainerd.

F. N. Hunt, M. D., Fairmont.

D. N. Jones, M. D., Minneapolis.

C. W. More, M. D., Eveleth.

L. P. Wolff, St. Paul.

**Executive health officer:**

\* H. M. Bracken, M. D., secretary and executive officer, St. Paul.

**Division of records:**

\* O. C. Pierson, director, St. Paul.

**Division of preventable diseases:**

\* A. J. Chesley, M. D., director, Minneapolis.

**Pasteur institute:**

\* O. C. McDaniel, M. D., chief; assistant director of division of preventable diseases, Minneapolis.

**Division of sanitation:**

\* H. A. Whittaker, director, Minneapolis.

**Division of vital statistics:**

Mrs. Gerda C. Pierson, director, St. Paul.

**Appropriations for fiscal year ending July 31, 1918:**

General fund.....	\$17,772
Vital statistics.....	10,000
Communicable diseases.....	20,000
Laboratories.....	30,000
Pasteur institute.....	7,000
Sanitary engineering.....	7,000
Free antitoxin.....	7,000
Prevention of blindness.....	1,000
Infectious-disease carriers.....	500
Infantile paralysis.....	25,000

125,272

\* Full-time officer.

**MINNESOTA—Continued.****Other source of revenue:**

Aid from county and city for branch laboratory at Duluth, \$1,200.

Aid from physicians for branch laboratory at Mankato.

**Publications issued by health department:**

Monthly bulletin on deaths.

Biennial report.

**MISSISSIPPI.****Board of health:**

C. D. Mitchell, M. D., president, Pontotoc.

T. F. Elkin, M. D., Tupelo.

L. L. McDougal, M. D., Booneville.

J. H. McNeil, M. D., Olive Branch.

S. E. Eason, M. D., New Albany.

T. W. Reagan, M. D., Union.

W. W. Hall, M. D., Gunnison.

S. W. Glass, M. D., Lyon.

T. H. Seay, M. D., Laurel.

H. F. Garrison, M. D., Seminary.

B. L. Crawford, M. D., Tylertown.

J. H. Johnson, M. D., Brookhaven.

W. H. Watson, M. D., Brandon.

**Executive health officer:**

\* W. S. Leathers, M. D., secretary and executive officer, Jackson.

**Sanitary inspector:**

\* Willis Walley, M. D., Jackson.

**Deputy State registrar and assistant secretary:**

\* R. W. Hall, M. D., Jackson.

**Hygienic laboratory:**

C. R. Stingily, M. D., director, Jackson.

**Appropriations for fiscal year ending Dec. 31, 1917:**

Miscellaneous.....	\$12,000
Vital statistics.....	6,000
Municipal sanitation.....	3,200
Rural sanitation.....	5,000
Hygienic laboratory.....	6,000
Prevention of blindness in the new born.....	300
	32,500

**Other sources of revenue:**

From international health board for eradication of malaria, 1917..... 41,000

From international health board for rural sanitation work, 1917..... 6,660

**Publications issued by health department:**

Monthly bulletin.

Biennial report.

**MISSOURI.****Board of health:**

F. H. Matthews, M. D., president, Liberty.

T. H. Wilcoxon, M. D., vice president, Bowling Green.

George H. Jones, M. D., secretary, Jefferson City.

M. R. Hughes, M. D., St. Louis.

T. A. Son, M. D., Bonne Terre.

G. O. Cuppidge, M. D., Moberly.

W. J. Ferguson, M. D., Sedalia.

**Executive health officer:**

\* George H. Jones, M. D., secretary, Jefferson City.

**MISSOURI—Continued.****Bacteriologist:**

\* George H. Jones, M. D., Jefferson City.

**Statistician:**

C. J. Kaiser, Jefferson City.

**Appropriations for biennial period ending Dec. 31, 1918:**

Board of health fund .....	\$15,000
Bureau of vital statistics, salaries .....	21,600
Printing .....	7,000
Postage .....	3,500
Contagious diseases .....	2,000
Office expenses .....	1,950
Laboratory expenses .....	1,500
	<hr/> 52,550

**Publications issued by health department:**

Quarterly bulletin.

Annual report.

**MONTANA.****Board of health:**

D. J. Donohue, M. D., president, Butte.

W. F. Cogswell, M. D., secretary, Helena.

S. V. Stewart, governor, Helena.

S. C. Ford, attorney general, Helena.

W. J. Butler, State veterinarian, Helena.

E. F. Maginn, M. D., Butte.

S. A. Cooney, M. D., Helena.

**Executive health officer:**

\* W. F. Cogswell, M. D., secretary and executive officer, Helena.

**Child-welfare division:**

Margaret Hughes, director, Helena.

**Water and sewage laboratory and food and drug laboratory:**

W. M. Cobligh, director, Bozeman.

**Food and drug division:**

H. M. Shea, director, Helena.

**Inspector water plants:**

F. J. O'Donnell, Helena.

**Bacteriological laboratory:****Appropriation for health department:**

Salaries (specific) .....	\$6,600
Board of health expenses .....	4,000
Bacteriology .....	5,000
Infantile-paralysis work .....	4,000
Water analysis and inspection of water plants .....	4,000
Food and water laboratory .....	5,000
Enforcing food and drug law .....	6,000
Board of entomology (spotted-fever work) .....	5,000
	<hr/> 39,600

**Other source of revenue:**

Fees for embalmers' licenses.

Fiscal year ends February 28.

**Publications issued by health department:**

Monthly bulletin.

Biennial report.

**NEBRASKA.****Board of health:**

Keith Neville, governor, Lincoln.

Willis E. Reed, attorney general, Lincoln.

**NEBRASKA—Continued.****Board of health—Continued.**

W. H. Clemmons, superintendent of public instruction, Lincoln.

**Board of secretaries:**

C. T. Burchard, M. D., president, Falls City.

H. B. Cummins, M. D., vice president, Seward.

L. Stark, M. D., treasurer, Hartington.

E. A. Carr, M. D., secretary, Lincoln.

**Executive health officer:**

\* James D. Case, M. D., State health inspector, Lincoln.

**Pathologist and bacteriologist:**

\* Wm. F. Wild, M. D., Lincoln.

**Appropriations for biennial period ended Mar. 31, 1917:**

Salaries .....	\$11,760
Office expenses .....	5,500
Traveling expenses of inspector .....	500
Laboratory expenses .....	2,000
	<hr/> 19,760

**Other source of revenue:**

Certified copies of births and deaths, 50 cents each.

**Publication issued by health department:**

Quarterly bulletin.

**NEVADA.****Board of health:**

W. H. Hood, M. D., president, Reno.

S. L. Lee, M. D., secretary, Carson City.

R. H. Mullin, M. D., Reno.

**Executive health officer:**

\* S. L. Lee, M. D., secretary, Carson City.

**State hygienic laboratory at State university:**

R. H. Mullin, M. D., director, Reno.

**Appropriation for fiscal year ending Dec. 31, 1917, \$3,250.****Publication issued by health department:**

Biennial report.

**NEW HAMPSHIRE.****Board of health:**

Robert Fletcher, C. E., president, Hanover.

Irving A. Watson, M. D., secretary, Concord.

Henry W. Keyes, governor, Haverhill.

James P. Tuttle, attorney general, Manchester.

George C. Wilkins, M. D., Manchester.

D. E. Sullivan, M. D., Concord.

**Executive health officer:**

\* Irving A. Watson, M. D., secretary, Concord.

**Laboratory of hygiene:**

\* Irving A. Watson, M. D., director, Concord.

**Appropriations for fiscal year ending Aug. 31, 1918:**

State board of health .....	\$15,050
Laboratory of hygiene .....	9,300
Vital statistics .....	1,800
State sanatorium .....	34,000
Board of commissioners of lunacy .....	800
	<hr/> 60,950

**Publications issued by health department:**

Quarterly bulletin.

Biennial report.

\* Full-time officer.



**NEW JERSEY.****Board of health:**

Wm. H. Chew, president, Salem.  
 E. A. Ayers, M. D., vice president, Branchville.  
 Frederick T. Crane, C. E., Orange.  
 Oliver Kelly, Oak Tree.  
 J. Oliver McDonald, M. D., Trenton.  
 Clyde Potts, C. E., Morristown.  
 Henry Spence, M. D., Jersey City.  
 H. E. Winter, M. D., Plainfield.

**Executive health officer:**

\*Jacob C. Price, M. D., director of health  
 Trenton.

**Laboratory of hygiene:**

\*R. B. Fitz-Randolph, chief, Trenton.

**Division of general administration:**

\*Charles J. Merrell, chief, Trenton.

**Bureau of food and drugs:**

\*Wm. G. Tice, chief, Trenton.

**Division of milk control:**

\*George W. McGuire, chief, Trenton.

**Bureau of medical supervision:**

\*A. C. Hunt, M. D., chief, Trenton.

**Bureau of education and publicity:**

\*A. C. Hunt, M. D., chief pro tem, Trenton.

**Division of child hygiene:**

\*Bertha F. Johnson, M. D., chief, Trenton.

**Bureau of local health administration:**

\*David C. Bowen, chief, Trenton.

**Bureau of engineering:**

\*Chester G. Wigley, chief, Trenton.

**Bureau of vital statistics:**

\*David S. South, chief, Trenton.

Appropriation for fiscal year ended Oct. 31, 1916,  
 \$128,000.

**Publications issued by health department:**

Monthly bulletin.

Annual report.

**NEW MEXICO.****Board of health:**

J. A. Massie, M. D., president, Santa Fe.  
 Joseph S. Cipes, M. D., vice president, Albuquerque.

R. K. McClanahan, M. D., secretary and treasurer, East Las Vegas.

H. A. Ingalls, M. D., Roswell.

M. D. Taylor, Aztec.

H. Austin Stroup, M. D., Artesia.

C. H. Ferguson, M. D., Tucumcari.

**Executive health officer:**

R. K. McClanahan, M. D., secretary and treasurer, East Las Vegas.

Fiscal year ends December 31.

**NEW YORK.****Public health council:**

Hermann M. Biggs, chairman, Albany.  
 Joseph A. Warren, secretary, New York City.  
 Homer Folks, New York City.  
 Simon Flexner, M. D., New York City.  
 Prof. Henry N. Ogden, Ithaca.  
 T. Mitchell Prudden, M. D., New York City.  
 Wilhelm Gaertner, M. D., Buffalo.  
 Mrs. Ella L. Blair, Port Chester.

**NEW YORK—Continued.****Executive health officer:**

Hermann M. Biggs, M. D., commissioner of health, Albany.

**Deputy commissioner of health:**

\*Matthias Nicoll, M. D., Albany.

**Secretary:**

\*John A. Smith, M. D., Albany.

**Executive clerk:**

\*Fenimore D. Beagle, Albany.

**Division of sanitary engineering:**

\*Theodore Horton, director, Albany.

**Division of vital statistics:**

\*Otto R. Eichel, M. D., director, Albany.

**Division of child hygiene:**

H. L. K. Shaw, M. D., director, Albany.

**Division of communicable diseases:**

\*Fred M. Meader, M. D., director, Albany.

**Division of laboratories and research:**

\*Augustus B. Wadsworth, M. D., director, Albany.

**Appropriations for fiscal year ending June 30, 1917:**

Personal services .....	\$344,160
Fuel, light, and water .....	3,000
Printing .....	43,300
Equipment .....	18,000
Supplies .....	22,200
Traveling expenses .....	47,700
Communication .....	15,200
General plant .....	2,000
Rent, branch offices .....	2,480
	<hr/> 498,040

**Other source of revenue:**

Fees from cold-storage licenses, fines, etc., and from certified transcripts of birth, death, and marriage certificates, approximately \$2,000 a year.

**Publications issued by health department:**

Monthly health news.

Fortnightly official bulletin.

**NORTH CAROLINA.****Board of health:**

J. Howell Way, M. D., president, Waynesville.

Richard H. Lewis, M. D., Raleigh.

J. L. Ludlow, C. E., Winston-Salem.

W. O. Spencer, M. D., Winston-Salem.

Thomas E. Anderson, M. D., Statesville.

Charles O'H. Laughinghouse, M. D., Greenville.

Edward J. Wood, M. D., Wilmington.

F. R. Harris, M. D., Henderson.

Cyrus Thompson, M. D., Jacksonville.

**Executive health officer:**

\*W. S. Rankin, M. D., secretary and treasurer, Raleigh.

**Bureau of rural sanitation:**

\*G. M. Cooper, M. D., chief, Raleigh.

**Deputy State registrar:**

\*J. R. Gordon, M. D., Raleigh.

**Bureau of engineering and education:**

\*W. H. Booker, C. E., chief, Raleigh.

**Laboratory of hygiene:**

\*C. A. Shore, M. D., director, Raleigh.

\* Full-time officer.

**NORTH CAROLINA—Continued.**

## State tuberculosis sanatorium:

\* L. B. McBrayer, M. D., superintendent, Sanatorium.

## Life extension work:

\* A. J. Ellington, M. D., director, Raleigh.

## Appropriations for fiscal year ending Nov. 30, 1917:

State board of health.....	\$37,500
Vital statistics.....	10,000
Laboratory of hygiene.....	12,500
Tuberculosis sanatorium.....	30,000
School inspection.....	10,000
Rural sanitation.....	15,000
Control of diseases.....	4,000
Prevention of blindness.....	3,000
	<hr/> 122,000

## Other sources of revenue:

Counties, for medical inspection of schools and typhoid vaccination, 1916.	\$5,170
Wilson County, soil pollution work, 1917.	3,600
International health commission, 1917..	3,600

## Publications issued by health department:

Monthly bulletin.  
Biennial report.

**NORTH DAKOTA.**

## Board of health:

Wm. Langer, attorney general, president, Bismarck.

A. M. Call, M. D., vice president, Rugby.

C. J. McGurrien, M. D., secretary, Devils Lake.

## Executive health officer:

C. J. McGurrien, M. D., secretary, Devils Lake:

## Appropriations for fiscal year ending June 30, 1917.

Salaries (specific).....	\$1,800
Miscellaneous.....	500
	<hr/> 2,300

## Publications issued by health department:

Quarterly bulletin.  
Biennial report.

**OHIO.**

## Board of health:

H. T. Sutton, M. D., vice president, Zanesville.

Joseph McGhee, attorney general, Columbus.

Wm. T. Miller, M. D., Cleveland.

Homer C. Brown, M. D., Columbus.

Oscar Hasencamp, M. D., Toledo.

J. Morton Howell, M. D., Dayton.

W. W. Ryall, M. D., Youngstown.

McKendree Smith, M. D., Grandview Heights, R. D., Columbus.

## Executive health officer:

\* James E. Bauman, secretary and executive officer, Columbus.

## Chief engineer:

\* W. H. Dittoe, Columbus.

## Division of laboratories:

\* L. H. Van Buskirk, director, Columbus.

## Division of public health, education, and tuberculosis:

\* J. R. McDowell, M. D., director, Columbus.

## Division of communicable diseases:

\* F. G. Boudreau, M. D., director, Columbus.

**OHIO—Continued.**

## Division of industrial hygiene:

\* R. P. Albaugh, M. D., director, Columbus.

## Division of child hygiene:

\* F. M. Hollingshead, M. D., director, Columbus.

## State plumbing inspector:

\* W. C. Groeniger, Columbus.

## Appropriations for fiscal year ending June 30, 1918:

Personal service.....	\$91,230
Maintenance.....	36,775
	<hr/> 128,005

## Publications issued by health department:

Monthly bulletin.  
Annual report.

**OKLAHOMA.**

## Executive health officer:

J. W. Duke, M. D., State commissioner of health, Guthrie.

\* C. J. Kendle, assistant commissioner of health.

## Chemist:

\* R. E. Andrew, Guthrie.

## Bacteriologist:

\* A. E. Oldham, Guthrie.

## Appropriations for fiscal year ending June 30, 1918:

Salaries.....	\$16,120
Biological products.....	7,500
Contingent expenses.....	5,000
Printing.....	2,000
Pure food and drug division.....	20,000
Sanitary inspection.....	2,500
Laboratory.....	5,000
	<hr/> 58,120

## Publication issued by health department:

Annual report.

**OREGON.**

## Board of health:

A. C. Seely, M. D., president, Roseburg.

M. B. Marcollus, M. D., vice president, Portland.

David N. Roberg, M. D., secretary, Portland.

Andrew C. Smith, M. D., Portland.

H. E. Clay, M. D., Salem.

C. T. Bacon, M. D., La Grande.

R. J. Marsh, M. D., Portland.

## Executive health officer:

\* David N. Roberg, M. D., secretary and State health officer, Portland.

## Registrar of vital statistics:

\* David N. Roberg, M. D., Portland.

## Acting State bacteriologist:

Miss Emma Howe, Portland.

## Appropriation for fiscal year ending Dec. 31, 1917, \$12,500.

## Publications issued by health department:

Annual report.  
Biennial report.

**PENNSYLVANIA.**

## Advisory board:

Adolph Koenig, M. D., Pittsburgh.

Lee Masterton, C. E., Johnstown.

\* Full-time officer.

**PENNSYLVANIA—Continued.****Advisory board—Continued.**

Charles B. Penrose, M. D., Philadelphia.  
 Daniel P. Gerberich, M. D., Lebanon.  
 Clarence J. Marshall, V. M. D., Harrisburg.  
 Edgar M. Green, M. D., Easton.

**Executive health officer:**

\*Samuel G. Dixon, M. D., LL. D., Sc. D., commissioner of health, Harrisburg.

**Assistant to commissioner:**

\*Thomas W. Jackson, M. D., Harrisburg.

**Secretary:**

\*J. O. Hauser, Harrisburg.

**Division of medical inspection:**

\*B. Franklin Royer, M. D., chief medical inspector, Harrisburg.

**Laboratories and experimental station:**

\*J. B. Rucker, jr., M. D., chief of the laboratories, Philadelphia.

**Division of sanatoria:**

\*F. C. Johnson, M. D., medical director, Sanatorium for Tuberculosis No. 1, Mont Alto.  
 \*W. G. Turnbull, M. D., medical director, Sanatorium for Tuberculosis No. 2, Cresson.  
 \*T. H. A. Stites, M. D., medical director, Sanatorium for Tuberculosis No. 3, Hamburg.

**Division of tuberculosis dispensaries:**

\*Karl Schaffle, M. D., medical inspector, Harrisburg.

**Division of distribution of biological products:**

\*J. Moore Campbell, M. D., chief, Harrisburg.

**Division of sanitary engineering:**

\*C. A. Emerson, jr., acting chief engineer, Harrisburg.

**Bureau of vital statistics:**

\*Wilmer R. Batt, M. D., State registrar, Harrisburg.

**Division of housing:**

\*John Molitor, acting chief, Philadelphia.

**Division of public service:**

\*Edward Stuart, chief, Harrisburg.

**Division of accounting and purchasing:**

\*E. I. Simpson, chief, Philadelphia.

**Division of supplies:**

\*Charles Hartzell, superintendent, Harrisburg.

Appropriation for biennial period ending May 31, 1917, \$1,368,431.45.

Fiscal year ends May 31.

**PHILIPPINE ISLANDS.****Council of hygiene, advisory board to the director of health:**

Fernando Calderon, M. D., president, Manila.  
 Manuel Gomez, M. D., secretary, Manila.  
 Manuel Guerrero, M. D., Manila.  
 Jose Albert, M. D., Manila.  
 Benito Valdez, M. D., Manila.  
 Jose Escaler, M. D., Manila.  
 Tomas Earnshaw, Manila.

**Executive health officer:**

\*John D. Long, M. D., director of health and chief quarantine officer, Manila.

**Assistant director of health:**

\*Vicente de Jesus, M. D., Manila.

**PHILIPPINE ISLANDS—Continued.****Division of provincial sanitation:**

\*Paul Clements, M. D., chief, Manila.

**Division of city of Manila sanitation:**

\*Salvador V. del Rosario, M. D., chief, Manila.

**Office of statistics:**

\*Manuel Gomez, M. D., chief, Manila.

**Office of sanitary engineering:**

\*Edward L. Barber, chief, Manila.

**Office of hygienic and industrial development:**

\*Mamerto Tiano, acting chief, Manila.

**Office of district nursing:**

\*Miss Pearlletta Clark, chief, Manila.

**Clerical office:**

\*Michael J. Walsh, acting chief, Manila.

**Office of property:**

\*B. D. Burnham, chief, Manila.

Appropriation for fiscal year ending Dec. 31, 1917, \$604,043.

**Publications issued by health service:**

Quarterly report.

Annual report.

**PORTO RICO.****Board of health:**

Francisco del Valle Atilas, M. D., president, San Juan.

Jose Lugo-Vina, M. D., secretary, San Juan.

J. N. Carbonell, M. D., San Juan.

Jorge V. Dominguez, San Juan.

Eliseo Font y Guillot, M. D., San Juan.

J. J. Monclova, Rio Piedras.

Gustavo Munoz Diaz, San Juan.

**Executive health officer:**

Win. F. Lippitt, M. D., commissioner of health, San Juan.

**Division of property and accounts:**

F. D. McCown, chief, San Juan.

**Sanitary engineer:**

W. P. C. Lippitt, San Juan.

**Division of transmissible diseases and bacteriological laboratory:**

J. Gomez Brioso, M. D., chief, San Juan.

**Bacteriological laboratory:**

F. J. Hernandez, M. D., director, San Juan.

**Chemical laboratory:**

R. del Valle Sarraga, M. D., director, San Juan.

**Appropriations for fiscal year ending June 30, 1917:**

Department of health (proper), salaries and contingent expenses....	\$150,440.00
Leper colony.....	13,299.50
Quarantine hospital.....	2,452.00
Mosquito extermination.....	27,000.00
Suppression of anemia.....	8,000.00
Emergency fund for control and suppression of epidemics.....	8,877.98
Suppression of measles.....	50,000.00
Trust funds for control and suppression of epidemics.....	3,000.00
Insane asylum.....	22,355.67
Blind asylum.....	8,183.77
	<hr/>
	293,608.92

**Publication issued by health department:**

Annual report.

\*Full-time officer.

**RHODE ISLAND.****Board of health:**

John H. Bennett, M. D., president, Pawtucket.  
 Alexander B. Briggs, M. D., Ashaway.  
 Rev. George L. Locke, Bristol.  
 R. Morton Smith, M. D., Rivorpoint.  
 Wm. L. Harris, M. D., Providence.  
 Thomas J. McLaughlin, M. D., Woonsocket.  
 Norman M. MacLeod, M. D., Newport.

**Executive health officer:**

Gardner T. Swarts, M. D., secretary and State registrar, Providence.

**Pathologist:**

\*Harry S. Bernstein, M. D., Providence.

**Chemist:**

Stephen DeM. Gage, Providence.

**Appropriations for fiscal year ended Dec. 31, 1916:**

State board of health.....	\$9,500
Pathological laboratory.....	9,500
Chemical laboratory.....	5,500

24,500

**Publications issued by health department:**

Quarterly bulletin.

Annual report of births, deaths, and marriages.

**SOUTH CAROLINA.****Board of health:**

Robert Wilson, jr., M. D., chairman, Charleston.

James A. Hayne, M. D., secretary, Columbia.

D. B. Frontis, M. D., Ridge Spring.

C. C. Gambrell, M. D., Abbeville.

E. A. Hines, M. D., Seneca.

W. J. Burdell, M. D., Lugoff.

Wm. Egleston, M. D., Hartsville.

W. M. Lester, M. D., Columbia.

W. W. Dodson, M. D., Greenville.

Thomas H. Peeples, attorney general, Columbia.

C. W. Sawyer, comptroller general, Columbia.

**Executive health officer:**

\*James A. Hayne, M. D., secretary and State health officer, Columbia.

**Laboratory:**

\*F. A. Coward, M. D., director, Columbia.

**Rural community work:**

\*L. A. Riser, M. D., director, Columbia.

**State registrar:**

\*James A. Hayne, M. D., Columbia.

**Appropriations for fiscal year ending Dec. 31, 1917:**

Salaries.....	\$8,176.25
Contingent fund for contagious diseases.....	20,000.00
Miscellaneous.....	4,000.00
Vital statistics.....	5,000.00
Intensive county health work.....	7,000.00
Tuberculosis camp.....	30,000.00

74,176.25

**Publication issued by health department:**

Annual report.

**SOUTH DAKOTA.****Board of health:**

F. E. Ashcroft, M. D., president, Deadwood.

E. W. Fiege, M. D., vice president, Huron.

**SOUTH DAKOTA—Continued.****Board of health—Continued.**

Park B. Jenkins, M. D., superintendent, Wau-  
 bay.

H. R. Kenaston, M. D., Bonesteel.

W. E. Daniels, M. D., Madison.

**Executive health officer:**

Park B. Jenkins, M. D., superintendent and  
 executive officer, Wauabay.

**Laboratory:**

Mortimer Herzberg, M. D., director, Vermillion.

**Appropriations for fiscal year ending June 30, 1917:**

Salaries.....	\$2,900
Printing.....	1,000
Miscellaneous.....	5,500
Antitoxin and biological products.....	1,500

10,900

**Publications issued by health department:**

Quarterly bulletin.

Biennial report.

**TENNESSEE.****Board of health:**

R. E. Fort, M. D., president, Nashville.

W. J. Miller, M. D., vice president, Johnson  
 City.

V. A. Biggs, M. D., Martin.

H. K. Bryson, Nashville.

**Executive health officer:**

\*R. Q. Lillard, M. D., secretary and executive  
 officer, Lebanon.

**Registrar of vital statistics:**

H. H. Shoulders, M. D., assistant secretary and  
 State registrar, Nashville.

**Director of rural sanitation:**

Olin West, M. D., Nashville.

**Bacteriologist:**

Wm. Litterer, M. D., Nashville.

**Pure food and drug inspector:**

Harry L. Eskew, Nashville.

**Appropriations for fiscal year ending Mar. 19, 1919:**

Laboratory.....	\$6,000
Epidemic fund.....	7,000
Vital statistics.....	16,000
Rural sanitation.....	20,000
Office expenses.....	2,000
Salaries.....	4,500

55,500

**Other source of revenue:**

International health commission, rural sanita-  
 tion, \$20,000.

**TEXAS.****Board of health:**

W. B. Collins, M. D., president, Austin.

L. W. Hollis, M. D., Abilene.

L. M. Weinfeld, M. D., San Antonio.

B. E. Knolle, M. D., Industry.

W. D. Littler, M. D., Fort Worth.

H. J. Childress, M. D., Gilmer.

E. M. Wood, M. D., Hutto.

**Executive health officer:**

\*W. B. Collins, M. D., president and State  
 health officer, Austin.

\*Full-time officer.

**TEXAS—Continued.****Registrar of vital statistics and secretary State board of health:**

\*W. A. Davis, M. D., Austin.

**Chemist and bacteriologist:**

G. M. Graham, M. D., Austin.

**Quarantine department:**

\*A. L. Lincoecum, M. D., Austin.

**Sanitary engineer:**

\*V. M. Ehlers, Austin.

**Department of rural sanitation:**

\*P. W. Covington, M. D., Austin.

**Appropriation for biennial period ending**

Aug. 31, 1919..... \$200,840

Special appropriation for rural sanitation... 70,000

Special appropriation for bureau of vital statistics..... 8,000

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278,840**Publication issued by health department:**

Biennial report.

**UTAH.****Board of health:**

Fred Stauffer, M. D., president, Salt Lake City.

T. B. Beatty, M. D., secretary, Salt Lake City.

H. K. Merrill, M. D., Logan.

Ezra Rich, M. D., Ogden.

C. E. McDermid, M. D., Winter Quarters.

A. F. Doremus, C. E., Salt Lake City.

F. S. Bascom, M. D., Salt Lake City.

**Executive health officer:**

\*T. B. Beatty, M. D., State health commissioner, Salt Lake City.

**Appropriations for biennial period ending Mar. 31, 1919:**

Salaries..... \$12,800

Contingent expenses..... 10,000

Vital statistics..... 2,500

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25,300**Publications issued by health department:**

Quarterly bulletin.

Biennial report.

Fiscal year ends December 31.

**VERMONT.****Board of health:**

Charles S. Caverly, M. D., president, Rutland.

F. Thomas Kidder, M. D., treasurer, Woodstock.

Charles F. Dalton, M. D., secretary, Burlington.

**Executive health officer:**

\*Charles F. Dalton, M. D., secretary and executive officer, Burlington.

**Laboratory of hygiene:**

B. H. Stone, M. D., director, Burlington.

**Sanitary engineer:**

Prof. J. W. Votey, Burlington.

**Sanitary inspector:**

Henry A. Ladd, M. D., Burlington.

Appropriation for fiscal year ending June 30, 1918, \$42,000.

**Other source of revenue:**

Private donation for study and treatment of infantile paralysis.

**VERMONT—Continued.****Publications issued by health department**

Quarterly bulletin.

Biennial report.

**VIRGINIA.****Board of health:**

W. M. Smith, M. D., president, Alexandria.

S. W. Hobson, M. D., vice president, Newport News.

J. B. Fisher, M. D., secretary, Midlothian.

W. W. Baker, Hallsboro.

A. G. Crockett, M. D., Max Meadows.

W. F. Drewry, M. D., Petersburg.

T. C. Firebaugh, M. D., Harrisonburg.

Guy R. Harrison, D. D. S., Richmond.

Lewis E. Harvie, M. D., Danville.

George B. Lawson, M. D., Roanoke.

Stuart McGuire, M. D., Richmond.

L. T. Royster, M. D., Norfolk.

Beverly R. Tucker, M. D., Richmond.

Reid White, M. D., Lexington.

**Executive health officer:**

\*Ennion G. Williams, M. D., State health commissioner, Richmond.

**Assistant health commissioner:**

\*W. A. Brumfield, M. D.

**Registrar of vital statistics:**

\*W. A. Plecker, M. D., Richmond.

**Bacteriologist:**

\*J. O. Fitzgerald, jr., M. D., Richmond.

**Sanitary engineer:**

\*Richard Messer, C. E., Richmond.

**Director of publicity:**

Douglas S. Freeman, Ph. D., Richmond

**Appropriations for fiscal year ended Feb. 28, 1917:**

State board of health..... \$35,000

Vital statistics..... 6,200

Publicity..... 1,000

Investigation of communicable diseases..... 5,000

Trachoma hospital at Coeburn..... 1,200

Community sanitation for rural sections..... 7,200

Tuberculosis educational work..... 5,000

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60,600**Other sources of revenue:**

Fees for hotel inspections..... \$2,089.47

Metropolitan Life Insurance Co., one-half salary and traveling expenses of supervising nurse..... 735.85

**Publications issued by health department:**

Monthly bulletin.

Annual report.

**WASHINGTON.****Board of health:**

F. R. Hedges, M. D., president, Everett.

Wilson Johnston, M. D., Spokane.

H. T. Graves, D. V. S., Olympia.

Mrs. R. C. McCredie, Sunnyside.

**WASHINGTON—Continued.****Executive health officer:**

\*T. D. Tuttle, M. D., State commissioner of health and secretary State board of health, Seattle.

**Sanitary inspector:**

\*T. R. Wilbur, Seattle.

**Bacteriologist:**

\*M. K. Schumeister, M. D., Seattle.

**Epidemiologist:**

A. L. Windom, M. D.

Appropriation for biennial period ending Mar. 31, 1919, \$51,610.

Fiscal year ends Mar. 31.

Publication issued by health department:

Biennial report.

**WEST VIRGINIA.****Public health council:**

\_\_\_\_\_, president.

S. L. Jepson, M. D., commissioner of health, Charleston.

J. L. Pyle, M. D., Chester.

F. F. Farnsworth, M. D., Frenchton.

\_\_\_\_\_,

W. T. Henshaw, M. D., Martinsburg.

\_\_\_\_\_,

**Executive health officer:**

\*S. L. Jepson, M. D., commissioner of health, Charleston.

**Assistant commissioner of health:**

H. B. Wood, M. D., Dr. P. H.

**Division of preventable diseases:**

\_\_\_\_\_, director.

**Division of sanitary engineering:**

\*Mayo Tolman, B. S., director, Charleston.

**Hygienic laboratory:**

John N. Simpson, M. D., director, Morgantown.

Appropriation for fiscal year ending June 30, 1918, \$34,200.

**Other source of revenue:**

Fees from granting certificates to practice medicine.

**Publications issued by health department:**

Quarterly bulletin.

Annual report.

**WISCONSIN.****Board of health:**

W. F. Whyte, M. D., president, Madison.

C. A. Harper, M. D., State health officer, Madison.

**WISCONSIN—Continued.****Board of health—Continued.**

E. S. Hayes, M. D., Eau Claire.

C. H. Sutherland, M. D., Janesville.

C. A. Richards, M. D., Rhinelander.

Otho Fiedler, M. D., Sheboygan.

J. M. Furstman, M. D., La Crosse.

**Executive health officer:**

C. A. Harper, M. D., State health officer, Madison.

**Division of general administration:**

C. A. Harper, director, M. D., Madison.

**Bureau of vital statistics:**

\*L. W. Hutchcroft, chief statistician, Madison.

**Bureau of education:**

\*Louis W. Bridgman, chief clerk, Madison.

**Laboratory of hygiene:**

\*W. D. Stovall, M. D., bacteriologist and acting director, Madison.

**Appropriations for fiscal year ending June 30, 1917:**

General administration.....	\$35,000
Emergency appropriation for epidemics.....	7,500
Branch laboratory and State co-operative laboratories.....	2,500
Prevention of infantile blindness.....	1,500
Water survey.....	3,000
Licensing of embalmers, hotels and restaurants, plumbers, and barbers..	31,641
	<u>81,141</u>

**Publications issued by health department:**

Quarterly bulletin.

Biennial report.

**WYOMING.****Board of health:**

C. Y. Beard, M. D., secretary, Cheyenne.

Herbert T. Harris, M. D., Basin.

Anna G. Hurd, M. D., Sheridan.

**Executive health officer:**

C. Y. Beard, M. D., secretary, Cheyenne.

**Appropriations for fiscal year ended Mar. 31, 1917:**

State board of health.....	\$1,250
Vital statistics.....	500
	<u>1,750</u>

**Publication issued by health department:**

Biennial report.

\* Full-time officer.

# 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.

#### California Report for the Week Ended June 23, 1917.

The California State Board of Health reported concerning the status of preventable diseases in California for the week ended June 23, 1917, as follows: Four cases of cerebrospinal meningitis were notified, making a total of 16 cases reported since June 1, 1917. Chicken pox, diphtheria, measles, mumps, and scarlet fever continued to decrease in the numbers of cases notified. Pneumonia and whooping cough showed slight increases. An outbreak of acute dysentery occurred in Colusa County, with 15 notified cases. Four cases of smallpox were notified, 1 in Fresno and 3 in Marin County. Of typhoid fever, 17 cases were reported, 1 case each in Bakersfield, Petaluma, Kern County, and San Joaquin County, 4 each in Sacramento and San Francisco, 3 in Oakland, and 2 in Los Angeles.

The details of notifiable disease cases reported in the State during the week ended June 16 are as follows:

Cerebrospinal meningitis.....	6	Poliomyelitis.....	2
Chicken pox.....	98	Ophthalmia neonatorum.....	1
Diphtheria.....	18	Scarlet fever.....	40
Erysipelas.....	7	Smallpox.....	1
German measles.....	50	Syphilis.....	28
Gonococcus infection.....	49	Tuberculosis.....	92
Malaria.....	14	Typhoid fever.....	18
Measles.....	316	Typhus fever.....	1
Mumps.....	149	Whooping cough.....	65
Pneumonia.....	21		

## RECIPROCAL NOTIFICATION.

## Minnesota.

*Cases of communicable diseases referred during May, 1917, to other State health departments by department of health of the State of Minnesota.*

Disease and locality of notification.	Referred to health authority of—	Why referred.
Diphtheria: Minneapolis Health Department, Hennepin County.	La Crosse, La Crosse County, Wis.....	Two cooks, exposed to diphtheria in their child who died in Minneapolis City Hospital, left Minnesota for Wisconsin.
Measles: Wild Rice Lutheran Orphans' Home, Twin Valley, Norman County.	Newman Grove, Madison County, Nebr.	Four children broken out with measles 1 day after arriving at orphans' home in Minnesota from Nebraska.
Smallpox: Minneapolis Health Department, Hennepin County.	Hamilton, Marion County, Iowa .....	Sent to quarantine hospital, Minneapolis, for smallpox 3 days after leaving her home in Iowa.
Tuberculosis: Mayo Clinic, Rochester, Olmsted County.	Bismarck, Burleigh County, N. Dak.; Goldenvalley, Mercer County, N. Dak.; Napoleon, Logan County, N. Dak.	Traveling salesman broken out with smallpox on arrival home in Minneapolis from North Dakota.
St. Paul Bureau of Health, Ramsey County.	Waukegan, Lake County, Ill.; Osage, Mitchell County, Iowa; Glidden, Carroll County, Iowa; Escanaba, Delta County, Mich.; Traverse City, Grand Traverse County, Mich.; Ruso, McLean County, N. Dak.; Elgin, Morton County, N. Dak.; Freeport, Armstrong County, Pa.; Hartford, Minnehaha County, S. Dak.; Aberdeen, Brown County, S. Dak.; Eau Galle, Dunn County, Wis.; Centuria, Polk County, Wis.; Superior, Douglas County, Wis.; Dominion City, Manitoba, Canada; Winnipeg, Manitoba, Canada.	One incipient, 8 advanced, 5 moderately advanced and 1 apparently cured cases left Mayo Clinic for homes.
	Cleveland, Cuyahoga County, Ohio.....	Open case left Minnesota for Ohio.

## ANTHRAX.

## State Reports for May, 1917.

During the month of May, 1917, 1 case of anthrax was reported in Louisiana and 1 case was reported in Ohio.

## Ohio Reports for February and March, 1917.

During the month of February, 1917, 1 case of anthrax was reported in Ohio, and 1 case was reported in March.



## CEREBROSPINAL MENINGITIS.

## State Reports for May, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Mississippi:</b>	
Cowley County—		Greene County.....	1
Arkansas City.....	1	Tate County.....	1
Crawford County—		Wayne County.....	1
Pittsburg.....	1	Total.....	3
Leavenworth County—		<b>Ohio:</b>	
Fort Leavenworth.....	1	Allen County.....	1
McPherson County—		Ashland County.....	5
McPherson (R. D.).....	1	Brown County.....	1
Montgomery County—		Crawford County.....	1
Caney.....	1	Cuyahoga County—	
Independence.....	1	Cleveland.....	28
Sycamore.....	1	Franklin County—	
Rice County.....	1	Columbus.....	4
Geneseo.....	1	Gallia County.....	1
Sedgwick County—		Hamilton County—	
Wichita.....	2	Cincinnati.....	9
Sumner County—		Holmes County.....	1
Conway Springs (R. D.).....	1	Jefferson County—	
Trego County—		Steubenville.....	3
Wakeeney.....	1	Logan County.....	1
Wyandotte County—		Lorain County.....	1
Kansas City.....	8	Lucas County—	
Rosedale.....	3	Toledo.....	4
Total.....	23	Mahoning County.....	12
<b>Minnesota:</b>		Montgomery County.....	2
Aitkin County—		Ottawa County.....	1
Hill City.....	1	Preble County.....	1
Cottonwood County—		Seneca County.....	2
Mountain Lake.....	1	Stark County—	
Crow Wing County—		Canton.....	4
Crow Wing Township.....	1	Summit County.....	25
Grant County—		Trumbull County.....	2
Elbow Lake.....	1	Total.....	109
Lien Township.....	1	<b>Pennsylvania:</b>	
Maceville Township.....	1	Allegheny County.....	46
Hennepin County—		Armstrong County.....	1
Minneapolis.....	24	Butler County.....	1
West Minneapolis.....	1	Cambria County.....	9
<b>Lyon County—</b>		Chester County.....	1
Tracy.....	1	Clearfield County.....	1
Custer Township.....	1	Crawford County.....	1
<b>McLeod County—</b>		Delaware County.....	2
Glencoe.....	1	Elk County.....	1
<b>Martin County—</b>		Erie County.....	2
Ceylon.....	1	Fayette County.....	1
Fairmont.....	1	Juniata County.....	1
Sherburn.....	1	Lancaster County.....	1
Warrenton Township.....	1	Lawrence County.....	5
<b>Morrison County—</b>		Lebanon County.....	1
Royalton.....	1	Luzerne County.....	4
Nicollet County—		Mercer County.....	1
St. Peter.....	1	Montgomery County.....	1
Olmsted County—		Northampton County.....	1
Haverhill Township.....	1	Philadelphia County.....	86
<b>Ramsey County—</b>		Schuylkill.....	2
St. Paul.....	18	Washington County.....	2
New Canada Township.....	1	Westmoreland County.....	4
<b>St. Louis County—</b>		Total.....	176
Duluth.....	4	<b>Rhode Island:</b>	
Virginia.....	1	Newport County—	
Herman Township.....	1	Portsmouth (town).....	1
<b>Sherburne County—</b>		Providence County—	
Becker Township.....	1	Providence.....	3
<b>Sibley County—</b>		Total.....	4
Winthrop.....	1	<b>South Carolina:</b>	
Severance Township.....	1	York County.....	1
<b>Stearns County—</b>		<b>Ohio (Feb. 1-28):</b>	
St. Cloud.....	2	Ashtabula County—	
Waite Park.....	1	Ashtabula.....	3
<b>Steele County—</b>			
Owatonna.....	1		
<b>Winona County—</b>			
Winona.....	1		
<b>Wright County—</b>			
Buffalo.....	1		
Total.....	75		

## CEREBROSPINAL MENINGITIS—Continued.

## Ohio Reports for February and March, 1917.

Place.	New cases reported.	Place.	New cases reported.
Ohio (Feb. 1-28)—Continued.		Ohio (Mar. 1-31)—Continued.	
Cuyahoga County—		Hamilton County—	8
Cleveland.....	10	Cincinnati.....	
Jefferson County.....	2	Lorain County—	1
Lucas County.....	3	Lorain.....	
Madison County.....	1	Lucas County—	2
Mahoning County—		Toledo.....	4
Youngstown.....	2	Mahoning County.....	1
Miami County.....	1	Monroe County.....	4
Montgomery County—		Montgomery County.....	2
Dayton.....	1	Ottawa County.....	2
Summit County.....	11	Pike County.....	
Trumbull County.....	2	Richland County—	1
Total.....	36	Mansfield.....	1
		Ross County.....	
Ohio (Mar. 1-31):		Scioto County.....	1
Ashtabula County.....	3	Portsmouth.....	
Clermont County.....	1	Seneca County—	1
Cuyahoga County.....	27	Fostoria.....	7
Franklin County—		Stark County.....	29
Columbus.....	3	Summit County.....	1
Gallia County—		Trumbull County.....	
Gallipolis.....	1	Total.....	100

## City Reports for Week Ended June 9, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	1		Galveston, Tex.....	1	
Baltimore, Md.....	8	6	Hartford, Conn.....	4	1
Boston, Mass.....	1	3	Indianapolis, Ind.....	1	
Bridgeport, Conn.....	1	1	Kansas City, Kans.....	3	
Brockton, Mass.....	1	1	Los Angeles, Cal.....	2	1
Buffalo, N. Y.....	2	2	Milwaukee, Wis.....	1	
Canton, Ohio.....	1		Minneapolis, Minn.....	3	
Chelsea, Mass.....	1		Newark, N. J.....	5	1
Chicago, Ill.....	22	9	New Britain, Conn.....		1
Chicopee, Mass.....	1		New York, N. Y.....	9	5
Cincinnati, Ohio.....	1	1	Niagara Falls, N. Y.....	1	1
Cleveland, Ohio.....	4	1	Orange, N. J.....	2	1
Columbus, Ohio.....	1	1	Philadelphia, Pa.....	21	14
Dayton, Ohio.....	1	1	Pittsburgh, Pa.....	2	3
Detroit, Mich.....	6	3	Pittsfield, Mass.....		1
East Orange, N. J.....	2		St. Louis, Mo.....	9	2
Elizabeth, N. J.....	2		Springfield, Mass.....	1	1
Erie, Pa.....	1		Troy, N. Y.....		1
Ft. Wayne, Ind.....	1	1	Washington, D. C.....	3	2
Ft. Worth, Tex.....	1	1	Zanesville, Ohio.....	2	

## DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1058.

## ERYSIPELAS.

## City Reports for Week Ended June 9, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Allentown, Pa.....	2	.....	Los Angeles, Cal.....	4	1
Baltimore, Md.....	2	1	Madison, Wis.....	.....	1
Boston, Mass.....	.....	2	Melrose, Mass.....	.....	1
Buffalo, N. Y.....	3	2	Milwaukee, Wis.....	4	.....
Chicago, Ill.....	20	4	Nashville, Tenn.....	1	.....
Cincinnati, Ohio.....	1	.....	Newark, N. J.....	9	.....
Cleveland, Ohio.....	7	.....	New London, Conn.....	1	.....
Coffeville, Kans.....	1	.....	New York, N. Y.....	.....	10
Dayton, Ohio.....	1	1	Niagara Falls, N. Y.....	2	.....
Denver, Colo.....	1	1	Philadelphia, Pa.....	9	2
Detroit, Mich.....	6	2	Pittsburgh, Pa.....	16	1
Duluth, Minn.....	1	.....	Portland, Oreg.....	1	.....
Green Bay, Wis.....	.....	1	Reading, Pa.....	1	.....
Hartford, Conn.....	1	.....	Rochester, N. Y.....	3	.....
Kalamazoo, Mich.....	3	.....	St. Louis, Mo.....	12	4
Kansas City, Mo.....	1	.....	Sandusky, Ohio.....	1	1
Lancaster, Pa.....	1	.....	Washington, Pa.....	1	.....

## LEPROSY.

## Oregon—Klamath Falls.

Dr. Warren Hunt, health officer of the city and county of Klamath Falls, Oreg., reported that on June 14, 1917, a case of leprosy of the tubercular type was notified at Klamath Falls, in the person of J. S., aged 22 years, male, native of Italy, had been in the United States about six years and at Klamath Falls about six weeks. The patient had lived in Spokane, Wash., before going to Klamath Falls.

## City Report for Week Ended June 9, 1917.

During the week ended June 9, 1917, one case of leprosy was reported in Los Angeles, Cal.

## MALARIA.

## State Reports for May, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Mississippi—Continued.</b>	
Cowley County—		Clarke County.....	37
Winfield.....	1	Clay County.....	85
Sumner County—		Coahoma County.....	494
Ashton (R. D.).....	1	Copiah County.....	130
Total.....	2	Covington County.....	117
		De Soto County.....	52
<b>Minnesota:</b>		Forrest County.....	167
Hennepin County—		Franklin County.....	89
Minneapolis.....	1	George County.....	29
		Greene County.....	30
<b>Mississippi:</b>		Grenada County.....	40
Adams County.....	56	Hancock County.....	89
Alcorn County.....	69	Harrison County.....	125
Amite County.....	50	Hinds County.....	307
Attala County.....	113	Holmes County.....	332
Benton County.....	25	Itawamba County.....	107
Bolivar County.....	620	Jackson County.....	46
Calhoun County.....	183	Jasper County.....	95
Carroll County.....	114	Jefferson County.....	107
Choctaw County.....	42	Jefferson Davis County.....	40
Claiborne County.....	83	Jones County.....	185
		Kemper County.....	63

## MALARIA—Continued.

## State Reports for May, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Mississippi—Continued.</b>		<b>Mississippi—Continued.</b>	
Lafayette County.....	75	Union County.....	83
Lamar County.....	57	Walthall County.....	32
Lauderdale County.....	140	Warren County.....	216
Lawrence County.....	96	Washington County.....	361
Leake County.....	82	Wayne County.....	58
Lee County.....	204	Webster County.....	35
Leflore County.....	419	Wilkinson County.....	16
Lincoln County.....	97	Winston County.....	162
Lowndes County.....	41	Yalobusha County.....	87
Madison County.....	67	Yazoo County.....	452
Marion County.....	141		
Marshall County.....	128	Total.....	9,587
Monroe County.....	46		
Montgomery County.....	49	<b>New Jersey:</b>	
Newton County.....	50	Bergen County.....	1
Noxubee County.....	57	Burlington County.....	5
Oktibbeha County.....	75	Camden County.....	1
Panola County.....	187	Essex County.....	2
Pearl River County.....	43	Hudson County.....	1
Perry County.....	100	Middlesex County.....	1
Pike County.....	71	Passaic County.....	4
Pontotoc County.....	72	Somerset.....	2
Prentiss County.....	88		
Quitman County.....	102	Total.....	17
Rankin County.....	46		
Scott County.....	90	<b>South Carolina:</b>	
Sharkey County.....	126	Beaufort County.....	14
Simpson County.....	119	Chester County.....	3
Smith County.....	89	Laurens County.....	1
Stone County.....	17	Marion County.....	12
Sunflower County.....	524	Orangeburg County.....	6
Tate County.....	202	Williamsburg County.....	1
Tippah County.....	90		
Tishomingo.....	49	Total.....	37
Tunica County.....	125		

## Ohio Report for February, 1917.

During the month of February, 1917, one case of malaria was reported in Cincinnati, Hamilton County, Ohio.

## City Reports for Week Ended June 9, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....	2	.....	Newark, N. J.....	1	.....
Boston, Mass.....	1	.....	Philadelphia, Pa.....	1	.....
Fall River, Mass.....	1	.....	Richmond, Va.....		1
Los Angeles, Cal.....	1	.....			

## MEASLES.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1058.

## PELLAGRA.

## State Reports for May, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Mississippi—Continued.</b>	
Cowley County—		Marion County.....	25
Winfield.....	1	Marshall County.....	24
Crawford County—		Monroe County.....	6
Pittsburg.....	3	Newton County.....	1
Sedgwick County—		Noxubee County.....	22
Wichita.....	2	Oktibbeha County.....	6
Stevens County—		Panola County.....	22
Hugoton.....	1	Pearl River County.....	22
Total.....	7	Perry County.....	25
		Pike County.....	24
<b>Minnesota:</b>		Pontotoc County.....	7
Olmsted County—		Prentiss County.....	15
Rochester.....	1	Quitman County.....	40
		Rankin County.....	2
<b>Mississippi:</b>		Scott County.....	32
Adams County.....	17	Sharkey County.....	9
Alcorn County.....	15	Simpson County.....	4
Amite County.....	3	Smith County.....	1
Attala County.....	7	Stone County.....	3
Benton County.....	3	Sunflower County.....	63
Calhoun County.....	12	Tate County.....	27
Carroll County.....	3	Tippah County.....	4
Choctaw County.....	1	Tishomingo County.....	12
Claiborne County.....	7	Tunica County.....	54
Clarke County.....	5	Union County.....	5
Clay County.....	5	Walthall County.....	9
Coahoma County.....	123	Warren County.....	19
Copiah County.....	48	Washington County.....	59
Covington County.....	16	Wayne County.....	19
De Soto County.....	35	Webster County.....	1
Forrest County.....	36	Wilkinson County.....	5
Franklin County.....	4	Winston County.....	7
George County.....	11	Yalobusha County.....	8
Greene County.....	29	Yazoo County.....	50
Grenada County.....	1	Total.....	1,610
Hancock County.....	6		
Harrison County.....	27	<b>South Carolina:</b>	
Hinds County.....	87	Anderson County.....	3
Holmes County.....	30	Cherokee County.....	1
Itawamba County.....	13	Chester County.....	2
Jackson County.....	16	Fairfield County.....	1
Jasper County.....	10	Greenville County.....	1
Jefferson County.....	4	Kershaw County.....	4
Jefferson Davis County.....	5	Lancaster County.....	3
Jones County.....	103	Laurens County.....	2
Kemper County.....	8	Marion County.....	3
Lamar County.....	23	Orangeburg County.....	1
Lauderdale County.....	51	Richland County.....	2
Lawrence County.....	11	Saluda County.....	1
Leake County.....	3	Spartanburg County.....	16
Lee County.....	42	Union County.....	1
Le Flore County.....	77	York County.....	1
Lincoln County.....	27	Total.....	42
Lowndes County.....	12		
Madison County.....	42		

## City Reports for Week Ended June 9, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....	4	.....	Nashville, Tenn.....	11	1
Charleston, S. C.....	.....	2	New Orleans, La.....	2	1
Kansas City, Mo.....	.....	1	Richmond, Va.....	1	1
Memphis, Tenn.....	3	.....	Taunton, Mass.....	1	.....
Mobile, Ala.....	3	1	Wilmington, N. C.....	.....	1

**PLAGUE.****California—Plague-Infected Squirrels Found.**

Passed Asst. Surg. Williams reported the finding of plague-infected ground squirrels in California as follows: In Alameda County during the period from June 4 to 16, 1917, 10 infected squirrels were found in Township 2, all having been found within a radius of 6 miles of Altamont, mostly to the east and northeast of the town. In San Benito County on June 7 two infected squirrels were found on the B. D. Sindel ranch, 3 miles south of Paicines. In Santa Cruz County on May 29 two infected squirrels were found on the Bauman ranch, 8 miles east of Watsonville.

**Hawaii—Paauhau.**

Surg. Trotter reported the occurrence of two fatal cases of plague at Paauhau, Hawaii, as follows: A stableman at the Paauhau Mill Camp died of plague June 19, and a Japanese rat trapper died of the disease June 23, 1917.

**Hawaii—Paauhau—Plague-Infected Rat Found.**

Surg. Trotter reported that a plague-infected rat was found at the Paauhau Mill Camp, Paauhau, Hawaii, June 14, 1917

**PNEUMONIA.****City Reports for Week Ended June 9, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Altoona, Pa.	1	.....	Lima, Ohio	1	.....
Baltimore, Md.	6	11	Lincoln, Nebr.	1	.....
Beaver Falls, Pa.	2	.....	Los Angeles, Cal.	7	4
Binghampton, N. Y.	1	6	Lowell, Mass.	2	.....
Boston, Mass.	25	17	Lynn, Mass.	1	3
Braddock, Pa.	2	.....	Manchester, N. H.	1	1
Cambridge, Mass.	1	5	McKeesport, Pa.	1	1
Canton, Ohio.	1	1	Newark, N. J.	31	9
Chelsea, Mass.	1	.....	New Bedford, Mass.	2	2
Chicago, Ill.	165	85	Newburyport, Mass.	1	.....
Cincinnati, Ohio	2	7	New Castle, Pa.	2	.....
Cleveland, Ohio	17	26	Newton, Mass.	1	.....
Dayton, Ohio.	2	2	North Adams, Mass.	1	.....
Detroit, Mich.	6	24	Philadelphia, Pa.	77	44
Dubuque, Iowa	3	3	Pittsburgh, Pa.	22	24
Duluth, Minn.	2	3	Pontiac, Mich.	3	1
Fall River, Mass.	4	2	Reading, Pa.	1	2
Flint, Mich.	3	.....	Rochester, N. Y.	10	2
Harrisburg, Pa.	1	4	San Diego, Cal.	1	.....
Haverhill, Mass.	5	1	San Francisco, Cal.	4	6
Jackson, Mich.	2	.....	Schenectady, N. Y.	3	.....
Kalamazoo, Mich.	5	4	Somerville, Mass.	1	.....
Kansas City, Mo.	2	5	Springfield, Mass.	1	3
Lancaster, Pa.	1	.....	Steelton, Pa.	4	.....

## POLIOMYELITIS (INFANTILE PARALYSIS).

## Vermont.

Collaborating Epidemiologist Dalton reported that during the period from June 16 to 22, 1917, nine cases of poliomyelitis, with 1 death, were notified in Vermont as follows: Montpelier, 4; Barre, 2; Waitsfield, 3 cases, 1 death.

## State Reports for May, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Montana—Continued.</b>	
Cherokee County—		Teton County.....	1
Galena.....	1	Toole County.....	5
Douglas County—		Total.....	9
Eudora (R. D.).....	1		
Grant County—		<b>New Jersey:</b>	
Sullivan Township.....	1	Camden County.....	2
Sedgwick County—		Essex County.....	9
Wichita.....	1	Hudson County.....	2
Total.....	4	Total.....	13
<b>Louisiana:</b>			
Caddo Parish.....	1	<b>Ohio:</b>	
<b>Maine:</b>		Ashtabula County.....	2
Franklin County—		Cuyahoga County—	
Wilton (town).....	1	Cleveland.....	1
<b>Michigan:</b>		Greene County.....	1
Berrien County—		Hamilton County.....	3
Benton Harbor.....	2	Knox County.....	1
Kent County—		Madison County.....	1
Grand Rapids.....	1	Montgomery County—	
Total.....	3	Dayton.....	2
<b>Minnesota:</b>		Pickaway County.....	1
Blue Earth County—		Portage County.....	2
Rapidian Township.....	1	Scioto County.....	2
Brown County—		Summit County—	
Linden Township.....	1	Akron.....	2
Hennepin County—		Trumbull County.....	1
Minneapolis.....	1	Tuscarawas County.....	1
Kittson County—		Total.....	20
Hallock.....	1		
Lac qui Parle County—		<b>Pennsylvania:</b>	
Garfield Township.....	1	Bucks County.....	1
<b>Mahnomon County—</b>		Cambria County.....	1
Government saw mill, Elbow		Delaware County.....	2
Lakes.....	1	Lancaster County.....	1
Steele County—		Lawrence County.....	1
Owatonna.....	1	Philadelphia County.....	1
Total.....	7	Total.....	7
<b>Mississippi:</b>			
Harrison County.....	1	<b>Rhode Island:</b>	
Kemper County.....	1	Kent County—	
Monroe County.....	1	West Warwick (town).....	1
Wilkinson County.....	2	Providence County—	
Total.....	5	Burrillville (town).....	1
<b>Montana:</b>		Total.....	2
Carbon County.....	2		
Madison County.....	1	<b>South Carolina:</b>	
		Chesterfield County.....	2
		Marlboro County.....	1
		Pickens County.....	1
		Total.....	4

**POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.****Ohio Reports for February and March, 1917.**

Place.	New cases reported.	Place.	New cases reported.
Ohio (Feb. 1-28):		Ohio (Mar. 1-31):	
Cuyahoga County—		Columbiana County.....	1
Cleveland.....	2	Lucas County—	
Lucas County—		Toledo.....	1
Toledo.....	1	Scioto County—	
Mercer County.....	1	Portsmouth.....	1
Montgomery County—		Stark County—	
Dayton.....	2	Alliance.....	1
Scioto County.....	1	Trumbull County.....	1
Summit County—		Vinton County.....	1
Akron.....	2		
Wood County.....	1	Total.....	6
Total.....	10		

**City Reports for Week Ended June 9, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Boston, Mass.....	1		New York, N. Y.....	5	1
Buffalo, N. Y.....	1		Perth Amboy, N. J.....	1	
Cambridge, Mass.....	1	1	Portsmouth, N. H.....	1	
Columbus, Ohio.....		1	Sioux City, Iowa.....	1	
Grand Rapids, Mich.....		1	Springfield, Ill.....	1	
Indianapolis, Ind.....	1		Worcester, Mass.....	2	1
Long Beach, Cal.....	1				

**RABIES IN ANIMALS.****City Reports for Week Ended June 9, 1917.**

During the week ended June 9, 1917, 1 case of rabies in animals was reported in Buffalo, N. Y., and 2 cases were reported in Detroit, Mich.

**ROCKY MOUNTAIN SPOTTED FEVER.****Montana Report for May, 1917.**

Place.	New cases reported.	Place.	New cases reported.
Montana:		Montana:	
Carbon County.....	4	Ravalli County.....	2
Custer County.....	1	Yellowstone County.....	2
Fergus County.....	1	Billings.....	2
Lewis and Clark County—		Total.....	14
Helena.....	1		
Missoula County.....	1		

**SCARLET FEVER.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1058.



## SMALLPOX.

## Minnesota.

Collaborating Epidemiologist Bracken reported that during the week ended June 23, 1917, five new foci of smallpox infection were reported in Minnesota, cases of the disease having been notified as follows: Fillmore County, Newburg Township, 1; Goodhue County, Pine Island, 2; Martin County, Pleasant Prairie Township, 1; Roseau County, Huss Township, 1; Stearns County, Eden Lake Township, 1.

## New Jersey—Burlington County—Correction.

The report of one case of smallpox in Burlington County, N. J., during the month of March, 1917, published in the Public Health Reports of April 27, 1917, page 619, was an error, as no case of smallpox occurred in Burlington County during March.

## State Reports for May, 1917.

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.
<b>Kansas:</b>						
Atchison County—						
Atchison.....	2				2	
Muscotah.....	7				7	
Barton County—						
Great Bend.....	2				2	
Hoisington.....	10			2	8	
Bourbon County—						
Fort Scott.....	1				1	
Brown County—						
Everest (R. D.).....	1				1	
Horton.....	1				1	
Robinson.....	2				2	
Butler County—						
Eldorado.....	2				2	
Cherokee County—						
Columbus (R. D.).....	2				2	
Galena.....	1				1	
Coffey County—						
Leroy.....	1				1	
Crawford County—						
Arcadia.....	1				1	
Arma.....	5				5	
Cherokee (R. D.).....	1				1	
Franklin.....	13		1		12	
Frontenac.....	2				2	
Girard (2 R. D.).....	5				5	
Mulberry (1 R. D.).....	4		2		2	
Pittsburg (16 R. D.).....	18				18	
Ringo.....	1				1	
Yale.....	1				1	
Doniphan County—						
Elwood.....	22				22	
Herndon.....	1				1	
Severance (R. D.).....	3				3	
Wathena (R. D.).....	7		2		5	
Douglas County—						
Eudora (4 R. D.).....	13				13	
Ellis County—						
Ellis.....	1				1	
Hays.....	2		1		1	

## SMALLPOX—Continued.

## State Reports for May, 1917—Continued.

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.
Kansas—Continued.						
Labette County—						
Parsons.....	1			1		
Leavenworth County—						
Leavenworth.....	1				1	
Lincoln County—						
Lincoln (R. D.).....	8				8	
Lyon County—						
Emporia.....	1				1	
Marion County—						
Marion (1 R. D.).....	2				2	
McPherson County—						
Marquette.....	6				6	
Miami County—						
Paola.....	5				5	
Mitchell County—						
Beloit.....	2				2	
Montgomery County—						
Coffeeville.....	2				2	
Independence.....	1				1	
Morris County—						
Council Grove.....	7				7	
Neosho County—						
Chanute.....	9				9	
Erie (R. D.).....	2				2	
Galesburg.....	1				1	
Ottawa County—						
Minneapolis (2 R. D.).....	8				8	
Pratt County—						
Pratt.....	1				1	
Reno County—						
Hutchinson.....	1				1	
Republic County—						
Belleville.....	1				1	
Rice County—						
Little River (1 R. D.).....	18				18	
Sterling.....	2				2	
Riley County—						
Manhattan.....	6				6	
Russell County—						
Russell (R. D.).....	3				3	
Sedgwick County—						
Garden Plain (R. D.).....	2				2	
Wichita.....	12				12	
Seward County—						
Liberal.....	6				6	
Shawnee County—						
Topeka.....	20				20	
Sheridan County—						
Selden (R. D.).....	4		2		2	
Smith County—						
Athol.....	1				1	
Lebanon.....	3				3	
Sumner County—						
Caldwell.....	5		1		4	
Washington County—						
Greenleaf.....	1				1	
Wyandotte County—						
Kansas City.....	4				4	
<b>Total.....</b>	<b>278</b>		<b>9</b>	<b>3</b>	<b>266</b>	
Michigan:						
Alcona County—						
Hayes Township.....	1					1
Harrisville Township.....	1				1	
Alpena County—						
Green Township.....	6				6	
Bay County—						
Fraser Township.....	1				1	

## SMALLPOX—Continued.

## State Reports for May, 1917—Continued.

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.
<b>Michigan—Continued.</b>						
<b>Berrien County—</b>						
Bertrand Township.....	1				1	
St. Joseph Township.....	1				1	
Benton Harbor.....	3				3	
Niles.....	1				1	
<b>Chippewa County—</b>						
Sault Ste. Marie.....	2				2	
<b>Genesee County—</b>						
Argentine Township.....	2				2	
Linden.....	1				1	
Flint.....	10				7	3
<b>Gratiot County—</b>						
Emerson Township.....	4					4
Hamilton Township.....	1				1	
North Shade Township.....	3				3	
Ithaca.....	5				5	1
Alma.....	3				2	1
<b>Iosco County—</b>						
East Tawas.....	2				2	
<b>Ingham County—</b>						
Lansing.....	20				2	18
<b>Jackson County—</b>						
Jackson.....	8				5	3
<b>Kalkaska County—</b>						
Orange Township.....	2				2	
<b>Kent County—</b>						
Gratton Township.....	2				2	
Wyoming Township.....	1					1
Grand Rapids.....	9				9	
<b>Lapeer County—</b>						
North Branch.....	1				1	
<b>Livingston County—</b>						
Deerfield Township.....	4				4	
<b>Marquette County—</b>						
Ishpeming.....	2				1	1
Marquette.....	1					1
<b>Meosota County—</b>						
Deerfield Township.....	5				5	
Fork Township.....	10				10	
Millbrook Township.....	6				6	
Barryton.....	8				8	
Big Rapids.....	5				5	
<b>Monroe County—</b>						
Monroe.....	1				1	
<b>Newago County—</b>						
Ashland Township.....	1			1		
<b>Oakland County—</b>						
Birmingham.....	3			1	2	
Pontiac.....	23				23	
<b>Ottawa County—</b>						
Allendale Township.....	1				1	
Blendon Township.....	4				2	2
Olive Township.....	2				2	
<b>Presque Isle County—</b>						
Allis Township.....	1				1	
<b>St. Clair County—</b>						
Columbus Township.....	1				1	
Cottrellville Township.....	1				1	
Kimball Township.....	2				2	
Port Huron Township.....	4				4	
St. Clair Township.....	2				2	
Port Huron.....	3				3	
<b>Washtenaw County—</b>						
Ann Arbor.....	1				1	
<b>Wayne County—</b>						
Ecorse Township.....	2				2	
Highland Park Township.....	5				2	3
St. Clair Heights.....	2				2	
<b>Total.....</b>	<b>191</b>			<b>2</b>	<b>151</b>	<b>38</b>

## SMALLPOX—Continued.

## State Reports for May, 1917—Continued.

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.
<b>Minnesota:</b>						
Anoka County—						
Centreville Township.....	4				4	
Becker County—						
Cube Township.....	1				1	
Blue Earth County—						
Lake Crystal.....	1				1	
Brown County—						
New Ulm.....	1				1	
Crow Wing County—						
Ironton.....	1					1
Klondyke Township.....	1				1	
Douglas County—						
Alexandria.....	1				1	
Carlos Township.....	3				3	
Hennepin County—						
Edina.....	1					1
Minneapolis.....	152		4	14	134	
Bloomington Township.....	1				1	
Eden Prairie Township.....	1				1	
Hubbard County—						
Akeley.....	3				3	
Itasca County—						
Bovey.....	6			1		5
Marble.....	1				1	
Kanabec County—						
Ann Lake Township.....	1				1	
Kittson County—						
Hallock.....	3				3	
Lincoln County—						
Arco.....	2				2	
Lake Benton.....	1				1	
Tyler.....	1				1	
Hope Township.....	8				8	
Lyon County—						
Ballaton.....	1				1	
Custer Township.....	1				1	
Marshall County—						
Alma Township.....	1				1	
Wright Township.....	1					1
Martin County—						
Fairmont.....	1				1	
Meeker County—						
Harvey Township.....	3				3	
Morrison County—						
Belle Prairie Township.....	1				1	
Swan River Township.....	1				1	
Nobles County—						
Worthington.....	2				2	
Olmsted County—						
Rochester.....	6				6	
Stewartville.....	2				2	
Ottertail County—						
Parkers Prairie.....	2				1	1
Pennington County—						
Thief River Falls.....	6		1	1	4	
Polk County—						
Crookston.....	2				2	
Ramsey County—						
St. Paul.....	12			1	11	
Roseau County—						
Barto Township.....	1				1	
St. Louis County—						
Duluth.....	6			2	4	
Sherburne County—						
Elk River.....	1				1	
Stearns County—						
St. Cloud.....	2				2	
Sauk Center.....	2				2	
Steele County—						
Blooming Prairie.....	1				1	

## SMALLPOX—Continued.

## State Reports for May, 1917—Continued.

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.
<b>Minnesota—Continued.</b>						
Swift County—						
Benson.....	4				4	
Todd County—						
Staples.....	4				4	
Bruce Township.....	3				3	
Ward Township.....	1				1	
Wadena County—						
Verndale.....	1				1	
Washington County—						
Forest Lake.....	1				1	
Watsonwan County—						
Butterfield.....	1				1	
St. James.....	1			1		
Wilkin County—						
Campbell Township.....	1				1	
Winona County—						
Winona.....	3				3	
Hart Township.....	1			1		
Mount Vernon Township.....	1		1			
Norton Township.....	3				3	
Total.....	274		6	21	238	9
<b>Montana:</b>						
Cascade County—						
Great Falls.....	1					1
Chouteau County.....	2				2	
Custer County.....	1				1	
Dawson County.....	2				2	
Fergus County.....	1				1	
Hill County.....	4					4
Lincoln County.....	2				2	
Meagher County.....	1					1
Musselshell County.....	1				1	
Phillips County.....	4				4	
Rosebud County.....	1					1
Sheridan County.....	3				3	
Silverbow County.....	9					9
Butte.....	25					25
Valley County.....	7				7	
Fort William H. Harrison.....	1					1
Total.....	65				23	42
<b>Ohio:</b>						
Allan County.....	7				6	1
Adams County.....	4				4	
Belmont County.....	7				6	1
Butler County.....	75		1		63	11
Clark County.....	4					4
Clinton County.....	2				1	1
Coshocton County.....	3				3	
Crawford County.....	3				2	1
Cuyahoga County.....	63					63
Darke County.....	7				5	2
Erle County.....	1					1
Fayette County.....	1					1
Franklin County.....	2				2	
Greene County.....	14				14	
Guernsey County.....	2					2
Hamilton County.....	5					5
Hancock County.....	17				7	10
Hardin County.....	10				5	5
Huron County.....	1					1
Lake County.....	2					2
Logan County.....	12				2	10
Lorain County.....	2				2	
Lucas County.....	4					4
Madison County.....	1					1
Mahoning County.....	5			1	4	

## SMALLPOX—Continued.

## State Reports for May, 1917—Continued.

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.
Ohio—Continued.						
Marion County.....	1					1
Mercer County.....	19					19
Miami County.....	20				8	12
Montgomery County.....	1					1
Morrow County.....	11				9	2
Muskingum County.....	3				3	
Perry County.....	1					1
Preble County.....	4				2	2
Schoto County.....	1					1
Shelby County.....	29				15	5
Stark County.....	8				4	4
Summit County.....	52				10	42
Trumbull County.....	31			1	6	24
Williams County.....	2					2
Total.....	428		1	2	183	242

## Ohio Reports for February and March, 1917.

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.
Ohio (Feb. 1-28):						
Allen County—						
Lima.....	1				1	
Ashtabula County.....	5				2	3
Belmont County.....	2					2
Clark County.....	10				9	1
Coshocton County.....	1					1
Cuyahoga County.....	53					53
Darke County.....	2			1	1	
Erie County—						
Sandusky.....	1					1
Fayette County—						
Washington C. H.....	1				1	
Franklin County—						
Columbus.....	2				2	
Geauga County.....	3				3	
Harrison County.....	3			1	2	
Highland County.....	1				1	
Jefferson County—						
Steubenville.....	1				1	
Lorain County—						
Lorain.....	1				1	
Madison County.....	3				3	
Mahoning County—						
Youngstown.....	9					9
Medina County.....	1					1
Miami County.....	19			3	14	2
Montgomery County.....	1					1
Morrow County.....	11				11	
Muskingum County.....	3				1	2
Perry County.....	1					1
Portage County.....	1			1		
Seneca County—						
Fostoria.....	5				4	1
Shelby County.....	3			1		2

## SMALLPOX—Continued.

## Ohio Reports for February and March—Continued.

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.
Ohio (Feb. 1-28)—Continued.						
Stark County—						
Canton.....	1					1
Summit County.....	24				13	11
Trumbull County.....	15				1	14
Williams County.....	1					1
Wood County.....	5				1	4
Lucas County—						
Toledo.....	15					15
Total.....	205			7	72	126
Ohio (Mar. 1-31):						
Allen County—						
Lima.....	27				27	
Ashtabula County—						
Conneaut.....	2				2	
Auglaize County—						
Wapakoneta.....	1				1	
Butler County—						
Middletown.....	9				8	1
Champaign County.....	4					4
Clark County.....	14					14
Crawford County—						
Bucyrus.....	4				4	
Cuyahoga County—						
Cleveland.....	53					53
Darke County.....	24			3	16	5
Franklin County—						
Columbus.....	3				1	2
Hamilton County—						
Cincinnati.....	3					3
Holmes County.....	1					1
Jefferson County—						
Steubenville.....	1				1	
Knox County—						
Mt. Vernon.....	2			1		1
Lawrence County—						
Ironton.....	1				1	
Licking County—						
Newark.....	4				4	
Lucas County—						
Toledo.....	2				2	
Mahoning County.....	29				1	28
Medina County.....	1				1	
Miami County.....	42			4	13	25
Montgomery County.....	1				1	
Morrow County.....	1					1
Muskingum County—						
Zanesville.....	7				6	1
Perry County.....	2					2
Pike County.....	1				1	1
Portage County.....	2				1	1
Shelby County.....	26				6	20
Stark County.....	2			1		1
Summit County.....	20				2	18
Trumbull County.....	19		1	1	6	11
Total.....	308		1	10	104	193

# **SMALLPOX—Continued.** **Miscellaneous State Reports.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Louisiana (May 1-31):</b>			<b>Mississippi (1-31)—Continued.</b>		
Ascension Parish.....	2		Newton County.....	1	
Caddo Parish.....	2		Noxubee County.....	4	
Calcasieu Parish.....	12		Oktibbeha County.....	1	
Iberia Parish.....	2		Panola County.....	2	
Jackson Parish.....	5		Pearl River County.....	1	
Jefferson Parish.....	2		Perry County.....	5	
Orleans Parish.....	26		Pike County.....	1	
Rapides Parish.....	5		Pontotoc County.....	1	
St. James Parish.....	2		Quitman County.....	1	
St. Tammany Parish.....	2		Sunflower County.....	2	
Tangipahoa Parish.....	31		Tate County.....	5	
Vermilion Parish.....	7		Tippah County.....	7	
Washington Parish.....	3		Tunica County.....	7	
Winn Parish.....	1		Union County.....	2	
<b>Total.....</b>	<b>102</b>		Walthall County.....	5	
<b>Maine (May 1-31):</b>			Warren County.....	5	
Penobscot County—			Washington County.....	1	
Bangor.....	2		<b>Total.....</b>	<b>170</b>	
Millinocket (town).....	6		<b>New Jersey (May 1-31):</b>		
Piscataquis County—			Essex County.....	1	
Greenville (town).....	2		<b>Pennsylvania (May 1-31):</b>		
Washington County—			Allegheny County.....	9	
Danforth (town).....	1		Beaver County.....	5	
<b>Total.....</b>	<b>11</b>		Bedford County.....	3	
<b>Mississippi (May 1-31):</b>			Blair County.....	1	
Adams County.....	3		Clearfield County.....	1	
Alcorn County.....	6		Crawford County.....	2	
Attala County.....	5		Dauphin County.....	3	
Bolivar County.....	2		Erie County.....	9	
Clarke County.....	1		Forest County.....	2	
Copiah County.....	2		Indiana County.....	1	
De Soto County.....	1		Lawrence County.....	17	
Grenada County.....	6		Mercer County.....	9	
Hinds County.....	1		Northampton County.....	1	
Holmes County.....	2		Philadelphia County.....	6	
Jefferson Davis County.....	1		<b>Total.....</b>	<b>69</b>	
Jones County.....	57		<b>South Carolina (May 1-31):</b>		
Lawrence County.....	1		Greenwood County.....	1	
Lafayette County.....	1		Spartanburg County.....	1	
Lauderdale County.....	8		York County.....	1	
Lee County.....	10		<b>Total.....</b>	<b>3</b>	
LeFlore County.....	2				
Madison County.....	3				
Marshall County.....	10				

## **City Reports for Week Ended June 9, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.....	1		La Crosse, Wis.....	2	
Albany, N. Y.....	4		Little Rock, Ark.....	12	
Ann Arbor, Mich.....	1		Los Angeles, Cal.....	3	
Birmingham, Ala.....	1		Madison, Wis.....	1	
Butte, Mont.....	3		Memphis, Tenn.....	11	
Canton, Ohio.....	3		Milwaukee, Wis.....	12	
Cincinnati, Ohio.....	2		Minneapolis, Minn.....	32	
Cleveland, Ohio.....	13		New Orleans, La.....	1	
Coffeyville, Kans.....	2		Oklahoma City, Okla.....	5	
Danville, Ill.....	1		Omaha, Neb.....	8	
Denver, Colo.....	2		Pontiac, Mich.....	7	
Detroit, Mich.....	10		Quincy, Ill.....	1	
Dubuque, Iowa.....	2		Rocky Mount, N. C.....	1	
Duluth, Minn.....	1		St. Joseph, Mo.....	10	
Erie, Pa.....	5		St. Louis, Mo.....	9	2
Evansville, Ind.....	1		Salt Lake City, Utah.....	7	
Flint, Mich.....	1		Sioux City, Iowa.....	4	
Fort Wayne, Ind.....	3		Springfield, Ill.....	4	
Fort Worth, Tex.....	1		Steubenville, Ohio.....	1	
Indianapolis, Ind.....	18		Terre Haute, Ind.....	2	
Jackson, Mich.....	1		Wichita, Kans.....	2	
Kansas City, Kans.....	1		Worcester, Mass.....		1
Kansas City, Mo.....	8		Zanesville, Ohio.....	3	



## TETANUS.

City Reports for Week Ended June 9, 1917.

During the week ended June 9, 1917, 1 case of tetanus was reported in Danville, Ill.; 1 case in Lancaster, Pa; 1 death in Los Angeles, Cal.; 2 cases in New York, N. Y.; and 1 case, with 2 deaths, in Philadelphia, Pa.

## •TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, p. 1058.

## TYPHOID FEVER.

State Reports for May, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Louisiana:</b>	
Atchison County—		Acadia Parish.....	5
Atchison.....	5	Ascension Parish.....	2
Barton County—		Assumption Parish.....	1
Dighton (R. D.).....	1	Avoyelles Parish.....	3
Great Bend.....	1	Caddo Parish.....	6
Brown County—		Calcasieu Parish.....	5
Hiawatha.....	1	De Soto Parish.....	1
Morrill (R. D.).....	2	East Baton Rouge Parish.....	3
Butler County—		East Feliciana Parish.....	1
Augusta.....	1	Evangeline Parish.....	2
Douglas.....	1	Grant Parish.....	5
Eldorado.....	1	Iberia Parish.....	3
Cowley County—		Iberville Parish.....	1
Winfield.....	2	Jefferson Davis Parish.....	4
Crawford County—		Lafayette Parish.....	4
Arma.....	1	Lafourche Parish.....	2
Girard.....	1	Lincoln Parish.....	1
Doniphan County—		Livingston Parish.....	3
Severance (R. D.).....	1	Madison Parish.....	5
Douglas County—		Morehouse Parish.....	1
Clinton (R. D.).....	1	Orleans Parish.....	11
Lawrence.....	1	Plaquemines Parish.....	1
Finney County—		Rapides Parish.....	2
Garden City.....	1	Sabine Parish.....	1
Greenwood County—		St. Charles Parish.....	1
Madison.....	1	St. James Parish.....	4
Harper County—		St. Landry Parish.....	5
Anthony.....	1	St. Martin Parish.....	5
Johnson County		St. Mary Parish.....	4
Olathe.....	2	St. Tammany Parish.....	3
Leavenworth County—		Tangipahoa Parish.....	2
Leavenworth (5 R. D.).....	9	Vermillion Parish.....	2
Lyon County—		Vernon Parish.....	1
Olpe (R. D.).....	1	Washington Parish.....	1
Marion County—		Webster Parish.....	1
Lincolnville.....	1	West Carroll Parish.....	1
Marshall County—		Total.....	103
Frankfort.....	1		
Miami County—		<b>Maine:</b>	
Oswatonia.....	2	Aroostook County—	
Montgomery County—		Caribou (town).....	1
Caney.....	2	Houlton (town).....	1
Coffeyville (2 R. D.).....	3	Cumberland County—	
Morton County—		Brunswick (town).....	2
Elkhart.....	2	Portland.....	7
Osborne County—		Kennebec County—	
Osborne.....	1	Augusta.....	1
Republic County—		Litchfield (town).....	2
Scandia (R. D.).....	1	Piscataquis County—	
Russell County—		Dover (town).....	1
Bunker Hill.....	1	Greenville (town).....	1
Sedgwick County—		York County—	
Wichita.....	1	South Berwick (town).....	1
Shawnee County—		Total.....	17
Rossville.....	1		
Topeka County—		<b>Michigan:</b>	
Stevens County—		Bay County—	
Hugoton.....	1	Bay City.....	3
Total.....	53		

## TYPHOID FEVER—Continued.

## State Reports for May, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Michigan—Continued.</b>		<b>Minnesota—Continued.</b>	
Berrien County—		Cottonwood County—	
Benton Harbor.....	3	Mountain Lake.....	1
Niles.....	1	Douglas County—	
Branch County—		Solem Township.....	1
Union City.....	1	Hennepin County—	
Calhoun County—		Minneapolis.....	4
Battle Creek.....	1	St. Bonifacius.....	1
Marshall.....	1	Lake County—	
Cass County—		Two Harbors.....	1
Edwardsburg.....	1	Lesueur County—	
Chippewa County—		Kasota.....	1
Sault Ste. Marie.....	3	Mower County—	
Delta County—		Lyle.....	2
Gladstone.....	1	Nobles County—	
Emmet County—		Worthington.....	1
Littlefield Township.....	1	Norman County—	
Genesee County—		Perley.....	1
Flint.....	6	Ottertail County—	
Isabella County—		Buttler Township.....	1
Broomfield Township.....	1	Pennington County—	
Kalamazoo County—		Thief River Falls.....	1
Kalamazoo.....	1	Polk County—	
Kent County—		Crookston.....	1
Caledonia Township.....	2	Ramsey County—	
Grand Rapids.....	1	St. Paul.....	1
Livingston County—		Redwood County—	
Deerfield Township.....	1	Redwood Falls.....	1
Macomb County—		Granite Rock Township.....	1
Mount Clemens.....	1	Rice County—	
Manistee County—		Faribault.....	2
Copemish.....	1	Roseau County—	
Marquette County—		Roosevelt.....	1
Marquette.....	9	Warroad.....	1
Negaunee.....	1	St. Louis County—	
Mason County—		Aurora.....	1
Ludington.....	1	Duluth.....	3
Mecosta County—		Ely.....	1
Grant Township.....	1	Gilbert.....	1
Oakland County—		Stearns County—	
Pontiac.....	1	St. Cloud.....	1
Oceana County—		Steele County—	
Weare Township.....	1	Owatonna.....	1
Ontonagon County—		Wadena County—	
Rockland Township.....	1	Minneka.....	1
Ottawa County—		Watsonwan County—	
Wright Township.....	2	Maellia.....	1
Saginaw County—		Wilkin County—	
St. Charles.....	1	Breckenridge.....	2
Saginaw.....	2		
St. Clair County—		<b>Total.....</b>	<b>43</b>
Port Huron.....	1		
Sanilac County—		<b>Mississippi:</b>	
Greenleaf Township.....	1	Adams County.....	4
Van Buren County—		Alcorn County.....	1
South Haven.....	1	Amite County.....	1
Wayne County—		Attala County.....	3
Monguagon Township.....	1	Benton County.....	1
Ford.....	2	Bolivar County.....	4
Highland Park.....	1	Calhoun County.....	1
Wyandotte.....	7	Carroll County.....	3
<b>Total.....</b>	<b>64</b>	Choctaw County.....	3
		Clarke County.....	1
<b>Minnesota:</b>		Clay County.....	2
Anoka County—		Coahoma County.....	4
Ramsey Township.....	1	Copiah County.....	12
Becker County—		Covington County.....	12
Callaway.....	1	De Soto County.....	1
Beltrami County—		Forrest County.....	9
Spooner.....	1	Franklin County.....	2
Benton County—		Hancock County.....	2
St. Cloud.....	1	Harrison County.....	8
Blue Earth County—		Hinds County.....	22
Lyra Township.....	1	Holmes County.....	2
Chisago County—		Jackson County.....	2
Lindstrom.....	1	Jasper County.....	2
Clay County—		Jefferson Davis County.....	3
Moorhead.....	2	Jones County.....	17
		Kemper County.....	3

## TYPHOID FEVER—Continued.

## State Reports for May, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Mississippi—Continued.</b>		<b>Ohio:</b>	
Lafayette County.....	3	Ashtabula County.....	2
Lamar County.....	4	Auglaize County.....	2
Lauderdale County.....	8	Belmont County.....	6
Lawrence County.....	1	Butler County.....	1
Leake County.....	4	Champaign County.....	3
Lee County.....	5	Columbiana County.....	9
Leflore County.....	9	Crawford County—	
Lincoln County.....	13	Bucyrus.....	2
Lowndes County.....	1	Cuyahoga County.....	10
Madison County.....	11	Franklin County.....	5
Marion County.....	4	Guernsey County.....	1
Marshall County.....	9	Hamilton County.....	1
Monroe County.....	7	Henry County.....	2
Montgomery County.....	1	Holmes County.....	1
Newton County.....	1	Jefferson County.....	4
Noxubee County.....	6	Licking County.....	2
Oktibbeha County.....	4	Lorain County.....	2
Panola County.....	1	Lucas County.....	13
Pearl River County.....	3	Madison County.....	1
Perry County.....	5	Mahoning County.....	11
Pike County.....	22	Medina County.....	1
Pontotoc County.....	3	Meigs County.....	2
Quitman County.....	1	Montgomery County.....	5
Rankin County.....	1	Morrow County.....	1
Scott County.....	3	Muskingum County.....	23
Simpson County.....	1	Ottawa County.....	1
Smith County.....	1	Perry County.....	1
Stone County.....	1	Pickaway County—	
Tate County.....	3	Circleville.....	3
Tippah County.....	4	Portage County.....	1
Tishomingo County.....	5	Putnam County.....	2
Union County.....	1	Ross County.....	1
Warren County.....	5	Sandusky County.....	3
Washington County.....	10	Scioto County.....	3
Webster County.....	4	Seneca County.....	1
Wilkinson County.....	1	Summit County.....	16
Winston County.....	7	Tuscarawas County.....	3
Yalobusha County.....	5	Wayne County.....	1
Yazoo County.....	5	Wood County.....	2
		Wyandot County.....	2
Total.....	308	Total.....	150
<b>Montana:</b>		<b>Pennsylvania:</b>	
Blaine County.....	2	Adams County.....	3
Carbon County.....	1	Allegheny County.....	40
Cascade County—		Armstrong County.....	5
Great Falls.....	1	Beaver County.....	3
Dawson County.....	2	Bedford County.....	5
Gallatin County.....	1	Berks County.....	8
Hill County.....	1	Blair County.....	3
Meagher County.....	1	Bradford County.....	3
Musselshell County.....	3	Bucks County.....	9
Park County—		Butler County.....	1
Livingston.....	2	Cambria County.....	3
Sheridan County.....	1	Carbon County.....	1
Teton County.....	1	Center County.....	1
Yellowstone County—		Chester County.....	5
Billings.....	5	Clearfield County.....	6
Total.....	20	Clinton County.....	2
<b>New Jersey:</b>		Crawford County.....	1
Atlantic County.....	2	Cumberland County.....	2
Bergen County.....	2	Dauphin County.....	9
Burlington County.....	5	Delaware County.....	10
Camden County.....	4	Erie County.....	2
Cumberland County.....	2	Fayette County.....	7
Essex County.....	10	Forest County.....	1
Hudson County.....	4	Greene County.....	1
Hunterdon County.....	2	Huntingdon County.....	2
Mercer County.....	5	Lackawanna County.....	1
Middlesex County.....	3	Lancaster County.....	8
Passaic County.....	1	Lawrence County.....	2
Salem County.....	1	Lebanon County.....	5
Sussex County.....	1	Lehigh County.....	33
Union County.....	2	Luzerne County.....	8
		Lycoming County.....	1
Total.....	44	Mercer County.....	4
		Mifflin County.....	1
		Montgomery County.....	5

## TYPHOID FEVER—Continued.

## State Reports for May, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Pennsylvania—Continued.		Rhode Island—Continued.	
Northampton County.....	4	Providence County—Continued.	
Northumberland County.....	2	Providence.....	3
Philadelphia County.....	42	Total.....	5
Schuylkill County.....	5		
Snyder County.....	1	South Carolina:	
Somerset County.....	7	Abbeville County.....	3
Susquehanna County.....	1	Charleston County.....	12
Tioga County.....	1	Chester County.....	3
Warren County.....	1	Greenville County.....	3
Westmoreland County.....	3	Greenwood County.....	2
York County.....	11	Laurens County.....	1
Total.....	279	Marlboro County.....	4
		Richland County.....	10
Rhode Island:		Sumter County.....	2
Providence County—		Union County.....	1
Johnston (town).....	1	Total.....	41
North Providence (town).....	1		

## Ohio Reports for February and March, 1917.

Place.	New cases reported.	Place.	New cases reported.
Ohio (Feb. 1-28):		Ohio (Feb. 1-28)—Continued.	
Allen County—		Trumbull County.....	3
Lima.....	1	Tuscarawas County.....	1
Ashtabula County—		Van Wert County.....	2
Conneaut.....	2	Warren County.....	2
Brown County.....	1	Wayne County.....	1
Carroll County.....	5	Wood County.....	2
Champaign County.....	2	Wyandot County.....	1
Clark County—		Total.....	140
Springfield.....	5		
Columbiana County.....	5	Ohio (Mar. 1-31):	
Crawford County.....	19	Allen County—	
Cuyahoga County.....	8	Lima.....	1
Darke County.....	1	Ashtabula County.....	15
Delaware County—		Athens County.....	1
Delaware.....	2	Belmont County.....	2
Erie County—		Clermont County.....	2
Sandusky.....	1	Clinton County.....	1
Fayette County.....	2	Columbiana County.....	3
Franklin County.....	3	Coshocton County.....	1
Gallia County.....	3	Crawford County—	
Greene County.....	3	Bucyrus.....	24
Guernsey County—		Cuyahoga County.....	18
Cambridge.....	2	Defiance County.....	1
Hamilton County.....	5	Delaware County.....	1
Hancock County—		Franklin County—	
Findlay.....	1	Columbus.....	1
Hardin County.....	2	Gallia County.....	2
Highland County.....	3	Greene County.....	3
Jackson County—		Hamilton County.....	10
Wellston.....	1	Henry County.....	2
Jefferson County—		Jackson County—	
Steubenville.....	1	Wellston.....	1
Knox County.....	1	Knox County.....	1
Lawrence County—		Lawrence County.....	6
Ironton.....	3	Licking County.....	3
Licking County.....	1	Logan County.....	3
Lucas County.....	11	Lorain County.....	2
Mahoning County.....	9	Lucas County—	
Medina County.....	1	Toledo.....	13
Miami County.....	2	Mahoning County.....	1
Montgomery County—		Medina County.....	2
Dayton.....	2	Miami County.....	2
Muskingum County.....	13	Monroe County.....	1
Ottawa County.....	1	Montgomery County—	
Pike County.....	1	Dayton.....	3
Sandusky County.....	4		
Scioto County.....	1		

## TYPHOID FEVER—Continued.

## Ohio Reports for February and March, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Ohio (Mar. 1-31)—Continued.		Ohio (Mar. 1-31)—Continued.	
Muskingum County—		Trumbull County—	
Zanesville.....	18	Warren.....	2
Pickaway County.....	5	Tuscarawas County—	
Portage County.....	1	New Philadelphia.....	2
Putnam County.....	1	Williams County.....	1
Richland County.....	4	Wood County.....	2
Seneca County.....	5	Wyandot County.....	1
Stark County—		Total.....	172
Canton.....	2		
Summit County.....	2		

## City Reports for Week Ended June 9, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.		1	Morristown, N. J.	1	1
Albany, N. Y.	1		Nashville, Penn.	3	
Allentown, Pa.	2		Newark, N. J.	1	
Austin, Tex.	1		New London, Conn.	1	
Baltimore, Md.	3		New Orleans, La.	4	1
Berkeley, Cal.	1		New York, N. Y.	21	2
Birmingham, Ala.	12		Oakland, Cal.	1	
Boston, Mass.	5	1	Ogden, Utah	1	
Buffalo, N. Y.	1	1	Omaha, Nebr.		1
Butler, Pa.	1		Pasadena, Cal.	1	
Charleston, S. C.	2	1	Philadelphia, Pa.	24	1
Chicago, Ill.	5	2	Pittsburgh, Pa.	6	
Cincinnati, Ohio	1		Portland, Me.		1
Cleveland, Ohio.	1		Providence, R. I.	3	
Columbus, Ohio.	3		Quincy, Mass.	1	
Danville, Ill.	1		Reading, Pa.	2	
Dayton, Ohio.	1		St. Joseph, Mo.	1	
Denver, Colo.	1		St. Louis, Mo.	11	2
Detroit, Mich.	3	1	San Francisco, Cal.	2	
Duluth, Minn.	1		Salt Lake City, Utah	2	1
Evansville, Ind.	1		Sandusky, Ohio.	1	
Fall River, Mass.	7		Saginaw, Mich.	1	
Flint, Mich.	1		Savannah, Ga.	9	1
Galveston, Tex.	2		Seattle, Wash.	1	
Grand Rapids, Mich.	2		South Bend, Ind.		2
Haverhill, Mass.	1		Springfield, Ill.	1	
Indianapolis, Ind.	1		Springfield, Mass.	1	
Kalamazoo, Mich.	1		Superior, Wis.	2	
Kansas City, Kans.	1		Syracuse, N. Y.	2	
Kansas City, Mo.	1		Taunton, Mass.	1	
Knoxville, Tenn.	2		Toledo, Ohio.	4	
Lawrence, Mass.	1		Trenton, N. J.	2	1
Los Angeles, Cal.	2		Troy, N. Y.	1	
Lynchburg, Va.	10		Waltham, Mass.	1	
Madison, Wis.	1		Washington, D. C.	2	1
Memphis, Tenn.	1		Washington, Pa.	1	
Milwaukee, Wis.	1	2	Wilmington, Del.	1	1
Minneapolis, Minn.	1		Winston-Salem, N. C.	3	

## TYPHUS FEVER.

## Texas.

Senior Surg. Pierce reported that during the week ended June 9, 1917, no new case of typhus fever was reported to him from any point along the Texas-Mexico border, the last case of the disease occurring in Texas having been reported during the week ended April 28, 1917. Since July 1, 1916, 82 cases have been reported.

**TYPHUS FEVER—Continued.**

**Texas—Continued.**

During the week ended June 9, 1917, 65,746 persons were inspected by medical officers at ports of entry on the border. Of this number, 2,593 were disinfected for the destruction of vermin, 1,133 were vaccinated against smallpox, and 10 were refused admission because of illness.

**City Report for Week Ended June 9, 1917.**

During the week ended June 9, 1917, 1 case of typhus fever was reported in Austin, Tex.

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

**State Reports for May, 1917.**

State.	Cases reported.			State.	Cases reported.		
	Diphtheria.	Measles.	Scarlet fever.		Diphtheria.	Measles.	Scarlet fever.
Kansas.....	61	3,888	432	Montana.....	32	551	97
Louisiana.....	27	231	13	New Jersey.....	392	.....	556
Maine.....	24	228	9	Ohio.....	547	4,055	976
Michigan.....	475	2,785	1,234	Pennsylvania.....	1,081	5,811	860
Minnesota.....	334	2,130	308	Rhode Island.....	101	146	66
Mississippi.....	37	3,580	27	South Carolina.....	75	319	12

**Ohio Reports for February and March, 1917.**

During the month of February, 1917, 474 cases of diphtheria, 4,323 cases of measles, and 1,042 cases of scarlet fever were reported in Ohio; and during the month of March 548 cases of diphtheria, 5,763 cases of measles, and 1,273 cases of scarlet fever were reported in Ohio.

**City Reports for Week Ended June 9, 1917.**

City.	Popula- tion as of July 1, 1916. (Estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Tubercu- losis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.....	589,621	188	3	1	245	2	10	1	16	28
Boston, Mass.....	756,476	224	96	6	262	6	33	2	56	36
Chicago, Ill.....	2,497,722	705	160	22	712	10	315	16	313	91
Cleveland, Ohio.....	674,073	192	24	4	70	1	13	1	39	12
Detroit, Mich.....	571,784	239	75	9	19	2	87	7	22	26
Los Angeles, Cal.....	503,812	.....	6	.....	128	1	20	.....	37	12
New York, N. Y.....	5,602,841	1,397	297	28	1,994	31	151	.....	230	191
Philadelphia, Pa.....	1,709,518	539	70	6	309	2	38	1	73	61
Pittsburgh, Pa.....	579,090	190	21	1	188	3	16	.....	41	16
St. Louis, Mo.....	767,309	210	79	3	149	4	74	.....	50	21

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

**City Reports for Week Ended June 9, 1917—Continued.**

City.	Popula- tion as of July 1, 1916. (Estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 300,000 to 500,000 inhabit- ants:										
Buffalo, N. Y.	468,558	132	24	2	62		19	2	52	20
Cincinnati, Ohio.	410,476		10		28	2	6	1	35	23
Jersey City, N. J.	306,345	69	10		57	2	29	2	15	7
Milwaukee, Wis.	436,335	102	14	1	78		79	3	35	5
Minneapolis, Minn.	363,454		25		48		13			
Newark, N. J.	408,894	99	12		69		8		36	15
New Orleans, La.	371,747		3		1		2		35	22
San Francisco, Cal.	463,516	137	14	2	60	1	16		29	16
Seattle, Wash.	348,639	51			18		6		4	7
Washington, D. C.	363,980	113	4		163		10		15	11
From 200,000 to 300,000 inhabit- ants:										
Columbus, Ohio.	214,878	67	3		8		5		9	6
Denver, Colo.	260,800		8	1	53		5			12
Indianapolis, Ind.	271,708		11		132		17		11	
Kansas City, Mo.	297,847	82	10	1	44	1	47			13
Portland, Oreg.	285,463	46	6		8		8		4	5
Providence, R. I.	254,960	65	12		12	1	10			11
Rochester, N. Y.	256,417	78	2	1	144	6	29		18	5
From 100,000 to 200,000 inhabit- ants:										
Albany, N. Y.	104,199				49		6		8	
Birmingham, Ala.	181,762	74			39	2	1		12	2
Bridgeport, Conn.	121,579	43	8	2	16	2	5		4	4
Cambridge, Mass.	112,981	36	12		79	3	1		5	1
Camden, N. J.	106,233				24		1		3	
Dayton, Ohio.	127,224	41	1		55		17		8	3
Fall River, Mass.	128,366	35	7		64	3			19	2
Fort Worth, Tex.	104,562	22	1							2
Grand Rapids, Mich.	128,291	36	4		80		5		2	1
Hartford, Conn.	110,900	45	2		24		4		5	3
Lawrence, Mass.	100,560	29	1		2				4	3
Lowell, Mass.	113,245	27	11		1		2		1	6
Lynn, Mass.	102,425	18	2		14		2		5	2
Memphis, Tenn.	148,995	20	1		8		2		23	5
Nashville, Tenn.	117,057	43			3		1		3	6
New Bedford, Mass.	118,158	30	5		55		1		5	1
New Haven, Conn.	149,685		3		101	2			12	4
Oakland, Cal.	198,004	37	6		4		6			7
Omaha, Nebr.	165,470	40	2		61		36			4
Reading, Pa.	109,381	28	3				6		6	1
Richmond, Va.	156,687	55	1		13				1	7
Salt Lake City, Utah.	117,399	22	3		3		14			2
Springfield, Mass.	105,942	33	5	3			10		4	2
Syracuse, N. Y.	155,624	41	2		53		10	1	4	4
Toledo, Ohio.	191,554	59	3		61		26	1	19	8
Trenton, N. J.	111,593	41	5		7				3	2
Worcester, Mass.	163,314	58	2		14		4		9	5
From 50,000 to 100,000 inhabit- ants:										
Allentown, Pa.	63,505	14	1	1	1		5			
Altoona, Pa.	58,659		2		4		1		1	
Atlantic City, N. J.	57,660		2		43		3			
Bayonne, N. J.	69,893		1				1		3	
Berkeley, Cal.	57,653	15	2		3		3		1	1
Binghamton, N. Y.	53,973	18	1		22		3		3	
Brockton, Mass.	67,449	13	2		6		1		6	
Canton, Ohio.	60,852	14	1		2		2			1
Charleston, S. C.	60,734	16								
Covington, Ky.	57,144	10			5		1			
Duluth, Minn.	94,495	17	3	1	3					1
Elizabeth, N. J.	86,690	19	3	1	126		4		5	
El Paso, Tex.	63,705	53	1	1	8		2			
Erie, Pa.	75,195		3		57		3		11	9
Evansville, Ind.	76,078	18	3		9	1	2	1	8	4
Flint, Mich.	54,772	11			24		18	2		1
Ft. Wayne, Ind.	76,183	20	1		10		7			2
Harrisburg, Pa.	72,015	22	2		7		1		3	2

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

City Reports for Week Ended June 9, 1917—Continued.

City.	Population as of July 1, 1916. (Estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 50,000 to 100,000 inhabitants—Continued.										
Hoboken, N. J.	77,214	19	3	1	4		6		3	3
Johnstown, Pa.	68,529	22			34		2	1		2
Kansas City, Kans.	99,437		1		10		4			
Lancaster, Pa.	50,853				14				1	
Little Rock, Ark.	57,343	16			5					
Malden, Mass.	51,155	13	4	2	43					
Manchester, N. H.	78,283	24	1		12				5	5
Mobile, Ala.	58,221	25			5	1			1	4
New Britain, Conn.	53,794	15							1	
Norfolk, Va.	86,612	6			7					5
Oklahoma City, Okla.	92,943	12			5				3	2
Passaic, N. J.	71,744	11	1		7		1		2	1
Pawtucket, R. I.	59,411	23	1							4
Portland, Me.	63,867	15	3		10					
Rockford, Ill.	55,185	24	2		26		4	2	2	1
Sacramento, Cal.	66,895	24	2	1	5				4	3
Saginaw, Mich.	55,642	15	1		6		3			2
St. Joseph, Mo.	85,236	27	3		14		5		2	2
San Diego, Cal.	53,330	10			35		1			2
Savannah, Ga.	68,805	16			4				2	1
Schenectady, N. Y.	99,519	19			65	1	6		2	2
Sioux City, Iowa	57,078						11			
Somerville, Mass.	87,039	20	3		23		8		3	1
South Bend, Ind.	68,946	16			29	1	4		1	
Springfield, Ill.	61,120	20	1		8		1			5
Terre Haute, Ind.	66,083	14	1		18					
Troy, N. Y.	77,916		1		32		1		5	6
Wichita, Kans.	70,722				9		2			
Wilkes Barre, Pa.	76,776	16	7		23		2			
Wilmington, Del.	94,265	25	2		8		7		7	
York, Pa.	51,656								2	
From 25,000 to 50,000 inhabitants:										
Alameda, Cal.	27,732	6			8		5		1	
Austin, Tex.	34,814									8
Brookline, Mass.	32,780	3	1		8					
Butler, Pa.	27,632	3	3	1	4					
Butte, Mont.	43,425		1		5		4			
Chelsea, Mass.	46,192	12	1		18		1		4	1
Chicopee, Mass.	29,319	2	2		1				9	
Cumberland, Md.	26,074	3			7				1	
Danville, Ill.	32,261	8			12					
Davenport, Iowa.	48,811		2		7		1			
Dubuque, Iowa.	39,873		2						1	1
East Chicago, Ind.	28,743	5			16		1	1		
East Orange, N. J.	42,458	4			9		1			
Elgin, Ill.	28,203	7			1				1	1
Everett, Mass.	39,233	10	2		11		1		2	
Everett, Wash.	35,486	9	1	1	1					2
Galveston, Tex.	41,863	13	1							
Green Bay, Wis.	29,353	8								1
Hagerstown, Md.	25,679		2		3					
Haverhill, Mass.	48,477	16	3		2		3		4	1
Jackson, Mich.	35,363	16			33				4	4
Kalamazoo, Mich.	48,886	14			67		1			
Kenosha, Wis.	31,576	1	2		49		1		2	
Kingston, N. Y.	26,771	7			8					
Knoxville, Tenn.	38,676				1				1	
La Crosse, Wis.	31,677	10	1	1						
Lexington, Ky.	41,097	8			4				9	2
Lima, Ohio.	35,384	10			10		4			
Lincoln, Nebr.	46,515	9	1	1	16	1	10		1	1
Long Beach, Cal.	27,587	9			5					
Lorain, Ohio.	36,964		1				4			
Lynchburg, Va.	32,940	7	1		7				3	2
Madison, Wis.	30,699	1			4		11			
McKeesport, Pa.	47,521	12	1		1		2			
Medford, Mass.	26,284	5	1		21		1		1	
Montclair, N. J.	26,318	2	1		2		2		1	1



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

## **City Reports for Week Ended June 9, 1917—Continued.**

City.	Popula- tion as of July 1, 1916. (Estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabit- ants—Continued.										
Nashua, N. H.	27,327	10			11					
Newburgh, N. Y.	29,603	15			8					2
New Castle, Pa.	41,133		1				2		7	
Newport, Ky.	31,927	5	1							1
Newport, R. I.	30,108	14	1	1						
Newton, Mass.	43,715	4			25				1	2
Niagara Falls, N. Y.	37,353	15	1		44		3			1
Norristown, Pa.	31,401	5			3				1	2
Ogden, Utah	31,404	6	1		8		6	1		
Orange, N. J.	33,080	10	1		2				1	2
Pasadena, Cal.	46,450	6			9				1	
Perth Amboy, N. J.	41,185	11	3		1		1		2	
Pittsfield, Mass.	38,629	26			92	1			6	1
Portsmouth, Va.	39,651	13	1		6					
Quincy, Ill.	36,798	11	1		4		1			
Quincy, Mass.	38,136	6	3						2	
Racine, Wis.	46,486	2					1		2	
Roanoke, Va.	43,284	16			2					1
Rock Island, Ill.	28,926	10			7					
San Jose, Cal.	38,902		1		10		1		1	
Steubenville, Ohio	27,445	8					1			
Superior, Wis.	46,226	11								1
Taunton, Mass.	36,283	13							1	1
Waltham, Mass.	30,570	6	2		38				2	
West Hoboken, N. J.	43,139	8			23		3		1	
Wheeling, W. Va.	43,377	21								2
Williamsport, Pa.	33,809		5		7		1			
Wilmington, N. C.	29,892	12								1
Winston-Salem, N. C.	31,155	28			2	1				2
Zanesville, Ohio.	30,863	16			2		1		1	1
From 10,000 to 25,000 inhabit- ants:										
Alton, Ill.	22,874	2	2		4					
Ann Arbor, Mich.	15,010	12	2	1	37		1			
Beaver Falls, Pa.	13,532									
Berlin, N. H.	13,599	4								
Braddock, Pa.	21,685		1		6				2	
Cairo, Ill.	15,794	4								
Clinton, Mass.	13,075	4				1				1
Coffeyville, Kans.	17,548		1		5				1	
Concord, N. H.	22,669	17			28					
Galesburg, Ill.	24,276	12	1		13					1
Harrison, N. J.	16,950				15					
Kearny, N. J.	23,539	7			16		1			
Kokomo, Ind.	20,930	3	1		4		1		2	1
Long Branch, N. J.	15,395	1							1	
Marinette, Wis.	14,610	1								
Melrose, Mass.	17,445	4			11		1			
Morristown, N. J.	13,284	4			1				1	
Muscatine, Iowa.	17,500	1			1		2			1
Nanticoke, Pa.	23,126	4			1					
Newburyport, Mass.	15,243	3								
New London, Conn.	20,985	8	1		5					1
North Adams, Mass.	12,019	6			77					
Northampton, Mass.	19,926	9	2		11		3		2	3
Plainfield, N. J.	23,805	8								
Pontiac, Mich.	17,524				24		6			
Portsmouth, N. H.	11,666				7		2			
Rocky Mount, N. C.	12,067	6			1				1	
Rutland, Vt.	14,831	4			1					
Sandusky, Ohio	20,193	6			9					
Saratoga Springs, N. Y.	13,821	5							1	
Steelton, Pa.	15,548	4			1				1	
Washington, Pa.	21,618		2				1			
Woburn, Mass.	15,969	3								

<sup>1</sup> Population Apr. 15, 1910; no estimate made.

# FOREIGN.

## AUSTRALIA.

### Cerebrospinal Meningitis, 1916—State of Victoria.

During the year 1916, 754 cases of cerebrospinal meningitis with 326 deaths were notified in the State of Victoria, Australia. Of these, 397 cases occurred in the metropolitan district (population, 695,640), 216 cases in the rest of the State (population, 702,330), and 141 among the military. According to age periods the cases were distributed as follows:

Age period.	Cases.	Deaths.	Case fatality.	Age period.	Cases.	Deaths.	Case fatality.
Under 1 year.....	37	31	83	31 to 40 years.....	71	38	53
1 to 5 years.....	125	54	43	41 to 50 years.....	43	25	58
6 to 10 years.....	75	27	36	51 to 60 years.....	27	19	70
11 to 20 years.....	202	58	28	61 to 70 years.....	13	11	84
21 to 30 years.....	158	60	37	Over 70 years.....	3	3	100

The monthly incidence of cases was as follows:

Month.	Number of cases.	Month.	Number of cases.
January.....	18	July.....	114
February.....	12	August.....	114
March.....	36	September.....	89
April.....	26	October.....	37
May.....	101	November.....	35
June.....	148	December.....	24

## BRAZIL.

### Yellow Fever—Pernambuco.

A fatal case of yellow fever was reported at Pernambuco, Brazil, during the week ended April 21, 1917. The case occurred in a person recently arrived from Alagoas, Brazil.

## CHINA.

### Examination of Rats—Hongkong.

During the period from April 1 to May 5, 1917, 9,263 rats were examined at Hongkong. No plague infection was found. The last plague-infected rat at Hongkong was found during the week ended March 24, 1917.

**CHINA—Continued.****Examination of Rats—Shanghai.**

During the period from April 1 to May 5, 1917, 1,645 rats were examined at Shanghai. No plague infection was found. The last plague-infected rat at Shanghai was reported found May 6, 1916.

**GREAT BRITAIN.****Examination of Rats—Liverpool.**

During the period from April 8 to May 19, 1917, 1,182 rats were examined at Liverpool. No plague infection was found. The last plague-infected rat at Liverpool was reported found March 28, 1917.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.****Reports Received During the Week Ended June 29, 1917.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Apr. 8-14.....		38	
Madras.....	Apr. 15-21.....	2	2	
Rangoon.....	Mar. 25-Apr. 14.....	6	3	
Java:				
West Java.....				Apr. 20-26, 1917: Cases, 1.
Batavia.....	Apr. 20-26.....	1		

**PLAGUE.**

Brazil:				
Pernambuco.....	Jan.-June.....	1		In person from Garanhuns district.
China:				
Kwantung Province—				
Chaochowfu.....	May 6-12.....			Present.
Chaoyang district.....	do.....			Do.
India:				Apr. 8-14, 1917: Cases, 15,352; deaths, 13,214.
Bombay.....	Apr. 15-21.....	105	92	
Calcutta.....	Apr. 8-14.....		7	
Henzada.....	Mar. 25-31.....		7	
Karachi.....	Apr. 15-21.....	121	110	
Madras Presidency.....	do.....	143	88	
Mandalay.....	Apr. 1-7.....		1	
Rangoon.....	Mar. 25-Apr. 14.....	90	86	
Java:				
East Java.....	Apr. 9-15.....	3	3	At Surabaya City.
Mid-Java.....	Apr. 8-14.....	1	1	At Samarang.

**SMALLPOX.**

Canada:				
Yarmouth.....	June 3-9.....	1		
China:				
Mukden.....	May 6-19.....			Present.
Tsingtao.....	May 13-19.....	1		
Egypt:				
Cairo.....	Nov. 12-Dec. 31.....	8	3	
Port Said.....	do.....	3		
India:				
Bombay.....	Apr. 15-21.....	33	14	
Karachi.....	do.....	2		
Madras.....	do.....	29	6	
Rangoon.....	Mar. 25-Apr. 14.....	27	3	

<sup>1</sup> 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 the Week Ended June 29, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Kobe.....	May 21-27.....	23	2	
Osaka.....	May 16-25.....	57	31	
Yokohama.....	May 7-20.....	2		
Java:				
Mid-Java.....	Apr. 8-14.....	4	1	
West Java.....				Apr. 8-14, 1917: Cases, 8; deaths, 2.
Batavia.....	Apr. 8-14.....	1	1	
Russia:				
Petrograd.....	Mar. 18-Apr. 14.....	180		
Spain:				
Valencia.....	May 13-19.....	1		

## **TYPHUS FEVER.**

British Guiana:				
Georgetown.....	May 20-26.....		3	
Egypt:				
Cairo.....	Nov. 12-Dec. 31.....	30	7	
Port Said.....	Nov. 12-Dec. 31.....	6	3	
Java:				
East Java.....	Apr. 9-15.....	1	1	
Mid-Java.....				Apr. 8-14, 1917: Cases, 3; deaths, 1.
Samarang.....	Apr. 8-14.....	2		
West Java.....				Apr. 20-26, 1917: Cases, 9; deaths, 1.
Batavia.....	Apr. 20-26.....	6		
Russia:				
Petrograd.....	Mar. 18-Apr. 14.....	44		
Turkey in Asia:				
Adana.....	Apr. 8-14.....			Present.
Mersina.....	Apr. 8-14.....	2		
Tarsus.....	Apr. 8-14.....			Do.

## **YELLOW FEVER.**

Brazil:				
Pernambuco.....	Apr. 15-21.....	1	1	In person recently arrived from Alagoas, Brazil.

**Reports Received from Dec. 30, 1916, to June 29, 1917.**

## **CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China: <sup>1</sup>				
Hunan Province—				
Changteh.....				Epidemic in August, 1916. Outbreak with 72 cases reported Mar. 1, 1917.
Macao.....				
Chosen (Korea).....	Aug.-Dec. 29.....	1,998		
Germany:				
Marlenwerder.....	Jan. 21-27.....	3		Prisoners of war.
India:				
Bassein.....	Dec. 31-Mar. 31.....		51	
Bombay.....	Nov. 5-Dec. 23.....	13	12	
Do.....	Jan. 14-Feb. 10.....	7	6	
Calcutta.....	Oct. 8-Dec. 30.....		164	
Do.....	Dec. 31-Apr. 14.....		251	
Henzada.....	Feb. 18-24.....		1	
Madras.....	Nov. 5-Dec. 23.....	6		
Do.....	Dec. 31-Apr. 21.....	8	6	
Moumein.....	do.....		7	
Rangoon.....	Nov. 26-Dec. 30.....	5	6	
Do.....	Dec. 31-Apr. 14.....	19	13	

<sup>1</sup> On page 3540, Public Health Reports, Dec. 29, 1916, under heading "Remarks," the S. S. Taihei Maru appears in line with Canton, China. It should appear in line with Dairen, China.

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China.....				Apr. 1-June 30, 1916: Cases, 4,540; deaths, 2,999.
Do.....				July 1-Dec. 31, 1916: Cases, 2,984; deaths, 2,398. Jan. 1-31, 1917: Cases, 52; deaths, 29.
Provinces—				
Anam.....	Apr. 1-June 30.....	1,381	2,309	
Do.....	July 1-Dec. 31.....	700	544	
Do.....	Jan. 1-31.....	1		
Cambodia.....	May 1-June 30.....	47	13	
Do.....	July 1-Dec. 31.....	164	116	
Do.....	Jan. 1-31.....	10	9	
Cochin-China.....	Apr. 1-June 30.....	269	111	
Do.....	July 1-Dec. 31.....	123	111	
Do.....	Jan. 1-31.....	21	8	
Kwang-Tcheou-Wan.....	July 1-Nov. 30.....	271	264	
Laos.....	Apr. 1-June 30.....	102	57	
Do.....	July 1-Nov. 30.....	652	630	
Do.....	Jan. 1-31.....	20	12	
Tonkin.....	Apr. 1-June 30.....	2,780	1,385	
Do.....	July 1-Dec. 31.....	999	725	
Saigon.....	Dec. 25-31.....	4	3	
Do.....	Jan. 29-Apr. 22.....	18	12	
Japan:				
Fukuoka.....	Jan. 19.....	33		
Nagasaki.....	Nov. 27-Dec. 3.....	9	4	
Do.....	Feb. 19-25.....	1	1	
Osaka.....	Nov. 16-Dec. 25.....	23	57	Aug. 13-Dec. 25, 1916: Cases, 971; deaths, 754.
Do.....	Dec. 26-Jan. 25.....	10	10	Jan. 6-16, 1917: Cases, 9. Aug. 14, 1916-Jan. 25, 1917: Cases, 990; deaths, 641.
Taiwan Island—				
Keelung.....	Nov. 13-Dec. 23.....	5	7	
Do.....	Feb. 18-24.....		1	
Taihoku.....	Nov. 13-Dec. 23.....	14	5	
Tokyo.....	Jan. 23-Feb. 4.....	4		
Yokohama.....	Nov. 6-Dec. 3.....	5	3	
Districts.....	.....do.....	1	1	
Java:				
East Java.....	Oct. 14-17.....	5	3	
West Java.....				
Batavia.....	Nov. 17-Dec. 7.....	23	9	Nov. 17-Dec. 14, 1916: Cases, 135; deaths, 65. Jan. 26-Apr. 26, 1917: Cases, 9; deaths, 1.
Do.....	Jan. 26-Apr. 26.....	6	1	
Persia:				
Enzeli.....	Mar. 21-Sept. 9.....	74	37	
Kazvin.....	July 18-Sept. 19.....	107	65	
Mazanderan Province—				
Amol.....	Nov. 16.....			Epidemic.
Ferikenar.....	Nov. 30.....	8	8	
Recht.....	Mar. 21-Oct. 14.....	165	60	
Teheran.....	Aug. 3-Oct. 19.....	428	409	At 2 localities in vicinity: Cases 64; deaths, 38.
Philippine Islands:				
Manila.....	Oct. 29-Dec. 30.....	201	70	Not previously reported: Cases, 56; deaths, 2.
Do.....	Dec. 31-Apr. 28.....	15	8	Oct. 29-Dec. 9, 1916: Cases, 2,345; deaths, 1,492. Dec. 17-30, 1916: Cases, 282; deaths, 188. Dec. 31, 1916-May 12, 1917: Cases, 3,512; deaths, 1,873.
Provinces—				
Albay.....	Oct. 29-Dec. 9.....	246	147	
Do.....	Dec. 17-30.....	20	10	
Do.....	Dec. 31-May 12.....	226	147	
Antique.....	Nov. 18-25.....	8	7	
Do.....	Dec. 31-Mar. 24.....	161	98	
Bataan.....	Oct. 29-Dec. 9.....	93	77	
Do.....	Dec. 17-23.....	2	2	
Do.....	Dec. 31-Jan. 6.....	2	3	
Batangas.....	Oct. 29-Nov. 4.....	1	1	
Bohol.....	Oct. 29-Dec. 9.....	46	18	
Do.....	Dec. 17-23.....	1		
Do.....	Feb. 25-May 12.....	156	74	
Bulacan.....	Oct. 29-Dec. 9.....	96	67	
Do.....	Dec. 17-23.....	10	6	
Camarines.....	Oct. 29-Dec. 9.....	61	37	
Do.....	Apr. 28-May 12.....	19	8	
Capiz.....	Oct. 29-Dec. 9.....	45	34	
Do.....	Dec. 17-30.....	27	23	
Do.....	Dec. 31-Mar. 31.....	249	173	
Cavite.....	Oct. 29-Dec. 9.....	156	113	
Do.....	Dec. 17-30.....	24	13	
Do.....	Dec. 31-Feb. 10.....	45	33	
Cebu.....	Dec. 24-30.....	12	6	
Do.....	Jan. 7-May 5.....	192	113	

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands—Contd.</b>				
<b>Provinces—Continued.</b>				
Iloilo.....	Oct. 29-Dec. 9.....	237	148	
Do.....	Dec. 17-30.....	37	31	
Do.....	Dec. 31-Apr. 21.....	120	86	
Laguna.....	Nov. 2-25.....	12	10	
Leyte.....	Oct. 29-Dec. 9.....	157	98	
Do.....	Dec. 17-30.....	90	62	
Do.....	Dec. 31-Apr. 21.....	659	511	
Masbate.....	Dec. 17-23.....	8	2	
Mindanao.....	Jan. 14-Feb. 3.....	25	18	
Mindoro.....	Dec. 31-Feb. 3.....	8	7	
Misamis.....	Oct. 29-Dec. 9.....	126	79	
Do.....	Dec. 17-30.....	17	12	
Do.....	Dec. 31-Feb. 24.....	49	36	
Negros Occidental.....	Oct. 29-Dec. 9.....	919	553	
Do.....	Dec. 24-30.....	11	5	
Do.....	Jan. 7-Feb. 10.....	51	46	
Negros Oriental.....	Mar. 24-Apr. 21.....	33	20	
Pampanga.....	Dec. 3-9.....	4	3	
Do.....	Dec. 17-23.....	6	5	
Do.....	Dec. 31-Jan. 6.....	1	1	
Rizal.....	Oct. 29-Dec. 9.....	27	14	
Do.....	Dec. 17-30.....	4	.....	
Do.....	Dec. 31-Mar. 17.....	2	.....	
Romblon.....	Jan. 28-Mar. 17.....	38	26	
Samar.....	Nov. 5-18.....	13	10	
Do.....	Dec. 31-May 5.....	440	306	
Sorsogon.....	Oct. 29-Dec. 2.....	131	71	
Do.....	Dec. 17-23.....	1	2	
Do.....	Jan. 21-Apr. 23.....	285	128	
Tayabas.....	Nov. 11-18.....	1	1	
Do.....	Mar. 18-Apr. 7.....	46	31	
Zambales.....	Oct. 29-Dec. 2.....	5	4	
<b>Straits Settlements:</b>				
Penang.....	Mar. 11-17.....	1	1	
Singapore.....	Oct. 22-28.....	2	2	
Do.....	Jan. 7-Mar. 10.....	5	5	
<b>Turkey in Asia:</b>				
Aleppo.....	Dec. 9-15.....	.....	1	July-Dec. 31, 1916: Cases, 9,565; deaths, 4,909. Mar. 4-24, 1917: Cases, 32; deaths, 22.
Do.....	Jan. 15-Mar. 5.....	2	2	
Bagdad.....	Nov. 6-30.....	19	8	
Beirut.....	Dec. 7-12.....	2	1	
Panderma.....	Jan. 8-Mar. 13.....	3	1	
Rodosto.....	Jan. 18.....	1	1	
Tarsus.....	Nov. 7.....	1	1	
<b>Turkey in Europe:</b>				
Constantinople.....	Oct. 1-Nov. 17.....	8	1	
Do.....	Mar. 4-22.....	8	6	

## **PLAGUE.**

<b>Arabia:</b>				
Aden.....	Apr. 8-May 2.....	44	30	
<b>Brazil:</b>				
Bahia.....	Nov. 5-Dec. 16.....	15	9	Jan. 1-Nov. 11, 1916: Cases, 18;
Do.....	Jan. 7-May 5.....	14	12	deaths, 9.
Joazeiro.....	.....	.....	.....	June 1-Nov. 6, 1916: Cases, 67;
Pernambuco, State.....	Jan. 1-Apr. 27.....	43	40	deaths, 51.
Pernambuco.....	Jan.-June.....	1	.....	In the districts of Bom Conselho, Canhotinho, and Corrientes Garanhuns.
Ceylon:				In person from Garanhuns district.
Colombo.....	Oct. 28-Dec. 30.....	50	30	July 23-29, 1916: Cases, 9; deaths, 8.
Do.....	Dec. 31-Apr. 7.....	138	127	
<b>Chile:</b>				
Antofagasta.....	Mar. 1-31.....	10	.....	
Tacna.....	do.....	1	.....	
Tocopilla.....	Sept. 12.....	1	1	

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>China:</b>				
Amoy.....	Nov. 19-Dec. 2.....			Present.
Do.....	Feb. 18-Apr. 21.....			Present and in vicinity. May 6-12, 1917: Present.
Chaowowfu.....	Feb. 24.....			Present, 26 miles from Swatow.
Chaoyang district.....	May 6-12.....			Present.
Hongkong.....	Dec. 24-30.....	1	1	
Do.....	Jan. 21-Apr. 28.....	25	13	Present in vicinity, Jan. 21-Apr. 14, 1917.
Kansu Province—				
Taochow.....	Oct. 1-24.....		20	Pneumonic. Reported present in other localities of Province.
Nanking.....	Mar. 4-24.....			Present.
Ecuador.....				Sept. 1-Dec. 31, 1916: Cases, 353; deaths, 119.
Duran.....	Oct. 1-Dec. 31.....	2		
Guayaquil.....	Sept. 1-Dec. 31.....	347	116	Jan. 1-31, 1917: Cases, 106; deaths, 43.
Do.....	Jan. 1-31.....	104	43	
Milagro.....	Nov. 1-Dec. 31.....	2	1	
Naranjal.....	Jan. 1-31.....	1	1	
Nobol.....	Oct. 1-31.....	1	1	
Santa Rosa.....	Sept. 1-30.....	1	1	
Taura.....	Jan. 1-31.....	1		
<b>Egypt:</b>				
Alexandria.....	Nov. 12-Dec. 25.....	4	3	1 case on s. s. Proton, arrived Nov. 16, 1916, from Sidi Barani and Sollum.
Do.....	Feb. 1-Mar. 28.....	3	1	
Port Said.....	Dec. 11.....	1		
Do.....	Jan. 18-Apr. 22.....	14	9	
Provinces—				
Assiout.....	Mar. 8-Apr. 26.....	25	17	
Beni-Souef.....	Feb. 1.....	1		
Fayoum.....	Jan. 24-Apr. 25.....	33	15	
Girgeh.....	Mar. 27-Apr. 26.....	43	10	
Keneh.....	Mar. 20-Apr. 24.....	39	27	
Minieh.....	Jan. 25-Apr. 19.....	6	3	
<b>Gold Coast:</b>				
Akra.....	Apr. 4.....			Present.
<b>Greece:</b>				
Athens.....	Apr. 23.....	2		In military hospital.
<b>Hawaii:</b>				
Paaulo.....	Mar. 7.....	1	1	
<b>India:</b>				
Bassein.....	Oct. 22-Dec. 30.....		7	Oct. 15-Dec. 23, 1916: Cases, 89, 512; deaths, 67,068. Dec. 31, 1916-Apr. 14, 1917: Cases, 84,362; deaths, 70,101.
Do.....	Dec. 31-Mar. 31.....		131	
Bombay.....	Nov. 5-Dec. 30.....	73	59	Oct. 8-14, 1916: Cases, 13; deaths, 7. Received out of data. Original report lost on s. s. Arabia.
Do.....	Dec. 31-Apr. 21.....	857	658	
Calcutta.....	Mar. 4-Apr. 7.....		9	
Henzada.....	Feb. 18-Mar. 31.....		14	
Karachi.....	Oct. 29-Dec. 30.....	4	3	
Do.....	Dec. 31-Apr. 21.....	405	329	
Madras.....	Nov. 19-Dec. 30.....	7	5	Oct. 8-14, 1916: Case, 1; death, 1.
Do.....	Dec. 31-Mar. 17.....	81	51	
Madras Presidency.....	Nov. 5-Dec. 30.....	5,854	3,832	Oct. 8-14, 1916: Cases, 534; deaths, 353. Sept. 17-23, 1916: Cases, 429; deaths, 280.
Do.....	Dec. 31-Apr. 21.....	7,249	4,939	
Mandalay.....	Oct. 23-Dec. 30.....		3	
Do.....	Feb. 4-Apr. 7.....		22	
Mergui.....	Mar. 11-17.....		7	
Moulmein.....	Dec. 3-9.....		1	
Do.....	Feb. 4-Mar. 31.....		28	
Myingyan.....	Mar. 4-17.....		7	
Prome.....	Oct. 22-Dec. 30.....		177	
Do.....	Dec. 31-Mar. 17.....		108	
Rangoon.....	Oct. 28-Dec. 30.....	43	39	Oct. 1-7, 1916: Cases, 9; deaths, 9.
Do.....	Dec. 31-Apr. 14.....	450	421	
Toungoo.....	Oct. 22-Dec. 30.....		12	
Do.....	Dec. 31-Mar. 17.....		45	
<b>Indo-China:</b>				
Provinces—				Apr. 1-June 30, 1916: Cases, 325; deaths, 148. July 1-Dec. 31, 1916: Cases, 230; deaths, 142.
Anam.....	Apr. 1-June 30.....	142	83	
Do.....	July 1-Dec. 31.....	75	49	Jan. 1-31, 1917: Cases, 82; deaths, 66.
Do.....	Jan. 1-31.....	29	18	
Cambodia.....	Apr. 1-June 30.....	43	41	
Do.....	July 1-Dec. 31.....	57	54	
Do.....	Jan. 1-31.....	37	33	

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Indo-China—Continued.</b>				
<b>Provinces—Continued.</b>				
Cochin-China.....	Apr. 1-June 30....	135	63	
Do.....	July 1-Nov. 30....	58	22	
Do.....	Jan. 1-31.....	14	13	
Kwang-Tcheou-Wan....	July 1-Nov. 30....	29	8	
Do.....	Jan. 1-31.....	2	2	
Tonkin.....	Oct. 1-31.....	2	—	
Saigon.....	Nov. 6-Dec. 17....	9	3	
Do.....	Jan. 1-Apr. 21....	60	35	
<b>Japan:</b>				
Nagoya.....	Dec. 10-16.....	2	—	
<b>Taiwan Island—</b>				
Shirin.....	Feb. 18-24.....	1	1	3 miles from Taihoku.
Tansui.....	Feb. 15-Apr. 4....	5	5	
Yokkaichi.....	Nov. 12-Dec. 16....	32	12	
Do.....	Apr. 24-30.....	1	1	
<b>Java:</b>				
<b>East Java.</b>				
Djocjakarta Residency..	Nov. 4-Dec. 31....	2	2	Aug. 26-Dec. 31, 1916: Cases, 133; deaths, 116. Jan. 1-Apr. 15, 1917: Cases, 122; deaths, 117.
Do.....	Jan. 1-Mar. 25....	6	6	
Kediri Residency.....	Aug. 26-Dec. 31....	20	18	
Do.....	Jan. 1-Mar. 25....	5	5	
Madura Residency.....	Aug. 26-Dec. 31....	8	8	
Do.....	Jan. 1-Mar. 25....	28	28	
Paseroean Residency....	Aug. 26-Dec. 31....	3	3	
Do.....	Jan. 1-31.....	1	1	
Samarang Residency....	Dec. 2-31.....	6	6	
Do.....	Jan. 1-Mar. 25....	15	15	
Surabaya Residency....	Aug. 26-Dec. 31....	49	49	
Do.....	Jan. 15-Mar. 25....	50	46	
Surakarta Residency....	Aug. 26-Dec. 31....	28	28	
Do.....	Jan. 29-Mar. 25....	11	11	
<b>Mid-Java—</b>				
Samarang.....	Aug. 26-Dec. 31....	1	1	
Do.....	Jan. 1-Apr. 14....	5	5	
<b>Mauritius.</b>				
Do.....	Dec. 9-Feb. 3....	20	11	District of Port Louis.
<b>Peru</b>				
<b>Department—</b>				
Ancachs.....	Jan. 1-June 30....	57	21	Jan. 1-May 15, 1917: cases, 221; deaths, 116. Jan. 1-June 30, 1916: Cases, 360; deaths, 191. July 1-Dec. 31, 1916: Cases, 150; deaths, 77.
Do.....	July 1-Dec. 31....	5	1	
Do.....	Feb. 16-May 15....	3	—	
Casma.....	Jan. 1-May 15....	6	—	Casma and Chimbote.
Arequipa.....	Jan. 1-June 30....	23	18	
Do.....	July 1-Dec. 31....	1	1	
Do.....	Feb. 16-May 15....	29	—	At Mollendo.
Cajamarca.....	do.....	2	—	
Lambayeque.....	Jan. 1-June 30....	84	32	
Do.....	July 1-Dec. 31....	6	2	
Do.....	Feb. 16-May 15....	5	—	At Chiclayo, Chongollape, and in country.
Chiclayo.....	Jan. 1-15.....	2	—	
Libertad.....	Jan. 1-June 30....	54	36	
Do.....	July 1-Dec. 31....	75	40	
Do.....	Jan. 1-May 15....	117	—	
Lima.....	Jan. 1-June 30....	45	19	Occurring in Ascope, Chepen, Chocope, Guadalupe, Moche, Pacasmayo, Salaverry, San Pedro, Trujillo (city and country), and Viru.
Do.....	July 1-Dec. 31....	40	18	
Do.....	Feb. 16-May 15....	22	—	
Callao Province.....	Jan. 1-June 30....	36	20	
Do.....	July 1-Dec. 31....	4	2	
Do.....	Jan. 1-May 15....	16	—	In Callao City.
Lima.....	do.....	31	—	City and country.
Piura.....	Jan. 1-June 30....	561	45	
Do.....	July 1-Dec. 31....	17	13	
Do.....	Feb. 16-May 15....	4	—	At Catacaos and Piura.
Catacaos.....	Jan. 1-Feb. 15....	11	—	
<b>Siam:</b>				
Bangkok.....	Oct. 22-Dec. 30....	12	10	
Do.....	Jan. 14-Apr. 21....	41	37	
<b>Straits Settlements:</b>				
Penang.....	Jan. 28-Feb. 24....	3	2	
Singapore.....	Oct. 22-Dec. 30....	7	7	
Do.....	Dec. 31-Apr. 28....	26	23	



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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Union of South Africa:</b>				
Cape of Good Hope State—				
Uitenhage district.....	Oct. 31-Nov. 12...	2	2	Total, Oct. 23-Nov. 12, 1916: Cases, 24; deaths, 13.
Orange Free State—				
Odendaalsrust.....	Apr. 9-15.....	1	1	Village.
Winburg district.....	Feb. 5-Mar. 18.....	16	8	On 5 farms.
Transvaal—				
Potchefstroom district..	Dec. 21-Jan. 21.....	12	12	On 2 adjoining farms.
<b>On vessel:</b>				
S. s. Sardinia.....	Apr. 27-May 2.....	5	3	At sea. From Australian and Oriental ports. Two cases plague landed port of London, England.

## **SMALLPOX.**

<b>Australia:</b>				
New South Wales—				
Coonamble.....	Dec. 8.....	1	1	
Do.....	Apr. 13-20.....	12	12	
Wagga.....	Apr. 2.....	1	1	
<b>Queensland—</b>				
Thursday Island, quar- antine station.	Feb. 8.....	1	1	On s. s. St. Albans from Kobe via Hongkong. Vessel proceeded in quarantine to Townsville, Brisbane, and Sydney, arriving Feb. 16. Released Feb. 23.
Do.....	Apr. 8.....	1	1	On s. s. Eastern from Kobe via Hongkong. Vessel proceeded in quarantine to Townsville, Brisbane, and Sydney.
<b>Austria-Hungary:</b>				
Austria—				
Prague.....	Jan. 21-27.....	1	1	
Vienna.....	Nov. 12-Dec. 9.....	8	8	
Do.....	Feb. 11-Mar. 24.....	4	4	
Hungary—				
Budapest.....	Nov. 5-Dec. 23.....	73	2	
Do.....	Dec. 31-Mar. 31.....	96	12	
<b>Brazil:</b>				
Bahia.....	Nov. 12-Dec. 23.....	5	5	
Do.....	Jan. 7-Mar. 17.....	9	9	
Rio de Janeiro.....	Nov. 12-Dec. 30.....	50	12	
Do.....	Dec. 31-May 5.....	193	50	
<b>Canada:</b>				
Alberta—				
Lethbridge.....	Feb. 1-28.....	2	2	
British Columbia—				
Vancouver.....	Feb. 18-Apr. 7.....	2	2	
Victoria.....	Feb. 11-17.....	1	1	
Manitoba—				
Winnipeg.....	Feb. 11-Apr. 7.....	6	6	
Nova Scotia—				
Yarmouth.....	June 3-9.....	1	1	
Ontario—				
Kingston.....	Mar. 11-17.....	1	1	
Sarnia.....	Jan. 28-Feb. 10.....	3	3	
Toronto.....	Jan. 28-Mar. 31.....	6	6	
Canary Islands:				
Las Palmas.....	Feb. 25-Mar. 3.....	1	1	On American vessel.
Ceylon:				
Colombo.....	Dec. 31-Feb. 17.....	2	2	
<b>China:</b>				
Amoy.....	Oct. 31-Dec. 9.....			Present. Dec. 10-16, 1916: Cases, 3.
Do.....	Feb. 11-May 5.....			Present and in vicinity.
Antung.....	Jan. 8-14.....	2	1	
Canton.....	Nov. 1-Dec. 20.....		14	
Changsha.....	Mar. 11-Apr. 21.....	13	13	
Chungking.....	Oct. 28-Dec. 30.....			Present.
Do.....	Dec. 31-Apr. 28.....			Do.
Dairen.....	Nov. 5-Dec. 30.....	63	8	
Do.....	Dec. 31-May 12.....	84	21	In vicinity. Jan. 14-20, 1917, case.

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>China—Continued.</b>				
Foochow.....	Oct. 29-Dec. 16....	.....	.....	Present.
Do.....	Feb. 18-Mar. 24....	.....	.....	Do.
Harbin.....	Nov. 6-Dec. 17....	3	.....	
Do.....	Jan. 2-Mar. 11....	2	.....	
Hongkong.....	Oct. 28-Dec. 30....	349	243	
Do.....	Dec. 31-Apr. 21....	520	434	Present in vicinity.
Kwangtung Province— Chaoyang district.....	Jan. 21-27.....	.....	.....	Present. Vicinity of Swatow.
Manchuria Station.....	Jan. 8-Feb. 25....	4	.....	On Chinese Railway.
Mukden.....	Dec. 9-30.....	.....	.....	Present.
Do.....	Dec. 31-May 19....	.....	.....	Do.
Nanking.....	Nov. 12-25.....	.....	.....	Do.
Shanghai.....	Jan. 28-May 12....	15	20	Deaths among native population.
Tientsin.....	Dec. 17-30.....	1	1	
Do.....	Jan. 28-Apr. 28....	2	.....	
Tsingtao.....	Dec. 1-9.....	3	.....	
Do.....	Dec. 28-May 19....	84	4	
Colombia:				
Espinal.....	Feb. 17.....	.....	.....	Present. Suburb of Cartagena.
Cuba:				
Casa Blanca.....	Jan. 12.....	1	.....	Vicinity of Habana. Case landed Jan. 1, 1917, from s. s. Alfonso XII, from Santander, Spain.
Encrucijada.....	Jan. 10.....	1	.....	In Santa Clara Province. Case landed from s. s. Montevideo, from Barcelona via Las Palmas, Canary Islands, and Porto Rico; arrived at Habana Jan. 6, 1917.
Guanabacoa.....	Jan. 9.....	1	.....	Vicinity of Habana. Case landed from s. s. Montevideo.
Habana.....	Jan. 10-20.....	2	.....	At Mariel quarantine station from s. s. Montevideo.
Ecuador:				
Guayaquil.....	Nov. 1-30.....	10	1	
Egypt:				
Alexandria.....	Dec. 25-31.....	.....	3	
Do.....	Jan. 8-Apr. 29....	39	18	
Cairo.....	June 11-July 1....	50	20	
Do.....	July 2-Dec. 31....	69	23	
Port Said.....	June 11-17.....	1	1	
Do.....	Aug. 20-Dec. 31....	5	1	
France:				
Marseille.....	Oct. 1-Dec. 31....	.....	16	
Do.....	Feb. 1-Mar. 31....	.....	4	
Paris.....	Dec. 17-23.....	1	.....	
Do.....	Jan. 14-20.....	.....	1	
Germany.....	Dec. 17-Jan. 13....	150	.....	Lübeck, Hamburg, and the district of Lüneburg.
Do.....	Jan. 21-Feb. 17....	369	.....	12 cities and 16 districts and States.
Do.....	Feb. 18-Mar. 10....	375	.....	8 cities and 22 districts and States.
Barnitz.....	Jan. 7-13.....	1	.....	
Bevensen.....	do.....	1	.....	
Bomlitz.....	do.....	2	.....	
Bremen.....	Dec. 31-Jan. 27....	3	.....	
Celle.....	Jan. 7-13.....	1	.....	
Danenberg.....	do.....	1	.....	
Dendorf.....	do.....	1	.....	
Egestorf.....	do.....	1	.....	
Geesthacht.....	do.....	2	.....	
Gosewerder.....	do.....	2	.....	
Hamburg district.....	Dec. 31-Jan. 20....	71	.....	
Harburg.....	Jan. 7-13.....	1	.....	
Husum.....	do.....	1	.....	
Lubeck.....	do.....	8	.....	
Reinfeld.....	do.....	1	.....	
Soltau.....	do.....	1	.....	
Undelos.....	do.....	1	.....	
Winsen.....	do.....	1	.....	
Great Britain:				
Liverpool.....	Feb. 4-Mar. 3.....	3	1	
Greece:				
Athens.....	Jan. 1-Mar. 5.....	.....	6	
Tripolis.....	May 12.....	.....	.....	Outbreak.

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Guatemala:				
Guatemala City.....	May 6-12.....			Present.
Hawaii:				
Honolulu.....	Jan. 9.....	1		From s. s. Tenyo Maru from oriental ports.
Do.....	Jan. 24.....	1		From s. s. Ecuador from Hong-kong.
India:				
Bombay.....	Dec. 10-30.....	5	1	Oct. 8-14, 1916: Cases, 3; deaths, 3. Received out of date. Original report lost on s. s. Arabia.
Do.....	Dec. 31-Apr. 21.....	243	113	
Calcutta.....	Nov. 5-Dec. 2.....		2	
Do.....	Feb. 13-Mar. 24.....		3	
Karachi.....	Dec. 31-Apr. 21.....	8	1	
Madras.....	Nov. 5-Dec. 30.....	35	19	
Do.....	Dec. 31-Apr. 21.....	445	104	
Moulmein.....	Oct. 23-Nov. 14.....		4	
Rangoon.....	Oct. 23-Dec. 30.....	17	1	
Do.....	Dec. 31-Apr. 14.....	102	9	
Indo-China:				
Provinces.....				Apr. 1-June 30, 1916: Cases, 331; deaths, 23. July 1-Dec. 31, 1916: Cases, 503; deaths, 194. Jan. 1-31, 1917: Cases, 174; deaths, 37.
Anam.....	Apr. 1-June 30.....	45	8	
Do.....	July 1-Dec. 31.....	114	43	
Do.....	Jan. 1-31.....	22	2	
Cambodia.....	Apr. 1-June 30.....	36	11	
Do.....	July 1-Dec. 31.....	24	10	
Do.....	Jan. 1-31.....	14	6	
Cochin-China.....	Apr. 1-June 30.....	44	5	
Do.....	July 1-Dec. 31.....	336	99	
Do.....	Jan. 1-31.....	110	29	
Laos.....	Aug. 1-Oct. 31.....	39	16	
Tonkin.....	Apr. 1-June 30.....	215	4	
Do.....	July 1-Dec. 31.....	69	25	
Do.....	Jan. 1-31.....	28		
Saigon.....	Nov. 6-Dec. 31.....	28	7	
Do.....	Jan. 1-Apr. 22.....	456	111	
Italy:				
Turin.....	Feb. 19-May 6.....	53	10	Mainly Roumanian refugees.
Jamaica:				
Kingston.....	May 6-12.....	1		
Japan:				
Ehime.....	Jan.-Feb.....			Present.
Hyogo.....	do.....			Do.
Kagawa.....	do.....			Do.
Kobe.....	Nov. 23-Dec. 10.....	4	1	
Do.....	Jan. 1-May 27.....	258	68	
Kochi.....	Jan.-Feb.....			Do.
Ozaka.....	Jan. 22-May 25.....	688	163	
Taiwan Island—				
Tamsui.....	Mar. 29-Apr. 4.....	1		
Yokkaichi.....	Apr. 1-14.....	3	1	
Java:				
East Java.....				Sept. 16-Dec. 31, 1916: Cases, 92; deaths, 2. Jan. 8-Apr. 1, 1917: Cases, 35; death, 1.
Surabaya.....	Nov. 4-10.....	1		
Mid-Java.....				Sept. 16-Dec. 29, 1916: Cases, 227; deaths, 24. Jan. 6-Apr. 14, 1917: Cases, 147; deaths, 15.
Samarang.....	Nov. 4-10.....	3		
West Java.....				Sept. 29-Dec. 28, 1916: Cases, 408; deaths, 63. Jan. 19-Apr. 14, 1917: Cases, 206; deaths, 37.
Batavia.....	Sept. 29-Dec. 28.....	54	9	
Do.....	Dec. 29-Apr. 14.....	38	7	
Mexico:				
Coatepec.....	Apr. 18.....			Epidemic, 6 miles from Jalapa.
Durango.....	Feb. 17.....			Present; also in vicinity.
Jalapa.....	Apr. 18.....			Prevalent.
Mexico City.....	Dec. 10-30.....	20		
Do.....	Dec. 31-May 26.....	370		
Monterey.....	Mar. 12-Apr. 29.....		6	
Nuevo Laredo.....	Dec. 10-30.....	1		
Progreso.....	Apr. 7.....	1	1	
Vera Cruz.....	Feb. 18-May 19.....	9		
New Zealand:				
Auckland.....	Feb. 4-10.....	4		

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Norway:				
Trondhjem.....	Jan. 1-31.....	2		
Philippine Islands:				
Manila.....				Varioloid. July 2-Dec. 30, 1916: Cases, 14. Jan. 21-May 12, 1917: Cases, 100.
Portugal:				
Lisbon.....	Nov. 19-Dec. 28.....	6		
Portuguese East Africa:				
Lourenço Marques.....	Sept. 1-30.....		1	
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	6	1	
Do.....	Jan. 1-Apr. 28.....	96	15	
Moscow.....	Oct. 16-Dec. 31.....	139	49	Nov. 13-25, 1916: Cases, 35; deaths, 8.
Do.....	Jan. 1-Feb. 11.....	173	47	
Petrograd.....	Oct. 8-Dec. 30.....	180	65	
Do.....	Dec. 31-Apr. 14.....	366	73	
Poland.....				Oct. 1-Dec. 2, 1916: Cases, 38; Mar. 4-20, 1916: Cases, 65 deaths, 7.
Warsaw.....	Oct. 1-Dec. 2.....	25		
Do.....	Jan. 9-Feb. 12.....	39	4	
Riga.....	Dec. 1-31.....	1		
Do.....	Jan. 1-Apr. 14.....	5		
Vladivostok.....	Jan. 22-Apr. 2.....	28	11	
Siam:				
Bangkok.....	Mar. 4-Apr. 14.....	2	1	
Spain:				
Bilbao.....	Jan. 1-31.....		2	
Cadiz.....	Nov. 1-Dec. 31.....		3	
Madrid.....	do.....		144	Jan. 1-Dec. 31, 1916: Deaths, 405.
Do.....	Jan. 1-Apr. 30.....		48	
Malaga.....	Sept. 1-Nov. 30.....		15	
Seville.....	Nov. 1-30.....		22	
Do.....	Jan. 1-Apr. 30.....		26	
Valencia.....	Nov. 19-Dec. 23.....	5	1	
Do.....	Jan. 14-May 19.....	17		
Straits Settlements:				
Penang.....	Oct. 28-Dec. 30.....	16	3	
Do.....	Dec. 31-Mar. 17.....	33	5	
Singapore.....	Nov. 19-Dec. 30.....	3	2	
Do.....	Jan. 7-Apr. 21.....	5	2	
Sweden:				
Goteborg.....	Jan. 28-Feb. 3.....		1	
Stockholm.....	Mar. 18-31.....	2		
Switzerland:				
Basel.....	Nov. 5-11.....	1		
Do.....	Dec. 31-Mar. 24.....	30		
Tunisia:				
Tunis.....	Nov. 25-Dec. 15.....	51	27	
Do.....	Dec. 30-May 18.....	78	51	
Turkey in Asia:				
Trebizond.....	Nov. 11-Dec. 30.....	1	1	
Do.....	Dec. 31-Feb. 24.....		20	
Union of South Africa:				
Johannesburg.....	Sept. 10-Dec. 30.....	45		
Do.....	Dec. 31-Mar. 10.....	22		
Uruguay:				
Montevideo.....	Feb. 1-28.....	1	1	
Venezuela:				
Maracaibo.....	Feb. 1-Apr. 21.....		22	
On vessel:				
S. S. Nippon Maru.....	Jan. 22.....	2		Landed at Yokohama quaran- tine.
Do.....	Jan. 24-Feb. 3.....	9	3	En route to Honolulu. Vessel from oriental ports.

## **TYPHUS FEVER.**

Algeria:				
Algiers.....	Feb. 1-Apr. 30.....	7	4	
Argentina:				
Rosario.....	Nov. 1-30.....		1	
Austria-Hungary:				
Austria:				July 23-Oct. 21, 1916: Cases, 1,685.
Prague.....	Jan. 28-Mar. 10.....	5		
Vienna.....	Nov. 5-Dec. 30.....	21	2	
Do.....	Dec. 31-Mar. 24.....	38	1	

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary—Continued.				
Bosnia-Herzegovina.				July 23-Oct. 22, 1916: Cases, 22.
Hungary.				Nov. 20-Dec. 17, 1916: Cases, 36.
Budapest.	Nov. 5-Dec. 30.	3	1	Dec. 23, 1916-Feb. 11, 1917: Cases, 180.
Do.	Jan. 14-Mar. 31.	94	45	
Belgium:				
Ghent.	Oct. 29-Nov. 4.		1	
Liège.	do.		1	
Do.	Jan. 28-Feb. 3.		1	
British Guiana:				
Georgetown.	May 20-26.		2	
Canada:				
Ontario—				
Ottawa.	Apr. 9-15.		1	
China:				
Antung.	Nov. 27-Dec. 10.	8		
Do.	Jan. 15-21.	2		
Hankow.	Nov. 12-18.	1		
Wientsin.	Oct. 29-Nov. 4.	1		
Tientsin.	Dec. 28-Apr. 22.	10		
Cuba:				
Santiago.	Dec. 7-13.	1	1	
Egypt:				
Alexandria.	Nov. 12-Dec. 31.	33	12	
Do.	Jan. 1-Apr. 29.	1,574	387	
Cairo.	June 11-July 1.	225	142	
Do.	July 2-Dec. 31.	330	139	
Port Said.	June 11-17.	20	9	
Do.	July 2-Dec. 31.	16	11	
Germany:				
Berlin.	Oct. 15-Dec. 23.		7	
Bremen.	Oct. 22-Dec. 30.	1	3	
Do.	Dec. 31-Jan. 27.	1	3	
Brunswick.	Jan. 21-Feb. 17.	1		
Erfurt.	do.	1		
Frankfort-on-Main.	Nov. 12-18.		1	
Greifswald.	Feb. 18-Mar. 10.	1		
Königsberg.	Nov. 12-Dec. 23.	5	5	
Do.	Dec. 31-Feb. 17.	6	2	
Marienwerder district.	Dec. 3-9.	1		Prison camp.
Marienwerder.				
Posen.	Feb. 18-Mar. 10.	19		
Potsdam.				
Merseburg.	Jan. 21-Feb. 17.	4		
Neidenburg.	Oct. 29-Nov. 18.	7		
Nuremberg.	Oct. 29-Nov. 11.	3		
Potsdam.	Jan. 7-13.	2		
Ruhleben.	Feb. 18-Mar. 10.	6		
Stettin.	Jan. 21-27.		1	
Great Britain:				
Belfast.	Mar. 11-May 12.	37	3	
Cork.	Jan. 7-Feb. 3.	1		
Glasgow.	Dec. 3-30.	4		
Do.	Jan. 7-13.		1	
Greece:				
Saloniki.	Nov. 7-Dec. 25.		26	
Do.	Dec. 26-May 5.		44	
Italy:				
Bari Province—				
Corato.	Mar. 5-11.	5		
Java:				
East Java.				Sept. 16-Dec. 16, 1916: Cases, 10; Jan. 8-Apr. 15, 1917: Cases, 22; deaths, 4.
Mid-Java.				Sept. 16-Dec. 29, 1916: Cases, 87; deaths, 7. Jan. 7-Apr. 14, 1917: Cases, 70; deaths, 7.
Samarang.	Nov. 4-Dec. 1.	10		
Do.	Apr. 8-14.	2		
West Java.				Sept. 29-Dec. 28, 1916: Cases, 185; deaths, 13. Jan. 19-Apr. 26, 1917: Cases, 107; deaths, 6.
Batavia.	Sept. 29-Dec. 28.	139	12	
Do.	Jan. 19-Apr. 26.	81	3	
Mexico:				
Aguascalientes.	Dec. 22.			Epidemic.
Ciudad Juarez.				July, 1916-Feb. 5, 1917: Cases, 100 (estimated).
Durango.	Dec. 12.			Present.
Do.	Jan.-Feb.			Present. Estimated deaths

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

**Reports Received from Dec. 30, 1916, to June 29, 1917—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Mexico City.....	Dec. 3-30.....	835	.....	daily, about 25. Present
Do.....	Dec. 31-May 19.....	2,660	.....	throughout year 1916.
Monterey.....	Apr. 2-8.....	.....	1	
Nuevo Laredo.....	Dec. 10-16.....	4	.....	July 1-Dec. 16, 1916: Cases, 28.
Netherlands:				
Amsterdam.....	Feb. 25-Mar. 3.....	2	.....	
Rotterdam.....	Nov. 26-Dec. 30.....	8	.....	
Do.....	Feb. 4-10.....	1	.....	
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	29	9	
Do.....	Jan. 1-Apr. 28.....	78	24	
Moscow.....	Oct. 16-Dec. 31.....	127	17	
Do.....	Jan. 1-Feb. 11.....	141	19	
Petrograd.....	Oct. 8-Dec. 30.....	155	44	
Do.....	Dec. 31-Mar. 17.....	137	38	
Poland:				
Lodz.....	Oct. 1-Dec. 2.....	201	20	Oct. 1-Dec. 2, 1916: Cases, 1,538; deaths, 119. In invaded regions.
Warsaw.....	do.....	611	36	Mar. 4-May 29, 1916: Cases, 830; deaths, 80.
Do.....	Jan. 9-Feb. 12.....	497	27	
Riga.....	Apr. 8-14.....	1	.....	
Vladivostok.....	Jan. 22-Mar. 31.....	5	.....	
Spain:				
Madrid.....	Nov. 1-Dec. 31.....	.....	3	Jan. 1-Dec. 31, 1916: Deaths, 35.
Do.....	Jan. 1-Apr. 30.....	.....	5	
Straits Settlements:				
Penang.....	Feb. 25-Mar. 3.....	1	.....	
Sweden:				
Stockholm.....	Nov. 28-Dec. 4.....	1	.....	
Do.....	Dec. 31-Jan. 6.....	3	.....	
Switzerland:				
Basel.....	Feb. 18-24.....	1	.....	
Zurich.....	Dec. 3-9.....	1	.....	
Do.....	Jan. 1-Mar. 17.....	4	.....	
Trinidad:	Apr. 22-28.....	4	3	
Tunisia:				
Tunis.....	Dec. 16-22.....	1	.....	
Turkey in Asia.....				Feb. 7, 1917: 54 cases reported in army of the Orient. Present.
Adana.....	Apr. 8-14.....	.....	.....	
Haifa.....	Oct. 16-22.....	1	.....	
Mersina.....	Apr. 8-14.....	2	.....	
Tarsus.....	do.....	.....	.....	Do.
Trebizond.....	Dec. 17-30.....	3	3	
Do.....	Dec. 31-Feb. 24.....	.....	7	
Venezuela:				
Maracaibo.....	Apr. 15-May 19.....	.....	3	

## **YELLOW FEVER.**

Brazil:				
Espirito Santo, State.....	Jan. 27-Feb. 26.....	18	4	
Pernambuco.....	Apr. 15-21.....	1	1	
Ecuador:				
Babahoyo.....	Nov. 1-30.....	1	1	
Chobo.....	do.....	1	.....	
Duran.....	Oct. 1-31.....	1	.....	
Guayaquil.....	Sept. 1-Dec. 31.....	46	24	
Do.....	Jan. 1-30.....	17	7	
Milagro.....	(Sept. 1-31.....	1	.....	
Do.....	Oct. 1-31.....	2	1	
Do.....	Jan. 1-31.....	1	.....	
Gold Coast.....				In 1915: Cases, 2; deaths, 2—European and native.