

PUBLIC HEALTH REPORTS.

UNITED STATES.

[Reports to the Surgeon-General, Public Health and Marine-Hospital Service.]

THE PREVALENCE OF PELLAGRA IN THE UNITED STATES—A STATISTICAL AND GEOGRAPHICAL NOTE, WITH BIBLIOGRAPHY.

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Forty-five years ago 2 cases of probable pellagra with mental symptoms were reported by Doctor Gray, of Utica, N. Y., and Doctor Tyler, of Somerville, Mass., at the annual meeting of American Asylum Physicians, held in Washington, D. C. Exclusive of 1 case reported by Dr. H. F. Harris, of Georgia, and 1 by Dr. S. Sherwell, of Chicago, in 1902, the disease has since 1864 till recently, 1906–7, either disappeared or been overlooked, or, which is more likely, the physician when first studying one of these puzzling cases and inclining to the diagnosis of pellagra has accepted too readily the assertion of all authorities that pellagra does not exist in the United States, and has therefore given another name to his case (see final note), although his professional conscience may never have been satisfied.

In spite of authoritative denial of the existence of pellagra in this country, a number of cases of the disease were recognized and reported in 1907 independently by medical officers of Alabama and South Carolina asylums. In the summer of 1908 the disease was identified with Italian pellagra by two South Carolina physicians who visited Italy for the purpose of studying the disease. Following these observations, pellagra has been observed in many different localities, such as Wilmington, Morganton, and Charlotte, N. C., Augusta, Milledgeville, and Atlanta, Ga., and in many places in South Carolina, as well as in other States.

For the last year and a half the South Carolina State board of health has been actively investigating the pellagra problem by special inquiry, conference, and original research with the cooperation of Surgeon-General Wyman, of the United States Public Health and Marine-Hospital Service, who has assigned one of the present writers (C. H. L.) to duty at Columbia and vicinity for this purpose.

Recently a letter of inquiry (see below) about pellagra was addressed by another of the present writers (C. F. W.) to the superintendents of state hospitals for the insane in the United States, and the following table embodies their replies:

To 164 inquiries 120 replies were received, about 20 being in the affirmative.

New York: Number of cases, few (near Brooklyn).

Pennsylvania (Dixmont): Number of cases, 1; recognized, 1909 (Hungarian).

Maryland: Number of cases, 1 or 2; recognized, 1909; probably existed since 1905: male, 1; female, 1.

Virginia (Staunton): Number of cases, 1 (?); recognized, 1908.

Virginia (Petersburg): Number of cases, 1 (?).

North Carolina (Raleigh): Number of cases, several; recognized, 2 or 3 years; probably existed 10 years.

North Carolina (Goldsboro): Number of cases, 8; recognized, 1908; probably existed 10 years; female, 8.

North Carolina (Doctor Taylor, Morganton): Number of cases, 8; probably existed 22 years.

North Carolina (Doctor McCampbell, Morganton): Number of cases, 20; probably existed 5 years.

North Carolina (Doctor Wood, Wilmington): Number of cases, 75 in State.

South Carolina State Hospital: Number of cases, 125; recognized, 1907; probably existed 20 to 30 years; male, 25 per cent; female, 75 per cent.

South Carolina (Doctor Williams, Columbia): Number of cases, 500 estimated in State.

Georgia (Grady Hospital, Atlanta): Number of cases, 10; recognized, 1907.

Georgia (State Sanitarium, Milledgeville): Number of cases, 225; recognized, 1907; probably existed about 25 years; male, 25 per cent; female, 75 per cent.

Florida (State Hospital, Chattahoochee): Number of cases, 12; recognized, 1907; probably existed 4 years; male, 5; female, 7.

Alabama (Mount Vernon Hospital): Number of cases, 154, and 2 private; recognized, 1906; probably existed since 1906; male, small number; female, large number. Dr. G. H. Searcy estimates 150 to 200 cases in State.

Mississippi (Jackson): Number of cases, 1; other cases in State.

Mississippi (Meridian): Number of cases, 2; recognized, 1907 (?); male, 1; female, 1.

Louisiana (Pineville): Number of cases, 3.

Tennessee (Baptist Orphans' Home, Nashville): Number of cases, 11.

Kansas (Topeka): Number of cases, 6 (?); probably existed 15 years; male, 3; female, 3.

Kansas (Epileptic colony, Parsons): Number of cases, 1; probably existed, native.

This table seems to show that there are records of about 1,000 cases of pellagra scattered in 13 States. More than half of these have been reported from asylums or similar institutions. Sporadic or suspected cases have been reported from Texas and Arkansas, as well as from New York.

Dr. E. J. Wood, of Wilmington, N. C., has records of 300 cases in the South, 75 of which occurred in North Carolina. It has been estimated that hundreds of cases exist in Georgia, and Doctor Walker, of the State Sanitarium, Milledgeville, says that 2 per cent of over 947 admissions in 1908 were cases of pellagra.

One of the present writers (C. H. L.) has reported to the Surgeon-General a conservative estimate of 1,500 cases in the Southern States since 1906.

The asylum officers in Maryland have not observed cases, but Dr. W. S. Thayer, of the Johns Hopkins Hospital, has recently recognized and reported a case of the disease in Baltimore and is satisfied that he observed a similar case several years ago (1905).

The disease does not seem to have appeared in the Tennessee Hospital for the Insane, but 11 cases of pellagra have been reported as occurring in the Baptist Orphans' Home at Nashville.

Doctor Dewing, of the Long Island State Hospital, Flatbush, Brooklyn, N. Y., reports that he has had no cases of pellagra in his hospital, but "a few cases apparently from other sections of the country" have been observed in that vicinity.

One of the present writers observed in New York, in 1908, a case of the disease in a white American seaman in the coastwise service.

Although not within the boundaries of the United States, it deserves passing note that Dr. B. K. Ashford has reported the observation of 1 case in Porto Rico, and Dr. J. A. Hayne has observed 2 cases on the Panama Canal Zone.

While absolute accuracy is not claimed for these statistics, they may be regarded as a fair indication of the extent and distribution of pellagra as now recognized in this country, and their presentation at this time is made for the purpose of emphasizing the growing importance of the pellagra problem in the United States.

The following interrogations are used by one of the present writers (C. F. W.) in gathering statistics of pellagra:

1. Have you seen any case of pellagra in your institution or in your State?
2. How many cases have you seen?
3. How long since you recognized the disease?
4. If at all, how long do you think the disease has existed in your section?
5. What proportion were male? Female?
6. What was the occupation of those affected? Nationality?
7. Do the products of Indian corn (hominy or meal) form a part of the dietary of the patients and are those products derived from native or shipped corn?
8. Were your patients from the poor, moderate, or well-to-do classes? And were they from the city, town, or country?

..... M. D.,
Superintendent.....
State of

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NOTE.—There seems little doubt that the condition now recognized as pellagra has existed in the Southern States for many years—25 or 30 at least—and has been regarded as an unusual manifestation of tuberculosis, syphilis, malaria, acute delirium, hook-worms, dermatitis exfoliativa, eczema, etc. Careful search through medical literature may disclose the fact that cases of pellagra have been reported under these or other diagnoses.

Reports from San Francisco, Cal.—Plague-prevention work at San Francisco, Oakland, and Point Richmond and in Alameda and Contra Costa counties, Cal.

Surgeon Blue reports:

SAN FRANCISCO, CAL.

Date of last case of human plague: Sickened, January 30, 1908.

Date of last case of rodent plague: October 23, 1908.

Week ended May 22, 1909.

Dead inspected.....	110
Plague.....	0
Premises inspected.....	2,514
Houses disinfected.....	57
Buildings condemned.....	5
Houses destroyed.....	2
Nuisances abated.....	317
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Rats found dead.....	56
Rats trapped.....	2,494
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Total rats taken.....	2,550
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Rats identified:	
<i>Mus norvegicus</i>	1,963
<i>Mus rattus</i>	66
<i>Mus musculus</i>	477
<i>Mus alexandrinus</i>	17
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Total.....	2,523
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Rats identified as to sex:	
Male.....	953
Female.....	1,012
Total.....	1,965

Gophers trapped.....	21
Rabbits trapped.....	1
Rats examined bacteriologically.....	1,612
Plague rats.....	0
Gophers examined bacteriologically.....	21
Plague gophers.....	0

Rabbits examined bacteriologically.....	1
Plague rabbits.....	0
Poisons placed.....	16,691

OAKLAND, CAL.

Date of last case of human plague: Sickened, July 17, 1908.

Date of last case of rodent plague: Trapped, December 1, 1908.

Week ended May 29, 1909.

Dead inspected	23
Plague	0
Necropsies held.....	1
Premises inspected.....	438
Premises reinspected.....	477
Premises cleaned.....	95
Nuisances abated.....	103
Garbage cans installed.....	13
Rats found dead.....	31
Rats trapped.....	943

Rats identified:

Mus norvegicus.....	970
Mus alexandrinus.....	2
Mus musculus.....	36
Total.....	1,008

Rats examined bacteriologically.....	972
Plague rats.....	0
Mice examined bacteriologically.....	36
Plague mice.....	0

POINT RICHMOND, CAL.

Week ended May 29.

Premises inspected.....	350
Nuisances abated.....	21
Rats found dead.....	14
Rats trapped.....	51
Rats examined bacteriologically.....	51
Plague rats.....	0
Poisons placed.....	4,900

ALAMEDA COUNTY, CAL.

Week ended May 29, 1909.

Dead inspected.....	46
Plague.....	0
Necropsies held.....	8

CONTRA COSTA COUNTY, CAL.

Week ended May 29.

Dead inspected.....	1
Plague.....	0
Ground squirrels shot.....	332
Ground squirrel found dead	1
Ground squirrels trapped.....	12
Ground squirrels examined bacteriologically.....	261
Plague squirrels.....	0
Ranches inspected.....	22
Acres covered with poison.....	33
Poisons placed.....	801

Reports from Seattle, Wash.—Plague-prevention work.

Passed Assistant Surgeon Glover reports, June 1:

SEATTLE, WASH.

Date of finding of last plague rat, September 26, 1908.

Week ended May 29, 1909.

Rats received.....	792
Rats necropsied.....	784
Plague rats found.....	0
Plague-infected rats to date.....	21

Report of plague laboratory work, month of May, 1909—Examination of rats for plague infection—Lepra-like disease found.

Assistant Surgeon Chapin reports, June 3, through Passed Assistant Surgeon Glover:

Month of May 1909.—During the month 3,663 rats were delivered at the laboratory and 3,349 were necropsied. No plague-infected rats were found.

Bounty men have been making large catches from the city dump, brush bulkheads, etc., at the southern end of the city, a section shown last year to be plague infected. Partly because many of these rats are too putrefied to show anything definite by the usual method of examination and partly to avoid the possibility of overlooking any infection, the method has been adopted in certain cases of inoculating a single animal by cutaneous method from the organs of every rat of an entire catch from the same locality, sometimes 30 or even more in number. Inoculation has thus been made during the month from over 400 rats, with negative results.

Two cases of lepra-like disease of rats have been found during the month.

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES—UNTABULATED.

CALIFORNIA—*San Francisco*.—Annual report for the fiscal year ended June 30, 1907. Total number of deaths, 6,302, including enteric fever 228, smallpox 1, measles 42, scarlet fever 9, whooping cough 37, diphtheria 41, plague 1, leprosy 4, beriberi 2, and 678 from tuberculosis. Cases: Scarlet fever 229, diphtheria 295, enteric fever 1,279, measles 1,236, tuberculosis 595, smallpox 40, whooping cough 5, beriberi 1, and bubonic plague 1.

COLORADO—*Colorado Springs*.—Month of March, 1909. Estimated population, 32,000. Total number of deaths, 39, including scarlet fever 1, and 8 from tuberculosis. Cases: Scarlet fever 14, and diphtheria 1.

Month of April, 1909. Total number of deaths, 40, including scarlet fever 2, diphtheria 1, and 12 from tuberculosis. Cases: Scarlet fever 13, diphtheria 4, measles 1, and whooping cough 2.

FLORIDA.—Report from the state board of health of cases of communicable diseases for the week ended June 5, 1909, shows as follows: *Malaria*—Crescent City 2, Jacksonville 21, Tampa 8, Daytona, Inverness, Lakeland, Floyd, Plant City, and Sanford each 1 case. *Tuberculosis*—Jacksonville 6, Tampa 3, Key West 2, Pensacola and Palmetto each 1 case. *Enteric fever*—Jacksonville 2, Citra, Dade City, De Funiak Springs, and Morriston each 1 case.

Pensacola.—Month of May, 1909. Estimated population, 30,000. Total number of deaths, 38, including smallpox 1, and 1 from tuberculosis.

INDIANA—*Jeffersonville*.—Month of May, 1909. Estimated population, 12,000. Total number of deaths, 11, including 1 from enteric fever. Cases: Enteric fever 1, and diphtheria 1.

IOWA—*Ottumwa*.—Month of May, 1909. Estimated population 25,000. Total number of deaths, 31, including 3 from tuberculosis. Cases: Measles 10, diphtheria 1, smallpox 4, and whooping cough 12.

KANSAS.—Month of April, 1909. Estimated population, 1,470,495. Total number of deaths from contagious and infectious diseases, 111. Causes of death: Tuberculosis 72, enteric fever 10, diphtheria 7, scarlet fever 3, smallpox 1, and 18 from measles. Cases: Tuberculosis 109, enteric fever 26, diphtheria 64, scarlet fever 113, smallpox 315, and measles 1,006.

MASSACHUSETTS—*Newton*.—Month of May, 1909. Estimated population, 38,919. Total number of deaths, 46, including measles 2, and 3 from pulmonary tuberculosis. Cases: Diphtheria 6, scarlet fever 11, enteric fever 1, measles 147, and pulmonary tuberculosis 4.

NEW HAMPSHIRE—*Franklin*.—Month of May, 1909. Estimated population, 7,200. Total number of deaths, 11, including 1 from measles. Cases: Measles 10, and diphtheria 1.

Manchester.—Month of April, 1909. Estimated population, 68,000. Total number of deaths, 116, including diphtheria 3, enteric fever 4, and 11 from tuberculosis. Cases: Diphtheria 18, scarlet fever 3, measles 5, and enteric fever 7.

NEW YORK STATE.—Month of April, 1909. Estimated population, 8,699,643. Total number of deaths, 12,822, corresponding to an annual death rate of 18 per 1,000 of population, including enteric fever 55, smallpox 1, measles 195, scarlet fever 113, whooping cough 77, diphtheria 242, and 1,596 from tuberculosis. Cases: Tuberculosis 3,015, diphtheria 1,584, scarlet fever 2,475, measles 7,053, smallpox 33, and enteric fever 258.

Buffalo.—Month of May, 1909. Estimated population, 415,532. Total number of deaths, 491, including enteric fever 5, scarlet fever 13, diphtheria 6, whooping cough 1, and 36 from tuberculosis. Cases: Enteric fever 25, scarlet fever 258, diphtheria 33, measles 56, whooping cough 16, and tuberculosis 59.

Rome.—Month of May, 1909. Estimated population, 18,500. Total number of deaths, 33, including scarlet fever 1, measles 1, whooping cough 1, and 1 from tuberculosis. Cases: Scarlet fever 7, diphtheria 6, enteric fever 1, whooping cough 2, measles 3, and tuberculosis 1.

PENNSYLVANIA—*Pittsburg*.—Month of January, 1909. Estimated population, 572,000. Total number of deaths, 750, corresponding to an annual death rate of 15.73 per 1,000 of population, including diphtheria 12, scarlet fever 11, enteric fever 5, tuberculosis 47, whooping cough 2, measles 3, and 23 from diarrhea. Cases: Diphtheria 66, scarlet fever 114, tuberculosis 167, enteric fever 89, whooping cough 66, and measles 84.

Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, December 26, 1908, to June 18, 1909.

For reports received from June 26, 1908, to December 25, 1908, see PUBLIC HEALTH REPORTS for December 25, 1908.

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Autauga County.....	Feb. 27-Apr. 5.....	11	.....
Prattville.....	Feb. 27-Apr. 5.....	3	.....
Dallas County.....	Feb. 20-Apr. 12.....	12	.....
Selma.....	Feb. 28-Apr. 12.....	26	.....
Jefferson County—				
Birmingham.....	Mar. 1-May 24.....	11	.....
Mobile County—				
Mobile.....	Jan. 12-Apr. 17.....	8	.....
Montgomery County—				
Montgomery.....	Mar. 13-Apr. 2.....	.....	2	
Tuscaloosa County.....	.....	.....	.....	86 cases, year 1908.
Total for State.....	.....	71	2	
Arizona:				
Winslow.....	May 1-3.....	1	1	
Total for State.....	.....	1	1	
Arkansas:				
Allbrook.....	Jan. 1-Mar. 25.....	40	.....
Bethel.....	Jan. 25.....	3	.....
Jonesboro.....	Jan. 20-Mar. 1.....	20	.....
Little Rock.....	Dec. 15-Jan. 2.....	23	.....
Magnolia.....	Jan. 5-13.....	25	.....
Paragould.....	Feb. 1-Mar. 9.....	27	.....
Texarkana.....	Nov. 26-Jan. 11.....	10	.....
Total for State.....	.....	148	.....
California, general.				
Berkeley.....	Nov. 1-Mar. 31.....	.....	5	
Los Angeles.....	Apr. 18-24.....	1	.....
Oakland.....	Dec. 6-May 15.....	23	1	
Sacramento.....	Nov. 1-Apr. 26.....	18	.....
San Francisco.....	Nov. 1-May 29.....	63	.....
Stockton.....	Dec. 13-May 22.....	37	.....
Total for State.....	Nov. 1-May 1.....	13	.....
.....	.....	155	6	
Colorado, general.				
Archuleta County.....	July 1-Feb. 23.....	57	.....
Boulder County.....	July 1-Dec. 31.....	1	.....
Chaffee County.....	Mar. 1-31.....	2	.....
Clear Creek County.....	July 1-Mar. 31.....	2	.....
Conejos County.....	Mar. 1-31.....	1	.....
Denver County—				
Denver.....	July 1-Mar. 31.....	2	.....
.....	.....	18	.....

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Colorado, general—Continued.				
Douglas County.....	July 1-Dec. 31.....	5	.....
Fremont County.....	July 1-Dec. 31.....	1	.....
Garfield County.....	Mar. 1-31.....	3	.....
Huerfano County.....	July 1-Mar. 31.....	12	.....
Larimer County.....	July 1-Dec. 31.....	1	.....
Las Animas County.....	Mar. 1-31.....	5	.....
Logan County.....	Mar. 1-31.....	3	.....
Mesa County.....	Mar. 1-31.....	2	.....
Morgan County.....	July 1-Mar. 31.....	13	.....
Phillips County.....	July 1-Dec. 31.....	4	.....
Pueblo County.....	Mar. 1-31.....	38	.....
Weld County.....	July 1-Mar. 31.....	20	.....
Total for State.....		190	.....
District of Columbia:				
Washington.....	Dec. 28-May 29.....	13	.....
Total for District.....		13	.....
Florida:				
Pensacola.....	May 1-31.....	1	.....
Total for State.....		1	.....
Georgia:				
Bibb County—				
Macon.....	Mar. 14-June 6.....	43	.....
Cobb County.....	Jan. 16-Feb. 7.....	8	.....
Fulton County—				
Atlanta.....	Jan. 15-May 21.....	62	.....	And vicinity.
Muscogee County—				
Columbus.....	June 6-12.....	.....	1	
Paulding County.....	Jan. 16-Feb. 7.....	15	.....
Total for State.....		128	1	
Illinois:				
Alexander County—				
Cairo.....	Jan. 7-Mar. 31.....	233	.....
Delta.....	Feb. 1-28.....	40	.....
Fayville.....	Feb. 1-28.....	.....		Present.
Thebes.....	Jan. 1-Feb. 28.....	6	.....
Bureau County—				
Ladd.....	Nov. 1-30.....	4	.....
Carroll County—				
Savanna.....	Feb. 1-Mar. 31.....	3	.....
Cass County.....	Feb. 1-Mar. 31.....	4	.....
Champaign County.....	Mar. 1-31.....	1	.....
Christian County—				
Edinburg.....	Feb. 1-Mar. 28.....	27	.....
Taylorville.....	Aug. 1-Mar. 31.....	55	.....
Clinton County—				
Boulder.....	Feb. 1-28.....	1	.....
Carlyle.....	Jan. 1-31.....	1	.....
Coles County—				
Charleston.....	Jan. 1-30.....	1	.....
Cook County—				
Chicago.....	Jan. 3-May 29.....	13	1	
Fayette County.....	Mar. 1-31.....	3	.....
Franklin County—				
West Frankfort.....	Dec. 12-Feb. 13.....	15	.....
Fulton County—				
Canton.....	Jan. 1-Feb. 28.....	55	.....
Cuba.....	Jan. 1-31.....	1	.....
Farmington.....	Mar. 1-31.....	25	.....
Lewiston.....	Jan. 1-Mar. 31.....	26	.....
Norris.....	Feb. 1-Mar. 31.....	19	.....
Jackson County.....	Feb. 1-21.....	2	.....
Murphysboro.....	Jan. 1-Mar. 31.....	70	1	
Jasper County.....	Jan. 1-31.....	11	.....	Present in Smallwood and South Muddy townships.
Newton.....	Jan. 1-31.....	1	.....
Jo Daviess County—				
Galena.....	Jan. 1-31.....	3	.....
Kane County—				
St. Charles.....	Jan. 1-Mar. 31.....	2	.....
Kankakee County—				
Grant Park.....	Jan. 1-31.....	1	.....
Knox County—				
Galesburg.....	Feb. 14-May 15.....	11	.....

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Lake County.	Mar. 1-31.	1		
Waukegan.	Feb. 2-26.	3		
Livingston County.	Feb. 1-28.	3		
McLean County—				
Bloomington.	Jan. 1-Mar. 31.	14		
Macon County.	Feb. 1-Mar. 31.	7		
Decatur.	Jan. 1-Mar. 31.	20		
Macoupin County.		21		
Bend.	Feb. 15-18.	2		
Palmyra.	Dec. 25-Jan. 20.	4		
Scottsville.	Dec. 25-Jan. 20.	12		
Madison County—				
Alton.	May 1-Apr. 30.	3		
Marion County—				
Centralia.	July 1-Jan. 20.	53		
Kinmundy.	Mar. 1-31.	2		And vicinity.
Odin.	Jan. 1-31.	1		
Sandoval.	Jan. 1-Mar. 31.	3		
Mason County.	Jan. 1-Mar. 31.	12		Present in Bath, Havana, and Quiver townships.
Massac County—				
Metropolis.	Jan. 1-Mar. 31.	6		
Mercer County.	Jan. 1-31.	1		In North Henderson Township.
Montgomery County.	Jan. 1-31.	8		Present in Farmersville and in Bois d'Arc and Pitman townships.
Morgan County—				
Jacksonville.	Feb. 5-11.	1		
Peoria County—				
Elmwood.	Mar. 1-31.	2		
Peoria.	Dec. 31-May 31.	121		Present in Glassford and in Timber and Trivoli townships.
Pope County—				
Eddyville.	Feb. 1-28.			Present in vicinity.
Pulaski County.	Jan. 1-31.			Present in Pulaski.
Mounds.	Jan. 1-Mar. 31.	18		
Mound City.	Jan. 1-31.	7		Feb. 28, still present.
Randolph County—				
Percy.	Jan. 1-Mar. 31.	40		
Preston.	Mar. 1-31.	6		
St. Clair County.	Feb. 1-Mar. 31.	16		
Belleville.	Dec. 4-Feb. 28.	15		
Mascoutah.	Jan. 1-31.	1		
Millsstadt.	Jan. 1-Feb. 28.	2		
Saline County—				
Eldorado.	Jan. 1-Feb. 28.	4		
Harrisburg.	Mar. 1-31.	8		
Sangamon County—				
Pawnee.	Jan. 1-31.	2		
Springfield.	Mar. 20-May 28.	23		
Schuylerville County—				
Browning.	Oct. 12-Jan. 20.	75		
Stephenson County—				
Freeport.	Feb. 1-28.	9		
Tazewell County.	Jan. 1-Mar. 31.			Present in Elm Grove, Green Valley, and Groveland townships.
Pekin.	Jan. 1-Mar. 31.	53		
Washington.	Mar. 1-31.	1		
Vermilion County—				
Danville.	Jan. 11-May 30.	91		
Rankin.	Feb. 1-28.	1		
Williamson County—				
Bush.	Mar. 1-31.	6		
Carterville.	Jan. 1-Mar. 31.	17		
Johnston City.	Jan. 1-31.	1		
Marion.	Jan. 1-Mar. 31.	19		
Woodford County—				
Roanoke.	Mar. 1-31.	3		
Total for State.		1,341	2	
Indiana:				
Allen County.	Dec. 1-Mar. 31.	2		
Fort Wayne.	Jan. 10-June 5.	17		
Bartholomew County.	Dec. 1-31.	1		
Benton County.	Nov. 1-Mar. 31.	5		
Boone County.	Nov. 1-Dec. 31.	2		
Carroll County.	Oct. 1-Mar. 31.	36		
Cass County.	Jan. 1-31.	1		
Clay County.	Oct. 1-31.	8		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana—Continued.				
Clinton County.....	Feb. 1-Mar. 31.....	20		
Dearborn County.....	Oct. 1-Feb. 28.....	15		
Decatur County.....	Jan. 1-Mar. 31.....	9		
Delaware County.....	Dec. 1-Jan. 31.....	61		
Muncie.....	Mar. 27.....	1		
Elkhart County.....	Oct. 1-Mar. 31.....	20		
Elkhart.....	Jan. 17-Mar. 6.....	8		
Floyd County.....	Feb. 1-28.....	1		
Fountain County.....	Feb. 1-28.....	19		
Franklin County.....	Dec. 1-31.....	1		
Gibson County.....	Dec. 1-Mar. 31.....	6		
Grant County.....	Dec. 1-Jan. 31.....	7		
Union.....	Feb. 6.....	5		
Greene County.....	Jan. 1-31.....	1		
Hamilton County.....	Dec. 1-Mar. 31.....	30		
Harrison County.....	Dec. 1-Jan. 31.....	11		
Hendricks County.....	Nov. 1-Dec. 31.....	5		
Henry County.....	Jan. 1-Feb. 28.....	12		
Howard County.....	Jan. 7-Feb. 28.....	9		
Jennings County.....	Feb. 1-Mar. 31.....	11		
Johnson County.....	Feb. 1-Mar. 31.....	2		
Kosciusko County.....	Mar. 1-31.....	11		
Laporte County.....	Feb. 1-28.....	6		
Madison County.....	Oct. 1-Jan. 31.....	6		
Anderson.....	Dec. 1-31.....	1		
Marion County.....	Dec. 1-31.....	1		
Indianapolis.....	Jan. 18-May 30.....	10		
Miami County.....	Dec. 1-Jan. 31.....	8		
Montgomery County.....	Feb. 1-28.....	2		
Noble County.....	Jan. 1-31.....	11		
Posey County.....	Feb. 1-28.....	3		
Rush County.....	Dec. 1-Feb. 28.....	43		
Shelby County.....	Dec. 1-31.....	1		
Spencer County.....	Dec. 1-Feb. 28.....	3		
St. Joseph County.....	Dec. 1-Feb. 28.....	32		
South Bend.....	Mar. 23-June 5.....	16		
Sullivan County.....	Oct. 1-31.....	2		
Tippecanoe County.....	Oct. 1-Feb. 28.....	91		
Lafayette.....	Dec. 15-May 3.....	66	1	
Tipton County.....	Nov. 1-Jan. 31.....	4		
Vanderburg County—				
Evansville.....	Jan. 10-May 15.....	11		
Vermilion County.....	Mar. 1-31.....	4		
Vigo County.....	Oct. 1-Dec. 31.....	7		
Wabash County.....	Nov. 1-Dec. 31.....	4		
Warren County.....	Dec. 1-Feb. 28.....	38		
Warrick County.....	Feb. 1-28.....	1		
Wayne County.....	Nov. 1-Mar. 31.....	17		
Wells County.....	Feb. 1-28.....	58		
White County.....	Mar. 1-31.....	14		
Total for State.		797	1	
Iowa, general.	July 1-Sept. 30.		2	
Burlington.....	Jan. 1-31.....	1		
Cedar Rapids.....	Mar. 1-May 31.....	18		
Council Bluffs.....	July 1-May 16.....	36	2	
Davenport.....	Apr. 12-May 30.....	5		
Dubuque.....	Oct. 1-Jan. 31.....	87	1	
New Hampton.....	Feb. 26.....	8		
Sioux City.....	Apr. 1-May 31.....	2		
Total for State.		157	5	
Kansas:				
Allen County.....	Jan. 1-Mar. 31.....	11		
Atchison County—				
Atchison.....	Mar. 1-31.....	9		
Cedar Rapids.....	Dec. 20-Mar. 31.....	6		
Barton County.....	Nov. 1-30.....	7		
Bourbon County.....	Nov. 1-30.....	1		
Brown County.....	Nov. 1-Mar. 31.....	56		
Butler County.....	Feb. 1-Mar. 31.....	7		
Chautauqua County.....	Feb. 1-Mar. 31.....	19		
Cherokee County.....	Jan. 1-Mar. 31.....	30		
Clark County.....	Mar. 1-31.....	5		
Crawford County—				
Pittsburg.....	Jan. 1-Mar. 31.....	9		
Decatur County.....	Nov. 1-Mar. 31.....	130		
Doniphan County.....	Jan. 1-Mar. 31.....	12		
Douglas County.....	Mar. 1-31.....	15		
Finney County.....	Mar. 1-31.....	3		
Ford County.....	Feb. 1-28.....	2		
	Jan. 1-Mar. 31.....	4		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Franklin County.....	Dec. 1-Mar. 31.....	4		
Greenwood.....	Feb. 1-Mar. 31.....	24		
Harvey County.....	Nov. 1-Mar. 31.....	6		
Jackson County.....	Nov. 1-Mar. 31.....	106		
Jefferson County.....	Dec. 1-Mar. 31.....	23		
Jewell County.....	Dec. 1-Mar. 31.....	30		
Labette County—				
Parsons.....	Jan. 1-Mar. 31.....	11		
Lane County.....	Jan. 1-31.....	4		
Lincoln County.....	Mar. 1-31.....	1		
Lyon County.....	Feb. 1-28.....	8		
McPherson County.....	Jan. 1-31.....	1		
Marion County.....	Mar. 1-31.....	1		
Marshall County.....	Jan. 1-Mar. 31.....	4		
Mitchell County.....	Feb. 1-28.....	2		
Montgomery County.....	Nov. 1-Mar. 31.....	20		
Nemaha County.....	Dec. 1-Feb. 28.....	3		
Ness County.....	Mar. 1-31.....	5		
Osage County.....	Feb. 1-Mar. 31.....	39		
Osborne County.....	Mar. 1-31.....	4		
Phillips County.....	Dec. 1-Mar. 31.....	9		
Pottawatomie County.....	Nov. 1-Mar. 31.....	70		
Pratt County.....	Dec. 1-31.....	20		
Rawlins County.....	Mar. 1-31.....	20		
Reno County.....	Nov. 1-Jan. 31.....	4	1	
Republic County.....	Mar. 1-31.....	3		
Riley County.....	Nov. 1-30.....	2		
Rooks County.....	Jan. 1-31.....	3		
Saline County.....	Nov. 1-Mar. 31.....	57		
Sedgewick County.....	Feb. 1-Mar. 31.....	9		
Wichita.....	Mar. 7-May 29.....	37		
Shawnee County.....	Nov. 1-Mar. 31.....	120		
Topeka.....	June 7-Apr. 3.....	128		
Sheridan County.....	Dec. 1-Jan. 31.....	11		
Smith County.....	Feb. 1-Mar. 31.....	8		
Stafford County.....	Dec. 1-31.....	1		
Sumner County.....	Nov. 1-Mar. 31.....	11		
Thomas County.....	Jan. 1-31.....	2		
Wallace County.....	Jan. 1-31.....	2		
Wabaunsee County.....	Jan. 1-Mar. 31.....	8		
Wilson County.....	Nov. 1-30.....	5		
Wyandotte County—				
Kansas City.....	Jan. 3-June 5.....	84		
Total for State.....		1,236	1	
Kentucky:				
Anderson County.....	Oct. 1-Jan. 20.....	200	1	Including Lawrenceburg.
Berea.....	Feb. 1-Apr. 2.....	20		
Covington.....	Dec. 29-June 12.....	39		
Fulton.....	Feb. 1-Mar. 22.....	27		
Georgetown.....	Dec. 2-Mar. 4.....	31		
Henderson.....	May 1-31.....	2		
Lexington.....	Dec. 28-Apr. 5.....	55		
Newport.....	July 1-June 6.....	74	1	Jan. 1-June 30, 1908, 7 cases.
Paducah.....	Jan. 24-May 30.....	57		
Total for State.....		505	2	
Louisiana:				
Alexandria.....	Feb. 1-28.....	9		
Arcadia Parish.....	Dec. 20-Jan. 11.....	30		
New Orleans.....	Dec. 20-June 5.....	65		Including Bienville, Liberty Hill, and Mount Lebanon.
Shreveport.....	Jan. 1-20.....	32	1	Mainly imported.
Winnfield.....	Jan. 1-Mar. 24.....	33		
Total for State.....		169	1	And vicinity.
Maine:				
Cyr plantation.....	Oct. 16-24.....	11		
Frenchville.....	Nov. 11-Dec. 5.....	2		
Grand Isle (Grant Isle).....	Oct. 16-Dec. 12.....	26		
St. Agatha.....	Oct. 24-Dec. 26.....	9		
St. David.....	Dec. 13-19.....	1		
Upper Frenchville.....	Oct. 25-Nov. 11.....	2		
Van Buren.....	Oct. 18-May 22.....	98		
Total for State.....		149		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Maryland				
Baltimore	Mar. 18-21	10		
	Jan. 30-Feb. 6	1		
Total for State		11		
Massachusetts:				
Boston	Mar. 14-20	2		
Haverhill	Mar. 14-20	1		
Lawrence	Mar. 7-13	1		
New Bedford	Jan. 30-Mar. 13	3	1	
Northfield	Apr. 1-24	2		
Somerville	May 16-22	1		
Total for State		10	1	
Michigan:				
Barry County	Nov. 1-Dec. 31	5		
Cheboygan County	Dec. 1-31	4		
Delta County	Nov. 1-30	1		
Eaton County	Dec. 1-31	1		
Ingham County— Lansing	Nov. 1-Dec. 31	11		
Ionia County	Dec. 1-31	2		
Kalamazoo County	Dec. 1-31	3		
Kent County— Grand Rapids	Jan. 24-June 5	12		
Lapeer County	Dec. 1-31	2		
Macomb County	Nov. 1-30	1		
Manistee County	Nov. 1-30	2		
Menominee County	Dec. 1-31	1		
Muskegon County	Nov. 1-Dec. 31	19		
Saginaw County— Saginaw	Jan. 16-May 29	28		
St. Clair County	Nov. 1-Dec. 31	2		
Port Huron	Nov. 1-Dec. 5	3		
Wayne County— Detroit	Jan. 10-Mar. 27	7		
Wexford County	Dec. 1-31	2		
Total for State		106		
Minnesota, general	Jan. 1-Feb. 28		3	
Anoka County	Jan. 18-Mar. 29	18		
Becker County	Dec. 7-Mar. 8	14		
Beltrami County	Dec. 15-May 24	5		
Benton County	Oct. 26-Nov. 2	1		
Brown County	Oct. 30-May 10	22		
Carlton County	Apr. 19-26	2		
Carver County	Dec. 7-May 10	26		
Cass County	Oct. 12-Apr. 26	3		
Chippewa County	Nov. 3-Jan. 4	3		
Chisago County	Apr. 12-19	1		
Clay County	Jan. 25-Mar. 29	2		
Cottonwood County	Oct. 20-26	1		
Crow Wing County	Mar. 1-May 3	6		
Dakota County	Apr. 19-May 17	3		
Dodge County	Nov. 24-Feb. 1	3		
Douglas County	Feb. 22-Mar. 1	1		
Faribault County	Dec. 7-28	2		
Filmore County	Dec. 15-Mar. 13	19		
Freeborn County	Apr. 5-12	1		
Goodhue County	Apr. 19-26	1		
Grant County	Apr. 5-May 3	8		
Hennepin County— Minneapolis	Oct. 6-May 3	27		
Houston County	Nov. 1-Apr. 30	116		
Hubbard County	Mar. 29-Apr. 26	7		
Jackson County	Oct. 19-Apr. 26	64		
Kandiyohi County	Dec. 7-Jan. 18	16		
Kittson County	Dec. 15-Jan. 18	7		
Lac qui Parle County	Dec. 15-Jan. 12	2		
Lake County	Nov. 2-Jan. 12	7		
Lesueur County	Mar. 8-May 10	4		
Lincoln County	Jan. 25-Feb. 1	1		
McLeod County	Nov. 16-Jan. 12	3		
Marshall County	Feb. 1-22	6		
Meeker County	Dec. 15-Jan. 12	1		
Millelacs	Apr. 19-26	1		
Morrison County	May 3-10	1		
Mower County	Nov. 20-Mar. 15	53		
Murray County	Dec. 28-May 17	9		
Nicollet County	Apr. 26-May 3	1		
	Nov. 16-Mar. 1	57		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Minnesota—Cont'd.				
Nobles County.....	Feb. 15-May 10.....	5.....		
Norman County.....	Dec. 7-13.....	5.....		
Olmsted County.....	Jan. 18-May 3.....	9.....		
Ottoville County.....	Feb. 15-Apr. 26.....	5.....		
Pine County.....	Feb. 1-Apr. 26.....	15.....		
Pipestone County.....	Dec. 7-Mar. 15.....	10.....		
Polk County.....	Dec. 15-Mar. 27.....	13.....		
Ramsey County.....	Nov. 16-Apr. 19.....	7.....		
St. Paul.....	Nov. 1-Mar. 31.....	200.....		
Red Lake County.....	Dec. 22-Apr. 19.....	4.....		
Red Wood County.....	Jan. 12-Feb. 15.....	24.....		
Renville County.....	Dec. 1-May 3.....	4.....		
Rice County.....	Feb. 8-May 3.....	28.....		
Rock County.....	Jan. 12-May 24.....	15.....		
Scott County.....	Jan. 12-18.....	1.....		
St. Louis County.....	Dec. 15-Apr. 19.....	10.....		
Duluth.....	Nov. 9-June 4.....	33.....		
Sibley County.....	Dec. 7-May 10.....	42.....		
Stearns County.....	Nov. 9-May 10.....	54.....		
Steele County.....	Oct. 20-Jan. 12.....	11.....		
Stevens County.....	Nov. 9-Jan. 12.....	14.....		
Swift County.....	Apr. 5-12.....	2.....		
Todd County.....	Nov. 9-Apr. 21.....	23.....		
Traverse County.....	May 8-Apr. 12.....	2.....		
Wabasha County.....	Nov. 2-May 10.....	61.....		
Wadena County.....	Nov. 2-Apr. 19.....	43.....		
Waseka County.....	Oct. 26-May 10.....	49.....		
Washington County.....	Nov. 24-Feb. 22.....	2.....		
Stillwater.....	Dec. 1-31.....	3.....		
Winona.....	Dec. 1-7.....	4.....		
Winona.....	Dec. 1-May 24.....	25.....		
Wright County.....	Feb. 15-May 10.....	6.....		
Yellow Medicine County.....	Oct. 20-Jan. 18.....	2.....		
 Total for State.....		1,256.....	3.....	
Mississippi:				
De Soto County.....	Nov. 1-Dec. 22.....	135.....		
 Total for State.....		135.....		
Missouri:				
Kansas City.....	Jan. 24-June 5.....	27.....		
Kirksville.....	Nov. 1-Jan. 31.....	96.....		
Liberty.....	Jan. 15-Mar. 11.....	20.....		
Neosho.....	Mar. 15.....	6.....		
Rich Hill.....	Dec. 5-31.....	4.....		
St. Joseph.....	Dec. 1-Apr. 3.....	2.....		
St. Louis.....	Dec. 20-May 29.....	32.....		
Springfield.....	Nov. 1-Feb. 28.....	3.....		
 Total for State.....		190.....		
Montana:				
Beaverhead County.....	Feb. 1-28.....	2.....		
Carbon County.....	Feb. 1-28.....	1.....		
Cascade County.....	Nov. 1-Mar. 31.....	14.....		
Great Falls.....	Apr. 25-May 1.....	1.....		
Chouteau County.....	Jan. 1-Feb. 28.....	4.....		
Dawson County.....	Dec. 31-Apr. 30.....	33.....		
Deer Lodge County.....	Apr. 1-30.....	3.....		
Fergus County.....	Dec. 31-Mar. 31.....	35.....		
Flathead County.....	Nov. 1-Apr. 30.....	3.....		
Gallatin County.....	Nov. 1-Apr. 30.....	27.....		
Bozeman.....	Nov. 1-Mar. 31.....	19.....	1.....	
Granite County.....	Jan. 1-Mar. 31.....	7.....		
Jefferson County.....	Nov. 1-30.....	4.....		
Lewis and Clark County.....	Mar. 1-31.....	1.....		
Madison County.....	Dec. 1-31.....	2.....		
Meagher County.....	Mar. 1-31.....	1.....		
Missoula County.....	Jan. 1-31.....	12.....		
Missoula.....	Jan. 1-Apr. 30.....	6.....	1.....	
Park County.....	Jan. 1-Apr. 30.....	18.....		
Livingston.....	Apr. 1-30.....	7.....		
Powell County.....	Jan. 1-Feb. 28.....	15.....		
Ravalli County.....	Nov. 1-Apr. 30.....	22.....		
Sanders County.....	Jan. 1-Feb. 28.....	11.....		
Silverbow County.....	Nov. 1-Apr. 30.....	40.....	1.....	
Butte.....	Mar. 16-June 3.....	64.....		
Yellowstone County.....	Nov. 1-30.....	1.....		
Billings.....	Jan. 1-Mar. 31.....	2.....		
 Total for State.....		355.....	3.....	

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Nebraska:				
Arlington.....	Jan. 25.....	1.....		
Lincoln.....	Nov. 1-Apr. 30.....	46.....		
Polk.....	Mar. 20-Apr. 23.....	14.....		
South Omaha.....	Dec. 20-Apr. 10.....	15.....		And vicinity.
Total for State.....		76.....		
New Hampshire:				
Hinsdale.....	Nov. 1-Dec. 15.....	6.....		
West Chesterfield.....	Nov. 1-Dec. 15.....	1.....		
West Lebanon.....	Jan. 15-Feb. 7.....	2.....		
Westmoreland.....	Nov. 1-Dec. 15.....	1.....		
Total for State.....		10.....		
New Jersey:				
Camden.....	Feb. 21-May 8.....	16.....		
Haddonfield.....	Mar. 26-27.....	2.....		
Hightstown.....	Mar. 3.....	1.....		
Hoboken.....	June 5.....	1.....		
Lodi.....	Apr. 15.....	1.....		
New Brunswick.....	Mar. 7-May 22.....	12.....		
Paterson.....	Mar. 16-Apr. 2.....	8.....		
Perth Amboy.....	Mar. 4-Apr. 29.....	30.....		
Plainfield.....	Mar. 7-Apr. 10.....	6.....		
Trenton.....	Apr. 25-May 1.....	2.....	1.....	
Woodbridge.....	Mar. 6-26.....	1.....		
Total for State.....		80.....	1.....	
New York, general.....	Nov. 1-Apr. 30.....	202.....	*3.....	Including Amsterdam, Bridgeport, Broome, Cicero, Gardner, and Middleburg.
Buffalo.....	Feb. 14-Mar. 20.....	4.....		
Little Falls.....	Apr. 10-May 8.....	4.....		
Mohawk Valley.....				
New York.....	Feb. 21-Apr. 3.....	6.....	1.....	Year 1908. 1 death.
Niagara Falls.....	Feb. 7-May 1.....	2.....		
Rome.....	Jan. 1-31.....	1.....		
Schenectady.....	Feb. 7-13.....	1.....		
Syracuse.....	Jan. 9-31.....	3.....		
Total for State.....		283.....	4.....	
North Carolina:				
Ashe County.....	Jan. 1-31.....	7.....		
Bertie County.....	Nov. 1-Feb. 28.....	3.....		
Camden County.....	Jan. 1-Feb. 28.....	50.....		
Catawba County.....	Nov. 1-Dec. 31.....	4.....		
Craven County.....	Feb. 1-28.....	2.....		
Currituck County.....	Nov. 1-Jan. 31.....	34.....		
Duplin County.....	Dec. 1-Feb. 28.....	68.....		
Edgecombe County.....	Dec. 1-31.....	1.....		
Forsyth County.....	Feb. 1-28.....	18.....		
Harnett County.....	Feb. 1-28.....	16.....		
Johnston County.....	Nov. 1-Feb. 28.....	19.....		
Jones County.....	Jan. 1-31.....	3.....		
Lee County.....	Feb. 1-28.....	10.....		
Lenoir County.....	Dec. 1-Feb. 28.....	60.....		
Lincoln County.....	Dec. 1-31.....	1.....		
Madison County.....	Jan. 1-Feb. 28.....	7.....		
Martin County.....	Feb. 1-28.....	9.....		
Mecklenburg County—Charlotte.....	May 8-14.....	1.....		
Nash County.....	Jan. 1-Feb. 28.....	2.....		
New Hanover County—Wilmington.....	Jan. 22-Mar. 1.....	4.....		Imported.
Pasquotank County.....	Nov. 1-Feb. 28.....	129.....		
Pitt County.....	Jan. 1-31.....	2.....		
Rowan County.....	Feb. 1-28.....	1.....		
Sampson County.....	Jan. 1-Feb. 28.....	31.....		
Scotland County.....	Jan. 1-31.....	6.....		
Warren County.....	Feb. 1-28.....	3.....		
Wayne County.....	Jan. 1-Feb. 28.....	27.....		
Total for State.....		518.....		
North Dakota.....	July 1-Feb. 19.....	168.....		
Ward County.....	Jan. 12-Mar. 31.....	27.....		
Sherwood.....	Jan. 12-Mar. 31.....	46.....		
Total for State.....		241.....		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ohio, general.	June 14-Jan. 2.	337		
Ashtabula	Apr. 11-May 29.	12		
Cincinnati	Dec. 12-June 4.	266	2	
Cleveland	Feb. 28-June 11.	7		
Columbus	Dec. 26-May 29.	19		
Conneaut	Mar. 1-Apr. 29.	3		
Dayton	Jan. 24-Feb. 20.	5		
Hillsboro	Apr. 14-June 2.	61		
Massillon	May 10-16.	1		
Newark		3		
Sandusky	May 9-15.	1		
Tiffin	Jan. 3-23.	2		
Toledo	May 2-8.	1		
Warren	May 2-8.	1		
Total for State.		719	2	
Year 1908.				
Oregon:				
Clackamas County	Sept. 1-Feb. 28.	6		
Columbia County	Jan. 1-31.	6		
Harney County	Sept. 1-30.	1		
Hood River County	Jan. 1-31.	4		
Jackson County	Oct. 1-Dec. 31.	9		
Lane County	Dec. 1-31.	10		
Linn County	Sept. 1-Oct. 31.	5		
Marion County	Sept. 1-Feb. 28.	16		
Multnomah County	Dec. 1-31.	5		
Portland	Nov. 1-Mar. 31.	100		
Polk County	Sept. 1-Feb. 28.	14		
Tillamook County	Oct. 1-31.	1		
Umatilla County	Sept. 1-Jan. 31.	9		
Wallowa County	Oct. 1-Feb. 28.	8		
Washington County	Oct. 1-Feb. 28.	39		
Yamhill County	Sept. 1-Feb. 28.	19		
Total for State.		252		
Pennsylvania:				
Gracedale	Oct. 24.	1		
Harrisburg	Dec. 18-Jan. 20.	3		
New Castle	Feb. 1-28.	2		
New Kingstown	Dec. 29.			Present
Philadelphia	Dec. 10-May 21.	2		
Pittsburg	Dec. 13-May 22.	2		
Prompton	Jan. 2-Feb. 10.	3		Imported
Total for State.		13		
South Carolina:				
Winnsboro	Feb. 1-28.	5		
Yorkville	Mar. 10-Apr. 26.	14	8	And vicinity
Total for State.		19	8	
South Dakota:				
Aberdeen	May 1-Jan. 31.	43		
Total for State.		43		
Tennessee:				
Fayette County	Dec. 1-Mar. 28.	200		
Greene County	Jan. 2.	103		
Knoxville	Dec. 28-May 15.	39		
Memphis	Jan. 1-Mar. 13.	190	1	
Murfreesboro	Mar. 15-31.	1		
Nashville	Dec. 20-May 29.	49		
Polk County	Jan. 22.	30		
Total for State.		612	1	
Texas:				
Corpus Christi	Apr. 2.			Present.
Cost	Oct. 1-Dec. 19.			Do.
Cotulla	Jan. 25-Feb. 17.			Do.
Denton County	Jan. 1-Feb. 8.	9		Including Justin and Roanoke.
El Paso	Feb. 10-Mar. 16.	8	1	
Falfurrias	Dec. 26.	12		
Fort Worth		256		
Do.	Feb. 1-May 31.	49	2	Year 1908.
Galveston	Mar. 6-May 28.	9		
Goliad County	Dec. 1-Jan. 20.	25		
Hidalgo County	Jan. 30-May 1.	16		
Houston	Jan. 1-Mar. 27.	9		
Laredo	Dec. 26-Mar. 19.	6		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas—Continued.				
Monthalia.....	Oct. 1-Dec. 19.....			Present.
Oak Forest.....	Oct. 1-Dec. 19.....			Do.
San Antonio.....	Dec. 13-June 5.....	119	1	Do.
San Augustine County.....	Jan. 5.....			Imported.
Waco.....	May 21.....	4		
Total for State.....		522	4	
Utah:				
Beaver County.....	Feb. 1-28.....	2		
Carbon County.....	Feb. 1-28.....	1		
Cache County.....	Jan. 1-Apr. 30.....	77		
Davis County.....	Nov. 1-Apr. 30.....	40		
Emery County.....	Feb. 1-28.....	4		
Garfield County.....	Dec. 1-Apr. 30.....	48		
Millard County.....	Jan. 1-Mar. 31.....	9		
Salt Lake County.....	Dec. 1-Mar. 31.....	170		
Salt Lake City.....	Dec. 1-May 31.....	427	1	
Sanpete County.....	Dec. 1-Apr. 30.....	6		
Sevier County.....	Jan. 1-Mar. 31.....	88		
Summit County.....	Dec. 1-Apr. 30.....	33		
Tooele County.....	Apr. 1-30.....	3		
Utah County.....	Dec. 1-Apr. 30.....	5		
Weber County.....	Nov. 1-Feb. 28.....	26		
Total for State.....		939	1	
Vermont:				
Brattleboro.....	Dec. 5-Jan. 30.....	59		
Newfane.....	Jan. 11.....	8		
West Windsor Township.....	Jan. 23.....	2		
White River Junction.....	Jan. 4-Feb. 9.....	3		
Total for State.....		72		
Virginia:				
Caroline County.....	Mar. 9.....	1		Present in October, 1908.
Lithia.....	Mar. 1-Apr. 28.....	100		And vicinity.
Lynchburg.....	Jan. 10-30.....	3		Imported.
Norfolk.....	Feb. 5-17.....	3		On tug E. W. Marts.
Port Royal.....	Dec. 28-Jan. 14.....	3		
Portsmouth.....	Apr. 21-May 25.....	7	2	
Richmond.....	Mar. 14-June 5.....	8	1	
Total for State.....		125	3	Death in county hospital.
Washington:				
Bellingham.....	Jan. 25-Mar. 23.....	10		
Camas.....	Dec. 29-Mar. 8.....	18		
Colville Indian Reservation.....	Feb. 15-Apr. 6.....	118	3	
Seattle.....	Oct. 1-Mar. 31.....	30		
Spokane.....	Dec. 6-June 5.....	53	1	
Tacoma.....	Dec. 14-June 6.....	73		
Walla-Walla.....	June 5.....	1		
Total for State.....		303	4	
West Virginia:				
Charleston.....	Jan. 1-31.....	1		
Moundsville.....	Jan. 1-31.....			
St. Albans.....	Feb. 16-Apr. 12.....	19		
Weston.....	Jan. 15-Feb. 13.....	1		
Wheeling.....	May 9-June 5.....	4		
Total for State.....		25		
Wisconsin:				
Adams County.....	July 1-Sept. 30.....	3		
Ashland County.....	Oct. 1-Dec. 31.....	4		
Barron County.....	July 1-Dec. 31.....	41		
Buffalo County.....	Oct. 1-Dec. 31.....	1		
Chippewa County.....	July 1-Dec. 31.....	28		
Columbia County.....	Oct. 1-31.....	18		
Dane County.....	July 1-Sept. 30.....	1		
Dodge County.....	July 1-Sept. 30.....	1		
Douglas County.....	July 1-Dec. 31.....	49		
Superior.....	Apr. 25-May 1.....	3		
Dunn County.....	July 1-Dec. 31.....	4		
Fond du Lac County.....	July 1-Dec. 31.....	6		
Green County.....	July 1-Dec. 31.....	4		
Iron County.....	July 1-Sept. 30.....	2		
Juneau County.....	Oct. 1-Dec. 31.....	2		
Kewaunee County.....	July 1-Sept. 30.....	1		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin—Continued.				
La Crosse.....	Dec. 13—June 5.....	51	.....
La Fayette County.....	Oct. 1—Dec. 31.....	1	.....
Manitowoc County.....	Oct. 1—Dec. 31.....	33	.....
Manitowoc.....	Dec. 13—Feb. 27.....	14	.....
Marathon County.....	July 1—Sept. 30.....	2	.....
Marinette County—				
Marinette.....	May 23—June 12.....	2	.....
Milwaukee County—				
Milwaukee.....	Dec. 6—May 29.....	199	.....
Monroe County.....	July 1—Sept. 30.....	12	.....
Outagamie County—				
Appleton.....	Mar. 6—Apr. 17.....	3	.....
Ozaukee County.....	July 1—Sept. 30.....	3	.....
Pierce County.....	July 1—Dec. 31.....	37	.....
Polk County.....	July 1—Dec. 31.....	4	.....
Racine County.....	Oct. 1—Dec. 31.....	1	.....
Racine.....	Mar. 21—Apr. 10.....	6	.....
Richland County.....	Oct. 1—Dec. 31.....	1	.....
Rusk County.....	July 1—Sept. 30.....	3	.....
Sheboygan County.....	July 1—Dec. 31.....	123	.....
St. Croix County.....	Oct. 1—Dec. 31.....	12	.....
Vernon County.....	Oct. 1—Dec. 31.....	6	.....
Total for State.....		681	.....
Grand total for the United States.....		12,656	58	

Weekly morbidity and mortality table, cities of the United States.

[For smallpox, see special table.]

Cities.	Week ended—	Popula- tion, United States census, 1900.	Total deaths from all causes.	Tuber- culosis.		Enteric fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.....	June 5.....	38,973	15	4	.....	.....	.....	4	.....	1	.....	3	.....	9	.....
Ann Arbor, Mich.....	do.....	14,509	9	1	.....	.....	.....	2	.....	1	.....	4	.....	3	.....
Appleton, Wis.....	do.....	15,085	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
Ashtabula, Ohio.....	do.....	12,949	6	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
Atchison, Kans.....	May 8.....	15,722	6	.....	.....	.....	.....	5	1	3	1	.....	.....	.....	.....
Do.....	May 15.....	15,722	9	1	1	.....	.....	4	.....	2	.....	.....	.....	.....	.....
Do.....	May 22.....	15,722	3	.....	.....	2	.....	2	.....	.....	.....	.....	.....	3	.....
Do.....	May 29.....	15,722	6	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Auburn, N. Y.....	do.....	30,345	6	1	2	.....	.....	1	.....	1	.....	.....	.....	11	.....
Do.....	June 5.....	30,345	9	1	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....
Baltimore, Md.....	do.....	506,957	185	18	28	12	.....	6	.....	14	2	87	3	15	.....
Bath, Me.....	do.....	10,477	.....	.....	.....	.....	.....	1	.....	2	.....	10	.....	.....	.....
Bayonne, N. J.....	do.....	32,722	.....	.....	.....	.....	.....	1	.....	2	.....	3	.....	.....	.....
Beaver Falls, Pa.....	do.....	13,000	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Berkeley, Cal.....	May 29.....	13,214	7	.....	2	.....	.....	2	.....	2	.....	1	.....	1	.....
Biddeford, Me.....	June 1.....	16,145	14	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....
Boston, Mass.....	June 5.....	560,892	178	47	15	4	.....	32	1	47	3	82	.....	11	2
Braddock, Pa.....	May 29.....	15,654	4	1	1	2	.....	2	.....	2	.....	.....	.....	1	.....
Do.....	June 5.....	15,654	3	1	1	1	.....	2	.....	2	.....	.....	.....	5	1
Bradford, Pa.....	do.....	15,029	1	.....	.....	.....	.....	3	.....	.....	.....	1	.....	.....	.....
Bridgeport, Conn.....	do.....	70,996	23	.....	3	.....	1	6	.....	2	.....	5	1	.....	.....
Brockton, Mass.....	do.....	40,063	13	2	1	.....	3	.....	2	.....	.....	9	.....	1	.....
Butler, Pa.....	May 19.....	10,853	6	1	.....	1	.....	1	.....	.....	.....	3	1	.....	.....
Do.....	May 26.....	10,853	3	1	.....	1	.....	1	.....	.....	.....	3	1	.....	.....
Do.....	June 2.....	10,853	8	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	.....
Butte, Mont.....	June 3.....	30,470	11	.....	1	.....	1	7	1	.....	.....	3	1	.....	.....
Cambridge, Mass.....	June 5.....	91,886	35	8	9	.....	.....	3	.....	4	1	20	.....	5	.....
Canfield, N. J.....	do.....	75,035	31	1	1	.....	.....	5	.....	4	2	.....	.....	.....	.....
Carbondale, Pa.....	do.....	13,536	3	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....
Charlotte, N. C.....	June 4.....	18,091	7	.....	.....	3	.....	.....	.....	1	.....	3	1	.....	.....
Chelsea, Mass.....	June 5.....	34,072	7	.....	.....	.....	.....	1	.....	1	.....	3	1	.....	.....
Chicago, Ill.....	do.....	1,698,575	573	68	87	21	3	104	4	68	7	476	6	51	3

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Popula- tion, United States census, 1900.	Total deaths from all causes.	Tuber- culosis.		Enteric fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Chicopee, Mass.	June 5	19,167	7	2						1		1			
Cincinnati, Ohio	June 4	325,902	102	14	10	1	1	3		7		13	5		
Cleveland, Ohio	do	381,768	123	19	14	2	4	10		10		162	11		
Clinton, Mass.	June 5	13,667	1							2					
Columbus, Ga.	do	17,614	12	1								23			
Columbus, Ohio	do	125,560	61	7	3	3		1				38			
Concord, N. H.	May 29	19,632	9	1	1			7							
Council Bluffs, Iowa	June 7	25,802	7							1		1			
Covington, Ky.	June 5	42,938	12		4	1				1		1			
Danville, Ill.	June 6	16,534	4							1		1			
Davenport, Iowa	do	35,254								1		1			
Dayton, Ohio	June 5	83,333	33		2		1	1		2		44	1		
Detroit, Mich. ^a	May 5	285,704	145					10	2	9	2				
Do.	May 29	285,704	139					10		10	2				
Duluth, Minn.	June 4	80,000	28	3	3	1	50	1	7	1	20	1			
El Paso, Tex.	June 1	15,905	26	3	6			7	3			7			
Do.	June 8	15,905	16	2	3										
Elkhart, Ind.	June 5	15,184	3					1							
Evansville, Ind.	do	59,007	25	1	2	4	1			3	1	2			
Everett, Mass.	do	24,336	11	2	2	2		3		1	1	2			
Fall River, Mass.	do	104,933	35	13	4	2	3	5		4		2	1		
Findlay, Ohio	do	17,613	6												
Fort Wayne, Ind.	May 29	45,115	16	2	2			1		1		8			
Do.	June 5	45,115	10	2	2			2		2		10			
Galesburg, Ill.	do	18,607	6					1							
Galveston, Tex.	June 4	37,789	10		2					1					
Gloucester, Mass.	June 5	26,121	3												
Grand Rapids, Mich.	do	87,565	25	4	2	1	13			1		1	2		
Greensboro, N. C.	do	10,035	13		2		1					2			
Greenville, S. C.	May 29	11,860	1												
Do.	June 5	11,860	2					1							
Harrison, N. J.	do	10,596	3	1								2			
Hartford, Conn.	May 30	79,850	22	4	1	3		5		5					
Do.	June 6	79,850	26	1	3			3		3					
Haverhill, Mass.	do	37,175	6	4	1	1		2		4	1	17			
Hoboken, N. J.	do	59,364						4	1	3		3			
Homestead, Pa.	May 28	12,554	8	10		1				2		1	2		
Hyde Park, Mass.	June 5	13,244	3												
Indianapolis, Ind.	June 6	169,164	44		4	2		9				71			
Jacksonville, Fla.	do	28,429	17		2	2									
Jersey City, N. J.	do	206,433	68	1				20	5	9	1	11			
Johnstown, Pa.	June 5	33,936	18		3	1		15		2		20		8	
Kalamazoo, Mich.	do	24,404	18	2								44	7		
Kansas City, Kans.	do	51,418	15							2		13			
Kansas City, Mo.	do	163,752	58	5	2	14	1	8	1	26		5			
Kearny, N. J.	do	10,896	4					4	1						
Knoxville, Tenn.	do	32,637	26	4	4	1	1			1		7			
La Crosse, Wis.	do	28,895	11		1										
La Fayette, Ind.	June 7	18,116	3		1							1			
Lancaster, Pa.	June 5	41,459	8	40		1		6		3		18			
Lawrence, Mass.	do	62,559	25	2	8	9	1			4	2	40			
Lebanon, Pa.	do	17,628			1	1				1		1			
Lexington, Ky.	do	26,369	3		2					2					
Los Angeles, Cal.	May 29	102,479	76	9	11	1		11		4		5			
Lowell, Mass.	June 5	94,969	40	1	3	3		2		4		7			
Lynn, Mass.	May 29	68,513	22			1		9		4	1				4
Do.	June 5	68,513	13		2	2	2	5		4					
Macon, Ga.	do	22,746	5	1	1							12			
Manchester, N. H.	June 5	56,987	29	3	3			3							
Marinette, Wis.	May 29	16,195	4												
Do.	June 5	16,195	5	2	2			8							
Marlboro, Mass.	do	13,609	5												
Medford, Mass.	do	18,244	9		1					2		1			
Melrose, Mass.	do	12,962	2									3			
Milwaukee, Wis.	May 29	285,315	103	14	3	13	2	23	11	18	3	65			
Do.	June 5	285,315	92	11	7	10	2	22	5	12	1	71	5	3	
Montclair, N. J.	do	13,962	4	2	1			2							
Montgomery, Ala.	June 4	30,346	17		2			4							
Moline, Ill.	June 6	17,248	7												

a Reported out of date.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Popula-tion, United States census, 1900.	Total deaths from all causes,	Tuber-culosis.		Enteric fever.		Scarlet fever.		Diph-theria.		Measles.		Whoop-ing congh.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Morristown, N. J.	May 29	13,000	4										5		
Do.	June 5	13,000	2	1	1								12		
Mount Vernon, N. Y.	do.	21,228	4												
Muncie, Ind.	do.	20,942	2					2							2
Nanticoke, Pa.	June 6	12,616	3	2											
Nashville, Tenn.	June 5	80,865	50	7	4	3									
Nebraska City, Nebr.	May 29	7,200											15		
Do.	June 5	7,200	3										12		
Newark, N. J.	do.	246,070	105		24	3	2	37	2	22	1				
New Bedford, Mass.	do.	63,442	25	4	3	2		5					7		
Newburyport, Mass.	do.	14,478	5												1
New Orleans, La.	do.	278,104	127	20	16	9		36	1	7	1		2		
Newport, Ky.	May 30	28,301	4												
Do.	June 6	28,301	13		1										
Newton, Mass.	June 5	33,587	8	1				2		2				35	
New York, N. Y.	do.	3,437,202	1,405	400	193	44	7	274	19	371	30	1,458	30	66	10
Niagara Falls, N. Y.	do.	19,457	7		1	3	1	3		1			4		
Norristown, Pa.	May 22	22,265	11	1	3								6		
Do.	May 29	22,265	8	1	1			1	1				1		
Do.	June 5	22,265	5	2	1								7	1	
North Adams, Mass.	do.	24,200	7						1				1		
Northampton, Mass.	do.	18,643	3										2		
Oakland, Cal.	May 31	66,960	30	2	4			4	1	2			4		
Orange, N. J.	June 5	24,141	5	2	2			6					2		
Paducah, Ky.	May 30	19,446	6	3	1										
Do.	June 5	19,446	3	4	1								1		
Peekskill, N. Y.	do.	10,338	6										12		
Philadelphia, Pa.	May 29	1,293,697	442	91	70	43	8	53	3	70	10	232	10	25	3
Do.	June 5	1,293,697	437	98	69	40	7	52	2	68	10	234	5	37	3
Pittsburg, Pa.	do.	321,616	159	29	11	8	1	16		51	2		13	1	34
Pittsfield, Mass.	do.	21,766	9										3		
Plainfield, N. J.	do.	15,369	8			1		1							
Plymouth, Pa.	do.	13,649											1		
Portsmouth, Va.	June 8	17,427	13			1		1							
Pottstown, Pa.	June 5	13,696	5										2		
Providence, R. I.	do.	175,597	45	1	8			5	9			13	1		
Racine, Wis.	June 4	29,102	5	1	1										
Reading, Pa.	June 7	78,961	22	1	4	4		1	4	1	6			1	
Richmond, Va.	May 29	85,050	49	2	3	2									
Do.	June 5	85,050	52	7	4	9		1		1				2	
Rockford, Ill.	do.	31,051											3		
Rock Island, Ill.	do.	19,493	6												
Sacramento, Cal.	May 29	29,282	19		3								11		
Do.	June 5	29,282	10		1								3		
St. Joseph, Mo.	May 15	102,979	15		1	1		1					5		
Do.	May 22	102,979	20		2			6					2		
Do.	May 29	102,979	12		2			2					10		
St. Louis, Mo.	June 5	575,238	174	42	17	4		27	2	17	1	318	4	6	
Salem, Mass.	do.	35,956	10	1	2								1		
San Antonio, Tex.	do.	53,321													
San Francisco, Cal.	May 29	342,782	116	20	10	2		10		15	2	45		18	
Schenectady, N. Y.	June 5	31,682	14	1	3			1		1			1		
Somerville, Mass.	do.	61,643	20	2	2			9		4	1	20			
South Bend, Ind.	do.	35,999		10	2	2		4		1			1		
South Bethlehem, Pa. ^a	do.	13,241	2										15		1
Spokane, Wash.	May 29	38,848	26	1	1	1		34		6		19			
Springfield, Mass.	June 5	62,059	27	1	4			3	1	8	1	12			
Springfield, Ohio	do.	38,253	5	4	1										
Steelton, Pa.	do.	12,068	2		1			1					9		
Superior, Wis.	do.	31,091	7					8		1					
Tacoma, Wash.	May 30	37,714	13		2			3		3		7			
Taunton, Mass.	June 5	31,036	12	1	2	1		2					15		
Terre Haute, Ind.	do.	36,673	19		2			1							
Titusville, Pa.	do.	8,244	1			1									
Trenton, N. J.	do.	73,307		1		11		7		1					
Walla Walla, Wash.	do.	10,049	4												
Waltham, Mass.	do.	23,481	6	1	2			2		1		8		1	
Warren, Pa.	May 31	8,043	4	2	1							2			
Washington, D. C.	June 5	278,718	107	20	10	14	1	12		6	1	21	1	16	2
Weymouth, Mass.	do.	11,324	4		1	2	1	1				2			
Wheeling, W. Va.	do.	38,878	10	2	1	2	1			2		7			

^a Report covers 4 days.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Population United States census, 1900.	Total deaths from all causes.	Tuber-cu-losis.		Enteric fever.		Scarlet fever.		Diph-theria.		Measles.	Whoop-ing cough.
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		
Wilkes-Barre, Pa.	June 4	51,721	18	1	1	—	—	3	3	—	—	30	—
Wilkinsburg, Pa.	June 7	13,000	3	—	—	—	—	3	—	—	—	—	—
Williamsport, Pa. Do.	May 29 June 5	28,757 28,757	2 7	—	—	1	—	2	9	—	—	3	—
Wilmington, Del.	do.	76,508	30	—	4	—	—	—	—	—	—	—	—
Winona, Minn.	June 8	19,714	9	—	—	—	—	—	—	—	—	—	—
Woburn, Mass.	June 5	14,254	2	—	1	—	—	—	—	—	—	—	—
Yonkers, N. Y. Do.	May 20 May 27 June 3	47,931 47,931 47,931	16 25 16	—	2	—	—	17	—	3	1	7	14
York, Pa.	June 5	33,708	—	1	—	2	—	20	—	4	—	4	2
Zanesville, Ohio	do.	23,538	10	—	3	—	—	—	—	2	—	—	—

FOREIGN AND INSULAR.

AUSTRALIA.

Examination of rats for plague infection in Queensland—Plague rat found at Mackay.

The following information is taken from plague bulletins issued by the department of health of Queensland:

Brisbane.—Week ended April 17. Number of rodents destroyed, 462; examined, 366; found infected, 0. Week ended April 24. Number of rodents destroyed, 725; examined, 317; found infected, 0. Week ended May 1. Number of rodents destroyed, 795; examined, 627; found infected, 0.

Date of finding of last plague-infected rat September, 15, 1909.

Mackay.—One plague-infected rat found April 15, 1909.

BARBADOS.

Reports from Bridgetown—Inspection and fumigation of vessels—Status of yellow fever in the island—Sanitary conditions.

Acting Assistant Surgeon Urquhart reports, May 22 and 28:

Week ended May 22. Bills of health issued to 7 vessels, of which number 3 were fumigated. Thirty-eight passengers and 242 members of crews were inspected.

One case of yellow fever has been reported since May 15. This case is in the interior, in St. Joseph's parish, about 14 miles north of this port, and is a negro. The locality of the case is in the part of the island where by far the largest number of cases have occurred since the outbreak in December, 1908. The health and sanitary conditions of this port are very good. The sanitary regulations passed since the present outbreak of fever have been stringently enforced.

Week ended May 29. Bills of health were issued to 9 vessels. Two vessels were fumigated. Twenty passengers and 336 members of crews were inspected.

Two new cases of yellow fever were reported during the week, both being in St. Joseph's parish, about 15 miles northeast of this port, where so many of the cases have occurred during the present outbreak. Both cases were negroes.

No case of yellow fever has occurred at this port since March 19.

BRAZIL.

Reports from Rio de Janeiro—Inspection of vessels—Mortality—Plague and smallpox—History of case of yellow fever previously reported—Smallpox epidemic in Chilean coast cities.

Acting Assistant Surgeon Stewart reports, May 10 and 20:

Two weeks ended May 8. Vessels inspected and received bills of health: April 29, the British steamship *Torhead*, in water ballast for Tampa, Fla., with no passengers and no change in the crew personnel; April 30, the British steamship *Celtic Princess*, for New York, with coffee cargo, no passengers, and no change in the crew personnel; May 1, the British steamship *Tennyson*, for New York, with cargo of coffee, 25 cabin, and 36 steerage passengers, and no change in the personnel of the crew; May 4, the British steamship *Hillglade*, for some southern port via West Indies for disinfection and final orders, in water ballast, with no passengers and no change in the crew personnel; on the same date the British steamship *Desterro*, for New York, in cargo of coffee, with 7 cabin and 28 steerage passengers, and with no change in the personnel of the crew; May 7, the British steamship *Tapajos*, for New Orleans and New York, with coffee cargo, with no passengers and with no change in the crew personnel, and on the same date the British steamship *Raymore Head*, for some southern port via the West Indies for disinfection and final orders, in water ballast, with no passengers and 1 new member of the crew signed on in this port. No other vessel left this port during the period under report for United States ports.

Week ended May 15. Vessel inspected and received bill of health: May 10, the British steamship *Cavour* for New York, with cargo of coffee, no passengers, and no change in the crew.

No other vessel left this port for the United States during the period under report.

Mortality in Rio de Janeiro—Plague and smallpox.

Week ended May 2, 1909. Total estimated population, 811,443. Total deaths, 236. No deaths nor cases due to yellow fever or plague. Smallpox caused 3 deaths with 4 new reported cases. At the close of the week there were in the hospital São Sebastião, 1 case of yellow fever, carried forward from the previous week, 24 cases of smallpox, and 1 of plague under treatment.

Week ended May 9. Total deaths, 278. Smallpox caused 2 deaths. There were no cases of yellow fever reported. There were twelve new cases of smallpox reported, and 1 case of plague. At the close of the week there were in the hospital São Sebastião 29 cases of smallpox and 1 case of plague under treatment.

Week ended May 16. Total deaths, 245. No deaths nor cases reported due to either yellow fever or bubonic plague. Smallpox caused 6 deaths with 18 new reported cases. At the close of the week there were in the hospital São Sebastião 18 cases of smallpox under treatment, and 1 case of plague.

The case of yellow fever reported for the week ended May 2 as remaining in hospital (see Public Health Reports, May 28, 1909, p. 741) was in the person of a man who had been a resident of this

city for 4 months; nationality, Portuguese. The source of the infection has not been discovered.

Smallpox in Chilean coast cities.—Under date of April 28 the press reports that the minister of the interior of Chile has issued a call for all the physicians of the large cities of Chile for the purpose of discussing the best means of combating the rapid spread of smallpox in Santiago and other coast cities. A dispatch of May 9 states that the first result of this congress is the order closing all schools, public and private, in the country.

CANADA.

Report from St. John, New Brunswick—Legislation relative to combat against tuberculosis.

Consul Willrich reports May 4:

A bill has lately been enacted creating a commission to consider the best means of checking the spread of tuberculosis. The work of the commission will be first to inaugurate a vigorous campaign of education among the people, and subsequently to take such steps as may be found most conducive to checking the spread of the disease. The commission will be expected to see that proper municipal regulations are enacted and enforced to bring home to the people the dangerous nature of the spitting habit. To this end, the executive of the New Brunswick Association for the Prevention of Tuberculosis will first direct attention to perfecting organizations throughout the province by appointing vice-presidents in each county, who in their turn are expected to organize county associations. In other words, the provincial body is to be educational and advisory and the county organizations are to carry on the actual fight against the disease. There will be an annual meeting of these bodies, at which the progress made will be reported and plans for the continuous work mapped out. The New Brunswick association will also carry on its work in conjunction with the Canadian association, now active in the same cause.

It is generally realized in New Brunswick and the Dominion at large that the most energetic measures are required to combat the ravages of tuberculosis. According to estimates, in St. John alone over 100 persons and in this Province over 600 persons annually succumb to this disease, causing a loss, on the accepted basis of the economic value of a human life, of over \$600,000 per annum to this Province.

[Inclosure.]

AN ACT To assist in the prevention and cure of tuberculosis.

Whereas until a comparatively recent date tuberculosis, or consumption, as it is commonly called, was regarded as generally hereditary and incurable, but that modern discoveries have established that it is a communicable disease and to a large extent curable as well as preventable, and that since such discoveries a movement has been made in civilized countries with the view of adopting the best measures for suppressing the said disease;

And whereas, to show the widespread and fatal nature of this disease it is estimated upon the best authority available that there are in the Dominion of Canada consumptive invalids numbering at least 40,000 persons, of whom over 8,000 die annually, and aside from the humanitarian considerations involved in the question, the financial loss alone entailed upon Canada by such a large annual mortality is estimated at over \$8,000,000, and there is reason to believe that in respect to the ravages of this dread

scourge our own province suffers equally with the other provinces of the Dominion according to population;

And whereas, in view of the foregoing facts it would seem to be the duty of the province to assist in the movement now being made to lessen the widespread suffering and great mortality among the people caused by the various forms of tuberculosis, and to do so intelligently the government should be possessed of reliable and accurate information upon the subject;

Be it therefore enacted by the lieutenant-governor and legislative assembly as follows:

1. The lieutenant-governor in council is hereby empowered to appoint a commission to consist of not more than seven persons, who shall serve without remuneration, other than the payment of actual expenses, to inquire into and report upon the best methods to be adopted to prevent and cure tuberculosis, commonly called "consumption," in this province.

2. The said commission shall embody the result of its investigations, together with such recommendations as it may be pleased to make in the matter, in a report in writing and present the same to the lieutenant-governor in council.

3. The lieutenant-governor in council, upon the receipt of the report of the said commission, is hereby empowered to authorize the expenditure of a sum not exceeding \$15,000 for the purpose of defraying the expenses and carrying into effect the recommendations of the said commission, if deemed advisable, or in taking such measures for the prevention and cure of tuberculosis in this province as seems best calculated to effect that object.

4. The lieutenant-governor in council is hereby authorized to raise the moneys necessary to meet such expenditure by way of loan, and the provisions of "An act respecting the raising of loans authorized by the legislature" shall apply in respect thereto.

CHINA.

Report from Amoy—Inspection of vessels—Increase of plague—Leprosy—Plague at Am Phau.

Passed Assistant Surgeon Foster reports, May 5:

During the week ended May 1, bills of health were issued to 2 steamships. April 27, the British steamship *Sungkhang* with 62 in the crew, and 56 cabin passengers for Cebu and Iloilo was granted a supplemental bill of health. Four Chinese passengers were rejected for trachoma. May 1, the British steamship *Loongsang* with 55 in the crew, 58 cabin and 58 steerage passengers for Manila, was granted a supplemental bill of health. One steerage passenger was rejected for trachoma.

Leprosy and plague are present in the port of Amoy. With the advent of hot weather there has been a marked increase in plague. During the period April 15 to 30 the number of cases of plague was estimated to be 250, with a mortality of 50.

In the village of Am Phau adjacent to the city of Amoy there were 5 cases of plague with 3 deaths during the week ended May 1.

Reports from Shanghai—Inspection of vessels—Plague in rats—Small-pox and typhus fever at Tientsin—Relapsing fever at Hankau.

Acting Assistant Surgeon Ransom reports, May 8 and 11:

Week ended May 1. One original and one supplemental bill of health were issued to 2 steamships having an aggregate personnel of 341. There were inspected 1 vessel with 74 members of crew and 2 cabin passengers and 1 steerage passenger. There were disinfected 114 pieces of personal baggage belonging to the crew. Sixty-five Asiatics were bathed. The forecastle of 1 vessel was thoroughly cleansed. Manifests were viséed for 2,690 pieces of freight.

Reports from Tientsin for the period ended April 17 show 1 death from typhus fever, the British concession only reporting.

Reports from Hankau for the week ended April 24 state that relapsing fever is present among coolies in that city.

Week ended May 8. One original and 2 supplemental bills of health granted to 3 steamships having an aggregate personnel of 1,090. There were inspected 2 vessels, 180 members of crews, and 7 steerage passengers, and there were bathed 60 members of crews. Their effects, numbering 189 pieces of baggage, were disinfected by steam. There were also disinfected by steam and formalin 4 pieces of personal effects shipped as freight. The forecastle of 1 vessel was rendered mechanically clean.

The last report shows that 345 rats found dead were examined at the laboratory, of which 4 were found to be infected. One infected rat was found in the eastern and 3 infected rats were found in the northern district of the settlement. The rats caught numbered 899 and the traps in operation 4,670. The rats caught in traps were destroyed without being examined for plague. No houses were rat-proofed and no persons were inoculated against plague during the period.

Reports from Tientsin for the period ended April 24 show 7 cases of smallpox. The reports were from the British, French, and Japanese concessions.

Reports from Hankau for the period ended May 1 show relapsing fever among coolies.

CUBA.

Report from Cienfuegos—Inspection of vessels—Sanitary conditions.

Acting Assistant Surgeon Suarez reports, May 31:

Week ended May 29.

Vessels inspected.....	8
Bills of health issued.....	8
Members of crews inspected.....	291

The sanitary condition of the city and port is satisfactory. No quarantinable disease has been reported.

Reports from Habana—Inspection of vessels—Few Stegomyia present—Work of mosquito brigade.

Passed Assistant Surgeon Amesse reports, June 2 and 8:

Week ended May 29.

Bills of health issued.....	27
Vessels inspected.....	19
Members of crews of outgoing vessels inspected.....	1,204
Passengers of outgoing vessels inspected.....	997
Vaccination certificates issued.....	22

Breeding places of mosquitoes are more numerous, the wet season being now established. *Stegomyia* are scarce.

Week ended June 5.

Bills of health issued.....	25
Vessels inspected.....	23
Members of crews of outgoing vessels inspected.....	989
Passengers of outgoing vessels inspected.....	705

For the week ended May 29 the mosquito brigade reports 20,000 house inspections; 72 deposits contained larvæ, of which 24 were collections of *Stegomyia*.

The weather continues unusually warm, with heavy rains in the interior.

Report from Matanzas—Inspection of vessels.

Acting Assistant Surgeon Nuñez reports, June 8:

Week ended June 5. Three bills of health were granted to vessels clearing for United States ports in good sanitary condition.

No quarantinable diseases were reported.

Report from Santiago—Inspection of vessels—Leprosy.

Acting Assistant Surgeon Wilson reports, June 2:

Week ended May 29. Bills of health issued to 4 vessels bound for the United States. No vessel was fumigated. No quarantinable disease has been reported. Cases of infectious diseases reported during the week were tuberculosis, 2. Three cases of leprosy, previously reported, are still present.

GREAT BRITAIN.

Report from Hull—Plague among dock rats in February and March, 1909.

The following report by the medical officer of health of Hull, on plague in rats, dated April 14, is forwarded by Consul Ham under date of May 22:

On February 25 a representative of the North Eastern Railway and Dock Company reported that a number of dead rats had been discovered in a shed at the Albert dock.

An immediate investigation was made, resulting in the finding of 29 rats, recently dead, behind a number of bags containing maize, which had been landed per lighter from the steamship *Mikado*, which arrived at Hull from Odessa October 23, 1908, and which was medically inspected, the crew being found all well. The vessel's bill of health, dated October 3, 1908, stated that in Odessa and immediate neighborhood 20 cases of cholera had been established up to that date, 16 of which had died. It was further ascertained that a cat had been found dead in the shed referred to about two months previously, and since that discovery, and prior to February 25, about 20 dead rats had been discovered, 1 or 2 at a time. The cat had been thrown into the River Humber.

In all, 87 rats were found dead, or trapped alive.

The 29 rats collected February 25 were carefully packed, with due precautions, in properly sealed tin boxes and conveyed to the sanatorium for bacteriological examination.

The examination confirmed the suspicions entertained, as did also a subsequent examination of the rats forwarded on February 26 and 27.

The report of bacteriological examination showed that the rats exhibited no external signs of decomposition and had live fleas on them. The glands were not palpable externally, but on dissection the inguinal and axillary glands were found somewhat enlarged, but not showing any hemorrhage. In each case the spleen was much enlarged. The liver and other organs also showed signs of congestion.

Smears from the spleen and glands showed bacilli resembling *Bacillus pestis*. Cultures on blood serum were made, from which bacilli presenting all the characteristics—microscopical, staining, and cultural—of *Bacillus pestis* were obtained.

Examination of rats found March 2, 3, and 12 gave similar results.

The names and addresses of the men engaged in the warehouse were taken, and a daily medical inspection of such persons, extending over a period of three weeks, was carried out, and only the same men, as far as practicable, were employed in the infected shed and adjacent sheds during that period.

A rat catcher was employed to lay traps for the rats.

In addition to the maize, the infected warehouse contained a quantity of pease, onions, and apples in barrels, cases, and hampers, the apples contained in the cases being the articles mostly attacked by the rats. The maize and pease in the bags damaged by rats were screened and rebagged. One hundred empty bags were removed to the disinfecting station and disinfected, and 14 old and damaged bags, together with a quantity of maize, apples, and onions, were destroyed. Special precautions were observed in handling the rats dealt with, iron tongs being used for the purpose. The bodies were dipped in a 20 per cent solution of carbolic acid and afterwards cremated.

The warehouse was subjected to thorough disinfection, all refuse being sprayed with disinfectants, swept up, and destroyed, and the walls and floors sprayed with a 5 per cent solution of carbolic acid.

A circular letter has from time to time been issued to shipowners, warehousemen and others concerned, pointing out that in all the infected towns in India manifestations of contagion from rats to men have been observed, and that the first cases of plague sometimes occurred in warehouses where wheat, cottonseed, or other substances likely to attract rats are stored, and urging that every precaution should be taken for the destruction of rats with a view of preventing the possible spread of disease by the provision of disks and the tarring of mooring ropes while vessels are in port. A list giving the infected and suspicious ports is also periodically circulated, which gives instructions that all persons on board vessels arriving from such districts must be medically examined before being permitted to land.

No increased mortality and no suspicious deaths amongst rats have been observed at the other docks in port.

From December, 1908, to the end of February, 1909, 6 vessels from suspicious and plague-infected districts--namely, Alexandria and Karachi—had discharged cargo on the south side of the dock, where the infected shed is situated.

All vessels arriving from plague and cholera infected ports are medically inspected on arrival, and special inquiries are made as to the discovery of dead rats on board such vessels, but nothing to

excite suspicion has been reported. No doubtful cases of illness amongst any of the crews or passengers have been discovered.

In connection with the outbreak it is interesting to note that in a former outbreak of plague in Hull, in January, 1901, on the arrival of the steamship *Friary*, from Alexandria, at which port at that time plague was stated not to exist, a stray cat went on board the vessel at Alexandria, evidently sick and ailing. It mixed freely amongst the firemen and sailors, who were those afterwards attacked by plague. The cat was thrown overboard previous to the vessel's arrival in port. Nine members of the crew died from plague.

NOTE.—Plague on steamship *Friary* was reported in Public Health Reports, year 1901, pages 167, 264, 270, 321, 323, 370, 975.

*Report from Liverpool—Disinfection of steamship *Lanfranc* on account of yellow fever en route.*

The following is received from the Department of State, under date of June 14:

Consul at Liverpool reports, June 13, that the steamship *Lanfranc* arrived at Liverpool June 3, without any sickness on board, and with no developments on board since 4 deaths occurred from yellow fever prior to the arrival of the vessel at Lisbon. The vessel was disinfected several times during the voyage, but was not quarantined at Liverpool. Officially disinfected and given clean bill of health by port authorities. Sails June 15 for Manaos, Brazil.

NOTE.—The steamship *Lanfranc* left Para, Brazil, May 18, for Liverpool via Lisbon. (See report from Lisbon, p. 883.)

GUATEMALA.

*Report from Puerto Barrios, fruit port—*Stegomyia* not numerous.*

Acting Assistant Surgeon Ames reports:

Week ended May 29. Present officially estimated population, 350. General sanitary condition of this port and the surrounding country during the week, very good. Few *Stegomyia calopus* present.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
May 25	Chancellor.....	Mobile.....	39	0	0
25	Maria Herrera.....	Habana.....	64	4	0
26	Belize.....	Mobile.....	18	0	0
27	H. T. Inge.....	New Orleans.....	33	5	13

Baggage fumigated on board. Temperature taken of all persons.

Report from Guatemala City—Recurrence of smallpox.

Consul Kent reports, May 29:

There are 6 new cases of smallpox in the lazaretto. Smallpox was declared extinct April 25, and the smallpox hospital closed.

(See Public Health Reports, May 28, 1909, p. 746.)

HAWAII.

Report from Honolulu—Examination of rats for plague infection.

Passed Assistant Surgeon Currie reports, May 24, through Chief Quarantine Officer Hobdy:

HONOLULU.

Week ended May 22.

Total rats taken.....	590
Trapped.....	590
Found dead.....	0
Examined bacteriologically.....	487
Plague infected.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i>	88
<i>Mus musculus</i>	259
<i>Mus norvegicus</i>	145
<i>Mus rattus</i>	98
Average number of traps set daily.....	1,474
Rats from Hilo referred to this laboratory for bacteriological diagnosis.....	0
Rats from Hilo still under investigation.....	0
Rats from Hilo proved to be plague infected during week.....	0

HONDURAS.

Reports from Ceiba, fruit port—Stegomyia present—No improvement in method of sanitary work.

Acting Assistant Surgeon Jumel reports:

Week ended June 2. Present officially estimated population, 6,800. General sanitary condition of this port and the surrounding country during the week, good. *Stegomyia calopus* present. Lax methods in applied sanitary work continue.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
May 27	Concord.....	4	0	0	0
27	Navigator.....	19	1	0	0
29	Bluefields.....	23	1	0	0
30	Harald.....	20	0	0	0
30	Rosina.....	33	5	0	0
June 2	Schooner Carib II.....	7	0	3	0

Temperature of all persons on above-named vessels, sailing vessels excepted, taken at time of clearance.

Report from Tela, fruit port.

Acting Assistant Surgeon Roe reports:

Week ended May 29. Present officially estimated population, about 1,500. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
May 26	Bluefields.....	New Orleans.....	23	0	0
26	Harald.....	Mobile.....	20	0	0

INDIA.

Report from Calcutta—Transactions of Service—Cholera, plague, and smallpox—Plague in Bengal.

Acting Assistant Surgeon Allan reports May 13:

During the week ended May 8 bill of health was issued to the steamship *Gutenfels*, bound for Philadelphia and New York with a total crew of 70, and to the steamship *Bloemfontein*, bound for Boston and New York with a total crew of 63. The usual precautions were taken—the holds fumigated, rat guards placed on the wharf lines, and the Asiatics' effects disinfected.

During the week ended May 1 there were 105 deaths from cholera, 127 from plague, and 100 from smallpox in Calcutta.

In Bengal during the same week there were 268 cases of plague, with 212 deaths.

ITALY.

Report from Naples—Inspection of vessels—Examination of emigrants—Smallpox in Naples—Status of smallpox in Italy.

Assistant Surgeon Wollenberg reports, May 24:

Vessels inspected at Naples and Palermo, week ended May 22

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
May 18	Principe di Piemonte.....	New York.....	363	40	580
19	Belle of Scotland.....	Norfolk.....	902	120	1,200
19	Germania.....	New York.....	1,138	180	1,550
19	Finland.....	do.....	749	30	520
20	Campania.....	do.....	1,026	130	1,350
21	Neckar.....	do.....	1,291	180	1,520
21	America.....	do.....	852	150	1,100
22	Moltke.....				
	Total.....		6,321	830	7,820

PALERMO.

May 19	Principe di Piemonte.....	New York.....	244	290	90
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Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
May 18	Principe di Piemonte.....	13		6		2	21
	Belle of Scotland.....						
	Germania.....	20	1	7	1	9	38
	Finland.....	35	3	18	1	14	71
	Campania.....	5	2	1	1	1	10
	Neckar.....	17	6	16		7	46
	America.....	38	4	26		7	75
	Moltke.....	32	2	11		8	53
	Total.....	160	18	85	3	48	314

PALERMO.

May 19	Principe di Piemonte.....	10		10			20
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Smallpox in Naples.—During the week ended May 23, 14 cases of smallpox with 3 deaths reported at the health office of the city of Naples.

Status of smallpox in Italy.—Week ended May 23: Cases: Binasco (Milan) 2; Novara 1; Prato (Florence) 1; Ospitaletto (Avellino) 1; Caserta 8; Venosa (Polenza) 2.

JAPAN.

Report from Yokohama—Emigrants recommended for rejection.

Passed Assistant Surgeon Cumming reports:

Number of emigrants per steamship *Minnesota*, May 21, for Seattle, recommended for rejection 1; held for observation 6. Per steamship *China*, May 22: For Honolulu, rejected 1; held for observation 2. For San Francisco, held for observation 1. Rejections and detentions were for trachoma.

Report from Kobe—Inspection of vessels—Examination of emigrants.

Acting Assistant Surgeon Knight reports, May 18:

During the week ended May 15, supplemental bill of health was granted to 1 steamship; 492 steerage passengers were inspected; 29 steerage passengers were bathed and disinfected. Their effects were disinfected by steam. The number of pieces of baggage steamed was 67 and of bedding 59. Manifests were viséed for 22,629 pieces of freight, amounting to 1,895 tons.

Emigrants were examined as follows: Steamship *Siberia*, for Honolulu, passed 27; recommended for rejection 19; steamship *Siberia* for San Francisco, passed 2, recommended for rejection 4.

MEXICO.

Report from Coatzacoalcos—Inspection of vessels.

Acting Assistant Surgeon Thompson reports, June 3:
During the week ended June 2, 4 steamships were inspected.

Report from Mexico City—Yellow fever at Merida.

The following information is received from the acting president of the Superior Board of Health of Mexico, under date of June 7:

Week ended June 5. Two cases of yellow fever were registered at Merida on May 30 and June 2, respectively. The prophylactic measures previously reported are carried out.

Report from Progreso—Inspection and fumigation of vessels—Sanitary conditions—Yellow fever case at Merida.

Acting Assistant Surgeon Harrison reports, May 29:

Period from May 15 to May 29.

Vessels inspected.....	8
Members of crews.....	301
Vessels fumigated, included above.....	5
Passengers from this port for United States.....	30

Sanitary conditions have been fair, and no quarantinable disease has appeared in Progreso. Drinking water is scarce, no rain of any amount having fallen since April 13. Mosquitoes are not conspicuous. In Merida there was one case of confirmed yellow fever imported from an interior town and isolated in lazaretto of Merida. This case has been discharged.

(See Public Health Reports, June 4, 1909, p. 791.)

Report from Salina Cruz—Fumigation of vessel.

Acting Assistant Surgeon Gochicoa reports, May 31:
During the week ended May 29 one steamship, bound for San Diego, Cal., was fumigated.

Report from Tampico—Inspection and fumigation of vessels—Sanitary conditions—Few mosquitoes.

Acting Assistant Surgeon Stowe reports, June 3:

Week ended June 2.

Vessels inspected and passed.....	2
Bills of health issued.....	2
Members of crews of outgoing vessels inspected.....	46
Passengers of outgoing vessels inspected.....	2
Vessels fumigated.....	0

No cases of quarantinable disease occurred during this period.

The hot, dry weather of the past 4 months continues. There are very few mosquitoes.

This port is free from smallpox, although the disease is reported to be still prevalent in the surrounding country.

Report from Veracruz—Inspection and fumigation of vessels—Smallpox case, imported—Antimosquito work—Quarantine against Mexican coast towns.

Acting Assistant Surgeon Carter reports, May 31:

Week ended May 30.

Bills of health issued.....	9
Vessels inspected.....	3
Vessels fumigated.....	6
Members of crews inspected.....	403
Passengers inspected.....	184

No sickness occurred on board these vessels while in the harbor, except one case of malarial fever (intermittent) on steamship *City of Mexico* from Galveston. No contagious diseases were reported for the week, except one new case of smallpox, imported from Yucatan. This case was imported on a steamship, was promptly isolated in the pest house, and died the next day. This case makes 2 cases for the month of May, with 1 death. No new cases have been reported. No cases of yellow fever have been reported. Antimosquito work is still being carried on with fair regularity. Veracruz is maintaining a quarantine against Mexican coast towns, especially Laguna, Laguna de Terminos, and localities on the coast of Yucatan.

PERU.

Report from Callao—Inspection and fumigation of vessels—Status of plague in Peru—Typhus fever imported from interior into Callao and Lima—Plague in Chilean ports.

Acting Assistant Surgeon Gutierrez reports, May 24:

Two weeks ended May 8. During the week ended May 1, 1 steamship was fumigated. She carried an aggregate personnel of 84 members of crew, and 63 cabin and 7 steerage passengers. During the week ended May 8, 3 vessels were fumigated. They carried an aggregate personnel of 152 in the crew, and 77 cabin and 43 steerage passengers.

The following is the latest report received from the Director de Salubridad Pública:

Locality.	Cases, Apr. 16.	New.	Recov- ered.	Died.	Remain- ing May 6.
Department of Lima.....	17	18	15	6	14
Department of Callao.....	4	4	3	2	3
Department of Libertad.....	24	2	16	1	9
Department of Lambayeque.....	27	13	5	8	27
Department of Arequipa.....	2	3	0	1	4
Department of Cajamarca.....	18	17	17	14	4

From May 1 to 21, 3 cases of plague occurred at Callao; no cases of smallpox. Several cases of typhus fever have come down from the interior to Callao and Lima.

Bills of health report plague in Chile as follows: Iquique, May 8, 20 cases isolated in the lazaretto, and 14 cases with 6 deaths in the past 2 weeks. Antofagasta, May 1, 5 cases isolated in the lazaretto; Arica, May 13, several cases.

PORTO RICO.

Report from Ponce—Transactions of service, month of May, 1909.

Acting Assistant Surgeon Ferrer-Torres reports, June 1, through Chief Quarantine Officer Grubbs:

Month of May, 1909.

Vessels inspected.....	14
Disinfected.....	1
In quarantine.....	2
Passengers inspected:	
Incoming.....	119
In transit.....	1,031
Immigrants inspected.....	30
Rejections.....	0
Members of crews inspected.....	738
Bills of health issued.....	30
Passengers detained in quarantine.....	0

PORTUGAL.

Report from Lisbon—Quarantine of passenger from steamship Lanfranc.

The following is received from the consul-general at Lisbon, through the Department of State, under date of June 14:

Passenger from steamship *Lanfranc* quarantined promptly on other side of the Tagus. Is now convalescent.

(See report from Liverpool, p. 877.)

RUSSIA.

Report from Libau—Status of cholera at St. Petersburg—Examination of emigrants.

Acting Assistant Surgeon De Forest reports, May 28:

Four cases of cholera occurred at St. Petersburg during the week ended May 27; no deaths. There have been no new cases or deaths during the past 5 days.

Three hundred and thirty-four emigrants have been examined for the next steamship which sails June 5. No cases of quarantinable disease were found among them.

ST. LUCIA ISLAND.

Reports from Castries—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Maylie reports, May 10, 17, 25, and 31: Week ended May 8. Four vessels inspected. Of this number 3 were fumigated.

Week ended May 15. One vessel inspected and fumigated.

Week ended May 22. Two vessels inspected; 1 vessel fumigated.

Week ended May 29. Three vessels inspected.

Sanitary condition of this port and vicinity good.

No quarantinable diseases were reported.

SIAM.

Report from Bangkok—City declared free from smallpox.

Vice Consul-General Hansen reports, April 28:

The minister of foreign affairs forwards, under date of April 26, a statement from the medical officer of health of Bangkok declaring the city free from smallpox.

VENEZUELA.

Reports from Caracas—Status of plague.

The following is received from the Department of State, under date of June 10:

A telegram, dated June 9, has been received from the American minister at Caracas, reporting as follows:

"Two additional cases of plague since last cable; 4 deaths in all."

Measures against plague—Preventive inoculation.

Consular Agent Brewer reports, June 3:

Sanitary inspection of public buildings and private houses is being carried on, and orders have been issued for paving with cement the floors of all stables and similar structures. The burning of garbage is compulsory. To date 3,733 persons have been treated with Haffkine lymph. Rats and mice are being destroyed in great numbers. A special isolation hospital is being constructed.

Consul Manning, at La Guaira, reports, May 30, that no one is allowed to leave Caracas by any route without previous injection with Haffkine's lymph.

Reports from La Guaira—Yellow fever death at Maiquetia—Sanitary work—Examination of rats for plague infection—Preventive inoculation.

Consul Manning reports, May 24 and 30:

May 24. A fatal case of yellow fever occurred at Maiquetia May 24. The house in which the case occurred was fumigated, and the clothing and effects of the inmates were disinfected. There has been no spread of the disease.

Some effort has been made to capture rats for examination for plague infection, but no results have been reported. No quarantinable diseases exist at this port, with the exception of cases of leprosy in the lazaretto. No cases of plague have occurred here during the past month, and no rat plague is apparent, as no dead rats are found.

May 30. Sanitary work in La Guaira is being carried on actively, and Haffkine's lymph is being used freely for prophylaxis.

FOREIGN AND INSULAR STATISTICAL REPORTS OF COUNTRIES AND CITIES—UNTABULATED.

AFRICA—*Lourenço Marquez*.—Month of March, 1909. Estimated population, 10,000. Total number of deaths, 42, including 12 from pulmonary tuberculosis.

Transvaal—*Johannesburg*.—Four weeks ended May 1, 1909. Estimated population, 180,687. Total number of deaths, 320, including enteric fever 24, scarlet fever 2, measles 4, whooping cough 3, diphtheria 2, and 43 from tuberculosis.

AUSTRALIA—*Brisbane*.—Month of March, 1909. Estimated population, 119,428. Total number of deaths, 139, including enteric fever 1, measles 1, diphtheria 2, and 12 from pulmonary tuberculosis.

The State of South Australia, including the city of Adelaide.—Four weeks ended April 3, 1909. Estimated population: State, 394,692; city, 40,185. Total number of deaths, 274, including enteric fever 9, diphtheria 2, and 32 from tuberculosis. Cases: Enteric fever 48, scarlet fever 8, diphtheria 74, and tuberculosis 80.

State of Victoria, including the city of Melbourne.—Two months ended May 1, 1909. Estimated population of State, 1,237,998; city, 526,400. Total number of deaths not reported. Deaths from contagious diseases were: Enteric fever 54, scarlet fever 15, and 3 from diphtheria. Cases: Enteric fever 691, scarlet fever 1,653, diphtheria 320.

BRAZIL—*Ceara*.—Month of April, 1909. Estimated population, 55,000. Total number of deaths, 126, including scarlet fever 10 and 20 from tuberculosis.

CANADA—*Ontario—Hamilton*.—Month of May, 1909. Estimated population, 70,000. Total number of deaths, 79, including scarlet fever 2, diphtheria 1, whooping cough 2, and 7 from tuberculosis. Cases: Scarlet fever 29, diphtheria 9, measles 14, and whooping cough 22.

CUBA.—Month of February, 1909. Estimated population, 2,159,-027. Total number of deaths, 2,155, including enteric fever 13, measles 8, whooping cough 9, diphtheria 16, leprosy 4, and 291 from tuberculosis.

Habana.—Month of March, 1909. Estimated population, 333,158. Total number of deaths, 534, corresponding to a death rate of 18.85 per 1,000 of population, including enteric fever 7, measles 7, scarlet fever 2, diphtheria 2, leprosy 2, and 78 from tuberculosis.

FRANCE—*St. Etienne*.—Two weeks ended May 15, 1909. Estimated population, 150,000. Total number of deaths, 115, including scarlet fever 2, diphtheria 2, and 15 from tuberculosis.

GREAT BRITAIN—*England and Wales*.—The deaths registered in 76 great towns in England and Wales during the two weeks ended May

22, 1909, correspond to an annual rate of 14.2 per 1,000 population, which is estimated at 16,234,952.

London.—Two thousand five hundred and eleven deaths were registered during the two weeks, including measles 106, scarlet fever 18, diphtheria 23, enteric fever 6, whooping cough 72, tuberculosis 296, and 18 from diarrhea. The deaths from all causes correspond to an annual rate of 13.55 per 1,000. In Greater London 3,562 deaths were registered. In the "outer ring" the deaths included 23 from measles, 6 from diphtheria, 20 from whooping cough, 7 from scarlet fever, and 2 from enteric fever.

Salford.—Annual report for the year 1908. Estimated population, 239,294. Total number of deaths, 4,356, corresponding to a death rate of 17.9 per 1,000 of population, including measles 168, scarlet fever 65, whooping cough 103, diphtheria 125, enteric fever 42, and 544 from tuberculosis.

Ireland.—The average annual death rate represented by the deaths registered during the two weeks ended May 22, 1909, in the 21 principal town districts of Ireland was 20.4 per 1,000 of the population, which is estimated at 1,131,959. The lowest rate was recorded in Drogheda, viz, 4.1, and the highest in Lurgan, viz, 39.8, per 1,000.

Scotland.—The deaths registered in 8 principal towns during the two weeks ended May 22, 1909, correspond to an annual rate of 16.2 per 1,000 of the population, which is estimated at 1,839,038. The highest rate of mortality was recorded in Paisley, viz, 28.9, and the lowest in Perth, viz, 10.3, per 1,000. The aggregate number of deaths registered from all causes was 1,156, including diphtheria 11, enteric fever 1, scarlet fever 6, whooping cough 55, and 13 from measles.

JAMAICA.—Annual report for the year ended March 31, 1908. Total number of deaths, 23,672, corresponding to a death rate of 28.3 per 1,000 of population, which is estimated at 834,012. The total number of deaths include 150 from measles, 1 from scarlet fever, 2 from typhus fever, 2 from whooping cough, 4 from diphtheria, 223 from enteric fever, 30 from leprosy, and 1,523 from tuberculosis.

MADAGASCAR—Tamatave.—Month of April, 1909. Estimated population, 7,086. Total number of deaths, 18. No deaths were reported from contagious diseases.

NEW ZEALAND—Auckland.—Month of March, 1909. Estimated population, 75,345. Total number of deaths, 83, including enteric fever 1, diphtheria 2, and 3 from tuberculosis.

Wellington.—Month of March, 1909. Estimated population, 73,697. Total number of deaths, 67, including enteric fever 1, and 5 from tuberculosis.

Christchurch.—Month of March, 1909. Estimated population, 62,096. Total number of deaths, 50, including 3 from tuberculosis.

Dunedin.—Month of March, 1909. Estimated population, 61,279. Total number of deaths, 45, including 1 from diphtheria.

WEST INDIES—Curaçao.—Month ended May 28, 1909. Estimated population, 30,000. Total number of deaths, 17. Cause of deaths not reported.

Cholera, yellow fever, plague, and smallpox, from December 26, 1908, to June 18, 1909.

[Reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State and from other sources.]

[For reports received from June 26, 1908, to December 25, 1908, see PUBLIC HEALTH REPORTS for December 25, 1908.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Nov. 15-Jan. 2.....	16	13	
China:				
Hongkong.....	Dec. 28-Jan. 16.....	2	2	
India:				
Bombay.....	Dec. 9-May 18.....	398		
Calcutta.....	Nov. 1-May 8.....	1,194		
Madras.....	Nov. 14-Apr. 9.....	61		
Negapatam.....	Oct. 31-Apr. 23.....	48		
Rangoon.....	Nov. 8-May 8.....	94		
Indo-China:				
Choleng.....	Nov. 9-15.....	1	1	
Saigon.....	Mar. 1-May 1.....	3	2	
Persia:				
Tabriz.....	Oct. 9-Dec. 28.....	1,003	500	
Philippine Islands:				
Manila.....	Nov. 1-Jan. 2.....	84	56	Third quarter, 1908, 673 cases and 458 deaths.
Provinces.....				Third quarter, 1908, 17,619 cases and 11,115 deaths.
Antique.....	Nov. 1-Jan. 16.....	260	163	
Bataan.....	Nov. 1-7.....	1	1	
Bohol.....	Dec. 20-Apr. 24.....	551	272	
Bulacan.....	Nov. 1-Feb. 27.....	82	71	
Cagayan.....	Nov. 1-Apr. 10.....	175	108	
Capiz.....	Nov. 1-Apr. 17.....	1,535	873	
Cavite.....	Nov. 1-Feb. 20.....	110	81	
Cebu.....	Dec. 20-Apr. 24.....	38	21	
Ilocos Norte.....	Nov. 1-Jan. 16.....	335	235	
Ilocos Sur.....	Nov. 1-Jan. 2.....	207	140	
Ilollo.....	Nov. 1-Apr. 17.....	495	155	
Isabela.....	Jan. 24-Apr. 24.....	21	12	
Laguna.....	Nov. 1-Mar. 6.....	119	81	
Leyte.....	Nov. 1-Mar. 6.....	158	125	
Misamis.....	Apr. 11-17.....	26	13	
Negros Occidental.....	Nov. 1-Apr. 24.....	606	341	
Nueva Ecija.....	Feb. 14-20.....	1	1	
Palawan.....	Nov. 1-Dec. 19.....	10	5	
Pampanga.....	Nov. 1-Apr. 10.....	105	78	
Pangasinan—				
Taytay.....	Apr. 10-17.....	9		
Rizal.....	Nov. 1-Apr. 17.....	249	218	
Samar.....	Nov. 1-Mar. 13.....	196	223	
Sorsogon.....	Jan. 10-Apr. 24.....	136	93	
Surigao.....	Nov. 15-Jan. 12.....	7	4	
Union.....	Nov. 1-Jan. 12.....	12	8	
Zambales.....	Dec. 6-12.....	3	3	
Russia, general.....	Nov. 15-May 22.....	4,085	1,792	Dec. 1, 3 cases are reported present at Riga. From 1 to 4 cases are reported weekly from the following places: Schuscka, Dneprowsk (Simeferopol), Bisk, Smeinogorsk, Barnoul, Pokrowsk, Jusowska, Etsch-miadsin, and Dorpat.
Aknolinsk.....	Nov. 15-Jan. 23.....	34	13	
Bakoo.....	Nov. 22-28.....	3	2	
Batsoo.....	Nov. 15-21.....	4	2	
Charkov.....	Dec. 6-Mar. 13.....	6	1	
Cronstadt.....	Nov. 15-Jan. 16.....	3	1	
Don, territory of.....	Nov. 15-Mar. 6.....	190	97	
Ekaterinislav.....	Nov. 15-Dec. 26.....	27	11	
Erivan.....	Dec. 1-31.....	28	21	
Helsingfors.....	Jan. 10.....	2	1	In vicinity.
Jaroslav.....	Feb. 7-Mar. 20.....	63	28	
Kherson.....	Nov. 15-Dec. 19.....	2		
Kief.....	Nov. 15-Dec. 12.....	11	1	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia, general—Continued.				
Koochan.	Nov. 15-Jan. 2....	139	76	
Kostroma.	Dec. 6-12....	1		
Livonia.	Nov. 15-21....	2	1	
Moscow district.	Dec. 6-Jan. 30....	8	8	
Moscow.	Jan. 17-23....	1	1	Including Brownitzia.
Odessa.	Nov. 29-Dec. 12....	2	2	Imported.
Olonets.	Nov. 21-28....	1	1	
Poltava.	Nov. 29-Dec. 5....	3		
Romanov-Borisoglyebsk.	Mar. 10....			Present.
Rybinsk.	Mar. 13....	7		
Samara gov't dist.	Nov. 29-Dec. 5....	7	7	
Samarcand.	Dec. 6-12....	10	7	In vicinity.
Saratov.	Nov. 15-Dec. 12....	11	6	Mar. 21, 1 case.
Semipalatinsk, territory of.	Dec. 19-26....	1		
Stavropol.	Nov. 15-21....	1		
St. Petersburg, government	Nov. 15-Mar. 19....	35		
St. Petersburg.	Nov. 29-May 22....	2,372	725	May 27, still present.
Tambov.	Nov. 15-Dec. 12....	16	8	
Tavride.	Nov. 15-Dec. 19....	9	5	
Terek, territory of.	Nov. 15-Dec. 19....	99	62	
Tiflis.	Nov. 15-21....	9	4	
Tomsk.	Nov. 15-Jan. 23....	102	48	
Toula.	Feb. 21-Mar. 6....	7	2	
Tver district.	Nov. 15-Dec. 5....	4		
Volgoda.	Dec. 6-12....	1		
Yelisavetpol.	Nov. 26-Dec. 5....	5	10	
Siam:				
Bangkok.	Nov. 1-Apr. 24....	2	1	
Straits Settlements:				
Penang.	Feb. 27....	1		From s. s. Sunki Maru.
Singapore.	Nov. 8-Apr. 24....		167	

YELLOW FEVER.

Barbados, general.	Dec. 12-May 22....	73	22	Including the parishes of St. Andrew, St. John, St. Joseph, St. Lucy, St. Michael, and St. Thomas.
Bridgetown.	Dec. 12-Mar. 20....	11		
Speightstown.	Mar. 7....	1		
Brazil:				
Bahia.	Nov. 15-May 7....	201	79	
Manaos.	Nov. 29-May 15....		20	
Para.	Nov. 22-May 22....		83	
Pernambuco.	Nov. 15-Mar. 15....		3	
Rio de Janeiro.	Apr. 18-25....	1		
Colombia:				
Cartagena.	Jan. 8-14....	1	1	
Cuba:				
Oriente Province— San Luis.	Jan. 1-2....	2	1	These cases were removed Dec. 2, and 29, respectively, to Santiago, where 1 case died Dec. 31.
Curacao.	Jan. 15....	1		
Dutch Guiana:				
Paramaribo.	Dec. 1-Jan. 27....	32	8	
Ecuador:				
Guayaquil.	Nov. 29-May 15....		152	
Martinique:	Dec. 13-Mar. 6....	5	1	
Fort de France.				
Mexico:				
Izincal plantation.	Dec. 6-12....	2	2	
Maxcanu.	Dec. 6-Jan. 23....	5	4	Aug. 22-Dec. 18, 5 cases not previously reported.
Merida.	Dec. 6-June 2....	19	8	May 19, 1 case from Tekax.
San Bernardo plantation.	Dec. 27-May 1....	8	4	
Sodzil plantation.	Dec. 13-Jan. 2....	7	5	
Ticul.	Feb. 1-Apr. 13....	4	2	
Veracruz.	Dec. 6-Feb. 13....	13	6	
Portugal:				
Lisbon.	June 1....	1		In quarantine from s. s. Lanfranc; 4 deaths en voyage from Para, from May 18.
Trinidad:				
Port of Spain.	Jan. 20....		1	
Venezuela:				
Maquetia.	May 24....	1	1	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAQUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Mascat.....	Apr. 16.....	1.....	1.....	From s. s. Agrica.
Azores:				
Feyal.....	Apr. 1.....	1.....		Sept. 22-Mar. 31, 10 cases additional.
Terceira.....	Mar. 31-Apr. 30.....	19.....	7.....	
Australia:				
Brisbane.....	Nov. 1-7.....	1.....	1.....	
Newcastle.....	Mar. 1-31.....	1.....		
Sydney.....	Mar. 6-27.....	13.....	4.....	
Belgium:				
Antwerp.....	Apr. 11.....	3.....		In quarantine at Doel from s.s. Rubens.
Brazil:				
Bahia.....	Nov. 15-Apr. 30.....	61.....	28.....	
Para.....	Jan. 24-Feb. 6.....		2.....	
Pernambuco.....	Nov. 1-Dec. 31.....		10.....	
Rio de Janeiro.....	Nov. 16-May 9.....	79.....	36.....	
Chile:				
Antofagasta.....	Feb. 28-Apr. 17.....	42.....		May 1, 5 cases in lazaretto.
Arica.....	Mar. 9.....			Present. May 13, again present.
Iquique.....	Jan. 1-May 8.....	77.....	28.....	Year 1908, 133-70; May 8, 20 cases in the lazaretto.
Magillones.....	Mar. 9-10.....	70.....		
Taltal.....	Feb. 11.....			Present.
China:				
Amoy.....	Mar. 6-Apr. 30.....	251.....	50.....	Apr. 17, present in vicinity, and present at Wuchang in September.
Am Phau.....	Apr. 1-30.....	5.....	3.....	
Canton.....	Mar. 6-May 1.....	115.....	80.....	
Changchew.....	Apr. 3.....			Epidemic.
Chinchew.....	Mar. 7-Apr. 3.....			Present.
Fukien Province, Chang Poo.....	Mar. 7-Apr. 26.....			Epidemic.
Hankau.....	Nov. 30-Dec. 5.....	1.....	1.....	On river boat Loongwo.
Hongkong.....	Nov. 8-Apr. 3.....	31.....	23.....	
Tamchou.....	Dec. 19.....			Vicinity of Hainan; present.
Tientsin.....	Oct. 18-Nov. 21.....			Present. Feb. 16, again present.
Tongshan.....	Nov. 1-14.....			Present.
Ecuador:				
Babohoyo.....	Jan. 16-Mar. 27.....	5.....		
Guayaquil.....	Nov. 29-May 15.....		128.....	
Milagro.....	Nov. 17-Jan. 18.....	18.....	8.....	
Nisag.....	Jan. 16.....	7.....		
Totte.....	Dec. 25-Jan. 17.....	30.....	20.....	
Egypt:				
Alexandria.....	Nov. 14-May 3.....	5.....	1.....	
Port Said.....	Dec. 4-May 23.....	8.....	5.....	
Suakin.....	Feb. 1.....	1.....		On s.s. Huriet II.
Provinces—				
Assiout.....	Dec. 2-May 13.....	32.....	25.....	
Beherach.....	Nov. 24-Dec. 26.....	11.....	6.....	
Benisouef.....	May 24.....	1.....		
Dakaklieh.....	Feb. 4-Mar. 20.....	6.....	6.....	
Galvoobeeyah.....	Nov. 21-May 10.....	4.....		
Garbieh.....	Nov. 27-May 25.....	11.....	3.....	
Girgeh.....	Oct. 18-Mar. 14.....	8.....	8.....	
Fayoun.....	Nov. 23-May 26.....	44.....	23.....	
Menouf.....	Nov. 27-Jan. 17.....	155.....	35.....	
Minieh.....	Nov. 25-May 16.....	22.....	11.....	
German East Africa:				
Dar-es-Salaam.....	Oct. 10-Jan. 7.....	7.....	5.....	
Muanza.....	Apr. 14.....		60.....	
Great Britain:				
Eustree.....	Feb. 3-4.....	1.....	1.....	At plague laboratory.
India:				
Bombay Presidency and Sind.....	Nov. 2-Apr. 24.....	25,872.....	18,840.....	
Madras Presidency.....	Nov. 2-Apr. 24.....	1,260.....	899.....	
Bengal.....	Nov. 2-Apr. 24.....	6,716.....	5,671.....	
United Provinces.....	Nov. 2-Apr. 24.....	12,082.....	10,515.....	
Punjab.....	Nov. 2-Apr. 24.....	26,350.....	21,096.....	
Burma.....	Nov. 2-Apr. 24.....	5,943.....	5,607.....	
Central provinces, including Berar.....	Nov. 2-Apr. 24.....	6,566.....	5,201.....	
Coorg.....	Nov. 2-Dec. 17.....	5.....	3.....	
Mysore State.....	Nov. 2-Apr. 24.....	3,023.....	2,184.....	
Hyderabad State.....	Nov. 2-Apr. 24.....	640.....	536.....	
Central India.....	Nov. 2-Apr. 24.....	819.....	636.....	
Rajputana.....	Nov. 2-Apr. 24.....	4,677.....	4,160.....	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAQUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India—Continued.				
Kashmir.....	Mar. 14—Apr. 24.....	23	12	
Northwest Province.....	Mar. 21—Apr. 27.....	2	.....
Grand total.....		93,978	75,360	
Bahrein Island, Persian Gulf	May 12.....	3	1	
Indo-China:				
Cholon.....	Oct. 25—Dec. 19.....	12	11	Including Chuquan.
Saigon.....	Oct. 25—May 1.....	40	43	
Japan:				
Amagasaki.....	Feb. 27.....	.....	.....	Present.
Awaji Island, Sumoto.....	Feb. 27.....	.....	.....	Do.
Formosa.....	Nov. 3—May 8.....	767	314	Mainly in the central and south central part.
Himeji.....	Apr. 30.....	1	1	
Higo, prefecture.....	.....	.....	.....	Year 1908, 219 cases additional.
Kagi, prefecture.....	Jan. 16.....	5	.....
Kagoshima, prefecture.....	Feb. 6.....	1	.....
Kioto.....	Apr. 24.....	1	1	
Kobe.....	Jan. 20—Apr. 30.....	9	7	3 cases from s.s. Ghazee. Feb. 27, again present. Apr. 3, 1 case in vicinity.
Mikagi.....	Feb. 27.....	.....	.....	Present.
Nara, prefecture.....	.....	.....	.....	Year 1908, 2 cases additional.
Nishinomiyia.....	Jan. 6.....	1	.....	Year 1908, 53 cases. Feb. 28, still present.
Osaka.....	Dec. 22—May 1.....	4	2	Year 1908, 59 cases additional. Case Jan. 29, on s.s. Shinkochi Maru.
Tokushima, prefecture.....	.....	1	.....	Year 1908.
Yokohama.....	May 17.....	9	3	
Yura.....	.....	116	83	Do.
Mauritius.....	Oct. 2—Jan. 31.....	.....	115	
Persia:				
Bushire.....	Apr. 30.....	.....	10	On a vessel.
Peru:				
Arequipa, department.....	Feb. 19—May 6.....	10	5	
Molendo.....	Nov. 1—Feb. 18.....	1	5	
Cajamarca, department.....	Feb. 19—May 6.....	84	56	
Cascas.....	Feb. 12—18.....	12	5	
Chota.....	Jan. 22—Feb. 18.....	8	8	
Callao, department.....	Feb. 19—May 6.....	17	9	
Callao.....	Nov. 13—Feb. 18.....	18	11	April 21, present.
Lambayeque, general.....	Feb. 19—May 6.....	79	27	
Chiclayo.....	Nov. 13—Feb. 18.....	44	23	
Eten.....	Nov. 13—Dec. 31.....	11	10	
Jayanca.....	Feb. 4.....	12	.....
Lambayeque.....	Feb. 18—Mar. 4.....	6	5	
Motupe.....	Dec. 17—Jan. 14.....	2	.....
San Jose.....	Nov. 13—Dec. 3.....	2	.....
Zafra.....	Jan. 14—Feb. 18.....	4	2	
Libertad, department.....	Feb. 19—May 6.....	62	22	
Casma.....	Feb. 4.....	1	1	
Chepen.....	Nov. 27—Feb. 18.....	19	6	
San Pedro.....	Nov. 13—Feb. 18.....	28	21	
Trujillo.....	Nov. 13—18.....	153	70	
Lima, department.....	Feb. 19—May 6.....	53	19	
Chorrillos.....	Jan. 22—Feb. 4.....	2	2	
Lima.....	Nov. 13—Feb. 13.....	50	19	
Huarochiri, Matucana, Surco.....	Feb. 4.....	15	.....
Piura, department.....	Feb. 19—Mar. 4.....	2	1	
Catacos.....	Dec. 11—Feb. 18.....	7	.....
Paita.....	Dec. 11—Jan. 14.....	3	2	
Piura.....	Dec. 11—Jan. 14.....	6	4	
Russia:				
Libau.....	Mar. 30—Apr. 5.....	1	.....
Siam:				
Bangkok.....	Sept. 27—Apr. 24.....	16	8	
Straits Settlements:				
Singapore.....	Nov. 30—Apr. 24.....	6	6	
Trinidad:				
Port of Spain.....	May 27.....	.....	1	
Turkey in Asia:				
Bagdad.....	Nov. 6—May 18.....	19	7	
Beirut.....	Dec. 17—Jan. 9.....	5	5	
Jiddah.....	Dec. 12—Apr. 25.....	178	160	
Venezuela:				
Caracas.....	May 20—June 9.....	8	4	
Zanzibar.....	Nov. 10.....	1	1	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	Dec. 1-Apr. 30.....	113		
Bona.....	Jan. 1-Apr. 30.....	80	47	
Arabia:				
Aden.....	Nov. 25-Feb. 22.....		74	
Argentina:				
Buenos Aires.....	Oct. 1-Feb. 28.....		5	
Australia:				
New South Wales—				
Newcastle.....	Nov. 1-30.....	1		
Austria:				
Bohemia.....	Jan. 31-May 1.....	9		
Galicia.....	Dec. 20-May 15.....	12		
Silesia.....	Jan. 3-May 1.....	6		
Trieste.....	Mar. 21-27.....	1		
Barbados:				
Bridgetown.....	May 1.....	1		From s. s. Parima.
Brazil:				
Bahia.....	Nov. 15-May 7.....	358	39	
Para.....	Feb. 14-Mar. 27.....	3	2	
Pernambuco.....	Nov. 1-Mar. 15.....		118	
Rio de Janeiro.....	Nov. 16-May 16.....	1,449	709	
Santos.....	Nov. 1-Dec. 20.....		19	
São Paulo.....	Nov. 1-May 2.....		66	
British Honduras:				
Stann Creek.....	Feb. 5-Mar. 10.....	6	1	32 miles south of Belize.
British South Africa:				
Cape Town.....	Dec. 28-Mar. 13.....	5		
Durban.....	Mar. 20-27.....	1		
East London.....	Apr. 10-17.....	1	1	From s. s. Elleric.
Canada:				
British Columbia—				
Vancouver.....	Dec. 1-Apr. 30.....	8		
Victoria.....	Dec. 12-Feb. 28.....	28	4	
Manitoba—				
Winnipeg.....	Dec. 20-May 29.....	8		
Ontario, Province, general:				
Hamilton.....	Dec. 1-31.....	118		
Toronto.....	Jan. 17-23.....	1		
Nova Scotia—				
Halifax.....	Nov. 8-May 15.....	26		
Tusketwedge.....	Dec. 13-June 5.....	88		
Yarmouth.....	Feb. 13.....	1		
Quebec—				
Montreal.....	Dec. 1-May 29.....	32		Revised.
Quebec.....	Dec. 26-Jan. 2.....	1		
Ceylon:				
Colombo.....	June 5.....	1		At Grosse Isle from s. s. Virginian.
Chile:				
Concepcion.....	Nov. 1-May 8.....	206	4	
Santiago.....	Jan. 15-31.....	1		Epidemic in suburbs.
Talcahuano.....	Apr. 27.....			Present in vicinity.
Valparaiso.....	Nov. 20-Jan. 28.....			
Dec. 6-19.....	2			
China:				
Amoy, Kulangsu.....	Oct. 11-Nov. 8.....		2	May 1, still present.
Canton.....	Mar. 6-May 1.....	95		
Hankau.....	Mar. 20.....			Present.
Hongkong.....	Jan. 3-Apr. 3.....	18	6	
Shanghai.....	Nov. 11-May 1.....	7	7	3 cases Nov. 11-Dec. 28 from U. S. transport Seward, case Apr. 17 from s. s. Helena.
Tientsin.....	Jan. 17-May 8.....	19	2	
Cuba:				
Cienfuegos.....	Mar. 6.....	1		Case Dec. 26 on s. s. Florida, case
Habana.....	Dec. 26-Apr. 3.....	5		Jan. 19 on s. s. Alfonso XIII, case Mar. 25 on s. s. Monterey, case Apr. 3 on s. s. La Navarre.
Ecuador:				
Guamote.....	Jan. 16.....			Present.
Manglar Alto.....	Jan. 17.....			Epidemic.
Egypt, general:				
Alexandria.....	Nov. 12-Feb. 25.....	737	164	
Cairo.....	Nov. 26-Mar. 31.....	50	30	
Suez.....	Nov. 19-May 13.....	508	146	
Feb. 19-May 20.....	83	5		
France:				
Marseille.....	Dec. 1-Apr. 30.....		5	
Nantes.....	Mar. 15-21.....	1		
Nice.....	Jan. 1-Feb. 28.....	2		
Paris.....	Nov. 22-May 22.....	73	3	
Toulon.....	Jan. 1-31.....	1		

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Germany, general	Nov. 19-May 29	103	Among Russian emigrants.
Bremen	Jan. 16-23	2	.....
Breslau	Dec. 20-26	1	.....
Brunswick	Feb. 16-20	1	.....
Hamburg	Mar. 13-May 22	4	.....
Konigsberg	Jan. 9	1	.....
Gibraltar	May 2	1	
Greece:	Nov. 22-Mar. 6	5	
Athens	Dec. 16-31	1	1	
Great Britain:	Dec. 13-May 22	34	9	From a vessel.
Bristol	Apr. 3-May 1	1	1	
Cardiff	Mar. 21-27	1	.....
Dunbar	Feb. 1-6	1	.....
London	.....	.....	.....
Guatemala:	Dec. 21-May 29	606	200	Estimated, 2,800 cases; 840 deaths.
Guatemala City	.....	.....	.....
India:	Nov. 25-May 18	327	
Bombay	Nov. 1-May 8	3,573	.....
Calcutta	Nov. 28-May 18	39	.....
Madras	Nov. 22-May 8	110	.....
Indo-China:	Nov. 15-Dec. 5	6	5	
Cholom	Nov. 1-May 4	57	32	
Italy, general	Nov. 30-May 23	405	
Catania	Feb. 28-May 8	9	.....
Cinquefrondi	Jan. 15-21	13	.....
Florence	Nov. 24-Mar. 10	4	.....
Genoa	Dec. 1-May 15	13	.....
Naples	Dec. 7-May 23	435	71	Jan. 18, 1 case on s. s. Europa. Apr. 23, 1 case on s. s. Monte-video. May 1, 1 case on s. s. Verona.
Palermo	Jan. 24-Mar. 6	11	2	
Italy:	Dec. 1	Epidemic.
Polesella	Jan. 15-21	2	.....
Tartrinoli	May 15-21	1	.....
Japan:	
Formosa	Nov. 29-May 8	23	.....
Kobe	Feb. 14-Mar. 6	5	2	3 cases in March from s. s. Ghazee from Singapore.
Tokyo	May 8-Dec. 31	314	.....
Java:	
Batavia	Nov. 1-May 1	89	10	
Malta	Nov. 22-Feb. 20	4	1	Nov. 22, 1 case on vessel
Manchuria:	.....	.....	.....
Mexico:	Jan. 17-Apr. 10	7	2	
Acapulco	Jan. 11-Feb. 14	15	.....
Mexico:	Mar. 17	Present.
Acatayucan	Apr. 19-June 6	8	3	
Chihuahua	Jan. 7-27	.....	20
Guadalajara	May 9-15	1	.....
Matamoras	Nov. 8-May 8	.....	364
Mexico City	Monterey	Jan. 4-June 6	86	
Mexico:	May 9	Epidemic.
Puebla	Mar. 29	3	.....
Rosita	Mar. 31	10	.....
Mexico:	Jan. 1-15	5	
Salina Cruz	.....	.....	.....
Mexico:	Apr. 28-June 2	Present at localities between Tampico and Tuspan. Present.
Tampico	Jan. 23-Feb. 3	.....	.....
Mexico:	Dec. 13-May 31	10	6	
Veracruz	Dec. 21	1	.....
Mexico:	Dec. 12	Do.
Moluccas Islands	.....	.....	.....
Netherlands, The:	Apr. 28-May 4	1	
Nymwegen	Jan. 10-Mar. 27	1	1	
Newfoundland	Feb. 9-Mar. 20	2	Epidemic on south coast. Jan. 10, 1 case from s. s. Portia.
St. Johns	Jan. 10-Apr. 3	11	.....
Norway:	Jan. 24-30	2	
Bergen	Nov. 22-28	1	1	
Paraguay:	Present.
Asuncion	Dec. 20-26	.....	.....
Persia:	Present.
Arabistan	Jan. 1-28	.....	.....
Dizfoul	Jan. 1-28	Do.
Hamadan	Oct. 2-Dec. 24	350	100	Do.
Kerman	Nov. 11	Estimated.
				Present.

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia—Continued.				
Kermanshah	Mar. 1-31	22		Present in October.
Mash-Had	Apr. 5			Present.
Mehchedisser	Jan. 1-28			Do.
Mohammerah	Jan. 1-28			Do.
Sultanaabad	Oct. 1-31			Do.
Tabriz	Oct. 2-Apr. 5			Do.
Teheran	Sept. 18-Oct. 28	17		
Trebizond	Jan. 16			Do.
Peru:				
Lima	Nov. 22-Dec. 31	11		Mar. 27, 1 case in the lazaretto.
Salaverry	Nov. 19-25		1	
Philippine Islands:				
Manila	Nov. 1-Apr. 24	111	22	Feb. 26, 1 case on s. s. Indrapura. Third quarter, 1908, 84 cases, 38 deaths.
Porto Rico:				
Mayaguez	Dec. 20-Jan. 2	2		
Portugal:				
Lisbon	Nov. 30-May 22	80		Jan. 27, 1 case from s. s. Aragon.
Russia:				
Batoom	Dec. 1-Mar. 31	4		
Moscow	Nov. 20-May 22	553	211	
Odessa	Oct. 4-May 22	97	17	
Reval	Jan. 1-31	1		
Riga	Nov. 29-May 29	45		
St. Petersburg	Nov. 15-May 8	259	79	
Warsaw	Nov. 1-Apr. 17		86	
Salvador:				
Ahuachapan	Apr. 27	5		In quarantine.
San Gerónimo, Canton	Apr. 27	7	2	Matopan, department.
San Salvador	Feb. 6	3		Present on routes to Guatemala.
Santa Ana	Feb. 6-Apr. 27	40		
Santiago	Apr. 27	12		
Servia:				
Belgrade	Dec. 6-May 15	16	6	
Siam:				
Bangkok	Feb. 1-Apr. 24	147	92	Present in November.
Siberia:				
Vladivostok	Dec. 14-Feb. 14	2		
Southeast Africa:				
Lourenço Marquez	Jan. 1-31	1	1	
Spain:				
Almeria	Jan. 1-Apr. 30	10		Apr. 1-Dec. 31, 1908, 9 cases.
Barcelona	Dec. 6-May 31	91		
Cartagena	July 1-31	15		
Huelva	Mar. 1-31	2		
Madrid	Nov. 1-Apr. 30	118		
Valencia	Nov. 29-May 22	134	11	
Vigo	Nov. 30-May 22		14	
Straits Settlements:				
Penang	Mar. 1-27	2	2	Mar. 1, 1 case from s. s. Pentakota; case Mar. 27 from s. s. Hong Sin.
Singapore	Dec. 28-May 1		18	
Switzerland:				
Geneva	May 9-15	2		
Zug, Canton	Apr. 11-17	1		
Zurich	Feb. 21-27	3		
Tripoli:				
Tripoli	Feb. 13-Apr. 24	181	31	
Turkey in Asia:				
Adalia	Sept. 24-27		2	
Bagdad	Feb. 13-May 8			Present.
Bassorah	Jan. 3-May 15			Do.
Smyrna	Oct. 7-May 6		75	
Turkey in Europe:				
Constantinople	Dec. 7-May 23		75	
Trebizond	Feb. 7-May 2			Do.
Uruguay:				
Montevideo	Dec. 1-Mar. 31		21	

Weekly mortality table, foreign and insular cities.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—							
				Tuberculosis.		Plague.		Cholera.		Yellow fever.	
Greenock.	May 22	72,300	28								
Guadalajara.	May 20	125,000	113								
Do.	May 20	125,000	127								
Halifax.	May 31	40,787	27	2							
Hamburg.	May 15	872,252	263	39							
Do.	May 22	872,252	294	39							
Hamilton, Bermuda.	May 31	20,206	5								
Havre.	May 15	132,430	66	13							
Do.	May 22	132,430	60	11							
Hilo, Hawaii.	May 15	3,500	8	1							
Hull.	May 22	275,552	70								
Lausanne.	May 8	60,000	20								
Do.	May 15	60,000	19								
Leeds.	May 22	484,012	117	10							
Leipzig.	May 15	537,686	146	25							
Leith.	May 22	85,721	23	4							
Liege.	May 15	176,465	50	5							
Liverpool.	May 22	760,357	276	22							
Lisbon.	Apr. 17	406,869	182	33							
Do.	Apr. 24	406,869	139	17							
London.	May 22	4,833,938	1,295	150							
Lübeck.	do	97,000	28	4							
Lyon.	May 8	472,114	184	36							
Do.	May 15	472,114	154	43							
Madras.	May 7	509,346	338								
Managua.	May 8	22,278	26	2							
Manaos.	May 15	52,040	26								
Manchester.	May 22	631,533	227	20							
Mannheim.	May 1	182,811	56	9							
Do.	May 8	182,811	36	6							
Manzanillo.	May 22	1,700	2								
Do.	May 29	1,700	4								
Matamoros.	do	8,000	4								
Mazatlan.	do	22,000	23								
Mexico.	Apr. 24	400,000	42	34							
Do.	May 1	400,000	477	42							
Do.	May 8	400,000	475	33							
Milan.	May 9	900,000	240	35							
Do.	May 16	900,000	272	33							
Moncton, N. B.	June 5	13,500	2								
Monrovia.	Apr. 23	7,000	4								
Monterey.	Apr. 30	7,000	6	1							
Montreal.	May 30	100,000	110	6							
Moscow.	May 29	378,806	128	18							
Do.	May 15	1,335,104	761	97							
Munich.	do	566,000	213	44							
Nagasaki.	May 9	175,936	34								
Naples.	May 22	593,729	295								
do	281,584	95									
Newcastle-on-Tyne.	do	260,000	83								
Nottingham.	May 15	8,000	5								
Nuevo Laredo.	May 29	316,180	122	24							
Nuremberg.	May 1	316,180	107	27							
Do.	May 8	316,180	22								
Ottawa.	May 22	80,200	19								
Do.	May 29	80,200	19								
Para.	May 15	185,000	83	10							
Do.	May 22	185,000	96	6							
Paris a.	Jan. 23	2,776,394	209								
Do.	Feb. 27	2,776,394	1,116	238							
Do.	May 15	2,776,394	996	212							
Do.	May 22	2,776,394	1,009	225							
Penang.	May 1	102,620	72	16							
Plymouth.	May 22	124,180	31								
Port Elizabeth.	May 8	32,959	11								
Prague.	May 15	229,965	140	38							
Queenstown.	May 22	7,684	6								
Rangoon.	May 1	252,155	194	9	18	7	8				
Rotterdam.	May 22	413,503	118								
Saigon.	Apr. 17	206,000									
Do.	Apr. 24	206,000									
Do.	May 1	206,000									

a Reported out of date.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—								
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.
												Measles.
St. John, N. B.	June 5	40,711	12	4								
St. Petersburg	May 1	1,678,000	137	5				5	2	6	12	37
Do.	May 8	1,678,000	874	150	6	8	3	8	19	14	43	12
San Feliz de Guixols.	May 22	11,094	2									
Santa Cruz de Teneriffe.	May 15	46,000	12	2								
Do.	May 22	46,000	16	2								1
Santiago de Cuba	May 29	53,614	18	3								
Shanghai ^a	Jan. 10	565,000	122	18								
Do.	Jan. 17	565,000	124	10							1	3
Do.	Jan. 31	565,000	131	17								
Do.	Apr. 24	565,000	116	12							1	
Do.	May 1	565,000	113	11				1				
Smyrna.	Apr. 29	400,000	54	17				1		1		
Do.	May 6	400,000	51	11				1	1			1
Southampton	May 22	124,667	26	2								
Stockholm.	May 8	339,582	112	24						1	3	1
Sunderland.	May 22	159,137	55								3	1
Tarragona.	Mar. 20	20,400	8									
Do.	Mar. 27	20,400	7									
Do.	May 22	20,400	8	2								
Tegucigalpa.	May 18	24,000	9									
Turin.	May 21	381,439	156	12						4	1	
Valencia.	May 15	240,000	87	9				1			1	
Vevay	May 8	14,500	2									
Do.	May 15	14,500	5									
Victoria.	May 29	30,000	9	1								
Vienna.	May 15	2,064,037	789	149					1	8	3	15
Vigo.	May 22	40,000	17	6							1	
Warsaw.	Mar. 27	731,595	276	52				1	3	2	2	2
Do.	Apr. 3	751,595	281	65				4	4	2	5	1
West Hartlepool.	May 22	66,750	15									
Winnipeg.	May 29	122,000	35	1					2		1	
Zanzibar.	Apr. 21	75,000	28	9								
Do.	Apr. 30	75,000	31									

^a Reported out of date.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,
United States Public Health and Marine-Hospital Service.