

PUBLIC HEALTH REPORTS.

STATEMENT OF THE SANITARY CONDITION OF SEATTLE, WASH.

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The city of Seattle is situated on a bay of Puget Sound. The town site rises in a series of hills almost from the water's edge, the highest point in the city being about 643 feet above the sea level. It covers an area of about 55,000 acres, and encircles two fresh-water lakes and skirts the western border of a third.

The climate is characterized by a short, dry summer, with only moderately warm days and cool nights, and a very rainy, but not cold, fall, winter, and spring. The maximum temperature of 1908 was 88° F. on August 18, the minimum 25° F. on February 1, and the mean for the year 50.9° F.

During June, July, August, and September of 1908 the total precipitation was 1.44 inches; during the rest of the year it was 26.81 inches, making a total of 28.25 inches for the year.

It is estimated that the population of Seattle has nearly doubled in the last 3 years. The last United States census (1900) reported Seattle as having 80,671 inhabitants. The city directory estimate for 1908 is 276,000, and this figure is the one that has been used by the local health department in computing the death and birth rates for 1908.

The rapid growth of the city, the phenomenal rise in property values, and the erection of hasty and cheap wooden buildings handicapped the development of sanitation in the city, and it was not until the occurrence of plague in October, 1907, concentrated attention on the city's insanitary condition that the advocates of an improved municipal sanitation were given a hearing. The campaign of cleaning instituted by the United States Public Health and Marine-Hospital Service in the fall of 1907 opened the eyes of the taxpayers to the necessity of an up-to-date health department. The reorganization of the department of health and sanitation was accomplished in March, 1908. Advantage was taken of the more recent advances in municipal sanitation and a department established that ranks with the best in the United States. The drop in the death rate from 9.27 in 1907 to 7.35 in 1908 is claimed to be due to the cleaning campaign begun in the fall of 1907 and the continuance of the work by the reorganized health department. The birth and death rates for the years 1905-1908, inclusive, as given by the health department, are as follows: Average birth rate per 1,000 in 1905, 11.38; 1906, 12.21; 1907, 13.07; 1908, 13.29. Average death rate per 1,000 in 1905, 7.37; 1906, 7.80; 1907, 9.27; 1908, 7.35.

The principal causes of death during 1908 were: Tuberculosis, 218; external violence, 191; organic heart disease, 186; chronic

nephritis, 98; cancer, 94; pneumonia, 93; diarrhea and enteritis (under 2 years), 73; apoplexy, 71; senility, 70; suicide, 68; premature births, 45; typhoid fever, 43. In 1907 there were 91 deaths from typhoid fever. The total number of deaths in 1908 was 1,953, as compared with 2,040 in 1907, notwithstanding an estimated increase of population from 200,000 to 276,000.

ORGANIZATION OF CITY HEALTH DEPARTMENT.

As now constituted, the Seattle department of health and sanitation is headed by a commissioner, appointed by the mayor and confirmed by the council, whose term of office is five years. The present incumbent is Dr. James E. Crichton, who took office March 23, 1908. He is held directly responsible for the conduct of his department and is given ample authority to enforce the city ordinances and regulations relative to health matters. He has a chief clerk, who is his executive officer and who, with 2 assistants, keeps all records and compiles the statistical reports. Each branch of the department is headed by a chief inspector, who is responsible directly to the commissioner for the conduct of his division. The chief medical inspector has charge of contagious diseases, school inspection, city hospitals, dispensary, and laboratories.

The city ordinances require the reporting of all contagious diseases. On the receipt of these reports the health department notifies the superintendent of public schools, the chief of police, and the librarian of the public library of the existence of the disease, giving the name, address, and number of house. Smallpox, scarlet fever, diphtheria, and bubonic plague are placarded and quarantined. Other contagious diseases are placarded and excluded from school, but not quarantined. Quarantine is maintained in scarlet fever until desquamation is complete; in diphtheria, until 2 successive negative cultures, at least 24 hours apart, have been obtained, the latter of which is taken by the health department; in smallpox, until all scabs are replaced by healed surfaces.

The maintenance of quarantine and the disinfection of rooms and houses is under the charge of the chief quarantine officer, who has 3 assistants and 6 guards. Following the recovery or death of any quarantined case the room or house is disinfected, formaldehyde gas being the agent used. This is also done on the death or removal of a case of tuberculosis.

Typhoid fever cases reported are investigated by the sanitary inspectors and an effort is made to ascertain the source of contagion and to prevent the spread of the disease.

CITY HOSPITAL.

The department has recently opened a municipal hospital of 56 beds for the treatment of the indigent sick and emergency cases. In connection with this there is an out-patient dispensary for the treatment of the indigent sick. The number of cases treated at this dispensary during 1908 was 3,232. There are no other free dispensaries in the city. To one who has seen the overworked dispensaries of eastern cities the absence of this class of patients in Seattle is sur-

prising and can only be attributed to the almost complete absence of a pauper class. The number of public hospitals, aside from those under the control of the health department, is small, there being but 5 general hospitals and 1 recently established orthopedic hospital. These hospitals are always full and there is room for a larger and more up-to-date hospital.

The only contagious disease hospital aside from the municipal one for smallpox is a small private hospital. The lack of a proper contagious disease hospital is severely felt and constitutes one of the most serious handicaps to competent health work in Seattle at present. It has been impossible to secure an appropriation for this purpose in the past and there has been much opposition to the establishment of such an institution in the city on the part of property owners.

DISPOSAL OF THE DEAD.

The method of disposal of the dead most commonly used in Seattle is interment in the ground, and funerals are generally held from the various undertaking establishments. There are 8 cemeteries within the city limits and 1 crematory. In addition, there is the King County cemetery in which the pauper dead are buried.

Burial permits are issued from the health office in accordance with the state law on receipt of properly filled-out death certificates. In case of a death in quarantine the body must be sealed in a metallic casket if a public funeral is held. Otherwise the body is wrapped in a sheet soaked in formalin and buried directly from the place of death under the supervision of the quarantine officer.

SCHOOL INSPECTION.

Seattle has 61 schools with an enrollment of 26,489 pupils. A system of medical inspection of the pupils has been established by the health department. Ten physicians and 3 nurses conduct the inspection, each school being visited once a week. A physical record of each child is kept on a card from his entrance to school until he graduates or leaves. Children with contagious diseases are excluded from school and readmitted only on permission of the medical inspector. Vaccination is a compulsory condition of entrance to school. Physical defects or other diseases than contagious ones are noted and a card is sent to the parent or guardian calling attention to the child's condition, and if treatment is instituted a return card is filled out by the attending physician.

While not under the supervision of the health department an important factor in the hygienic care of the children of the city is the establishment in the last two years of public playgrounds by the board of park commissioners. Five distinctive playgrounds, improved and equipped, are now in operation and by the end of the year 1909 Seattle will have 19 playgrounds with an area of 100 acres. Gymnastic apparatus and appliances have been established in several playgrounds and are under the supervision of a corps of physical instructors. In addition to these, Seattle has 14 improved and 10 unimproved parks varying in size from 200 acres to 2 or 3 acres.

SANITARY INSPECTION.

The chief sanitary engineer has charge of the sanitary inspectors, market, milk, meat, and plumbing inspectors, watershed patrol, and the rat trappers and poisoners.

A house to house canvas is made by the sanitary inspectors, who report upon every feature of the sanitary arrangement and condition of each house, such as drainage, sewerage, plumbing, ventilation and storage, and disposal of garbage and rubbish. The abatement of nuisances is effected by verbal or written notice, and by prosecuting the owner or ordering the premises vacated if the notice is disregarded. Permits for the construction and repair of plumbing are issued by the sanitary department. A plumbing inspector makes a preliminary inspection when the plumbing has been roughed in, and a final inspection upon the completion of the work.

The inspection of food in Seattle is carried on under the supervision of the State of Washington. Under the authority, however, of one of the city ordinances, which forbids the adulteration of foods, inspection is made by the city sanitary inspectors of meats, butter, candies, and other foods capable of adulteration or sophistication.

MILK INSPECTION.

Within the past year great improvement has been noted in the character of the milk marketed in Seattle and a greater improvement in the conditions under which it is produced. The state law will require, beginning January, 1910, that market milk shall contain less than 200,000 bacteria per cubic centimeter. During 1908, 65.8 per cent of all market milk in Seattle ran below 30,000 per cubic centimeter, and only 13 per cent went above 100,000 per cubic centimeter. The percentage of fats required is 3.20.

The improvement is to be credited to the reorganized city health and sanitation department. Permits to sell and deliver milk in the city or to ship it into the city are issued by the commissioner of health on application and after an inspection of the plant and conditions under which the milk is handled. Inspections are made 3 times a month of all milk and dairy plants and samples taken and analyzed. Samples are taken from wagons, trains, restaurants, and stores at unstated intervals and examined, and punishment is invoked for any failure to comply with the state laws, city ordinances, and rules and regulations of the health department.

WATER SUPPLY.

The water supply of the city of Seattle is from the Cedar River, the source of which is at an approximate elevation of 6,000 feet above city datum in the Cascade Mountains to the southeast of Seattle. The water is brought about 28 miles to the city by gravity through wood-stave pipes. There are in service about 400 miles of water mains, which serve about 37 per cent of the city. It is expected to extend this service to the entire city during the coming year.

The entire water system is owned and operated by the municipality, and power is obtained from the falls of Cedar River to run the municipi-

pal electric-lighting plant. The average cost to the householder for water is \$1 per month.

The watershed from which this supply is obtained contains about 140 square miles. The city has acquired title to about 12 square miles, and 82 square miles are under condemnation proceedings. This will give the city practical control of the watershed, as the balance of the land is for the most part either incapable of improvement or in the government reserve. The policing of this section is in charge of the city health department, and inspectors patrol the course of the river with a view to the prevention of pollution of the city's water supply.

The daily consumption of water is 66,000,000 gallons.

Weekly samples of the water for bacteriological examination are taken at the outlet of the pipe lines which conduct the water into the city, and a graphic curve of the findings is kept on record in the office of the commissioner of health. The bacterial count of Cedar River water varies between 30 and 4,000 per cubic centimeter, usually running from 200 to 1,000 and reaching the highest point after the beginning of the rainy season in the fall.

THE BULLETIN.

A résumé of the work of the health department would be incomplete without a reference to the Bulletin of the Department of Health and Sanitation. This is an 8-page monthly publication issued by the health department and distributed gratis. It contains in addition to the vital statistics for the previous month several articles written for the laity on popular medical or hygienic subjects, and is of undoubted educational value.

DISPOSAL OF WASTE.

The city of Seattle produces about 200 tons of waste daily, including ashes, manure, rubbish, table refuse, etc. The ultimate disposal of this waste is a problem not as yet solved by the municipality. The waste is collected by private wagons, licensed by the city, the householder paying a weekly sum for the service.

In December, 1907, the city completed the erection of a garbage incinerator of the Meldrum type at a total cost, exclusive of grounds, of \$36,134.50. This incinerator has a rated capacity of 67 tons of 2,000 pounds for 24 hours, and uses no fuel other than that contained in the refuse. During the past year this incinerator has burned on an average 70 tons daily, at an average cost of 50 cents per ton. Of the remainder of the city's waste it is estimated that about 70 tons are dumped on the tide flats and burned in the open, and that the balance is disposed of by private burning, dumping into Puget Sound, or on vacant lots.

The present system of garbage collection is unsatisfactory, many outlying parts of the city being unvisited by the collectors. The city health department hopes to have established additional incinerators to dispose of all the city's waste and also some system of municipal collection in the near future.

SEWAGE DISPOSAL.

The sewerage system of the city of Seattle is known as the "combined gravity system." That is, one line of sewer pipe is laid in street or alley, to receive drainage both from private premises and from the streets, and flows by gravity to its outlet, which is in deep water in Puget Sound, far enough from shore not to create a nuisance at the shore line. This system has proven very satisfactory so far, there being no trouble from flotation and its deposit upon the shores of the Sound.

The city of Seattle has an area of about 60 square miles, of which about 22½ per cent is being served by sewers. There are 245 miles of sewers in the city, which have cost to November 1, 1909, \$3,237,619.76. When a sewer has been laid in any street or alley and accepted by the city, it becomes incumbent upon all abutting property to connect therewith, as provided by city ordinance. Where there is city water service, but no sewer near enough for direct connection, owners are required to install proper cesspool or septic tank to receive the waste matter from their houses. In parts of the city where there is no water service vault toilets are allowed.

LABORATORIES.

The city health department maintains 2 laboratories, one chemical and one bacteriological. In the first are conducted milk, water, and food analyses, while the latter conducts bacteriological examinations of milk and water and tests for diphtheria, tuberculosis, and typhoid fever. In addition, the city maintains the plague laboratory conducted by the United States Public Health and Marine-Hospital Service for the examination of rodents suspected of having bubonic plague.

Three verified human cases of bubonic plague occurred in the latter months of 1907. A vigorous antiplague campaign was inaugurated under the direction of the United States Public Health and Marine-Hospital Service, which campaign was later taken over by the municipal authorities with the exception of the fumigation of ships and the bacteriological examinations. The last plague-infected rat was delivered in September, 1908.

Seattle was confronted by certain special difficulties in its antiplague work. Owing to the newness and rapid growth of the city, the cheapness of timber, and the high wages of labor, lumber is extensively used for building purposes, and the wholesale district is largely built up with wooden structures. Back of the wharves were the railroad tracks, streets, and buildings resting upon piles high in the air above the water and a tide-washed shore line with accumulated rubbish. Along the water front to the south the brush bulkheads harbored immense numbers of rats.

These and other insanitary conditions were greatly mitigated during the antiplague campaign. There is still maintained a vigorous system of inspection with a view to the removal of accumulated rubbish, etc. An unremitting warfare is waged on the rats by means of trappers, poisoners, and bounty. For the bacteriological examination of rats the United States Public Health and Marine-Hospital Service provides a commissioned officer with laboratory equipment.

During the fiscal year ended June 30, 1909, 48,652 rats were examined in this laboratory. This laboratory work is about to be resumed after a temporary suspension owing to the necessity of evacuating the building on account of regrade work.

Owing to the ever-present danger of an invasion of bubonic plague, this or a similar line of work should be a part of public-health routine in Seattle and all other Pacific seaports.

Seattle has a frontage on tide water of about 5 miles. The greater part of this is occupied by wharves. These have been built on piling out into deep water. The wretched condition of this water front from a sanitary standpoint has aroused interest in the project of building a sea wall and filling in to street level the low-lying ground now hidden beneath wooden roadways and buildings erected on piling. This promises not only to be a very expensive proposition, but a long-delayed one on account of questions of authority, responsibility, and title to shore line.

The sanitary condition of Seattle, judged from the statistical tables and the amount of sickness, is very good, but in forming any judgment of this sort the character of the population must be taken into consideration. The city is young and rapidly growing. The people who come here are in some measure of the pioneer class; they are, as a rule, young and in good physical condition.

The residences are frame for the most part and, building lots being large, each house is separate from its neighbor and has ample air space and light. The hilly nature of the city, while it lends variety to the landscape and simplifies the disposal of sewage, is undoubtedly a causative factor in the high death rate from organic heart disease.

Sanitary questions demanding immediate attention are the collection and disposal of garbage and the establishment of a contagious-disease hospital. As these questions involve an expenditure of extra money they will, under the city charter, have to be voted upon by the citizens after the municipal authorities have arrived at some definite plan of solving these questions.

UNITED STATES.

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

PELLAGRA.

CALIFORNIA.

Surgeon Blue reports, November 27:

Two well-defined cases of pellagra have been found among the inmates of the Alameda County Infirmiry at San Leandro, Cal. Investigation of the Relief Home in San Francisco for pellagra did not reveal the disease in positive form among the 1,300 people therein.

The cases examined in the Alameda Infirmiry presented characteristic lesions. One of these, an Irishman by birth, was stricken 30 years ago. He was a resident of this State at the time. The other patient, a Cape de Verde islander, has resided in California for 25 years, but can not give an accurate account of himself.

Surgeon Brooks reports, November 30:

The medical superintendent of the Southern California State Hospital has informed me that there have been but 2 cases of pellagra, diagnosed as such, which have come under his observation; both of these were in the hospital and both were females. Of the 2 cases, 1 was born in Iowa and the other was Canadian by birth, but had lived in the Middle States. Both were housewives. One of these cases proved rapidly fatal. The other is now convalescing.

Plague-prevention work in California.

Surgeon Blue reports:

SAN FRANCISCO, CAL.

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

Last case of rodent plague: Trapped, October 23, 1908.

Week ended November 27.

Premises inspected.....	185
Houses destroyed.....	3
Buildings condemned.....	7
Nuisances abated.....	38
Poisons placed.....	5,730
Rats trapped.....	1,743
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Rats identified:	
Mus norvegicus.....	1,340
Mus rattus.....	61
Mus musculus.....	294
Mus alexandrinus.....	48
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Total.....	1,743
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Rats examined bacteriologically.....	1,107
Rats found infected with <i>B. pestis</i>	0
Total number of rats found infected to date.....	398

OAKLAND, CAL.

Last case of human plague: Sickened, October 26, 1909.

Last case of rodent plague: Found, December 1, 1908.

Week ended November 27.

Dead inspected.....	27
Plague.....	0
Necropsies held.....	2
Rats found dead.....	27
Rats trapped.....	680
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Rats identified:	
Mus norvegicus.....	670
Mus rattus.....	2
Mus musculus.....	35
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Total.....	707
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Rats examined bacteriologically.....	672
Rats found infected with <i>B. pestis</i>	0

ALAMEDA COUNTY, CAL. (EXCLUSIVE OF OAKLAND).

Last case of human plague: Sickened, 2 miles southwest of Sunol, September 24, 1909.

Last case of rodent plague: Found, October 31, 1909.

Week ended November 27.

Dead inspected.....	54
Plague.....	0
Necropsies held.....	2
Total number of ground squirrels found infected to date.....	54
Total number of wood rats found infected to date.....	1

CONTRA COSTA COUNTY, CAL. (EXCLUSIVE OF POINT RICHMOND).

Last case of human plague: Sickened, July 21, 1908.

Last case of rodent plague: Found, September 28, 1909.

Week ended November 27.

Dead inspected.....	1
Plague.....	0
Total number of ground squirrels found infected to date.....	240

FRESNO COUNTY, CAL.

No record of human or rodent plague in Fresno County.

Week ended November 27.

Ranches inspected.....	18
Ground squirrels shot.....	280
Ground squirrels found dead.....	36
Chipmunks shot.....	2
Ground squirrels examined bacteriologically.....	300
Ground squirrels found infected with <i>B. pestis</i>	0
Chipmunks examined bacteriologically.....	2
Chipmunks found infected with <i>B. pestis</i>	0

KERN COUNTY, CAL.

No record of human or rodent plague in Kern County.

Week ended November 27.

Ranches inspected.....	9
Ground squirrels shot.....	86
Ground squirrels examined bacteriologically.....	82
Ground squirrels found infected with <i>B. pestis</i>	0

MERCED COUNTY, CAL.

No record of human or rodent plague in Merced County.

Week ended November 27.

Ranches inspected.....	41
Ground squirrels shot.....	562
Rabbits shot.....	8
Ground squirrels examined bacteriologically.....	550
Ground squirrels found infected with <i>B. pestis</i>	0
Rabbits examined bacteriologically.....	6
Rabbits found infected with <i>B. pestis</i>	0

MONTEREY COUNTY, CAL.

No record of human or rodent plague in Monterey County.

Week ended November 27.

Ranches inspected.....	44
Ground squirrels shot.....	237
Rabbits shot.....	1
Ground squirrels examined bacteriologically.....	230
Ground squirrels found infected with <i>B. pestis</i>	0
Rabbits examined bacteriologically.....	1
Rabbits found infected with <i>B. pestis</i>	0

SAN JOAQUIN COUNTY, CAL.

No record of human or rodent plague in San Joaquin County.

Week ended November 27.

Ranches inspected.....	12
Ground squirrels shot.....	83
Ground squirrels examined bacteriologically.....	80
Ground squirrels found infected with <i>B. pestis</i>	0

SAN LUIS OBISPO COUNTY, CAL.

No record of human or rodent plague in San Luis Obispo County.

Week ended November 27.

Ranches inspected.....	33
Ground squirrels shot.....	234
Ground squirrels examined bacteriologically.....	226
Ground squirrels found infected with <i>B. pestis</i>	0

SANTA BARBARA COUNTY, CAL.

No record of human or rodent plague in Santa Barbara County.

Week ended November 27.

Ranches inspected.....	23
Ground squirrels shot.....	162
Ground squirrels examined bacteriologically.....	154
Ground squirrels found infected with <i>B. pestis</i>	0

SANTA CRUZ COUNTY, CAL.

Last case of rodent plague: Found, November 6, 1909.

Week ended November 27.

Ranches inspected.....	18
Ground squirrels shot.....	52
Ground squirrels examined bacteriologically.....	50
Ground squirrels found infected with <i>B. pestis</i>	0
Total number of ground squirrels found infected to date.....	1

TULARE COUNTY, CAL.

No record of human or rodent plague in Tulare County.

Week ended November 27.

Ranches inspected.....	40
Ground squirrels shot.....	52
Rabbits shot.....	2
Ground squirrels examined bacteriologically.....	50
Ground squirrels infected with <i>B. pestis</i>	0
Rabbits examined bacteriologically.....	2
Rabbits found infected with <i>B. pestis</i>	0

VENTURA COUNTY, CAL.

No record of human or rodent plague in Ventura County.

Week ended November 27.

Ranches inspected.....	18
Ground squirrels shot.....	36
Ground squirrels examined bacteriologically.....	33
Ground squirrels found infected with <i>B. pestis</i>	0

Smallpox in the United States.

This table includes cases and deaths reported to the Surgeon-General of the Public Health and Marine-Hospital Service from June 26 to December 17, 1909. For reports received from December 25, 1908, to June 25, 1909, see Public Health Reports for June 25, 1909. In accordance with custom the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	Nov. 14-20.....	1		
Mobile.....	Oct. 17-23.....	1		
Montgomery.....	Nov. 14-27.....	35		
Total for State.....		37		
California, general.				
Berkeley.....	Aug. 1-31.....		2	
Hobart Mills.....	July 25-31.....	1		
Sacramento.....	Apr. 1-30.....	1		
San Francisco.....	June 6-Oct. 23.....	2		
Truckee.....	June 6-Nov. 27.....	4		
	Mar. 23.....	3		
Total for State.....		11	2	
Colorado:				
Adams County.....	Apr. 1-June 30.....	5		
Boulder County.....	Apr. 1-June 30.....	8		
Clear Creek County.....	Apr. 1-June 30.....	1		
Denver County— Denver.....	Apr. 1-June 30.....	10		
El Paso County.....	Apr. 1-June 30.....	3		
Fremont County.....	Apr. 1-June 30.....	13		
Grand County.....	Apr. 1-June 30.....	1		
Huerfano County.....	Apr. 1-June 30.....	24		
Larimer County.....	Apr. 1-June 30.....	4		
Las Animas County.....	Apr. 1-June 30.....	1		
Mesa County.....	Apr. 1-June 30.....	20		
Montrose County.....	Apr. 1-June 30.....	2		
Morgan County.....	Apr. 1-June 30.....	17		
Otero County.....	Apr. 1-June 30.....	1		
Pueblo County.....	Apr. 1-June 30.....	8		
Rio Grande County.....	Apr. 1-June 30.....	1		
San Miguel County.....	Apr. 1-June 30.....	4		
Weld County.....	Apr. 1-June 30.....	1		
Total for State.....		124		
Connecticut:				
Bridgeport.....	Oct. 2.....	1		
New Haven.....	May 1-31.....	1		
Stamford.....	Nov. 1-30.....	1		
Total for State.....		3		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks
District of Columbia:				
Washington.....	Aug. 8–Nov. 20....	10		
Total for District.....		10		
Florida:				
Jacksonville.....	Nov. 14–20....	1		
Total for State.....		1		
Georgia:				
Macon.....	June 14–Nov. 23...	30		
Total for State.....		30		
Illinois:				
Alexander County—				
Cairo.....	May 1–June 30....	25		
Bureau County.....	Aug. 1–31....	1		
Champaign County.....	Apr. 1–May 31....	25		
Christian County.....	Apr. 1–May 31....	35		
Clay County.....	Apr. 1–30....	1		
Clinton County.....	Apr. 1–June 30....	7		
Cook County—				
Chicago.....	June 20–Nov. 13....	10		
Dewitt County.....	May 1–31....	7		
Edwards County.....	Apr. 1–May 31....	3		
Effingham County.....	Apr. 1–30....	2		
Fayette County.....	May 1–31....	2		
Franklin County.....	Apr. 1–May 31....	2		
Fulton County.....	Apr. 1–June 30....			Present.
Gallatin County.....	Apr. 1–May 31....	16		
Iroquois County.....	May 1–31....	1		
Jackson County.....	Apr. 1–May 31....	14		
Murphysboro.....	Apr. 1–May 31....	40		
Knox County.....	Apr. 1–30....	8		
Lake County.....	Apr. 1–July 31....	14		
Lasalle County.....	Apr. 1–30....	3		
McDonough County.....	Apr. 1–30....	25		
McHenry County—				
Marengo.....	May 1–June 30....	97		
Macoupin County.....	Apr. 1–May 31....	6		
McLean County.....	June 1–30....	1		
Madison County.....	May 1–June 30....	2		
Marion County.....	Apr. 1–June 30....	14		
Menard County.....	Aug. 1–31....	5		
Massac County—				
Metropolis.....	Apr. 1–May 31....	29		
Montgomery County	May 1–June 30....	2		
Peoria County.....	Apr. 1–June 30....	13		
Peoria.....	June 1–Sept. 30....	54		
Perry County.....	Apr. 1–Aug. 31....	18		
Pulaski County.....	May 1–31....	5		
Rock Island County—				
Moline.....	June 1–July 31....	2		
St. Clair County—				
East St. Louis.....	May 1–June 30....	11		
Saline County.....	May 1–31....	30		
Sangamon County.....	Apr. 1–30....	1		
Springfield.....	May 29–July 9....	3		
Schuyler County.....	May 1–31....	1		
Shelby County.....	Apr. 1–July 31....	3		
Stephenson County.....	May 1–31....	4		
Tazewell County.....	May 1–31....	5		
Pekin.....	Apr. 1–Aug. 31....	78		
Union County.....	Apr. 1–May 31....	5		
Vermilion County.....	Apr. 1–May 31....	2		
Danville.....	June 14–Nov. 6....	15		
Warren County.....	June 1–July 31....	3		
Will County—				
Joliet.....	July 1–31....	1		
Williamson County.....	Apr. 1–Aug. 31....	17		
Winnebago County.....	June 1–30....	1		
Woodford County.....	Apr. 1–July 31....	25		
Total for State.....		694		
Indiana:				
Adams County.....	Sept. 1–30....	3		
Allen County.....	May 1–Sept. 30....	26		
Fort Wayne.....	June 6–Nov. 13....	194		
Carroll County.....	June 1–30....	1		
Clay County.....	June 1–30....	4		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana—Continued.				
Dearborn County.....	May 1-31.....	4		
Dekalb County.....	June 1-30.....	1		
Delaware County.....	May 1-31.....	1		
Muncie.....	June 20-Nov. 20.....	15		
Fayette County.....	June 1-30.....	1		
Fountain County.....	July 1-31.....	1	1	
Gibson County.....	May 1-31.....	5		
Grant County.....	May 1-Sept. 30.....	15		
Marion.....	Nov. 28-Dec. 4.....	1		
Greene County.....	June 1-Sept. 30.....	15	1	
Huntington County.....	Sept. 1-30.....	1		
Johnson County.....	Sept. 1-30.....	2		
Marion County—				
Indianapolis.....	June 14-Dec. 4.....	5		
Monroe County.....	Sept. 1-30.....	1		
Montgomery County.....	May 1-June 30.....	9		
Parke County.....	May 1-31.....	1		
Pulaski County.....	May 1-31.....	2		
St. Joseph County.....	June 1-30.....	4		
South Bend.....	June 13-Dec. 6.....	9		
Tipton County.....	July 1-31.....	1		
Vanderburg County.....	May 1-Sept. 30.....	27		
Vermilion County.....	May 1-July 31.....	43		
Vigo County.....	June 1-30.....	4		
Wayne County.....	May 1-July 31.....	15	1	
White County.....	May 1-31.....	2		
Whitley County.....	Sept. 1-30.....	1		
Total for State.....		414	3	
Iowa:				
Cedar Rapids.....	July 1-Aug. 31.....	2		
Keokuk.....	May 1-31.....	3		
Ottumwa.....	June 1-30.....	1		
Total for State.....		6		
Kansas:				
Allen County.....	May 1-31.....	5		
Atchison County.....	June 1-July 31.....	8		
Brown County.....	June 1-30.....	1		
Chautauqua County.....	May 1-31.....	3		
Cherokee County.....	May 1-31.....	1		
Coffey County.....	May 1-31.....	1		
Comanche County.....	June 1-30.....	3		
Cowley County.....	May 1-31.....	14		
Crawford County.....	May 1-31.....	20		
Pittsburg.....	May 1-June 30.....	4		
Decatur County.....	June 1-30.....	12	1	
Dickinson County.....	May 1-July 31.....	3		
Poniphan County.....	May 1-Aug. 31.....	29		
Douglas County.....	May 1-31.....	1		
Elk County.....	May 1-31.....	1		
Ellsworth County.....	June 1-30.....	1		
Franklin County.....	May 1-31.....	5		
Geary County.....	May 1-July 31.....	5		
Graham County.....	June 1-30.....	6		
Greenwood County.....	May 1-31.....	3		
Jackson County.....	May 1-June 30.....	24		
Jefferson County.....	May 1-31.....	2		
Jewell County.....	May 1-31.....	6		
Kearny County.....	May 1-31.....	1		
Kingman County.....	July 1-31.....	2		
Labette County—				
Parsons.....	May 1-Sept. 30.....	11		
Lincoln County.....	July 1-31.....	4		
Lyon County.....	May 1-July 31.....	28		
McPherson County.....	July 1-31.....	1		
Marion County.....	July 1-31.....	1		
Marshall County.....	May 1-Aug. 31.....	230		
Montgomery County.....	May 1-July 31.....	10		
Coffeyville.....	July 1-31.....	11		
Nemaha County.....	June 1-July 31.....	11		
Osage County.....	May 1-June 30.....	32		
Osborne County.....	May 1-June 30.....	11		
Ottawa County.....	May 1-31.....	3		
Phillips County.....	May 1-31.....	1		
Pottawatomie County.....	May 1-July 31.....	15		
Pratt County.....	May 1-July 31.....	6		
Rawlins County.....	May 1-31.....	13		
Republic County.....	June 1-30.....	5		
Riley County.....	May 1-June 30.....	8		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Rooks County.....	July 1-31.....	1		
Rush County.....	June 1-30.....	2		
Russell County.....	June 1-30.....	1		
Saline County.....	May 1-31.....	2		
Scott County.....	Aug. 1-Sept. 30....	2		
Sedgwick County.....	May 1-31.....	11		
Wichita.....	July 11-Aug. 7.....	5		
Shawnee County.....	May 1-Aug. 31.....	13		
Topeka.....	May 1-Sept. 30....	47		
Smith County.....	May 1-31.....	11		
Sumner County.....	May 1-31.....	3		
Thomas County.....	May 1-31.....	1		
Wabaunsee County.....	May 1-31.....	6		
Wyandotte County.....	May 1-31.....	4		
Kansas City.....	June 13-Nov. 20....	15		
Total for State.....		676	1	
Kentucky:				
Covington.....	June 13-July 3.....	5		
Lexington.....	June 20-Oct. 30....	17		
Newport.....	June 14-July 25....	4		
Paducah.....	June 13-26.....	3		
Total for State.....		29		
Louisiana:				
New Orleans.....	June 13-Dec. 4.....	15		
Total for State.....		15		
Maryland, general.....				
	Mar. 1-Apr. 30.....	9		
Total for State.....		9		
Massachusetts:				
Boston.....	Sept. 12-Nov. 13....	4	1	
Lawrence.....	June 27-July 3.....	1		
Total for State.....		5	1	
Michigan:				
Antrim County.....	Oct. 1-31.....	2		
Arenac County.....	Oct. 1-31.....	16		
Baraga County.....	Oct. 1-31.....	1		
Bay County—				
Bay City.....	June 1-Dec. 4.....	8		
Berrien County.....	July 1-Oct. 31.....	11		
Branch County.....	July 1-Sept. 30....	7		
Calhoun County.....	June 1-30.....	1		
Battle Creek.....	Oct. 31-Nov. 6.....	2		
Cass County.....	July 1-Aug. 31.....	8	1	
Cheboygan County.....	July 1-31.....	2		
Chippewa County.....	May 1-Oct. 31.....	3		
Clinton County.....	Aug. 1-31.....	1		
Delta County.....	June 1-30.....	1		
Eaton County.....	May 1-Sept. 30....	49		
Emmet County.....	June 1-July 31.....	2		
Genesee County.....	July 1-31.....	1		
Gogebic County.....	Aug. 1-31.....	1		
Houghton County.....	May 1-Oct. 31.....	17		
Huron County.....	June 1-30.....	1		
Ingham County.....	May 1-Oct. 31.....	3		
Ionia County.....	Oct. 1-31.....	21		
Jackson County.....	May 1-31.....	1		
Kalamazoo County—				
Kalamazoo.....	July 4-24.....	2		
Kent County—				
Grand Rapids.....	June 6-Oct. 31.....	3	1	
Lapeer County.....	June 1-30.....	1		
Livingston County.....	Aug. 1-Oct. 31.....	45		
Marquette County.....	May 1-Oct. 31.....	10		
Menominee County.....	July 1-31.....	4		
Montcalm County.....	Oct. 1-31.....	6		
Muskegon County.....	May 1-Sept. 30....	18		
Newaygo County.....	June 1-30.....	1		
Oceana County.....	May 1-31.....	1		
Ontonagon County.....	Oct. 1-31.....	1		
Ottawa County.....	May 1-July 31.....	8		
Saginaw County.....	May 1-July 31.....	20		
Saginaw.....	July 25-Oct. 31....	4		
St. Clair County.....	May 1-June 30....	4		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Sanilac County	Oct. 1-31	1		
Schoolcraft County	July 1-31	4		
Manistique	June 1-Aug. 31	41		
Tuscola County	May 1-31	4		
Wayne County	Oct. 1-31	1		
Detroit	May 1-July 31	2		
Total for State		337	2	
Minnesota, general.				
	Mar. 1-July 31		4	
Becker County	June 15-21	5		
Bigstone County	June 8-14	1		
Carver County	July 6-Aug. 16	6		
Clay County	July 28-Aug. 2	1		
Cottonwood County	July 1-31	1		
Crawford County	Aug. 10-16	1		
Faribault County	June 7-14	2		
Hennepin County—				
Minneapolis	May 1-June 30	39		
Hubbard County	May 25-31	1		
Itasca County	May 25-June 14	7		
Lesueur County	June 1-7	1		
McLeod County	May 25-July 19	2		
Marshall County	June 8-July 5	6		
Meeker County	May 25-31	5		
Morrison County	June 21-Aug. 16	2		
Nobles County	May 25-June 21	2		
Olmsted County	June 8-14	2		
Pine County	May 25-31	1		
Ramsey County—				
St. Paul	Apr. 1-May 31	10		
Redwood County	June 1-7	1		
Rock County	June 1-7	1		
St. Louis County	May 25-June 21	3		
Duluth	June 10-Dec. 4	26		
Sibley County	June 22-July 19	4		
Stearns County—				
St. Cloud	July 13-19	1		
Steele County	May 25-June 21	3		
Swift County	July 20-26	1		
Wabasha County	May 25-31	2		
Wadena County	May 25-July 19	11		
Waseca County	May 25-31	8		
Wright County	June 15-Aug. 16	10		
Total for State		166	4	
Mississippi:				
Brookhaven	Nov. 2-8	1		
Holly Springs	Nov. 1-6	3		
Natchez	Nov. 22-27	5		
Total for State		9		
Missouri:				
Kansas City	June 13-26	2		
St. Joseph	May 30-July 24	19		
St. Louis	June 20-Dec. 4	13		
Total for State		34		
Montana:				
Carbon County	June 1-July 31	6		
Cascade County—				
Great Falls	June 1-30	1		
Chouteau County	June 1-30	1		
Custer County	June 1-30	1		
Dawson County	May 1-Sept. 30	7		
Deerlodge County	May 1-31	1		
Fergus County	June 1-30	1		
Flathead County	May 1-31	4		
Gallatin County	May 1-31	4		
Jefferson County	May 1-31	2		
Lewis and Clark County—				
Helena	May 1-31	1		
Missoula County—				
Missoula	June 1-Aug. 31	6		
Park County	May 1-June 30	21		
Livingston	May 1-Aug. 31	14		
Ravalli County—				
Stevensville	Nov. 21-27	1		
Sanders County	May 1-31	1		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Montana—Continued.				
Silverbow County.....	June 1—Sept. 30....	25		
Butte.....	June 11—Nov. 11....	62		
Teton County.....	May 1—31.....	1		
Valley County.....	May 1—31.....	1		
Yellowstone County.....	May 1—July 31.....	7		
Total for State.....		168		
Nebraska:				
Lincoln.....	May 1—July 31.....	34		
Total for State.....		34		
New Jersey:				
Newark.....	Sept. 19—25.....	1		
Total for State.....		1		
New York, general.....				
Buffalo.....	May 1—Aug. 31.....	462		
	Oct. 3—Nov. 13....	4		
Total for State.....		466		
North Carolina:				
Beaufort County.....	June 1—30.....	1		
Bladen County.....	Apr. 1—30.....	5		
Buncombe County.....	Apr. 1—30.....	1		
Caldwell County.....	Apr. 1—June 30....	19		
Camden County.....	Apr. 1—June 30....	70		
Carteret County.....	Apr. 1—30.....	1		
Craven County.....	Apr. 1—Aug. 31....	10		
Cumberland County.....	May 1—Aug. 31....	2		
Davie County.....	Aug. 1—31.....	1		
Duplin County.....	Apr. 1—Aug. 31....	35		
Harnett County.....	June 1—July 31....	7		
Johnston County.....	Apr. 1—July 31....	3		
Jones County.....	Aug. 1—31.....	8		
Lee County.....	Apr. 1—30.....	6		
Lenoir County.....	July 1—Aug. 31....	6		
Madison County.....	May 1—June 30....	7		
Mecklenburg County.....	May 1—31.....	2		
Charlotte.....	Sept. 26—Dec. 4....	25		
Mitchell County.....	July 1—31.....	8		Apr. 1-30, present.
Montgomery County.....	July 1—31.....	10		
Nash County.....	June 1—30.....	1		
Onslow County.....	Apr. 1—30.....	2		
Pamlico County.....	May 1—31.....	4		
Pasquotank County.....	Apr. 1—May 31....	15		
Pitt County.....	Apr. 1—June 30....	17		
Robeson County.....	June 1—July 31....	14		
Rowan County.....	May 1—July 31....	17		
Sampson County.....	Apr. 1—June 30....	51		In extreme northern part.
Transylvania County.....	May 1—31.....	5		
Wake County.....	Apr. 1—Aug. 31....	3		
Watauga County.....	June 1—Aug. 31....	38		
Wayne County.....	May 1—31.....	14		
Wilson County.....	Apr. 1—30.....	1		
Yancey County.....	Apr. 1—Aug. 31....	10		
Total for State.....		419		
North Dakota:				
Bottineau County.....	May 1—July 31....	2		
Cass County.....	July 1—31.....	2		
Emmons County.....	July 1—31.....	3		
Grand Forks County.....	May 1—Sept. 30....	15		
Henry County.....	Aug. 1—31.....	5		
Lamoure County.....	May 1—June 30....	3		
McHenry County.....	May 1—31.....	1		
Stutsman County.....	June 1—July 31....	15		
Walsh County.....	June 1—30.....	2		
Ward County.....	May 1—July 31....	11		
Total for State.....		59		
Ohio:				
Cincinnati.....	June 12—Oct. 9....	5		
Columbus.....	Sept. 12—18.....	1		
Dayton.....	July 18—Dec. 4....	27	2	
Springfield.....	Oct. 10—30.....	15		
Toledo.....	July 25—Aug. 7....	2		
Total for State.....		50	2	

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma:				
Coal County.....	Aug. 1-31.....	3		
Ellis County.....	Aug. 1-31.....	1		
Key County.....	Aug. 1-31.....	5		
Kiowa County.....	Aug. 1-31.....	4		
Muskogee County.....	Aug. 1-31.....	1		
Oklahoma County— Oklahoma.....	Apr. 3-Aug. 21.....	51	1	
Washington County.....	Aug. 1-31.....	1		
Total for State.....		66	1	
Oregon:				
Cass County.....	July 1-31.....	8		
Clackamas County.....	May 1-June 30.....	3		
Coccos County.....	June 1-30.....	1		
Lane County.....	July 1-31.....	1		
Linn County.....	July 1-31.....	2		
Marion County.....	May 1-Aug. 31.....	14		
Multnomah County.....	May 1-June 30.....	3		
Portland.....	Apr. 1-Sept. 30.....	48		
Tillamook County.....	July 1-31.....	1		
Umatilla County.....	June 1-30.....	2		
Union County.....	June 1-30.....	1		
Washington County.....	May 1-June 30.....	14		
Yamhill County.....	June 1-Aug. 31.....	4		
Total for State.....		102		
Pennsylvania:				
Philadelphia.....	July 10-24.....	4		
Total for State.....		4		
Tennessee:				
Knoxville.....	June 20-Aug. 21.....	7		
Nashville.....	Nov. 28-Dec. 4.....	1		
Memphis.....	Nov. 1-27.....	5		
Total for State.....		13		
Texas:				
Anderson County.....	Aug. 1-31.....	5		
Archer County.....	June 1-30.....	1		
Baylor County.....	June 1-30.....	22		
Bee County.....	June 1-30.....	6		
Bexar County.....	June 1-July 31.....	1	1	
San Antonio.....	June 13-Oct. 31.....	14		
Bowie County.....	June 1-30.....	7		
Cameron County.....	June 1-30.....	1		
Cherokee County.....	June 1-30.....	1		
Childress County.....	June 1-30.....	4		
Concho County.....	Aug. 1-31.....	2		
Ellis County.....	May 1-June 30.....	2		
Galveston County.....	June 1-30.....	1		
Galveston.....	June 19-25.....	1		
Gonzales County.....	May 1-June 30.....	6	2	
Grayson County.....	June 1-30.....	9		
Harris County.....	June 1-30.....	12		
Houston.....	Mar. 28-June 19.....	17		
Harrison County.....	June 1-Aug. 31.....	17		
Hays County.....	July 1-31.....	8		
Henderson County.....	June 1-July 31.....	30		
Jefferson County.....	May 1-June 30.....	3		
Jones County.....	June 1-30.....	2		
Kinney County.....	June 1-30.....	1	1	
Lamar County.....	June 1-Aug. 31.....	27		
Matagorda County.....	May 1-Aug. 31.....	11		
McLennan County.....	June 1-30.....	19		
Milam County.....	June 1-30.....	5		
Runnels County.....	May 1-July 31.....	26		
San Saba County.....	Apr. 9-June 30.....	11		
Smith County.....	June 1-30.....	10		
Stephens County.....	June 1-30.....	33	1	
Tarrant County.....	May 1-June 30.....	19	3	
Fort Worth.....	June 1-July 31.....	5		
Travis County.....	May 1-June 30.....	19		
Upshur County.....	May 1-Aug. 31.....	52		
Van Zandt County.....	May 1-June 30.....	6		
Victoria County.....	Aug. 1-31.....	6		
Webb County— Laredo.....	June 19.....	1		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas—Continued.				
Wharton County.....	June 1-30.....	2		
Wichita County.....	June 1-30.....	5		
Williamson County.....	June 1-Aug. 31.....	12	1	
Total for State.....		442	9	
Utah:				
Boxelder County.....	May 1-Oct. 31.....	8		
Cache County.....	June 1-July 31.....	4		
Carbon County.....	June 1-July 31.....	3		
Davis County.....	May 1-July 31.....	30		
Emery County.....	June 1-July 31.....	4		
Garfield County.....	May 1-Aug. 31.....	20		
Juab County.....	Aug. 1-Oct. 31.....	13		
Rich County.....	Oct. 1-31.....	4		
Salt Lake County.....	May 1-Oct. 31.....	65	1	
Salt Lake City.....	June 1-Oct. 31.....	112		
Sanpete County.....	May 1-Sept. 30.....	32		
Summit County.....	May 1-Aug. 31.....	78		
Tooele County.....	May 1-31.....	5		
Uinta County.....	May 1-Oct. 31.....	61		
Utah County.....	May 1-Oct. 31.....	101	1	
Wasatch County.....	Aug. 1-Oct. 31.....	55		
Weber County.....	May 1-Oct. 31.....	11		
Total for State.....		606	2	
Virginia:				
Lynchburg.....	June 20-26.....	1		
Total for State.....		1		
Washington:				
Bellingham.....	Oct. 24-30.....	2		
Seattle.....	July 1-Nov. 13.....	9		
Spokane.....	June 6-Nov. 13.....	8		
Tacoma.....	May 14-June 27.....	6		
Total for State.....		25		
West Virginia:				
Wheeling.....	Oct. 17-23.....	1		
Total for State.....		1		
Wisconsin:				
Ashland County.....	Jan. 1-Mar. 31.....	8		
Barron County.....	Jan. 1-June 30.....	93		
Brown County.....	Apr. 1-June 30.....	18		
Buffalo County.....	Jan. 1-Mar. 31.....	5		
Burnett County.....	Jan. 1-Mar. 31.....	11		
Calumet County.....	Jan. 1-June 30.....	2		
Chippewa County.....	Jan. 1-June 30.....	97	1	
Clark County.....	Jan. 1-June 30.....	20		
Columbia County.....	Jan. 1-Mar. 31.....	1		
Dane County.....	Apr. 1-June 30.....	6		
Douglas County.....	Jan. 1-June 30.....	11		
Dunn County.....	Jan. 1-June 30.....	39	2	
Fond du Lac County.....	Jan. 1-June 30.....	3		
Jackson County.....	Jan. 1-Mar. 31.....	1		
Juneau County.....	Jan. 1-June 30.....	42		
La Crosse County.....	Apr. 1-June 30.....	10		
La Crosse.....	June 13-Nov. 27.....	6		
Manitowoc County.....	Jan. 1-June 30.....	41		
Marathon County.....	Jan. 1-June 30.....	2		
Marinette County— Marinette.....	Nov. 13-20.....	1		
Milwaukee County.....	Apr. 1-June 30.....	24		
Milwaukee.....	June 2-Nov. 6.....	9		
Oconto County.....	Jan. 1-June 30.....	25	1	
Oneida County.....	Apr. 1-June 30.....	1		
Outagamie County— Appleton.....	June 20-July 31.....	22		
Ozaukee County.....	Jan. 1-Mar. 31.....	13		
Pepin County.....	Jan. 1-Mar. 31.....	2		
Pierce County.....	Jan. 1-Mar. 31.....	4		
Folk County.....	Jan. 1-June 30.....	19		
St. Croix County.....	Jan. 1-June 30.....	65		
Sheboygan County.....	Jan. 1-June 30.....	46		
Taylor County.....	Jan. 1-Mar. 31.....	6		

Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin—Continued.				
Trempealeau County.....	Jan. 1—Mar. 31.....	3		
Vernon County.....	Jan. 1—Mar. 31.....	51		
Walworth County.....	Apr. 1—June 30.....	1		
Washburn County.....	Jan. 1—June 30.....	14		
Waukesha County.....	Jan. 1—Mar. 31.....	5		
Waupaca County.....	Jan. 1—June 30.....	27		
Waushara County.....	Jan. 1—Mar. 31.....	1		
Winnebago County.....	Jan. 1—June 30.....	17		
Wood County.....	Apr. 1—June 30.....	2		
Total for State.....		773	4	
Grand total for the United States.....		5,840	31	

Plague in the United States.

[August 2—December 17, 1909.]

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
Alameda County—				
Oakland.....	Oct. 26.....	1		
Sunol.....	Aug. 2—12.....	1	1	Case sickened July 27. In vicinity of Sunol.
Sunol.....	Sept. 24.....	1		

MORBIDITY AND MORTALITY.

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

[For smallpox and plague, see special tables.]

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ann Arbor, Mich.....	Nov. 27	14,509	7	1											
Ashtabula, Ohio.....	do	12,949	6			2									
Do.....	Dec. 4	12,949	4				1								
Baltimore, Md.....	do	508,957	173	23	23	12	2	12	1	18	2	7	1	8	3
Biddeford, Me.....	do	16,145	17							2	2			2	2
Boston, Mass.....	Nov. 27	560,892	191	53	25	16	2	37		66	2	81	2	5	
Braddock, Pa.....	do	15,654	10			2		3		1		1			
Brockton, Mass.....	do	40,063	20	3	2	9				1					
Cambridge, Mass.....	do	91,886	23	7	2			4		8	1	10			
Camden, N. J.....	Dec. 4	75,935	25	1	4					11	1				
Carbondale, Pa.....	Nov. 27	13,536	3					2				5			
Charlotte, N. C.....	do	18,091	8	1	1	1				1		14			
Do.....	Dec. 4	18,091	12		2	1						18			
Chicago, Ill.....	do	1,698,575	570	94	91	30	9	177	6	163	20	142	2	43	4
Cincinnati, Ohio.....	Nov. 27	325,902	106	26	12	3	2	10		11		2		11	
Cleveland, Ohio.....	Dec. 3	381,768	116	36	6	4	2	10		33	4	62	1	5	
Columbus, Ga.....	Dec. 4	17,614	9												
Columbus, Ohio.....	Nov. 27	125,560	54	3	2	3		5		5		3			
Do.....	Dec. 4	125,560	33	17	7	2	1	8		5	1	18		2	
Concord, N. H.....	Nov. 27	19,632	9							5					
Danville, Ill.....	do	16,534	5	2	2										
Do.....	Dec. 4	16,534	5				1					1			
Dayton, Ohio.....	Nov. 27	85,333	19	1		1				9					
Do.....	Dec. 4	85,333	21		3	1		4		6					
Duluth, Minn.....	Nov. 27	80,000	17	1	1			1		15	1				
Do.....	Dec. 4	80,000	25	7	2			6		2					
Dunkirk, N. Y.....	do	11,616	5			2				3					
Elkhart, Ind.....	Nov. 27	15,184	5					1							

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

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Elmira, N. Y.	Nov. 27	35,672	7			2	1	1		1					
Evansville, Ind.	Dec. 4	59,007	15		1		3	2	9	7					
Everett, Mass.	Nov. 27	24,336	8		2		2	2	2	3	1				
Do.	Dec. 4	24,336	11		1				3	3					
Fall River, Mass.	Nov. 27	104,863	41	5	6	1	1	1	1	8	1				
Do.	Dec. 4	104,863	21	3	3	2		6	1	1					
Freeport, Ill.	do.	13,258	3	4				1		3			100		1
Galesburg, Ill.	Nov. 27	18,607	4					1							
Galveston, Tex.	do.	37,789		1	1										
Grand Rapids, Mich.	do.	87,565	26	1	5			28		2			2		
Haverhill, Mass.	Dec. 4	37,175	8					1		3			2		3
Indianapolis, Ind.	Nov. 27	169,164	35	6	5	5	1	11	1	16			69		
Do.	Dec. 4	169,164	4	1		1	1	1							
Jacksonville, Fla.	Nov. 27	28,428	23		3	3		12		6					
Jersey City, N. J.	Nov. 28	206,433	76	1	7	1	1	11		11	2				
Kalamazoo, Mich.	Nov. 20	24,404	12	1		1							2		
Do.	Nov. 27	24,404	10	3											1
Kingston, N. Y.	Nov. 13	24,535	7												
Do.	Nov. 27	24,535	8			1									
Do.	Dec. 4	24,535			2										
Knoxville, Tenn.	Nov. 27	32,637	5		1		1								
Lancaster, Pa.	Dec. 4	41,459	18	1		1		10		1			10		
La Crosse, Wis.	Nov. 27	28,895	9		3			1							
Manitowoc, Wis.	do.	11,786	3												
Manchester, N. H.	do.	56,987	37	2	2	1				7			30		
Marlboro, Mass.	do.	13,609	3		1					6					
Marion, Ind.	Dec. 4	17,337	5			1				1					
Massillon, Ohio	Nov. 27	11,944	1												
Melrose, Mass.	do.	12,962	2					4		4					
Memphis, Tenn.	do.	102,320	61	3	5		2	4		6					
Mobile, Ala.	do.	38,469	18		4	3		3		1					
Montclair, N. J.	do.	13,962	3					2		2			1		
Montgomery, Ala.	do.	30,346	16	13		2				1					
Nanticoke, Pa.	Dec. 5	12,616	5			1		4		2					
Nashville, Tenn.	Dec. 4	80,865	32	3	1	4		3		7					
Natchez, Miss.	Nov. 27	12,210	8	2						2					
Newark, N. J.	do.	246,070	111	15	16	5	1	50	3	52	3				2
Do.	Dec. 4	246,070	104	18		5		33	2	41	4			4	
New Orleans, La.	Nov. 27	278,104	142	25	17	7		13		13			7		
Do.	Dec. 4	278,104	126	22	14	10	1	8		11			1		
Newport, Ky.	Nov. 27	28,301	6		2						1		1		
Niagara Falls, N. Y.	do.	19,457	7	1	1	11		2		1					
Ottumwa, Iowa	do.	18,197	8				1								
Pittsburg, Pa.	do.	321,616	164	28	5	17	3	43		19	3		56		3
Plainfield, N. J.	Dec. 4	15,366	7	2	2	1		3		3			2		
Portland, Me.	Nov. 13	50,145	23		2	1				6	1				
Do.	Nov. 20	50,145	19			1		1		4	2		1		
Reading, Pa.	Dec. 6	78,961	24		2	3	1			6	1		5		1
Richmond, Va.	Nov. 27	85,050	52	2	6	2	1	1	1	6	1				
Rock Island, Ill.	do.	19,493	8							1	1				
St. Louis, Mo.	do.	575,238	200	27	19	15		41	3	32	4		17	1	10
Do.	Dec. 4	575,238	185	43	26	9	2	35	2	53	9		14	14	
San Francisco, Cal.	Nov. 20	342,782	129	25	15	1	1	10		11	2		6	12	1
Do.	Nov. 27	342,782	127	31	14	5	2	14		11	1		10	6	2
Seattle, Wash.	Nov. 20	80,671	49	1	4	9	2	12		1	5		5		
Do.	Nov. 27	80,671	43	3	4	5	1	8		8			5		
South Bend, Ind.	do.	35,999	8	1	1	1									
Do.	Dec. 6	35,999	10	1	1			2		1	1				
South Bethlehem.	Nov. 30	13,241	2		1	1		2		2					
Springfield, Mass.	Nov. 27	62,059	33	1	3	1	1	2		9					7
Springfield, Ohio.	do.	38,253	10	1	2			1		11			1		
Superior, Wis.	do.	31,091	6					3		1					
Tacoma, Wash.	Nov. 21	37,714	29		3			1		1					
Do.	Nov. 28	37,714	10					2		1					
Topeka, Kans.	Nov. 27	33,008	0							2					
Trenton, N. J.	Dec. 4	73,307	5	6	5	1		12		7					
Vincennes, Ind.	Nov. 27	10,249	2		1			1							
Waltham, Mass.	Dec. 4	23,481	7		1										
Warren, Ohio.	do.	8,529	3		2										
Washington, D. C.	Nov. 27	278,718	104	32	11	15	2	23		27	3		6		2
Wichita, Kans.	do.	24,671	12							2					
York, Pa.	Dec. 4	33,708				1		1		3			28		
Zanesville, Ohio	do.	23,538	11					2							

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

CALIFORNIA—*Los Angeles*.—Month of October, 1909. Estimated population, 300,000. Total number of deaths 299, including diphtheria 1, measles 4, scarlet fever 1, typhoid fever 2, and 51 from tuberculosis. Cases: Diphtheria 23, measles 61, scarlet fever 40, typhoid fever 31, tuberculosis 64.

Stockton.—Month of October, 1909. Estimated population, 25,000. Total number of deaths, 22.

CONNECTICUT—*Stamford*.—Month of November, 1909. Estimated population, 24,000. Total number of deaths not reported. No deaths from contagious diseases. Cases: Diphtheria 10, measles 1, scarlet fever 19, whooping cough 5, and smallpox 1.

ILLINOIS—*Quincy*.—Month of November, 1909. Estimated population, 43,000. Total number of deaths 40, including diphtheria 2 and 3 from tuberculosis. Cases: Diphtheria 15, scarlet fever 1, and typhoid fever 2.

INDIANA—*Jeffersonville*.—Month of November, 1909. Estimated population, 12,000. Total number of deaths 20, including 1 from typhoid fever. Cases: Scarlet fever 1, typhoid fever 1.

South Bend.—Month of November, 1909. Estimated population, 80,000. Total number of deaths 79, including 11 from tuberculosis. Cases: Diphtheria 4, scarlet fever 16, smallpox 4, typhoid fever 6, tuberculosis 11.

IOWA—*Cedar Rapids*.—Month of November, 1909. Estimated population, 35,000. Total number of deaths 41, including diphtheria 2, typhoid fever 1, and tuberculosis 1. Cases: Diphtheria 3, scarlet fever 2.

KANSAS.—Month of September, 1909. Deaths from contagious diseases were reported as follows: Diphtheria 18, scarlet fever 4, typhoid fever 70, tuberculosis 60. Cases: Diphtheria 173, measles 24, scarlet fever 84, typhoid fever 320, smallpox 4, tuberculosis 278.

MARYLAND—*Hagerstown*.—Month of October, 1909. Estimated population 50,000. Total number of deaths 57, including typhoid fever 2, whooping cough 1, and tuberculosis 4. Cases: Diphtheria 11, scarlet fever 5, typhoid fever 24.

MASSACHUSETTS.—Week ended September 4, 1909. Estimated population of towns reporting 2,306,089. Total number of deaths 683, including diphtheria 4, typhoid fever 10, phthisis pulmonalis 44. Week ended September 11, 1909. Estimated population of towns reporting 2,365,783. Total number of deaths 720, including diphtheria 5, typhoid fever 10, phthisis pulmonalis 47.

Week ended September 18, 1909. Estimated population of towns reporting, 2,351,613. Total number of deaths, 711, including diph-

theria 2, measles 2, smallpox 1, typhoid fever 7, phthisis pulmonalis 60.

Week ended September 25, 1909. Estimated population of towns reporting, 2,355,921. Total number of deaths, 682, including diphtheria 8, typhoid fever 8, phthisis pulmonalis 39.

MICHIGAN.—Month of October, 1909. The Monthly Bulletin of Vital Statistics says:

There were 2,863 deaths returned to the department of state as having occurred during the month of October, 1909. This corresponds to an annual death rate of 12.7 per 1,000 estimated population. Reports were received from districts covering 2,497,911 persons, according to the last state census, or 98.73 per cent of the total registrable population of the State.

Important causes of death were as follows: Pulmonary tuberculosis 122, other forms of tuberculosis 24, typhoid fever 102, diphtheria and croup 41, scarlet fever 31, measles 3, and whooping cough 14.

Two deaths were reported from tetanus, 1 from the township of Paris, Huron County, and 1 from Armada Township, Macomb County. One death was returned from smallpox, occurring in the city of Grand Rapids.

MINNESOTA.—Month of July, 1909. Estimated population of cities and towns reporting, 1,751,000. Total number of deaths, 1,290, including diphtheria 26, measles 4, scarlet fever 20, smallpox 1, typhoid fever 12, whooping cough 13, and 157 from tuberculosis.

Month of August, 1909. Estimated population of cities and towns reporting, 1,979,658. Total number of deaths, 1,652, including diphtheria 29, scarlet fever 11, typhoid fever 22, whooping cough 24, and 168 from tuberculosis.

NEW HAMPSHIRE—*Franklin*.—Month of October, 1909. Estimated population, 7,200. Total number of deaths, 9. Cases: Diphtheria 2.

NEW YORK—*Perry*.—Month of October, 1909. Estimated population, 5,000. Total number of deaths, 7. Cases: Measles 60, scarlet fever 4, typhoid fever 1, tuberculosis 3.

NORTH CAROLINA—*Charlotte*.—Month of November, 1909. Estimated population, 45,455. Total number of deaths, 49, including typhoid fever 2, and 6 from tuberculosis.

OHIO—*Cleveland*.—Month of October, 1909. Estimated population, 515,000. Total number of deaths, 562, including diphtheria 9, scarlet fever 1, typhoid fever 7, whooping cough 2, and 48 from tuberculosis.

PENNSYLVANIA—*Altoona*.—Month of November, 1909. Estimated population, 60,000. Total number of deaths, 38, including typhoid fever 3. Cases: Diphtheria 5, scarlet fever 1, typhoid fever 5.

TEXAS—*San Antonio*.—Month of October, 1909. Estimated population, 100,000. Total number of deaths, 138, including whooping cough 1, and 22 from tuberculosis. Cases: Diphtheria 9, measles 1, smallpox 4, typhoid fever 15.

UTAH—*Salt Lake City*.—Month of September, 1909. Estimated population, 85,000. Total number of deaths, 101, including diphtheria 1, typhoid fever 6, and 5 from tuberculosis. Cases: Diphtheria 6, measles 1, scarlet fever 19, smallpox 9, typhoid fever 206, whooping cough 2, tuberculosis 5 (incomplete).

VIRGINIA—*Lynchburg*.—Month of November, 1909. Estimated population 30,050. Total number of deaths, 34, including typhoid fever 1 and tuberculosis 10.

FOREIGN AND INSULAR.

BRAZIL.

Rio de Janeiro—Inspection of vessels—Plague and smallpox.

Acting Assistant Surgeon Stewart reports, November 7:

Two weeks ended November 6. Vessels inspected: October 25, the British steamships *Ripley* for New York, with coffee cargo, no passengers and no change in crew personnel, and *Corsican Prince* for New York, with coffee, no passengers and no change in personnel; October 28, the British steamship *Anselma de Larrinaga* for Key West, in water ballast, no passengers and no change in personnel; October 29, the German bark *Clara* for New Orleans, with stone ballast, no passengers and no change in personnel, and the Brazilian steamship *Sergipe* for New York, via Brazilian coast ports, with 28 cabin and 20 steerage passengers and all crew signed on at this port; November 1, the German steamship *Desterro* for New York, in coffee cargo, with 2 steerage passengers and no change in personnel; November 3, the British steamship *Tennyson* for New York, in coffee cargo, with 7 cabin and 8 steerage passengers and no change in personnel; November 4, the British steamship *Southwaite* for some southern port, in water ballast, with no passengers and no change in personnel; and November 6, the British steamship *Kenilworth* for New Orleans, with coffee, no passengers and no change in personnel.

Mortality—Plague and smallpox.—Week ended October 31. No deaths from plague, smallpox, or yellow fever. Two cases of plague and 3 of smallpox reported. In São Sebastião hospital, at close of week, 1 case of plague and 4 cases of smallpox were under treatment.

CHINA.

Hankow—Plague.

The following information was received from the Department of State December 7:

Vice-consul-general at Hankow reports plague.

CUBA.

Cienfuegos—Inspection of vessels.

Acting Assistant Surgeon Suarez reports, November 29:

Week ended November 27.

Vessels inspected.....	6
Bills of health issued.....	6
Members of crews of outgoing vessels inspected.....	215

No quarantinable disease reported.

Habana—Inspection of vessels.

Acting Assistant Surgeon Villoldo reports, December 8:

Week ended December 4.

Bills of health issued.....	24
Vessels inspected.....	17
Members of crews of outgoing vessels inspected.....	840
Passengers of outgoing vessels inspected.....	437
Vaccination certificates issued.....	16
Immune certificates issued.....	4
Certificates, inspection of hides, issued.....	3

Reports from the mosquito brigade in Habana for the period from November 20 to 30, show that 18,261 houses were inspected, and 54,737 water deposits petrolled, drained, or suppressed.

Matanzas—Inspection of vessels.

Acting Assistant Surgeon Nuñez reports, November 29:

Week ended November 27. Bills of health issued to 5 vessels clearing for United States. Health of city and surrounding country, good; no quarantinable disease reported.

Santiago—Inspection of vessels—House inspection.

Acting Assistant Surgeon Wilson reports, December 3:

Week ended November 27. Bills of health issued to 11 vessels bound for the United States. No quarantinable disease reported.

The sanitary department reports that 3,061 houses were inspected.

GERMANY.

Berlin—Status of cholera in East Prussia.

The following information was received from the Department of State, December 4:

The American embassy at Berlin reports November 17 that only 1 case of cholera has been reported in East Prussia since November 5

INDIA.

Calcutta—Cholera, plague.

Acting Assistant Surgeon Allan reports, November 11:

Week ended October 30. In Calcutta there were 9 deaths from cholera and 10 from plague; in all Bengal, 68 cases of plague with 53 deaths, and in all India 4,287 cases of plague with 3,456 deaths.

Madras—Cholera mortality, January 1–August 31, 1909.

Vice-consul Jackson reports, November 4:

Deaths from cholera.

MADRAS CITY.

January.....	3
February.....	4
March.....	5
April.....	1
May.....	
June.....	2
July.....	3
August.....	2
Total.....	20

MADRAS PRESIDENCY.

Month.	Population.	Deaths.
January.....	36, 354, 195	9, 310
February.....	36, 053, 943	5, 511
March.....	36, 149, 387	5, 123
April.....	36, 261, 867	2, 357
May.....	36, 120, 883	1, 690
June.....	36, 428, 905	1, 944
July.....	36, 620, 442	2, 117
August.....	36, 221, 879	2, 166
Total.....		30, 218

ITALY.

Naples—Examination of emigrants—Smallpox.

Surgeon Geddings reports, November 22:

Vessels inspected at Naples and Palermo week ended November 20.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Nov. 14	Regina d'Italia.....	New York.....	295	44	420
15	Luisiana.....	do.....	102	78	650
17	Moltke.....	do.....	403	105	680
17	Carpathia.....	do.....			
18	Germania.....	do.....	231	66	365
18	San Giovanni.....	do.....	119	22	180
19	Cairnstrath.....	Boston.....			
20	America.....	New York.....	701	145	970
	Total.....		2, 251	460	3, 265

PALERMO.

Nov. 15	Regina d'Italia.....	New York.....	290	800	175
19	San Giovanni.....	do.....	216	4.0	75
	Total.....		506	1, 200	250

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
Nov. 14	Regina d'Italia.....	6	.....	9	.....	4	19
15	Luisiana.....	29	3	10	2	7	51
17	Moltke.....	17	.....	6	.....	2	25
17	Carpathia.....	.....	.....	.....	.....	.....	.....
18	Germania.....	7	.....	8	.....	4	19
18	San Giovanni.....	7	.....	4	.....	.....	11
20	America.....	33	4	19	.....	1	57
	Total.....	99	7	56	2	18	182

PALERMO.

Nov. 15	Regina d'Italia.....	19	.....	26	.....	1	46
19	San Giovanni.....	18	.....	23	.....	1	42
	Total.....	37	.....	49	.....	2	88

Smallpox in Naples.—During the week ended November 21, 6 cases of smallpox with 2 deaths were reported at the health office of the city of Naples.

JAPAN.

Yokohama—Inspection of vessels—Cholera and plague.

Passed Assistant Surgeon Cumming reports, November 17:

Week ended November 13. Bills of health issued to steamships: *Oceano* for Seattle, *Korea* for Manila via ports, *Asia* for San Francisco and Honolulu, *Hongkong Maru* for Honolulu, *Inverclyde* for Cebu, *Bellerophen* for Seattle, and *Seattle Maru* for Tacoma.

No case of quarantinable disease has been reported in this part of the Empire during the month. A case of cholera and 1 of plague have been reported from Osaka and many cases of plague are reported in Kobe.

During the week 82 persons were bathed and their personal effects, consisting of 205 pieces of baggage, disinfected; also 2 cases of human hair. During the week 94 persons were examined, of whom 15 were held and 79 passed.

JAVA.

Batavia—Decrease of cholera.

The following information dated October 26 was received from Consul Rairden through the Department of State under date of December 8:

The districts of Djambi and Palembang, in Sumatra, have been officially declared free from cholera. There has been a decrease in cholera in Batavia during the past few days.

MEXICO.

Report from the Superior Board of Health of Mexico—Yellow fever in Merida.

In compliance with articles 1 and 2 of the International Sanitary Convention signed at Washington October 14, 1905, the president of the Superior Board of Health of Mexico reports, December 6, that for the week ended December 4, 1 case of yellow fever was registered November 29 in the city of Merida, and that prophylactic measures against the disease continue to be carried out.

Coatzacoalcos—Inspection of vessels.

Acting Assistant Surgeon Thompson reports, November 25:

Week ended November 24. Vessels inspected: November 19, steamship *Cayo Manzanillo* for a port in the United States via Veracruz and Tampico; November 22, steamship *San Cristobal* for Port Arthur; November 23, steamship *Californian* for New York; November 24, steamship *Antillian* for a port in the United States via Veracruz and Tampico; and steamship *Constantia* for Norfolk.

Salina Cruz—Fumigation of vessels.

Acting Assistant Surgeon Gochicoa reports, December 1:

Two weeks ended November 30. Vessels fumigated: November 21, the steamship *Virginian* for San Francisco, Cal.; November 26, the steamship *Nevadan* for San Diego, Cal.

NICARAGUA.

Bluefields, fruit port.

Acting Assistant Surgeon Layton reports:

Week ended November 27. Present officially estimated population, 4,000.

Bill of health issued to the following vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Nov. 27	Dictator.....	New Orleans, via Cape Gracias à Dios, Nicaragua.	21	11	0

PERU.

Callao—Fumigation of vessels.

Acting Assistant Surgeon Castro-Gutierrez reports, November 15:

Week ended November 6. One steamship, having an aggregate personnel of 84 in crew and 45 cabin and 34 steerage passengers, was fumigated.

† Week ended November 13. Three vessels, having an aggregate personnel of 154 in crew and 48 cabin and 16 steerage passengers, fumigated.

RUSSIA.

St. Petersburg—Status of cholera.

The following information, dated November 13, was received from Chargé d'Affaires Schuyler through the Department of State under date of December 3:

A communication from the ministry for foreign affairs states that during the period from October 31 to November 6 there were 172 cases of cholera, with 78 deaths, in Russia, occurring as follows:

Cities and governments.	Cases.	Deaths.
St. Petersburg.....	81	20
Baku.....	6	6
Vladivostok.....	1	2
Governments:		
Archangel.....	3	2
Esthonia.....	3	1
Livonia.....	1	.....
Grodno.....	3	2
Vitebsk.....	2	2
Kovno.....	1	2
Jaroslav.....	9	5
Kostroma.....	6	3
Nijni-Novgorod.....	9	7
St. Petersburg.....	22	11
Samara.....	2	1
Sarotov.....	1	1
Astrakhan.....	2	.....
Kief.....	.....	1
Volhynia.....	1	.....
Poltava.....	1	.....
Taurida.....	18	12
Total.....	172	78

The city and district of Jalta are infected with cholera.

Libau—Examination of emigrants.

Acting Assistant Surgeon De Forest reports, November 21:

Week ended November 18. The steamship *Lituania* sailed from Libau November 16 in good sanitary condition. Four hundred and eighty passengers were held under observation for five days previous to departure. The crew, consisting of 89 members, was held under observation and examined for five consecutive days previous to departure. Two hundred pieces of large baggage were disinfected by formaldehyde gas.

Five cases of smallpox occurred in Libau during the week ended November 14.

Cholera, yellow fever, plague, and smallpox.

[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 from June 26 to December 17, 1909. For reports received from December 25, 1908, to June 24, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Belgium:				
Antwerp.....	Oct. 26-30.....	9	6	At Boom, 10 miles distant.
China:				
Amoy.....	June 13-Oct. 30.....		405	
Chefoo.....	Aug. 28.....		5	Among Europeans; Sept. 11, epidemic.
Hankow.....	July 17-Oct. 16.....	14	5	
Kang Tsau.....	Apr. 1-June 30.....	4	2	
Shanghai.....	July 26-31.....	3	1	On s. s. Hudson; Aug. 7, present among foreigners and natives; Oct. 2, still present among natives.
Kulangsu.....	Oct. 2.....		3	
Swatow.....	May 11-29.....			Present in vicinity; Aug. 28, 3 cases, 2 deaths, on s. s. Waishing.
Germany:				
Andreschken district.....	Oct. 24-Nov. 12.....	6		
Heydekrug district.....	Oct. 20-Nov. 18.....	10	2	
Konigsberg.....	July 21.....		1	
Labiau district.....	Nov. 1-6.....	4		
Niederung district.....	Oct. 16-Nov. 1.....	5	2	
Pakalsne.....	Sept. 20.....	2	1	Near Russ.
Skirwietell.....	Oct. 23-Nov. 6.....	5		
Skopen.....	Oct. 23-30.....	5		
Stoltzenhagen.....	Sept. 18.....		1	25 miles from Stettin.
Tilsit.....	Oct. 11.....		1	
India:				
Bombay.....	May 30-Nov. 9.....		425	
Calcutta.....	May 16-Oct. 30.....		968	
Madras, presidency.....	Jan. 1-Sept. 30.....		32,050	
Madras.....	May 29-Aug. 20.....		7	
Negapatam.....	May 8-Oct. 1.....		23	
Rangoon.....	May 16-Oct. 30.....		74	
Indo-China:				
Saigon.....	May 9-Oct. 2.....	24	18	
Japan:				
Amagasaki.....	Aug. 14-21.....	4		
Kagawa, prefecture.....	Aug. 8-14.....	7		
Karatsu.....	Sept. 1-9.....	11	2	On s. s. Taian Maru.
Kobe.....	Sept. 6-Nov. 6.....	4	2	July 31, 1 case on s. s. Mile.
Kyoto.....	Oct. 10-26.....	200	98	
Moji.....	Oct. 9-16.....	4	2	
Osaka.....	Nov. 7-13.....	1		
Shikoku, island:				
Matsuyama.....	Oct. 20.....			Present.
Wakamatsu.....	Oct. 30.....	2	2	
Javá:				
Batavia.....	Sept. 12-Oct. 23.....	782	231	Among natives and Chinese. Epidemic in northern part.
Korea:				
Chemulpo.....	Sept. 11-23.....			Epidemic.
Seoul.....	Sept. 19-29.....	1,072	651	Sept. 29, epidemic at Fusen Peng Yan and along the Yalu River.
Manchuria:				
Dalny.....	Aug. 11-Nov. 1.....	29	26	Case Aug. 11 on s. s. Kobe Maru.
Liao yang.....	Aug. 10.....		1	
Mukden.....	Aug. 14.....		1	
Tashihchiao.....	Aug. 11.....		1	
Yinkou.....	Aug. 14.....	6	1	
Netherlands, the:				
Amsterdam.....	Sept. 10.....	1	1	
Breda.....	Aug. 30-Sept. 4.....	1		
Dirksland.....	Sept. 10.....	1		
Dordrecht.....	Aug. 30.....			Present.
Garkum.....	Aug. 30-Sept. 4.....	1		
Honsweert.....	Sept. 27-Oct. 2.....	3		
Hattem.....	Oct. 1-8.....	4	1	
Holsteren.....	Sept. 1-7.....	1		
Hoogvliet.....	Sept. 1-7.....	1		
Lopik.....	Sept. 27-Oct. 2.....	2		
Middleburg.....	Sept. 4.....	1		
Pernis.....	Sept. 1-7.....	2		

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

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Netherlands, the—Continued.				
Rotterdam.....	Aug. 20–Sept. 11.....	34	15	
Tholen.....	Sept. 4.....	1	1	
Uithoorn.....	Aug. 30–Sept. 4.....	1	1	
Utrecht, province—				
Jaarsveld.....	Oct. 20–Nov. 1.....	2	1	
Utrecht.....	Sept. 4.....	1	1	
Vlaardinger.....	Sept. 4.....	1	1	
Philippine Islands:				
Manila.....	July 11–Oct. 23.....	139	111	Fourth quarter, 1908, 308 cases and 190 deaths; first quarter 1909, 1 death (imported); second quarter 1909, no cholera. Fourth quarter 1908, 7,380 cases and 4,292 deaths; first quarter 1909, 2,221 cases and 1,405 deaths; second quarter 1909, 961 cases and 630 deaths.
Provinces.....				
Albay.....	Aug. 27–Oct. 16.....	266	269	
Ambos Camarines.....	July 4–Oct. 23.....	764	550	
Bataan.....	Sept. 5–Oct. 23.....	246	196	
Bohol.....	Aug. 23–Oct. 23.....	137	83	
Bulacan.....	July 4–Oct. 23.....	371	360	
Cagayan.....	July 11–Sept. 18.....	222	117	
Cavite.....	Sept. 16–Oct. 16.....	7	6	
Cebu.....	May 16–Oct. 23.....	426	340	
Dapitan.....	May 9–15.....			Present.
Iloos Norte.....	Aug. 15–Oct. 23.....	182	85	
Iloilo.....	May 23–June 19.....	28	18	
Isabela.....	July 18–24.....	5	4	
Leyte.....	June 6–Sept. 25.....	28	14	
Moro.....	May 29–July 3.....	9	9	
Mountain.....	June 20–26.....	27	15	
Negros Occidental.....	May 9–15.....	8	2	
Negros Oriental.....	May 16–Oct. 23.....	811	584	
Pampanga.....	May 9–Oct. 23.....	649	326	
Pangasinan.....	June 13–19.....	1	1	
Rizal.....	July 25–Oct. 23.....	33	27	
Samar.....	May 9–July 10.....	42	26	
Sorsogon.....	May 9–15.....	8	2	
Tarlac.....	July 4–Oct. 23.....	59	43	
Russia, general.....	May 23–Nov. 13.....	13,361	5,677	July 23, present in Kreutzburg, Mahlgraben, Muravjevo, Pl-nega, Radsiwilischki, Reval, Schaulen, and Tver.
Alexandrovsk.....	Aug. 28–Oct. 1.....	10	8	
Archangel.....	June 26–Nov. 6.....	368	200	
Astrachan.....	Sept. 17–Nov. 6.....	24	12	
Baku, government.....	July 4–Nov. 13.....	57	24	
Chmalysk, district.....	July 1.....	1	1	
Courland.....	July 5–Oct. 1.....	245	107	
Cronstadt.....	June 30–Sept. 17.....	66	26	
Dorpat.....	Aug. 14–20.....	1	1	
Drissa.....	July 23–Sept. 17.....	38	17	
Estonia, government.....	July 1–Nov. 13.....	29	15	
Finland, general.....	July 16.....	1	1	
Mariengam.....	June 23–24.....	1	1	
Viborg.....	July 9–16.....	1	1	
Gadjatschek.....	Aug. 3–Sept. 3.....	53	18	
Griva.....	Sept. 25–Oct. 1.....	128	56	
Grodno.....	Oct. 1–Nov. 1.....	32	17	
Hungerburg.....	July 30–Oct. 1.....	11	7	
Jaroslav, government.....	Sept. 11–Oct. 1.....	361	177	
Jaroslav.....	July 4–Oct. 1.....	470	237	
Jalta, district.....	Nov. 6.....			Present.
Kem.....	Aug. 8–Oct. 1.....	47	24	
Kharkov.....	Aug. 1–Sept. 3.....	20	10	
Kherson.....	Oct. 1.....	1	1	
Kief.....	Sept. 11–Nov. 13.....	66	41	July 30, present.
Kostroma.....	July 23–Nov. 13.....	227	84	
Kretsky, district.....	July 1.....	1	1	
Livonia.....	July 5–Nov. 13.....	90	43	
Mitau.....	July 15–Oct. 1.....	28	17	
Mohileve, government.....	Aug. 2–Oct. 1.....	131	67	
Moscow.....	July 9–Oct. 9.....	26	9	
Nishni-Novgorod.....	July 4–Nov. 13.....	159	76	
Novgorod, government.....	July 4–Oct. 1.....	393	131	
Olonets, government.....	June 20–Aug. 14.....	11	7	
Perm.....	Aug. 2–Oct. 1.....	27	11	
Polotzk.....	June 27–Oct. 1.....	711	202	
Poltava, government.....	Aug. 15–Oct. 1.....	106	47	

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

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Pskov.....	July 1—Nov. 13....	142	47	
Reval.....	Aug. 21—27.....	2	.....
Riga.....	July 1—Oct. 16....	327	129	
Rjasin.....	June 24—Oct. 23....	8	7	
Ruovinsk.....	July 30—Sept. 17....	185	103	
Samara.....	Aug. 15—Nov. 6....	83	59	
Saratov.....	Aug. 15—Nov. 13....	30	19	
Simbirsk.....	July 13—Oct. 16....	10	3	
St. Petersburg, government.	June 9—Nov. 13....	984	526	
St. Petersburg.....	June 2—Nov. 13....	6,085	2,352	
Tver, government.....	Aug. 15—Oct. 30....	378	99	
Viatka, government.....	July 6—24.....	2	2	
Vilna.....	July 11—Aug. 21....	61	20	
Vitebsk, government.....	July 9—Nov. 13....	764	258	
Volhynia.....	Oct. 30—Nov. 6....	.....	.....	Present.
Vologda, government.....	May 31—Oct. 1....	544	234	
Slam:				
Bangkok.....	Apr. 25—May 28....	1	.....
Siberia:				
Vladivostok.....	Sept. 23—Oct. 21....	99	67	
Straits Settlements:				
Singapore.....	May 9—Sept. 18....	.....	20	
Sumatra:				
Djambi.....	July 15—Aug. 20....	220	113	Among natives.
Palembang.....	Sept. 28.....	.....	.....	Present.
Sweden:				
Stockholm.....	Aug. 12.....	1	.....	Imported.

YELLOW FEVER.

Barbados, general.....	June 13—Aug. 14....	2	1	St. Joseph Parish, December to June, 14 deaths not previously reported.
Brazil:				
Bahia.....	May 23—Oct. 22....	47	23	
Manaos.....	May 23—Nov. 13....	.....	13	Apr. 24—May 1—2 deaths. Reported out of data.
Para.....	May 30—Nov. 20....	85	66	
Pernambuco.....	Apr. 15—Aug. 31....	.....	11	
British Guiana:				
Suddie.....	July 22.....	1	1	35 miles from Georgetown.
Ecuador:				
Guayaquil.....	May 23—Nov. 13....	.....	40	
Mexico:				
Merida.....	June 5—Nov. 29....	15	6	Sept. 11, 2 cases imported from the district of Acaacch.
Peto.....	Nov. 26.....	1	.....
Tekik.....	Oct. 1.....	1	.....
Veracruz.....	Sept. 24.....	.....	1	On s. s. Sonora.
Panama:				
Canal Zone—				
Ancon.....	Mar. 1—31.....	.....	.....	1 case at Culebra Island quarantine station, from a vessel, and 1 fatal case en route from Guayaquil.
Venezuela:				
Maiquetia.....	Aug. 15—Nov. 6....	.....	6	

PLAGUE

Australia:				
Adelaide.....	Apr. 30—June 12....	2	2	And vicinity.
Bunbury.....	June 4.....	1	.....	On s. s. Zoroaster.
Mackay.....	Jan. 21—June 6....	2	2	
Sydney.....	Apr. 18—May 29....	5	1	
Azores:				
Terceira.....	June 16.....	3	1	
Bahrein Island, Persian Gulf:				
.....	May 29—June 10....	.....	6	
Brazil:				
Bahia.....	May 22—Nov. 5....	71	52	
Pernambuco.....	Sept. 1—30.....	.....	2	
Rio de Janeiro.....	May 17—Nov. 1....	9	3	
British East Africa:				
Kisumu.....	July 10—Aug. 24....	12	12	
Chile:				
Antofagasta.....	May 9—30.....	13	5	Oct. 16, still present.
Iquique.....	May 20—Sept. 22....	23	12	Do.
Mejillones.....	May 4—Oct. 16....	.....	.....	Present.

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

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.	
China:					
Amoy.....	June 1-Oct. 30.....	1,181	Epidemic. Do. 1 case on river steamer. Dec. 7, present. July 1, 200 cases still present in Touchowfu and Yin Shan.	
Canton.....	May 9-Aug. 7.....	325	211		
Chang-Poo.....	July 23.....	.....	.....
Chinchew.....	May 22.....	.....	.....
Eng-Ta-Tau.....	July 1-31.....	11	4		
Hankow.....	Oct. 9.....	.....	.....
Hongkong.....	May 2-Aug. 18.....	92	83		
Kang-be.....	July 24.....	61	59		
Kang Thau.....	Apr. 1-July 31.....	125	62		
Pollam.....	May 23-28.....	8	7		
Swatow district.....	May 16-July 3.....	.....	450	
Swatow.....	May 16-July 19.....	.....	2	
Ecuador:					
Babohoyo.....	Sept. 21.....	Present.	
Chunchi.....	June 1-30.....	3	1	Sept. 21, again present.	
Duran.....	July 16-31.....	3	.....	
Guayaquil.....	May 23-Oct. 23.....	149	111		
Huigra.....	May 1-June 15.....	16	3		
Egypt:					
Alexandria.....	May 30-Sept. 20.....	14	10	Cases Sept. 6 and 19 at Papaikou. The case arrived on the s. s. Korea had been ill 11 days, and probably received infec- tion at Hongkong.	
Port Said.....	May 29-Oct. 27.....	15	6		
Provinces—					
Assiout.....	May 14-Sept. 28.....	48	8		
Beherach.....	June 14-Sept. 8.....	37	14		
Galyoobeeyah.....	June 2-Sept. 6.....	10	2		
Garbleh.....	June 2-Nov. 2.....	49	19		
Fayum.....	June 3-23.....	15	6		
Menouf.....	Jan. 18-Aug. 17.....	87	17		
German East Africa:					
Muanza district.....	Apr. 30-May 22.....	.....	12	
Hawaii:					
Hilo.....	Aug. 19-Oct. 4.....	4	3		Cases Sept. 6 and 19 at Papaikou. The case arrived on the s. s. Korea had been ill 11 days, and probably received infec- tion at Hongkong.
Honolulu.....	July 20.....	1	.....	
Olaa plantation.....	Aug. 20-22.....	3	2		
India:					
Bombay Presidency and Sind.....	May 16-Oct. 2.....	10,027	7,309	In south and central ports. Higo ken, including Kobe, Jan. 1 to Oct. 22, 159 cases. Present on a vessel. Oct. 20, present in Koki and Mat- suyama. Present. Among troops.	
Madras Presidency.....	May 16-Oct. 2.....	2,948	1,838		
Bengal.....	May 16-Oct. 2.....	1,250	1,015		
United provinces.....	May 16-Oct. 2.....	5,725	5,051		
Punjab.....	May 16-Oct. 2.....	7,810	6,624		
Burma.....	May 16-Oct. 2.....	1,581	1,487		
Central provinces, includ- ing Berar.....	May 16-Oct. 2.....	4,488	3,759		
Mysore State.....	May 16-Oct. 2.....	2,514	1,808		
Hyderabad State.....	Sept. 12-Oct. 2.....	81	62		
Central India.....	July 18-Oct. 2.....	1,411	920		
Rajputana and Ajmer-Mer- wara.....	May 16-Oct. 2.....	2,089	1,676		
Northwest Province.....	Sept. 26-Oct. 2.....	1	.....	
Kashmir.....	May 16-Sept. 25.....	5	4		
Grand total.....	.....	39,930	31,553	
Indo-China:					
Saigon.....	May 9-Oct. 23.....	119	115		
Japan:					
Formosa.....	May 23-July 17.....	223	156	In south and central ports. Higo ken, including Kobe, Jan. 1 to Oct. 22, 159 cases.	
Kobe.....	May 30-Nov. 6.....	173	129		
Osaka.....	July 4-Nov. 13.....	3	1	Present on a vessel. Oct. 20, present in Koki and Mat- suyama.	
Nagasaki.....	Sept. 11.....	.....	.....
Shikoku, island.....	July 17-Aug. 3.....	3	1	Present.	
Shimonoseki.....	Sept. 11.....	.....	.....
Tokyo.....	June 26.....	3	.....	
Yokohama.....	May 25-Aug. 7.....	28	24		
Mauritius.....	Apr. 1-Dec. 17.....	110	74	Among troops.	
Morocco:					
Casablanca.....	July 15-Oct. 4.....	.....	5	

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

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru:				
Arequipa, department.....	May 8-Sept. 23.....	15	4	
Chala.....	July 3-15.....			Present.
Mollendo.....	July 3-15.....			Do.
Cajamarca, department.....	May 8-July 15.....	20	6	
Callao, department.....	May 8-Aug. 12.....	10	4	
Callao.....	June 20-Aug. 7.....			Present. Sept. 1, again present.
Ica, department.....	July 3-Sept. 9.....	2		
Lambayeque, department.....	May 8-Aug. 12.....	18	11	
Eten.....	July 15.....			Present.
Libertad, department.....	May 8-Sept. 23.....	26	13	
Salaverry.....	July 15.....			Do.
Lima, department.....	May 8-Sept. 23.....	37	16	
Cerro Azul.....	July 15.....			Do.
Moquegua, department.....	July 16-29.....	6	2	
Ilo.....	July 15.....			Do.
Pescadores Islands.....	June 27-July 3.....	4		From s. s. Lodore.
Piura, department.....	June 18-Sept. 23.....	46	33	
Paíta.....	June 20-July 15.....			Present.
Russia:				
Kirgisenuul.....	Aug. 5-8.....	19	18	In the Ural district to Aug. 14, 22 deaths.
Siam:				
Bangkok.....	Apr. 25-Aug. 28.....	22	22	
Trinidad:				
Port of Spain.....	June 13-July 18.....	6	5	
Turkey in Asia:				
Adalia.....	June 25-Oct. 31.....	8	5	
Beirut.....	June 25-July 4.....	1		In Harrett Aryk.
Uruguay:				
Montevideo.....	May 1-June 30.....		2	
Venezuela:				
Caracas.....	June 18-Nov. 11.....	15	5	
Zanzibar.....	July 14-Nov. 8.....	6	6	

SMALLPOX.

Algeria:				
Algiers.....	May 1-Sept. 30.....	27	23	
Bona.....	June 1-Oct. 31.....	55	29	
Arabia:				
Aden.....	Aug. 3-9.....		1	
Argentina:				
Buenos Aires.....	Mar. 1-Sept. 30.....		81	
Rosario.....	Apr. 1-July 31.....	3	3	
Austria:				
Bohemia.....	Sept. 26-Oct. 2.....	1		Imported.
Galicia.....	June 6-July 31.....	6		
Silesia.....	June 20-Aug. 7.....	17		
Belgium:				
Antwerp.....	July 18-24.....	4		
Brazil:				
Bahia.....	May 22-Nov. 5.....	187	112	
Para.....	Oct. 23-30.....	2	2	
Pernambuco.....	Apr. 1-Sept. 30.....		130	
Rio de Janeiro.....	May 17-Nov. 1.....	91	31	
Santos.....	May 10-16.....		1	
São Paulo.....	May 10-July 18.....		12	
Canada:				
British Columbia—				
Vancouver.....	June 1-July 31.....	4		
Nova Scotia—				
Halifax.....	June 13-Aug. 7.....	5		
Ontario—				
Hamilton.....	Sept. 1-30.....	2		
Quebec—				
Montreal.....	June 17.....			2 cases additional at Grosse Ile on s. s. Virginian.
Quebec.....	Nov. 14.....	1		On s. s. Dominion from Liverpool.
Ceylon:				
Colombo.....	May 23-29.....	2		
Chile:				
Valparaiso.....	Oct. 10-16.....	2		May 16-Nov. 6, present.
Santiago.....	May 29-Aug. 21.....			Present.

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

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	June 1-Sept. 11.....		32	May 9-15, present.
Eng-Ta-Tau.....	July 1-31.....	9		
Hankow.....	Aug. 21.....	1		Apr. 26-June 12, present among natives.
Hongkong.....	May 2-June 26.....	16	12	
Kang Thau.....	Apr. 1-June 30.....	7	1	
Newchwang.....	Aug. 1-14.....	2	1	
Shanghai.....	May 10-Oct. 3.....		9	Sept. 25, still present among natives. Sept. 4, 1 case on s. s. Wilmington.
Tientsin.....	June 27-July 3.....	1	2	
Egypt, general.				
Alexandria.....	Apr. 30-Oct. 7.....	1,615	373	
Cairo.....	June 1-30.....	3		
Cairo.....	May 21-Sept. 30.....		20	
Sues.....	May 21-Nov. 4.....	47	5	
Ecuador:				
Ensenada.....	Aug. 25.....			Epidemic.
Guayaquil.....	June 1-Aug. 10.....	3		In July, 4 cases and 1 death in vicinity.
France:				
Bordeaux.....	Sept. 4.....		1	
Marseille.....	June 1-Oct. 31.....		8	
Nantes.....	July 1-31.....	1		
Paris.....	May 23-Oct. 2.....	41	3	
Toulon.....	July 25-31.....		1	
Germany, general.				
Gibraltar.....	May 30-Nov. 14.....	27		
Gibraltar.....	Aug. 8-Oct. 24.....	4		
Great Britain:				
Cardiff.....	July 6.....	1		
Liverpool.....	June 21-26.....	2		Case, June 22, from s. s. Canada.
London.....	Oct. 3-Nov. 20.....	5		
Greece:				
Athens.....	Sept. 19-25.....		2	
Hungary:				
Budapest.....	Sept. 26-Oct. 9.....	2	1	
India:				
Bombay.....	May 26-Nov. 2.....		97	
Calcutta.....	May 16-Sept. 4.....		128	
Madras.....	May 22-Oct. 29.....		25	
Rangoon.....	May 12-Oct. 23.....		35	
Indo-China:				
Saigon.....	May 9-Oct. 23.....	22	21	
Italy, general.				
Genoa.....	May 31-Nov. 21.....	503		
Genoa.....	June 1-Oct. 15.....	21		
Naples.....	May 31-Nov. 21.....	178	71	
Ottiana.....	June 23.....	1		
Rome.....	Mar. 7-13.....	1	1	
Turin.....	Oct. 22-28.....	1		
Japan:				
Formosa.....	June 13-19.....	1		
Moji.....	June 6.....	1		From s. s. Selja.
Osaka.....	Jan. 1-May 31.....	3		
Yokohama.....	June 1-7.....	1		
Java:				
Batavia.....	May 6-Sept. 11.....	31	1	
Malta:				
Valetta.....	Sept. 11-18.....	3		
Mauritius:				
Port Louis.....	Apr. 1-30.....	1	1	
Mexico:				
Acapulco.....	Oct. 19-25.....	1		
Aguascalientes.....	June 21-Nov. 21.....		4	
Chihuahua.....	Aug. 16-Nov. 21.....	2		
Guadalajara.....	June 11-Sept. 9.....		4	
Medellin.....	Oct. 31.....	1		Oct. 24, present in vicinity.
Mexico.....	May 16-Nov. 6.....		95	
Monterey.....	June 14-Nov. 28.....		32	
Soledad.....	Oct. 24.....	3		
Veracruz.....	June 1-Oct. 31.....	29	9	Aug. 12-Oct. 2, 7 cases imported from Medellin. Oct. 26, 1 case from Orizaba and 1 case on s. s. Montevideo.
Newfoundland:				
St. Johns.....	Sept. 4.....	3		
Norway, general.				
Panama:	Apr. 1-May 30.....	3		
Canal Zone—				
Ancon.....	Mar. 1-31.....	1		At Culebra Island quarantine station; from a vessel.

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

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Gullan, province.....	Oct. 4.....			Present.
Khorassan.....	June 1-30.....			Epidemic.
Kurdistan.....	June 1-30.....			Do.
Mazanderan.....	July 1-Sept. 30.....			Do.
Meshed-I-Sur.....	Sept. 30.....			Present in June; epidemic in vicinity.
Shiraz.....	May 1-31.....			Present.
Turbat-I-Haldari.....	May 1-31.....			Do.
Peru:				
Lima.....	July 4-10.....	1		In the lazaretto.
Mollendo.....	Aug. 28.....			Present.
Philippine Islands:				
Manila.....	May 9-Oct. 23.....	19	8	Fourth quarter, 1908, 28 cases and 8 deaths; first quarter, 1909, 55 cases and 16 deaths; second quarter, 1909, 76 cases and 9 deaths.
Porto Rico:				
Hollo, province.....	July 1-Aug. 31.....	237	142	
Porto Rico.....	Nov. 1-30.....		10	
Potugal:				
Lisbon.....	May 30-Nov. 20.....	161		
Russia:				
Libau.....	May 6-Nov. 21.....	11	1	
Moscow.....	May 16-Nov. 6.....	265	115	
Odessa.....	May 30-Nov. 6.....	125	26	
Riga.....	June 6-Oct. 30.....	81		May 1-Sept. 30, 39 deaths.
St. Petersburg.....	May 16-Nov. 13.....	463	121	
Warsaw.....	Apr. 25-Oct. 9.....		39	
Siam:				
Bangkok.....	Apr. 25-June 28.....	2	1	
Siberia:				
Vladivostok.....	May 15-June 3.....	4	1	
Spain:				
Almeria.....	June 1-Oct. 31.....		17	
Barcelona.....	June 1-Nov. 22.....		83	
Huelva.....	May 1-Oct. 30.....		55	
Madrid.....	May 1-Oct. 31.....		564	
Seville.....	May 1-June 30.....		2	
Tarragona.....	July 20-26.....		1	
Valencia.....	May 20-Oct. 30.....	79	3	
Vigo.....	May 23-Oct. 16.....		18	
Straits Settlements:				
Penang.....	Aug. 15-21.....	1		
Singapore.....	May 16-Oct. 16.....		3	
Switzerland:				
Argau, canton.....	June 20-26.....	1		
Fribourg, canton.....	June 13-19.....	1		
Geneva.....	May 30-June 26.....	9		
Tripoli:				
Tripoli.....	May 23-Nov. 13.....	216	30	
Turkey in Asia:				
Bagdad.....	July 19.....			Present in interior.
Bassorah.....	May 9-Oct. 9.....			Present.
Hadjin.....	May 23-June 26.....			Do.
Smyrna.....	July 19.....			Do.
Turkey in Europe:				
Constantinople.....	May 7-Oct. 15.....		254	
Constantinople.....	May 31-Oct. 31.....		11	
Uruguay:				
Montevideo.....	Apr. 1-Sept. 30.....		25	

Weekly mortality table, foreign and insular cities.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—																
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.						
Acapulco, Mexico.....	Nov. 13	5,000	1																	
Do.....	Nov. 20	5,000	4																	
Aguaascalientes.....	Nov. 14	40,000	36	2																
Do.....	Nov. 21	40,000	35						3	1									1	1
Aix la Chapelle.....	Oct. 30	180,280	47	2															1	1
Do.....	Nov. 6	180,301	54	5															1	2
Amoy.....	Oct. 9	400,000	172		38	37														
Do.....	Oct. 16	400,000	167		39	27														
Do.....	Oct. 23	400,000	153		38	22														
Do.....	Oct. 30	400,000	176		40	30														
Amsterdam.....	Nov. 20	506,665	137	17															3	4
Bahia.....	Oct. 29	265,000	106	8	2				8									1		
Do.....	Nov. 5	265,000	124	23	1				18									1		
Barmen.....	Oct. 30	162,800	37	6							1									1
Barcelona.....	Nov. 15	591,272	375	29				1			9			10						1
Do.....	Nov. 22	591,272	320	34					1		10			7						
Basel.....	Nov. 13	131,000	28	6																1
Bergen.....	do.....	87,749	23	2																
Berlin.....	Nov. 6	2,108,727	562	73							3	17	16	1						7
Bombay.....	Nov. 2	977,822	522	41	3	1			1											
Do.....	Nov. 9	977,822	538	45	8	3					3								1	
Bordeaux.....	Oct. 2	253,000	69	5							1									1
Do.....	Oct. 9	253,000	96	12																
Do.....	Oct. 16	253,000	95	10										2						1
Do.....	Oct. 23	253,000	104	21							1									
Do.....	Oct. 30	253,000	100	18							1									
Do.....	Nov. 6	253,000	75	9																
Do.....	Nov. 13	253,000	107	12																1
Bremen.....	do.....	225,648	57	8							1	2	1	1			2		1	7
Breslau.....	Oct. 30	335,200	193	26							1	1	4	4			5			4
Do.....	Nov. 6	335,200	188	25							3	1	1	1			3			2
Brussels.....	Nov. 13	562,895	199	25								1	2	4						1
Budapest.....	Nov. 6	804,200									7									
Calcutta.....	Oct. 16	847,796	435	24	5	7														
Do.....	Oct. 30	847,796	491	25	10	9														
Canton.....	Oct. 23	1,000,000	200	25							5									
Do.....	Oct. 30	1,000,000	200	20																
Chemnitz.....	Nov. 6	277,914	79	9							4									
Do.....	Nov. 13	277,914	23	11								1		3						
Chihuahua.....	Nov. 14	37,000	18	2																
Do.....	Nov. 21	37,000	16	3										1						
Christiania.....	Nov. 13	236,000	57	6									2				1			
Coburg.....	do.....	23,445	4	1																
Cognac.....	do.....	19,483	10	1																
Cologne.....	Nov. 6	472,341	144	17							1	2	1	1			1			6
Do.....	Nov. 13	472,341	147	12								5	3	2			2			5
Colon.....	do.....	16,000	13	4																
Constantinople.....	Nov. 14	1,000,000	239	40																
Dalny.....	Oct. 16	39,813	26	1			2					2								
Do.....	Oct. 23	39,813	19																	
Do.....	Nov. 1	39,813	13	1			2													
Do.....	Nov. 6	39,813	17									3								
Dresden.....	Nov. 13	550,100	152	19										4						1
Erfurt.....	Oct. 30	107,497	26	4										2						1
Do.....	Nov. 6	107,497	29	1																
Do.....	Nov. 13	108,449	28	4																2
Fiume.....	do.....	50,811	17	5																
Flushing.....	Nov. 20	21,208	6																	
Frankfort on the Main.....	Oct. 30	368,800	80									1	1							
Do.....	Nov. 6	368,800	86											2			1			
Geneva.....	do.....	121,500	27																	
Glasgow.....	Nov. 19	872,021	566								1	4	10	1			7	22		5
Gothenburg.....	Nov. 13	162,400	34	11									1							
Greenock.....	Nov. 20	72,300	23	2																1
Guadalajara.....	Nov. 18	125,000	62										4							
Guayaquil.....	Nov. 6	75,000	97	11	16		2													2
Do.....	Nov. 13	75,000	72	6	18		6													2
Halifax.....	Nov. 27	50,000	21	3																
Hamburg.....	Nov. 13	872,252	240	26										3			7			1
Hongkong.....	Oct. 30	336,488																		
Kobe.....	Nov. 6	380,717	215		13	1											1			
Konigsberg.....	do.....	240,000	95	7														3		
Do.....	Nov. 13	240,000	90	9														1		1
La Guaira.....	Nov. 6	10,000	9	1									1							
Leipzig.....	do.....	537,686	130	14							1	1				2	1			
Do.....	Nov. 13	537,686	162	17							1	2				3	3			

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Leipzig	Nov. 13	537,686	162	17					1	2		3	3	
Libau	Nov. 21	90,000						1						
Liege	Oct. 30	175,738	52	7									1	
Lubeck	Nov. 13	97,500	33	4						2				
Madras	Oct. 29	509,346	374					1					1	
Do	Nov. 5	509,346	371										1	
Managua	Nov. 6	22,278	13	1										
Manaos	Nov. 13	52,000	24	2			1							
Mannheim	Oct. 30	184,532	40	7										1
Do	Nov. 6	184,532	33	2										
Mexico	do.	400,000	305	29				1	4	1		2	1	2
Monterey	Nov. 28	100,000	41	5				1						
Montreal	Nov. 27	389,837	150	14				1		3		9	1	1
Moscow	Oct. 30	1,500,000	793	83					1	5	51	32	17	11
Do	Nov. 6	1,500,000	685	84				1		7	42	29	8	17
Munich	do.	566,000	173	29						1		2		
Nagasaki	Oct. 31	175,936	46	5								1		
Do	Oct. 7													
Niagara Falls	Nov. 30		18											
Nuremberg	Oct. 30	316,180	93	21						1	2	1		
Do	Nov. 6	316,180	88	15						1				
Odessa	Oct. 30	520,000	281	21				2		7	23	8	5	
Do	Nov. 6	520,000	264	22				1		12	29	11	4	
Do	Nov. 13	520,000	203	9				1		8	31	5	4	1
Para	do.	185,000	82	11				1						
Do	Nov. 20	185,000	78	7			2							
Patras	Nov. 15	40,000	12	4						1				
Plymouth	Nov. 20	124,180	42											1
Port of Spain	Nov. 6	60,000	26	3						1				
Do	Nov. 13	60,000	32	6										
Prague	Nov. 6	229,965	106	27						1	1	1		
Do	Nov. 13	223,649	102	27						1	1	2		
Quebec	Nov. 27										2	2		
Rangoon	Oct. 23	252,155	197	4				3	2					
Do	Oct. 30	252,155	183		3	5							1	
Rio de Janeiro	Nov. 1	811,443	206	44				3					3	1
Rotterdam	Nov. 20	416,383	103											
Saigon	Oct. 16	206,000			2					1				
Do	Oct. 23	206,000	4		3			1						
St. John	Nov. 27	40,811	17	1										1
Do	Dec. 4		13	2										
St. Petersburg	Oct. 12	1,678,000	603	105				34		7	16	20	27	11
Do	Oct. 23	1,678,000	738	86				58		9	7	10	13	24
Do	Nov. 6	1,678,000	681	112				25		9	9	14	18	27
Do	Nov. 13	1,678,000	680	111				18		9	1	14	13	21
Santa Cruz	do.	46,000	22	3									2	
Sheldam	Nov. 20	31,863	10	1										
Shanghai	Oct. 9	550,000	210	17										
Do	Oct. 16	550,000	220	18										
Do	Oct. 23	550,000	175	16								1		
Singapore	Oct. 16	271,060	209	33				1		2				
Southampton	Nov. 20	124,667	30	3										1
Stettin	do.	238,000	77	7								3		
Stockholm	Oct. 30	339,582	80	19								2		1
Tripoli	Nov. 6	42,000		3							1			
Do	Nov. 13	42,000		2										
Turin	Oct. 28	381,439	110	16										
Do	Nov. 4	381,439	120	11						2				
Valencia	Oct. 30	240,000	69	10										
Venice	Oct. 2	179,286	63	11						1				
Do	Oct. 9	179,286	48	6								1		
Do	Oct. 16	179,286	51	5										
Do	Oct. 23	179,286	64	7								1		
Do	Oct. 30	179,286	47	7										
Do	Nov. 6	179,286	64	5						2		1		
Veracruz	Nov. 20	32,000	24	5										
Vienna	Nov. 13	2,085,888	556	87						2	1	6	2	
Vladivostok	Oct. 5	85,004	54	3				29						
Do	Oct. 13	85,004	19	2				14		1				
Do	Oct. 21	85,004	24	6				10						
Warsaw	Sept. 25	764,054	344	60					3	1	3	15	6	3
Do	Oct. 9	764,054	297	39					7	1	3	3	10	4
Winnipeg	Nov. 27	122,000	35											
Yarmouth	do.	6,700										1		
Do	Dec. 4	6,700		15										
Yokohama	Nov. 8	392,870										1		

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES—UN-TABULATED.

ARGENTINA—Buenos Aires.—Month of September, 1909. Estimated population, 1,214,646. Total number of deaths, 1,629, including diphtheria 4, measles 13, scarlet fever 3, typhoid fever 6, whooping cough 2, and 174 from tuberculosis.

CANADA—Quebec—Sherbrooke.—Month of November, 1909. Estimated population, 15,300. Total number of deaths, 16, including 2 from tuberculosis.

FRANCE—St. Etienne.—Two weeks ended November 15, 1909. Estimated population, 150,000. Total number of deaths, 122, including scarlet fever 1, typhoid fever 1, and 22 from tuberculosis.

GREAT BRITAIN AND IRELAND.—Week ended November 13, 1909.

England and Wales.—The deaths registered in 76 towns having an aggregate estimated population of 16,445,281, correspond to an annual rate of 13.8 per 1,000.

Ireland.—The deaths registered in 21 principal town districts having an aggregate estimated population of 1,142,308, correspond to an annual rate of 19.2 per 1,000. The lowest rate was recorded at Drogheda, viz, 4.1, and the highest at Portadown, viz, 31 per 1,000.

Scotland.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,865,571 show a total of 566, including diphtheria 7, measles 22, scarlet fever 10, typhoid fever 4, typhus fever 1, and 5 from whooping cough.

ITALY—Genoa.—Two weeks ended October 31, 1909. Estimated population, 279,163. Total number of deaths, 165, including diphtheria 1, smallpox 1, typhoid fever 1, and 29 from tuberculosis. Two weeks ended November 15, 1909. Total number of deaths, 177, including diphtheria 3, and 23 from tuberculosis.

PORTO RICO.—Month of November, 1909. Estimated population, 1,053,963. Total number of deaths, 184, including diphtheria 3, measles 2, smallpox 10, typhoid 17, and 151 from tuberculosis.

SAMOA—Tutuila.—Month of September, 1909. Estimated population, 6,200. Total number of deaths, 17, including 1 from tuberculosis. Month of October, 1909. Total number of deaths, 20, including 1 from tuberculosis.

SPAIN—Almeria.—Month of October, 1909. Estimated population, 50,910. Total number of deaths not reported. Five deaths from typhoid fever, 4 from measles, 3 from scarlet fever, and 3 from smallpox reported.

Seville.—Month of October, 1909. Estimated population, 148,315. Total number of deaths, 367, including diphtheria 1, scarlet fever 1, typhoid fever 1, and 77 from tuberculosis.

The following cases of and deaths from smallpox, yellow fever, cholera, and plague have been reported to the Surgeon-General, Public Health and Marine-Hospital Service, during the week ended December 17, 1909:

SMALLPOX—UNITED STATES.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Montgomery.....	Nov. 20-27.....	23		
California:				
San Francisco.....	do.....	1		
Colorado:				
Fruita.....	do.....	8		
Connecticut:				
Stamford.....	Nov. 1-30.....	1		
Indiana:				
Marion.....	Nov. 27-Dec. 4.....	1		
South Bend.....	Nov. 23-30.....	4		
Kansas:				
Independence.....	Nov. 27-Dec. 4.....	2		
Louisiana:				
New Orleans.....	do.....	1		
Michigan:				
Bay City.....	Nov. 28-Dec. 4.....	3		
Minnesota:				
Duluth.....	Nov. 20-Dec. 4.....	4		
Mississippi:				
Brookhaven.....	Oct. 30-Nov. 6.....	1		
Natchez.....	Nov. 20-27.....	5		
Missouri:				
St. Louis.....	Nov. 27-Dec. 4.....	3		
Montana:				
Stevensville.....	Nov. 20-27.....	1		
North Carolina:				
Charlotte.....	Nov. 20-Dec. 4.....	8		
Hickory.....	Oct. 30-Nov. 6.....	1		
	Nov. 20-27.....	3		
Ohio:				
Dayton.....	Nov. 20-Dec. 4.....	6	1	
Tennessee:				
Memphis.....	Nov. 20-27.....	2		
Nashville.....	Nov. 27-Dec. 4.....	1		
Texas:				
Paris.....	Nov. 20-27.....	29		
Vermont:				
Smithfield.....	do.....	1		
Wisconsin:				
La Crosse.....	do.....	1		
Superior.....	do.....	1		

SMALLPOX—INSULAR.

Porto Rico.....	Nov. 1-30.....		10	
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SMALLPOX—FOREIGN.

Brazil:				
Bahia.....	Oct. 22-Nov. 5.....	32	26	
Rio de Janeiro.....	Oct. 24-Nov. 1.....	3		
Chile:				
Valparaiso.....	Oct. 30-Nov. 6.....			Present.
India:				
Bombay.....	Nov. 2-9.....		1	
Madras.....	Oct. 23-29.....		1	
Rangoon.....	Oct. 16-23.....		1	
Indo-China:				
Saigon.....	do.....	1	1	
Italy, general.....	Nov. 14-21.....	16		
Naples.....	do.....	6	2	
Turin.....	Oct. 21-28.....	1		
Java:				
Batavia.....	Oct. 16-23.....	5	1	
Mexico:				
Aguascalientes.....	Nov. 14-21.....		3	
Chihuahua.....	do.....	1		
Mexico City.....	Oct. 30-Nov. 6.....		1	
Monterey.....	Nov. 21-28.....		1	
Portugal:				
Lisbon.....	Nov. 13-20.....	11		

SMALLPOX—FOREIGN—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				
Libau.....	Nov. 7-14.....	5	1	
Moscow.....	Oct. 23-Nov. 6.....	4	1	
Odessa.....	Oct. 23-Nov. 13.....	19	4	
Riga.....	Oct. 23-30.....	7		
St. Petersburg.....	Oct. 5-Nov. 13.....	94	36	
Warsaw.....	Sept. 19-Oct. 9.....		10	
Spain:				
Almeria.....	Oct. 1-31.....		3	
Barcelona.....	Nov. 8-22.....		2	
Valencia.....	Oct. 23-30.....	1		
Straits Settlements:				
Singapore.....	Oct. 9-16.....		1	
Tripoli:				
Tripoli.....	Oct. 31-Nov. 13.....	7		

YELLOW FEVER.

Brazil:				
Manaos.....	Nov. 6-13.....		1	
Para.....	Nov. 6-20.....	6	3	
Ecuador:				
Guayaquil.....	Oct. 31-Nov. 13.....		8	
Mexico:				
Merida.....	Nov. 29.....	1		
Peto.....	Nov. 26.....	1		

CHOLERA.

India:				
Bombay.....	Oct. 27-Nov. 9.....		4	
Calcutta.....	Oct. 9-16.....		7	
	Oct. 23-30.....		9	
Rangoon.....	Oct. 16-30.....		7	
Japan:				
Osaka.....	Nov. 17.....	1		
Java:				
Batavia.....	Oct. 26.....			Present.
Manchuria:				
Dalny.....	Oct. 9-16.....		2	
	Oct. 25-Nov. 1.....		2	
Russia in Asia:				
Vladivostok.....	Sept. 22-Oct. 21.....	115	83	
Russia in Europe, general	Oct. 31-Nov. 6.....	172	78	
St. Petersburg.....	do.....	81	20	
St. Petersburg, government.....	do.....	22	11	

PLAGUE.

Brazil:				
Bahia.....	Oct. 22-Nov. 5.....	7	3	
Rio de Janeiro.....	Oct. 25-Nov. 1.....	2		
China:				
Hankow.....	Dec. 7.....			Present.
Ecuador:				
Guayaquil.....	Oct. 9-23.....		21	
	Oct. 30-Nov. 13.....		34	
India, general	Oct. 23-30.....	4,287	3,456	
Bombay.....	Oct. 27-Nov. 9.....		11	
Calcutta.....	Oct. 9-16.....		5	
	Oct. 23-30.....		10	
Rangoon.....	Oct. 16-30.....		6	
Indo-China:				
Saigon.....	Oct. 9-23.....	5	5	
Japan:				
Kobe.....	Nov. 17.....			Do.
Osaka.....	do.....	1		

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.