

# PUBLIC HEALTH REPORTS.

## UNITED STATES.

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

### DISTRIBUTION OF THE LEPROSY-LIKE DISEASE OF RATS IN SAN FRANCISCO, CAL.\*

[By Passed Asst. Surg. George W. McCoy, U. S. Public Health and Marine-Hospital Service.]

In the routine examinations of rats for plague a record has been kept of the places from which rats with the leprosy-like disease came. The idea was originally to determine whether this disease, which has features that appear to justify its being considered infectious, is confined to certain definite foci or whether it was uniformly distributed among the rats in the city.

The investigation, based upon the places from which 80 leprosy rats have come, shows that the disease is widely distributed in this city, but by no means in a uniform manner.

A high percentage of the leprosy rats comes from that part of the city known as Butchertown. This is the district in which all of the slaughterhouses are located. Outside of Butchertown 11 of 45 rats that could be traced came from butcher shops. Twenty rats from wholesale butcher establishments, with 11 from retail meat dealers, gives 31 out of 65 that could be traced as coming from places where rats would have easy access to meat.

Two or more infected rats were taken at different times from the same place in 10 instances; 8 times from wholesale or retail meat markets, once from a restaurant, and once from a place the address of which was too indefinite to be determined.

A great many rats have been taken in places devoted to the meat industry, but the number of leprosy rats taken in these places is out of all proportion to the total catch from such establishments. It is very interesting to note that none of the infected animals came from stables and warehouses, from both of which sources so many rats have been obtained during the antirats crusade.

There are certain sources of error in a compilation of this sort, based upon a number (80) too small to be given great weight. Erroneous addresses are sometimes given. The address given is often very indefinite, specifying a corner, or a locality where houses are not numbered. Rats do not necessarily remain in the same building indefinitely, but more or less migration probably occurs. Another source of error is the fact that the leprosy-like disease is confined to adult rats, and a larger proportion of the rats taken in Butchertown are full grown than of those taken in the remainder of the city.

\* See Public Health Reports, October 16, 1908, p. 1481.

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

Passed Assistant Surgeon Blue reports:

SAN FRANCISCO, CAL.

*Week ended October 24.*

A plague-infected rat (*Mus rattus*) was found October 21, 1908, in Second street between Brannan and Townsend streets.

Last case of human plague: Sickened, January 30, 1908.

Sick inspected .....	9
Dead inspected .....	100
Necropsies held .....	5
Premises inspected .....	15, 649
Houses disinfected .....	107
Buildings condemned .....	9
Nuisances abated .....	1, 574
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Rats found dead .....	277
Rats trapped .....	3, 578
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Total rats taken .....	3, 855
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Rats identified:	
<i>Mus norvegicus</i> .....	2, 479
<i>Mus rattus</i> .....	63
<i>Mus musculus</i> .....	1, 234
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Total .....	3, 776
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Rats examined bacteriologically .....	2, 093
Rats infected with <i>Bacillus pestis</i> .....	1
Poisons placed .....	150, 180

OAKLAND, CAL.

*Week ended October 17.*

Dead inspected .....	41
Rats trapped .....	204
Rats examined .....	73
Mice caught .....	6
Mice examined .....	6
Squirrels caught .....	3
Squirrels examined .....	3
Gophers caught .....	1
Gophers examined .....	1
Ships fumigated .....	6
Ships examined .....	1
Certificates signed .....	1
Necropsies held .....	6

POINT RICHMOND, CAL.

*Week ended October 17.*

Sick inspected .....	2
Dead inspected .....	2
Premises inspected .....	527
Nuisances abated .....	36
Rats found dead .....	20
Rats trapped .....	50
Poisons placed .....	24,500

## ALAMEDA COUNTY, CAL.

*Week ended October 17.*

Sick inspected .....	12
Dead inspected .....	61
Necropsies held .....	6

## CONTRA COSTA COUNTY, CAL.

*Week ended October 17.*

Rats trapped .....	3
Squirrels caught .....	128
Rabbits caught .....	1

*Summary of examination of rodents from Contra Costa County for plague infection—Bacillus pestis found in 4 squirrels.*

Doctor Blue further reports, October 19:

Since August 1, 1908, a number of animals of different species have been obtained from Contra Costa County, in the area covered by the squirrel plague, and examined in the service laboratories of Oakland and San Francisco. The *bacillus pestis* was demonstrated in 4 squirrels.

Ground squirrels examined .....	422
Rats .....	73
Mice .....	8
Rabbits .....	18
Gophers .....	1
Coyotes .....	1

*Outgoing quarantine transactions.*

Passed Assistant Surgeon Hobby reports:

*Week ended October 17.*

Vessels fumigated and certified .....	30
Vessels certified .....	55

*Report from Los Angeles, Cal.—Examination of rodents for plague infection.*

Passed Assistant Surgeon Stimson reports, October 22:

The following is a report of animals examined in the laboratory here from October 12 to 18, inclusive:

Ground squirrels .....	271
Gray rats .....	289
Black rats .....	22
Gamble pocket mouse .....	7

None of these animals was found to be infected with plague.

*Report from Seattle, Wash.—Plague-prevention work.*

Passed Assistant Surgeon Glover reports October 26:

*Week ended October 24.*

Date of finding of last plague rat, September 26, 1908.	
Rats received .....	1, 135
Rats necropsied .....	902
Plague rats found .....	0
Plague-infected rats to date .....	21
Vessels inspected .....	5
Vessels fumigated .....	7

*Report from Miami, Fla.—Dengue fever present.*

Acting Assistant Surgeon Jackson reports, October 24:

During the week ended October 24 only 2 cases of dengue have occurred.

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

FLORIDA.—Reports from the state board of health for the two weeks ended October 17, 1908, show as follows: Enteric fever—*Jacksonville*, 1 case. Tuberculosis—*Tampa* 3, *White Springs*, *De Funiak Springs*, each 1 case. Diphtheria—*Jacksonville* 5, *Plant City*, *Bradentown*, each 2 cases, *Tallahassee*, *Chattahoochee*, *Tampa*, *Ybor City*, *Lake Butler*, and *Raiford*, each 1 case.

IOWA—*Keokuk*.—Month of September, 1908. Estimated population, 16,000. Total number of deaths, 19. Cases: Enteric fever 3.

OHIO—*Ironton*.—Seven months ended September 30, 1908. Estimated population, 18,000. Total number of deaths, 97. No deaths from contagious diseases.

WISCONSIN—*Milwaukee*.—Month of September, 1908. Estimated population, 350,000. Total number of deaths, 343, including diphtheria 6, enteric fever 2, scarlet fever 1, whooping cough 4, and 25 from tuberculosis. Cases of contagious diseases reported: Diphtheria 24, enteric fever 33, measles 3, scarlet fever 31, smallpox 5, and tuberculosis 46.

*Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, June 27 to November 6, 1908.*

[For reports received from December 27, 1907, to June 26, 1908, see PUBLIC HEALTH REPORTS for June 26, 1908.]

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

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Alabama:</b>				
Huntsville .....	Jan. 5-June 18 .....	95		And vicinity.
Mobile .....	June 7-Aug. 29 .....	10		
Total for State .....		95		
<b>Arkansas:</b>				
Texarkana .....	Dec. 1-June 15 .....			Present.
<b>California:</b>				
Angel Island Quarantine Station .....	Jan. 1-May 18 .....			5 additional cases. Report received out of date.
Berkeley .....	Sept. 17-Oct. 10 .....	3		
Los Angeles .....	June 7-July 4 .....	6		July 13, 1 case on schr. Alumna. Report for June not received.
Oakland .....	Apr. 1-Sept. 30 .....	18		
Sacramento .....	May 1-Aug. 31 .....	6		Reported out of date. June 1-13, mainly on Pala Indian Reservation.
San Bernardino .....	Dec. 11-July 11 .....	54		
San Diego County .....	June 1-Aug. 3 .....	98		
Escondido .....	June 1-Aug. 3 .....	15		
San Diego .....	June 1-Sept. 30 .....	31		
San Francisco .....	June 6-Oct. 24 .....	84	1	
Stockton .....	July 1-31 .....	1		
Total for State .....		316	1	
<b>Colorado:</b>				
Adams County .....	Jan. 1-Mar. 31 .....	3		
Bent County .....	Apr. 1-June 30 .....	2		
Boulder County .....	Apr. 1-June 30 .....	4		
Chaffee County .....	Jan. 1-Mar. 31 .....	1		
Cheyenne County .....	Jan. 1-Mar. 31 .....	1		
Denver County .....	Jan. 1-June 30 .....	108		
Douglas County .....	Apr. 1-June 30 .....	1		
Eagle County .....	Jan. 1-Mar. 31 .....	9		
Elbert County .....	Jan. 1-Mar. 31 .....	3		
El Paso County .....				
Colorado City .....	Jan. 1-June 30 .....	8		
Colorado Springs .....	Apr. 1-June 30 .....	10		
Garfield County .....	Jan. 1-Mar. 30 .....	17		
Huerfano County .....	Jan. 1-June 30 .....	18		
Jefferson County .....	Jan. 1-Mar. 30 .....	19		
Larimer County .....	Jan. 1-June 30 .....	3		
Las Animas County .....	Jan. 1-Mar. 31 .....	9		
Lincoln County .....	Jan. 1-Mar. 31 .....	19		
Montrose County .....	Apr. 1-June 30 .....	3		
Montezuma .....	Jan. 1-Mar. 31 .....	3		
Morgan County .....	Apr. 1-June 30 .....	3		
Otero County .....	Jan. 1-June 30 .....	40		
Prowers County .....	Jan. 1-Mar. 31 .....	1		
Pueblo County .....	Jan. 1-June 30 .....	6		
Routt County .....	Apr. 1-June 30 .....	2		
San Juan County .....	Jan. 1-Mar. 31 .....	4		
Sedgwick County .....	Jan. 1-Mar. 31 .....	8		
San Miguel County .....	Apr. 1-June 30 .....	1		
Teller County .....	Jan. 1-June 30 .....	2		
Cripple Creek .....	Jan. 1-June 30 .....	15		
Weld County .....	Jan. 1-Apr. 30 .....	9		
Yuma County .....	Apr. 1-June 30 .....	8		
Total for State .....		340		
<b>Delaware:</b>				
Reedy Island Quarantine Station .....	Aug. 9 .....	1		From steamship Haverford.
Total for State .....		1		
<b>District of Columbia:</b>				
Washington .....	June 14-Oct. 17 .....	10		
Total for District .....		10		

## Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Florida:</b>				
Jacksonville .....	Oct. 4-10 .....	1		
Tampa .....	Oct. 4-12 .....	1		
Total for State .....		2		
<b>Idaho:</b>				
Carey .....	May 21-Aug. 4 .....	21		
Total for State .....		21		
<b>Illinois:</b>				
Alexander County .....	May 1-31 .....	3		
Carroll County .....	May 1-31 .....	5		
Cass County .....	May 1-31 .....	34		
Champaign County .....	May 1-31 .....	4		
Christian County .....	May 1-31 .....	3		
Clark County .....	May 1-31 .....	11		
Cook County—				
Chicago .....	June 14-Oct. 24 .....	12		
Harvey .....	May 1-31 .....	1		
Dupage County .....	May 1-31 .....	1		
Efingham County .....	May 1-31 .....	1		
Iroquois County .....	May 1-31 .....	3		
Jo Daviess County .....	May 1-31 .....	1		
Kane County .....	May 1-31 .....	37		
Macon County .....	May 1-31 .....	5		
Macoupin County .....	May 1-31 .....	5		
Marshall County .....	May 1-31 .....	9		
McLean County .....	May 1-31 .....	5		
Mercer County .....	May 1-31 .....	1		
Montgomery County .....	May 1-31 .....	7		
Morgan County .....	May 1-31 .....	20		
Jacksonville .....	June 1-30 .....	10		
Peoria County .....	May 1-31 .....	12		
Saline County .....	May 1-31 .....	5		
Sangamon County—				
Springfield .....	June 19-July 23 .....	4		
Stevenson County .....	May 1-31 .....	25		
Tazewell County .....	May 1-31 .....	64		
Warren County .....	May 1-31 .....	6		
Will County .....	May 1-31 .....	1		
Joliet .....	May 1-31 .....	19		
Total for State .....		314		
<b>Indiana:</b>				
Allen County .....	Apr. 1-June 30 .....	4		
Fort Wayne .....	June 21-Oct. 24 .....	7		
Bartholomew County .....	Apr. 1-30 .....	1		
Boone County .....	Apr. 1-June 30 .....	4		
Carroll County .....	May 1-June 30 .....	67	1	
Clark County .....	Apr. 1-July 31 .....	39		
Jeffersonville .....	June 1-July 31 .....	25	1	
Clay County .....	Aug. 1-31 .....	8		
Decatur County .....	Aug. 1-31 .....	2		
Dearborn County .....	Apr. 1-June 30 .....	5		
Dekalb County .....	Apr. 1-June 30 .....	15		
Delaware County .....	Apr. 1-June 30 .....	23		
Floyd County .....	June 1-30 .....	1		
Fountain County .....	June 1-30 .....	4		
Fulton County .....	Apr. 1-30 .....	19		
Grant County .....	Apr. 1-June 30 .....	55		
Hendricks County .....	Apr. 1-30 .....	1		
Howard County .....	Apr. 1-30 .....	15		
Huntington County .....	Apr. 1-30 .....	38		
Jackson County .....	Apr. 1-June 30 .....	4		
Jefferson County .....	June 1-30 .....	6		
Johnson County .....	Apr. 1-Aug. 31 .....	13		
Knox County .....	Apr. 1-May 31 .....	31		
Laporte County .....	Apr. 1-30 .....	2		
Lawrence County .....	Apr. 1-30 .....	12		
Madison County .....	Apr. 1-Aug. 31 .....	10		
Marion County .....	Apr. 1-June 30 .....	41		
Indianapolis .....	June 8-Oct. 11 .....	64	1	
Marshall County .....	Apr. 1-30 .....	1		
Miami County .....	Apr. 1-30 .....	16		
Morgan County .....	Apr. 1-30 .....	2		
Newton County .....	Apr. 1-30 .....	2		
Noble County .....	Apr. 1-June 30 .....	15		
Orange County .....	Apr. 1-30 .....	1		
Owen County .....	Apr. 1-30 .....	4		
Park County .....	June 1-30 .....	1		

## Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Indiana—Continued.</b>				
Porter County	June 1-30	1		
St. Joseph County	June 1-July 31	11		
South Bend	June 29-Sept. 26	18		
Scott County	June 1-30	2		
Shelby County	Apr. 1-30	35	1	
Steuben County	May 1-31	30		
Sullivan County	Apr. 1-30	9		
Tippecanoe County	Apr. 1-May 31	11		
Lafayette	June 21-Oct. 26	10		
Tipton County	Apr. 1-30	1		
Vanderburg County	June 1-30	1		
Wabash County	Apr. 1-30	14		
Warrick County	Apr. 1-30	1		
Wayne County	Apr. 1-30	15		
Wells County	Apr. 1-30	1		
Vigo County	May 1-June 30	12		
Total for State		725	4	
<b>Iowa, general</b>				
Burlington	Jan. 1-June 30	2,092		
Cedar Rapids	July 15	1		
Davenport	June 1-July 1	4		
Keokuk	June 2-30	3		
Sioux City	June 1-30	1		
Sioux City	June 1-Aug. 31	8		
Total for State		2,109		
<b>Kansas:</b>				
Allen County	Apr. 1-Aug. 30	28		
Anderson County	Apr. 1-30	6		
Atchison County	Apr. 1-July 31	70		
Atchison	Apr. 1-Aug. 30	30		
Barber County	June 1-30	1		
Barton County	Apr. 1-30	6		
Bourbon County	Apr. 1-June 30	24		
Butler County	May 1-June 30	29		
Chase County	Apr. 1-Aug. 30	11		
Cherokee County	Apr. 1-June 30	14		
Cheyenne County	Apr. 1-30	2		
Clay County	May 1-31	2		
Cloud County	May 1-June 30	2		
Crawford County	Apr. 1-June 30	6		
Pittsburg	Apr. 1-30	8		
Decatur County	June 1-30	4		
Dickinson County	July 1-31	2		
Doniphan County	Apr. 1-30	3		
Douglas County	Apr. 1-Aug. 30	37		
Edwards County	Apr. 1-May 31	3		
Ford County	May 1-June 30	2		
Franklin County	Apr. 1-May 31	3		
Geary County	July 1-31	1		
Graham County	June 1-30	2		
Greenwood County	Apr. 1-Aug. 30	12		
Hamilton County	Apr. 1-30	1		
Harper County	Apr. 1-June 30	9		
Harvey County	Apr. 1-30	14		
Hodgeman County	Apr. 1-30	2		
Jackson County	Apr. 1-Aug. 30	42		
Jefferson County	Apr. 1-June 30	11		
Jewell County	May 1-31	3		
Kingman County	Apr. 1-July 31	26		
Labette County	Apr. 1-June 30	24		
Parsons	Apr. 1-Aug. 30	49		
Leavenworth County	Apr. 1-June 30	62		
Leavenworth	May 1-31	3		
Lincoln County	Apr. 1-July 31	7		
Linn County	Apr. 1-June 30	21		
Lyon County	Apr. 1-July 31	32		
Marion County	June 1-Aug. 30	7		
McPherson County	May 1-July 31	3		
Meade County	June 1-30	6		
Miami County	Apr. 1-30	5		
Montgomery County	Apr. 1-July 31	25		
Coffeyville	May 1-July 31	8		
Morris County	Apr. 1-30	14		
Nemaha County	Apr. 1-July 31	80		
Neosho County	Apr. 1-30	2		
Osage County	Apr. 1-May 31	2		
Pawnee County	May 1-June 30	6		
Pottawatomie County	Apr. 1-July 31	15		

*Smallpox in the United States, etc.—Continued.*

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Kansas—Continued.</b>				
Pratt County .....	May 1–July 31 .....	13		
Rawlins County .....	Aug. 1–31 .....	2		
Beno County .....	Apr. 1–May 31 .....	14		
Republic County .....	Apr. 1–July 31 .....	17		
Rooks County .....	July 1–31 .....	1		
Rush County .....	May 1–31 .....	6		
Saline County .....	Apr. 1–30 .....	11		
Sedgwick County .....	Apr. 1–June 30 .....	28		
Wichita .....	July 12–Oct. 17 .....	3		
Seward County .....	May 1–June 30 .....	21		
Shawnee County .....	Apr. 1–July 31 .....	34		
Topeka .....	June 7–Oct. 24 .....	19		
Smith County .....	Apr. 1–30 .....	7		
Stevens County .....	Apr. 1–30 .....	1		
Sumner County .....	Apr. 1–30 .....	3		
Trego County .....	Apr. 1–30 .....	22		
Washington County .....	Apr. 1–30 .....	2		
Wilson County .....	June 1–Aug. 31 .....	19		
Wyandotte County .....	May 1–31 .....	7		
Kansas City .....	June 8–Aug. 22 .....	6		
<b>Total for State .....</b>		<b>1,023</b>		
<b>Kentucky:</b>				
Covington .....	June 21–Oct. 3 .....	6		
Lexington .....	July 12–Oct. 24 .....	4		
<b>Total for State .....</b>		<b>10</b>		
<b>Louisiana:</b>				
New Orleans .....	June 14–July 25 .....	20	1	
<b>Total for State .....</b>		<b>20</b>	<b>1</b>	
<b>Maine:</b>				
Aroostook County .....	Sept. 1–30 .....	1		
Fort Kent .....	Oct. 15 .....			Present.
Grant Isle .....	Oct. 15 .....			Do.
Cyr Plantation .....	Oct. 15 .....	8		Vicinity of Van Buren.
Van Buren .....	Sept. 1–30 .....	6		
<b>Total for State .....</b>		<b>15</b>		
<b>Maryland:</b>				
Baltimore .....	July 5–11 .....	1		
<b>Total for State .....</b>		<b>1</b>		
<b>Massachusetts, general.</b>				
Lawrence .....	May 1–31 .....	1		
Lawrence .....	Sept. 13–Oct. 3 .....	1	1	
<b>Total for State .....</b>		<b>2</b>	<b>1</b>	
<b>Michigan:</b>				
Allegan County .....	May 1–31 .....	18		
Alpena County .....	July 1–31 .....	4		
Barry County .....	July 1–31 .....	1		
Bay County .....	May 1–31 .....	10		
Benzie County .....	May 1–Aug. 31 .....	19		
Berrien County .....	May 1–31 .....	1		
Branch County .....	May 1–31 .....	2		
Calhoun County .....	May 1–Aug. 31 .....	36		
Battle Creek .....	May 1–June 30 .....	25		
Charlevoix County .....	July 1–31 .....	1		
Cass County .....	May 1–31 .....	17		
Chippewa County .....	June 1–Aug. 31 .....	3		
Sault de Saint Marie .....	May 1–July 31 .....	6		
Clare County .....	May 1–31 .....	3		
Eaton County .....	June 1–July 31 .....	7	1	
Emmet County .....	May 1–31 .....	1		
Grand Traverse County .....	May 1–June 30 .....	12		
Gratiot County .....	June 1–30 .....	2		
Hillsdale County .....	May 1–June 30 .....	3		
Houghton County .....	May 1–Aug. 31 .....	45		
Huron County .....	May 1–July 31 .....	25		
Ingham County, Lansing .....	July 1–31 .....	3		
Ionia County .....	May 1–July 31 .....	11		
Jackson County .....	May 1–June 30 .....	10		
Kalamazoo County .....	May 1–31 .....	5		
Kent County .....	June 1–July 31 .....	11		
Keweenaw County .....	July 1–31 .....	1		



## Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Lake County	May 1-31	8		
Lapeer County	May 1-June 30	2		
Leelanau County	Aug. 1-31	1		
Lenawee County	July 1-Aug. 31	7		
Manistee County, Manistee	May 1-31	1		
Marquette County	July 1-31	1		
Mason County	May 1-June 30	4		
Midland County	May 1-31	1		
Missaukee County	May 1-July 31	8		
Montcalm County	May 1-31	3		
Muskegon County	May 1-Aug. 31	48		
Newaygo County	May 1-July 31	8		
Oakland County	June 1-30	3		
Oceola County	June 1-30	1		
Ottawa County	July 1-31	1		
Otsego County	June 1-30	8		
Saginaw County	May 1-30	30		
Saginaw	June 21-Sept. 5	7		
St. Clair County	May 1-Aug. 31	24		
Port Huron	May 1-July 31	10	1	
St. Joseph County	June 1-30	1		
Shiawassee County	May 1-31	1		
Tuscola County	July 1-31	2		
Van Buren County	Aug. 1-31	1		
Wayne County, Detroit	July 4-Aug. 1	2		
Wexford County	May 1-July 31	22		
Total for State		487	2	
Minnesota:				
Aitkin County	Apr. 1-July 20	10		
Anoka County	Apr. 28-Sept. 27	6		
Becker County	Apr. 28-July 13	128		
Beltrami County	July 21-Aug. 3	4		
Benton County	Apr. 28-July 20	12		
Bigstone County	Apr. 7-May 17	1		
Blue Earth County	Apr. 21-July 6	25		
Brown County	Mar. 31-Sept. 13	19		
Carlton County	June 16-29	2		
Carver County	Apr. 28-Aug. 10	30		
Cass County	June 1-8	1		
Chippewa County	Apr. 21-Sept. 27	15		
Chisago County	Apr. 14-July 6	3		
Clay County	Apr. 28-July 20	26		
Cottonwood County	July 20-27	2		
Crow Wing County	Apr. 28-Oct. 3	17		
Dakota County	Apr. 28-July 27	9		
Douglas County	June 9-15	2		
Faribault County	May 4-July 13	23		
Fillmore County	May 4-Aug. 24	17		
Freeborn County	May 4-10	1		
Goodhue County	May 4-June 29	21		
Grant County	Sept. 7-13	2		
Hennepin County	Apr. 28-Aug. 24	51		
Minneapolis	June 1-Sept. 30	34		
Houston County	Apr. 28-June 15	3		
Hubbard County	Apr. 28-Sept. 20	32		
Isanti County	Apr. 28-May 17	5		
Itasca County	Apr. 7-June 15	20		
Jackson County	Apr. 13-Sept. 13	40		
Kanabec County	May 4-10	5		
Kandiyohi County	May 4-15	16		
Kitson County	Apr. 14-Sept. 13	4		
Koochiching County	May 25-June 29	8		
Lac qui Parle County	May 4-July 6	16		
Lake County	May 27-July 27	14		
Lesueur County	Apr. 28-Aug. 31	17		
Lincoln County	June 4-Sept. 6	4		
Lyon County	May 4-Oct. 3	4		
McLeod County	May 24-June 8	3		
Marshall County	June 29-Sept. 6	4		
Martin County	Apr. 28-June 15	5		
Meeker County	Apr. 28-July 20	31		
Millelacs County	Apr. 28-June 15	4		
Morrison County	Apr. 28-Sept. 27	30		
Mower County	May 17-June 22	6		
Murray County	July 6-Aug. 24	8		
Nicollet County	Apr. 28-June 1	14		
Nobles County	Apr. 28-Aug. 3	5		
Norman County	May 10-June 22	3		
Olmsted County	Apr. 28-Sept. 27	16		

*Smallpox in the United States, etc.—Continued.*

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Minnesota—Continued.</b>				
Ottertail County	Apr. 28-Sept. 6	45		
Pine County	May 17-June 22	9		
Pipestone County	June 1-27	3		
Polk County	Apr. 28-Oct. 3	17		
Pope County	Apr. 28-May 8	1		
Ramsey County	Apr. 28-Sept. 13	13		
St. Paul	May 1-July 31	167		
Red Lake County	May 4-Sept. 13	13		
Redwood County	Apr. 28-Aug. 3	14		
Benvenue County	May 10-Sept. 13	7		
Rice County	Apr. 28-June 22	6		
Rock County	Apr. 28-June 8	3		
Rossan County	May 4-July 6	3		
St. Louis County	Apr. 28-June 15	9		
Duluth	Apr. 28-Aug. 31	280		
Scott County	Apr. 28-July 27	149		
Sibley County	Apr. 27-Oct. 6	26		
Stearns County	Apr. 28-Sept. 20	69		
Steele County	Apr. 28-Sept. 6	18		
Stevens County	Apr. 28-June 29	9		
Swift County	Apr. 28-June 22	18		
Todd County	Apr. 28-Aug. 10	66		
Wabasha County	Apr. 28-Sept. 6	10		
Wadena County	July 20-Aug. 31	7		
Wantwan County	Sept. 7-13	7		
Washington County	May 24-July 13	7		
Wilkin County	Apr. 28-July 6	6		
Winona County	May 4-July 13	6		
Winona	June 21-July 18	2		
Wright County	Apr. 29-Aug. 11	50		
Yellow Medicine County	May 4-Aug. 11	16		
Total for State		1,778		
<b>Missouri:</b>				
Conway	Apr. 20-June 19	29		Present and in vicinity.
Durham	May 1-July 1			
Kansas City	June 14-Aug. 8	6		And vicinity.
La Belle	May 1-July 1	7		Do.
Lewiston	May 1-July 1	18		
Monticello	May 1-July 1	1		
St. Joseph	June 7-Aug. 29	32		
St. Louis	June 14-Oct. 24	6		
Total for State		99		
<b>Montana:</b>				
Beaverhead County	July 1-31	1		
Carbon County	July 1-Aug. 31	5		
Cascade County	May 1-Aug. 31	6		
Chouteau County	May 1-31	22		
Custer County	Aug. 1-31	1		
Dawson County	June 1-30	2		
Deerlodge County	May 1-31	1		
Fergus County	May 1-July 31	9		
Flathead County	May 1-Aug. 31	69		
Gallatin County	May 1-July 31	7		
Bozeman	June 1-Aug. 31	84		
Lewis and Clark County	May 1-31	3		
Helena	May 1-June 30	5		
Meagher County	May 1-July 31	2		
Missoula County	May 1-July 31	7		
Missoula	May 1-June 30	3		
Park County	July 1-Aug. 31	2		
Ravalli County	May 1-July 31	11		
Rosebud County	June 1-30	2		
Sanders County	July 1-31	1		
Silverbow County	Aug. 1-31	4		
Butte	June 1-Sept. 1	4		
Teton County	July 1-31	2		
Valley County	May 1-31	4		
Total for State		257		
<b>Nebraska:</b>				
Friend	Apr. 13-June 18	13		
Lincoln	Mar. 1-May 31	22		
South Omaha	June 7-13	1		
Total for State		36		

## Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>New Jersey:</b>				
Fort Hancock .....	July 30 .....	1		
Total for State .....		1		
<b>New York, general</b> .....	May 1-Aug. 31 .....	114		
New York .....	June 14-Oct. 17 .....	3	1	
Niagara Falls .....	June 14-20 .....	1		
Schenectady .....	June 1-30 .....	2		
Total for State .....		120	1	
<b>North Carolina:</b>				
Anson County .....	May 1-31 .....	30		
Bladen County .....	July 1-31 .....	1		
Cabarrus County .....	Apr. 1-May 31 .....	38		
Camden County .....	Apr. 1-July 31 .....	30		
Caswell County .....	June 1-30 .....			
Chatham County .....	Apr. 1-Aug. 31 .....	7		Present.
Chowan County .....	Apr. 1-May 31 .....	18		
Cleveland County .....	Apr. 1-July 31 .....	10		
Davie County .....	Apr. 1-30 .....	4		
Forsyth County .....	Apr. 1-30 .....	1		
Gates County .....	Apr. 1-30 .....	3		
Guilford County .....	Apr. 1-30 .....	6		
Greensboro .....	Aug. 12-22 .....	1		
Haywood County .....	Aug. 1-31 .....	5		
Johnston County .....	Apr. 1-June 30 .....	47		
McDowell County .....	Aug. 1-31 .....	1		
Mecklenburg County—				
Charlotte .....	June 14-Aug. 15 .....	4		
New Hanover County .....	Apr. 1-May 31 .....	6		
Orange County .....	Apr. 1-May 31 .....	3		
Pasquotank County .....	Aug. 1-31 .....	9		Present in July.
Richmond County .....	May 1-June 30 .....	2		
Bowen County .....	Apr. 1-May 31 .....	26		
Rutherford County .....	Apr. 1-30 .....	12		
Wayne County .....	Apr. 1-30 .....	5		
Yadkin County .....	Apr. 1-30 .....	2		
Total for State .....		266		
<b>Ohio, general</b> .....	Apr. 25-June 13 .....	200		
Canton .....	June 7-13 .....	1		
Cincinnati .....	June 20-Oct. 23 .....	15		
Dayton .....	June 14-Oct. 10 .....	18		
Springfield .....	July 12-18 .....	1		
Toledo .....	June 14-Aug. 16 .....	12		
Troy .....	Apr. 15-July 3 .....	28		
Zanesville .....	Aug. 1-31 .....	1		
Total for State .....		276		
<b>Oregon:</b>				
Portland .....	Apr. 1-Aug. 31 .....	181		
Total for State .....		181		
<b>Pennsylvania:</b>				
Philadelphia .....	Aug. 30-Sept. 4 .....	1		
Total for State .....		1		
<b>Rhode Island:</b>				
Pawtucket .....	June 12-29 .....	1		
Total for State .....		1		
<b>South Carolina:</b>				
General .....	Jan. 1-June 30 .....	170	1	
Total for State .....		170	1	
<b>Tennessee:</b>				
Knoxville .....	June 21-July 25 .....	2		
Livingston .....	June 13-Apr. 11 .....	9	1	
Nashville .....	June 14-Sept. 26 .....	2		
Total for State .....		13	1	

## Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Texas:</b>				
Encinal .....	Oct. 22 .....	.....	.....	Present.
Fort Worth .....	May 1-81 .....	9 .....	.....	
San Antonio .....	June 14-Oct. 10 .....	11 .....	.....	
Total for State .....	.....	20 .....	.....	
<b>Utah:</b>				
Cache County .....	May 1-81 .....	2 .....	.....	
Carbon County .....	June 1-80 .....	1 .....	.....	
Davis County .....	May 1-Sept. 80 .....	4 .....	.....	
Salt Lake County— Salt Lake City .....	May 1-Sept. 80 .....	47 .....	.....	
Uinta County .....	July 1-81 .....	1 .....	1 .....	
Utah County .....	May 1-Aug. 81 .....	20 .....	.....	
Weber County .....	May 1-June 80 .....	21 .....	.....	
Total for State .....	.....	96 .....	1 .....	
<b>Vermont:</b>				
Whiting .....	May 5 .....	1 .....	.....	
Total for State .....	.....	1 .....	.....	
<b>Virginia:</b>				
Alexandria .....	June 25-27 .....	13 .....	.....	
Waynesboro .....	June 1-July 81 .....	20 .....	.....	
Total for State .....	.....	33 .....	.....	
<b>Washington:</b>				
Seattle .....	May 1-Sept. 80 .....	40 .....	.....	
Spokane .....	June 7-Oct. 17 .....	71 .....	.....	
Tacoma .....	June 8-Oct. 25 .....	5 .....	.....	
Total for State .....	.....	116 .....	.....	
<b>West Virginia:</b>				
Charleston .....	Aug. 1-81 .....	2 .....	.....	
Moundsville .....	June 17-July 2 .....	1 .....	.....	
Total for State .....	.....	3 .....	.....	
<b>Wisconsin:</b>				
Adams County .....	Apr. 1-June 80 .....	1 .....	.....	
Ashland County .....	Apr. 1-June 80 .....	8 .....	.....	
Barron County .....	Apr. 1-June 80 .....	10 .....	.....	
Bayfield County .....	Apr. 1-June 80 .....	8 .....	.....	
Brown County .....	Apr. 1-June 80 .....	1 .....	.....	
Buffalo County .....	Apr. 1-June 80 .....	6 .....	.....	
Calumet County .....	Apr. 1-June 80 .....	5 .....	.....	
Chippewa County .....	Apr. 1-June 80 .....	50 .....	.....	
Clark County .....	Apr. 1-June 80 .....	7 .....	.....	
Crawford County .....	Apr. 1-June 80 .....	7 .....	.....	
Dane County .....	Apr. 1-June 80 .....	3 .....	.....	
Dodge County .....	Apr. 1-June 80 .....	37 .....	.....	
Door County .....	Apr. 1-June 80 .....	17 .....	.....	
Douglas County .....	Apr. 1-June 80 .....	82 .....	.....	
Dunn County .....	Apr. 1-June 80 .....	11 .....	.....	
Fond du Lac County .....	Apr. 1-June 80 .....	3 .....	.....	
Green County .....	Apr. 1-June 80 .....	8 .....	.....	
Jackson County .....	Apr. 1-June 80 .....	10 .....	.....	
Jefferson County .....	Apr. 1-June 80 .....	8 .....	.....	
Juneau County .....	Apr. 1-June 80 .....	6 .....	.....	
Kewaunee County .....	Apr. 1-June 80 .....	10 .....	.....	
La Crosse County— La Crosse .....	June 16-Oct. 24 .....	29 .....	.....	
Manitowoc County .....	Apr. 1-June 80 .....	27 .....	.....	
Manitowoc .....	Aug. 2-8 .....	1 .....	.....	
Marathon County .....	Apr. 1-June 80 .....	10 .....	.....	
Marquette County .....	Apr. 1-June 80 .....	23 .....	.....	
Milwaukee County .....	Apr. 1-June 80 .....	9 .....	.....	
Milwaukee .....	June 14-Oct. 8 .....	27 .....	1 .....	
Monroe County .....	Apr. 1-June 80 .....	4 .....	.....	
Oconto County .....	Apr. 1-June 80 .....	5 .....	.....	
Outagamie County .....	Apr. 1-June 80 .....	6 .....	.....	
Ozaukee County .....	Apr. 1-June 80 .....	28 .....	.....	
Pepin County .....	Apr. 1-June 80 .....	1 .....	.....	
Pierce County .....	Apr. 1-June 80 .....	18 .....	.....	
Polk County .....	Apr. 1-June 80 .....	5 .....	.....	
Portage County .....	Apr. 1-June 80 .....	1 .....	.....	
Rock County .....	Apr. 1-June 80 .....	6 .....	1 .....	

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Wisconsin—Continued.</b>				
Rusk County	Apr. 1-June 30	3		
St. Croix County	Apr. 1-June 30	3		
Sauk County	Apr. 1-June 30	2		
Sheboygan County	Apr. 1-June 30	28		
Taylor County	Apr. 1-June 30	10		
Trempealeau County	Apr. 1-June 30	1		
Vernon County	Apr. 1-June 30	3		
Vilas County	Apr. 1-June 30	1		
Walworth County	Apr. 1-June 30	3		
Washburn County	Apr. 1-June 30	4		
Waukesha County	Apr. 1-June 30	11		
Waupaca County	Apr. 1-June 30	3		
Winnebago County	Apr. 1-June 30	6		
Wood County	Apr. 1-June 30	44		
Total for State		625	2	
Grand total, United States		9,584	15	

Plague in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, July 15–November 6, 1908.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>California:</b>				
Alameda County—				
Oakland	July 21	1	1	
Contra Costa County—				
Concord	July 15	1	1	
Prenois Valley	July 24	1	1	10 miles from Martinez.
Los Angeles County—				
Los Angeles	August 11	1		

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

[For smallpox and plague, see special tables.]

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	Oct. 24	38,973	14	1	1	1	3			4					
Ann Arbor, Mich	Oct. 17	14,509	3	1						1					
Augusta, Ga	Oct. 20	39,441	23	2											
Baltimore, Md	Oct. 24	508,957	166	14	25	45	7	21	2	23	3	2			1
Bayonne, N. J	do	32,722				3		1		4					
Berkeley, Cal	Oct. 10	13,214	16		2					2					
Biddeford, Me	Oct. 24	16,146	6												
Binghamton, N. Y.	Oct. 17	38,647	14								1				
Boston, Mass	Oct. 24	560,892	187	44	12	21		57		87	4	25	4	13	1
Braddock, Pa	Oct. 17	15,654	4		3			1				1			
Bradford, Pa	Oct. 24	15,029	3		4			2							
Brockton, Mass	Oct. 17	40,063	14	4	1	2	1	1			2				
Cambridge, Mass	Oct. 24	91,886	23	7	2	1		21		10	2				
Camden, N. J	do	75,985	32		2			4		9	1				
Charlotte, N. C	Oct. 23	18,091	9	1	2					5					
Chelsea, Mass	Oct. 24	24,072	5			1		2		1					
Chicago, Ill	do	1,698,575	510	58	52	89	11	152	11	171	20	34		6	
Chicopee, Mass	do	19,167	4					2		1		1			
Cincinnati, Ohio	Oct. 23	325,902	111	12	11	4	2	17	1	16	1			1	
Cleveland, Ohio	do	381,768	125	40	10	30	3	23	1	41	4	2			
Cinton, Mass	Oct. 24	13,667	5											2	
Covington, Ky	do	42,938	13		2	2	2			2					
Detroit, Mich	do	285,704	130					5	1	36	2				

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

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Elizabeth, N. J.	Sept. 26	52,180	14	1	1										
Do.	Oct. 3	52,180	18					1		5					
Elkhart, Ind.	Oct. 24	15,184	6	2	2					10					
Erie, Pa.	Oct. 10	52,338	25	6	18	1	9		7	1		1			
Do.	Oct. 17	52,338	9	4	1	4	13								
Evansville, Ind.	Oct. 24	59,007	14	1	2	2			4	1					
Fall River, Mass.	do.	104,863	36	3	2			7		3					
Findlay, Ohio	do.	17,613	6		1			1		3					
Glens Falls, N. Y.	do.	13,543	3		1	1									
Gloucester, Mass.	do.	26,121	8		1										
Greensboro, N. C.	do.	10,035	5	2	3										
Greenville, S. C.	Oct. 17	11,860	4					3		1					
Do.	Oct. 24	11,860	5					3							
Harrison, N. J.	do.	10,596	4	2	1					3					
Hartford, Conn.	Oct. 18	79,850	34	1	2	7		6		10					
Haverhill, Mass.	Oct. 24	37,175	15	3	1	1		1		4					
Hoboken, N. J.	do.	59,364			2			3		7	1	1			
Hyde Park, Mass.	do.	13,244	4					4		4					
Indianapolis, Ind.	Oct. 18	169,164	57		10	16	2	2		44	1				
Jacksonville, Fla.	Oct. 17	28,429	13		2					1					
Jersey City, N. J.	Oct. 18	206,438	64		13	1		14		8					1
Johnstown, Pa.	Oct. 24	35,986	12		1	4	1	2		5		5	3		
Kalamazoo, Mich.	Oct. 17	24,404	19	12	1	2		1		1					
Kingston, N. Y.	do.	24,535	8		1						1				
La Crosse, Wis.	do.	28,995	4	1						3					
Lafayette, Ind.	Oct. 19	18,116	10		1	1		1							
Lawrence, Mass.	Oct. 17	62,559	29	3	2	5	2	1		5	1				
Lebanon, Pa.	Oct. 24	17,628	5			2	1	2							
Lexington, Ky.	Oct. 17	26,369	20		3		1			2	1				
Los Angeles, Cal.	do.	102,479	76	9	10	7	1	10		5	1		2		
Lowell, Mass.	Oct. 24	94,969	29	3	1	8		1		8					1
Lynn, Mass.	Oct. 17	68,513	20		2	2		6		8	1	2			
Malden, Mass.	do.	33,664	5					3		5	1				
Marquette, Wis.	Oct. 24	16,195	1	1	1										
Massillon, Ohio.	Oct. 17	11,944	1							1					
Do.	Oct. 24	11,944	1			3				1					
Medford, Mass.	do.	18,244	3					3		5		1			
Melrose, Mass.	do.	12,962	6	1	1	1	2			8					
Milwaukee, Wis.	Oct. 17	285,315	78	21	13	11	2	25		10		1		2	
Mobile, Ala.	do.	38,469	21		4			1		6					
Montclair, N. J.	Oct. 24	13,962	1	1				5							
Montgomery, Ala.	do.	30,346	20		2		1								
Mt. Vernon, N. Y.	do.	21,228	8			2		1		1		1			
Nanticoke, Pa.	Oct. 25	12,616	9			2				29					
Nashville, Tenn.	Oct. 24	80,865	37		4	29	1	4		7	2			1	
Newark, N. J.	Oct. 17	246,070	84		12	4	1	20	2	18	1				
New Bedford, Mass.	Oct. 24	68,442	24	3	2	3		2							
New Brunswick, N. J.	Oct. 17	20,006				1				2		4			
Do.	Oct. 24	20,006				1				1		17			
Newburyport, Mass.	do.	14,478	7												
New Orleans, La.	Oct. 17	278,104	148	23	20	18	4	21	1	16	2				1
Newton, Mass.	Oct. 24	38,587	4	1	2					5					
New York, N. Y.	Oct. 17	3,437,202	1,220	486	138	105	23	109	5	811	19	119	2	22	5
Do.	Oct. 24	3,437,202	1,228	509	156	84	16	129	2	322	17	133	6	26	1
Norristown, Pa.	do.	22,265	7					1							
North Adams, Mass.	do.	24,200	4			2	1	1							
Northampton, Mass.	do.	18,643	8			1									
Orange, N. J.	do.	24,141	10	5				1		1					
Ottumwa, Iowa.	do.	18,197	4			8		3		1					
Palmer, Mass.	do.	7,801	5												
Plainfield, N. J.	do.	15,369	1		1	2	1								
Port Huron, Mich.	Oct. 10	19,158	4			1	1								
Do.	Oct. 17	19,158	6												
Portland, Me.	Sept. 26	50,145	17	1		4		3	1	4	1				
Do.	Oct. 3	50,145	28		3	4		4		3					
Do.	Oct. 10	50,145	22		5	1		3		2				8	1
Portsmouth, N. H.	Oct. 24	10,687								1					
Portsmouth, Va.	Oct. 20	17,427	5			1						1			
Providence, R. I.	Oct. 24	175,597	60	2	7	2		5		29	2				
Racine, Wis.	do.	29,102	4		1			2		2					

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

Cities.	Week ended—	Popu- lation, 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.
Richmond, Va....	Oct. 17	85,050	37	4	1	10				7					1
Rock Island, Ill....	do	31,061	2	1				3							
Saginaw, Mich....	do	42,345	12			2		1		2					
St. Joseph, Mo....	do	102,979	17			1		1		1					
San Francisco, Cal....	do	342,782	96	21	12	8	1	11		5		24		3	2
Scranton, Pa....	do	102,026	30			2		9	3	8	2	1			
Somerville, Mass....	Oct. 24	61,643	16	6	1			12	1	9					
Spokane, Wash....	Oct. 17	38,848	31		5	23	1	4	1	11					
Springfield, Ill....	Oct. 22	34,159	14					3		3					
Springfield, Ohio....	Oct. 17	38,253	11	5											
Steelton, Pa....	Oct. 24	12,068	2					2		1	1				
Taunton, Mass....	do	31,036	6							3					
Terre Haute, Ind....	do	36,673	26		1	2	1	1				1			
Titusville, Pa....	do	8,244	3												
Topeka, Kans....	Oct. 17	33,608	20	2	4	1	1								
Trenton, N. J....	Oct. 24	73,307				6		2		4	1				
Waltham, Mass....	do	23,481	7			1		6		10				2	
Washington, D. C....	Oct. 17	278,718	111	47	19	48	3	6		13	1	5		2	
Wheeling, W. Va....	do	38,878	10	1		1				10					
Wichita, Kans....	do	24,671						3	1						
Wilkes-Barre, Pa....	Oct. 16	51,721	18	4		3		2		16	1			1	
Wilksburg, Pa....	Oct. 21	13,000	4	2		3		3		2					
Williamsport, Pa....	Oct. 17	28,757	6			1	1	5		3				3	
Wilmington, Del....	Oct. 24	76,608	21		2		2		1						
Woburn, Mass....	do	14,254	5							2					
Worcester, Mass....	Oct. 17	118,421	33	7	4			5		20	1			3	

## FOREIGN AND INSULAR.

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### BARBADOS.

*Reports from Bridgetown—Inspection and fumigation of vessels—Sanitary conditions.*

Acting Assistant Surgeon Urquhart reports, October 17:

Week ended October 17. Nine vessels were inspected and 2 fumigated. Number of passengers, 154; members of crews, 458.

The sanitary condition of this port remains good, no quarantinable diseases being reported for the week for the port or island.

*Yellow fever on St. Vincent Island.*

Consul Martin reports, October 6:

The consular agent at St. Vincent states that there were 2 deaths from yellow fever there September 10. He states that the source of the fever has not been traced.

### BRAZIL.

*Reports from Rio de Janeiro—Inspection of vessels—Mortality—Plague and smallpox.*

Acting Assistant Surgeon Stewart reports, September 23 and 30:

Week ended September 20. Vessels left this port for the United States, were inspected and received bills of health as follows: September 14 the British steamship *Lord Erne*, for Baltimore, with a cargo of manganese ore, and with no passengers and no change in the personnel of the crew; September 19 the British steamship *Verdi*, for New York, with a cargo of coffee and 10 cabin and 1 steerage passengers from this port, and 31 cabin and 21 steerage in transit and with no change in the personnel of the crew, and September 20 the British steamship *Hughenden*, for New York, in cargo of coffee, with no passengers and no change in the crew personnel. All steerage passengers from this port and from Santos vaccinated.

*Mortality in Rio de Janeiro—Plague and smallpox.*

Week ended September 20, 1908. Total estimated population, 811,443. Total deaths, 619. No deaths or cases due to yellow fever. There were, however, 2 new reported cases of plague, with no deaths. Smallpox caused 296 deaths, with 715 new reported cases, of which 200 were in the city suburbs. At the close of the week there were in



the Hospital São Sebastião 482 cases of smallpox and 3 cases of plague, and in the Hospital Engenho de Dentro 170 cases of smallpox. In the Hospital Paulo Candido there were 212 convalescents from smallpox.

Week ended September 26. Vessels inspected and received bills of health: September 20, the British steamship *Hughenden*, for New York, with a cargo of coffee and no passengers and no change in the personnel; September 25, the Brazilian steamship *Sergipe*, for New York, with a general cargo for Brazilian coast ports, no cargo for New York, with 14 cabin and 22 steerage passengers and all crew new in Brazil, all vaccinated by order of the local health authorities; September 26, the British steamship *Livingstonia*, for Norfolk, Va., in water ballast and with no passengers and no change in the crew here; on the same date the British steamship *Glenarm Head*, for New Orleans, La., with 1 passenger (cabin), in water ballast and with no change in the crew personnel, and on the same date the British steamship *Norman Prince*, for New York, in cargo of coffee and with no passengers and no change in the personnel of the crew. No other vessels requiring inspection left the port.

*Mortality in Rio de Janeiro—Plague and smallpox.*

Week ended September 27, 1908. Total deaths, 602. There were 5 new reported cases of plague, with 1 fatality, and 564 new reported cases of smallpox (of which number 187 were in the suburbs) with 291 deaths. This is a very considerable decrease in the number of cases from the previous week, when there were 715 reported cases. At the close of the week there were in the Hospital São Sebastião 459 cases of smallpox and 6 cases of plague. In the Hospital Engenho de Dentro there were 175 cases of smallpox and in the Hospital Paulo Candido there were 224 convalescents from smallpox.

CHINA.

*Reports from Hongkong—Quarantine restrictions—Cholera—Inspection of vessels—Examination of emigrants.*

Acting Assistant Surgeon Hough reports, September 22:

Week ended September 12. Restrictions enforced by Hongkong remain as reported on August 1.

Restrictions enforced against Hongkong remain as reported on August 1.

Quarantinable disease: Cholera, 3 cases, 3 deaths. Vessels inspected and granted bills of health, 6.

Week ended September 19.

Restrictions enforced by Hongkong are as follows:

Disease.	Port or place.	Restrictions in force.
Cholera .....	Amoy .....	Medical examination; quarantine at the discretion of the health officer.

## Restrictions enforced against Hongkong are as follows:

Place or port.	Nature of measures.
Shanghai.....	Hongkong declared an infected port.
Chefoo.....	Do.
Niuchwang.....	Do.

Quarantinable disease: Cholera, 3 cases, 3 deaths.

Vessels inspected and granted bills of health, 6.

*Aliens for Honolulu and Pacific coast ports.*—Examined, 505; rejected, 158.

*Aliens for Philippine Islands.*—Examined, 64; rejected, 47.

Rejections were for trachoma.

## COSTA RICA.

*Report from Limon, fruit port.*

Acting Assistant Surgeon Goodman reports:

Week ended October 17. Estimated population, 6,000. 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.
Oct. 11	San Jose.....	Boston.....	44	9	0
12	Prinz Joachim.....	New York.....	129	65	7
13	Nicoya.....	do.....	52	0	0
14	Cartago.....	New Orleans.....	87	16	51
16	Reventazon.....	New York.....	54	1	0

One bill of health for Panaman port was viséed; certificates were issued to 29 passengers bound for Colon.

## CUBA.

*Reports from Cienfuegos—Inspection and fumigation of vessels:*

Acting Assistant Surgeon Suarez reports, October 5, 12, and 19:

*Week ended October 3.*

Bills of health issued.....	3
Vessels inspected and fumigated.....	3
Members of crews inspected.....	64

No quarantinable disease was reported during the week.

*Week ended October 10.*

Vessels inspected and bills of health issued.....	2
Members of crews inspected.....	65

No quarantinable disease reported during the week.

*Week ended October 17.*

Vessels inspected.....	4
Bills of health issued.....	4
Vessels fumigated.....	3
Members of crews inspected.....	113

No quarantinable disease was reported in the city or vicinity during the week.

*Report from Habana—Inspection and fumigation of vessels—Two cases of yellow fever from steamships—House and water-deposit inspection—Stegomyia calopus present.*

Passed Assistant Surgeon Amesse reports, October 27:

*Week ended October 24.*

Vessels inspected.....	16
Bills of health issued.....	20
Members of crews of outgoing vessels inspected.....	927
Passengers of outgoing vessels inspected.....	432
Certificates issued to passengers bound for southern ports.....	77
Vessels fumigated prior to sailing.....	4

The sanitary department reports the detection of 2 imported cases of yellow fever during the week, with the following histories:

Case 1: American seaman, steamship *Monterey*, 4 days out from Veracruz, was found ill with fever on arrival of the vessel at this port, October 19, and immediately transferred to Las Animas Hospital, where the commission for infectious diseases returned a positive diagnosis October 21. This patient spent 5 nights ashore at Veracruz. The case is a severe one and the prognosis bad.

Case 2: Spanish nonimmune, en route Buenos Aires to Mexico, via West India ports. This case arrived at Santiago de Cuba per French steamship *Salvador*, October 14, and was taken sick on the same date. Careful inquiry shows that the man boarded the vessel at San Domingo, one of the way ports of the *Salvador*, which on this trip had been fumigated by the service at St. Thomas prior to her clearance for points in Porto Rico. Leaving San Domingo October 9 the steamship called successively at Jacmel, Port au Prince, and Jeremie, ports in the Republic of Haiti, and thence proceeded to Santiago.

The patient remained in Santiago for 3 days without medical attendance; then came on to Habana and, on the day of his arrival, was taken to the municipal hospital at Guanabacoa, where he died October 20.

On account of the failure to trace his movements while at Santiago all boarding houses and inferior hotels in that city are being fumigated.

Sanitary conditions in Habana are satisfactory. The city health officer reports for the past week 12,300 house inspections, in which 67 deposits of mosquito larvæ were found, 45 of these being collections of *Stegomyia calopus*.

Mosquitoes are again becoming numerous along the water front.

*Report from Matanzas—Inspection of vessels.*

Acting Assistant Surgeon Nuñez reports, October 26:

Bills of health issued to 4 vessels bound for United States ports in good sanitary condition. No vessel was fumigated.

The health condition of the city and surrounding country continues good. No quarantinable diseases were reported during the week.

*Report from Santiago—Inspection and fumigation of vessels.*

Acting Assistant Surgeon Infante reports, October 19:

Week ended October 17. Bills of health issued to 7 vessels bound for the United States. One vessel, the *Julia*, bound for San Juan, Porto Rico, was fumigated to kill mosquitoes.

No quarantinable disease was reported during the week.

## ECUADOR.

*Sanitary convention between Ecuador and Panama ratified.*

The following is received from the Department of State under date of October 30:

The sanitary convention between Ecuador and Panama was signed at Quito October 26, and the minister at Quito reports, in a telegram dated October 26, 1908, that the said convention has been ratified.

## FRANCE.

*Reports from Nantes—Further relative to yellow fever at St. Nazaire.*

Consul Goldschmidt reports, October 13:

Since October 8 5 other cases of yellow fever have been discovered among men who had been members of the crew of the steamship *La France*. Some of these cases were admitted to the hospital and 2 more have died of the disease, making a total of 5 deaths from yellow fever at St. Nazaire to date.

The fatal cases and those now under treatment all belonged to the crew of *La France*.

Consul Goldschmidt further reports, October 20:

To date there have been 11 cases of yellow fever at St. Nazaire, with 6 deaths.

## GERMANY.

*Report from Berlin—Status of cholera in Russia.*

The following is received from Consul-General Thackara, under date of October 16:

According to official statistics published in the Bulletin of the imperial health office, there were registered in the 15 hospitals of St. Petersburg during the fortnight ended September 23, noon, 3,637 cases of cholera with 1,245 deaths.

The total number of cases of cholera during the week ended October 3, for the whole of the Russian Empire, was 3,251 with 1,571 deaths.

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<sup>a</sup> See Public Health Reports, October 16, p. 1506, and October 23, p. 1543, 1908.

## HAWAII.

*Report from Honolulu—Examination of rodents for plague infection.*

Passed Assistant Surgeon Currie, Plague Laboratory, reports, October 10, through Chief Quarantine Officer Cofer:

*Week ended October 10.*

Rats taken in Honolulu.....	1,083
Rats trapped in Honolulu.....	639
Rats found dead in Honolulu.....	1
Rats shot from trees in Honolulu.....	443
Rats examined bacteriologically.....	872
Rats showing plague infection.....	0

## CLASSIFICATION OF RATS SHOT FROM TREES.

<i>Mus alexandrinus</i> .....	190
<i>Mus rattus</i> .....	157
Total classified.....	347

## CLASSIFICATION OF RATS TRAPPED.

<i>Mus rattus</i> .....	133
<i>Mus norvegicus</i> .....	49
<i>Mus alexandrinus</i> .....	82
<i>Mus musculus</i> .....	374
Total classified.....	638
Average number of traps set daily.....	1,438

## HONDURAS.

*Report from Ceiba, fruit port—Stegomyia calopus numerous.*

Acting Assistant Surgeon Jumel reports:

Week ended October 20. Present officially estimated population, 6,500. General sanitary condition of this port and the surrounding country during the week, bad. Continued storms and heavy rainfall have destroyed or blown away many mosquitoes. *Stegomyia calopus* numerous.

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.
Oct. 14	Viator.....	18	0	0	0
15	Helen.....	22	0	0	0
17	Joseph Vaccaro.....	35	0	0	0
18	Orleanian.....	32	0	0	0
19	Colombia.....	20	0	0	0
19	John Wilson.....	18	0	0	0

All of the above-named vessels were fumigated with sulphur in accordance with service requirements.

*Reports from Puerto Cortez, fruit port—Stegomyia calopus and Anopheles present—Sanitary work.*

Acting Assistant Surgeon Ames reports:

Week ended October 3. Present officially estimated population, about 2,400. General sanitary condition of this port and the surrounding country, excellent. *Stegomyia calopus* and *Anopheles* present. Filling of low places in Puerto Cortez continues; 2,100 cubic yards recently dumped.

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.
Sept. 28	Alabama .....	Mobile .....	18	2	0
30	Mercator .....	New Orleans.....	17	5	0
30	Colombia.....	Mobile .....	20	0	0
Oct. 1	Preston.....	New Orleans.....	38	5	0

Temperature taken of all persons on above-named vessels on day of sailing (except the s. s. *Colombia*).

Week ended October 17. General sanitary condition of this port and the surrounding country, excellent. *Stegomyia calopus* and *Anopheles* present. Filling of Puerto Cortez continues; 4,300 cubic yards dumped past week.

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.
Oct. 14	Mercator .....	New Orleans .....	17	3	0
15	Preston.....	do .....	35	1	0
16	Helen .....	Mobile.....	22	0	0

Temperature taken of all persons on above-named vessels on day of sailing.

*Reports from Tela, fruit port.*

Acting Assistant Surgeon Roe reports:

Week ended October 10. Present officially estimated population, about 1,250. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Oct. 4	Colombia.....	Mobile .....	20	0	0

Week ended October 17. 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.
Oct. 12	Harald .....	Mobile.....	18	0	0
12	Viator .....	New Orleans .....	18	0	0

## INDIA.

*Reports from Calcutta—Transactions of service—Cholera, plague, and smallpox—Plague in India and Bengal.*

Acting Assistant Surgeon Eakins reports, October 1:

During the week ended September 26 a bill of health was issued to the steamship *Mashona*, bound for Boston and New York, with a total crew of 85. The usual precautions were taken, the holds fumigated, rat guards placed on the wharf lines, and the Asiatics' effects disinfected.

During the week ended October 3 a bill of health was issued to the steamship *Kattenturn* bound for Boston and New York with a total crew of 74. The usual precautions were taken, the holds fumigated, rat guards placed on the wharf lines, and the Asiatics' effects disinfected.

During the week ended September 19 there were 5 deaths from cholera, 7 from plague, and 3 from smallpox in Calcutta. In Bengal there were 11 cases of plague, with 7 deaths. In India during the same period there were 2,724 cases of plague, with 1,977 deaths.

## JAPAN.

*Report from Yokohama—Inspection of vessels—Cholera at Moji—Cholera on steamship Manchuria at Nagasaki from Hongkong.*

Passed Assistant Surgeon Cumming reports, October 6:

During the week ended October 3, bills of health were issued to 3 vessels, having an aggregate personnel of 100 cabin and 480 steerage passengers, and with 445 members of crews. One of the vessels was bound to New York, one to Seattle, and one to San Francisco.

No quarantinable disease has been reported in this vicinity.

Cholera is still on the increase at Moji, there being several hundred cases reported. The Pacific Mail Steamship *Manchuria*, from Hongkong via Shanghai, is detained at Nagasaki quarantine because of a case of cholera, a stowaway from Shanghai.

The Russian Government has declared Kobe plague infected.

*Examination of emigrants.*

Number of emigrants per steamship *China*, October 6, advised to wait: For Honolulu, 2.

Per steamship *Tosa Maru*, October 10: For Seattle, rejected 1, advised to wait 1.

*Report from Kobe—Inspection of vessels—Examination of emigrants—Epidemic dysentery declining.*

Acting Assistant Surgeon Slade reports, October 6:

During the week ended October 3, 5 supplemental bills of health were granted to 5 steamships.

There were inspected 105 members of crews and 652 steerage passengers; 73 steerage passengers were bathed and disinfected and their effects were disinfected by steam. The number of pieces of baggage steamed was 179 and of bedding 144. Manifests were viséed for 62,113 pieces of freight, amounting to 5,754 tons.

Emigrants were examined as follows: Steamship *Kaga Maru* for Seattle, passed 33; recommended for rejection, 5; steamship *Siberia* for Honolulu, passed 29; recommended for rejection, 14; steamship *China* for Honolulu, passed 9; recommended for rejection, 13; steamship *China* for San Francisco, passed 1; recommended for rejection, none. The emigrants passed, together with 1 intending passenger to Victoria by the steamship *Kaga Maru*, were inspected, bathed, and disinfected and their effects disinfected before embarkation.

The number of cases of dysentery is rapidly declining. For week ended September 26 the report gives 12 new cases and 1 death. Ten cases recovered and 26 cases are still under treatment.

*Cholera at Moji and Kokura—Quarantine regulations relative to cholera-infected vessels.*

Sanitary Inspector Bowie reports, October 1:

Cholera is still epidemic at Moji, 15 cases having been reported there September 28 and 29. It has also been reported at Kokura, a town on the railroad between this port and Moji, but to date the number is limited.

Under recent regulations of the quarantine authorities all vessels arriving at this port on which cholera has occurred during the previous fourteen days must undergo fumigation and the passengers must be bathed and disinfected at once.

*Emigrants recommended for rejection.*

Doctor Bowie further reports:

October 16. Number of emigrants per steamship *China* for Honolulu recommended for rejection, 3.

MEXICO.

*Report from Coatzacoalcos—Inspection and fumigation of vessels—Sanitary conditions.*

Acting Assistant Surgeon Thompson reports, October 22:

Week ended October 21. Four vessels inspected. Of these, 2 were fumigated. No quarantinable case has been reported. The health of the port is satisfactory.



*Report from Mexico City—Outbreak of typhus fever.*

Information is received from the American embassy at Mexico City, through the Department of State, of an epidemic outbreak of typhus fever in Belem prison in that city. October 8, 300 cases were reported; October 12, 20 cases were under observation as against 28, 30, and 60 cases declared during the three preceding days. October 15, the epidemic was reported as disappearing.

*Report from Tampico—Inspection and fumigation of vessels.*

Acting Assistant Surgeon Stowe reports, October 21:

*Week ended October 20.*

Vessels inspected and passed .....	6
Bills of health issued .....	6
Members of crews of outgoing vessels inspected.....	170
Vessels fumigated prior to sailing.....	2

No cases of quarantinable diseases occurred during the week.

*Sanitary improvements at Tampico.*

Consul Trippett reports, October 7:

A modern sewerage system has been installed at Tampico, and a large part of the formerly low, swampy, and poorly drained sections of the city has been filled in and drained.

*Report from Salina Cruz—Inspection and fumigation of vessels.*

Acting Assistant Surgeon McPherson reports, October 16:

During the period October 1 to 15, inclusive, 2 steamships were inspected and fumigated.

*Reports from Veracruz—Inspection and fumigation of vessels—Status of yellow fever—Smallpox at Veracruz, Alvarado, and Tlacotalpan.*

Acting Assistant Surgeon Jacobs reports, October 23 and 25:

Week ended October 24.

Total bills of health issued, 3; total numbers of crews inspected, 183; passengers, cabin, 57; steerage, 4.

Yellow fever status: Twenty-five cases with 12 deaths to date. Five cases occurred during past 2 weeks.

In the report for week ended October 17, a case of smallpox isolated October 13 was omitted. This brings the number to 3 cases. All the cases are isolated in the pesthouse outside the city.

Smallpox has been present at Alvarado, a small port about 30 miles south of Veracruz, for some weeks. Reports give about 15 cases and 1 death. The disease is also present at Tlacotalpan, a small place about 40 miles from Alvarado on the Tlacotalpan River.

## NIGARAGUA.

*Report from Bluefields, fruit port—Few Stegomyia calopus present.*

Acting Assistant Surgeon Layton reports:

Five days ended October 21. Present officially estimated population, 2,500. General sanitary condition of this port and the surrounding country during the week, good. Mosquitoes more numerous.

Few *Stegomyia calopus* observed.

Bill of health issued to the following-named vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Oct. 15	Bluefields .....	New Orleans.....	23	8	0

Temperatures of all on board above-named ship taken at hour of departure; all normal.

## PANAMA.

*Report from Bocas del Toro, fruit port.*

Acting Assistant Surgeon Osterhout reports:

Week ended October 13. Present officially estimated population, 4,954. 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.	Pieces of baggage disinfected.
Oct. 7	Katie .....	Mobile .....	22	0	0	0
8	Frutera .....	New York .....	26	0	0	0
9	Harry T. Inge.....	New Orleans..	28	1	0	0
10	Fort Morgan.....	Mobile .....	26	1	0	0
11	Corinto .....	New Orleans..	24	0	0	0

<sup>a</sup> Via Port Antonio, Jamaica.

## PERU.

*Report from Callao—Inspection and fumigation of vessels—Plague at Callao—Smallpox at Callao and Lima—Plague at Iquique—Summary of transactions, month of September, 1908.*

Acting Assistant Surgeon Gutierrez reports, October 3, 5, and 11:

Week ended October 3. One Chilean steamship and 2 ships with an aggregate personnel of 141 crew, 52 cabin and 89 steerage passengers, received bills of health. The 3 vessels were fumigated.

The date of the last case of plague in Callao was September 26.

Since my last report 2 cases of plague and 1 case of smallpox have occurred in Callao. In Lima there was 1 case of smallpox. Ten cases are isolated in the lazaretto.

Bills of health report plague in Chile as follows: Iquique, September 29, 2 cases of plague are in the lazaretto; there was 1 new case during the last 2 weeks.

During the week ended October 10, 2 steamships and 1 American schooner were granted bills of health. They carried an aggregate personnel of 176 members of crews, 50 cabin and 54 steerage passengers. The 3 vessels were fumigated.

The following is the last report on plague in Peru received from the Director de Salubridad pública:

Locality.	Cases Sept. 22.	New.	Recov-ered.	Died.	Remain- ing Sept. 28.
Lima .....	12			4	8
Chorrillos.....	3				3
Callao .....	1	3			4
Trujillo (city) .....	32	2	6	5	32
Trujillo (country).....					
Chepen .....	5	6		3	7
Ferrenaje .....	2		1		1
Payta .....	1				1
Mollendo.....	4		2		2
Chiclayo.....		1			1

*Summary, month of September, 1908.*

Vessels fumigated .....	8
Vessels inspected.....	2
Members of crews inspected .....	686
Cabin passengers inspected .....	250
Steerage passengers inspected .....	252
Health certificates issued to steerage passengers .....	212
Persons vaccinated .....	333
Pieces of baggage inspected and passed .....	21
Pieces of baggage disinfected.....	247

RUSSIA.

*Report from St. Petersburg—System of combating cholera—Disinfection—Hospital service.*

Passed Assistant Surgeon Grubbs reports, October 14, from Paris:

By permission of the president of the sanitary commission I inspected the system now in operation against cholera at St. Petersburg, and examined the cases at the Botkine Memorial Hospital.

In ordinary times the city (approximately 1,500,000 inhabitants) is divided into 11 sanitary districts, each with its sanitary inspectors and 1 ambulance station. House-to-house inspections are made at all times. The ambulance stations are simply out-patient dispensaries or ambulatoria, where all who apply for any disease are treated or sent to hospitals.

To meet the present situation, this system has been amplified by setting aside, in each station, certain rooms especially for cholera work where there are: (1) a physician on duty night and day ready to go instantly to see any case of illness that may be reported; (2) a corps of disinfectors, 2 of whom take charge of the rooms that may be infected, send all clothes, bedding, etc., to the central disinfecting plant and spray the walls and furniture with a bichloride solution; and (3) a vaccination service, all applicants being injected with a heat-killed culture

of cholera organisms, 3 injections of approximately 1, 1½, and 2 c. c. being made at intervals of 4 or 5 days. The cultures are made at Moscow.

In addition to the 11 original stations 11 more for cholera only have been established, each as described above, with the exception of the inoculation service.

As soon as a suspected case is discovered the patient is at once conveyed to the nearest hospital receiving cholera cases, and two disinfectors take charge of the rooms with which the sick came in contact. All easily movable articles are sent in covered carts to the city disinfecting plant at the Botkine Memorial Hospital and the walls and furniture are sprayed with a bichloride of mercury solution.

During the process, which requires from 24 to 36 hours, the healthy inhabitants of the quarters are invited to live free of charge at one of the 3 isolation stations of the city, a comfortable vehicle being provided to carry them. On admission to the isolation building they are bathed, given a clean hospital suit of clothes, and their effects are steamed. They have good beds and are given good food. They may take anticholera inoculations if they wish, but no compulsion is used. If they refuse to come to the isolation station, the inspector simply tries to keep a special watch over them for a few days.

The city disinfecting plant is a thoroughly up-to-date institution. It is intended that in it any article can be disinfected without damage. To this end there are 5 chambers, each having an opening on either side of a central wall. The first is a tank in which water boils; this is for soiled linen. The second is a chamber for formaldehyde (or other) gas, plus dry heat or steam. The third and fourth are steam chambers for steam under pressure. The fifth is a large chamber for formaldehyde gas.

The cause of the spread of the disease is admitted to be the city water. The entire water system is old and has been outgrown by the city. In many samples examined by the imperial laboratory cholera vibrios have been found. The intake, placed originally but a short distance up the Neva, has now some factories and many dwellings above it. Boiled water is now being distributed for drinking purposes, a small tank, from which the water is drawn through a faucet, being situated at almost every street corner, while large posters are displayed with the words "Do not drink raw water."

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

ALGERIA—*Algiers*.—Month of September, 1908. Estimated population, 155,000. Total number of deaths, 240, including enteric fever 4, smallpox 13, diphtheria 2, measles 1, and 46 from tuberculosis.

AZORES—*St. Michaels*.—Month of July, 1908. Estimated population, 121,183. Total number of deaths, 349, including enteric fever 3, scarlet fever 1, whooping cough 1, and 1 from tuberculosis.

BAHAMA ISLANDS—*Turks Islands*.—Three weeks ended October 17, 1908. Estimated population, 1,800. Total number of deaths, 3.

BRAZIL—*São Paulo, Santos, and Campinas*.—Two weeks ended September 20, 1908. Estimated population, 300,000. Total number of

deaths, 421, including measles 6, enteric fever 3, smallpox 41, whooping cough 6, diphtheria 3, and 38 from tuberculosis.

**FRANCE—Roubaix.**—Month of September, 1908. Estimated population, 121,115. Total number of deaths, 123, including enteric fever 2, measles 1, scarlet fever 2, whooping cough 4, and 18 from tuberculosis.

**Toulon.**—Month of September, 1908. Estimated population, 105,000. Total number of deaths, 123, including 3 from typhus fever and 1 from measles.

**GREAT BRITAIN—England and Wales.**—The deaths registered in 76 great towns in England and Wales during the week ended October 10, 1908, correspond to an annual rate of 12.8 per 1,000 population, which is estimated at 16,234,952.

**London.**—One thousand one hundred and twenty-two deaths were registered during the week, including measles 9, scarlet fever 12, diphtheria 7, enteric fever 5, whooping cough 7, tuberculosis 114, and 71 from diarrhea. The deaths from all causes correspond to an annual rate of 12.2 per 1,000. In Greater London 1,564 deaths were registered. In the "outer ring" the deaths included 2 from measles, 7 from diphtheria, 2 from whooping cough, 2 from scarlet fever, and 12 from diarrhea.

**Salford.**—Week ended October 10, 1908. Estimated population, 239,294. Total number of deaths, 62, including 8 from diarrhea.

**Ireland.**—The average annual death rate represented by the deaths registered during the week ended October 10, 1908, in the 21 principal town districts of Ireland was 14.1 per 1,000 of the population, which is estimated at 1,131,959. The lowest rate was recorded in Dundalk, viz, 4, and the highest in Londonderry, viz, 26.8 per 1,000.

**Scotland.**—The deaths registered in 8 principal towns during the week ended October 10, 1908, correspond to an annual rate of 13.6 per 1,000 of the population, which is estimated at 1,839,038. The highest rate of mortality was recorded in Dundee and Aberdeen, viz, 15.8, and the lowest in Leith, viz, 10.5 per 1,000. The aggregate number of deaths registered from all causes was 481, including diphtheria 11, enteric fever 3, scarlet fever 2, whooping cough 9, and 28 from diarrhea.

**JAPAN—Formosa.**—Two weeks ended September 19, 1908. Estimated population, 3,050,004. Total number of deaths not reported. Six deaths from enteric fever.

**MALTA.**—Two weeks ended October 3, 1908. Estimated population, 206,690. Total number of deaths, 168, including enteric fever 2, diphtheria 1, and 8 from tuberculosis.

**MAUKITIUS—Port Louis.**—Month of July, 1908. Estimated population, 376,635. Total number of deaths 1,321, including enteric fever 4, diphtheria 3, plague 2, and 81 from tuberculosis.

SPAIN—*Cadiz*.—Month of September, 1908. Estimated population, 69,382. Total number of deaths, 134, including enteric fever 2, whooping cough 6, and 25 from tuberculosis.

*Seville*.—Month of September, 1908. Estimated population, 148,315. Total number of deaths, 332, including enteric fever 4, scarlet fever 2, diphtheria 4, whooping cough 4, and 72 from tuberculosis.

YUCATAN—*Merida*.—Two months ended September 30, 1908. Estimated population, 60,000. Total number of deaths, 837, including yellow fever 7, enteric fever 6, leprosy 1, and 41 from tuberculosis.

*Progreso*.—Two months ended September 30, 1908. Estimated population 5,000. Total number of deaths, 22, including 1 from tuberculosis.

*Cholera, yellow fever, plague, and smallpox, from June 27 to November 6, 1908.*

[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 December 27, 1907, to June 26, 1908, see PUBLIC HEALTH REPORTS for June 26, 1908.]

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

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Austria:</b>				
Ostrowo .....	Sept. 8 .....	76	39	
Tarnopol .....	Sept. 14 .....	1		
<b>Ceylon, general</b> .....	May 17-23 .....		1	
Colombo .....	June 7-Aug. 15 .....	33	22	20 cases in the asylum for the insane.
<b>China:</b>				
Amoy (Kulansu) .....	July 26-Sept. 19 .....		40	
Canton .....	June 21-27 .....			Present.
Hankau .....	July 19-Sept. 12 .....	20	14	Among foreigners.
Do .....	July 19-Aug. 18 .....	10,790	1,397	Among natives.
Hanyang .....	July 27-Aug. 18 .....		200	
Hongkong .....	June 14-Sept. 19 .....	48	52	
Shanghai .....	Aug. 17-Sept. 27 .....			Present, and in vicinity.
Wuchang .....	Aug. 5-18 .....		2,140	100 cases in military encampment.
<b>India:</b>				
Bombay .....	May 20-Sept. 29 .....		26	
Calcutta .....	May 10-Sept. 12 .....		290	On s. s. Annie, en route May 23-June 1, 2 deaths.
Kurrachee .....	Aug. 8-Sept. 4 .....		26	
Madras .....	May 16-Oct. 2 .....		996	
Negapatam .....	Sept. 5 .....	11	8	
Rangoon .....	May 17-Sept. 26 .....		61	
<b>Indo-China:</b>				
Bien Hoa .....	June 21-27 .....	60	59	
Cholen .....	May 10-Aug. 15 .....	160	156	
Saigon .....	May 10-Sept. 19 .....	100	71	Reports May 23 and June 6 include Cholen.
<b>Japan:</b>				
<b>Awaji Island—</b>				
Yura .....	Sept. 1-5 .....	7	6	Sept. 12. Epidemic.
Chiba ken .....	Jan. 1-Sept. 5 .....	3		
Ehime ken .....	Jan. 1-Sept. 5 .....	1		
Kanagawa ken .....	Jan. 1-Sept. 5 .....	3		
Kawasaki .....	Aug. 23 .....	1		
Kokoora .....	Oct. 1 .....			Present.
Kure .....	Aug. 15 .....			Present on steamer from Calcutta.
Moji .....	Aug. 8-Sept. 29 .....	85	28	Oct. 3. Still present.
Nagasaki .....	Oct. 3 .....	1		From s. s. Manchuria.
Oita ken .....	Jan. 1-Sept. 5 .....	1		
Tokyo .....	Aug. 22 .....	1		Present in vicinity.
Tokushima .....	Aug. 2-Sept. 5 .....	2		
Wakamatsu .....	Aug. 25-Sept. 15 .....	6	3	
Yamaguchi ken .....	Jan. 1-Sept. 5 .....	1		
Yokohama .....	Aug. 17-23 .....	5	1	On British steamer in quarantine.

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

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Teheran .....	July 3 .....	1	1	
Philippine Islands:				
Manila .....	June 7-Sept. 12 .....	117	102	3 cases to June 23 on railroad from Pangasinan Province. First quarter calendar year 1908, 208 cases, 167 deaths. Second quarter, 2 cases and 4 deaths.
Provinces, general .....	July 12-18 .....	3	2	First quarter calendar year 1908, 806 cases, 628 deaths. Second quarter, 3,488 cases and 2,315 deaths. Provinces north of Manila, June 28-July 4, 614 cases, 331 deaths.
Antique .....	Sept. 6-12 .....	126	151	
Ascurrago .....	July 26-Aug. 1 .....	20	20	
Bataan .....	Jan. 1-Mar. 31 .....	20	18	
Benguet .....	July 26-Aug. 8 .....	6	3	
Bulacan .....	Jan. 1-Sept. 12 .....	297	213	
Capiz .....	Jan. 1-Sept. 12 .....	843	265	
Cavite .....	Jan. 1-Mar. 31 .....	22	20	
Iloocos Sur .....	July 12-Sept. 12 .....	1,869	1,344	
Iloilo .....	Aug. 9-Sept. 12 .....	2,391	1,591	
Jaro .....	July 26-Aug. 1 .....	17	10	
La Laguna .....	Jan. 1-Sept. 12 .....	5	4	
Mindoro .....	Jan. 1-Mar. 31 .....	32	20	
Misamis .....	July 12-Sept. 5 .....	993	413	Including Balingasang and Cagayan.
Negros Occidental .....	Sept. 6-12 .....	167	163	
Nueva Ecija .....	July 4-Sept. 5 .....	396	206	
Nueva Vizcaya .....	July 12-Aug. 29 .....	34	27	
Pampanga .....	Jan. 1-Sept. 12 .....	220	180	
Pangasinan .....	Jan. 1-Sept. 12 .....	2,146	1,261	
Rizal .....	Jan. 1-Sept. 12 .....	232	190	
Santa Barbara .....	July 26-Aug. 1 .....	15	9	
Tarlac .....	Jan. 1-Sept. 5 .....	276	106	
Union .....	July 12-Sept. 12 .....	975	652	
Zambales .....	Feb. 2-Mar. 31 .....	62	48	
Russia, general .....	July 21-Oct. 1 .....	19,612	8,947	
Astrakhan govt. district .....	July 19-Oct. 3 .....	1,470	698	
Baku .....	Aug. 7-Sept. 17 .....	91	43	
Batoom .....	Aug. 10 .....			Present in vicinity.
Charkov district .....	Sept. 12-17 .....	3	3	
Charnigov .....	Sept. 4-16 .....	2	1	
Cronstadt .....	Sept. 15 .....			Present.
Don, territory of .....	July 19-Aug. 17 .....	506	260	
Ekaterinislav .....	Aug. 8-17 .....	66	1	
Helsingfors .....	Sept. 17 .....	10		On s. s. Saxon Briton.
Iritusk .....	Sept. 3 .....	1	1	
Jenneisk .....	Aug. 28-Sept. 17 .....	7	4	
Kazan .....	Aug. 7-Sept. 17 .....	125	40	
Kerch-Ynikalé prefecture .....	Sept. 4-25 .....	49	25	
Kerson .....	Sept. 4-12 .....	4	2	
Kief district .....	Aug. 21-Sept. 17 .....	135	41	
Kirghis Steppe .....	Sept. 12 .....			Present.
Kostroma .....	Aug. 8-Sept. 17 .....	102	49	
Kooban .....	Aug. 7-Sept. 17 .....	463	265	
Moscow district .....	Aug. 29-Oct. 10 .....	15	10	
Nakhchivan .....	Aug. 7-14 .....	19	6	
New Peterhof .....	Sept. 4-12 .....	1	1	
Nijni Novgorod .....	Aug. 7-Sept. 17 .....	614	247	
Odesa .....	Sept. 1-25 .....	12	8	
Oofa .....	Aug. 7-Sept. 28 .....	9	4	
Orel govt .....	Sept. 4-12 .....	5	3	
Orenburg .....	Sept. 4-17 .....	4	4	
Penza .....	Aug. 8-17 .....	1		
Perm .....	Aug. 8-Sept. 17 .....	19	7	
Poltava govt .....	Sept. 4-28 .....	73	40	
Pskov .....	Sept. 11-17 .....	2	1	
Riga .....	Sept. 20-Oct. 10 .....	17		
Rostov .....	July 26-Sept. 17 .....	779	395	
Samara govt. district .....	July 19-Sept. 17 .....	493	272	
Saratov .....	July 19-Sept. 17 .....	609	349	
Siberia .....	Sept. 12 .....			July 19, present, also, on vessels. Along Yenisei River.
Simbirsk govt. district .....	Aug. 7-Sept. 28 .....	61	5	July 31, present.
St. Petersburg .....	Sept. 9-Oct. 2 .....	6,411	2,429	
Syr-Daria .....	Sept. 4-12 .....	30	15	
Tachkent .....	Aug. 29-Sept. 10 .....	23	8	
Taganrog .....	Aug. 29-Sept. 10 .....	52	31	
Tambov govt. district .....	July 31-Sept. 28 .....	22	18	

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

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia, general—Continued.</b>				
Tavride .....	Sept. 4-12 .....	6	3	
Terek territory .....	Sept. 4-28 .....	26	8	
Tiflis .....	Aug. 8-Sept. 17 .....	37	44	
Transcaspien territory .....	Sept. 12-25 .....	13	6	
Tula .....	Aug. 7-14 .....	2	1	
Tver district .....	Sept. 12-25 .....	18	7	
Ufa district .....	Sept. 12-17 .....	254	148	
Ural territory .....	Sept. 4-12 .....	266	140	
Vistula district .....	Sept. 10 .....	.....	.....	Present.
Vladimir govt. .....	Sept. 4-12 .....	10	2	
Voronej .....	Sept. 4-12 .....	5	2	
Warsaw .....	Aug. 2-8 .....	2	2	Imported.
Zaritzyn .....	July 24-Sept. 3 .....	237	132	July 19, present, also, on vessels; Aug. 29, 250 cases daily.
<b>Siam:</b>				
Bassein .....	May 10-16 .....	.....	.....	Present.
<b>Straits Settlements:</b>				
Singapore .....	May 10-Sept. 19 .....	.....	24	

## YELLOW FEVER.

<b>Barbados:</b>				
Bridgetown .....	Oct. 6-12 .....	1	1	
<b>Brazil:</b>				
Bahia .....	July 22-Aug. 31 .....	5	2	July 22, 3 cases from Italian bark Sacro Cuore de Jeso. Report Aug. 22 not received.
Manaos .....	May 26-Sept. 26 .....	33	33	
Para .....	May 31-Sept. 26 .....	42	39	
Pernambuco .....	June 15-Sept. 15 .....	4	4	
Rio de Janeiro .....	June 1-Aug. 15 .....	3	3	
<b>Cuba:</b>				
Habana Province—				
Habana .....	Sept. 13-Oct. 20 .....	4	3	Case Oct. 2 from s. s. Merida; case Oct. 19 from s. s. Monterey; case Oct. 14-20 from s. s. Sal- vador.
Santiago (Oriente) Prov- ince—				
Antilla .....	Sept. 8 .....	.....	.....	Case removed to Santiago Aug. 29.
Daiquiri .....	June 27-Aug. 15 .....	20	4	
Firmeza .....	Aug. 22 .....	1	1	
Santiago .....	Aug. 29-Sept. 6 .....	1	1	From Antilla and Mayari. Imported.
<b>Curacao:</b>				
Guayaquil .....	May 31-Sept. 12 .....	.....	16	
<b>France:</b>				
St. Nazaire .....	Sept. 25-Oct. 20 .....	11	6	From s. s. La France from West Indian ports.
<b>Honduras:</b>				
Ceiba .....	Sept. 24 .....	1	.....	
<b>Martinique:</b>				
Fort de France .....	June 27-Oct. 10 .....	58	12	And vicinity.
<b>Mexico:</b>				
Acapulco .....				
.....	Sept. 12 .....	1	1	On Mexican s. s. Manuel Her- reras.
Frontera .....	July 12 .....	1	.....	
Laguna del Carmen .....	Aug. 29 .....	2	.....	
Laguna de Terminos .....	June 9-July 12 .....	8	2	From May 18, 4 cases additional from s. s. Lembit.
Merida .....	Aug. 23-Oct. 15 .....	19	11	
Tierra Blanca .....	July 27 .....	1	.....	
Veracruz .....	July 7-Oct. 26 .....	26	13	
<b>Porto Rico:</b>				
San Juan .....	July 5 .....	.....	.....	1 case on s. s. Julia.
<b>St. Vincent Island:</b>				
.....	Sept. 6-Oct. 3 .....	3	2	
<b>Venezuela:</b>				
.....	June 26 .....	80	40	Estimated. In Upata, Guasi- pati, and Callao.



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

## PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Algeria:</b>				
Algiers	Sept.		1	From s. s. Blythwood in voyage.
<b>Australia:</b>				
Brisbane	June 6-Aug. 8.	3	1	Case, June 6-11, at Clifton.
Sydney	Feb. 25-June 24.	4		
<b>Austria:</b>				
Trieste	Sept. 21.	2		From s. s. Erzherzog Frans Ferdinand from Bombay.
<b>Asores:</b>				
Fayal	Aug. 10-Sept. 21.	9	4	
Terceira	July 1-Sept. 21.	51	20	
<b>Brazil:</b>				
Bahia	July 29-Aug. 31.	3	2	
Pernambuco	June 1-15.		1	
Rio de Janeiro	May 11-Sept. 27.	19	2	
São Paulo	May 18-Aug. 30.		3	
<b>British East Africa:</b>				
Port Florence	June 11-July 11.	27	22	
<b>British Gold Coast:</b>				
Akra	May 20-Aug. 7.	3	5	
<b>Chile:</b>				
Antofagasta	May 18-Aug. 12.	64	6	
Arica	July 15-22.	2		From Jan. 1-Apr. 30 179 cases and 47 deaths.
Iquique	May 20-Sept. 29.	34	3	
<b>China:</b>				
Amoy	Aug. 8.		1	Apr. 26-Oct. 1, present in native city and up-country districts. July 21-Aug. 1, epidemic. Mainly imported. June 27, still present.
Canton	May 1-June 9.	10		Present.
Changshan	Sept. 26.			Do.
Foochoo	Apr. 6-July 18.			Do.
Hongkong	May 10-Sept. 5.	875	738	Do.
Hsing-Sua	June 2-3.			Do.
Swatow	July 4-Aug. 14.			Do.
Tongshan	Oct. 16.			Epidemic.
<b>Ecuador:</b>				
Babohoyo	Sept. 19-Oct. 5.	4	1	
Guayaquil	May 31-Sept. 5.		23	
<b>Egypt:</b>				
Alexandria	May 27-Oct. 5.	72	40	Case, July 9, from s. s. Perseo.
Port Said	July 3-Oct. 5.	12	8	July 5, 1 case on s. s. Orenoque.
<b>Provinces—</b>				
Assiout	May 27-July 5.	6	3	
Minieh	May 15-July 31.	6	2	
Dakahlieh	June 2-Sept. 15.	3		
Garbieh	May 16-Oct. 4.	47	19	
Girgeh	Apr. 23-Oct. 13.	6	6	
Fayoum	May 28-Aug. 4.	81	45	
Beni Souef	May 29-Aug. 8.	42	13	
Kena	May 28-July 25.	44	44	
Galyoobeeyeh	May 21-Aug. 3.	39	17	
Menouf	May 26-Sept. 28.	94	24	
<b>India:</b>				
Bombay Presidency and Sind.	Apr. 26-Aug. 29.	7,673	5,889	
Madras Presidency	Apr. 26-Aug. 29.	1,427	862	
Bengal	Apr. 26-Aug. 29.	997	934	
United Provinces	Apr. 26-Aug. 29.	1,519	1,372	
Punjab	Apr. 26-Aug. 29.	13,510	11,116	
Burma	Apr. 26-Aug. 29.	2,175	2,122	
Central provinces, including Berar.	Apr. 26-Aug. 29.	263	207	
Coorg	May 24-June 27.	8	5	
Mysore State	Apr. 26-Aug. 29.	2,173	1,536	
Usmanabad and Raichur districts.	Aug. 9-15.	69	51	
Hyderabad State	July 19-Aug. 29.	307	256	
Central India	Apr. 26-Aug. 29.	59	39	
Rajputana	Apr. 26-June 27.	624	469	
Kashmir	Apr. 26-Aug. 29.	27	15	
Northwest frontier province.	Apr. 26-July 18.	456	404	
<b>Grand total.</b>		<b>31,287</b>	<b>25,277</b>	

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

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Cholen .....	May 10-Sept. 5 .....	121	114	
Baigon .....	May 10-Sept. 19 .....	153	100	Cholen included, July 6 and 18.
<b>Japan:</b>				
Awaji Island—				
Yura .....	Sept. 26 .....	48	5	
Formosa .....	May 10-Aug. 15 .....	620	506	From May 15 epidemic at Taiwan; 25 cases reported daily.
Kobe .....	May 24-Sept. 19 .....	9	7	
Nara .....	June 14-20 .....	14		
Nishinomiya .....	To Sept. 24 .....	5		
Osaka .....	May 10-June 27 .....	19	18	
Yokohama .....	Aug. 26 .....	2		On s. s. Itsukushima in voyage.
Mauritius .....	May 31-Sept. 19 .....	14	9	
<b>Peru:</b>				
Callao .....	May 20-Sept. 28 .....	33	12	Oct. 10, still present.
Chepen (Pacasmayo) .....	July 8-Sept. 28 .....	39	21	And vicinity.
Chiclayo .....	May 20-Sept. 28 .....	20	15	
Chorrillos .....	Aug. 18-Aug. 24 .....	2		
Ferrenafe .....	July 21-Sept. 21 .....	8	3	
Guadalupe .....	Aug. 5-18 .....	1	1	
Lima .....	May 20-Sept. 21 .....	89	51	Do.
Mollendo .....	June 2-Sept. 21 .....	7	2	
Monsefu .....	June 2-8 .....	1		
Niepos (Hualgayoc) .....	June 2-8 .....	2		
Paiza (La Huaca) .....	July 21-Sept. 21 .....	8	3	
Salaverry .....	May 2-July 19 .....	17		
Santa Eulalia (Huarochiri) .....	July 21-Aug. 3 .....	1		
San Jose (Lambayeque) .....	July 21-Aug. 3 .....	4	4	
Trujillo .....	May 20-Sept. 28 .....	238	110	Do.
<b>Siam:</b>				
Bangkok .....	May 3-June 20 .....	18	12	
Puket .....	May 9 .....			Present
Tongkah .....	May 4 .....			Do.
<b>Straits Settlements:</b>				
Singapore .....	May 17-30 .....		2	
<b>Trinidad:</b>				
Port of Spain .....	June 4-Sept. 30 .....	17	13	
<b>Turkey in Asia:</b>				
Adalia .....	July 27-Sept. 23 .....	5	3	
Bagdad .....	June 7-Sept. 7 .....	76	50	
<b>Uruguay:</b>				
Montevideo .....	Apr. 1-May 31 .....		5	
<b>Venezuela:</b>				
Caracas .....	June 10-Oct. 4 .....	60	15	Sept. 28, still present.
La Guaira .....	June 16-30 .....	5	2	Aug. 5, present.
Maiquetia .....	June 28 .....	1		Suburb of La Guaira.

SMALLPOX.

<b>Algeria:</b>				
Algiers .....	June 29-Sept. 30 .....		29	
<b>Arabia:</b>				
Aden .....	May 28-Oct. 5 .....		122	
<b>Argentina:</b>				
Buenos Aires .....	Mar. 1-May 31 .....		4	
<b>Austria:</b>				
Bukowina .....	July 12-Sept. 26 .....	10		
Galicia .....	May 24-July 4 .....	5		
Silesia .....	July 19-25 .....	4		
<b>Borneo:</b>				
Sandakan .....	Apr. 16-June 30 .....	43	16	
<b>Brazil:</b>				
Bahia .....	May 1-July 31 .....	409	31	
Campinas .....	June 29-July 5 .....		2	
Para .....	June 28-July 4 .....	2	2	
Pernambuco .....	May 1-Sept. 15 .....		288	
Rio de Janeiro .....	May 11-Sept. 27 .....	9,684	4,295	Case Sept. 26 froms. s. Amazonas. July 8-16, 1 case and 1 death on s. s. Peruviana, and August 28 1 case on s. s. Hillfern on voyage.
Santos .....	May 18-Sept. 20 .....		56	1 case July 10 from s. s. Spartan Prince.
São Paulo .....	Aug. 10-Sept. 20 .....		38	
<b>British South Africa:</b>				
East London .....	July 12-Aug. 15 .....	10		

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

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Canada:</b>				
Manitoba—				
Winnipeg .....	Oct. 4-10 .....	1		
Nova Scotia—				
Halifax .....	June 14-Oct. 24 .....	41		
Ontario—				
Hamilton .....	June 1-30 .....	3		
Ceylon, general .....	Apr. 1-30 .....		2	
Colombo .....	June 29-Sept. 19 .....	83	16	
<b>China:</b>				
Amoy (Kulangsu) .....	Apr. 5-Aug. 1 .....		1	August 15, still present.
Foochoo .....	Apr. 26-June 27 .....			Present.
Hongkong .....	May 10-July 18 .....	30	18	
Nankin .....	June 11 .....			Epidemic.
Shanghai .....	May 18-July 19 .....	2	12	
Cuba, general .....	Sept. 1-10 .....	1		
Habana .....	Oct. 1-7 .....			1 case on s. s. Westerwald, not landed.
<b>Denmark:</b>				
Copenhagen .....	Sept. 20-26 .....	2		
<b>Ecuador:</b>				
Guayaquil .....	May 31-Sept. 26 .....		51	
<b>Egypt, general .....</b>	May 14-Sept. 16 .....	655	229	
Cairo .....	May 31-Oct. 7 .....	61	23	
Suez .....	June 18-July 1 .....	6		
<b>France:</b>				
Marseille .....	July 1-31 .....		1	
Paris .....	May 31-Oct. 3 .....	16		
Toulon .....	May 1-Sept. 30 .....	4		
<b>Germany, general .....</b>	May 24-Sept. 5 .....	50		
Bremen .....	May 24-June 6 .....	3		
Chemnitz .....	Aug. 2-19 .....	2		
Konigsberg .....	Aug. 2-8 .....	1		
Ulm .....	Aug. 23-29 .....	1		
<b>Great Britain:</b>				
Liverpool .....	Apr. 30-Aug. 29 .....	5		
Grenada Island .....	Sept. 12-26 .....	6		
<b>India:</b>				
Bombay .....	May 20-Oct. 6 .....		222	
Calcutta .....	May 10-Sept. 5 .....		143	
Madras .....	May 23-Aug. 14 .....		2	
Bangroon .....	Aug. 16-Sept. 26 .....		4	
<b>Indo-China:</b>				
Cholen .....	May 24-Sept. 5 .....	11	6	
Saigon .....	July 19-Sept. 19 .....	11	8	
<b>Italy:</b>				
General .....	June 8-Oct. 11 .....	620		
Catania .....	May 22-July 31 .....		4	
Genoa .....	May 1-Aug. 31 .....	9		
Messina .....	July 19-25 .....			Present.
Naples .....	June 7-Oct. 17 .....	124	11	
Palermo .....	May 24-Sept. 26 .....	33	4	
Piscinola .....	Sept. 12-30 .....	18	1	
Turin .....	June 8-14 .....	3	1	
<b>Japan:</b>				
Formosa .....	June 7-13 .....	1		
Kobe .....	May 31-Sept. 12 .....	13		May 30, 1 case on s. s. Mongolia; June 13, 1 case on s. s. Mun- caster Castle.
Nagasaki .....	May 26-31 .....	1		
Osaka .....	May 10-Aug. 1 .....	115	59	
Yokohama .....	June 2-29 .....	3		
<b>Java:</b>				
Batavia .....	May 10-Sept. 19 .....	66	3	
<b>Mexico:</b>				
Acapulco .....	Sept. 20-26 .....	3		
Aguascalientes .....	June 8-Sept. 20 .....		9	
Alvarado .....	Oct. 1-17 .....	15	1	
Mexico City .....	May 10-Sept. 5 .....		226	
Monterey .....	June 8-14 .....		1	
Tlacotalpan .....	Oct. 1-17 .....			Present.
Veracruz .....	Oct. 8-10 .....	2		
<b>Netherlands, The:</b>				
Amsterdam .....	July 27-Aug. 1 .....	1		
<b>Norway:</b>				
Christiania .....	Aug. 9-Oct. 26 .....	157	16	
<b>Peru:</b>				
Callao .....	Oct. 10 .....	1		Aug. 29-Sept. 5, present. Among troops.
Lima .....	June 1-Oct. 10 .....	5		Oct. 10, 10 cases in the lazaretto.
Paíta .....	Aug. 25 .....			Present, and in vicinity.

<sup>a</sup> Cases among foreigners; deaths among natives.

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

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands:</b>				
Manila .....	May 3-Sept. 12....	155	58	First quarter calendar year 1908, 42 cases; 12 deaths; 2d quarter, 151 cases, 64 deaths. Sept. 5, 1 case on <i>M. S. Changsha.</i>
<b>Porto Rico:</b>				
Mayaguez .....	June 7-27.....	6		
<b>Portugal:</b>				
Cascaes .....	Sept. 12-18 .....	1		
Lisbon .....	May 31-Oct. 10....	42		
<b>Russia:</b>				
Batoom .....	May 1-31 .....	1		
Libau .....	Aug. 30-Sept. 5....	1	1	
Moscow .....	May 24-Oct. 3.....	359	178	
Odessa .....	May 24-Aug. 29....	39	4	
Riga .....	June 7-Oct. 10....	25		
St. Petersburg .....	May 17-Sept. 12....	461	108	
Warsaw .....	May 10-Sept. 26....		103	
<b>Siberia:</b>				
Vladivostok .....	May 6-June 21....	11		
<b>Spain:</b>				
Barcelona .....	June 1-Aug. 31....		13	
Cadiz .....	July 27 .....			Present.
Madrid .....	Sept. 1-30 .....		2	
Malaga .....	Mar. 1-Apr. 30....		4	July 27, present.
Valencia .....	June 1-Oct. 17....	89	10	
Vigo .....	Sept. 27-Oct. 17....		2	
<b>Straits Settlements:</b>				
Penang .....	Aug. 2-22 .....	2	1	
Singapore .....	May 24-Sept. 5....		6	
<b>Switzerland:</b>				
Zurich .....	Aug. 23-29 .....	3		
<b>Turkey in Asia:</b>				
Bagdad .....	May 10-Sept. 5....	183	67	
Smyrna .....	May 13-Oct. 6....		21	
Trebizond .....	Sept. 27-Oct. 3....			Present.
<b>Turkey in Europe:</b>				
Constantinople .....	June 1-Oct. 18....		126	
Zanzibar .....	June 8-July 21....		2	



## 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.	Whooping cough.				
Mannheim.....	Sept. 26	179,780	43	7														
Mayaguez.....	Oct. 3	35,700	24	2														
Do.....	Oct. 10	35,700	21	2														4
Moncton.....	Oct. 19	13,500	2															
Monterey.....	Oct. 18	100,000	57	4														
Moscow.....	Sept. 26	1,335,104	648	62	3			7	5								6	3
Munich.....	do.....	556,000	147	18						1								
Do.....	Oct. 3	556,000	164	24						1								
Nagasaki.....	Sept. 27	173,118	51							1								
Newcastle-on-Tyne.....	Oct. 10	272,969	69	7														1
Niuchwang.....	Sept. 19	60,000	14															
Nottingham.....	Oct. 3	260,000	74															
Nuevo Laredo.....	Oct. 17	8,000	3															
Nuremberg.....	Sept. 19	311,650	101	15								1	3					2
Do.....	Sept. 26	311,650	88	8								2	1					
Palermo.....	Sept. 19	330,000	103	6									1					
Do.....	Sept. 26	330,000	110	5									2					
Para.....	Oct. 3	185,000	51	7														
Do.....	Oct. 10	185,000	64	8			1	3										
Paris.....	Oct. 3	2,776,394	775	176							9	2	2	2	2	4	4	5
Do.....	Oct. 10	2,776,394	748								6	4						
Port Elizabeth.....	Sept. 26	32,959	9															
Queenstown.....	Oct. 10	7,684	1															
Rangoon.....	Sept. 19	252,155	189	8	5	1		2										
Rotterdam.....	Oct. 10	408,796	99									6	1					
Saigon.....	Sept. 12	208,000	20	17				3										
St. Petersburg.....	do.....	1,678,000	874	121		76				29	16	15	9					.8
Do.....	Sept. 19	1,678,000	1,415	114		652		1	1	34	12	5	21					8
Do.....	Sept. 26	1,678,000	1,997	134		1,135				35	12	10	13					16
San Feliu de Guixols.....	Oct. 10	11,094	4	1														
Shanghai.....	Sept. 6	300,000	215	26									2					
Sheffield.....	Oct. 3	440,000	148	11						1				2				
Do.....	Oct. 10	440,000	131	9							1				2			
Singapore.....	Sept. 12	260,000	234	22		4				2								
Southampton.....	Oct. 10	122,196	29	2														
Stockholm.....	Sept. 26	337,460	73	14								1						
Texucigalpa.....	Oct. 7	24,000	5															
Trieste.....	Oct. 3	213,719	79								1	2						
Venice.....	Sept. 12	176,815	57	5														
Do.....	Sept. 19	176,815	53	7						1			2					
Do.....	Sept. 26	176,815	51	7						1			1					
Victoria, B. C.....	Oct. 17	27,500	3															
West Hartlepool.....	Oct. 10	66,750	14															
Winnipeg.....	Oct. 17	118,000	40										1					
Yokohama.....	Sept. 23	378,884								4								
Zanzibar.....	Aug. 31	70,000	26	2						3								
Do.....	Sept. 7	70,000	30	2														
Do.....	Sept. 14	70,000	27	9														
Zurich.....	Oct. 10	180,000	52	8									1					

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.