

PUBLIC HEALTH REPORTS.

VOL. XXV.

APRIL 15, 1910.

No. 15.

A NOTE ON SQUIRREL FLEAS AS PLAGUE CARRIERS.

By GEORGE W. MCCOY, Passed Assistant Surgeon, Public Health and Marine-Hospital Service, San Francisco, Cal.

From squirrel to guinea pig.—A California ground squirrel (*Citellus beecheyi*) after having been freed of fleas was inoculated with a culture of *B. pestis* that had been carried for a long time on artificial media. On the fifth day after the inoculation, 89 squirrel fleas (*Ceratophyllus acutus Baker*) were put in the cage with the animal. The squirrel died 4 days later. A few hours after the death of the squirrel 4 guinea pigs were placed in the cage, the body of the squirrel being permitted to remain with them for about half an hour. The body of the squirrel was then removed and subjected to a post-mortem examination and the lesions of subacute plague were found. One of the guinea pigs died on the eighth day and another on the twelfth day. Each animal exhibited the lesions of subacute plague. The remaining guinea pigs were chloroformed on the sixteenth day and found entirely healthy.

In this experiment the possibility of contagion from the contamination of the cage and from the body of the squirrel could not be eliminated; however, the mass of evidence against such modes of infection is so great as to leave practically no doubt that the transmission was by means of the fleas introduced.

From squirrel to squirrel.—A ground squirrel was inoculated with a culture of the plague bacillus derived from a case of plague in man (squirrel origin). Forty-eight hours after the inoculation 100 fleas (*C. acutus*) were placed in the cage with the squirrel. This squirrel died upon the fifth day, and at the autopsy showed the usual lesions of acute plague. Twenty-seven fleas were recovered from the body of the rodent. Two of the fleas were crushed and each showed in smears an abundance of pest-like bacilli. The remaining 25 fleas were placed in a clean cage with a healthy squirrel. This second squirrel died on the tenth day, presenting at autopsy the characteristic lesions of subacute plague. A culture of *B. pestis* was isolated from the liver. This experiment proves conclusively that squirrel fleas may carry plague infection from one squirrel to another, but whether this is the usual mode of conveyance in nature remains to be proven. The fleas used in these experiments were bred on healthy squirrels in the laboratory and had never had an opportunity to become contaminated prior to the experiment.

I am indebted to Mr. M. B. Mitzmain, B. S., laboratory assistant, for the breeding and identification of these fleas and for valuable assistance in conducting the experiments.

CONDEMNATION OF INSANITARY PREMISES IN SAN FRANCISCO, CAL.

By G. M. CONVERSE, Acting Assistant Surgeon, Public Health and Marine-Hospital Service.

In considering the method of presenting cases to the board of health for condemnation, the procedure, the result of orders of the board of health, the number of cases in abeyance under injunction proceedings, and the present status of the latter cases, it is essential to bear in mind the status of San Francisco from the sanitary point of view at the time the United States Public Health and Marine-Hospital Service took charge of the antiplague campaign.

After the conflagration in 1906, which consumed the entire business center and also the most densely inhabited section of the city, hastily constructed, flimsy shacks, erected over basements filled with fire-débris, served for business purposes, and 100,000 homeless persons drifted into the already well-filled unburnt part of the city.

The scavenger service, carried on by private individuals, was completely disorganized and the waste and garbage of a huge community was thrown carelessly about.

Under such favorable conditions rats multiplied rapidly, and six months after the conflagration, when human plague cases appeared and the work for the eradication of plague began, the number of rats was estimated at several millions. With the exception of two outlying sections, rats infected with plague were brought in from all parts of the city.

Out of the confusion of the first few months following the conflagration arose the most unusual conditions of tenancy of land and buildings; as a consequence, such temporary business shacks as those above mentioned, constructed mostly on short lease holds of the land, were of too little value to warrant spending much money in order to place them in a rat-proof condition, and yet of too much value to be summarily torn down. Practically the entire food supply of the city is handled in a section consisting of about 15 square blocks of such shacks; in a period of six months, following a year of constant trapping and poisoning, over 3,000 rats were trapped in this limited territory.

Wood is the cheapest building material on the Pacific coast, and San Francisco, like other Pacific coast cities, uses this material very extensively. Outside of the restricted fire-limit area, buildings for business or dwelling purposes are constructed exclusively of wood. A city so constructed is a huge rat harbor, and wherever foodstuffs are accessible there rats are numerous, and, excepting from systematic trapping and poisoning, are in no risk of destruction.

At the beginning of the work for the eradication of plague there were no state laws nor city ordinances that could be used in enforcing antiplague measures, and yet it was apparent that as owners of property would have to expend money in rat-proofing their premises, adequate laws would be required. Surgeon Rupert Blue, with the support of the board of health, requested the board of supervisors to pass such ordinances as were essential for the successful prosecution of the work. These included an ordinance granting power to the board of health to condemn insanitary premises; also ordinances

requiring the concreting of stables, markets, and the ground area of all new buildings, the sealing of all apertures made for the installation of plumbing, telephone and electric wires, the collection and disposal of garbage, and many others. It was then found that, with the assistance of these ordinances, nearly all cases could be carried to completion by the efforts of the United States public health officers in the field. A small proportion, the refractory cases, were presented to the board of health, from time to time, for condemnation.

The following is the routine procedure employed in obtaining the rat proofing of premises:

In the course of systematic inspection certain premises are found to be in such condition as to harbor rats. The inspector reports on this condition and ascertains the name of the owner or lessee of the property. The latter is then communicated with and requested to be on the premises at a definite time. At this appointment the nature of the nuisance is pointed out to him and a written copy of the requirements furnished and explained. A reasonable time is fixed in which to comply with these requirements. At the end of this time if no beginning has been made a second communication is forwarded urging him to comply with the law and warning him that in case of noncompliance the premises will be taken up for condemnation. At the end of another period of inaction a communication is forwarded to the health officer of the city of San Francisco recommending the premises for condemnation.

This communication states the location of the property, its character, the names of the owner, lessee, tenants, etc., the part to be condemned, and the requirements that will be necessary in order to place the premises in a sanitary condition.

The city health officer, acting on this recommendation, now makes out a formal complaint in accordance with the law governing the procedure of condemnation. The board thereupon sets a date for hearing the case; notice of this hearing is served by a police officer on the responsible parties and a copy also posted on the property.

At the time set for hearing there are present a quorum of the board of health, the health officer, the representative of the United States Public Health and Marine-Hospital Service, and the owners, lessees, occupants, and other persons interested in the premises.

The complaint is read by the health officer. The president of the board calls upon the owner, lessee, agent, or other responsible person, to present any objection to the complaint or any reason why the premises should not be condemned. Following this statement, the representative of the Service is called upon, if necessary, to explain more fully the nature of the nuisance or of the requirements, or to furnish any additional evidence that may be required, etc. To assist the members of the board in reaching a decision a number of photographs of the premises are included in the documents of the case.

If the case be sustained, the board, by formal resolution, declares the premises to be in an insanitary condition and, as such, condemned. This condemnation means that the premises shall be destroyed or that certain alterations shall be made which shall be sufficient to place them in a sanitary condition.

The work to be done usually corresponds with the requirements formulated by the officer of the United States Public Health and Marine-Hospital Service. In many instances a committee of the

board visits the premises in question in order to ascertain personally the nature of the conditions. Almost without exception these committees have concurred with the demands of the Service officers.

One of two things then happens:

1. The responsible party complies with the orders of the board. A report to that effect is forwarded by the Service officer to the board of health, the case called, abated, and closed.

2. If, after a period of 15 days, which is usually extended to one month, the requirements have not been complied with and the responsible party offers no sufficient reasons for an extension of time, the Service officer forwards to the board of health a communication stating these facts and recommending that the premises be vacated according to law.

The owner is again notified to be present at a special meeting of the board and show cause why the premises should not be vacated according to law. The purpose of this hearing is to give the responsible party still another chance to comply with the requirements. Upon his refusal to do so or his nonappearance at the hearing, the board resolves that the premises shall be vacated. The health officer then transmits this order of the board in writing to the chief of police, who enforces the order.

In a number of instances the threatened or actual execution of the order of vacation is arrested by an injunction procured by the owner and restraining the board of health from such action.

The number of cases thus condemned from the beginning of anti-plague work in September, 1907, to January 1, 1910, is 1,127; the number of cases abated by such action is 965; the number of unabated cases to date is 122. Most of these unabated cases depend for their final abatement on a number of conditions, entirely local in their character, and resulting directly from the conditions caused by the great fire. Such conditions are, for instance, the early expiration of leases, and the question of the length of life that will be given by the board of supervisors to that class of temporary shack mentioned at the beginning of this report.

UNITED STATES.

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

PLAGUE-PREVENTION WORK.

Infected Ground Squirrels.

Five infected ground squirrels were found in Oakland Township, Alameda County, Cal., 1 each on March 5, 9, and 16, and 2 on March 17.

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 March 26, 1910. Premises inspected, 750. Houses destroyed, 9. Buildings condemned, 7. Nuisances abated, 84. Poisons placed, 7,200. Rats trapped, 2,247. Rats found dead, 16. Gophers trapped, 1. Moles trapped, 1. Rats identified, 2,263, as follows: *Mus norvegicus*, 1,790; *Mus rattus*, 89; *Mus musculus*, 341; *Mus alexandrinus*, 43. Average number of traps set daily, 7,345. Examined bacteriologically, 1,924 rats, 1 gopher, 1 mole. No plague infection found.

BERKELEY, CAL.

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

Week ended March 26, 1910. Rats trapped, 46. Rats examined bacteriologically, 46. No plague-infected rats found.

OAKLAND, CAL.

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

Week ended March 26, 1910. Rats found dead, 29. Rats trapped, 575. Rats identified, 604, as follows: *Mus norvegicus*, 506; *Mus rattus*, 5; *Mus musculus*, 92; *Mus alexandrinus*, 1. Rats examined bacteriologically, 504. No plague-infected rats found.

ALAMEDA COUNTY (EXCLUSIVE OF THE CITY OF OAKLAND).

Last case of human plague sickened 2 miles southwest of Sunol, September 26, 1909. Last plague-infected rodent found March 17, 1910. To the present time 75 ground squirrels and 1 wood rat have been found infected.

Week ended March 26. Ranches inspected, 5. Ground squirrels shot, 80. Acres covered with poison, 45. Ground squirrels examined bacteriologically, 80. Five plague-infected squirrels found.

The infected squirrels were found in Oakland Township. Three were found respectively on March 5, 9, and 16, and 2 on March 17.

FRESNO COUNTY, CAL.

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

Week ended March 26. Ranches inspected, 38. Ground squirrels shot, 675. Ground squirrels examined bacteriologically, 671. No plague-infected squirrels found.

MERCED COUNTY, CAL.

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

Week ended March 26. Ranches inspected, 8. Ground squirrels shot, 166. Rabbits shot, 9. Examined bacteriologically, 161 squirrels and 9 rabbits. No plague infection found.

MONTEREY COUNTY, CAL.

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

Week ended March 26. Ranches inspected, 28. Ground squirrels shot, 314. Ground squirrels examined bacteriologically, 311. 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 March 26. Ranches inspected, 13. Ground squirrels shot, 110. Ground squirrels examined bacteriologically, 110. No plague-infected squirrels found.

SAN MATEO COUNTY, CAL.

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

Week ended March 26. Ranches inspected, 9. Ground squirrels shot, 150. Ground squirrels examined bacteriologically, 146. No plague-infected squirrels found.

SANTA BARBARA COUNTY, CAL.

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

Week ended March 26. Ranches inspected, 16. Ground squirrels shot, 113. Ground squirrels examined bacteriologically, 111. 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 March 26, 1910. Ranches inspected, 2. Ground squirrels shot, 36. Ground squirrels examined bacteriologically, 36. No plague-infected squirrels found.

TULARE COUNTY, CAL.

There is no record of human or rodent plague in Tulare County. Week ended March 26. Ranches inspected, 8. Ground squirrels shot, 407. Ground squirrels examined bacteriologically, 401. No plague-infected squirrels found.

VENTURA COUNTY, CAL.

There is no record of human or rodent plague in Ventura County. Week ended March 26. Ranches inspected, 10. Ground squirrels shot, 93. Ground squirrels examined bacteriologically, 90. No plague-infected squirrels found.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended April 15, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile.....	Mar. 20-Apr. 2....	10		
Montgomery.....	Mar. 27-Apr. 2....	18		
California:				
Los Angeles.....	Mar. 13-19.....	1		
San Francisco.....	Mar. 20-26.....	3		
District of Columbia.....	Mar. 27-Apr. 2....	8		
Florida:				
Citrus County.....	Mar. 27-Apr. 2....	2		
Duval County.....	Mar. 27-Apr. 2....	3		
Escambia County.....	Mar. 27-Apr. 2....	9		
Santa Rosa County.....	Mar. 27-Apr. 2....	3		
Indiana:				
Adams County.....	Feb. 1-28.....	2		
Allen County.....	Feb. 1-28.....	7		
Boone County.....	Feb. 1-28.....	3		
Clinton County.....	Feb. 1-28.....	17		
Crawford County.....	Feb. 1-28.....	1		
Daviess County.....	Feb. 1-28.....	2		
Decatur County.....	Feb. 1-28.....	2		
Dekalb County.....	Feb. 1-28.....	1		
Fulton County.....	Feb. 1-28.....	8		
Grant County.....	Feb. 1-28.....	7	1	
Huntington County.....	Feb. 1-28.....	3		
Jennings County.....	Feb. 1-28.....	4		
Madison County.....	Feb. 1-28.....	1		
Marion County.....	Feb. 1-28.....	1		
Marshall County.....	Feb. 1-28.....	2		
Miami County.....	Feb. 1-28.....	1		
Randolph County.....	Feb. 1-28.....	1		
Shelby County.....	Feb. 1-28.....	16		
St. Joseph County.....	Feb. 1-28.....	3		
Tippecanoe County.....	Feb. 1-28.....	1		
Vigo County.....	Feb. 1-28.....	1		
Wabash County.....	Feb. 1-28.....	1		
Warrick County.....	Feb. 1-28.....	7		
Kansas:				
Allen County.....	Feb. 1-28.....	2		
Atchison County.....	Feb. 1-28.....	1		
Butler County.....	Feb. 1-28.....	2		
Cherokee County.....	Feb. 1-28.....	8		
Crawford County—				
Pittsburg.....	Feb. 1-28.....	1		
Decatur County.....	Feb. 1-28.....	7		
Dickinson County.....	Feb. 1-28.....	7		
Douglas County.....	Feb. 1-28.....	1		
Ellsworth County.....	Feb. 1-28.....	4		
Ford County.....	Feb. 1-28.....	1	1	
Graham County.....	Feb. 1-28.....	7		
Gray County.....	Feb. 1-28.....	7		
Harper County.....	Feb. 1-28.....	1		
Harvey County.....	Feb. 1-28.....	4		
Jackson County.....	Feb. 1-28.....	4		
Jackson County.....	Feb. 1-28.....	2		
Jefferson County.....	Feb. 1-28.....	11		
Kingman County.....	Feb. 1-28.....	4		
Labette County.....	Feb. 1-28.....	4		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received During Week Ended April 15, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Leavenworth County—				
Leavenworth	Feb. 1-28	1		
Montgomery County	Feb. 1-28	70		
Coffeyville	Feb. 1-28	25		
Ness County	Feb. 1-28	2		
Norton County	Feb. 1-28	2		
Osage County	Feb. 1-28	12		
Phillips County	Feb. 1-28	5		
Pratt County	Feb. 1-28	1		
Reno County	Feb. 1-28	28		
Republic County	Feb. 1-28	2		
Rice County	Feb. 1-28	7		
Riley County	Feb. 1-28	1		
Rooks County	Feb. 1-28	2		
Russell County	Feb. 1-28	3		
Scott County	Feb. 1-28	8		
Shawnee County—				
Topeka	Feb. 1-28	11		
Smith County	Feb. 1-28	2		
Wilson County	Feb. 1-28	1		
Woodson County	Feb. 1-28	3		
Wyandotte County—				
Kansas City	Feb. 1-28	20		
Allen County	Mar. 1-31	4		
Atchison County	Mar. 1-31	9		
Atchison	Mar. 1-31	4		
Butler County	Mar. 1-31	6		
Chatauqua County	Mar. 1-31	10		
Cherokee County	Mar. 1-31	5		
Clark County	Mar. 1-31	5		
Crawford County	Mar. 1-31	1		
Pittsburg	Mar. 1-31	7		
Decatur County	Mar. 1-31	11		
Doniphan County	Mar. 1-31	12		
Douglas County	Mar. 1-31	2		
Ford County	Mar. 1-31	2		
Franklin County	Mar. 1-31	3		
Greenwood County	Mar. 1-31	9		
Harvey County	Mar. 1-31	1		
Jackson County	Mar. 1-31	3		
Jewell County	Mar. 1-31	14		
Labette County—				
Parsons	Mar. 1-31	4		
Lincoln County	Mar. 1-31	1		
Marion County	Mar. 1-31	1		
Montgomery County	Mar. 1-31	1		
Ness County	Mar. 1-31	5		
Osage County	Mar. 1-31	38		
Osborne County	Mar. 1-31	4		
Phillips County	Mar. 1-31	3		
Pottawatomie County	Mar. 1-31	30		
Rawlins County	Mar. 1-31	20		
Republic County	Mar. 1-31	3		
Saline County	Mar. 1-31	3		
Sedgwick County	Mar. 1-31	8		
Shawnee County	Mar. 1-31	46		
Topeka	Mar. 1-31	52		
Smith County	Mar. 1-31	1		
Sumner County	Mar. 1-31	3		
Waubanee County	Mar. 1-31	1		
Wyandotte County—				
Kansas City	Mar. 1-31	17		
Louisiana:				
Parishes—				
Iberia	Mar. 1-31	8		
Orleans—				
New Orleans	Mar. 27-Feb. 2	23		
St. John	Mar. 1-31	38		
St. Tammany	Mar. 1-31	6		
Tensas	Mar. 1-31	4		
West Feliciana	Mar. 1-31	2		
Maryland	Mar. 1-31	None.		
Massachusetts:				
Essex County	Mar. 1-31	1		
Middlesex County	Mar. 1-31	1		
Norfolk County	Mar. 1-31	1		
Suffolk County	Mar. 1-31	1		
Worcester County	Mar. 1-31	1		
New Jersey:				
Hudson County	Mar. 1-31	1		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received During Week Ended April 15, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Ohio:				
Allen County.....	Mar. 1-31.....	11		
Auglaize County.....	Mar. 1-31.....	11		
Clark County.....	Mar. 1-31.....	1		
Hamilton County.....	Mar. 1-31.....	1		
Montgomery County.....	Mar. 1-31.....	1		
Paulding County.....	Mar. 1-31.....	2		
Portage County.....	Mar. 1-31.....	20		
Richland County.....	Mar. 1-31.....	1		
Ross County.....	Mar. 1-31.....	1		
Scioto County.....	Mar. 1-31.....	1		
Van Wert County.....	Mar. 1-31.....	10		
Oregon, general.....	Feb. 1-28.....	29		
Tennessee:				
Chattanooga.....	Mar. 27-Apr. 2.....	4		
Texas:				
Forth Worth.....	Mar. 27-Apr. 2.....	56	2	
San Antonio.....	Mar. 27-Apr. 2.....	2		
Travis County— Fort Prairie.....	Apr. 1.....			Present.
Willis Point.....	Mar. 1-31.....	1		
Virginia:				
Lynchburg.....	Mar. 27-Apr. 2.....	9		

Reports Received from January 1 to April 8, 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-Feb. 12.....	19		
Mobile.....	Jan. 16-Mar. 19.....	9		
Montgomery.....	Dec. 19-Mar. 26.....	423	1	
Total for State.....		451	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-Feb. 12.....	4		
Oakland.....	Dec. 26-Jan. 1.....	1		
Sacramento County.....	Jan. 1-31.....		1	
Sacramento.....	Dec. 12-Feb. 28.....	54		
San Francisco.....	Dec. 19-Mar. 19.....	20		
Total for State.....		80	1	
Colorado:				
Bent County.....	Feb. 1-28.....	10		
Boulder County—				
Boulder.....	Dec. 19-25.....	1		
Chaffee County.....	Jan. 1-31.....	6		
Conejos County.....	Jan. 1-Feb. 28.....	29		
Denver County.....	Jan. 1-Feb. 28.....	18		
Fremont County.....	Feb. 1-28.....	14		
Garfield County.....	Jan. 1-31.....	1		
Huerfano County.....	Jan. 1-Feb. 28.....	12		
Jefferson County.....	Feb. 1-28.....	1		
La Plata County.....	Feb. 1-28.....	4		
Larimer County.....	Jan. 1-31.....	4		
Las Animas County.....	Jan. 1-Feb. 28.....	14		
Logan County.....	Jan. 1-Feb. 28.....	17		
Mesa County.....	Jan. 1-31.....	4		
Fruita district.....	Dec. 26-Jan. 1.....	3		
Montrose County.....	Jan. 1-Feb. 28.....	19		
Morgan County.....	Jan. 1-Feb. 28.....	16		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Colorado—Continued.				
Otero County	Jan. 1-31	1		
Ourray County	Jan. 1-Feb. 28	13		
Pitkin County	Feb. 1-28	5		
Pueblo County	Feb. 1-28	2		
Rio Grande County	Feb. 1-28	1		
San Miguel County	Jan. 1-31	1		
Summit County	Jan. 1-31	1		
Weld County	Jan. 1-Feb. 28	21		
Total for State		218		
District of Columbia	Dec. 19-Mar. 26	28		
Total for District		28		
Florida:				
Alachua County	Jan. 1-Feb. 26	3		
Columbia County	Feb. 13-19	2		
Duval County	Jan. 1-Mar. 26	5		
Jacksonville	Jan. 30-Mar. 12	4		
Escambia County	Feb. 6-Mar. 26	38		
Pensacola	Feb. 20-26	1		
Gadsden County	Jan. 1-31	2		
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. 20-26	3		
Volusia County	Mar. 6-12	1		
Walton County	Jan. 1-31	3		
Total for State		122		
Georgia:				
Macon	Jan. 1-31	51		
Total for State		51		
Illinois:				
Alexander County	Jan. 1-31	6		
Cass County	Feb. 1-28	1		
Coles County	Jan. 1-31	4		
Cook County— Chicago	Dec. 19-Feb. 28	3		
Dupage County	Feb. 1-28			Present.
Edwards County	Jan. 1-Feb. 28	29		
Effingham County	Jan. 1-Feb. 28	82		
Fayette County	Jan. 1-Feb. 28	2		
Franklin County	Jan. 1-31	6		
Gallatin County	Feb. 1-28	2		
Iroquois County	Feb. 1-28	1		
Jackson County	Jan. 1-Feb. 28	3		
Jasper County	Feb. 1-28			Do.
Kane County	Jan. 1-31	1		
Livingston County	Feb. 1-28	3		
Macon County	Jan. 1-31	1		
McLean County	Jan. 1-31	1		
Madison County	Feb. 1-28	1		
Marion County	Feb. 1-28	2		
Montgomery County	Jan. 1-Feb. 28	10		
Pike County	Feb. 1-28	2		
Pulaski County	Jan. 1-31	2		
Sangamon County	Jan. 1-31	4		Do.
Shelby County	Jan. 1-Feb. 28	10		
Wabash County	Jan. 1-31			Do.
Wayne County	Jan. 1-31	5		
Williamson County	Jan. 1-Feb. 28	23		
Total for State		204		
Indiana:				
Adams County	Oct. 1-31	4		
Allen County	Oct. 1-Jan. 31	180	1	
Carroll County	Nov. 1-Jan. 21	2		
Clark County	Dec. 1-Jan. 31	20		
Clinton County	Dec. 1-Jan. 31	28		
Crawford County	Jan. 1-31	1		
Davless County	Nov. 1-Jan. 31	28		
Decatur County	Jan. 1-31	3		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana—Continued.				
Dekalb County.....	Dec. 1-Jan. 31.....	3		
Delaware County.....	Oct. 1-Nov. 30.....	20		
Fountain County.....	Jan. 1-31.....	1		
Fulton County.....	Jan. 1-31.....	4		
Grant County.....	Oct. 1-Jan. 31.....	35		
Greene County.....	Oct. 1-31.....	6		
Hamilton County.....	Jan. 1-31.....	4		
Henry County.....	Jan. 1-31.....	2		
Huntington County.....	Jan. 1-31.....	1		
Jefferson County.....	Nov. 1-30.....	1		
Jennings County.....	Jan. 1-31.....	6		
Knox County.....	Oct. 1-31.....	7		
Laporte County.....	Dec. 1-31.....	1		
Madison County.....	Jan. 1-31.....	3		
Marion County.....	Dec. 1-Jan. 31.....	3		
Marshall County.....	Oct. 1-Jan. 31.....	80		
Martin County.....	Jan. 1-31.....	1		
Miami County.....	Jan. 1-31.....	3		
Montgomery County.....	Jan. 1-31.....	2		
Noble County.....	Nov. 1-Jan. 31.....	2		
Randolph County.....	Oct. 1-31.....	1		
St. Joseph County.....	Oct. 1-Jan. 31.....	21		
Shelby County.....	Dec. 1-Jan. 31.....	33		
Steuben County.....	Nov. 1-30.....	3		
Tippecanoe County.....	Dec. 1-Jan. 31.....	3		
Vanderburg County.....	Oct. 1-31.....	8		
Warren County.....	Nov. 1-30.....	1		
Washington County.....	Jan. 1-31.....	1		
Wayne County.....	Nov. 1-Jan. 31.....	1		
Total for State.....		523	1	
Iowa, general.				
Buchanan County.....	Jan. 1-31.....	19		
Buena Vista County.....	Feb. 1-28.....	8		
Calhoun County.....	Jan. 1-31.....	1		
Cass County.....	Jan. 1-31.....	10		
Cedar County.....	Jan. 1-31.....	1		
Cherokee County.....	Jan. 1-31.....	3		
Clayton County.....	Jan. 1-31.....	24		
Dallas County.....	Jan. 1-31.....	1		
Delaware County.....	Jan. 1-31.....	1		
Dubuque County.....	Feb. 1-28.....	4		
Floyd County.....	Jan. 1-Feb. 28.....	40		
Grundy County.....	Feb. 1-28.....	2		
Jones County.....	Feb. 1-28.....	4		
Linn County.....	Jan. 1-Feb. 28.....	3		
Cedar Rapids.....	Jan. 1-31.....	7		
Madison County.....	Dec. 1-31.....	1		
Marion County.....	Jan. 1-31.....	1		
Marshall County.....	Jan. 1-31.....	5		
Mitchell County.....	Jan. 1-Feb. 28.....	1		
Monroe County.....	Feb. 1-28.....	3		
Polk County.....	Jan. 1-Feb. 28.....	41		
Pottawattamie County.....	Jan. 1-31.....	1		
Poweshiek County.....	Jan. 1-31.....	6		
Scott County.....	Jan. 1-31.....	2		
Sioux County.....	Feb. 1-28.....	2		
Story County.....	Jan. 1-Feb. 28.....	17		
Winnebago County.....	Feb. 1-28.....	17		
Woodbury County.....	Feb. 1-28.....	5		
Sioux City.....	Feb. 1-28.....	1		
Wright County.....	Dec. 1-31.....	2		
Sioux City.....	Feb. 1-28.....	1		
Total for State.....		240		
Kansas:				
Allen County.....	Jan. 1-31.....	1		
Barton County.....	Jan. 1-31.....	1		
Bourbon County.....	Jan. 1-31.....	3		
Cherokee County.....	Jan. 1-31.....	8		
Clay County.....	Nov. 1-30.....	1		
Cloud County.....	Nov. 1-30.....	1		
Cowley County.....	Nov. 1-30.....	3		
Crawford County.....	Dec. 1-Jan. 31.....	4		
Pittsburg.....	Jan. 1-31.....	1		
Decatur County.....	Nov. 1-Jan. 31.....	21		
Dickinson County.....	Jan. 1-31.....	4		
Douglas County.....	Dec. 1-31.....	1		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Ellsworth County.....	Jan. 1-31.....	14		
Finney County.....	Jan. 1-31.....	1		
Ford County.....	Jan. 1-31.....	6		
Gove County.....	Dec. 1-31.....	3		
Graham County.....	Nov. 1-Jan. 31.....	40		
Gray County.....	Jan. 1-31.....	18		
Hamilton County.....	Jan. 1-31.....	2		
Jackson County.....	Dec. 1-31.....	5		
Jewell County.....	Nov. 1-Jan. 31.....	44		
Kearny County.....	Jan. 1-31.....	1		
Kiowa County.....	Jan. 1-31.....	2		
Labette County.....	Jan. 1-31.....	5		
Lane County.....	Nov. 1-30.....	1		
Leavenworth County.....	Dec. 1-31.....	1		
Logan County.....	Jan. 1-31.....	2		
McPherson County.....	Dec. 1-Jan. 31.....	3		
Marshall County.....	Dec. 1-31.....	20		
Miami County.....	Jan. 1-31.....	3		
Montgomery County.....	Nov. 1-Jan. 31.....	109		
Coffeyville.....	Jan. 1-31.....	11		
Nemaha County.....	Jan. 1-31.....	1		
Neosho County.....	Jan. 1-31.....	1		
Ness County.....	Dec. 1-Jan. 31.....	8		
Norton County.....	Nov. 1-Jan. 31.....	38		
Osage County.....	Jan. 1-31.....	11		
Phillips County.....	Jan. 1-31.....	3		
Pottawatomie County.....	Nov. 1-Dec. 31.....	6		
Rawlins County.....	Jan. 1-31.....	5		
Reno County.....	Nov. 1-Jan. 31.....	123		
Rice County.....	Jan. 1-31.....	1		
Riley County.....	Jan. 1-31.....	17		
Rush County.....	Jan. 1-31.....	5		
Russell County.....	Jan. 1-31.....	1		
Saline County.....	Dec. 1-31.....	1		
Scott County.....	Nov. 1-Dec. 31.....	11		
Sedgewick County.....	Dec. 1-31.....	2	1	
Wichita.....	Jan. 1-31.....	1		
Shawnee County.....	Dec. 1-31.....	12		
Topeka.....	Nov. 1-Jan. 31.....	9		
Sheridan County.....	Nov. 1-Jan. 31.....	8		
Smith County.....	Jan. 1-31.....	2		
Sumner County.....	Nov. 1-Jan. 31.....	11		
Thomas County.....	Jan. 1-31.....	1		
Wabaunsee County.....	Nov. 1-30.....	3		
Wilson County.....	Nov. 1-Jan. 31.....	3		
Woodson County.....	Jan. 1-31.....	25		
Wyandotte County.....	Dec. 1-Jan. 31.....	91		
Kansas City.....	Jan. 1-31.....	39		
Total for State.....		780	1	
Kentucky:				
Hartford.....	Dec. 12-18.....	2		
Lexington.....	Dec. 12-Jan. 29.....	4		
Paducah.....	Jan. 5-11.....	1		
Total for State.....		7		
Louisiana:				
Caddo Parish—				
Shreveport.....	Jan. 23-Feb. 28.....	5	2	
Iberia Parish.....	Feb. 1-28.....	1		
Natchitoches Parish.....	Feb. 1-28.....	6		
Orleans Parish—				
New Orleans.....	Dec. 26-Mar. 26.....	94		
Morehouse Parish.....	Feb. 1-28.....	2		
St. John Parish.....	Feb. 1-28.....	6		
Tensas Parish.....	Feb. 1-28.....	13		
Total for State.....		127	2	
Maryland:				
Baltimore.....	Dec. 26-Jan. 1.....	1		
Dorchester County.....	Dec. 3-31.....	4		
Garrett County.....	Jan. 8-31.....	1		
Total for State.....		6		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Massachusetts:				
Bristol County.....	Feb. 1-28.....	6		
Essex County.....	Jan. 1-31.....	1		
Middlesex County.....	Jan. 1-31.....	76		
Lynn County.....	Jan. 1-31.....	4		
Plymouth County.....	Feb. 1-28.....	4		
Suffolk County.....	Jan. 1-31.....	3		
Worcester County.....	Jan. 1-31.....	22		
Total for State.....		116		
Michigan:				
Alcona County.....	Nov. 1-Jan. 31.....	26		
Antrim County.....	Nov. 1-Feb. 28.....	33		
Arenac County.....	Nov. 1-Feb. 28.....	136		
Bay County.....	Nov. 1-Feb. 28.....	83		
Berrien County.....	Jan. 1-Feb. 28.....	21		
Calhoun County.....	Feb. 1-28.....	1		
Cass County.....	Feb. 1-28.....	1		
Clare County.....	Feb. 1-28.....	1		
Delta County.....	Dec. 1-31.....	1		
Eaton County.....	Feb. 1-28.....	1		
Emmet County.....	Nov. 1-Feb. 28.....	4		
Genesee County.....	Nov. 1-Feb. 28.....	264		
Gladwin County.....	Nov. 1-Jan. 31.....	8		
Graffiot County.....	Nov. 1-30.....	1		
Houghton County.....	Nov. 1-Feb. 28.....	54		
Huron County.....	Feb. 1-28.....	6		
Ingham County.....	Dec. 1-Feb. 28.....	11		
Ionia County.....	Nov. 1-Feb. 28.....	40		
Iosco County.....	Dec. 1-Feb. 28.....	3	1	
Kent County.....	Dec. 1-Feb. 28.....	5		
Keweenaw County.....	Jan. 1-Feb. 28.....	3		
Lapeer County.....	Nov. 1-Feb. 28.....	7		
Livingston County.....	Nov. 1-Jan. 31.....	18		
Manistee County.....	Feb. 1-28.....	8		
Marquette County.....	Nov. 1-30.....	1		
Mason County.....	Nov. 1-30.....	1		
Mecosta County.....	Jan. 1-Feb. 28.....	11		
Midland County.....	Dec. 1-Feb. 28.....	11		
Missaukee County.....	Jan. 1-Feb. 28.....	33		
Montcalm County.....	Nov. 1-Feb. 28.....	5		
Montmorency County.....	Dec. 1-Feb. 28.....	36		
Oakland County.....	Jan. 1-31.....	1		
Oceana County.....	Jan. 1-31.....	1		
Ogemaw County.....	Jan. 1-Feb. 28.....	6		
Ontonagon County.....	Nov. 1-Feb. 28.....	12		
Osceola County.....	Dec. 1-Feb. 28.....	14		
Oscoda County.....	Jan. 1-Feb. 28.....	7		
Otsego County.....	Dec. 1-31.....	1		
Presque Isle County.....	Dec. 1-Jan. 31.....	2		
Roscommon County.....	Jan. 1-31.....	6		
Saginaw County.....	Dec. 1-Feb. 28.....	53		
St. Clair County.....	Jan. 1-Feb. 28.....	16		
Sanilac County.....	Nov. 1-Feb. 28.....	3		
Shiawassee County.....	Dec. 1-Feb. 28.....	8		
Tuscola County.....	Feb. 1-28.....	3		
Wayne County.....	Dec. 1-Feb. 28.....	8		
Total for State.....		975	1	
Minnesota:				
Anoka County.....	Feb. 1-28.....	5		
Becker County.....	Jan. 4-10.....	3		
Beltrami County.....	Dec. 21-Feb. 14.....	3		
Benton County.....	Dec. 14-20.....	7		
Blue Earth County.....	Dec. 21-27.....	1		
Carver County.....	Dec. 7-Jan. 3.....	4		
Chippewa County.....	Jan. 11-17.....	1		
Chisago County.....	Feb. 15-21.....	2		
Cook County.....	Jan. 25-31.....	2		
Dakota County.....	Feb. 1-28.....	4		
Dodge County.....	Jan. 25-31.....	1		
Faribault County.....	Feb. 8-14.....	1		
Freeborn County.....	Jan. 18-Feb. 28.....	18		
Goodhue County.....	Dec. 28-Jan. 31.....	1		
Hennepin County.....	Dec. 28-Feb. 28.....	38		
Houston County.....	Feb. 8-14.....	4		
Isanti County.....	Feb. 21-28.....	1		
Itasca County.....	Dec. 14-Feb. 28.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Minnesota—Continued.				
Kandiyohi County	Dec. 7-13	1		
Koochiching County	Feb. 1-7	1		
Lake County	Jan. 18—Feb. 28	8		
Mower County	Dec. 28—Feb. 28	26		
Nicollet County	Feb. 15-21	1		
Nobles County	Jan. 18-25	1		
Norman County	Jan. 18-25	2		
Olmsted County	Feb. 8-14	1		
Ottertail County	Dec. 21—Feb. 28	24		
Pine County	Feb. 22-28	1		
Polk County	Dec. 7-13	1		
Ramsey County	Jan. 11—Feb. 28	6		
Red Lake County	Dec. 7—Feb. 14	4		
Renville County	Dec. 7-13	1		
Rice County	Jan. 11-17	1		
Rock County	Dec. 7—Feb. 21	22		
Roseau County	Dec. 7—Feb. 28	32		
St. Louis County	Dec. 7—Feb. 28	21		
Sherburne County	Jan. 11-17	1		
Sibley County	Dec. 28—Feb. 28	9		
Stearns County	Feb. 1-21	4		
Swift County	Feb. 8-21	3		
Todd County	Dec. 28—Jan. 31	1		
Wabasha County	Dec. 13—Feb. 21	29		
Wadena County	Feb. 1-21	15		
Wilkin County	Feb. 15-21	1		
Watonwan County	Dec. 28—Jan. 31	1		
Wright County	Dec. 7—Feb. 28	41		
Yellow Medicine County	Feb. 22-28	9		
Total for State		366		
Mississippi:				
Bloxi	Jan. 2—Feb. 3	5		
Gulfport	Jan. 26—Mar. 9	9		
Holly Springs	Jan. 2-29	6		
Marshall County	Jan. 30—Mar. 5	4	1	
Natchez	Dec. 26—Feb. 26	90	2	
Claiborne County— Port Gibson	Dec. 19-25	1		
Woodville	Feb. 27—Mar. 19	27	1	
Total for State		142	4	
Missouri:				
Andrew County	Jan. 23—Feb. 26	5		
Joplin	Jan. 16-22	1		
Kansas City	Jan. 2—Feb. 19	16	1	
St. Joseph	Jan. 2—Feb. 5	7		
St. Louis	Dec. 26—Mar. 26	25		
Springfield	Jan. 1-31	4		
Total for State		58	1	
Montana:				
Beaverhead County	Dec. 1—Feb. 28	5		
Broadwater County	Feb. 1-28	2		
Carbon County	Jan. 1-31	1		
Chouteau County	Jan. 1-31	6		
Custer County	Feb. 1-28	1		
Dawson County	Nov. 1—Jan. 31	6		
Deerlodge County	Feb. 1-28	1		
Flathead County	Oct. 1—Nov. 30	6		
Gallatin County	Dec. 1—Feb. 28	3		
Jefferson County	Nov. 1-30	1		
Lewis and Clark County	Oct. 1—Feb. 28	31		
Madison County	Jan. 1—Feb. 28	2		
Meagher County	Feb. 1-28	2		
Missoula County	Oct. 1—Feb. 28	73		
Park County	Nov. 1—Jan. 31	14		
Powell County	Nov. 1—Feb. 28	2		
Ravalli County	Nov. 1—Feb. 28	5		
Sanders County	Jan. 1—Feb. 28	4		
Silverbow County	Oct. 1—Feb. 28	190		
Butte	Dec. 19-31	14		
Yellowstone County	Jan. 1-31	2		
Total for State		371		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Nebraska:				
Lincoln.....	Jan. 1-Feb. 28.....	5		
South Omaha.....	Dec. 5-11.....	3		
Total for State.....		8		
New Hampshire (entire State).....				
	Jan. 1-Feb. 28.....	7		
New Jersey:				
Bergen County.....	Feb. 1-28.....	1		
Passaic County.....	Jan. 1-31.....	1		
Trenton.....	Jan. 30-Feb. 5.....	1		
Total for State.....		3		
New York (entire State)				
	Sept. 1-Nov. 30.....	33	1	
Cattaraugus County.....	Dec. 1-31.....	1		
Cayuga County.....	Dec. 1-31.....	1		
Erle County.....	Dec. 1-31.....	17		
Jefferson County.....	Dec. 1-31.....	1		
Lewis County.....	Dec. 1-Jan. 31.....	2		
Niagara County.....	Dec. 1-Jan. 31.....	40		
Oneida County.....	Dec. 1-Jan. 31.....	2		
St. Lawrence County.....	Jan. 1-31.....	9		
Ulster County.....	Jan. 1-31.....	2		
Westchester County.....	Jan. 1-31.....	1		
Total for State.....		109	1	
North Carolina:				
Alamance County.....	Jan. 1-Feb. 28.....	86		
Beaufort County.....	Jan. 1-Feb. 28.....	11		
Bertie County.....	Jan. 1-31.....	6		
Bladen 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		
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.....	7		
Onslow County.....	Jan. 1-Feb. 28.....	1		
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		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
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	
North Dakota:				
Billings County.....	Jan. 1-Feb. 28.....	11		
Bothineau County.....	Oct. 1-31.....	1		
Cass County.....	Dec. 1-31.....	1		
Grand Forks County.....	Jan. 1-Feb. 28.....	2		
McLean County.....	Dec. 1-Jan. 31.....	4		
Nelson County.....	Feb. 1-28.....	12		
Steele County.....	Feb. 1-28.....	6		
Williams County.....	Feb. 1-28.....	6		
Walsh County.....	Jan. 1-31.....	39		
Total for State.....		82		
Ohio:				
Allen County.....	Jan. 1-Feb. 28.....	26		
Adams County.....	Jan. 1-31.....	1		
Angelsae County.....	Feb. 1-28.....	8		
Belmont County.....	Jan. 1-Feb. 28.....	7		
Brown County.....	Jan. 1-Feb. 28.....	19		
Clermont County.....	Jan. 1-31.....	1		
Cuyahoga County—				
Cleveland.....	Dec. 19-26.....	1		
Darke County.....	Jan. 1-31.....	3		
Franklin County.....	Jan. 1-Feb. 28.....	7		
Hamilton County.....	Jan. 1-Feb. 28.....	2		
Jackson County.....	Jan. 1-Feb. 28.....	36		
Knox County.....	Feb. 1-28.....	1		
Miami County.....	Jan. 1-Feb. 28.....	2		
Montgomery County.....	Jan. 1-Feb. 28.....	3		
Portage County.....	Feb. 1-28.....	10		
Ross County.....	Jan. 1-31.....	16		
Soloto County.....	Feb. 1-28.....	3		
Seneca County.....	Feb. 1-28.....	3		
Shelby County.....	Jan. 1-Feb. 28.....	7		
Van Wert County.....	Jan. 1-Feb. 28.....	27		
Wayne County.....	Jan. 1-31.....			
Williams County—				
Stryker.....	Dec. 19-25.....	1		
Wyandot County.....	Feb. 1-28.....	4		
Total for State.....		189		
Oklahoma, general.....				
Beckham County.....	Nov. 1-30.....	1	28	
Blaine County.....	Dec. 1-31.....	7		
Coal County.....	Aug. 1-Sept. 30.....	10		
Comanche County.....	Nov. 1-30.....	1		
Creek County.....	Oct. 1-Nov. 30.....	3		
Garfield County.....	Nov. 1-30.....	1		
Grant County.....	Aug. 1-31.....	1		
Harmon County.....	Aug. 1-31.....	2		
Hughes County.....	Aug. 1-31.....	6		
Jackson County.....	Aug. 1-Nov. 30.....	19		
Kingfisher County.....	Oct. 1-31.....	2		
Le Flore County.....	Oct. 1-31.....	1		
Lincoln County.....	Aug. 1-31.....	3		
McIntosh County.....	Sept. 1-30.....	2		
Marshall County.....	Oct. 1-31.....	1		
Muskogee County.....	Oct. 1-31.....	1		
Oktuskee County.....	Oct. 1-31.....	1		
Oklahoma County.....	Aug., Sept., and Nov.....	14	1	
Osage County.....	Sept. 1-Oct. 31.....	9		
Pawnee County.....	Aug. 1-31.....	1		
Pottawatomie County.....	Sept. 1-Nov. 30.....	41		
Pushmataha County.....	Sept. 1-30.....	1		
Seminole County.....	Oct. 1-Nov. 30.....	7		
Sequoyah County.....	Aug. 1-Sept. 30.....	2		
Tulsa County.....	Nov. 1-30.....	3		
Washington County.....	Nov. 1-30.....	1		
Woodward County.....	Nov. 1-30.....	1		
Total for State.....		527	29	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oregon (entire State)	Sept. 1-Dec. 31....	89		
Portland.....	Nov. 1-30.....	2		
Total for State		91		
Pennsylvania (entire State)	Dec. 1-Feb. 28....	57		
South Carolina:				
Clover.....	Jan. 23-29.....	3		
Total for State		3		
Tennessee:				
Davidson County—				
Nashville.....	Feb. 20-Mar. 19....	4		
DeKalb County.....	Dec. 12-Jan. 26....	10		
Hamilton County—				
Chattanooga.....	Dec. 26-Mar. 26....	61		
Knox County—				
Knoxville.....	Jan. 2-Apr. 2.....	48		
Shelby County.....	Nov. 1-Jan. 31....	28		
Memphis.....	Nov. 1-Mar. 26....	177		
Washington County.....	Dec. 26-Feb. 5....	11		
Total for State		339		
Texas:				
Amarillo.....	Jan. 16-22.....	16		
Atascosa County.....	Jan. 31-Feb. 19....	6		
Denton County.....	Dec. 26-Feb. 27....	106	15	
El Paso.....	Nov. 1-Jan. 22....	5		
Fort Worth.....	Nov. 1-Feb. 28....	52	4	
Galveston.....	Feb. 6-Mar. 19....	5	1	
Hale County.....	Jan. 9-15.....	7		
Normanna.....	Jan. 1-31.....	12	5	
Rockdale.....	Feb. 13-19.....	3		
San Antonio.....	Dec. 5-Mar. 26....	32	1	
Taylor.....	Feb. 27-Mar. 19....	2		
Waco.....	Jan. 1-Feb. 28....	3		
Walnut Springs.....	Jan. 12-18.....	2		
Wills Point.....	Jan. 1-Feb. 28....	5	2	
Total for State		256	29	
Utah:				
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		
Sanpete 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	
Virginia:				
Lynchburg.....	Jan. 30-Mar. 26....	40	1	
Petersburg.....	Dec. 26-Jan. 26....	2		
Portsmouth.....	Jan. 16-29.....	2		
Richmond.....	Dec. 1-31.....	1		
Total for State		45	1	
Washington:				
Asotin County.....	Jan. 1-31.....	1		
Chelan County.....	Feb. 1-28.....	1		
Columbia County.....	Feb. 1-28.....	4		
Cowlitz County.....	Feb. 1-28.....	2		
Franklin County.....	Jan. 1-31.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to April 8, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Washington—Continued.				
King County.....	Jan. 1-31.....	5		
Seattle.....	Jan. 2-31.....	7		
Kitsap County.....	Jan. 1-Feb. 28.....	4	1	
Klickitat County.....	Jan. 1-31.....	15		
Lewis County.....	Jan. 1-31.....	2		
Lincoln County.....	Jan. 1-31.....	1		
Okanogan County.....	Feb. 1-28.....	2		
Pierce County.....	Jan. 1-31.....	1		
Tacoma.....	Jan. 2-Feb. 28.....	4		
San Juan County.....	Jan. 1-31.....	1		
Skaft County.....	Jan. 1-Feb. 28.....	31		
Spokane County.....	Jan. 1-31.....	2		
Spokane.....	Dec. 19-Feb. 28.....	57		
Stevens County.....	Jan. 1-31.....	3		
Walla Walla County.....	Jan. 1-Feb. 28.....	29		
Whatcom County.....				
Bellingham.....	Feb. 1-28.....	3	1	
Wahkiakum County.....	Dec. 1-31.....	8		
Whitman County.....	Jan. 1-Feb. 28.....	21		
Yakima County.....	Jan. 1-31.....	6		
Total for State.....		212	2	
West Virginia:				
Berkeley Springs.....	Dec. 27-Feb. 17.....	6		
Wheeling.....	Jan. 30-Feb. 5.....	1		
Total for State.....		7		
Wisconsin:				
Buffalo County.....	Feb. 1-28.....	3		
Chippewa County.....	Jan. 1-31.....	3		
Clark County.....	Jan. 1-Feb. 28.....	14		
Crawford County.....	Feb. 1-28.....	7		
Dane County.....	Feb. 1-28.....	1		
Douglas County.....	Jan. 1-Feb. 28.....	13		
Superior.....	Dec. 19-Jan. 1.....	6		
Grant County.....	Feb. 1-28.....	1		
Jefferson County.....	Jan. 1-Feb. 28.....	19		
Juneau County.....	Jan. 1-31.....	1		
La Crosse County.....	Jan. 1-Feb. 28.....	14		
La Crosse.....	Dec. 19-Jan. 1.....	2		
Langlade County.....	Jan. 1-Feb. 28.....	3		
Milwaukee County.....	Jan. 1-Feb. 28.....	19		
Milwaukee.....	Dec. 19-Jan. 1.....	2		
Price County.....	Feb. 1-28.....	1		
Walworth County.....	Feb. 1-28.....	1		
Winnebago County.....	Jan. 1-31.....	2		
Total for State.....		112		
Grand total for the United States.....		9,715	76	

MORBIDITY AND MORTALITY.

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

[For smallpox see special tables.]

Cities.	Week ended—	Estimated population, 1909.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.	Apr. 2	50,814	18					1							
Ann Arbor, Mich.	Mar. 26	14,711	6	2				1							
Ashtabula, Ohio.	Apr. 2	16,648	6										1		
Bath, Me.	do.	12,055								1					
Baltimore, Md.	do.	576,023	211	65	34	9	3	37	2	6		17	17		2
Bayonne, N. J.	do.	49,894		1	3					1			4		
Berkeley, Cal.	Mar. 26	19,700	10	1				3				15		2	
Biddeford, Me.	Apr. 1	17,676	12												
Binghamton, N. Y.	Mar. 26	45,855	20		1	10	1	4	1			11			
Do.	Apr. 2		25	7	1	5		3				15		6	
Boston, Mass.	Mar. 26	622,970	265	72	35	6	1	38	2	54	3	86	2	10	
Do.	Apr. 2		290	56	29	5		32		52	3	142	5	7	3
Braddock, Pa.	do.	21,000	12									9			
Bridgeport, Conn.	do.	90,913	29	6	3			18	1	6		5		7	
Brocton, Mass.	do.	53,978	16	8	3			3							
Butler, Pa.	Mar. 26	12,760	5	4	1							2			
Cambridge, Mass.	Apr. 2	101,872	31	7	5			5		3		6			
Cambridge, Ohio.	do.		3	1	1	1	1					39			
Camden, N. J.	do.	89,305	28	1	2	1		7		12	1				
Charlotte, N. C.	do.	35,101	12	2		1	1					22			
Chattanooga, Tenn.	do.	34,554				2		1		1					
Chelsea, Mass.	do.	39,862	17					3				2		1	
Chicago, Ill.	do.	2,224,491	706	98	87	6	1	152	4	99	16	511	6	124	3
Chicopee, Mass.	do.	20,010	6	1			2								
Cincinnati, Ohio.	do.	351,212	145	49	18	1	1	4		6		190	4	1	1
Clinton, Mass.	do.	12,656	5												
Columbus, Ga.	do.	17,893	13												
Columbus, Ohio.	do.	155,340	66	10	5	3	1	5		2		132	3	3	
Covington, Ky.	do.	51,715	17		2	1						2			1
Danville, Ill.	do.	27,387	8	3	3							41			
Dayton, Ohio.	do.	108,888	42					3				4			
Detroit, Mich.	do.	384,855	198					2	34	1	10				
Duluth, Minn.	Mar. 26	74,520	22	4	1			3	14			12			
Do.	Apr. 2		18	1				21		1		8			
Dunkirk, N. Y.	do.	18,061	6	1	1							22			
Elizabeth, N. J.	do.	67,470	16					23	1	1		17			
Elmira, N. Y.	do.	35,765	14		1	2		2		1		1			
Elyria, Ohio.	Mar. 26	11,653	3									1			
Do.	Apr. 2		3									3			
Evansville, Ind.	do.	66,948	17	2	2	3		2		2		8			
Everett, Mass.	do.	32,931	12	4	1					1		1			1
Fall River, Mass.	do.	106,481	42	11	2					1					
Freeport, Ill.	Mar. 26	19,200	3							2					
Do.	Apr. 2		5		1					3					
Galesburg, Ill.	do.	21,615	5					3							
Gloucester, Mass.	do.	25,923	9												
Grand Rapids, Mich.	do.	105,909	35	2	4	5	2	17	1	2		9			
Harrison, N. J.	do.	14,604	4					1		1					
Hartford, Conn.	do.	103,808	34	5	3			3		11	3	10			
Haverhill, Mass.	do.	38,354	19	3	1							4		8	
Homestead, Pa.	Mar. 21	17,145	6	2								1	1		
Do.	Mar. 28		7							1	1				
Hyde Park, Mass.	Apr. 2	15,522	9		1			2				2			
Indianapolis, Ind.	Mar. 26	241,826	102	1	7	2		13		3		458	3	27	
Jacksonville, Fla.	Apr. 2	40,798	18		2	2		2							
Johnstown, Pa.	do.	46,520	27	3	2			1	3		6	1	39		
Kansas City, Kans.	do.	85,742	22	1	4			2	6			12	1	1	
Kearny, N. J.	do.	15,765	10	1	1			6		1		6		1	
Kingston, N. Y.	Mar. 26	26,110	17		1	3		3	1						
Do.	Apr. 2		10					1							
Knoxville, Tenn.	do.	37,758	5		1							5			
Lackawanna, N. Y.	Mar. 31		11	3	1			11				9	2		
La Crosse, Wis.	Apr. 2	20,224	2			1		2				14			
La Fayette, Ind.	do.	19,801	12		2							1			
Lancaster, Pa.	do.	49,962	16	4		3		4		1		25			
Lawrence, Mass.	do.	76,042	36	2	1	1	2	1		1	1	62	2		
Lebanon, Pa.	do.	20,295	8	2	1	1		2		1	1	1			
Lexington, Ky.	do.	30,690	7	1	2			2		1		9			

⊕ Estimate for 1906. No estimate for 1907.

MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Esti- mated popu- lation, 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.
Los Angeles, Cal.	Mar. 19	a 103,000	82	24	23			16		5		349		5	
Do	Mar. 23		87	25	14	4	1	16		3		159	1		
Lowell, Mass.	Apr. 2	95,125	54	2	2			2	2	5		52	1		
Lynchburg, Va.	do	29,457										2			
Lynn, Mass.	Mar. 25	83,865	30	3	6	3		10		4	1	3			
Do	Apr. 2		23	4	1	2		8		6		9			
Madison, Ind.	do		1	1		1									
Malden, Mass.	Mar. 25	41,535		1	2			4				2			
Do	Apr. 2		3	1	1			4		1		2			
Manchester, N. H.	do	68,561	25	1	1			1		6	2	3			
Manistee, Mich.	do	10,788										5		2	
Manitowoc, Wis.	do	13,490	3	1						1					
Mansfield, Ohio.	do	21,390				2						18			
Marinette, Wis.	do	14,682	4					1							
Marlboro, Mass.	Mar. 25	14,444	5					1				47			
Do	Apr. 2		0									96			
Massillon, Ohio.	do	13,610	3					2		1		48	2		
Medford, Mass.	do	20,839	5		1			5		1		9		2	
Meirose, Mass.	Mar. 26	15,361	4								1	1			
Milwaukee, Wis.	Apr. 2	332,495	140	27	12	45	6	51	1	19	4	121		23	
Moline, Ill.	Mar. 26	23,061	4					3	1	1		1			
Do	Apr. 2		9					1		1	1				
Montclair, N. J.	do	18,296	4			10		1							
Montgomery, Ala.	do	43,927	12		2			1		8					
Monticello, Ind.	Apr. 4		6									3			
Mount Vernon, N. Y.	Apr. 2	27,891	12	1				3							
Morristown, N. J.	Mar. 26	12,849	7			1		5		4	2	8			
Muskegon, Mich.	Apr. 2	20,995	7					2							
Nanticoke, Pa.	Apr. 3	13,980	7					1							
Nashville, Tenn.	Apr. 2	108,476	36	6	7	1	1	2				4			
Nebraska City, Nebr.	do		1									8			
Newark, N. J.	do	308,669	133	18	15			56		24	1	3		2	
New Bedford, Mass.	do	83,898	34	7		1		11				34			
Newburyport, Mass.	do	14,832	6									99			
New Orleans, La.	do	327,662	127	26	19	5	2	32	1	15	1	183	3		
Newport, Ky.	do	31,345	12		2					1					
New York, N. Y.	do	4,450,963	1,666	660	195	35	6	709	30	415	44	1,737	30	25	9
Niagara Falls, N. Y.	do	32,012	10		2	2		2		1		15			
Norristown, Pa.	do	24,491	11		2	1	1	2		1	1				
North Adams, Mass.	do	20,510	10	2	1	1	1	2							
Northampton, Mass.	do	21,008	11					1				1			
North Weymouth, Mass.	Mar. 26	11,793	7												
Oakland, Cal.	do	b 73,812	36	2	5	1		2				12			
Orange, N. J.	Apr. 2	27,669	19	2	2			3				13			
Palmer, Mass.	do		7					3							
Peekskill, N. Y.	do	15,473	6	1				10							
Plymouth, Pa.	do	17,524	4					1		1		7			
Pittsburg, Pa.	Mar. 26	558,123	251	35	15	3	14	1		14	3	173	7	35	1
Pittsfield, Mass.	Apr. 2	27,589	13	1	2			1		1					
Plainfield, N. J.	do	20,947	5	1	1			2		1		2			
Philadelphia, Pa.	do	1,491,082	153	67	20	5	40	2	73	9		76	1	34	6
Portsmouth, N. H.	do	11,336	0												
Portsmouth, Va.	Mar. 19	19,225	14					1				9			
Do	Mar. 26		10					2							
Do	Apr. 2		11							1		4			
Pottstown, Pa.	do	14,065	1	1	3			1	1	1		24			
Providence, R. I.	do	217,065	92	4	4	2	1	10		8		21	4		1
Racine, Wis.	Mar. 26	34,840	8		1										
Do	Apr. 2		9		3										
Reading, Pa.	Apr. 4	97,231	22	1	1		9			1		54		1	
Rock Island, Ill.	Apr. 2	24,766	11		1	1									
Sacramento, Cal.	Mar. 26	31,889	11	1	2	1	1			2		21	1		
San Antonio, Tex.	Feb. 19	67,404	0	4						1					
Do	Feb. 26		0	8		2									
Do	Mar. 5		0	16				2		1		3			
Do	Mar. 12		0	4		1		1				3			
Do	Mar. 19		0	10						1		6			
Do	Mar. 26		1	5		4				2	1	3			
Do	Apr. 2		0					1				9			

a Population 1900; no estimate.

b Estimated population 1906. No estimate 1909.

MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Esti- mated popu- lation, 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.
Sandusky, Ohio.....	Mar. 26	20,737	1												
Do.....	Apr. 2	4	4												
San Francisco, Cal.....	Mar. 26	• 342,782	121	32	22	1	5			10		34	2	5	1
San Jose, Cal.....	Mar. 19	24,596	6												
Do.....	Mar. 26	6	6		1										1
Saratoga Springs, N. Y.....	Apr. 2	13,471	4			1						2	1		
Schenectady, N. Y.....	Mar. 26	73,037	22	11	5	2	7	4	1	2		17	1		
Seattle, Wash.....	do.	• 104,169	43	5	7	2	2	15	4			26			
St. Louis, Mo.....	Apr. 2	686,369	228	60	26	2	2	115	3	25	1	70	3	38	
Somerville, Mass.....	do.	75,375	35	2	3	1		7	2			1			
South Bend, Ind.....	do.	49,321	20	1	1			2	1	1					
South Omaha, Nebr.....	do.	134,927													
Spokane, Wash.....	Mar. 26	• 47,006	32	3	3			3	1	2		46			1
Springfield, Mass.....	Apr. 2	82,724	37	2	3	5		6	2	4		19		1	
Springfield, Ohio.....	do.	43,975	16	2	4			1	1	1		16			1
Steelton, Pa.....	do.	14,769	3	1	1	1		5		1		2		2	
Superior, Wis.....	Mar. 26	40,919	8					7	1						
Do.....	Apr. 2	4	4					9							
Taunton, Mass.....	do.	30,926	14	2	2			2		1		6			
Terre Haute, Ind.....	do.	55,509	22		3					2		100			
Titusville, Pa.....	do.	8,397	1			1									
Topeka, Kans.....	do.	44,757	1					1		1		4			
Trenton, N. J.....	do.	92,878	5	7	4			18	1						
Utica, N. Y.....	do.	69,458	34	3	3			4	7	2		13	1	2	
Waltham, Mass.....	do.	28,522	12	1	1			2							
Warren, Pa.....	Mar. 12	11,838	4									30	1	4	
Do.....	Mar. 21	3	3			1			1	1		7		8	
Do.....	Mar. 28	5	5							2		35		1	
Washington, D. C.....	Apr. 2	322,212	152	27	11	3	1	33	1	9		8		1	18
West Newton, Mass.....	do.	39,419	11	1	1	1						11			
Wichita, Kans.....	do.	39,612	18		1			5		1		47			
Wilkes-Barre, Pa.....	do.	64,323	35	1	1			4		1		3		8	
Wilksburg, Pa.....	do.	19,999	8	2		1	1					2		3	
Williamsport, Pa.....	do.	30,220	13		1			4	1			32			
Wilmington, Del.....	do.	88,980	36		6			2							
Woburn, Mass.....	do.	14,520	7		1					1	1	7			
Worcester, Mass.....	Mar. 26	135,906	54	11	3			6		10	1	15		2	

• Estimated population 1906. No estimate 1909.

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

FLORIDA.—Week ended April 2, 1910. Reports from the state board of health show typhoid fever present in 3 localities with 3 cases, smallpox in 4 counties with 17 cases, diphtheria in 1 locality (Jacksonville) with 1 case, and tuberculosis in 7 localities with 7 cases.

ILLINOIS—Quincy.—Month of March, 1910. Population, 43,000. Total number of deaths from all causes 65, including typhoid fever 3, tuberculosis 10. Cases reported: Typhoid fever 7, diphtheria 11.

KANSAS.—Month of February, 1910. Population, 1,703,002. Deaths from contagious diseases include typhoid fever 10, smallpox 1, measles 14, scarlet fever 17, diphtheria 12, tuberculosis 65. Cases reported: Typhoid fever 80, smallpox 280, measles 1,846, scarlet fever 247, diphtheria 203, tuberculosis 276.

Month of March, 1910. Deaths: Typhoid fever 11, measles 4, scarlet fever 7, diphtheria 11, tuberculosis 82. Cases reported: Typhoid fever 35, smallpox 358, measles 562, diphtheria 82, tuberculosis 134.

MASSACHUSETTS.—Week ended February 5, 1910. Population of reporting towns, 2,401,701. Total number of deaths from all causes 724, including typhoid fever 2, measles 4, scarlet fever 8, diphtheria 9, tuberculosis 80.

Week ended February 12, 1910. Total number of deaths from all causes 812, including typhoid fever 2, measles 4, scarlet fever 4, diphtheria 13, tuberculosis 73.

Week ended February 19, 1910. Total number of deaths 865, including typhoid fever 1, measles 11, scarlet fever 6, diphtheria 15, tuberculosis 79.

Week ended February 26, 1910. Total number of deaths 835, including typhoid fever 5, measles 4, scarlet fever 4, tuberculosis 75.

MICHIGAN.—Month of February, 1910. Population, 2,666,308. Total number of deaths from all causes 2,985, including typhoid fever 41, measles 16, scarlet fever 30, diphtheria 43, tuberculosis 223.

MONTANA.—Month of February, 1910. Population, 243,329. Total number of deaths from all causes 275, including typhoid fever 1, scarlet fever 5, diphtheria 4, tuberculosis 25. Cases reported: Typhoid fever 23, smallpox 98, measles 12, scarlet fever 70, diphtheria 33.

NEW JERSEY.—Month of March, 1910. Population, 1,883,669. Total number of deaths from all causes 3,096, including typhoid fever 16, measles 16, scarlet fever 31, diphtheria 71, tuberculosis 347.

NEW YORK—*Yonkers*.—Month of December, 1909. Population, 72,000. Total number of deaths from all causes 103, including scarlet fever 2, diphtheria 3, tuberculosis 11. Cases reported: Typhoid fever 4, measles 4, scarlet fever 38, diphtheria 27, tuberculosis (pulmonary) 32.

Month of January, 1910. Population, 74,897. Total number of deaths from all causes 113, including scarlet fever 4, diphtheria 4, tuberculosis 11. Cases reported: Typhoid fever 1, scarlet fever 56, diphtheria 19, tuberculosis (pulmonary) 18.

OREGON—*Portland*.—Month of January, 1910. Population, 265,000. Total number of deaths from all causes 198, including typhoid fever 1, scarlet fever 3, diphtheria 4, tuberculosis 13. Cases reported: Typhoid fever 10 (11 cases brought for treatment), smallpox 2, measles 23, scarlet fever 77, diphtheria 33, tuberculosis (pulmonary) 11.

Month of February, 1910. Population, 265,000. Total number of deaths from all causes 180, including typhoid fever 2, measles 1, scarlet fever 2, diphtheria 1, tuberculosis 17. Cases reported: Typhoid fever 8 (brought for treatment 15), smallpox 3, measles 47, scarlet fever 77, tuberculosis (pulmonary) 6.

PENNSYLVANIA—*Erie*.—Year 1909. Population, 62,442. Total number of deaths from all causes 1,005, including typhoid fever 19, measles 32, scarlet fever 2, diphtheria 7, tuberculosis 68. Cases reported: Typhoid fever 158, measles 1,129, scarlet fever 309, diphtheria 57, tuberculosis 206.

TEXAS—*El Paso*.—Month of February, 1910. Population, 50,000. Total number of deaths from all causes 106, including measles 1, tuberculosis 28. Cases reported: Typhoid fever 2, smallpox 2, measles 76, diphtheria 4.

UTAH.—Month of February, 1910. Population, 346,873. Total number of deaths from all causes 266, including typhoid fever 2, scarlet fever 7, diphtheria 2, tuberculosis 11. Cases reported: Typhoid fever 29, smallpox 91, measles 25, scarlet fever 272, diphtheria 42, tuberculosis 15 (incomplete).

VIRGINIA—*Petersburg*.—Month of March, 1910. Population, 30,000. Total number of deaths from all causes 55, including scarlet fever 1, tuberculosis 7. Cases reported: Typhoid fever 1, scarlet fever 1, diphtheria 2, tuberculosis 6.

FOREIGN AND INSULAR.

CHINA.

HONGKONG—Smallpox—Inspection of Vessels.

Passed Assistant Surgeon Foster reports, February 23 and March 2: Quarantine restrictions enforced by and against Hongkong remain as reported February 12.

During the week ended February 19, 6 cases of smallpox with 2 deaths were reported and during the week ended February 26, 4 cases with 2 deaths.

INSPECTION AND DISINFECTION OF VESSELS.

Week ended February 12.

Vessels granted bills of health.....	9
Total members of crews.....	849
Total cabin passengers.....	195
Total steerage passengers.....	265
Members of crew bathed.....	690
Steerage passengers bathed.....	267
Pieces of baggage disinfected.....	963
Vessels disinfected to kill rats.....	0
Crews' quarters disinfected:	
With formaldehyde.....	8
With sulphur.....	0

Week ended February 19.

Vessels granted bills of health.....	9
Total members of crews.....	785
Total cabin passengers.....	111
Total steerage passengers.....	215
Members of crew bathed.....	547
Steerage passengers bathed.....	217
Pieces of baggage disinfected.....	589
Vessels disinfected to kill rats.....	3
Crews' quarters disinfected:	
With formaldehyde.....	5
With sulphur.....	3

NANKIN—Smallpox.

Vice-Consul Pontius reports, February 28:

Smallpox is present, but not in epidemic form. One death from "black" smallpox occurred among foreigners during the week ended February 26.

SHANGHAI—Inspection of Vessels—Smallpox.

Acting Assistant Surgeon Ransom reports, March 8:

Week ended March 5. Supplemental bill of health granted to one vessel with 42 in crew and 3 cabin passengers; vessel, crew, and passengers were inspected.

The weekly reports of the municipal health officer show 2 cases of smallpox among foreigners and 3 deaths from smallpox among natives.

CUBA.

CIENFUEGOS—Inspection of Vessels.

Acting Assistant Surgeon Suarez reports, March 31:

Week ended March 26. Vessels inspected, 7. Bills of health issued, 7. Members of crews of outgoing vessels inspected, 160, taken on at this port, 1. Passengers landed, 1. No quarantinable disease was reported.

HABANA—Inspection of Vessels.

Passed Assistant Surgeon de Valin reports, April 5:

Week ended April 2. Bills of health issued, 34. Vessels inspected and passed, 29. Members of crews of outgoing vessels inspected, 1,333. Passengers of outgoing vessels inspected, 1,200. Vaccination certificates issued, 7. No quarantinable disease was reported.

ECUADOR.

GUAYAQUIL—Plague, Smallpox, and Yellow Fever.

Passed Assistant Surgeon Parker reports, March 8:

Two weeks ended February 28.

[Report received from the director of health.]

Disease.	Locality.	Previ- ously reported.	New cases.	Cured.	Died.	Remain- ing.
Plague.....	Guayaquil.....	14	15	10	1	18
Do.....	Milagro.....	4	6	2	2	6
Yellow fever.....	Guayaquil.....	7	28	18	10	7

This report shows a decrease of 3 in the number of plague cases and an increase of 8 in the number of yellow fever cases as compared with the previous semi-monthly report. Total number of deaths from all causes, 145, a decrease of 6 as compared with the corresponding period of last year. Estimated population, 70,000; mortality, 48.48.

Summary of sanitary work, February 16 to 28.—Houses fumigated, 19; houses disinfected, 267; premises cleaned, 75; lining of walls removed, 67; vessels disinfected, 108; baggage fumigated, 302 pieces; clothing disinfected by steam, 2,708 pieces; huts demolished, 1; rats trapped, 1,311.

HAWAII.

HONOLULU—Plague-prevention Work.

Passed Assistant Surgeon Ramus reports, March 21:

The last case of human plague occurred at Honolulu July 17, 1907.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, August 22, 1907.

Week ended March 19, 1910.

Total rats taken.....	513
Trapped.....	510
Found dead (<i>mus rattus</i>).....	2
Killed by sulphur dioxide.....	1
Examined bacteriologically.....	372
Plague rats.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i>	44
<i>Mus musculus</i>	214
<i>Mus norvegicus</i>	32
<i>Mus rattus</i>	220
Classification of rats killed by sulphur dioxide:	
<i>Mus alexandrinus</i>	1
Average number of traps set daily.....	1, 338

Smallpox on Steamship Manchuria.

Doctor Ramus further reports:

April 9. One case smallpox on steamship *Manchuria* from Orient.

INDIA.**BOMBAY—Decrease in Plague Among Rats.**

Consul Denison reports, March 11:

There has been a decrease in plague among rats during the past 10 days. The percentage of plague-infected rats captured ordinarily varies from 2 per cent in November to 30 per cent in March. At this time last year the figure was 26 per cent, but the highest that has been reached this season is 18 per cent, and during the past 10 days that has declined to 14 per cent. It may be merely a passing phase in the progress of the infection, due to the unusually cool weather that has been prevalent for the month of March, but unless this is the case, there ought soon to be a corresponding decline in plague amongst human beings.

During the week ended March 8 there were 121 deaths from plague, as against 91 in the preceding week and 197 in the corresponding week of 1909.

Smallpox accounted for 53 deaths, as against 42 in the previous week and 19 in the corresponding week of 1909.

The total mortality was 796, or 43 more than in the preceding week, so that the increase represents exactly the spread in these two diseases.

CALCUTTA—Cholera, Plague, and Smallpox.

Acting Assistant Surgeon Allan reports, March 10:

Week ended February 19. At Calcutta there were 34 deaths from cholera, 21 from plague, and 3 from smallpox; in all Bengal, 2,499 cases of plague with 1,966 deaths. Week ended February 26: At Calcutta 41 deaths from cholera, 20 from plague, and 2 from smallpox; in all Bengal, 2,901 cases of plague with 2,367 deaths.

Week ended March 5. Bill of health issued to steamship *Koranna* for New York and Philadelphia, with a total crew of 58. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and effects of Asiatics disinfected.

ITALY.

NAPLES—Examination of Emigrants—Smallpox.

Surgeon Geddings reports, March 21:

Vessels inspected at Naples week ended March 19.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Mar. 14	Hamburg.....	New York.....	941	115	1,250
16	Romanic.....	Boston.....	1,213	85	1,580
16	Duca degli Abruzzi.....	New York.....	1,289	60	1,250
17	Germania.....	do.....	889	80	1,100
18	Barbarossa.....	do.....	1,042	60	1,150
19	Verona.....	Philadelphia.....	1,686	115	2,580
	Total.....		7,060	515	8,910

Rejections recommended at Naples.

Date.	Name of ship.	Trachoma.	Favus.	Suspected favus.	Other causes.	Total.
Mar. 14	Hamburg.....	14	6	11	3	34
16	Romanic.....	17	1	19	5	42
16	Duca degli Abruzzi.....	22	1	14	4	41
17	Germania.....	15	3	9	4	31
18	Barbarossa.....	27	3	15	7	52
19	Verona.....	28	2	21	9	60
	Total.....	123	16	89	32	260

Smallpox in Naples.—During the week ended March 20, 25 cases of smallpox with 1 death were reported at the health office of the city of Naples.

JAPAN.

YOKOHAMA—Inspection of Vessels—Examination of Rats.

Surgeon Irwin reports, March 7 and 14:

Week ended March 5. Vessels inspected: Steamships *Rygja* for Portland, Oreg., crew 42, cabin passengers 1; *Indrawadi* for New York, crew 62; *Oceano* for Seattle, crew 59, cabin passengers 1; *Cleveland* for Manila, crew 449, cabin passengers 761; and *Kumano Maru* for Manila, crew 105, cabin passengers 18, steerage passengers 11, and schooner *Guam Maru* for Guam, crew 10, cabin passengers 2, steerage passengers 4.

Week ended March 12. Vessels inspected: Steamships *Titan* for Seattle, crew 94, cabin passengers 6, steerage passengers 142; *Aymeric* for Manila, crew 52, steerage passengers 1; *Chicago Maru* for Seattle, crew 82, cabin passengers 9, steerage passengers 25; *Tamba Maru* for Kobe, crew 97; *Nippon Maru* for San Francisco, crew 160, cabin passengers 43, steerage passengers 82; *Antilochus* for Manila, crew 92, steerage passengers 55; and schooner *Matoya Maru* for Guam, crew 12.

Scarlet fever is present in epidemic form at Tokio, with 130 cases in city and vicinity since January 1; at Kiriu 70 cases are reported.

During the months of January and February, 1910, 346 cases of typhoid fever were reported at Tokio.

During the year ended December 31, 1909, the health office of Yokohama received 305,825 rats, which were microscopically examined.

KOBE—Inspection of Vessels.

Acting Assistant Surgeon Smith reports, March 10:

Week ended March 5. Supplemental bills of health issued to 4 steamships; members of crews inspected, 294; steerage passengers bathed, 4 (effects disinfected); pieces of baggage steamed, 13; pieces of bedding steamed, 8; manifests viséed for 42,320 pieces of freight, amounting to 4,097 tons; 1 case of personal effects disinfected with formalin. Four emigrants by steamship *Chicago Maru* for Tacoma inspected and passed. The emigrants had been 7 days in quarantine detention.

JAVA.

Cholera in District of Samarang.

Consul Rairden reports, February 28:

Cholera has appeared among the natives in the district of Samarang. During the week ended February 26 there were about 20 cases, with 15 deaths.

MEXICO.

Report from the Superior Board of Health of Mexico.

In compliance with articles 1 and 2 of the International Sanitary Convention held at Washington, October 9–14, 1905, the president of the Superior Board of Health of Mexico reports, April 4, that no case of yellow fever and no death from the said disease were registered in the Mexican Republic during the week ended April 2, and that the prophylactic measures reported under date of September 28, 1908, continue to be carried out.

COATZACOALCOS—Inspection of Vessels.

Acting Assistant Surgeon Thompson reports, March 31:

Week ended March 28. Vessels inspected, March 25, steamship *Montevideo* for New York, Veracruz, and Habana; March 26, steamship *Meltonian* for a port in the United States and with 11 passengers for Mexican ports; March 27, steamship *Californian* for Delaware Breakwater; March 28, steamship *Cayo Soto* for a port in the United States via Veracruz and Tampico.

PERU.

CALLAO—Inspection of Vessels.

Acting Assistant Surgeon Castro-Gutierrez reports, March 24:

Week ended March 5. One vessel with a crew of 85 and 50 cabin and 1 steerage passenger was fumigated. Week ended March 12. Two vessels having an aggregate personnel of 223 in crew and 94 cabin and 42 steerage passengers were fumigated.

PHILIPPINE ISLANDS.

MANILA—Cholera and Smallpox—Inspection of Vessels.

Chief Quarantine Officer Heiser reports, February 23:
Week ended February 19. Two cases of cholera with 2 deaths and 15 cases of smallpox were reported in the city of Manila.

Cholera in the Provinces.

Province.	Cases.	Deaths.
Bataan.....		3
Bohol.....	2	2
Cavite.....	2	2
Misamis.....	2	7
Pampanga.....	19	12
Total.....	25	26

Inspection of vessel.—February 14 the U. S. army transport *Thomas*, with 194 in crew and 210 cabin and 1,230 steerage passengers, granted a bill of health for San Francisco via Nagasaki and Honolulu. Crew and steerage passengers bathed and their effects and baggage disinfected. Vessel partially disinfected. Baggage and cargo inspected, and either passed or disinfected, and so labeled. Manifests viséed. Entire personnel inspected and passed at hour of sailing.

RUSSIA.

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

Acting Assistant Surgeon De Forest at Libau reports, March 21 and 27:

Week ended March 15. One case of plague with 1 death and 7 cases of smallpox were reported at Libau. At Riga, 74 cases of typhus fever with 13 deaths were reported from March 13 to 18.

The steamship *Lituania* sailed for New York March 15 with 841 emigrants and a crew of 96, all of whom had been in Libau for full five days under observation. The steamship *Russia* sails March 29 for New York.

Week ended March 18. At Novotscherkask 2 cases of cholera with 2 deaths were reported. At Libau 2 cases of plague with 2 deaths. At Saratov smallpox was reported epidemic and spreading rapidly. At Riga typhus fever was reported present with 81 cases and 12 deaths, and a total of 278 cases present.

For steamship *Russia*, sailing March 29, 1,231 emigrants were examined. One case of smallpox was found.

TURKEY.

Plague at Jiddah.

The following information was received from the superior council of health at Constantinople:

From March 14 to 19, 11 cases of plague with 10 deaths were reported at Jiddah. The total number of cases from January 5 to date is 37, with 35 deaths.

VENEZUELA.

LA GUAIRA—Inspection of Vessels—Smallpox and Yellow Fever.

Acting Assistant Surgeon Kellogg reports, March 13, 20, and 26:
 Week ended March 12. Vessels inspected: March 7, steamships *Maracaibo* for New York, members of crew 51, passengers taken on at this port 1, and *Cittá di Milano* for Ponce, members of crew 86, passengers in transit 78, taken on at this port 11; March 8, steamship *Caracas* for San Juan, members of crew 70, passengers taken on at this port 4; March 10, steamship *Moltke* for New York, members of crew 322, passengers in transit 345.

Week ended March 19. Vessels inspected: March 13, steamship *Martinique* for Colon, members of crew 145, passengers in transit 388, taken on at this port 26; March 14, schooner *Uranus* for Pascagoula, members of crew 8. Pieces of baggage for Colon inspected 5.

One case of smallpox occurred during the week. Three deaths from "icteroid typhus" were reported. These deaths were undoubtedly due to yellow fever. The cases originated in the interior. The first patient, a man, was brought in from the country sick and the other cases developed in two children who accompanied him.^a

La Guaira has a piped water supply and mosquitoes are not numerous. There is no danger of access of mosquitoes to shipping in this port.

Week ended March 26. Vessels inspected: Steamships *Prins Willem I* for New York, 58 in crew, passengers in transit 12, taken on at this port 11; *Antonio Lopez* for San Juan, 127 in crew, passengers in transit 70, taken on 66; March 21, steamship *Cittá di Torino* for Colon, 85 in crew, passengers in transit 92, taken on 8; March 22, steamship *Philadelphia* for San Juan, 63 in crew, passengers taken on 7; March 23, steamships *Lousianian* for New Orleans, 47 in crew, no passengers, and *La Normandie* for Colon, 178 in crew, passengers in transit 151, taken on 1.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended April 15, 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.
Java:				
Batavia.....	Feb. 20-26.....	1	1	
Samarang.....	Feb. 20-26.....	20	15	
India:				
Bombay.....	Mar. 2-8.....		1	
Calcutta.....	Feb. 13-26.....		75	
Philippine Islands:				
Manila.....	Feb. 13-19.....	2	2	
Provinces—				
Bataan.....	Feb. 13-19.....		3	
Bohol.....	Feb. 13-19.....	2	2	
Cavite.....	Feb. 13-19.....	2	2	
Misamis.....	Feb. 13-19.....	2	7	
Pampanga.....	Feb. 13-19.....	19	12	
Russia:				
Novotscherkask.....	Mar. 18.....	2	2	

^a Doctor Kellogg further reports, April 3, the occurrence of a case of yellow fever in his own family.

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

Reports Received During Week Ended April 15, 1910.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Para.....	Mar. 13-26.....	21	17	
Ecuador:				
Babahoyo.....	Mar. 1-15.....	1	1	
Guayaquil.....	Mar. 1-15.....	20	9	
Venezuela:				
La Guaira.....	Mar. 1-15.....	3	3	

PLAGUE.

Brazil:				
Bahia.....	Feb. 12-18.....	1	1	
Pernambuco.....	Jan. 16-Feb. 15.....		3	
Ecuador:				
Guayaquil.....	Mar. 1-15.....	12	3	
Milagro.....	Mar. 1-15.....	2	2	
Egypt:				
Alexandria.....	Mar. 12.....	1		
Provinces—				
Assiout.....	Mar. 11-16.....	8	4	
Fayoum.....	Mar. 11-15.....	3	3	
Garbleh.....	Mar. 14.....	1		
India:				
Calcutta.....	Feb. 13-26.....		41	
Bombay.....	Mar. 2-8.....		121	
Russia:				
Libau.....	Mar. 19-25.....	6		
Turkey in Asia:				
Jiddah.....	Mar. 14-19.....	11	10	

SMALLPOX.

Abyssinia:				
Adis Ababa.....	Feb. 20-26.....			Present.
Arabia:				
Aden.....	Feb. 15-21.....		1	
Brazil:				
Bahia.....	Feb. 12-18.....	42	31	
Pernambuco.....	Jan. 16-Feb. 15.....		150	
China:				
Hankow.....	Feb. 13-19.....	1		
Nankin.....	Feb. 13-26.....			Prevalent.
Swatow.....	Apr. 6.....			Epidemic.
Egypt, general.....	Feb. 5-18.....	187	37	
Cairo.....	Mar. 5-11.....	3		
France:				
Paris.....	Mar. 13-19.....	10		
Great Britain:				
Halifax.....	Apr. 16-22.....	1		
Greece:				
Athens.....	Feb. 28-Mar. 12.....		2	
Hawaii:				
Honolulu.....	Apr. 9.....	1		On s. s. Manchuria from Orient.
India:				
Bombay.....	Mar. 2-8.....		53	
Calcutta.....	Feb. 13-26.....		5	
Madras.....	Feb. 26-Mar. 4.....		2	
Italy, general.....	Mar. 14-20.....	8		
Naples.....	Mar. 14-20.....	25	1	
Japan:				
Formosa.....	Feb. 20-Mar. 5.....	47	3	
Mexico:				
Agascalientes.....	Mar. 13-26.....		5	
Persia:				
Enzell.....	Jan. 9-Feb. 2.....			Present.
Kasbin.....	Jan. 5-Feb. 3.....			Do.
Laristan.....	Dec. 9-15.....			Do.
Mohammerah.....	Jan. 9-Feb. 2.....			Do.
Philippine Islands:				
Manila.....	Feb. 13-19.....	15		
Portugal:				
Lisbon.....	Mar. 13-19.....	13		

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

Reports Received During Week Ended April 15, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				
Odessa.....	Mar. 6-19.....	87	13	Epidemic.
Riga.....	Mar. 6-19.....	7		
St. Petersburg.....	Feb. 28-Mar. 12.....	95	19	
Saratov.....	Mar. 19-25.....			
Siberia:				
Vladivostok.....	Feb. 6-13.....	1		
Spain:				
Valencia.....	Mar. 13-19.....	2		Present.
Vigo.....	Mar. 13-19.....		1	
Turkey in Asia:				
Bagdad.....	Feb. 20-26.....			
Venezuela:				
La Guaira.....	Mar. 1-15.....	1		

Reports Received from January 1 to April 8, 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. 13-19.....	5		
Germany:				
Heydekrug.....	Nov. 19-Dec. 4.....	2		
Niedrung.....	Nov. 16-22.....	1		
India:				
Bombay.....	Nov. 24-Feb. 22.....		21	
Calcutta.....	Nov. 14-Feb. 12.....		461	
Madras.....	Jan. 1-Feb. 4.....		2	
Moulmine.....	Jan. 22-Feb. 4.....		13	
Negapatam.....	Jan. 30-Feb. 17.....		14	
Rangoon.....	Nov. 14-Feb. 19.....		45	
Java:				
Batavia.....	Nov. 14-Mar. 5.....	388	111	
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-Feb. 12.....	109	95	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. 12.....	215	152	
Bohol.....	Nov. 7-Feb. 12.....	47	28	
Bulacan.....	Nov. 7-Jan. 1.....	32	27	
Camarines.....	Nov. 7-20.....	5	5	
Capiz.....	Nov. 21-Dec. 18.....	3	2	
Cavite.....	Nov. 7-Jan. 22.....	105	76	Jan. 1-Feb. 12, 50 cases from a coasting vessel.
Cebu.....	Nov. 7-Feb. 12.....	333	251	Nov. 20, 1 case on s. s. Yapticco.
Laguna.....	Dec. 19-25.....	4	4	
Leyte.....	Nov. 21-Jan. 15.....	36	32	
Misamis.....	Jan. 16-Feb. 12.....	40	33	
Oriental Negros.....	Nov. 7-20.....	10	5	
Pampanga.....	Nov. 7-Feb. 12.....	182	43	
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. 15.....	27	17	
Don, territory.....	Nov. 28-Jan. 29.....	19	12	
Ekaterinslav, government.....	Nov. 21-Jan. 1.....	23	7	
Jaroslav, government.....	Nov. 21-27.....		1	
Kaluga.....	Dec. 26-Jan. 1.....	1		
Kostroma, government.....	Nov. 21-27.....	3	4	
Kovna, government.....	Nov. 21-27.....	8	3	
Kursk, government.....	Nov. 21-Dec. 11.....	6		
Moscow, government—				
Moscow.....	Nov. 29-Jan. 22.....	256	115	
Pskov, government.....	Nov. 21-27.....	10		

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

Reports Received from January 1 to April 8, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
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		
Siam:				
Bangkok.....	Oct. 28-Feb. 28....	15	15	
Siberia:				
Vladivostok.....	Nov. 16-21.....	1		
Straits Settlements:				
Singapore.....	Dec. 19-Jan. 15....		4	
Sumatra:				
Palembang.....	Sept. 20-Oct. 20....	936	675	
Turkey in Asia:				
Trebizond.....	Nov. 28.....	1		On a vessel from Batum.

YELLOW FEVER.

Brazil:				
Manaos.....	Nov. 21-Mar. 12....		58	
Para.....	Nov. 28-Mar. 6....	84	65	
Ecuador:				
Babahoyo.....	Jan. 1-Feb. 15....	4		
Guayaquil.....	Dec. 1-Feb. 28....	135	41	
Peru:				
Callao.....	Nov. 2-Dec. 2....	1	1	From s. s. Loa.
Mexico:				
Yucatan—				
Merida.....	Dec. 20-21.....	1	1	
Santa Cruz de Bravo.....	Dec. 20.....	1	1	
Panama:				
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.
Trinidad:				
Port of Spain.....	Nov. 28-Dec. 4....	1	1	

PLAGUE.

Arabia:				
Aden.....	Jan. 21-23.....	1	1	From an Austrian mail steamer from Bombay.
Brazil:				
Bahia.....	Nov. 20-Feb. 11....	54	28	
Para.....	Nov. 28-Feb. 19....	12	9	
Pernambuco.....	Oct. 15-Feb. 15....		24	
Rio de Janeiro.....	Nov. 2-Jan. 23....	16	2	
Santos.....	Nov. 1-Dec. 29....	5	3	One case from bark <i>Amazona</i> Dec. 1. Feb. 2 present.
Chile:				
Iquique.....	Feb. 12-24.....			Present in endemic form.
Taltal.....	Jan. 15.....	2	1	
China:				
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-Feb. 28....	225	88	
Milagro.....	Jan. 1-Feb. 28....	21	5	
Egypt:				
Alexandria.....	Nov. 19-Mar. 10....	5	4	
Port Said.....	Nov. 30-Dec. 22....	2	1	
Provinces—				
Assiout.....	Sept. 29-Mar. 10....	57	16	
Behersach.....	Dec. 8-14.....	1		
Beni Souef.....	Dec. 16-Mar. 5....	31	10	
Fayoum.....	Jan. 20-Mar. 10....	6	4	
Galloobeh.....	Jan. 11-Feb. 24....	10	4	
Garbleh.....	Feb. 2-9.....	9	8	
Girgeh.....	Dec. 19-26.....	2	1	
Ghizeh.....	Dec. 19-Jan. 2....	2	2	
Kena.....	Feb. 3-20.....	1	1	
Menouf.....	Nov. 28-Dec. 15....	17	6	
Mineh.....	Dec. 21-Feb. 28....	14	7	

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

Reports Received from January 1 to April 8, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
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-Mar. 1....		397	
Calcutta.....	Nov. 20-Feb. 12....		91	
Kurrachee.....	Dec. 19-Feb. 26....	460	451	
Rangoon.....	Nov. 13-Feb. 13....		34	
Bombay Presidency and Sind.....	Nov. 7-Jan. 22....	11,137	7,821	
Madras Presidency.....	Nov. 7-Jan. 22....	1,011	705	
Bengal.....	Nov. 7-Jan. 22....	8,109	6,509	
United provinces.....	Nov. 7-Jan. 22....	36,037	33,019	
Punjab.....	Nov. 7-Jan. 22....	14,277	11,704	
Burma.....	Nov. 7-Jan. 22....	898	766	
Central provinces, including Berar.....	Nov. 7-Jan. 22....	10,322	8,355	
Coorg.....	Nov. 14-27.....	5	1	
Mysore State.....	Nov. 7-Jan. 22....	1,388	1,020	
Hyderabad State.....	Nov. 7-Jan. 22....	155	126	
Central India.....	Nov. 7-Jan. 22....	850	638	
Rajputana and Ajmer-Merwara.....	Nov. 7-Jan. 22....	4,157	3,674	
Kashmir.....	Nov. 7-Jan. 22....	165	110	
Grand total.....		88,511	74,448	
Indo-China:				
Saigon.....	Nov. 7-Dec. 25....	5	4	
Japan:				
Kobe.....	Nov. 28-Feb. 26....	25	20	
Shikoku Island.....	Jan. 30-Feb. 5....	1		
Paraguay.....	Dec. 10.....		30	In the northern part.
Peru:				
Arequipa, department.....	Dec. 10-16.....	1		
Mollendo.....	Dec. 20-Feb. 25....	6	2	
Callao, department—				
Callao.....	Jan. 17-Feb. 7....	5		
Lambayeque, department.....	Oct. 1-Dec. 16....	39	13	
Libertad, department.....	Nov. 19-Dec. 16....	32	3	
Lima, department.....	Oct. 22-Dec. 16....	10	6	
Lima.....	Feb. 11-25.....	1		In lazaretto from s. s. Ammon.
Pisco.....	Feb. 19.....	1		From s. s. Ammon.
Mauritius.....	Dec. 18-Jan. 27....	120	70	
Russia:				
Astrakan, government.....	Dec. 5-Feb. 27....	134	120	
Naourzali-Tchagil.....	Jan. 17-Feb. 2....	26	26	
Beiskulak.....	Dec. 10-16.....	18	16	
Bodal.....	Mar. 1.....	9		
Dshedda.....	Jan. 7.....			Present.
Libau.....	Dec. 3-9.....	1	1	
Uralsk, district.....	Nov. 25-Jan. 12....	208	202	
Siam:				
Bangkok.....	Oct. 28-Feb. 28....	34	30	Epidemic.
Phrapatom.....	Feb. 15.....			
Straits Settlements:				
Singapore.....	Dec. 25-Jan. 1....	2	2	
Turkey in Asia:				
Beirut.....	Nov. 29-Dec. 14....	3		
Jiddah.....	Jan. 5-Mar. 13....	26	25	
Venezuela:				
Puerto Cabello.....	Feb. 24.....	2		
Zanzibar.....	Nov. 9-17.....	2	2	

SMALLPOX.

Abyssinia:				
Adis Aababa.....	Feb. 19.....			Epidemic.
Algeria, general:				
Algiers.....	Dec. 1-15.....	22		
Bona.....	Nov. 1-Jan. 31....		3	
	Dec. 1-Feb. 28....	12	9	
Argentina:				
Buenos Aires.....	Oct. 1-Dec. 31....		85	
Rosario.....	Dec. 1-31.....		1	

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

Reports Received from January 1 to April 8, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria:				
Bohemia.....	Feb. 20-26.....	1		
Gallcia.....	Jan. 1-Mar. 5.....	12		
Vienna.....	Jan. 9-29.....	2		
Brazil:				
Bahia.....	Nov. 20-Feb. 11... ..	250	164	
Para.....	Jan. 31-Mar. 5.....	1		
Pernambuco.....	Oct. 16-Feb. 15.....		355	
Rio de Janeiro.....	Nov. 2-Feb. 27.....	25	1	
Sao Paulo.....	Nov. 1-21.....		2	
Canada:				
British Columbia—				
Vancouver.....	Jan. 1-31.....	3		
Nova Scotia—				
Halifax.....	Dec. 19-Mar. 26.....	4		
Windsor.....	Dec. 1-Jan. 31.....	40		
Ontario—				
Port Arthur.....	Mar. 11-19.....	5		
Ceylon:				
Colombo.....	Feb. 6-12.....	5		
Chile:				
Antofagasta.....	Jan. 1.....			Present. Feb. 12, 8 cases in lazaretto.
Quillota.....	Nov. 28-Dec. 4.....			Present.
Valparaiso.....	Nov. 20-Jan. 1.....			Do.
China:				
Amoy.....	Nov. 28-Feb. 12.....		8	
Canton.....	Dec. 12-Feb. 23.....	105	9	
Chang Cheun.....	Dec. 11.....			Do.
Chio Be.....	Dec. 11.....			Do.
Hankow.....	Jan. 2-15.....	1	1	Dec. 19-Feb. 26, present among natives.
Hongkong.....	Feb. 5-19.....	8	2	
Shanghai.....	Nov. 1-Mar. 6.....	4	21	Deaths among natives.
Cuba:				
Habana.....	Dec. 3-9.....	1		From s. s. La Navarre.
Ecuador:				
Guayaquill.....	Jan. 1-31.....	3		
Egypt, general	Nov. 5-Jan. 21.....	562	150	
Alexandria.....	Nov. 5-Jan. 21.....	20	19	
Cairo.....	Nov. 26-Mar. 4.....	13	4	
France:				
Nantes.....	Jan. 1-31.....	1		
Paris.....	Dec. 5-Mar. 12.....	115	16	
Germany, general	Dec. 5-Mar. 12.....	85		
Bremen.....	Feb. 27-Mar. 5.....	1		
Konigsberg.....	Dec. 12-Jan. 15.....	2	2	In vicinity.
Great Britain:				
Bristol.....	Feb. 6-Mar. 19.....	3		Mar. 13-19. 1 case on steamship from Bombay.
Greenock.....	Feb. 6-12.....	1		
Hull.....	Jan. 16-22.....	2		
Liverpool.....	Dec. 19-Feb. 5.....	9		
London.....	Nov. 28-Mar. 5.....	21		
Newcastle-on-Tyne.....	Feb. 13-Mar. 5.....	3	1	
Nottingham.....	Jan. 16-26.....	4	1	
Plymouth.....	Nov. 12-18.....		1	
Southampton.....	Nov. 12-18.....	1		
South Shields.....	Feb. 13-19.....	1		
Greece:				
Athens.....	Nov. 22-Feb. 26.....		17	
Hawaii:				
Honolulu.....	Jan. 31-Feb. 4.....	3	1	2 cases Jan. 31 from U. S. S. Washington from Yokohama. 1 case Feb. 2 on s. s. Makura.
India:				
Bombay.....	Nov. 24-Mar. 1.....		249	
Calcutta.....	Nov. 14-Feb. 12.....		10	
Kurrachee.....	Jan. 2-Feb. 26.....	13	2	
Madras.....	Dec. 18-Feb. 18.....		4	
Rangoon.....	Nov. 20-Feb. 19.....		77	
Indo-China:				
Saigon.....	Dec. 7-13.....	1		
Italy, general	Nov. 29-Mar. 13.....	254		
Genoa.....	Dec. 1-Mar. 15.....	20	1	
Milan.....	Jan. 1-16.....	1		
Naples.....	Dec. 6-Mar. 13.....	235	44	

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

Reports Received from January 1 to April 8, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Formosa.....	Feb. 6-19.....	10	4	
Kobe.....	Dec. 12-25.....	1	1	
Java:				
Batavia.....	Dec. 12-Feb. 12...	9	1	
Korea:				
Fusan.....	Feb. 1-12.....	6	1	
Ilmyokyo.....	Feb. 26.....			Present.
Liberia:				
Monrovia.....	Nov. 28-Dec. 4....	6		
Malta:				
Valetta.....	Dec. 12-Jan. 15...	3	1	
Manchuria:				
Tie-ling.....	Feb. 19.....			Do.
Mexico:				
Agascalientes.....	Dec. 12-Mar. 12.....		33	
Chihuahua.....	Dec. 13-Mar. 27.....	16	9	
Guadalajara.....	Jan. 29-Mar. 11.....		6	
Manzanillo.....	Mar. 1-6.....	5		
Mexico.....	Nov. 14-Feb. 19.....		16	
Monterey.....	Nov. 13-Feb. 20.....		2	
Veracruz.....	Feb. 13-19.....	1		
Netherlands:				
Rotterdam.....	Dec. 5-11.....	7		
Persia:				
Arabistan.....	Dec. 6-31.....			Do.
Hamadan.....	Nov. 15-Dec. 31.....			Do.
Kurdistan.....	Dec. 6-31.....			Do.
Sultanabad.....	Nov. 15.....			Do.
Teheran.....	Nov. 1-Dec. 2.....			Do.
Peru:				
Callao.....	Dec. 6-12.....			Do.
Philippine Islands:				
Manila.....	Nov. 14-Feb. 12.....	23		Third quarter, 1909—Cases, 5; deaths, 0.
Portugal:				
Lisbon.....	Dec. 5-Mar. 12.....	222		
Porto Rico, general.	July 1-Dec. 31.....	72	12	
Russia:				
Batoum.....	Dec. 1-31.....	5		
Libau.....	Dec. 6-Mar. 13.....	41		
Moscow.....	Nov. 21-Feb. 19.....	160	53	
Odessa.....	Nov. 21-Mar. 5.....	296	74	
Riga.....	Dec. 5-Mar. 5.....	44		
St. Petersburg.....	Nov. 28-Feb. 26.....	603	182	Oct. 1-Dec. 31, 26 deaths.
Warsaw.....	Oct. 24-Jan. 29.....		213	
Siam:				
Bangkok.....	Nov. 28-Feb. 28....	11	10	
Siberia:				
Vladivostok.....	Jan. 15-Feb. 5.....	5	2	
Spain:				
Almeria.....	Jan. 1-31.....		13	
Barcelona.....	Dec. 14-Mar. 7.....		33	
Cadiz.....	Jan. 1-31.....		1	
Huelva.....	Nov. 1-Feb. 28.....		19	
Madrid.....	Dec. 1-Jan. 31.....		59	
Seville.....	Dec. 1-Feb. 28.....		12	
Tarragona.....	Feb. 20-26.....		1	
Valencia.....	Jan. 9-Mar. 12.....	5		
Vigo.....	Jan. 23-29.....		1	Mar. 5-19, present in vicinity.
Straits Settlements:				
Singapore.....	Jan. 22-Feb. 19.....		7	
Tripoli:				
Tripoli.....	Nov. 14-Dec. 25...	242	24	
Turkey:				
Constantinople.....	Jan. 2-Feb. 6.....		2	
Turkey in Asia:				
Bagdad.....	Nov. 21-Jan. 31.....			Present.
Salonica.....	Jan. 1-31.....		3	
Smyrna.....	Nov. 5-Dec. 31.....		42	
Trebizond.....	Mar. 5.....			Do.
Uruguay:				
Montevideo.....	Oct. 1-Jan. 31.....		94	

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.	Whooping cough.		
Valetta.....	Mar. 12	212,183	91	2						2						
Do.....	Mar. 19		79	2						3						
Venice.....	Feb. 12	183,224	73	5						5					2	
Do.....	Feb. 19		75	4						1					1	
Do.....	Feb. 26		94	3						1		1		1	5	1
Do.....	Mar. 5		66	5						1		1		4	6	
Do.....	Mar. 12		81	6						1		3		2	4	1
Victoria.....	Mar. 26	35,000	9							1						
Vigo.....	Mar. 19	40,000	14	3				1								
Vladivostok.....	Feb. 13	90,162	13	3						1						
Do.....	Feb. 21		10									1				
West-Hartlepool.....	Mar. 19	66,750	21											1		
Winnipeg.....	Mar. 26	122,000	32											1		

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

ALGERIA—*Bone*.—Month of February, 1910. Population, 42,000. Total number of deaths from all causes 100, including scarlet fever 2, diphtheria 1, tuberculosis 14.

AUSTRIA—*Brunn*.—Month of January, 1910. Population, 94,500. Total number of deaths from all causes 196, including typhoid fever 1, scarlet fever 2, diphtheria 2, tuberculosis 41.

CANADA—*Hamilton*.—Month of March, 1910. Population 70,000. Total number of deaths from all causes 127, including typhoid fever 1, measles 5, diphtheria 3, tuberculosis 12.

CHILE—*Punta Arenas*.—Month of February, 1910. Population, 12,000. Total number of deaths from all causes 22, including tuberculosis 2.

FRANCE—*St. Etienne*.—March 1 to 15, 1910. Population, 150,000. Total number of deaths from all causes 157, including typhoid fever 2, measles 1, scarlet fever 1, tuberculosis 26.

GREAT BRITAIN.—Week ended March 12, 1910.

England and Wales.—The deaths registered in 76 great towns having an aggregate estimated population of 16,713,617 correspond to an annual rate of 13.6 per 1,000 of the population.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 22 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 Queenstown at 46.1.

Scotland.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,864,194 correspond to an annual

rate of 17.2 per 1,000 of the population. The total number of deaths from all causes was 622, including typhoid fever 1, measles 46, scarlet fever 5, diphtheria 5.

ITALY—*Milan*.—March 1 to 15, 1910. Population, 900,000. Total number of deaths from all causes 86, including typhoid fever 1, measles 4, scarlet fever 1, diphtheria 3, tuberculosis 75.

Rome.—Four weeks ended December 4, 1909. Population, 559,715. Total number of deaths from all causes 992, including typhoid fever 19, scarlet fever 1, diphtheria 4, tuberculosis 91.

MAURITIUS.—Month of December, 1909. Population, 374,237. Total number of deaths from all causes 1,038, including typhoid fever 3, diphtheria 1, tuberculosis 73, plague 69.

MEXICO—*Tampico*.—March 10 to 20, 1910. Population, 17,279. Total number of deaths from all causes 15, including tuberculosis 3.

TURKS ISLANDS.—March 5 to 19, 1910. Population, 1,800. Total number of deaths from all causes 2. No deaths from contagious diseases.

URUGUAY—*Montevideo*.—Month of January, 1910. Population, 324,459. Total number of deaths from all causes 567, including typhoid fever 7, smallpox 58, measles 3, scarlet fever 2, diphtheria 1, tuberculosis 50.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,

United States Public Health and Marine-Hospital Service.