

# PUBLIC HEALTH REPORTS

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## THE THEORY OF THE PARASITIC ORIGIN OF PELLAGRA.

By C. H. LAVINDER, Passed Assistant Surgeon, United States Public Health and Marine-Hospital Service.

My experience and observations regarding pellagra in Italy have thus far served to make evident one fact. While of course the great majority of the Italian medical world hold the view that there is some important, if not well understood, etiological relation between pellagra and the use of spoiled corn as an article of diet, there are nevertheless at least some students of the disease who have begun seriously to question such an etiological relation. And this has resulted, it seems to me, in a perceptible tendency, more or less strong among certain students of pellagra, to disregard corn entirely as an etiological factor in this disease and to seek some new idea to explain its occurrence. This tendency is in the direction of some protozoal or animal parasite and has been, in all likelihood, produced and stimulated by the ideas of Sambon, first expressed in 1905 at the meeting of the British Medical Association, when he stated that he believed the disease to be caused by a protozoal parasite, probably transmitted by some blood-sucking insect.

Recently there has been formed, as announced in the medical press, a British commission for the study of pellagra, and Sambon has been sent to Italy to try to establish his views on the etiology of the disease.

Sambon's theory has been worked out much more in detail than when first presented, in 1905, and has attracted much serious attention. I have learned personally from him that so far his work in Italy, largely of an epidemiological nature, has greatly strengthened him in his belief in the accuracy of his theory and that he feels confident of its ultimate proof.

### SAMBON'S THEORY.

Succinctly expressed, this theory in its main features is as follows, the details having been kindly furnished me by Doctor Sambon:

Pellagra is not due to maize, either good or bad, because—

1. It is found in places where maize is neither cultivated nor eaten.
2. It is absent from many places where maize is the staple food of the population.
3. It has in many places either decreased or become more prevalent without any change in the food of the people.
4. Its constant and peculiar distribution does not agree with the very irregular and ever-changing distribution of spoiled maize.

5. In over a century and a half, since the maize theory was first suggested, no one has been able to prove it.

The belief that the disease has everywhere followed the introduction of corn cultivation is unfounded. Pellagra was first recognized as a specific disease in the beginning of the eighteenth century, but this does not prove that it was not prevalent long before that time.

Pellagra is a parasitic disease because:

1. For years the person affected may present some seasonal recurrences, which can only be explained by a parasitic agent with alternating periods of activity and latency.

2. It shows a constant and characteristic topographic distribution.

3. It shows a definite seasonal incidence.

4. Its symptoms, course, duration, morbid anatomy, as well as its therapy, are similar to those of parasitic diseases.

5. Of two places, almost contiguous, one may be affected, the other not.

Pellagra is an insect-borne disease because:

1. It is limited, like malaria, sleeping sickness, etc., to rural places and more especially to the vicinity of certain water bodies.

2. It has a definite seasonal incidence—spring and autumn.

3. It affects, to a large extent, a certain class of people—the field laborers.

4. It is not contagious and neither food nor water can account for its peculiar epidemiology.

5. Within its endemic centers it affects all ages and frequently whole families.

6. Outside its endemic centers only adults who have visited the infection areas present the disease and frequently only one or two members in a family are affected.

Pellagra is conveyed by *Simulium reptans* because:

1. *Simulium* is found in the torrents and swift running streams of all pellagra districts.

2. *Simulium* has the peculiar seasonal distribution of pellagra (spring and autumn).

3. *Simulium* is found only in rural districts. It is unknown in towns and villages. It does not enter houses.

4. *Simulium* explains most admirably the peculiar limitation of the disease to field laborers.

5. *Simulium* is the only blood-sucking insect which the British field commission has found in its visits to numerous pellagrous districts in Italy.

6. *Simulium reptans*, like *Anopheles maculipennis*, has a world-wide distribution and explains the wide distribution of pellagra. It is found wherever pellagra is found.

7. *Simulium* causes epizootics in animals in America and in Europe.

8. Professor Mesnil has found a protozoal organism in *simulium*.

#### ATTITUDE IN AMERICA.

The judicial mental attitude which American investigators have so far shown with regard to the etiology of pellagra is certainly to be commended in the present unsatisfactory status of this question. The etiology of pellagra is still an open question. The belief that the disease bears some relation to spoiled corn has so dominated the

etiological field and has received the support of so many men of wide experience that it can not be now entirely disregarded; but certainly it need not be accepted with so complete a dogmatism as to prevent investigation along other suggestive lines.

The theory of Sambon has interested me greatly, and it seems that now, when this theory has been elaborated so much more in detail, it is well worthy of serious attention at the hands of American students and investigators.

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## FLEAS COLLECTED FROM SQUIRRELS FROM VARIOUS PARTS OF CALIFORNIA.

By GEORGE W. MCCOY, Passed Assistant Surgeon, and MAURICE B. MITZMAIN, Assistant, Plague Laboratory, United States Public Health and Marine-Hospital Service.

During the past few months ground squirrels (*Citellus beecheyi*) have been received at the plague laboratory at San Francisco from 17 counties in California. The majority of these squirrels had been shot by the employees of the service, but a few had been trapped and sent in alive. As the majority of fleas desert the host when the body becomes cold after death, comparatively few fleas were present upon the dead hosts. The examination of the squirrels for fleas is a matter requiring so much time and labor that only a small number of the rodents were combed.

The only host considered here is the California ground squirrel (*Citellus beecheyi*), but some of the squirrels were members of two varieties (\*) of the species, *Citellus beecheyi douglasi* from Solano County, and *Citellus beecheyi fisheri* from some of the southern counties. These varieties differ chiefly from the type species *Citellus beecheyi* in the color markings of the pelage.

We would call attention to the fact that *Argopsylla gallinacea* (Westw.) End. is here reported for the first time from the California ground squirrel. This flea, which occurs rarely on the rat in California, is the normal parasite of the domestic fowl. It is fair to assume that the squirrels from which these fleas were removed were associated directly or remotely with chicken yards. The *A. gallinacea* was found on several of the squirrels in great numbers, and strange to say, was always found on the head, especially in the region of the mouth and eyes.

We take occasion also to call attention to the presence of *Ctenopsyllus musculi* (Duges) Wag. on the ground squirrel. This is the blind flea of the mouse and rat. It has heretofore been recorded from the squirrel under conditions of experimental transference from rats to squirrels, but we have here the first record of the occurrence of *Ct. musculi* in nature. It was obtained from two counties.

*Hoplopsyllus affinis* Baker and *Spilopsyllus inaequalis* Baker are rabbit fleas and their accidental presence on ground squirrels is easily accounted for.

It will be noted that *Ceratophyllus acutus* Baker predominates on the squirrels from every county. It has been previously shown, experimentally, that this flea is capable of transferring plague from one squirrel to another.

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\* We are indebted to Prof. Joseph Grinnell, of the Department of Mammalogy of the University of California, at Berkeley, for the identification of these varieties.



# UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

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## PLAGUE-PREVENTION WORK.

Passed Assistant Surgeon McCoy reports:

### SAN FRANCISCO, CAL.

Last case of human plague sickened January 30, 1908. Last case of rodent plague trapped October 23, 1908. Total number of rats found infected to date, 398.

Week ended May 14, 1910. Premises inspected, 6,468. Houses destroyed, 11. Buildings condemned, 4. Nuisances abated, 136. Poisons placed, 7,700. Rats trapped, 2,229. Rats found dead, 36. Gophers trapped, 6. Rats identified, 2,265, as follows: *Mus norvegicus*, 1,810; *Mus rattus*, 83; *Mus musculus*, 296; *Mus alexandrinus*, 76. Average number of traps set daily, 7,581. Rats examined bacteriologically, 1,651. No plague-infected rats found.

### BERKELEY, CAL.

There is no record of rodent plague in Berkeley. The last case of human plague sickened August 28, 1907.

Week ended May 14, 1910. Rats trapped, 3. Rats identified, 3, all being *Mus norvegicus*. Rats examined bacteriologically, 3. No plague infection found.

### OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last case of rodent plague found December 1, 1908.

Week ended May 14, 1910. Rats found dead, 37. Rats trapped, 529. Rats identified, 566, as follows: *Mus norvegicus*, 479; *Mus musculus*, 87. Rats examined bacteriologically, 479. No plague-infected rats found.

### ALAMEDA COUNTY, CAL. (Exclusive of the city of Oakland).

Last case of human plague sickened 2 miles southwest of Sunol September 26, 1909. Last case of rodent plague found March 25, 1910. To the present time 76 ground squirrels and 1 wood rat have been found infected.

Week ended May 14, 1910. Ranches inspected, 5. Ground squirrels shot, 41. Rabbits shot, 11. Acres covered with poison, 59. Examined bacteriologically, 41 ground squirrels and 11 rabbits. No plague infection found.

**MONTEREY COUNTY, CAL.**

There is no record of human or rodent plague in Monterey County. Week ended May 14, 1910. Ranches inspected, 18. Ground squirrels shot, 1,070; found dead, 1. Ground squirrels examined bacteriologically, 1,068. No plague-infected squirrels found.

**SAN BENITO COUNTY, CAL.**

There is no record of human plague in San Benito County. A plague-infected rodent was found October 15, 1909.

Week ended May 14, 1910. Ranches inspected, 7. Ground squirrels shot, 292. Ground squirrels examined bacteriologically, 292. No plague-infected squirrels found.

**SAN JOAQUIN COUNTY, CAL.**

There is no record of human or rodent plague in San Joaquin County.

Week ended May 14, 1910. Ranches inspected, 7. Ground squirrels shot, 567; found dead, 4. Ground squirrels examined bacteriologically, 570. No plague-infected squirrels found.

**SAN LUIS OBISPO COUNTY, CAL.**

There is no record of human plague in San Luis Obispo County. A plague-infected rodent was found January 29, 1910.

Week ended May 14, 1910. Ranches inspected, 4. Ground squirrels shot, 226. Ground squirrels examined bacteriologically, 223. No plague-infected squirrels found.

**SAN MATEO COUNTY, CAL.**

There is no record of human or rodent plague in San Mateo County.

Week ended May 14, 1910. Ranches inspected, 7. Ground squirrels shot, 187. Ground squirrels examined bacteriologically, 181. No plague-infected squirrels found.

**SANTA BARBARA COUNTY, CAL.**

There is no record of human or rodent plague in Santa Barbara County.

Week ended May 14, 1910. Ranches inspected, 2. Ground squirrels shot, 313; found dead, 2. Ground squirrels examined bacteriologically, 308. No plague-infected squirrels found.

**SANTA CLARA COUNTY, CAL.**

There is no record of human plague in Santa Clara County. A plague-infected rodent was found November 3, 1909. Total number of ground squirrels found infected to date, 9.

Week ended May 14, 1910. Ranches inspected, 6. Ground squirrels shot 190. Ground squirrels examined bacteriologically, 189. No plague-infected squirrels found.

**SANTA CRUZ COUNTY, CAL.**

There is no record of human plague in Santa Cruz County. A plague-infected squirrel was found November 6, 1909.

Week ended May 14, 1910. Ranches inspected, 10. Ground squirrels shot, 121. Ground squirrels examined bacteriologically, 117. No plague-infected squirrels found.

**STANISLAUS COUNTY, CAL.**

There is no record of human or rodent plague in Stanislaus County.

Week ended May 14, 1910. Ranches inspected, 10. Ground squirrels shot, 431. Ground squirrels examined bacteriologically, 419. No plague-infected squirrels found.

Assistant Surgeon Chapin reports:

**SEATTLE, WASH.**

No case of human plague since October 30, 1907. The last plague-infected rat was found February 8, 1910. Total plague-infected rats to date, 22.

Week ended May 14, 1910. Rats received, 945. Rats necropsied, 793. No plague-infected rats found.

**SMALLPOX IN THE UNITED STATES.****Reports Received During Week Ended June 3, 1910.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Alabama:</b>				
Montgomery.....	May 15-21.....	7		
<b>California:</b>				
Berkeley.....	May 1-7.....	1		
San Francisco.....	May 7-13.....	1		
District of Columbia.....	May 14-21.....	3		
<b>Florida:</b>				
Duval County.....	May 15-21.....	2		
Hillsboro County.....	May 15-21.....	1		
Volusia County.....	May 15-21.....	1		
<b>Indiana:</b>				
Adams County.....	Mar. 1-31.....	8		
Allen County.....	Mar. 1-31.....	21		
Carroll County.....	Mar. 1-31.....	3		
Cass County.....	Mar. 1-31.....	6		
Davless County.....	Mar. 1-31.....	2		
Fulton County.....	Mar. 1-31.....	2		
Grant County.....	Mar. 1-31.....	2		
Greene County.....	Mar. 1-31.....	2		
Hamilton County.....	Mar. 1-31.....	2		
Howard County.....	Mar. 1-31.....	2		
Huntington County.....	Mar. 1-31.....	2		
Marshall County.....	Mar. 1-31.....	3		
Marion County.....	Mar. 1-31.....	14		
Miami County.....	Mar. 1-31.....	6		
Montgomery County.....	Mar. 1-31.....	2		
Noble County.....	Mar. 1-31.....	1		
St. Joseph County.....	Mar. 1-31.....	2		
Tipton County.....	Mar. 1-31.....	13		
Vigo County.....	Mar. 1-31.....	2		
Warrick County.....	Mar. 1-31.....	8		
Wells County.....	Mar. 1-31.....	1		
<b>Louisiana:</b>				
Parishes—				
Avoyelles.....	Apr. 1-30.....	15		
East Baton Rouge.....	Apr. 1-30.....	30		
Orleans—				
New Orleans.....	May 15-21.....	36		
St. John the Baptist.....	Apr. 1-30.....	14		
<b>Missouri:</b>				
Kansas City.....	Apr. 27-May 14.....	7		
St. Louis.....	May 14-21.....	2		

## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received During Week Ended June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Nebraska:				
Lincoln.....	Mar. 1-31.....	10		
Tennessee:				
Chattanooga.....	May 15-21.....	9		
Knoxville.....	May 15-21.....	18		
Memphis.....	May 16-22.....	1		
Texas:				
Fort Worth.....	Apr. 1-30.....	8		
Utah:				
Boxelder County.....	Apr. 1-30.....	2		
Cache County.....	Apr. 1-30.....	1		
Carbon County.....	Apr. 1-30.....	3		
Davis County.....	Apr. 1-30.....	7		
Iron County.....	Apr. 1-30.....	11		
Juab County.....	Apr. 1-30.....	11		
Salt Lake County.....	Apr. 1-30.....	25		
Sanpete County.....	Apr. 1-30.....	3		
Summit County.....	Apr. 1-30.....	2		
Uinta County.....	Apr. 1-30.....	1		
Utah County.....	Apr. 1-30.....	4		
Weber County.....	Apr. 1-30.....	9		

## Reports Received from January 1 to May 27, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	Jan. 9-May 15.....	61		
Mobile.....	Jan. 16-May 14.....	38		
Montgomery.....	Dec. 19-May 14.....	481	1	
Total for State.....		580	1	
Arkansas:				
Argenta.....	Jan. 22-Feb. 12.....	11		
Little Rock.....	Jan. 1-Mar. 12.....	92		
Lonoke.....	Jan. 6-20.....	2		
Monticello.....	Year 1909.....	60		
Total for State.....		165		
California:				
Berkeley.....	Dec. 26-Jan. 1.....	1		
Los Angeles.....	Jan. 12-May 7.....	13		
Oakland.....	Dec. 26-Jan. 1.....	1		
Sacramento County.....	Jan. 1-31.....		1	
Sacramento.....	Dec. 12-Mar. 31.....	56		
San Francisco.....	Dec. 19-Apr. 23.....	27		
Total for State.....		98	1	
Colorado, general.....	Mar. 1-Apr. 30.....		3	
Adams County.....	Mar. 1-Apr. 30.....	3		
Archuleta County.....	Apr. 1-30.....	1		
Bent County.....	Feb. 1-28.....	10		
Boulder County.....	Apr. 1-30.....	1		
Boulder.....	Dec. 19-25.....	1		
Chaffee County.....	Jan. 1-31.....	6		
Clear Creek County.....	Mar. 1-31.....	1		
Conejos County.....	Jan. 1-Apr. 30.....	68		
Delta County.....	Mar. 1-Apr. 30.....	2		
Denver County.....	Jan. 1-Apr. 30.....	64		
Fremont County.....	Feb. 1-28.....	14		
Garfield County.....	Jan. 1-31.....	1		
Gunnison County.....	Apr. 1-30.....	8		
Huerfano County.....	Jan. 1-Apr. 30.....	28		
Jefferson County.....	Feb. 1-Apr. 30.....	5		
La Plata County.....	Feb. 1-28.....	4		
Larimer County.....	Jan. 1-31.....	4		
Las Animas County.....	Jan. 1-Apr. 30.....	28		
Logan County.....	Jan. 1-Feb. 28.....	17		
Mesa County.....	Jan. 1-Apr. 30.....	6		
Fruta district.....	Dec. 26-Jan. 1.....	3		



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Colorado—Continued.</b>				
Mineral County.....	Apr. 1-30.....	1		
Montrose County.....	Jan. 1-Apr. 30.....	87		
Morgan County.....	Jan. 1-Apr. 30.....	29		
Otero County.....	Jan. 1-Apr. 30.....	2		
Ouray County.....	Jan. 1-Feb. 28.....	13		
Pitkin County.....	Feb. 1-Mar. 31.....	9		
Prowers County.....	Mar. 1-31.....	9		
Pueblo County.....	Feb. 1-Apr. 30.....	5		
Rio Grande County.....	Feb. 1-Apr. 30.....	4		
Saguache County.....	Apr. 1-30.....	23		
San Miguel County.....	Jan. 1-31.....	1		
Summit County.....	Jan. 1-31.....	1		
Weld County.....	Jan. 1-Apr. 30.....	52		
Total for State.....		511	3	
<b>Delaware:</b>				
Reedy Island quarantine station.....	May 3-11.....	1	1	From s. s. Main from Bremen.
Total for State.....		1	1	
<b>District of Columbia:</b>				
District of Columbia.....	Dec. 19-May 14.....	73		
Total for District.....		73		
<b>Florida:</b>				
Alachua County.....	Jan. 1-Apr. 23.....	4		
Citrus County.....	Mar. 27-Apr. 2.....	2		
Columbia County.....	Feb. 13-19.....	2		
Duval County.....	Jan. 1-May 14.....	32		
Jacksonville.....	Jan. 30-Mar. 12.....	4		
Escambia County.....	Feb. 6-May 7.....	77		
Pensacola.....	Feb. 20-26.....	1		
Franklin County.....	Apr. 24-30.....	2		
Gadsden County.....	Jan. 1-Apr. 30.....	6		
Hillsboro County.....	Jan. 1-31.....	1		
Jackson County.....	Mar. 20-26.....	19		
Jefferson County.....	Mar. 20-26.....	15		
Leon County.....	Feb. 20-Mar. 26.....	24		
Liberty County.....	Jan. 1-31.....	1		
Santa Rosa County.....	Mar. 20-May 14.....	22		
Volusia County.....	Mar. 6-Apr. 30.....	4		
Walton County.....	Jan. 1-May 14.....	13		
Washington County.....	May 1-7.....	7		
Total for State.....		236		
<b>Georgia:</b>				
Columbus.....	Apr. 17-23.....	1	1	
Macon.....	Jan. 1-31.....	51		
Total for State.....		52	1	
<b>Illinois:</b>				
Alexander County.....	Jan. 1-31.....	6		
Bond County.....	Mar. 1-Apr. 30.....	5		
Cass County.....	Feb. 1-Apr. 30.....	22		
Coles County.....	Jan. 1-Mar. 31.....	7		
Cook County—Chicago.....	Dec. 19-Apr. 30.....	7		
Dupage County.....	Feb. 1-28.....			Present.
Edwards County.....	Jan. 1-Mar. 31.....	32		
Effingham County.....	Jan. 1-Feb. 28.....	82		
Fayette County.....	Jan. 1-Apr. 30.....	5		
Franklin County.....	Jan. 1-31.....	6		
Gallatin County.....	Feb. 1-28.....	2		
Henry County.....	Apr. 1-30.....	14		
Iroquois County.....	Feb. 1-Apr. 30.....	3		
Jackson County.....	Jan. 1-Feb. 28.....	3		
Jasper County.....	Feb. 1-28.....			Do.
Kane County.....	Jan. 1-31.....	1		
Livingston County.....	Feb. 1-Mar. 31.....	4		
Macon County.....	Jan. 1-31.....	1		
McLean County.....	Jan. 1-Mar. 31.....	2		
Madison County.....	Feb. 1-Apr. 30.....	28		
Marion County.....	Feb. 1-28.....	2		
Montgomery County.....	Jan. 1-Feb. 28.....	10		
Morgan County.....	Mar. 1-Apr. 30.....	4		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Illinois—Continued.</b>				
Perry County.....	Apr. 1-30.....	2		Present.
Pike County.....	Feb. 1-28.....	2		
Pulaski County.....	Jan. 1-31.....	2		
Richland County.....	Mar. 1-31.....	1		
Sangamon County.....	Jan. 1-31.....	4		
Shelby County.....	Jan. 1-Feb. 28.....	10		Do.
Tasewell County.....	Apr. 1-30.....	1		
Wabash County.....	Jan. 1-31.....			
Wayne County.....	Jan. 1-31.....	5		
White County.....	Apr. 1-30.....	1		
Williamson County.....	Jan. 1-Mar. 31.....	76		
Total for State.....		350		
<b>Indiana:</b>				
Adams County.....	Oct. 1-Feb. 28.....	6		1
Allen County.....	Oct. 1-Apr. 30.....	201		
Boone County.....	Feb. 1-28.....	3		
Carroll County.....	Nov. 1-Jan. 21.....	2		
Clark County.....	Dec. 1-Jan. 31.....	20		
Clinton County.....	Dec. 1-Apr. 30.....	47		1
Crawford County.....	Jan. 1-Feb. 28.....	2		
Daviess County.....	Nov. 1-Apr. 30.....	33		
Decatur County.....	Jan. 1-Feb. 28.....	5		
Dekalb County.....	Dec. 1-Feb. 28.....	4		
Delaware County.....	Oct. 1-Apr. 30.....	22		1
Fountain County.....	Jan. 1-31.....	1		
Fulton County.....	Jan. 1-Feb. 28.....	12		
Gibson County.....	Apr. 1-30.....	3		
Grant County.....	Oct. 1-Apr. 30.....	44		
Greene County.....	Oct. 1-Apr. 30.....	7		1
Hamilton County.....	Jan. 1-31.....	4		
Henry County.....	Jan. 1-31.....	2		
Huntington County.....	Jan. 1-Feb. 28.....	4		
Jefferson County.....	Nov. 1-30.....	1		
Jennings County.....	Jan. 1-Feb. 28.....	10		1
Knox County.....	Oct. 1-Apr. 30.....	9		
Laporte County.....	Dec. 1-31.....	1		
Madison County.....	Jan. 1-Feb. 28.....	4		
Marion County.....	Dec. 1-Feb. 28.....	4		
Marshall County.....	Oct. 1-Apr. 30.....	84		1
Martin County.....	Jan. 1-Apr. 30.....	7		
Miami County.....	Jan. 1-Apr. 30.....	9		
Montgomery County.....	Jan. 1-Apr. 30.....	3		
Noble County.....	Nov. 1-Jan. 31.....	2		
Orange County.....	Apr. 1-30.....	22		1
Randolph County.....	Oct. 1-Feb. 28.....	2		
St. Joseph County.....	Oct. 1-Apr. 30.....	26		
Shelby County.....	Dec. 1-Feb. 28.....	49		
Steuben County.....	Nov. 1-30.....	3		
Tippecanoe County.....	Dec. 1-Feb. 28.....	4		1
Tipton County.....	Apr. 1-30.....	12		
Vanderburg County.....	Oct. 1-31.....	8		
Vermilion County.....	Apr. 1-30.....	8		
Vigo County.....	Feb. 1-Apr. 30.....	5		
Wabash County.....	Feb. 1-Apr. 30.....	8		1
Warren County.....	Nov. 1-30.....	1		
Warrick County.....	Feb. 1-28.....	1		
Washington County.....	Jan. 1-31.....	1		
Wayne County.....	Nov. 1-Jan. 31.....	1		
Total for State.....		707	2	
<b>Iowa, general.</b>				
Audubon County.....	Jan. 1-31.....	19		1
Benton County.....	Mar. 1-Apr. 30.....	2		
Buchanan County.....	Mar. 1-Apr. 30.....	2		
Buena Vista County.....	Feb. 1-Mar. 31.....	9		
Calhoun County.....	Jan. 1-31.....	1		
Carroll County.....	Jan. 1-31.....	10		1
Cass County.....	Mar. 1-31.....	1		
Cedar County.....	Jan. 1-Apr. 30.....	3		
Cherokee County.....	Jan. 1-Mar. 31.....	4		
Clayton County.....	Jan. 1-Apr. 30.....	26		
Clinton County.....	Jan. 1-31.....	1		1
Dallas County.....	Mar. 1-Apr. 30.....	3		
Delaware County.....	Jan. 1-Apr. 30.....	8		
Dickinson County.....	Feb. 1-28.....	4		
Dubuque County.....	Apr. 1-30.....	3		
Floyd County.....	Jan. 1-Mar. 31.....	47		1
	Feb. 1-Apr. 30.....	3		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Iowa—Continued.</b>				
Grundy County.....	Feb. 1-28.....	4		
Guthrie County.....	Apr. 1-30.....	3		
Jasper County.....	Apr. 1-30.....	1		
Jefferson County.....	Mar. 1-31.....	1		
Jones County.....	Jan. 1-Feb. 28.....	3		
Keokuk County.....	Apr. 1-30.....	1		
Kossuth County.....	Apr. 1-30.....	2		
Linn County.....	Jan. 1-Apr. 30.....	9		
Cedar Rapids.....	Dec. 1-31.....	7		
Lyon County.....	Mar. 1-31.....	6		
Madison County.....	Jan. 1-Apr. 30.....	2		
Mahaska County.....	Apr. 1-30.....	7		
Marion County.....	Jan. 1-31.....	2		
Marshall County.....	Jan. 1-Feb. 28.....	5		
Mitchell County.....	Feb. 1-Apr. 30.....	3		
Monroe County.....	Jan. 1-Feb. 28.....	3		
Osceola County.....	Mar. 1-31.....	1		
Pocahontas County.....	Apr. 1-30.....	1		
Polk County.....	Jan. 1-Apr. 30.....	176		
Pottawattamie County.....	Jan. 1-31.....	1		
Poweshiek County.....	Jan. 1-Mar. 31.....	19		
Sac County.....	Apr. 1-30.....	4		
Scott County.....	Feb. 1-Apr. 30.....	7		
Sioux County.....	Jan. 1-Mar. 31.....	17		
Story County.....	Feb. 1-28.....	32		
Winnebago County.....	Feb. 1-28.....	5		
Winneshiek County.....	Apr. 1-30.....	2		
Woodbury County.....	Feb. 1-Apr. 30.....	4		
Sioux City.....	Dec. 1-31.....	2		
Wright County.....	Feb. 1-Mar. 31.....	2		
Total for State.....		478		
<b>Kansas:</b>				
Allen County.....	Jan. 1-Mar. 31.....	7		
Atchison County.....	Feb. 1-Mar. 31.....	10		
Atchison.....	Mar. 1-31.....	4		
Barton County.....	Jan. 1-31.....	1		
Bourbon County.....	Jan. 1-31.....	3		
Butler County.....	Feb. 1-Mar. 31.....	8		
Chautauqua County.....	Mar. 1-31.....	10		
Cherokee County.....	Jan. 1-Mar. 31.....	21		
Clark County.....	Mar. 1-31.....	5		
Clay County.....	Nov. 1-30.....	1		
Cloud County.....	Nov. 1-30.....	1		
Cowley County.....	Nov. 1-30.....	3		
Crawford County.....	Dec. 1-Mar. 31.....	5		
Pittsburg.....	Jan. 1-Mar. 31.....	9		
Decatur County.....	Nov. 1-Mar. 31.....	39		
Dickinson County.....	Jan. 1-Feb. 28.....	11		
Doniphan County.....	Mar. 1-31.....	12		
Douglas County.....	Dec. 1-Mar. 31.....	4		
Ellsworth County.....	Jan. 1-Feb. 28.....	18		
Finney County.....	Jan. 1-31.....	1		
Ford County.....	Jan. 1-Mar. 31.....	9	1	
Franklin County.....	Mar. 1-31.....	3		
Gove County.....	Dec. 1-31.....	3		
Graham County.....	Nov. 1-Feb. 28.....	47		
Gray County.....	Jan. 1-Feb. 28.....	25		
Greenwood County.....	Mar. 1-31.....	9		
Hamilton County.....	Jan. 1-31.....	2		
Harper County.....	Feb. 1-28.....	1		
Harvey County.....	Feb. 1-Mar. 31.....	5		
Jackson County.....	Dec. 1-Mar. 31.....	12		
Jefferson County.....	Feb. 1-28.....	2		
Jewell County.....	Nov. 1-Mar. 31.....	58		
Kearny County.....	Jan. 1-31.....	1		
Kingman County.....	Feb. 1-28.....	11		
Kiowa County.....	Jan. 1-31.....	2		
Labette County.....	Jan. 1-Mar. 31.....	9		
Parsons.....	Mar. 1-31.....	4		
Lane County.....	Nov. 1-30.....	1		
Leavenworth County.....	Dec. 1-Feb. 28.....	2		
Lincoln County.....	Mar. 1-31.....	1		
Logan County.....	Jan. 1-31.....	2		
Lyon County.....	Dec. 1-31.....	1		
McPherson County.....	Dec. 1-Jan. 31.....	3		
Marion County.....	Mar. 1-31.....	1		
Marshall County.....	Dec. 1-31.....	20		
Miami County.....	Jan. 1-31.....	3		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Kansas—Continued.</b>				
Montgomery County	Nov. 1-Mar. 31	180		
Coffeyville	Jan. 1-Feb. 28	36		
Nemaha County	Jan. 1-31	1		
Neosho County	Jan. 1-31	1		
Ness County	Dec. 1-Mar. 31	15		
Norton County	Nov. 1-Feb. 28	40		
Ossage County	Jan. 1-Mar. 31	61		
Osborne County	Mar. 1-31	14		
Phillips County	Jan. 1-Mar. 31	11		
Pottawatomie County	Nov. 1-Mar. 31	36		
Pratt County	Feb. 1-28	1		
Rawlins County	Jan. 1-Mar. 31	25		
Reno County	Nov. 1-Feb. 28	151		
Republic County	Feb. 1-Mar. 28	5		
Rice County	Jan. 1-Feb. 28	8		
Riley County	Jan. 1-Feb. 28	18		
Rooks County	Feb. 1-28	2		
Rush County	Jan. 1-31	5		
Russell County	Jan. 1-Feb. 28	4		
Saline County	Dec. 1-Mar. 31	4		
Scott County	Nov. 1-Feb. 28	19		
Seodgewick County	Dec. 1-Mar. 31	10	1	
Wichita	Jan. 1-31	1		
Shawnee County	Dec. 1-Mar. 31	58		
Topeka	Nov. 1-Mar. 31	72		
Sheridan County	Nov. 1-Jan. 31	8		
Smith County	Jan. 1-Mar. 31	5		
Sumner County	Nov. 1-Mar. 31	14		
Thomas County	Jan. 1-31	1		
Wabaunsee County	Nov. 1-Mar. 31	4		
Wilson County	Nov. 1-Feb. 28	4		
Woodson County	Jan. 1-Feb. 28	28		
Wyandotte County	Dec. 1-Jan. 31	91		
Kansas City	Jan. 1-Mar. 31	76		
Total for State		1,409	2	
<b>Kentucky:</b>				
Hartford	Dec. 12-18	2		
Lexington	Dec. 12-Jan. 29	4		
Paducah	Jan. 5-11	1		
Total for State		7		
<b>Louisiana:</b>				
Caddo Parish—				
Shreveport	Jan. 23-Feb. 28	5	2	
Iberia Parish	Feb. 1-Mar. 31	9		
Natchitoches Parish	Feb. 1-28	6		
Orleans Parish—				
New Orleans	Dec. 26-May 14	220	1	
Morehouse Parish	Feb. 1-28	2		
St. John the Baptist Parish	Feb. 1-Mar. 31	44		
St. Tammany Parish	Mar. 1-31	6		
Tensas Parish	Feb. 1-Mar. 31	17		
West Feliciana Parish	Mar. 1-31	2		
Total for State		311	3	
<b>Maine:</b>				
Aroostook County—				
Caribou	Feb. 1-28	6		
Total for State		6		
<b>Maryland:</b>				
Baltimore	Dec. 26-Jan. 1	1		
Dorchester County	Dec. 3-31	4		
Garrett County	Jan. 8-31	1		
Prince George County—				
Fort Washington	Apr. 1-30	1		
Total for State		7		
<b>Massachusetts:</b>				
Bristol County	Feb. 1-28	6		
Essex County	Jan. 1-Apr. 30	6		
Middlesex County	Jan. 1-Mar. 31	77		
Norfolk County	Mar. 1-31	1		
Lynn County	Jan. 1-31	4		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Massachusetts—Continued.</b>				
Plymouth County.....	Feb. 1-28.....	4		
Suffolk County.....	Jan. 1-Mar. 31.....	4		
Worcester County.....	Jan. 1-Mar. 31.....	23		
Total for State.....		125		
<b>Michigan:</b>				
Alcona County.....	Nov. 1-Mar. 31.....	31		
Alpena County.....	Mar. 1-31.....	1		
Antrim County.....	Nov. 1-Apr. 30.....	40		
Arenac County.....	Nov. 1-Apr. 30.....	146		
Barry County.....	Apr. 1-30.....	2		
Bay County.....	Nov. 1-Apr. 30.....	182		
Benzie County.....	Mar. 1-31.....	1		
Berrien County.....	Jan. 1-Apr. 30.....	32		
Calhoun County.....	Feb. 1-Apr. 30.....	11		
Cass County.....	Feb. 1-Apr. 30.....	5		
Cheboygan County.....	Mar. 1-31.....	7		
Clare County.....	Feb. 1-Apr. 30.....	12		
Delta County.....	Dec. 1-Mar. 31.....	2		
Eaton County.....	Feb. 1-Apr. 30.....	13		
Emmet County.....	Nov. 1-Feb. 28.....	4		
Genesee County.....	Nov. 1-Apr. 30.....	290		
Gladwin County.....	Nov. 1-Apr. 30.....	17		
Gratiot County.....	Nov. 1-Apr. 30.....	4		
Hillsdale County.....	Mar. 1-31.....	1		
Houghton County.....	Nov. 1-Apr. 30.....	61		
Huron County.....	Feb. 1-Apr. 30.....	44		
Ingham County.....	Dec. 1-Apr. 30.....	18		
Ionia County.....	Nov. 1-Apr. 30.....	43		
Iosco County.....	Dec. 1-Apr. 30.....	9	1	
Kent County.....	Dec. 1-Apr. 30.....	14		
Keweenaw County.....	Jan. 1-Mar. 31.....	4		
Lapeer County.....	Nov. 1-Apr. 30.....	36		
Livingston County.....	Nov. 1-Mar. 31.....	32		
Manistee County.....	Feb. 1-Apr. 30.....	11		
Marquette County.....	Nov. 1-30.....	1		
Mason County.....	Nov. 1-30.....	1		
Mecosta County.....	Jan. 1-Apr. 30.....	31		
Midland County.....	Dec. 1-Feb. 28.....	11		
Missaukee County.....	Jan. 1-Apr. 30.....	35		
Montcalm County.....	Nov. 1-Mar. 31.....	14		
Montmorency County.....	Dec. 1-Mar. 31.....	38		
Oakland County.....	Jan. 1-Apr. 30.....	4		
Oceana County.....	Jan. 1-31.....	1		
Ogemaw County.....	Jan. 1-Apr. 30.....	58		
Ontonagon County.....	Nov. 1-Apr. 30.....	21		
Osceola County.....	Dec. 1-Apr. 30.....	27		
Oscoda County.....	Jan. 1-Feb. 28.....	7		
Ostego County.....	Dec. 1-31.....	1		
Ottawa County.....	Apr. 1-30.....	5		
Presque Isle County.....	Dec. 1-Apr. 30.....	10		
Roscommon County.....	Jan. 1-31.....	6		
Saginaw County.....	Dec. 1-Apr. 30.....	146		
St. Clair County.....	Jan. 1-Apr. 30.....	32		
Sanilac County.....	Nov. 1-Apr. 30.....	13		
Shiawassee County.....	Dec. 1-Apr. 30.....	11		
Tuscola County.....	Feb. 1-Apr. 30.....	29		
Wayne County.....	Dec. 1-Apr. 30.....	9		
Total for State.....		1,584	1	
<b>Minnesota, general.</b>				
Anoka County.....	Jan. 1-31.....		1	
Becker County.....	Feb. 1-28.....	5		
Benton County.....	Jan. 4-10.....	3		
Beltrami County.....	Dec. 21-Mar. 20.....	4		
Benton County.....	Dec. 14-20.....	7		
Blue Earth County.....	Dec. 21-Apr. 17.....	2		
Carlton County.....	Apr. 11-May 2.....	3		
Carver County.....	Dec. 7-Jan. 3.....	4		
Chippewa County.....	Jan. 11-17.....	1		
Chisago County.....	Feb. 15-Apr. 24.....	10		
Cook County.....	Jan. 25-31.....	2		
Cottonwood County.....	Apr. 24-30.....	1		
Crow Wing County.....	Mar. 1-20.....	5		
Dakota County.....	Feb. 1-Mar. 20.....	9		
Dodge County.....	Jan. 25-31.....	1		
Faribault County.....	Feb. 8-Apr. 24.....	9		
Fillmore County.....	Apr. 18-30.....	12		
Freeborn County.....	Jan. 18-Mar. 6.....	20		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Minnesota—Continued.</b>				
Goodhue County.....	Dec. 28-Apr. 17...	2		
Hennepin County.....	Dec. 28-Apr. 30...	124		
Houston County.....	Feb. 8-14.....	4		
Hubbard County.....	Mar. 1-6.....	1		
Isanti County.....	Feb. 21-Apr. 17...	2		
Itasca County.....	Dec. 14-Feb. 28...	2		
Kandiyohi County.....	Dec. 7-Apr. 3.....	3		
Kittson County.....	Apr. 4-17.....	5		
Koochiching County.....	Feb. 1-Apr. 24...	7		
Lake County.....	Jan. 18-Apr. 17...	13		
Lac qui Parle County.....	Apr. 24-30.....	1		
Lesueur County.....	Jan. 1-31.....		1	
McLeod County.....	Mar. 7-13.....	1		
Martin County.....	Mar. 7-20.....	2		
Mower County.....	Dec. 28-Apr. 3.....	31		
Nicollet County.....	Feb. 15-Mar. 13...	3		
Nobles County.....	Jan. 18-25.....	1		
Norman County.....	Jan. 18-Mar. 13...	3		
Ohmsted County.....	Feb. 8-Apr. 3.....	2		
Ottertail County.....	Dec. 21-Mar. 6.....	28		
Pipestone County.....	Apr. 18-24.....	2		
Pine County.....	Feb. 22-28.....	1		
Polk County.....	Dec. 7-Mar. 6.....	2		
Ramsey County.....	Jan. 11-Apr. 30...	30		
Red Lake County.....	Dec. 7-Mar. 20...	6		
Renville County.....	Dec. 7-13.....	1		
Rice County.....	Jan. 11-Apr. 30...	2		
Rock County.....	Dec. 7-Feb. 21...	22		
Roseau County.....	Dec. 7-Apr. 10...	42		
St. Louis County.....	Dec. 7-Apr. 17...	51		
Scott County.....	Mar. 21-27.....	1		
Sherburne County.....	Jan. 11-Mar. 27...	2		
Sibley County.....	Dec. 28-Feb. 28...	9		
Stearns County.....	Feb. 1-21.....	4		
Swift County.....	Feb. 8-Apr. 24...	6		
Todd County.....	Dec. 28-Mar. 20...	4		
Wabasha County.....	Dec. 13-Feb. 21...	20		
Wadena County.....	Feb. 1-Apr. 24...	17		
Washington County.....	Apr. 18-24.....	2		
Wilkin County.....	Feb. 15-21.....	1		
Watsonwan County.....	Dec. 28-Jan. 31...	1		
Winona County.....	Apr. 18-24.....	3		
Wright County.....	Dec. 7-Mar. 20...	46		
Yellow Medicine County.....	Feb. 22-28.....	9		
Total for State.....		626	2	
<b>Mississippi:</b>				
Adams County—				
Natchez.....	Dec. 26-Feb. 26...	90	2	
Claiborne County—				
Port Gibson.....	Dec. 19-25.....	1		
Coahoma County.....	Jan. 1-Apr. 1.....	80		
Harrison County—				
Biloxi.....	Jan. 2-Feb. 3.....	5		
Gulfport.....	Jan. 26-Mar. 9...	9		
Marshall County.....	Jan. 30-Apr. 30...	6	1	
Holly Springs.....	Jan. 2-29.....	6		
Wilkinson County—				
Woodville.....	Feb. 27-Mar. 19...	27	1	
Total for State.....		224	4	
<b>Missouri:</b>				
Andrew County.....	Jan. 23-Feb. 26...	5		
Joplin.....	Jan. 16-22.....	1		
Kahoka.....	Apr. 20-26.....	2		
Kansas City.....	Jan. 2-Apr. 30...	59	2	
St. Joseph.....	Jan. 2-Feb. 5.....	7		
St. Louis.....	Dec. 26-May 14...	44		
Springfield.....	Jan. 1-Mar. 31...	6		
Total for State.....		124	2	
<b>Montana:</b>				
Beaverhead County.....	Dec. 1-Apr. 30...	11		
Broadwater County.....	Feb. 1-28.....	2		
Carbon County.....	Jan. 1-Apr. 30...	2		
Cascade County.....	Apr. 1-30.....	3		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Montana—Continued.</b>				
Chouteau County.....	Jan. 1-31.....	6		
Custer County.....	Feb. 1-Apr. 30.....	4		
Dawson County.....	Nov. 1-Apr. 30.....	7		
Deerlodge County.....	Feb. 1-Apr. 30.....	3		
Fergus County.....	Apr. 1-30.....	1		
Flathead County.....	Oct. 1-Nov. 30.....	6		
Gallatin County.....	Dec. 1-Apr. 30.....	4		
Jefferson County.....	Nov. 1-30.....	1		
Lewis and Clark County.....	Oct. 1-Apr. 30.....	34		
Madison County.....	Jan. 1-Feb. 28.....	2		
Meagher County.....	Feb. 1-Apr. 30.....	4		
Missoula County.....	Oct. 1-Apr. 30.....	80		
Park County.....	Nov. 1-Apr. 30.....	15		
Powell County.....	Nov. 1-Mar. 31.....	4		
Ravalli County.....	Nov. 1-Mar. 31.....	7		
Rosebud County.....	Apr. 1-30.....	1		
Sanders County.....	Jan. 1-Mar. 31.....	8		
Silverbow County.....	Oct. 1-Apr. 30.....	206		
Butte.....	Dec. 19-Apr. 30.....	84		
Yellowstone County.....	Jan. 1-31.....	2		
Total for State.....		497		
<b>Nebraska:</b>				
Lincoln.....	Jan. 1-Feb. 28.....	5		
South Omaha.....	Dec. 5-11.....	3		
Total for State.....		8		
<b>New Hampshire (entire State)...</b>				
	Jan. 1-Feb. 28.....	7		
<b>New Jersey:</b>				
Bergen County.....	Feb. 1-28.....	1		
Hudson County.....	Mar. 1-31.....	1		
Passaic County.....	Jan. 1-31.....	1		
Trenton.....	Jan. 30-Feb. 5.....	1		
Total for State.....		4		
<b>New York, general.....</b>				
	Sept. 1-Nov. 30.....	33	1	
Allegany County.....	Mar. 1-31.....	1		
Cattaraugus County.....	Dec. 1-31.....	1		
Cayuga County.....	Dec. 1-31.....	1		
Chautauqua County.....	Mar. 1-31.....	1		
Cortland County.....	Feb. 1-Mar. 28.....	1		
Erie County.....	Dec. 1-31.....	17		
Buffalo.....	Feb. 1-28.....	1	1	
Tonawanda, township.....	Mar. 1-31.....	1		
Tonawanda, city.....	Feb. 1-Mar. 31.....	23		
Herkimer County.....	Feb. 1-Mar. 31.....	24		
Jefferson County.....	Dec. 1-Mar. 31.....	9		
Lewis County.....	Dec. 1-Mar. 31.....	13		
Nassau County.....	Mar. 1-31.....	1		
Niagara County.....	Dec. 1-Jan. 31.....	40		
North Tonawanda.....	Feb. 1-Mar. 31.....	33		
Northfield.....	Mar. 1-31.....	1		
Oneida County.....	Dec. 1-Jan. 31.....	2		
St. Lawrence County.....	Jan. 1-Mar. 31.....	21		
Ulster County.....	Jan. 1-31.....	2		
Westchester County.....	Jan. 1-31.....	1		
Total for State.....		227	2	
<b>North Carolina:</b>				
Alamance County.....	Jan. 1-Feb. 28.....	86		
Beaufort County.....	Jan. 1-Feb. 28.....	11		
Bertie County.....	Jan. 1-31.....	6		
Haden County.....	Nov. 1-Jan. 31.....	21		
Burke County.....	Jan. 1-31.....	20		
Cabarrus County.....	Jan. 1-Feb. 28.....	15		
Caldwell County.....	Jan. 1-Feb. 28.....	31		
Carteret County.....	Jan. 1-Feb. 28.....	3		
Catawba County.....	Oct. 1-Feb. 28.....	62		
Chatham County.....	Jan. 1-31.....	2		
Chowan County.....	Oct. 1-Feb. 28.....	17		
Cleveland County.....	Oct. 1-Feb. 28.....	4		
Craven County.....	Nov. 1-Feb. 28.....	10		
Currituck County.....	Oct. 1-Feb. 28.....	5		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>North Carolina—Continued.</b>				
Davidson County.....	Oct. 1–Feb. 28.....	50		
Davie County.....	Jan. 1–Feb. 28.....	29		
Duplin County.....	Nov. 1–Feb. 28.....	24		
Durham County.....	Jan. 1–31.....	3		
Edgecombe County.....	Jan. 1–Feb. 28.....	24		
Forsyth County.....	Oct. 1–Feb. 28.....	101		
Franklin County.....	Oct. 1–Feb. 28.....	185		
Gaston County.....	Nov. 1–Feb. 28.....	26		
Greene County.....	Nov. 1–Feb. 28.....	50		
Guilford County.....	Nov. 1–Feb. 28.....	112		
Iredell County.....	Jan. 1–Feb. 28.....	5		
Johnston County.....	Nov. 1–Jan. 31.....	23		
Jones County.....	Oct. 1–Nov. 30.....	12		
Lee County.....	Feb. 1–28.....	3		
Lenoir County.....	Jan. 1–Feb. 28.....	37		
Lincoln County.....	Jan. 1–Feb. 28.....	8		
McDowell County.....	Nov. 1–Feb. 28.....	75		
Mecklenburg County.....	Nov. 1–Feb. 28.....	102	1	
Nash County.....	Jan. 1–Feb. 28.....	125		Nov. 1–30, many cases.
New Hanover County.....	Feb. 1–28.....	1		
Onslow County.....	Jan. 1–Feb. 28.....	7		
Orange County.....	Feb. 1–28.....	2		
Pamlico County.....	Feb. 1–28.....	40		Jan. 1–31, present.
Perquimans County.....	Jan. 1–31.....	4		
Pitt County.....	Jan. 1–Feb. 28.....	70		
Randolph County.....	Jan. 1–31.....	2		
Richmond County.....	Feb. 1–28.....	1		
Robeson County.....	Oct. 1–Feb. 28.....	19		
Rockingham County.....	Nov. 1–Feb. 28.....	50		
Rowan County.....	Nov. 1–Feb. 28.....	21		
Rutherford County.....	Nov. 1–Feb. 28.....	61		
Sampson County.....	Jan. 1–Feb. 28.....	3		
Stokes County.....	Jan. 1–Feb. 28.....	160		
Surry County.....	Oct. 1–Feb. 28.....	16		
Union County.....	Oct. 1–Feb. 28.....	66		
Wake County.....	Nov. 1–Feb. 28.....	61		
Washington County.....	Feb. 1–28.....	2		
Wayne County.....	Nov. 1–Feb. 28.....	28		
Wilkes County.....	Jan. 1–Feb. 28.....	39		
Wilson County.....	Nov. 1–Feb. 28.....	224		
Yadkin County.....	Oct. 1–Feb. 28.....	11		
Yancey County.....	Oct. 1–Feb. 28.....	35		
Total for State.....		2,210	1	
<b>North Dakota:</b>				
Barnes County.....	Mar. 1–31.....	2		
Billings County.....	Jan. 1–Mar. 31.....	15	1	
Bottineau County.....	Oct. 1–Apr. 30.....	3		
Bowman County.....	Mar. 1–31.....	5		
Cass County.....	Dec. 1–Mar. 31.....	8		
Grand Forks County.....	Jan. 1–Apr. 30.....	5		
Griggs County.....	Mar. 1–Apr. 30.....	5		
McLean County.....	Dec. 1–Jan. 31.....	4		
Nelson County.....	Feb. 1–Mar. 31.....	16		
Steele County.....	Feb. 1–Apr. 30.....	10		
Stutsman County.....	Apr. 1–30.....	1		
Walsh County.....	Jan. 1–31.....	95		
Ward County.....	Apr. 1–30.....	4		
Wells County.....	Mar. 1–31.....	23		
Williams County.....	Feb. 1–28.....	6		
Do.....	Mar. 1–31.....	1		
Total for State.....		203	1	
<b>Ohio:</b>				
Allen County.....	Jan. 1–Apr. 30.....	47		
Adams County.....	Jan. 1–31.....	1		
Auglaize County.....	Feb. 1–Apr. 30.....	24		
Belmont County.....	Jan. 1–Feb. 28.....	7		
Brown County.....	Jan. 1–Feb. 28.....	19		
Clark County.....	Mar. 1–31.....	1		
Clermont County.....	Jan. 1–31.....	1		
Clinton County.....	Apr. 1–30.....	13		
Cuyahoga County—				
Cleveland.....	Dec. 19–26.....	1		
Darke County.....	Jan. 1–31.....	3		
Greene County.....	Apr. 1–30.....	9		
Franklin County.....	Jan. 1–Apr. 30.....	9		
Hamilton County.....	Jan. 1–Apr. 30.....	6		



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Ohio—Continued.</b>				
Jackson County.....	Jan. 1–Feb. 28.....	36	.....	
Knox County.....	Feb. 1–28.....	1	.....	
Lucas County.....	Apr. 1–30.....	4	.....	
Miami County.....	Jan. 1–Apr. 30.....	3	.....	
Marion County.....	Apr. 1–30.....	1	.....	
Montgomery County.....	Jan. 1–Mar. 31.....	4	.....	
Paulding County.....	Mar. 1–31.....	2	.....	
Pickaway County.....	Apr. 1–30.....	3	.....	
Portage County.....	Feb. 1–Mar. 31.....	30	.....	
Richland County.....	Mar. 1–31.....	1	.....	
Ross County.....	Jan. 1–Mar. 31.....	17	.....	
Scioto County.....	Feb. 1–Mar. 31.....	4	.....	
Seneca County.....	Feb. 1–28.....	3	.....	
Shelby County.....	Jan. 1–Feb. 28.....	7	.....	
Van Wert County.....	Jan. 1–Apr. 30.....	63	.....	
Wayne County.....	Jan. 1–31.....	1	.....	
Williams County—				
Stryker.....	Dec. 19–25.....	1	.....	
Wyandot County.....	Feb. 1–28.....	4	.....	
Total for State.....		326	.....	
<b>Oklahoma, general.</b>				
	Jan. 1–31.....	238	2	
	Feb. 1–28.....	388	28	
Atoka County.....	Mar. 1–31.....	5	1	
Beckham County.....	Mar. 1–31.....	16	.....	
Blaine County.....	Mar. 1–31.....	2	.....	
Bryan County.....	Mar. 1–31.....	6	.....	
Caddo County.....	Mar. 1–31.....	7	.....	
Choctaw County.....	Mar. 1–31.....	8	.....	
Cleveland County.....	Mar. 1–31.....	1	.....	
Comanche County.....	Mar. 1–31.....	29	2	
Custer County.....	Mar. 1–31.....	3	.....	
Grady County.....	Mar. 1–31.....	5	.....	
Grant County.....	Mar. 1–31.....	1	.....	
Greer County.....	Mar. 1–31.....	1	.....	
Harmon County.....	Mar. 1–31.....	2	.....	
Hughes County.....	Mar. 1–31.....	23	.....	
Johnston County.....	Mar. 1–31.....	4	.....	
Kay County.....	Mar. 1–31.....	11	1	
Kingfisher County.....	Mar. 1–31.....	30	.....	
Kiowa County.....	Mar. 1–31.....	2	.....	
Le Flore County.....	Mar. 1–31.....	1	.....	
Lincoln County.....	Mar. 1–31.....	1	.....	
McLain County.....	Mar. 1–31.....	7	.....	
McIntosh County.....	Mar. 1–31.....	12	.....	
Marshall County.....	Mar. 1–31.....	3	.....	
Muscogee County.....	Mar. 1–31.....	1	.....	
Oklahoma County.....	Mar. 1–31.....	17	14	
Ocmulgee County.....	Mar. 1–31.....	1	.....	
Payne County.....	Mar. 1–31.....	10	.....	
Pittsburg County.....	Mar. 1–31.....	10	.....	
Pontotoc County.....	Mar. 1–31.....	12	.....	
Pottawatomie County.....	Mar. 1–31.....	42	2	
Pushmataha County.....	Mar. 1–31.....	6	.....	
Roger Mills County.....	Mar. 1–31.....	3	.....	
Rogers County.....	Mar. 1–31.....	2	.....	
Seminole County.....	Mar. 1–31.....	8	.....	
Sequoyah County.....	Mar. 1–31.....	5	1	
Stephens County.....	Mar. 1–31.....	50	.....	
Texas County.....	Mar. 1–31.....	28	.....	
Tillman County.....	Mar. 1–31.....	5	.....	
Tulsa County.....	Mar. 1–31.....	7	2	
Wagoner County.....	Mar. 1–31.....	3	1	
Total for State.....		1,016	54	
<b>Oregon (entire State).....</b>				
Portland.....	Sept. 1–Feb. 28.....	118	.....	
	Nov. 1–30.....	2	.....	
Total for State.....		120	.....	
<b>Pennsylvania (entire State).....</b>				
	Dec. 1–Mar. 31.....	97	.....	
<b>South Carolina:</b>				
Charleston.....	Apr. 1–30.....	3	.....	
Clover.....	Jan. 23–29.....	3	.....	
Total for State.....		6	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Tennessee:</b>				
Davidson County—				
Nashville.....	Feb. 20-Apr. 23...	7	.....	
Dekalb County.....	Dec. 12-Jan. 28.....	10	.....	
Hamilton County—				
Chattanooga.....	Dec. 26-May 7.....	82	.....	
Knox County—				
Knoxville.....	Jan. 2-May 7.....	76	.....	
Shelby County.....	Nov. 1-Jan. 31.....	28	.....	
Memphis.....	Nov. 1-Apr. 30.....	225	.....	
Washington County.....	Dec. 26-Feb. 5.....	11	.....	
Total for State.....		439	.....	
<b>Texas, general</b>				
Jan. 1-Mar. 31.....		1,818	8	
Amarillo.....	Jan. 16-22.....	16	.....	Present.
Austin.....	Apr. 9-13.....	2	.....	
Atascosa County.....	Jan. 31-Feb. 19.....	6	.....	
Denton County.....	Dec. 26-Feb. 27.....	106	15	
El Paso.....	Nov. 1-Apr. 16.....	16	1	
Fort Fradrie.....	Apr. 1.....	.....	7	Do.
Fort Worth.....	Nov. 1-Mar. 31.....	64	7	
Galveston.....	Feb. 6-Mar. 19.....	5	1	
Hale County.....	Jan. 9-15.....	7	.....	
Houston.....	May 8-14.....	6	.....	
Meridian.....	Apr. 24-30.....	1	1	
Normanna.....	Jan. 1-31.....	12	5	
Rockdale.....	Feb. 13-19.....	3	.....	
San Antonio.....	Dec. 5-Apr. 23.....	34	1	
Taylor.....	Feb. 27-Mar. 19.....	2	.....	
Waco.....	Jan. 1-Apr. 30.....	18	.....	
Walnut Springs.....	Jan. 12-18.....	2	.....	
Wills Point.....	Jan. 1-Mar. 31.....	6	2	
Total for State.....		2,122	41	
<b>Utah:</b>				
Boxelder County.....	Dec. 1-Feb. 28.....	49	.....	
Cache County.....	Dec. 1-Feb. 28.....	22	.....	
Carbon County.....	Dec. 1-Jan. 31.....	6	.....	
Davis County.....	Dec. 1-Feb. 28.....	44	.....	
Juab County.....	Jan. 1-Feb. 28.....	20	.....	
Plute County.....	Dec. 1-31.....	1	.....	
Rich County.....	Jan. 1-Feb. 28.....	2	.....	
Salt Lake County.....	Dec. 1-Feb. 28.....	90	.....	
San Pete County.....	Dec. 1-Feb. 28.....	10	.....	
Sevier County.....	Dec. 1-Feb. 28.....	8	.....	
Summit County.....	Jan. 1-31.....	12	.....	
Tooele County.....	Dec. 1-31.....	1	.....	
Uintah County.....	Dec. 1-Feb. 28.....	30	.....	
Utah County.....	Dec. 1-Feb. 28.....	87	.....	
Wasatch County.....	Dec. 1-Feb. 28.....	10	1	
Weber County.....	Dec. 1-Feb. 28.....	36	.....	
Total for State.....		428	1	
<b>Virginia:</b>				
Brookneal.....	Apr. 10-16.....	1	.....	
Lee County.....	Jan. 1-May 15.....	200	3	
Lynchburg.....	Jan. 30-May 7.....	56	1	
Norfolk.....	Apr. 19-May 3.....	6	.....	Apr. 19-May 3, 2 cases at Craney Island quarantine station from the s. s. Pocahontas.
Petersburg.....	Dec. 26-Jan. 26.....	2	.....	
Portsmouth.....	Jan. 16-29.....	2	.....	
Richmond.....	Dec. 1-May 31.....	8	.....	
Total for State.....		275	4	
<b>Washington:</b>				
Adams County.....	Mar. 1-31.....	6	.....	
Asotin County.....	Jan. 1-Mar. 31.....	2	.....	
Chelan County.....	Feb. 1-Mar. 31.....	2	.....	
Columbia County.....	Feb. 1-28.....	4	.....	
Cowlitz County.....	Feb. 1-28.....	2	.....	
Franklin County.....	Jan. 1-31.....	2	.....	
Island County.....	Mar. 1-31.....	1	.....	
King County.....	Jan. 1-31.....	5	.....	
Seattle.....	Jan. 2-Mar. 31.....	9	.....	
Kitsap County.....	Jan. 1-Mar. 31.....	15	1	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to May 27, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Washington—Continued.</b>				
Klickitat County.....	Jan. 1-31.....	15	.....	
Lewis County.....	Jan. 1-31.....	2	.....	
Lincoln County.....	Jan. 1-31.....	1	.....	
Okanogan County.....	Feb. 1-28.....	2	.....	
Pacific county.....	Mar. 1-31.....	1	.....	
Pierce County.....	Jan. 1-Mar. 31.....	3	.....	
Tacoma.....	Jan. 2-Feb. 28.....	4	.....	
San Juan County.....	Jan. 1-31.....	1	.....	
Skagit County.....	Jan. 1-Feb. 28.....	31	.....	
Spokane County.....	Jan. 1-Mar. 31.....	3	.....	
Spokane.....	Dec. 19-Mar. 31.....	77	.....	
Stevens county.....	Jan. 1-31.....	3	.....	
Walla Walla County.....	Jan. 1-Mar. 31.....	30	.....	
Whatcom County.....	Mar. 1-31.....	9	.....	
Bellingham.....	Feb. 1-Mar. 31.....	5	2	
Wahkiakum County.....	Dec. 1-31.....	8	.....	
Whitman County.....	Jan. 1-Feb. 28.....	21	.....	
Yakima County.....	Jan. 1-Mar. 31.....	8	.....	
Total for State.....		272	3	
<b>West Virginia:</b>				
Berkeley Springs.....	Dec. 27-Feb. 17.....	6	.....	
Wheeling.....	Jan. 30-Feb. 5.....	1	.....	
Total for State.....		7	.....	
<b>Wisconsin:</b>				
Ashland County.....	Mar. 1-Apr. 30.....	13	.....	
Barron County.....	Apr. 1-30.....	1	.....	
Buffalo County.....	Feb. 1-Mar. 31.....	5	.....	
Chippewa County.....	Jan. 1-31.....	3	.....	
Clark County.....	Jan. 1-Mar. 31.....	16	.....	
Crawford County.....	Feb. 1-Mar. 31.....	17	.....	
Dane County.....	Feb. 1-Mar. 31.....	14	.....	
Dodge County.....	Mar. 1-31.....	2	.....	
Douglas County.....	Jan. 1-Apr. 30.....	35	.....	
Superior.....	Dec. 19-Jan. 1.....	6	.....	
Fond du lac County.....	Apr. 1-30.....	1	.....	
Grant County.....	Feb. 1-28.....	1	.....	
Jefferson County.....	Jan. 1-Feb. 28.....	19	.....	
Juneau County.....	Jan. 1-31.....	1	.....	
La Crosse County.....	Jan. 1-Apr. 30.....	21	.....	
La Crosse.....	Dec. 19-Jan. 1.....	2	.....	
Langlade County.....	Jan. 1-Feb. 28.....	3	.....	
Manitowoc County.....	Mar. 1-Apr. 30.....	14	.....	
Marathon County.....	Apr. 1-30.....	3	.....	
Milwaukee County.....	Jan. 1-Apr. 30.....	21	.....	
Milwaukee.....	Dec. 19-Jan. 1.....	2	.....	
Monroe County.....	Apr. 1-30.....	3	.....	
Polk County.....	Apr. 1-30.....	1	.....	
Price County.....	Feb. 1-28.....	1	.....	
Rock County.....	Mar. 1-31.....	2	.....	
Walworth County.....	Feb. 1-28.....	1	.....	
Winnebago County.....	Jan. 1-Mar. 31.....	3	.....	
Total for State.....		211	.....	
Grand total for the United States.....		16,149	130	

## MORBIDITY AND MORTALITY.

## WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.

[For smallpox see special tables.]

Cities.	Week ended—	Esti- mated popula- tion, 1910.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.	May 21	50,814	9		1			1		1					
Ashtabula, Ohio	May 14	16,648	5												
Do.	May 21		7												
Auburn, N. Y.	May 14	34,272	11	2	3			3	2	2					
Baltimore, Md.	May 21	576,023	183	53	25	8		26	1	25	1	28		11	3
Bayonne, N. J.	do.	49,894		4	1			4		5	1	2		1	
Berkeley, Cal.	May 7	* 19,700		1	1	1						9		1	
Do.	May 14		11		1			2						4	
Biddeford, Me.	May 21	17,676	8							2	1		1		
Binghamton, N. Y.	do.	45,855	20	3	1			1				13			
Boston, Mass.	do.	622,970	214	83	35	7	1	63		56	4	199	8	12	1
Boulder, Colo.	May 2		2									3			
Braddock, Pa.	May 21	21,000	3		1	1		5	1	1	3	3		1	
Bridgeport, Conn.	do.	90,913	25	5	2			9	1	3	1	6			
Brockton, Mass.	do.	53,978	9	6	1			2							
Butler, Pa.	do.	12,760	5					2				30		1	1
Cambridge, Mass.	do.	101,872	31	3	5			19		5		12		4	
Cambridge, Ohio	do.	11,733	6									20		4	
Camden, N. J.	do.	89,305						2		4		4		2	
Canton, Ohio	do.	40,037	26												
Carbondale, Pa.	do.	15,698													
Charlotte, N. C.	do.	35,101	7		1	1						1			
Chattanooga, Tenn.	do.	34,554								1					
Chelsea, Mass.	do.	39,862	18	2	1	1		5				5			
Chicago, Ill.	do.	2,224,491	661	119	68	13	3	169	14	113	14	529	6	58	7
Chicopee, Mass.	do.	20,010	11	2								4			
Cincinnati, Ohio	do.	351,212	122	36	22	2	1	9		3	1	145	2		
Clinton, Mass.	do.	12,656	5												
Coffeyville, Kans.	do.		6	1		1		1							
Concord, N. H.	May 14	21,997	13							1					
Columbus, Ga.	May 21	17,893	8										1		
Columbus, Ohio	do.	155,340	65	32	9	2		2		1	2	83		3	1
Covington, Ky.	do.	51,715	10					1				32			
Danville, Ill.	do.	27,387	15	2	2							19			
Dayton, Ohio	do.	108,688	43	3	3			4		1		21		1	1
Duluth, Minn.	May 14	74,520	17	8	1			13	2			14			
Do.	May 21		24					10		2		12			
Dunkirk, N. Y.	do.	18,061	10			1	1	2	1	3		12			
Elizabeth, N. J.	do.	67,470	16					19		5	1	15			
Elmira, N. Y.	do.	35,765	9		1	1		2						1	
Evansville, Ind.	do.	66,948	13	2	4	3						62			
Everett, Mass.	do.	32,931	7	2	1			5				5			
Fall River, Mass.	do.	106,481	33	8	5	2		7				11			
Fort Wayne, Ind.	May 7	54,180	13					2	1	2		20	1	1	
Do.	May 14		15		2			9	3			22			
Do.	May 21		18	35	113	1		9				20	1	1	
Galesburg, Ill.	do.	21,615	3					5		1					
Grand Rapids, Mich.	do.	105,909	28		2			17				17		1	
Harrison, N. J.	do.	14,604	4					3							
Hartford, Conn.	do.	103,808	32	3	3	1		6		4	1	17			
Haverhill, Mass.	do.	38,354	17	8	2	1	1	2		3	1	4		1	
Homestead, Pa.	May 14	17,145	5					1				1			
Do.	May 21		9					2	1			1			
Hyde Park, Mass.	do.	15,522	5					1		1		8			
Kansas City, Mo.	May 1		83	1	5	4	1	26		8	2	39	2	1	
Kansas City, Mo.	May 14		74	3	7	1	1	15		3	8	35	1	4	
Kansas City, Kans.	May 21	85,742	28		4	3		11		2	1	15			
Kalamazoo, Mich.	do.	36,504	6					9				6		2	
Kearny, N. J.	do.	15,765	7					1		1	1	2			
Kingston, N. Y.	do.	26,110	9		1										
Knoxville, Tenn.	do.	37,758	11		1										
Jacksonville, Fla.	do.	40,798	17		3	5	1	1							
Johnstown, Pa.	May 14	46,520	21		1			7				15		3	
Do.	May 21		15	9	1			1		3	1	34	1		
La Crosse, Wis.	do.	29,224	15		3			1		2		1			
Lancaster, Pa.	do.	49,962	9		1			8		1		19			
La Fayette, Ind.	do.	19,801	7									3			1
Lawrence, Mass.	do.	76,042	31	2	2			8		1		16	1		1

\* Estimated population, 1906.

## MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Esti- mated popula- tion, 1909.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Lebanon, Pa.	May 21	20,295	5							1		86			
Lexington, Ky.	do.	30,690	9					15	1	11	1	38		7	
Los Angeles, Cal.	May 14	103,000	95	35	18	2		13	3	1		20		1	
Lowell, Mass.	May 21	95,125	33	2	4			1				2			
Lynchburg, Va.	do.	29,457				1		1				8			
Malden, Mass.	do.	41,535	10	1		1		6	1			29			
Manistee, Mich.	do.	10,788	0					1				1			
Manchester, N. H.	do.	68,561	23	3	3					6	1				
Manitowoc, Wis.	May 14	13,490	3												
Do.	May 21		3					1							
Mansfield, Ohio.	May 14	21,390						1				23		2	
Do.	May 21							1		1		30			
Marinette, Wis.	do.	14,682	3	1	1			1							
Marlboro, Mass.	do.	14,444	4												
Massillon, Ohio.	do.	13,610	0									1			
Medford, Mass.	do.	20,839	5		1	1		2		3	1	2			
Melrose, Mass.	May 14	15,361	4									1			
Memphis, Tenn.	May 22	136,363	54	5	3		1	6							
Milwaukee, Wis.	May 21	332,495	130	15	11	23	11	47	3	20	2	88	2	11	2
Mobile, Ala.	May 7	45,122	24		3	5				1					
Do.	May 14		22		7	4	1								
Moline, Ill.	May 21	23,081	3					5							
Montclair, N. J.	do.	18,296	5					7		1		2			
Montgomery, Ala.	do.	43,927	25	1	4										
Morristown, N. J.	May 14	12,849	7	1				1		2					
Mount Vernon, N. Y.	May 21	27,891	7		2	2		2		2		4			
Nanticoke, Pa.	May 22		3					1		5	1				
Nashville, Tenn.	May 21	106,476	49	4	7	1		5				4			
Nebraska City, Nebr.	do.		2			1						5		7	
Newark, N. J.	do.	308,669		14	13	1	2	37	1	35	4				
New Bedford, Mass.	do.	83,898	25	5	3			1		2		6			
Newburyport, Mass.	do.	14,832	8		1	1						2			
New Orleans, La.	do.	327,662	160	29	27	6	1	22		13	3	153	8		
Newport, Ky.	do.	31,345	12		5										
Newton, Mass.	do.	39,419	16		2			3		2		8			
New York, N. Y.	do.	4,450,963	1,454	589	190	48	3	546	23	475	41	1,247	18	60	8
Niagara Falls, N. Y.	do.	32,012	11			1		4				10			
Norristown, Pa.	do.	24,491	15	1	1							5		4	
North Adams, Mass.	do.	20,510	4							2	1				
Northampton, Mass.	do.	21,008	2					2				24		1	
North Weymouth, Mass.	May 14	11,793	6							3					
Do.	May 21		6									1			
Oakland, Cal.	May 14	73,812	37	2	2	2	2	2		6		3			
Orange, N. J.	May 21	27,669	8	4	1	1		1		2		5			
Palmer, Mass.	do.		1												
Peekskill, N. Y.	May 22	15,473	5		1					1					
Philadelphia, Pa.	May 21	1,491,062	125	51	17	1	55	5	11	10	399	7	60	4	
Pittsfield, Mass.	do.	27,589	7	4				1				3		1	
Plainfield, N. J.	do.	20,947	9	2				1		1					
Pontiac, Mich.	Apr. 2	12,819	11	17		1	2	2		4		6			
Do.	Apr. 9		9	17		2	1	8		10		8			
Do.	Apr. 16		10			1		20		10		10			
Do.	Apr. 23		6	16	1	1		25		15		10			
Do.	Apr. 30		9	16				26	1	14	1	10			
Portsmouth, N. H.	May 21	11,336						1		2					
Portsmouth, Va.	do.	19,225	14							1	4				
Pottstown, Pa.	do.	14,065	8					16				8			
Providence, R. I.	do.	217,065	79	16	12	6		11		9	3	3			
Racine, Wis.	do.	34,840	3					1							
Reading, Pa.	May 23	97,231	30	1	2	6		16		6		59		13	
Rock Island, Ill.	May 21	24,766	11				1	4		1					
Sacramento, Cal.	May 14	31,889	17			1		1				3			
Saginaw, Mich.	do.	51,941	14	1	1	1				1					
St. Louis, Mo.	May 21	686,369	224	38	19	5	1	98	4	33	3	93	4	20	3
San Francisco, Cal.	May 14	342,782	123	31	9	10	2	14		9	2	32	1	20	3
Seattle, Wash.	do.	704,169	8	4	3			18	1	3		56		10	1
Somerville, Mass.	May 21	75,375	21	2				17		5	1	7		1	
South Bend, Ind.	do.	49,321	11		1			3							
South Bethlehem, Pa.	do.	15,886	2					1		1		1			
Spokane, Wash.	May 14	47,006	20	1	1	1		12	1	5		14		3	1

a Population, 1900.

b Estimated population 1906.

## MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Esti- mated popula- tion, 1909,	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Springfield, Mass.....	May 21	82,724	24	2	2	1	1	3	6	13	13	.....	.....	.....	.....
Steelton, Pa.....	do	14,769	4	2	.....	.....	.....	3	7	.....	.....	.....	.....	.....	.....
Superior, Wis.....	do	40,919	7	.....	.....	.....	.....	8	1	1	.....	.....	.....	.....	.....
Tacoma, Wash.....	May 14	37,714	21	.....	.....	1	.....	3	1	.....	.....	4	.....	.....	.....
Taunton, Mass.....	May 21	30,926	21	.....	.....	.....	.....	2	1	.....	.....	8	.....	.....	.....
Terre Haute, Ind.....	do	55,509	18	.....	1	.....	.....	6	.....	1	194	2	8	.....	.....
Titusville, Pa.....	do	8,397	3	.....	1	.....	.....	2	.....	.....	1	.....	.....	.....	.....
Topeka, Kans.....	do	44,757	0	.....	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
Trenton, N. J.....	do	92,878	.....	3	4	.....	22	.....	3	.....	.....	.....	.....	.....	.....
Utica, N. Y.....	do	69,458	16	.....	3	1	.....	1	.....	.....	6	1	.....	.....	.....
Waltham, Mass.....	do	28,522	5	.....	.....	.....	6	.....	1	.....	.....	.....	.....	.....	.....
Wichita, Kans.....	do	39,612	17	2	.....	.....	1	.....	.....	.....	15	.....	.....	.....	.....
Wilkes-Barre, Pa.....	do	64,323	17	6	.....	.....	13	1	3	1	4	.....	2	.....	.....
Wilkinsburg, Pa.....	do	19,999	10	3	2	.....	1	.....	.....	.....	41	.....	1	2	.....
Wilmington, Del.....	do	89,890	.....	.....	3	1	.....	.....	.....	3	.....	.....	.....	1	1
Williamsport, Pa.....	do	30,220	7	.....	1	.....	3	.....	2	.....	31	.....	.....	.....	.....
Woburn, Mass.....	do	14,520	4	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York, Pa.....	do	41,895	.....	5	.....	.....	2	.....	.....	.....	4	.....	.....	4	.....
Zanesville, Ohio.....	do	25,614	2	.....	.....	18	.....	1	.....	.....	.....	.....	.....	.....	.....

\* Estimated population, 1906.

## STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

CALIFORNIA—*Sacramento*.—Month of April, 1910. Population, 55,000. Total number of deaths from all causes, 47, including tuberculosis 4. Cases reported: Typhoid fever 1, measles 20, scarlet fever 1, diphtheria 10, tuberculosis 3.

FLORIDA.—Week ended May 14, 1910. Reports from the state board of health show typhoid fever present in 3 localities with 13 cases, smallpox in 3 counties with 14 cases, diphtheria in 2 localities with 2 cases, and tuberculosis in 4 localities with 9 cases.

IOWA.—Month of March, 1910. Population, 2,192,608. Total number of deaths from all causes, 1,959, including typhoid fever 22, measles 7, scarlet fever 15, diphtheria 16, tuberculosis 114.

Month of April, 1910. Total number of deaths from all causes, 1,639, including typhoid fever 23, measles 13, scarlet fever 7, diphtheria 21, tuberculosis 127.

NEW YORK.—Month of March, 1910. Population, 8,871,720. Total number of deaths from all causes, 14,134, including typhoid fever 92, measles 217, scarlet fever 253, diphtheria 264, tuberculosis 1,625. Cases reported: Typhoid fever 457, smallpox 68, measles 13,770, scarlet fever 5,346, diphtheria 2,489, tuberculosis 4,497.

Auburn.—Month of April, 1910. Population 40,000. Total number of deaths from all causes, 47, including diphtheria 1, tuberculosis 8. Cases reported: Typhoid fever 1 (imported), measles 3, scarlet fever 22, diphtheria 2, tuberculosis (pulmonary) 2.

*Yonkers*.—Month of February, 1910. Population, 74,897. Total number of deaths from all causes, 88, including typhoid fever 1, scarlet fever 3, diphtheria 5, tuberculosis 7. Cases reported: Typhoid fever 23, measles 10, scarlet fever 43, diphtheria 26, tuberculosis (pulmonary) 19.

Month of March, 1910. Total number of deaths from all causes 101, including typhoid fever 2, scarlet fever 1, diphtheria 6, tuberculosis 3. Cases reported: Typhoid fever 9, measles 12, scarlet fever 63, diphtheria 24, tuberculosis (pulmonary) 39.

Month of April, 1910. Total number of deaths from all causes 81, including scarlet fever 5, diphtheria 1, tuberculosis 14. Cases reported: Typhoid fever 3, measles 33, scarlet fever 62, diphtheria 13, tuberculosis (pulmonary) 15.

OREGON.—Month of January, 1910. Population, 505,339. Total number of deaths from all causes 624, including typhoid fever 25, scarlet fever 4, diphtheria 10, tuberculosis 54. Cases reported: Typhoid fever 97, smallpox 36, measles 34, scarlet fever 125, diphtheria 57, tuberculosis 14.

Month of February, 1910. Total number of deaths from all causes 472, including typhoid fever 11, smallpox 1, measles 3, scarlet fever 6, diphtheria 5, tuberculosis 58. Cases reported: Typhoid fever 51, smallpox 29, measles 56, scarlet fever 144, diphtheria 33, tuberculosis 6.

Month of March, 1910. Total number of deaths from all causes 531, including typhoid fever 7, scarlet fever 3, diphtheria 4, tuberculosis 71. Cases reported: Typhoid fever 49, smallpox 29, measles 157, scarlet fever 142, diphtheria 35, tuberculosis 42.

TEXAS—*San Antonio*.—Month of April, 1910. Population, 125,000. Total number of deaths from all causes 197, including typhoid fever 3, tuberculosis 43. Cases reported: Typhoid fever 5, smallpox 2, measles 18, diphtheria 8.

UTAH—*Salt Lake City*.—Month of April, 1910. Population, 85,000. Total number of deaths from all causes 105, including typhoid fever 1, scarlet fever 7, diphtheria 1, tuberculosis 6. Cases reported: Typhoid fever 2, smallpox 19, measles 1, scarlet fever 76, diphtheria 12.

# FOREIGN AND INSULAR.

## ARABIA.

### PLAGUE AT LOHEJA.

The following was received from the Department of State under date of May 25:

A telegram dated May 23 has been received from the consul at Loheja reporting the presence of plague.

## CHINA.

### HONGKONG—Inspection of Vessels.

Passed Assistant Surgeon Foster reports, April 19:  
Quarantine restrictions enforced by and against Hongkong remain as reported April 9, 1910.

#### INSPECTION AND DISINFECTION OF VESSELS.

*Week ended April 16.*

Vessels granted bills of health.....	9
Total members of crews.....	768
Total cabin passengers.....	389
Total steerage passengers.....	412
Members of crews bathed.....	623
Steerage passengers bathed.....	412
Pieces of baggage disinfected.....	1,030
Vessels disinfected to kill rats.....	0
Crews' quarters disinfected:	
With formaldehyde.....	9
With sulphur.....	0

### SHANGHAI—Inspection of Vessels—Smallpox.

Acting Assistant Surgeon Ransom reports, April 22 and 26:

*Week ended April 16.*

Vessels granted bills of health.....	3
Total members of crews.....	193
Total cabin passengers.....	8
Total steerage passengers.....	0
Members of crews bathed and effects disinfected.....	95
Pieces of baggage disinfected.....	196
Pieces of freight disinfected.....	75
Vessels partially disinfected.....	1

The report of the municipal health officer shows 2 new cases of smallpox among foreigners, and among natives 9 deaths from smallpox.

*Week ended April 23.*

Vessels granted bills of health.....	4
Total members of crews.....	487
Total cabin passengers.....	238
Total steerage passengers.....	374
Members of crews bathed and effects disinfected.....	46



Steorage passengers bathed and effects disinfected.....	12
Pieces of baggage disinfected.....	168
Pieces of freight disinfected.....	69
Pieces of freight viséed.....	1, 894

There were 10 deaths from smallpox among natives.

#### **COSTA RICA.]**

##### **LIMON, Fruit Port—Inspection of Vessels.**

Acting Assistant Surgeon Mengis reports:

Week ended May 7. Present estimated population, 10,000.

Bills of health issued as follows:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
1910.					
May 4	Vera.....	New Orleans.....	21		
5	Verona.....	Mobile.....	23		
5	Mount Vernon.....	New Orleans.....	20		
6	Cittá di Milano.....	Porto Rico.....			
6	Parissima.....	New Orleans.....	82	9	19
7	Beatrice.....	Mobile.....			

#### **CUBA.**

##### **CIENFUEGOS—Inspection of Vessels.**

Acting Assistant Surgeon Suarez reports, May 19:

Week ended May 14. Vessels inspected, 5. Bills of health issued, 5. No quarantinable disease reported.

##### **HABANA—Inspection of Vessels.**

Passed Assistant Surgeon de Valin reports, May 24:

Week ended May 21. Bills of health issued, 25. Vessels inspected, 20. Members of crews of outgoing vessels inspected, 896. Passengers of outgoing vessels inspected, 438.

No quarantinable disease reported.

##### **MATANZAS—Inspection of Vessels.**

Acting Assistant Surgeon Nufiez reports, May 23:

Week ended May 21. Bills of health issued to 8 vessels clearing for United States ports.

The department of sanitation reports the inspection of 3,459 houses from May 10 to 20. No quarantinable disease reported.

#### **ECUADOR.**

##### **GUAYAQUIL—Plague and Yellow Fever—Inspection of Vessels.**

Passed Assistant Surgeon Parker reports, May 5:

##### **TWO WEEKS ENDED APRIL 30.**

Disease.	Locality.	Pre-viously reported.	New cases.	Cured.	Died.	Remain-ing.
Plague.....	Guayaquil.....	8	9	13	4	
Do.....	Milagro.....	1		1		
Yellow fever.....	Guayaquil.....	2	13	4	4	7

*Inspection of vessels.*—Week ended April 30. Bills of health issued, 2. Vessels fumigated, 2. Members of crews inspected, 116. Cabin passengers inspected, 41. Steerage passengers inspected, 77. Pieces of baggage fumigated, 78. Pieces of baggage inspected and passed, 44. Certificates for hides issued, 3.

## GUATEMALA.

## PUERTO BARRIOS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Ames reports:

Present estimated population, 350.

Bills of health issued as follows:

## WEEK ENDED APRIL 30.

Date.	Vessel.	Destination.	Number of crew.	Passengers from this port.	Passengers in transit.
Apr. 24	Mount Vernon.....	Mobile.....	20	.....	1
25	Heredia.....	New Orleans, via Belize.....	15	15	11
28	Belize.....	Mobile, via Belize.....	19	1	.....
29	Fjell.....	New Orleans, via Belize.....	22	.....	.....

Temperature of all passengers taken.

## WEEK ENDED MAY 7.

May 2	Cartago.....	New Orleans, via Belize.....	83	19	21
5	Ravn.....	do.....	19	.....	.....
6	Agnella.....	do.....	20	.....	1
7	Director.....	Port in United States.....	64	.....	1

Temperature taken of all on board for New Orleans.

## WEEK ENDED MAY 14.

May 8	John Wilson.....	Mobile.....	17	.....	.....
9	Parismina.....	New Orleans, via Belize.....	82	26	12
11	Kilsyth.....	New York, via Cuba.....	22	.....	.....
12	Belize.....	Mobile.....	17	.....	.....
13	Fjell.....	New Orleans, via Belize.....	20	2	.....

Temperature of all taken on day of sailing.

## HAWAII.

The last case of human plague at Honolulu occurred July 17, 1907. The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 13, 1910.

At Hilo the last case of human plague occurred March 23, 1910. The last plague-infected rat was found at Piihuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, May 9:

## HONOLULU—Plague-prevention Work.

*Week ended May 7, 1910.*

Total rats taken.....	873
Trapped.....	873
Found dead.....	0
Examined bacteriologically.....	756
Plague rats.....	0

## Classification of rats trapped:

<i>Mus alexandrinus</i> .....	128
<i>Mus musculus</i> .....	358
<i>Mus norvegicus</i> .....	108
<i>Mus rattus</i> .....	279
Average number of traps set daily.....	1, 738

Smallpox on Steamship *Mongolia*.

Doctor Ramus reported, May 7:

The steamship *Mongolia* arrived at Honolulu May 7 with a history of two cases of smallpox which occurred on board during the voyage. One of the cases developed after leaving Hongkong and was taken off at Nagasaki; the other case developed between Kobe and Yokohama. Disinfection was performed at Nagasaki and Yokohama, and all contacts were vaccinated.

On arrival at Honolulu the steerage passengers for the Territory of Hawaii and the patients were taken to the quarantine station, and the usual measures were carried out.

## HONDURAS.

## CEIBA, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Carter reports:

Present estimated population, 6,000. Mosquitoes are fairly numerous, chiefly *Anopheles*. *Stegomyia* are present.

Bills of health issued as follows:

## WEEK ENDED APRIL 26.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
Apr. 21	Orleanian.....	New Orleans.....	24	3	.....
22	Rosina.....	do.....	30	2	.....
24	Colombia.....	Mobile.....	18	.....	.....
25	Utstein.....	New Orleans.....	16	.....	.....
26	Grib.....	do.....	21	2	.....

Temperatures on Rosina, Orleanian, and Colombia taken.

## WEEK ENDED MAY 3.

Apr. 29	Joseph Vaccaro.....	New Orleans.....	30	.....	.....
29	Tubal Cane.....	Tampa.....	9	.....	.....
30	Bodo.....	Mobile.....	17	.....	.....
May 3	Senator.....	New Orleans.....	19	.....	.....

## WEEK ENDED MAY 10.

May 4	Orleanian.....	New Orleans.....	36	1	.....
6	Rosina.....	do.....	31	8	.....
7	Colombia.....	Mobile.....	18	.....	.....
9	Grib.....	New Orleans.....	16	.....	.....
9	Utstein.....	do.....	20	.....	.....

Mosquitoes are very numerous. *Anopheles* are plentiful and *Stegomyia* present in considerable numbers. Tanks are unscreened or ineffectually screened. Cesspools are not oiled. No quarantinable diseases present.

**PUERTO CORTEZ, Fruit Port—Inspection of Vessels.**

Acting Assistant Surgeon Stowe reports:  
Population, 2,500. Few mosquitoes present.  
Bills of health issued as follows:

WEEK ENDED APRIL 26.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
Apr. 20	Agnella.....	.....	20	.....	.....
21	Viator.....	.....	17	5	.....
22	Hiram.....	.....	14	1	.....
26	Hispania.....	.....	21	.....	.....

WEEK ENDED MAY 3.

Apr. 27	Mercator.....	.....	17	2	.....
28	Fjell.....	.....	19	2	.....
29	Viking.....	.....	22	.....	.....
May 2	Harald.....	.....	20	.....	.....

**INDIA.****CALCUTTA—Cholera, Plague, and Smallpox.**

Acting Assistant Surgeon Allan reports, April 21 and 27:

Week ended April 9. At Calcutta there were 76 deaths from cholera, 74 from plague, and 4 from smallpox; in all Bengal, 2,547 cases of plague with 2,379 deaths; in all India, 27,311 cases of plague with 23,988 deaths.

Week ended April 16. Bills of health issued to steamships *Moltkefels* for Boston and *Winnebago* for San Francisco. These vessels carried an aggregate of 107 in crews. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and effects of Asiatics disinfected.

**ITALY.****NAPLES—Examination of Emigrants—Smallpox and Typhus Fever.**

Passed Assistant Surgeon Foster reports, May 15:

*Vessels inspected at Naples and Palermo week ended May 7.*

**NAPLES.**

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
May 2	America.....	New York.....	1,689	120	1,650
2	Principe di Piemonte.....	do.....	588	60	880
4	Germania.....	do.....	569	59	720
4	San Giovanni.....	do.....	.....	.....	.....
6	Barbarossa.....	do.....	946	80	1,450
	Total.....	.....	3,792	319	4,700

**PALERMO.**

May 3	Principe di Piemonte.....	New York.....	357	500	300
5	Germania.....	do.....	301	400	200
7	Barbarossa.....	do.....	268	400	100
	Total.....	.....	926	1,300	600

*Rejections recommended.*

## NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
May 2	America.....	30	5	15	.....	3	53
2	Principe di Piemonte.....	18	1	6	.....	5	30
4	Germania.....	7	3	5	1	2	18
4	San Giovanni.....	.....	.....	.....	.....	.....	.....
6	Barbarossa.....	19	5	14	.....	5	43
	Total.....	74	14	40	1	15	144

## PALERMO.

May 3	Principe di Piemonte.....	15	.....	20	.....	3	38
5	Germania.....	13	.....	15	.....	4	32
7	Barbarossa.....	16	.....	8	.....	.....	24
	Total.....	44	.....	43	.....	7	94

*Smallpox and typhus fever.*—During the week ended May 8, 8 cases of smallpox and 2 cases of typhus fever were reported at the health office of the city of Naples.

## JAPAN.

## KOBE—Inspection of Vessels—Plague at Osaka.

Acting Assistant Surgeon Moore reports, April 27:

Week ended April 23. Supplemental bill of health issued to 1 steamship and original bill of health to 1 steamship. Members of crews inspected, 137; steerage passengers, 28; members of crews bathed 74; steerage passengers, 28; effects disinfected; pieces of baggage steamed 149; bedding, 56. Manifests viséed for 10,769 pieces of freight amounting to 1,060 tons. During the week 23 cases of human hair and 7 cases of household goods were disinfected. One vessel was disinfected to kill vermin.

Emigrants were inspected and passed as follows: Per steamship *Kamakura Maru* for Seattle, 14. The emigrants passed, together with 14 intending passengers to Victoria, were inspected and bathed and their effects were disinfected with steam. All emigrants were 7 days in detention at Ono quarantine station.

From April 6 to 15, there were 2 cases of plague with 2 deaths at Osaka.

## NAGASAKI—Smallpox on Steamship Mongolia.

Sanitary Inspector Bowie reports, April 28:

The steamship *Mongolia* arrived April 21 with a case of smallpox on board, the patient being a Filipino steerage passenger. The patient was landed and the crew and passengers were bathed and their quarters were disinfected.

## MEXICO.

## PROGRESO—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Harrison reports, May 8 and 14:

Week ended May 7. Two steamships bound, respectively, for Mobile and New York and carrying an aggregate of 151 in crews and 17 passengers were dispatched. The vessel destined for Mobile was fumigated.

Week ended May 14. Vessels dispatched: Steamships *Jacob Bright* for New Orleans and *Magician* for New Orleans via Mexican ports, and schooner *Harry K. Fooks* for Mobile. These vessels carried an aggregate of 74 in crews. The steamship *Jacob Bright* and schooner *Harry K. Fooks* were fumigated.

## VERACRUZ—Sanitary Work.

Acting Assistant Surgeon Goldthwaite forwards the following report under date of May 17:

Work of special committee for prevention of yellow fever, month of April, 1910:

Visits made to—		
Nonimmunes	.....	39,054
Schools	.....	431
Factories	.....	224
Stores	.....	373
Nonimmunes entering city	.....	2,453
Nonimmunes leaving city	.....	2,457
Houses disinfected	.....	33
Deposits of water inspected	.....	7,080
Deposits of water inspected containing larvæ, oiled	.....	2,360
Notices sent to house owners	.....	9
Passengers inspected on trains	.....	2,279
Suspects isolated in hospitals	.....	5
Pools oiled	.....	98

## NICARAGUA.

## BLUEFIELDS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Jumel reports:

Present estimated population, 3,000. *Stegomyia* are present.

Bills of health issued as follows:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Apr. 28	Imperator	21	9	.....	.....
May 1	Livingston	16	3	.....	.....

## WEEK ENDED MAY 10.

May 5	Dictator	21	5	.....	.....
7	Bluefields	21	6	.....	.....

**PANAMA.****BOCAS DEL TORO, Fruit Port—Inspection of Vessels.**

Acting Assistant Surgeon Osterhaut reports:  
Population, 4,954. Bills of health issued as follows:

**WEEK ENDED MAY 4.**

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected
Apr. 28	Juan.....	24			
28	Cartago.....	83	18	63	
30	Preston.....	29			
May 1	Fort Gaines.....	23			
4	Abangarez.....	91	29	28	

**WEEK ENDED MAY 11.**

May 5	Parismina.....	82	31	18	
7	Origen.....	23			
8	Fort Morgan.....	23			
11	Atenas.....	84	31	13	

**PERU.****CALLAO—Inspection of Vessels—Plague in Peru.**

Acting Assistant Surgeon Castro-Gutierrez reports, May 10:

Week ended May 7. Two steamships having an aggregate personnel of 200 and 110 cabin and 122 steerage passengers were dispatched. These vessels were fumigated before departure.

The following information was received from the director de salubridad.

Locality.	Cases Jan. 1.	New.	Recovered.	Died.	Remaining Jan. 31, 1910.
Department of—					
Callao.....		2			2
Libertad.....	12	41	22	14	14
Lambayeque.....	22	54	38	11	5
Lima.....	3	8	4	3	4
Piura.....		7		7	

Locality.	Cases Feb. 1.	New.	Recovered.	Died.	Remaining Feb. 28, 1910.
Department of—					
Arequipa.....		7		3	4
Cajamarca.....		4		1	3
Callao.....	2	2		2	2
Libertad.....	14	25	16	11	11
Lambayeque.....	5	75	60	7	13
Lima.....	4	9	5	3	5
Piura.....		2		1	1

Bills of health show 23 cases of plague with 11 deaths at Iquique, Chile, April 23.

## RUSSIA.

## Cholera, Smallpox, and Typhus Fever—Examination of Emigrants.

Acting Assistant Surgeon De Forest at Libau reports, May 14:

Period from May 2 to 12. Cholera was reported present in the district of Bachmut with 15 cases and 3 deaths, and at Ekaterinaslav with 2 cases and 1 death. At Libau there were 2 cases of smallpox reported May 12, and from March 15 to April 15, 21 cases. Typhus fever was reported at Riga with 55 cases and 11 deaths, May 2 to 12.

The steamship *Birma* sailed from Libau for New York May 10 with 885 passengers and a crew of 93, all of whom had been in Libau under observation for the full five days. One hundred and twenty-five pieces of baggage were disinfected. To May 5, 991 passengers had been examined.

The next steamship leaving Libau for New York will be the *Russia*, sailing May 24.

## ST. LUCIA ISLAND.

## CASTRIES—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Maylie reports, May 9:

Week ended May 7. Vessels inspected, 5; fumigated, 2.

No quarantinable diseases exist.

## VENEZUELA.

## LA GUAIRA—Inspection of Vessels.

Acting Assistant Surgeon Kellogg reports, May 1:

Week ended April 30. Vessels inspected: April 24, steamship *Versailles* for Colon—Crew, 154; passengers in transit, 133; passengers taken on at this port, 3. April 30, steamship *Prins Willem IV* for New York—Crew 40; passengers in transit, 4; passengers taken on at this port, 11.

No quarantinable diseases present at La Guaira or Maiquetia.

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

## Reports Received During Week Ended June 3, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources.]

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India:</b>				
Bombay .....	Apr. 20-26 .....		1	
Calcutta .....	Apr. 3-16 .....		141	
Negapatam .....	Mar. 26-Apr. 1 .....		3	
<b>Java:</b>				
Batavia .....	Apr. 10-16 .....	1	1	
Samarang .....	Apr. 10-16 .....	40	30	
Soerabaya .....	Apr. 10-16 .....	25	15	
<b>Russia:</b>				
Ekaterinislav, govern- ment .....				
Bachmut, district .....	May 2-12 .....	15	3	
Ekaterinislav .....	May 2-12 .....	2	1	



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

Reports Received During Week Ended June 3, 1910.

## YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brasil:				
Manaos.....	Apr. 24-30.....	.....	2	
Para.....	May 1-7.....	7	5	
Ecuador:				
Guayaquil.....	Apr. 16-30.....	13	4	

## PLAGUE.

Arabia:				
Loheja.....	May 17-23.....	.....	.....	Present.
Brasil:				
Rio de Janeiro.....	Apr. 8-24.....	1	1	
Chile:				
Iquique.....	Apr. 10-23.....	19	5	
Santiago.....	Apr. 4.....	1	.....	
Ecuador:				
Guayaquil.....	Apr. 16-30.....	9	4	
Egypt:				
Alexandria.....	Apr. 23-29.....	1	1	
Provinces—				
Assiout.....	Apr. 23-29.....	22	20	
Assouan.....	Apr. 23-29.....	1	1	
Beni Souef.....	Apr. 23-29.....	4	1	
Garbieh.....	Apr. 23-29.....	2	2	
Fayoum.....	Apr. 23-29.....	4	5	
Kena.....	Apr. 23-29.....	23	26	
Minieh.....	Apr. 23-29.....	5	.....	
India:				
Bombay.....	Apr. 23-26.....	.....	203	
Calcutta.....	Apr. 3-16.....	.....	134	
Kurrachee.....	Apr. 17-23.....	68	64	
Rangoon.....	Apr. 10-16.....	.....	39	
Japan:				
Kobe.....	Apr. 1-30.....	1	.....	
Osaka.....	Apr. 6-15.....	2	2	
Peru:				
Arequipa, department.....	Feb. 1-28.....	7	3	
Cajamarca, department.....	Feb. 1-28.....	4	1	
Callao, department.....	Jan. 1-Feb. 28.....	4	2	
Lambayeque, department.....	Jan. 1-Feb. 28.....	129	18	
Libertad, department.....	Jan. 1-Feb. 28.....	66	25	
Lima.....	Jan. 1-Feb. 28.....	17	6	
Piura.....	Jan. 1-Feb. 28.....	9	8	
Turkey:				
Jiddah.....	Apr. 4-17.....	23	22	

## SMALLPOX.

Abyssinia:				
Adis Ababa.....	Apr. 17-23.....	.....	.....	Present.
Algeria:				
Bona.....	Apr. 1-30.....	4	2	
Arabia:				
Mascat.....	Apr. 17-23.....	1	.....	
Argentina:				
Buenos Aires.....	Feb. 1-28.....	70	3	
Rosario.....	Mar. 1-31.....	.....	1	
Brasil:				
Pernambuco.....	Mar. 16-31.....	.....	62	
Rio de Janeiro.....	Apr. 8-24.....	1	.....	
Canada:				
Campbelltown.....	May 10-16.....	.....	1	
Victoria.....	May 7-14.....	1	.....	
China:				
Hongkong.....	Apr. 3-9.....	3	2	
Egypt:				
Cairo.....	Apr. 30-May 6.....	4	3	
France:				
Paris.....	Apr. 24-May 7.....	11	.....	
Germany, general.....	May 1-7.....	1	.....	
Königsberg.....	Apr. 17-23.....	1	.....	

\* From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, May 11, 1910.

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

## Reports Received During Week Ended June 3, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay .....	Apr. 20-26 .....		48	
Calcutta .....	Apr. 3-16 .....		10	
Madras .....	Apr. 16-22 .....		3	
Rangoon .....	Apr. 10-16 .....		26	
Italy, general .....	May 2-8 .....	4		
Genoa .....	Apr. 16-30 .....	3		
Naples .....	May 2-8 .....	8		
Turin .....	Apr. 22-28 .....	2	1	
Japan:				
Kobe .....				Apr. 21-27, 1 case on s. s. Mongolia between Kobe and Yokohama.
Nagasaki .....	Apr. 21 .....	1		On s. s. Mongolia from Hongkong.
Malta .....	Apr. 24-30 .....		1	
Mexico:				
Aguascalientes .....	May 7-14 .....		8	
Mexico .....	Apr. 10-16 .....		1	
Salina Cruz .....	May 10-16 .....	1		
Portugal:				
Lisbon .....	May 1-7 .....	46		
Russia:				
Riga .....	May 1-7 .....	5		
St. Petersburg .....	Apr. 17-23 .....	37	6	
Warsaw .....	Feb. 28-Mar. 5 .....		9	
Spain:				
Barcelona .....	May 3-9 .....		2	
Madrid .....	Apr. 1-30 .....		5	
Seville .....	Apr. 1-30 .....		4	
Valencia .....	May 1-7 .....	1		
Vigo .....	May 1-7 .....		1	
Straits Settlements:				
Singapore .....	Apr. 3-9 .....	5		

## Reports Received from January 1 to May 27, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo .....	Feb. 13-Mar. 12 .....	6		
Germany:				
Heydekrug .....	Nov. 19-Dec. 4 .....	2		
Niedrung .....	Nov. 16-22 .....	1		
India:				
Bombay .....	Nov. 24-Apr. 19 .....		26	
Calcutta .....	Nov. 14-May 2 .....		872	
Madras .....	Jan. 1-Apr. 1 .....		5	
Moulmine .....	Jan. 22-Mar. 12 .....		15	
Negapatam .....	Jan. 30-Mar. 21 .....		41	
Rangoon .....	Nov. 14-Apr. 9 .....		51	
Java:				
Batavia .....	Nov. 14-Mar. 12 .....	389	111	
Samarang .....	Feb. 1-Apr. 6 .....	466	233	
Soerabaya .....	Mar. 1-Apr. 6 .....	157	130	
Norway:				
Friedershalld .....	Dec. 31-Jan. 3 .....	1	1	From a vessel from Riga.
Persia:				
Astara .....	Dec. 1-15 .....	36	22	
Philippine Islands:				
Manila .....	Nov. 7-Mar. 26 .....	136	100	Third quarter, 1909. Cases, 82; deaths, 61.
Provinces .....				Third quarter, 1909. Cases, 3,946; deaths, 2,609.
Albay .....	Nov. 7-20 .....	6	6	
Bataan .....	Nov. 7-Feb. 26 .....	216	156	
Bohol .....	Nov. 7-Feb. 26 .....	50	32	
Bulacan .....	Nov. 7-Mar. 19 .....	33	27	
Camarines .....	Nov. 7-20 .....	5	5	
Capiz .....	Nov. 21-Dec. 18 .....	3	2	Jan. 1-Feb. 12, 50 cases from a coasting vessel.

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

Reports Received from January 1 to May 27, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands—Continued.</b>				
<b>Provinces—Continued.</b>				
Cavite.....	Nov. 7—Mar. 19....	108	80	Nov. 20, 1 case on s. s. Yaptico.
Cebu.....	Nov. 7—Feb. 12....	333	251	
Laguna.....	Dec. 19—25.....	4	4	
Leyte.....	Nov. 21—Jan. 15....	36	32	
Misamis.....	Jan. 16—Feb. 19....	42	40	
Oriental Negros.....	Nov. 7—20.....	10	5	
Pampanga.....	Nov. 7—Apr. 9.....	283	115	
Pangasinan.....	Mar. 13—26.....	2	2	
Rizal.....	Nov. 7—Jan. 22....	11	7	
Tarlac.....	Nov. 7—13.....	9	5	
Russia, general.....	Nov. 21—Jan. 29....	440	203	
Baku, government.....	Nov. 21—Dec. 25....	22	22	
Baku.....	Nov. 21—Jan. 22....	28	18	
Don, territory.....	Nov. 28—Jan. 29....	19	12	
Ekaterinslav, government.....	Nov. 21—Jan. 29....	25	8	
Jaroslav, government.....	Nov. 21—27.....	1	1	
Kaluga.....	Dec. 26—Jan. 1....	1	1	
Kherson.....	Jan. 23—29.....	3	6	
Kostroma, government.....	Nov. 21—27.....	3	4	
Kovna, government.....	Nov. 21—27.....	8	3	
Kursk, government.....	Nov. 21—Dec. 11....	6	6	
Moscow, government—				
Moscow.....	Nov. 29—Jan. 22....	256	115	
Novotscherkask.....	Mar. 18.....	2	2	
Pskov, government.....	Nov. 21—27.....	10	12	
St. Petersburg, government.....	Nov. 21—Dec. 18....	14	12	
St. Petersburg.....	Nov. 21—Jan. 1....	53	12	
Taurida, government.....	Nov. 21—Dec. 25....	66	28	
Vitebsk, government.....	Nov. 21—27.....	2	2	
Siam:				
Bangkok.....	Oct. 28—Mar. 18....	17	17	
Siberia:				
Vladivostok.....	Nov. 16—21.....	1	1	
Straits Settlements:				
Singapore.....	Dec. 19—Jan. 15....	4	4	
Sumatra:				
Palembang.....	Sept. 20—Oct. 20....	936	675	

## YELLOW FEVER.

<b>Brazil:</b>				
Manaos.....	Nov. 21-Apr. 23.....	77		
Para.....	Nov. 28-Apr. 30.....	128	128	
<b>Ecuador:</b>				
Babahoyo.....	Jan. 1-Mar. 31.....	6	2	
Guayaquil.....	Dec. 1-Apr. 15.....	170	64	
<b>Gold Coast:</b>				
Sekondi.....	May 16.....			Present.
<b>Trinidad:</b>				
Port of Spain.....	Apr. 10-12.....	2		
<b>Peru:</b>				
Callao.....	Nov. 2-Dec. 2.....	1	1	From s. s. Loa.
<b>Mexico:</b>				
Yucatan—				
Merida.....	Dec. 20-21.....	1	1	
Santa Cruz de Bravo...	Dec. 20.....	1	1	
<b>Nicaragua:</b>				
Managua.....	Jan. 14-20.....		1	
<b>Panama:</b>				
Canal Zone—				
Ancon.....	Jan. 24.....		1	At Ancon Hospital, from s. s. Barbadian.
Culebra Island.....	Mar. 1-8.....	1	1	At Culebra quarantine station, from s. s. Huallago.
<b>Portugal:</b>				
Lisbon.....	Apr. 3.....			Eight cases and 4 deaths on s. s. Rugia from Manaoas and Para; 4 cases placed in quarantine.
<b>Trinidad:</b>				
Port of Spain.....	Nov. 28-Dec. 4....	1	1	
<b>Venezuela:</b>				
La Guaira.....	Mar. 1-Apr. 16....	6	6	

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

Reports Received from January 1 to May 27, 1910.

## PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Aden.....	Jan. 21-23.....	1	1	From an Austrian mail steamer from Bombay.
Brazil:				
Bahia.....	Nov. 20-Mar. 18....	61	35	
Para.....	Nov. 28-Apr. 23....	14	11	
Pernambuco.....	Oct. 15-Mar. 15....	.....	26	
Rio de Janeiro.....	Nov. 2-Jan. 23....	16	2	
Santos.....	Nov. 1-Dec. 29....	5	3	One case from bark Amazone, Dec. 1. Feb. 2, present.
Chile:				
Antofagasta.....	Mar. 19.....	4	.....	Apr. 2, 4 cases in the lazaretto.
Iquique.....	Jan. 1-Apr. 17....	104	37	
Taltal.....	Jan. 15.....	2	1	
China:				
Amoy.....	Apr. 10-16.....	.....	1	
Hankow.....	Nov. 27-Dec. 7....	20	20	Feb. 1, again present.
Hongkong.....	Nov. 21-27.....	1	1	
Ecuador:				
Babahoyo.....	Dec. 16-Feb. 15....	18	6	
Guayaquil.....	Dec. 1-Apr. 15....	259	100	
Milagro.....	Jan. 1-Mar. 31....	23	9	
Egypt:				
Alexandria.....	Nov. 19-Apr. 22....	10	5	
Port Said.....	Nov. 30-Dec. 22....	2	1	
Provinces—				
Assiout.....	Sept. 29-Apr. 22....	130	46	
Beherach.....	Dec. 8-14.....	1	.....	
Beni Souef.....	Dec. 16-Apr. 22....	35	15	
Fayoum.....	Jan. 20-Apr. 22....	24	19	
Galloobeh.....	Jan. 11-Apr. 22....	15	9	
Garbleh.....	Feb. 2-Mar. 18....	14	11	
Girzeh.....	Dec. 19-Apr. 1....	3	1	
Ghizeh.....	Dec. 19-Jan. 2....	2	2	
Kena.....	Feb. 3-Apr. 22....	50	52	
Menouf.....	Nov. 28-Dec. 15....	17	6	
Minieh.....	Dec. 21-Apr. 22....	59	30	
German East Africa:				
Mpwapwa.....	Sept. 19-Oct. 5....	7	.....	
Hawaii:				
Hilo.....	Mar. 12-22.....	4	4	
Honokaa.....	Mar. 14-15.....	2	2	
India:				
Bombay.....	Dec. 27-Apr. 19....	.....	1,547	
Calcutta.....	Nov. 20-May 2.....	.....	321	
Kurrachee.....	Dec. 19-Apr. 16....	869	844	
Rangoon.....	Nov. 13-Apr. 9....	.....	179	
Bombay Presidency and Sind.....	Nov. 7-Apr. 16....	26,196	18,720	
Madras Presidency.....	Nov. 7-Apr. 16....	1,420	1,006	
Bengal.....	Nov. 7-Apr. 16....	41,360	34,563	
United provinces.....	Nov. 7-Apr. 16....	130,822	121,975	
Punjab.....	Nov. 7-Apr. 16....	104,475	88,666	
Burma.....	Nov. 7-Apr. 16....	5,494	4,850	
Central provinces, including Berar.....	Nov. 7-Apr. 16....	27,317	21,510	
Coorg.....	Nov. 14-27.....	5	1	
Mysore State.....	Nov. 7-Apr. 16....	2,117	1,575	
Hyderabad State.....	Nov. 7-Apr. 16....	547	449	
Central India.....	Nov. 7-Apr. 16....	2,014	1,375	
Rajputana and Ajmer-Merwara.....	Nov. 7-Apr. 16....	24,537	20,990	
Kashmir.....	Nov. 7-Apr. 16....	561	333	
Baluchistan.....	Apr. 10-16.....	16	8	
Grand total.....		366,881	316,021	
Indo-China:				
Saigon.....	Nov. 7-Dec. 25....	5	4	
Japan:				
Formosa.....	Mar. 20-Apr. 9....	2	2	
Kobe.....	Nov. 28-Apr. 9....	27	22	
Osaka.....	Jan. 1-31.....	2	.....	
Shikoku Island.....	Jan. 30-Feb. 5....	1	.....	
Paraguay.....	Dec. 10.....	.....	30	In the northern part. Feb. 21, endemic.

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

## Reports Received from January 1 to May 27, 1910.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Peru:</b>				
Arequipa, department.....	Dec. 10-16.....	1	.....	
Mollendo.....	Dec. 20-Mar. 17.....	14	5	
Callao, department—				
Callao.....	Jan. 17-Feb. 7.....	5	.....	
Lambayeque, department..	Oct. 1-Dec. 31.....	63	22	
Pacasmayo.....	Mar. 19.....	.....	.....	Present.
Libertad, department.....	Nov. 19-Dec. 31.....	42	7	
Lima, department.....	Oct. 22-Dec. 31.....	15	8	
Lima.....	Feb. 11-25.....	1	.....	Feb. 25, one case from s. s. Ammon.
Pisco.....	Feb. 19.....	1	.....	From s. s. Ammon.
<b>Persia:</b>				
Bouchir.....	Mar. 24-Apr. 2.....	2	1	
<b>Mauritius.</b>	Dec. 18-Jan. 27.....	120	70	
<b>Russia:</b>				
Astrakan, government.....	Dec. 5-Feb. 27.....	134	120	
Naourzali-Tehagil.....	Jan. 17-Feb. 2.....	26	26	
Belskulak.....	Dec. 10-16.....	18	16	
Bodal.....	Feb. 14-Mar. 1.....	23	21	
Dshedda.....	Jan. 7.....	1	.....	Present.
Libau.....	Dec. 3-9.....	1	1	
Novala-Kazanka.....	Feb. 20-Mar. 3.....	13	11	
Uralsk, district.....	Nov. 25-Jan. 12.....	260	202	
<b>Siam:</b>				
Bangkok.....	Oct. 28-Mar. 23.....	78	72	
Phrapatom.....	Feb. 15.....	.....	.....	Epidemic.
<b>Straits Settlements:</b>				
Singapore.....	Dec. 25-Jan. 1.....	2	.....	
<b>Trinidad:</b>				
Port of Spain.....	Apr. 20-27.....	3	.....	On plantation 10 miles from city.
<b>Turkey in Asia:</b>				
Bassorah.....	Apr. 27.....	.....	.....	Present.
Beirut.....	Nov. 29-Apr. 9.....	4	1	
Jiddah.....	Jan. 5-Apr. 3.....	65	63	
<b>Venezuela:</b>				
Puerto Cabello.....	Feb. 24.....	2	.....	
<b>Zanzibar</b> .....	Nov. 9-17.....	2	2	

## SMALLPOX.

<b>Abyssinia:</b>				
Adis Ababa.....	Feb. 19-Apr. 9.....	.....	.....	Present.
<b>Arabia:</b>				
Aden.....	Feb. 15-21.....	.....	1	
Maskat.....	Apr. 3-9.....	.....	.....	Do.
<b>Algeria, general.</b> .....	Dec. 1-15.....	22	.....	
Algiers.....	Nov. 1-Jan. 31.....	.....	3	
Bona.....	Dec. 1-Feb. 28.....	12	9	
<b>Argentina:</b>				
Buenos Aires.....	Oct. 1-Jan. 31.....	.....	158	
Rosario.....	Dec. 1-31.....	.....	1	
<b>Austria:</b>				
Bohemia.....	Feb. 20-Apr. 2.....	4	.....	
Galicla.....	Jan. 1-Apr. 30.....	21	.....	
Silesia.....	Apr. 10-16.....	1	.....	
Vienna.....	Jan. 9-29.....	2	.....	
<b>Brazil:</b>				
Bahia.....	Nov. 20-Mar. 25.....	440	296	
Para.....	Jan. 31-Mar. 5.....	1	.....	
Pernambuco.....	Oct. 16-Mar. 15.....	.....	461	
Rio de Janeiro.....	Nov. 2-Feb. 27.....	25	1	
Sao Paulo.....	Nov. 1-21.....	.....	2	
<b>Canada:</b>				
<b>British Columbia—</b>				
Vancouver.....	Jan. 1-Mar. 31.....	7	.....	
Victoria.....	Apr. 24-30.....	1	.....	
<b>Nova Scotia—</b>				
Hallfax.....	Dec. 19-May 14.....	20	.....	
Windsor.....	Dec. 1-Jan. 31.....	40	.....	
<b>Ontario—</b>				
Hamilton.....	Apr. 10-16.....	1	.....	
Port Arthur.....	Mar. 11-19.....	5	.....	
Toronto.....	Jan. 2-May 17.....	11	.....	

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

Reports Received from January 1 to May 27, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Feb. 6-Apr. 9....	8	.....	
Chile:				
Antofagasta.....	Jan. 1.....	.....	.....	Present. Apr. 16, 7 cases in lazaretto.
Quillota.....	Nov. 28-Dec. 4....	.....	.....	Present.
Valparaiso.....	Mar. 26-Apr. 16....	8	.....	Nov. 20-Jan. 1, present.
China:				
Amoy, Kulangsu.....	Nov. 28-Apr. 2....	.....	19	Apr. 16, present.
Canton.....	Dec. 12-Mar. 26....	150	17	
Chang Cheun.....	Dec. 11.....	.....	.....	Present.
Chio Be.....	Dec. 11.....	.....	.....	Do.
Hankow.....	Jan. 2-Apr. 9....	8	3	Dec. 19-Feb. 26, present among natives.
Hongkong.....	Feb. 5-Apr. 2....	18	7	Feb. 19, 1 case from a steamship from Amoy.
Nankin.....	Feb. 20-26.....	.....	1	Mar. 12, present.
Shanghai.....	Nov. 1-Apr. 17....	11	73	Deaths among natives.
Swatow.....	Apr. 6.....	.....	.....	Epidemic. Feb. 19, 1 death from a steamship from Amoy.
Tsingtau.....	Apr. 3-9.....	4	.....	
Cuba:				
Habana.....	Dec. 3-9.....	1	.....	From s. s. La Navarre.
Ecuador:				
Guayaquil.....	Jan. 1-31.....	3	.....	
Egypt, general.....	Nov. 5-Feb. 18....	749	187	
Alexandria.....	Nov. 5-Jan. 21....	20	19	
Cairo.....	Nov. 26-Apr. 29....	39	12	
Port Said.....	Mar. 19-Apr. 22....	3	.....	
France:				
Nantes.....	Jan. 1-Mar. 31....	2	.....	
Paris.....	Dec. 5-Apr. 23....	156	18	
Germany, general.....	Dec. 5-Apr. 30....	177	.....	
Bremen.....	Feb. 27-Apr. 2....	.....	.....	
Königsberg.....	Dec. 12-Jan. 15....	2	2	In vicinity.
Great Britain:				
Bristol.....	Feb. 6-Mar. 26....	4	.....	Mar. 13-26. 2 cases on steamship from Bombay.
Glasgow.....	Apr. 23-29.....	1	.....	
Greenock.....	Feb. 6-12.....	1	.....	
Hull.....	Jan. 16-Apr. 30....	2	1	
Liverpool.....	Dec. 19-Apr. 9....	10	.....	
London.....	Nov. 28-Mar. 5....	21	.....	
Newcastle-on-Tyne.....	Feb. 13-Mar. 5....	3	1	
Nottingham.....	Jan. 16-Apr. 16....	5	1	
Plymouth.....	Nov. 12-18.....	.....	1	
Sheffield.....	Mar. 27-Apr. 9....	5	1	
Southampton.....	Nov. 12-18.....	1	.....	
South Shields.....	Feb. 13-19.....	1	.....	
Greece:				
Athens.....	Nov. 22-Mar. 26....	.....	21	
Hawaii:				
Honolulu.....	Jan. 31-Apr. 15....	5	1	2 cases Jan. 31 from U. S. S. Washington from Yokohama. 1 case Feb. 2 on s. s. Makura. 1 case Apr. 9 on s. s. Manchuria from the Orient. Case Apr. 15 on U. S. S. Albatross from Yokohama.
India:				
Bombay.....	Nov. 24-Apr. 19....	.....	747	
Calcutta.....	Nov. 14-May 2....	.....	22	
Kurrachee.....	Jan. 2-Apr. 16....	22	6	
Madras.....	Dec. 18-Apr. 15....	.....	7	
Rangoon.....	Nov. 20-Apr. 9....	.....	258	
Indo-China:				
Saigon.....	Dec. 7-13.....	1	.....	
Italy, general.....	Nov. 29-May 1....	385	.....	
Genoa.....	Dec. 1-Mar. 15....	20	1	
Milan.....	Jan. 1-16.....	1	.....	
Naples.....	Dec. 6-May 1....	336	54	
Japan:				
Formosa.....	Feb. 6-Apr. 16....	100	3	
Kobe.....	Dec. 12-Apr. 16....	2	1	
Nagasaki.....	Apr. 6.....	1	.....	On s. s. Asia from Hongkong.
Yokohama.....	Mar. 22-Apr. 12....	2	.....	Mar. 22, 1 case on s. s. Ferd. Laeisz from Hamburg. Apr. 12, 1 case from s. s. Asia, from Hongkong, via Nagasaki.

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

## Reports Received from January 1 to May 27, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Java:</b>				
Batavia.....	Dec. 12-Feb. 12...	9	1	
<b>Korea:</b>				
Fusan.....	Jan. 26-Mar. 12...	9	2	
Imyokyo.....	Feb. 26.....			Present.
<b>Liberia:</b>				
Monrovia.....	Nov. 28-Dec. 4....	6		
<b>Malta:</b>				
Valetta.....	Dec. 12-Apr. 16...	4	1	
<b>Manchuria:</b>				
Tie-ling.....	Feb. 19.....			Do
<b>Mexico:</b>				
Acapulco.....	Apr. 17-23.....	1		In vicinity in a R. R. camp.
Aguascalientes.....	Dec. 12-May 7.....		72	
Chihuahua.....	Dec. 13-Mar. 27...	16	9	
Guadalaajara.....	Jan. 29-Apr. 30...		8	
Manzanillo.....	Mar. 1-6.....	5		
Mexico.....	Nov. 14-Apr. 9.....		26	
Monterey.....	Nov. 13-Apr. 10...		4	
Rincon Viejo.....	Mar. 1-31.....			Do.
Santo Domingo.....	Mar. 1-31.....			Do
Vera Cruz.....	Feb. 13-19.....	1		
<b>Newfoundland:</b>				
St. Johns.....	Apr. 3-9.....	1		
<b>New Providence:</b>				
Nassau.....	Apr. 2.....	1		From s. s. Vigilancia.
<b>Netherlands:</b>				
Rotterdam.....	Dec. 5-11.....	7		
<b>Persia:</b>				
Arabistan.....	Dec. 6-31.....			Present.
Bender Gez.....	Feb. 20-Mar. 13...			Do.
Enzeli.....	Jan. 9-Feb. 2.....			Do.
Hamadan.....	Nov. 15-Dec. 31...			Do.
Kasbin.....	Jan. 5-Feb. 3.....			Do.
Kurdistan.....	Dec. 6-31.....			Do.
Laristan.....	Dec. 9-15.....			Do.
Mohammerah.....	Jan. 9-Feb. 2.....			Do.
Sultanabad.....	Nov. 15.....			Do.
Teheran.....	Nov. 1-Dec. 2.....			Do.
<b>Peru:</b>				
Callao.....	Dec. 6-12.....			Do.
<b>Philippine Islands:</b>				
Manila.....	Nov. 14-Apr. 2.....	70		Third quarter, 1909, cases, 5; deaths, 0.
<b>Portugal:</b>				
Lisbon.....	Dec. 5-Apr. 30.....	445		
Porto Rico, general.....	July 1-Dec. 31.....	72	12	
<b>Russia:</b>				
Batoum.....	Dec. 1-31.....	5		
Libau.....	Dec. 6-May 1.....	85	6	
Moscow.....	Nov. 21-Apr. 16...	374	124	
Odessa.....	Nov. 21-Apr. 30...	640	123	
Riga.....	Dec. 5-Apr. 30.....	70		Oct. 1-Feb. 28, 28 deaths.
St. Petersburg.....	Nov. 28-Apr. 16...	908	254	
Saratov.....	Mar. 19-25.....			Epidemic.
Warsaw.....	Oct. 24-Feb. 26...		272	
<b>Siam:</b>				
Bangkok.....	Nov. 28-Mar. 28...	13	12	
<b>Siberia:</b>				
Vladivostok.....	Jan. 15-Feb. 13...	6	2	
<b>Spain:</b>				
Almeria.....	Jan. 1-Mar. 31.....		22	
Barcelona.....	Dec. 14-May 2.....		45	
Cadiz.....	Jan. 1-31.....		1	
Huelva.....	Nov. 1-Mar. 30...		21	
Madrid.....	Dec. 1-Mar. 31.....		65	Report for February not received.
Seville.....	Dec. 1-Mar. 31.....	18		
Tarragona.....	Feb. 20-26.....		1	
Valencia.....	Jan. 9-Apr. 30...	24		
Vigo.....	Jan. 23-Apr. 30...		3	Mar. 5-19, present in vicinity.
<b>Straits Settlements:</b>				
Singapore.....	Jan. 22-Mar. 26...		13	
<b>Tripoli:</b>				
Tripoli.....	Nov. 14-Dec. 25...	242	24	
<b>Turkey:</b>				
Constantinople.....	Jan. 2-Feb. 6.....		2	

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

Reports Received from January 1 to May 27, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia:				
Bagdad.....	Nov. 21-Feb. 26...			Present.
Salonica.....	Jan. 1-31.....		3	
Smyrna.....	Nov. 5-Dec. 31.....		42	
Trebizond.....	Mar. 5.....			Do.
Uruguay:				
Montevideo.....	Oct. 1-Feb. 28.....		124	Feb. 1-28, 99 cases.
Venezuela:				
La Guaira.....	Mar. 1-15.....	1		

## MORTALITY.

## WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
Aberdeen.....	May 7	185,703	49									1	
Agua Calientes.....	May 14	40,000	2					8		1			3
Aix la Chapelle.....	Apr. 30	161,964	54	5								1	2
Amsterdam.....	May 14	569,948	161	27								1	4
Antwerp.....	May 1	326,351	91	9								8	1
Barcelona.....	May 9	591,372	385	20				2		1		5	6
Barmen.....	Apr. 30	164,100	34	6									1
Do.....	May 7		36	4								1	
Barranquilla.....	do	40,000	21	1						3			
Basel.....	do	133,000	8									1	
Batavia.....	Apr. 16	217,630	5			1							
Belfast.....	May 7	391,167	167	26									4
Bergen.....	do	87,749	22	2									1
Berlin.....	Apr. 23	2,128,329	594	94							7	13	5
Birmingham.....	May 14	570,113	138								2		3
Bombay.....	Apr. 26	977,822	831	65	203	1		48		5			4
Bradford.....	May 14	295,865	94	8						1		1	
Bremen.....	May 7	235,648	71	13								3	3
Bristol.....	May 14	382,550	74	7								1	1
Cairo.....	May 6	677,663	585	26				3	7	4		3	20
Calcutta.....	Apr. 9	847,796	545	35	74	76		4					4
Do.....	Apr. 16		469	36	60	65		6				6	
Chemnitz.....	May 7	261,006	81	8						1		2	
Chihuahua.....	May 15	37,000	53	1						1		1	8
Cologne.....	May 7	511,353	144	24						1	1	1	10
Colombo.....	Apr. 16	187,564	74	10						3			
Copenhagen.....	Apr. 30	455,000	129	16							3	1	4
Dresden.....	do	550,800	143	14								1	1
Do.....	May 7	553,900	139	19								5	1
Dundee.....	May 14	170,206	80	7						1		1	31
Edinburgh.....	May 7	360,276	113	20						1		1	6
Erfurt.....	do	109,168	26	4								1	
Flume.....	May 14	50,811	30	7									1
Frankfort on the Main.....	May 7	406,000	95									1	1
Geneva.....	Apr. 30	121,500	34									3	
Ghent.....	May 7	165,475	51	4						1			1
Glasgow.....	May 13	872,021	250								5	1	13
Do.....	May 21		248							3		2	9
Havre.....	May 7	132,430	46	17						1			
Hongkong.....	Apr. 9	336,488						2					
Iquique.....	Apr. 16	38,382		3	1					2			
Do.....	Apr. 23			5	4								
Kingston.....	May 7	48,504								1			
Kobe.....	Apr. 30	387,915	120							1		1	
Konigsberg.....	Apr. 25	244,170	93	10							1	1	1
Do.....	May 7		85	10						2			2



## MORTALITY—Continued.

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.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
La Guaira.....	Apr. 30	10,000	19	7			a 1			1			
Leipzig.....	May 7	590,329	163	16						2	1		
London.....	do.	7,537,196	1,642						1	12	11	59	62
Londonderry.....	do.	43,477	15	2									
Lyons.....	do.	500,000	171	38								2	3
Madras.....	Apr. 22	550,000	351					3					2
Magdeburg.....	Apr. 30	277,400	69	8						2	1		
Manaos.....	do.	52,000	40				2						
Manchester.....	May 7	631,533	257	15					1		2	3	14
Mannheim.....	Apr. 30	194,365	34	4									1
Do.....	May 7		39	6						1			
Mexico.....	Apr. 16	500,000	430	29				1	17	17	2		8
Do.....	Apr. 23		382	20					14	14	1		5
Monterey.....	May 15	100,000	93	7					1	1	1		3
Montreal.....	May 21	530,000	165	22							2	3	3
Nottingham.....	Apr. 30	260,000	68										1
Do.....	May 7		68						2		2	1	1
Nuremberg.....	Apr. 23	323,500	104	11						1	1		10
Do.....	Apr. 30		80	14						1	1		6
Palermo.....	Apr. 16	340,000	174	8					1	3	1	5	2
Do.....	Apr. 23		158	3						1	1	2	
Do.....	Apr. 30		170	8							1	7	
Para.....	May 7	185,000	101	8			5				5		
Paris.....	Apr. 30	2,776,394	1,002	242						5	10	26	8
Do.....	May 7		986	215					5	2	5	30	9
Port Elizabeth.....	Apr. 23	32,959	15	1						1		3	
Do.....	Apr. 30		8									1	
Port Said.....	May 6	53,711	33	2								1	
Rangoon.....	Apr. 16	252,155	213	7	39			26		1			
Rotterdam.....	May 14	420,711	128						1				
St. Petersburg.....	Apr. 23	1,678,000	959	138				6		16	20	9	88
Salina Cruz.....	May 16	4,500	5	1									
Santos.....	Apr. 9	85,000	11	9					1				
Singapore.....	do.	271,060	182	28					1				
Stettin.....	May 7	239,000	75	7						1	2		

a Death from yellow fever in La Guaira occurred April 16.

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES  
(untabulated).

ALGERIA—*Bona*.—Month of April, 1910. Population 42,000. Total number of deaths from all causes 117, including typhoid fever 5, typhus fever 4, smallpox 2, measles 5, scarlet fever 1, tuberculosis 18.

AUSTRALIA—*New South Wales—Newcastle*.—Month of March, 1910. Population 53,450. Total number of deaths from all causes 40, including diphtheria 1.

BRAZIL—*Rio de Janeiro*.—Two weeks ended April 10, 1910. Population 850,000. Total number of deaths from all causes 636, including measles 1, tuberculosis 122.

CANADA—*Vancouver*.—Month of April, 1910. Population 78,900. Total number of deaths from all causes 78, including scarlet fever 1, tuberculosis 11.

FRANCE—*Calais*.—Month of April, 1910. Population 80,000. Total number of deaths from all causes 111, including typhus fever 2, scarlet fever 2, diphtheria 1, tuberculosis 21.

*Cherbourg*.—Month of April, 1910. Population 43,837. Total number of deaths from all causes 80, including typhoid fever 3, tuberculosis 16.

*Roubaix*.—Month of April, 1910. Population 121,115. Total number of deaths from all causes 177, including measles 2, tuberculosis 29.

GREAT BRITAIN.—Week ended April 30, 1910.

*England and Wales*.—The deaths registered in 77 great towns correspond to an annual rate of 13.1 per 1,000 of the population, which is estimated at 16,940,895.

*Ireland*.—The deaths registered in 21 principal town districts correspond to an annual rate of 22 per 1,000 of the aggregate population which is estimated at 1,151,790. The lowest rate was recorded at Sligo, viz, 4.8, and the highest at Wexford, viz, 37.4 per 1,000 of the population.

*Scotland*.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,864,194 correspond to an annual rate of 17.4 per 1,000 of the population. The lowest rate was recorded at Paisley, viz, 11.7, and the highest at Dundee, viz, 32.8. The total number of deaths from all causes was 630, including measles 44, scarlet fever 5, diphtheria 2.

ITALY—*Milan*.—Period from April 17 to 30, 1910. Population, 900,000. Total number of deaths from all causes, 78, including typhoid fever 9, measles 8, scarlet fever 2, diphtheria 2, tuberculosis 55.

MAURITIUS—*Port Louis*.—Month of February, 1910. Population, 373,071. Total number of deaths from all causes, 865, including plague 35, tuberculosis 47.

NEW ZEALAND.—Month of February, 1910.

*Auckland*.—Estimated population, 97,929. Total number of deaths, 74, including typhoid fever 1, tuberculosis 5.

*Christchurch*.—Estimated population, 78,605. Total number of deaths, 44, including tuberculosis 1.

*Dunedin*.—Estimated population, 62,584. Total number of deaths, 48, including tuberculosis, 2.

*Wellington*.—Estimated population, 76,309. Total number of deaths, 67, including scarlet fever 1, diphtheria 1, tuberculosis 7.

RUSSIA—*Riga*.—Month of February, 1910. Population, 355,000. Total number of deaths from all causes, 622, including typhus fever 81, typhoid fever 6, smallpox 2, measles 1, scarlet fever 37, diphtheria 10.

ST. THOMAS.—Three months ended March 31, 1910. Population, 11,012. Total number of deaths from all causes, 549, including typhoid fever 4, tuberculosis (pulmonary) 8.

SOUTH AFRICA—*Johannesburg*.—Four weeks ended April 16, 1910. Population, 180,687. Total number of deaths from all causes, 326, including typhoid fever 21, diphtheria 1, tuberculosis 36.

By authority of the Secretary of Treasury:

WALTER WYMAN,

*Surgeon-General.*

*United States Public Health and Marine-Hospital Service.*