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## PRELIMINARY NOTE ON A SIMPLE AND INEXPENSIVE APPARATUS FOR USE IN SAFE DISPOSAL OF NIGHT SOIL.

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The proper disposal of human excreta is recognized by sanitarians as the most important single measure needed to prevent the spread of typhoid fever, hookworm disease, the dysenteries, and certain other widely prevalent diseases.

Where large numbers of people are gathered together, as in cities, the removal of dejecta from persons becomes, from an esthetic standpoint at least, a necessity, and practically all modern cities have expended large sums of money to install sewerage systems, which, though usually removing the sewage in such a way as to prevent it from becoming an intolerable nuisance to sight and smell, yet frequently fall short of safety from a sanitary standpoint.

Though a city may dispose of its own sewage properly, its people are exposed to excreta-borne infections brought in on various food supplies from farms. Thus the sanitation of the farm is vastly important, not only to the rural population, but also to the urban, and therefore the farm as the fountain head of various and far-flowing streams of infection is the logical point to attack in campaigns of prevention against many of the communicable diseases.<sup>a</sup>

Among the obstacles to progress in farm sanitation, one of the chief has been the difficulty of convincing the farmer that the benefits which would accrue from proper disposal of excreta would justify the expense of constructing and the disagreeable labor of maintaining the sanitary devices proposed. Therefore, whatever can be done in simplification and in lessening expense and labor in the installation and maintenance of an efficient disposal system will increase the chances of its adoption.

The apparatus described in this note has been in use in one of the workrooms of the Hygienic Laboratory since July 12, 1910. It has been seen by a number of sanitarians from different sections of the country, and several of them have expressed a desire to test it for

<sup>a</sup> Freeman, Allen W., *The Farm the Next Point of Attack in Sanitary Progress.* Jour. A. M. A., August 27, 1910.

themselves. The details of construction are presented at this time in order to place them at the disposal of any persons who may desire to test the apparatus in question.

*Starting point of studies.*—Starting out on the principle that the forces of nature in fermentation should, if possible, be utilized, we have sought to meet the objections that have thus far occurred to us in respect to the wet system. Further, the importance of economy and of simplicity of construction has been constantly held in mind. An effort has also been made to reduce to a minimum the labor and skill involved in taking care of the privy, and, finally, while sanitary safety has been the chief object in mind, we have not ignored the widespread demand that human excreta be turned to economic account.

*Construction.*—The apparatus under consideration consists of the following parts:

1. A water-tight barrel to be used as a liquefier.
2. A covered water-tight barrel, can, or other container to receive the effluent.
3. A connecting pipe about 2½ inches in diameter, about 12 inches long, and provided with an open "T" at one end, both openings of the "T" being covered by wire screens.
4. A tight box, preferably zinc lined, which fits tightly on the top of the liquefying barrel; it is provided with an opening on top for the seat, which has an automatically closing lid.
5. An antislashing device consisting of a small board placed horizontally under the seat and 1 inch below the level of the transverse connecting pipe; it is held in place by a rod, which passes through eyes or rings fastened to the box, and by which the board is raised and lowered. The liquefying tank is filled with water up to the point where it begins to trickle into the effluent tank.

As an insect repellant a thin film of some form of petroleum may be poured on the surface of the liquid in each barrel.

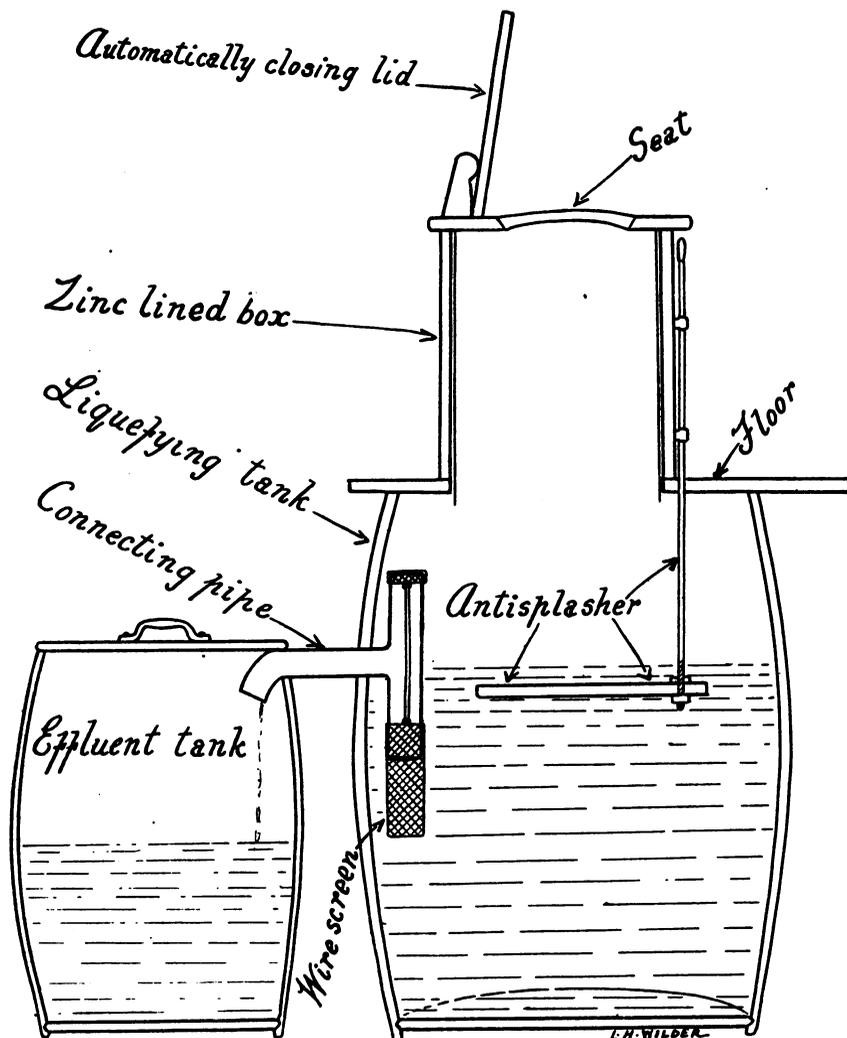
*Practical working of the apparatus.*—When the privy is to be used, the rod is pulled up so that the antislashing board rises to within about 1 inch below the surface of the water. The fecal matter falls into the water, but this board prevents splashing, and thus meets one of the greatest objections thus far raised to the wet system. After defecation the person sinks the antislashing board by depressing the rod, and the fecal matter then floats free into the water. We are now working on an improvement whereby the rod will connect with the automatically closing lid, and the antislashing board will rise and sink as the lid is opened and closed.

Although some of the fecal matter floats, it is protected both from fly breeding and fly feeding, in the following ways: First, by the automatically closing lid; second, by the water; third, by the film of oil; and fourth, for additional safety, the apparatus should be located in a screened place. The film of oil also prevents the breeding of mosquitoes in the barrel. Accordingly, so far as the privy as a breeding or feeding place for flies and mosquitoes is concerned, the model in question completely solves the problem.

The fecal material becomes fermented in the water and gradually liquefies; the addition of excreta naturally raises the level of the liquid, and the excess flows into the effluent tank, where it is protected from insects by the cover and by the film of oil. This effluent may

be allowed to collect in the tank until it reaches the level of the connecting pipe, when it may be safely disposed of in various ways to be discussed later.

From July 12 to October 26 there have been 246 defecations (with urination) into the model in question, making about  $2\frac{1}{2}$  defecations a day. The effluent has amounted to about 12 gallons of a manageable fluid. It has not been found necessary to add water to the liquefying barrel since the apparatus was put into operation.



Although the period in question included the hottest part of summer, the odor when compared with that of the average privy has been negligible.

It is thus seen that this device appears to meet the following requirements:

1. It solves the fly and mosquito problems, so far as the privy is concerned.

2. It liquefies fecal matter and reduces its volume so that it may be safely disposed of more easily and cheaply than night soil.
3. It reduces odor.
4. It reduces the labor of cleaning the privy and makes this work less disagreeable.
5. It is of simple and inexpensive construction.

The effect of the fermentative changes in the apparatus upon the viability of typhoid bacilli and hookworm eggs has not been determined, but other experiments tend to show that under such conditions the vast majority of typhoid bacilli and of hookworm eggs introduced would die within six weeks to two months time. While the time of storage can be prolonged according to the capacity of vessels provided for the purpose, we believe at present that it is safer and more practical not to depend upon storage alone to destroy infectious organisms in the effluent, but to consider the effluent infectious and to dispose of it accordingly.

*Disposal of effluent.*—(1) Heat: If a suitable (metallic) vessel is provided to receive the effluent, a fire may be built under the vessel and the effluent heated to boiling. Or if a wooden or concrete effluent tank is used, the effluent may be transferred to some other vessel for boiling.

After boiling, the fluid may be safely used for fertilizer under any conditions.

Heat disinfection is the only measure which can to-day be recommended unreservedly.

(2) Burial: Burial will unquestionably decrease the dangers of spreading infection, but in the present state of our knowledge this method of disposal can not be relied upon as safe. If burial of the effluent is practiced, the fluid should be disposed of not less than 300 feet from and down hill from any neighboring water supply and not less than 2 feet underground, and then only provided the soil itself is a good filter. Burial in a limestone region may contaminate water supplies miles away.

(3) Chemical disinfection: Chemical disinfectants, such as chlorinated lime and certain coal-tar derivatives, have the great advantage of cheapness and can be relied upon to destroy pathogenic bacteria. Our knowledge regarding the action of chemical disinfectants upon the eggs and spores of the various animal parasites is at present very rudimentary, but so far as results are known, their practicable use does not seem to be so efficient in the destruction of the zooparasitic as of the bacterial infectious organisms. Therefore, pending further investigations, the use of chemically treated excrement as fertilizer should not be regarded as unqualifiedly safe.

(4) Chemical disinfection with subsequent burial: Inasmuch as chemical disinfection can be relied upon to destroy pathogenic bacteria, and inasmuch as burial greatly reduces the danger from animal parasites, a suitable combination of the two methods (chemical disinfection and burial) can be used with reasonable safety.

(5) Sewers: In partially sewered towns, the effluent from these privies may be emptied into the sewers. If conditions are such that the addition of this material to the sewage is dangerous, then the entire sewerage system needs correction.

*Paper.*—Only toilet paper so far has been used, and the septic action seems to digest it. Other experiments indicate that news-

paper would be disposed of by septic action in the tank, but perhaps some increase in the size of the tank would be required.

*Cleaning.*—Although no water has been added since the model was put into operation, the contents of the liquefying tank have remained fluid, and it is probable that in a tank having the capacity of an oil barrel, the amount of sludge from the dejecta of a family of five people would not be sufficient to require the cleaning of the liquefying tank oftener than once in six months to a year.

*Further experiments.*—At present our studies are taking the following general directions:

While the barrel as the liquefying tank doubtless will be found to be the most feasible in many localities, it seems probable that tanks made of concrete or other durable material will be more satisfactory in certain instances, and we are now having concrete models built.

We are also planning the construction of a series of privies of this type all of which shall connect with a common effluent pipe so as to have one common effluent tank. A system of this kind appears to be of special applicability to small villages, such as cotton-mill settlements. The effluent tank would be at the lower end of the row, and should be attended to by the proper authorities.

A third line of study is being made with a view to determining the possibility of utilizing safely the effluent for economic purposes. The effluent tank can be filled with gravel and soil, and possibly some plant may be found which will be able to grow in this material, perhaps thus safely utilizing the fecal material as fertilizer. If a suitable plant can be found, it is clear that the labor of disposing of the effluent will be eliminated, and if the plant is of economic value, one, for instance, which could be used as food for live stock, an additional inducement can be offered to the farmer to live a more sanitary life.

The device should be regarded as being still in the experimental stage, but so far as the experiments have gone the results are promising and indicate that with some modification of details to meet different conditions the apparatus may have a wide range of usefulness.

SECOND INTERNATIONAL CONFERENCE FOR THE STUDY OF CANCER (PARIS, OCTOBER 1-5, 1910) AND NINTH INTERNATIONAL ANTITUBERCULOSIS CONFERENCE (BRUSSELS, OCTOBER 5-8, 1910).

By REID HUNT, Professor of Pharmacology, Hygienic Laboratory, United States Public Health and Marine-Hospital Service.

THE SECOND INTERNATIONAL CONFERENCE FOR THE STUDY OF CANCER.

The minister of public instruction presided and made an address at the opening session; other addresses were made by the president of the conference, the dean of the faculty of medicine, the president of the French society for the study of cancer, and the delegates from foreign countries. The president of the conference, Professor Czerny, stated that recent statistics show that cancer is increasing and that in some countries it ranks second as the cause of death in adults. He expressed the opinion that the subject of etiology could best be approached by a thorough, detailed study of the conditions under which individual patients live. The subsequent meetings were entirely of a scientific and technical character. The papers and discussions related almost exclusively to the disease as it occurs in man, the communications on the occurrence of cancer in the lower animals being less numerous than at the first conference. The subjects were discussed under six heads: (1) Histology and histological diagnosis; (2) Statistics; (3) Clinical diagnosis; (4) Therapeutics; (5) Etiology and experimental pathogenesis; (6) Comparative pathology. A number of formal reports, by distinguished investigators, were presented upon each of these subjects; these reports were then discussed. Among the points especially emphasized under the first heading (Histology and histological diagnosis) was the need of a uniform international classification and nomenclature of cancer based upon histology; an outline for such a classification was presented by Delbet, Menetrier, and Herrenschmidt. A committee was appointed to report on the subject at the next conference. Upon the second subject (Statistics) exhaustive reports were made by a number of authorities. These reports dealt with the methods of collecting, tabulating, and interpreting statistics of mortality and morbidity from cancer rather than with the results themselves. The importance of collecting statistics as to the duration of the disease was also emphasized. Some striking figures were presented as to the extent of cancer, the mortality from this disease being in some places almost as high as that from tuberculosis. It was pointed out that there is a higher death rate from cancer among women in the United States, as compared with men, than in any other country. The death rate from cancer of the stomach was stated to be especially high in the United States.

More time was devoted to the laboratory diagnosis and to the treatment of cancer than to any other subjects. Very complete reports were presented on the diagnosis of cancer by examination of the blood, and the various methods proposed were critically examined. The question of the better education of the medical profession in the early diagnosis of cancer and the methods of educating the laity as to the importance of its early diagnosis were discussed in detail. Under therapeutics, especial attention was given to the nonsurgical treatment (X rays, fulguration, radium, serum, and vaccine therapy), although two reports on the surgical treatment were presented. Nearly all the speakers agreed that the nonsurgical forms of treatment have but a limited field of usefulness. In the fifth section (Etiology and experimental pathogenesis) very interesting reports were submitted by Van Dungen on immunity, and by Borrel on parasitism and tumors. The relation of traumatism to cancer and the legal questions arising therefrom were discussed in detail. In the sixth section (Comparative pathology) a report was made upon the tumors of lower animals and the points in which they resemble and those in which they differ from those in man were discussed. No evidence was presented that the cancers of lower animals are ever transmitted to man, but it was generally recognized that in many, although by no means in all, of the tumors of the lower animals similar pathological processes occur as in man.

The members of the conference were the recipients of much hospitality on the part of the officers and members of the French association for the study of cancer, under whose auspices the conference was held, and from the municipal authorities of Paris. Twenty-three of the leading countries of the world were officially represented.

#### ANTITUBERCULOSIS CONFERENCE.

I arrived in Brussels the night of October 5 and attended all of the sessions of the Ninth International Antituberculosis Conference, beginning on the morning of October 6. The meetings were held, for the most part, in the palace of the governor of Brabant, who was president of the committee of organization. The first session was under the presidency of M. Berryer, minister of the interior of Belgium, who made the opening address. M. Beco, governor of Brabant, and M. Bourgeois, president of the international antituberculosis association, also made addresses. The opening addresses were followed immediately by a scientific session, at which the questions of congenital tuberculosis infection and predisposition to tuberculosis were discussed in great detail. Among those taking a very active part in this discussion were Landouzy, Arloing, Aufrecht, Calmette, Guerin, Raw, Renon, and a number of others. The discussion of this subject was continued at the afternoon session. At the third session the subjects of the "Protection of children from tuberculosis" and "Tuberculosis and the school" were discussed from many standpoints. The afternoon session was devoted to the subject of the influence of women in the campaign against tuberculosis and to a public lecture by Calmette.

At the closing session reports on the progress of the campaign against tuberculosis in the following countries were presented: Germany, Austria, Belgium, United States (by Doctor Ravenel), Denmark,

France, England, Bulgaria, Italy, Roumania, Switzerland, Greece, Russia, Sweden, and Holland. Several of the special commissions of the conference also made reports (for the most part preliminary). Thus the board of management reported on the plans for the meeting and exhibitions at Rome next year; the commission on sanatoria submitted a detailed report (to be published soon in "Tuberculosis") dealing especially with the cost of public sanatoria for adults; the commission on solar radiation reported briefly on experiments on the effects of light upon metabolism; the commission on international statistics made a number of recommendations as to the manner of collecting and tabulating statistics of mortality and morbidity from tuberculosis. The commission on milk stated that they had been able to have only a preliminary meeting and had no report to submit.

In addition to the formal discussions and reports a number of communications on various phases of tuberculosis were presented. Arrangements were made for visits to the tuberculosis hospitals and dispensaries at Antwerp, Liege, and Namur.

# UNITED STATES.

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

## PLAGUE-PREVENTION WORK.

### DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities on San Francisco Bay, 950 acres of land in Contra Costa County and 580 in San Mateo County were covered with poison during the week ended October 22, 1910.

#### Record of Plague Infection.

Place.	Date of last case of human plague.	Date of last case of rodent plague.	Total number of rodents found infected since May, 1907.
<b>California:</b>			
<b>Cities—</b>			
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	398 rats.
Oakland.....	Oct. 26, 1909	Dec. 1, 1908	126 rats.
Berkeley.....	Aug. 28, 1907	None recorded.	
Los Angeles.....	Aug. 11, 1908	Aug. 21, 1908	1 squirrel.
<b>Counties—</b>			
Alameda (exclusive of the city of Oakland)...	Sept. 26, 1909	May 30, 1910	88 squirrels, 1 wood rat.
Contra Costa.....	July 21, 1908	Sept. 10, 1910	247 squirrels.
Mered.....	None recorded.	June 6, 1910	2 squirrels.
Monterey.....	do.	do.	4 squirrels.
San Benito.....	June 5, 1910	July 11, 1910	20 squirrels.
San Joaquin.....	None recorded.	Aug. 19, 1910	6 squirrels.
San Luis Obispo.....	do.	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Sept. 5, 1910	Oct. 5, 1910	23 squirrels.
Santa Cruz.....	None recorded.	May 17, 1910	3 squirrels.
Stanislaus.....	do.	May 21, 1910	5 squirrels.
<b>Washington:</b>			
Seattle.....	Oct. 30, 1907	Feb. 8, 1910	22 rats.

#### Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
<b>California:</b>					
Berkeley.....	Oct. 22	0	a 129	129	.....
Oakland.....	do.	29	b 651	554	.....
San Francisco.....	do.	64	c 1,714	1,120	.....
<b>Total.....</b>		<b>93</b>	<b>2,494</b>	<b>1,793</b>	<b>.....</b>

a Identified, *Mus norvegicus* 97, *Mus musculus* 32.

b Identified, *Mus norvegicus* 551, *Mus rattus* 2, *Mus musculus* 97, *Mus alexandrinus* 1.

c Identified, *Mus norvegicus* 1,159, *Mus rattus* 95, *Mus musculus* 360, *Mus alexandrinus* 100.

**Squirrels Collected and Examined for Plague Infection.**

Place.	Week ended—	Trapped and shot.	Found dead.	Examined.	Found infected.
<b>California:</b>					
<b>Cities—</b>					
San Francisco.....	Oct. 22	25	0	25	.....
<b>Counties—</b>					
Calaveras.....	do.....	62	0	62	.....
Contra Costa.....	do.....	203	15	218	.....
Fresno.....	do.....	73	0	73	.....
Los Angeles.....	do.....	220	28	234	.....
Madera.....	do.....	16	0	16	.....
Merced.....	do.....	121	0	121	.....
Monterey.....	do.....	319	0	310	.....
Sacramento.....	do.....	219	0	215	.....
San Joaquin.....	do.....	242	0	233	.....
San Luis Obispo.....	do.....	842	0	801	.....
San Mateo.....	do.....	27	43	70	.....
Santa Clara.....	do.....	47	0	47	.....
Solano.....	do.....	137	0	137	.....
Tuolumne.....	do.....	68	0	68	.....
<b>Total.....</b>		<b>2,611</b>	<b>43</b>	<b>2,630</b>	.....

**Other Animals Collected and Examined.**

Place.	Week ended—	Animals collected.	Examined.	Found infected.
<b>California:</b>				
<b>Cities—</b>				
San Francisco.....	Oct. 22	1 gopher..... 1 skunk..... 6 owls.....	1	.....
<b>Counties—</b>				
Calaveras.....	do.....	1 rabbit.....	1	.....
Fresno.....	do.....	2 rabbits.....	2	.....
Los Angeles.....	do.....	1 field mouse.....	2	.....
	do.....	1 owl.....	1	.....
Santa Clara.....	do.....	1 weasel.....	1	.....
Tuolumne.....	do.....	3 rabbits.....	3	.....
<b>Total.....</b>			<b>10</b>	.....

**SMALLPOX IN THE UNITED STATES.**

In the following tables the States indicated by an asterisk are those from which reports of smallpox are received only from certain city, and in some cases county, boards of health. In these States, therefore, the recorded cases and deaths should not be taken as showing the general prevalence of the disease. In the States not marked by an asterisk the reports are received monthly from the state boards of health and include all cases reported throughout the State.

**Reports Received During Week Ended November 11, 1910.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Colorado:</b>				
Archuleta County.....	Oct. 1-31.....	7	.....	
Boulder County.....	Oct. 1-31.....	1	.....	
Conejos County.....	Oct. 1-31.....	2	.....	
Denver County.....	Oct. 1-31.....	41	.....	
Fremont County.....	Oct. 1-31.....	1	.....	
Garfield County.....	Oct. 1-31.....	1	.....	
Huerfano County.....	Oct. 1-31.....	5	.....	
La Plata County.....	Oct. 1-31.....	4	.....	
Las Animas County.....	Oct. 1-31.....	1	.....	
Mesa County.....	Oct. 1-31.....	1	.....	
Montezuma County.....	Oct. 1-31.....	2	.....	
Teller County.....	Oct. 1-31.....	6	.....	
<b>Florida:</b>				
Hillsboro County.....	Oct. 23-29.....	2	.....	
Leon County.....	Oct. 23-29.....	1	.....	
Osceola County.....	Oct. 23-29.....	25	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see Public Health Reports for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
<b>* Alabama:</b>				
Birmingham.....	June 12-Aug. 6.....	11		
Mobile.....	June 12-Oct. 8.....	20		
Montgomery.....	June 12-25.....	6		
Total for State.....		37		
<b>* Arkansas:</b>				
Fort Smith.....	June 19-25.....	1		
<b>California, general.....</b>				
Amador County.....	July 1-Aug. 31.....	2		
Hamlet County.....	Aug. 1-31.....	2		
Los Angeles County.....	July 1-31.....	1		
Sacramento County.....	Aug. 1-31.....	1		
San Francisco County.....	July 1-Aug. 31.....	2		
San Joaquin County.....	July 1-Aug. 31.....	4		
Santa Clara County.....	July 1-31.....	2		
Total for State.....		41		
<b>Colorado:</b>				
Conejos County.....	Apr. 1-30.....		1	} Received out of date.
Las Animas County.....	Mar. 1-Apr. 30.....		2	
Logan County.....	May 1-31.....		1	
Montrose County.....	Apr. 1-30.....		1	
Adams County.....	July 1-31.....	3		
Archuleta County.....	June 1-Sept. 30.....	18		
Chaffee County.....	July 1-Aug. 31.....	3		
Clear Creek County.....	Aug. 1-31.....	1		
Conejos County.....	June 1-Aug. 31.....	4		
Delta County.....	June 1-30.....	2		
Denver County.....	June 1-Sept. 30.....	51		
El Paso County.....	July 1-Aug. 31.....	3		
Huerfano County.....	June 1-Sept. 30.....	19		
Kit Carson County.....	June 1-30.....	4		
Larimer County.....	June 1-30.....	1		
Las Animas County.....	June 1-Aug. 31.....	7		
Logan County.....	June 1-30.....	1		
Mesa County.....	June 1-30.....	1		
Montezuma County.....	Sept. 1-30.....	1		
Montrose County.....	June 1-30.....	5		
Otero County.....	June 1-Sept. 30.....	5		
Frowers County.....	June 1-Sept. 30.....	17		
Pueblo County.....	July 1-31.....	1		
Rio Grande County.....	June 1-30.....	4		
Saguache County.....	June 1-July 31.....	13		
San Miguel County.....	June 1-30.....	1	1	
Teller County.....	June 1-Sept. 30.....	6		
Weid County.....	June 1-30.....	5		
Total for State.....		183	6	
District of Columbia.....	July 3-Sept. 17.....	15		
Total for District.....		15		
<b>Florida:</b>				
Brevard County.....	Aug. 7-13.....	1		
Duval County.....	June 19-25.....	2		
Gadsden County.....	July 3-Oct. 22.....	12		
Hillsboro County.....	July 17-Aug. 6.....	2		
Jackson County.....	June 19-Aug. 6.....	3		
Jefferson County.....	July 10-Aug. 6.....	4		
Leon County.....	Mar. 1-31.....		1	
Liberty County.....	July 17-23.....	14		
Santa Rosa County.....	July 31-Aug. 6.....	2		
Taylor County.....	July 3-9.....	1		
Walton County.....	June 12-18.....	1		
Total for State.....		42	1	
<b>* Georgia:</b>				
Columbus.....	July 3-9.....	6		
Macon.....	Apr. 1-June 30.....	8		
Total for State.....		14		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Illinois:</b>				
Adams County.....	June 1-30.....	2		
Clay County.....	June 1-30.....	1		
Coles County.....	June 1-Aug. 31.....	30		
Cook County.....	June 1-30.....	1		
Chicago.....	June 1-Aug. 31.....	3		
Edgar County.....	June 1-30.....	2		
Franklin County.....	June 1-30.....	1		
Henry County.....	July 1-31.....	3		
Iroquois County.....	June 1-30.....	1		
Jo Daviess County.....	June 1-July 31.....	9		
Kendall County.....	June 1-July 31.....	2		
Knox County.....	June 1-July 31.....	6		
Madison County.....	June 1-Aug. 31.....	23		
Marion County.....	June 1-30.....	2		
Montgomery County.....	June 1-30.....	6		
Peoria County.....	June 1-Aug. 31.....	6		
Perry County.....	June 1-30.....	1		
Pulaski County.....	June 1-30.....	1		
Randolph County.....	June 1-30.....	1		
Richland County.....	June 1-Aug. 31.....	9		
Rock Island County.....	June 1-Aug. 31.....	8		
St. Clair County.....	June 1-30.....	1		
Sangamon County.....	June 1-30.....	1		
Tazewell County.....	June 1-30.....	2		
Union County.....	June 1-30.....	4		
Wayne County.....	June 1-30.....	3		
Williamson County.....	June 1-30.....	2		
Total for State.....		132		
<b>Indiana, general.....</b>				
Allen County.....	Aug. 1-31.....	6		
Carroll County.....	May 1-June 30.....	8		
Clay County.....	June 1-30.....	1		
Clinton County.....	June 1-30.....	2		
DeKalb County.....	May 1-31.....	1		
Delaware County.....	June 1-30.....	1		
Elkhart County.....	May 1-31.....	4		
Gibson County.....	May 1-31.....	1		
Grant County.....	May 1-31.....	1		
Greene County.....	May 1-June 30.....	13		
Howard County.....	May 1-31.....	9		
Lake County.....	May 1-June 30.....	21		
Madison County.....	June 1-30.....	1		
Marion County.....	June 1-30.....	6		
Marshall County.....	May 1-June 30.....	6		
Martin County.....	June 1-30.....	1		
Miami County.....	June 1-30.....	4		
Montgomery County.....	June 1-30.....	6		
Orange County.....	June 1-30.....	6		
Owen County.....	May 1-31.....	18		
Putnam County.....	May 1-June 30.....	23		
St. Joseph County.....	June 1-30.....	1		
Tipton County.....	May 1-June 30.....	10		
Vigo County.....	May 1-31.....	1		
Warren County.....	May 1-June 30.....	28		
Wayne County.....	June 1-30.....	1		
Wayne County.....	June 1-30.....	6		
Total for State.....		186		
<b>Iowa:</b>				
Benton County.....	June 1-July 31.....	4		
Buchanan County.....	June 1-30.....	2		
Cedar County.....	July 1-31.....	1		
Clayton County.....	June 1-30.....	1		
Dallas County.....	June 1-30.....	1		
Delaware County.....	June 1-30.....	10		
Dubuque County.....	June 1-30.....	1		
Lian County.....	June 1-Sept. 30.....	42		
Plymouth County.....	Aug. 1-31.....	1		
Polk County.....	June 1-Sept. 30.....	20		
Pottawattamie County.....	June 1-Aug. 31.....	21		
Scott County.....	June 1-July 31.....	4		
Warren County.....	Aug. 1-Sept. 30.....	14		
Webster County.....	July 1-31.....	1		
Winneshiek County.....	June 1-30.....	1		
Woodbury County.....	June 1-30.....	1		
Total for State.....		125		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Kansas:</b>				
Allen County.....	May 1-Aug. 31....	41		
Atchison County—				
Atchison.....	Apr. 1-May 31....	7		
Barton County.....	June 1-July 31....	7		
Butler County.....	Apr. 1-June 30....	8		
Cherokee County.....	June 1-30.....	4		
Clay County.....	July 1-31.....	1		
Coffey County.....	July 1-31.....	1		
Cowley County.....	Apr. 1-July 31....	12		
Crawford County.....	June 1-30.....	4	1	
Pittsburg.....	Aug. 1-31.....	1		
Decatur County.....	Apr. 1-Aug. 31....	38		
Dickinson County.....	May 1-June 30....	10		
Doniphan County.....	Apr. 1-30.....	10		
Edwards County.....	Apr. 1-Aug. 31....	7		
Elk County.....	May 1-July 31....	6		
Ellis County.....	July 1-31.....	3		
Ellsworth County.....	Apr. 1-30.....	1		
Finney County.....	Apr. 1-30.....	2		
Ford County.....	June 1-30.....	1		
Graham County.....	Apr. 1-May 31....	6		
Greenwood County.....	Apr. 1-June 30....	56		
Harper County.....	May 1-June 30....	3		
Harvey County.....	Apr. 1-June 30....	22		
Hodgeman County.....	July 1-31.....	1		
Jewell County.....	May 1-June 30....	21		
Kearny County.....	Apr. 1-May 31....	5		
Kingman County.....	Apr. 1-June 30....	4		
Labette County—				
Parsons.....	Apr. 1-July 31....	12		
Lane County.....	May 1-31.....	2		
Leavenworth County.....	Apr. 1-May 31....	8		
Leavenworth.....	May 1-June 30....	2		
Lyon County.....	June 1-Aug. 31....	13		
Marion County.....	July 1-31.....	1		
McPherson County.....	May 1-June 30....	14		
Miami County.....	Apr. 1-May 31....	2		
Marshall County.....	Aug. 1-31.....	1	1	
Montgomery County.....	Apr. 1-Aug. 31....	64	2	
Coffeyville.....	Apr. 1-June 30....	12		
Nehama County.....	July 1-31.....	2		
Neosho County.....	May 1-July 31....	38		
Norton County.....	Apr. 1-Aug. 31....	56		
Osage County.....	Apr. 1-May 31....	6		
Osborne County.....	Apr. 1-June 30....	33		
Pawnee County.....	Apr. 1-30.....	3		
Phillips County.....	May 1-31.....	6		
Pratt County.....	June 1-July 31....	2		
Rawlins County.....	June 1-30.....	1		
Reno County.....	Apr. 1-June 30....	23	3	
Riley County.....	Apr. 1-May 31....	5		
Rush County.....	Apr. 1-30.....	3		
Saline County.....	Apr. 1-Aug. 31....	22		
Scott County.....	Apr. 1-May 31....	5		
Sedgwick County.....	Apr. 1-May 31....	7		
Wichita.....	Apr. 1-July 31....	52		
Seward County.....	May 1-31.....	2		
Shawnee County.....	June 1-30.....	1		
Topeka.....	July 1-31.....	7		
Sheridan County.....	Apr. 1-30.....	1		
Sherman County.....	May 1-31.....	1		
Stafford County.....	June 1-July 31....	4		
Sumner County.....	May 1-31.....	4		
Thomas County.....	Apr. 1-May 31....	2	1	
Trego County.....	June 1-30.....	1		
Wallace County.....	June 1-30.....	1		
Wyandotte County.....	Apr. 1-30.....	4		
Kansas City.....	Apr. 1-Aug. 31....	59		
Total for State.....		764	8	
<b>*Kentucky:</b>				
Covington.....	June 26-July 2....	1		
Total for State.....		1		
<b>Louisiana:</b>				
Avoyelles Parish.....	June 1-30.....	12		The last report received from the Louisiana state board of health was for the month of June.
Calcasieu Parish.....	June 1-30.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Louisiana—Continued.</b>				
Iberia Parish.....	June 1-30.....	19		
Orleans Parish.....	June 1-30.....			
New Orleans.....	June 12-Oct. 22.....	89		
St. John Parish.....	June 1-30.....	10		
St. Tammany Parish.....	June 1-30.....	2		
Tangipahoa Parish.....	June 1-30.....	25		
Vermilion Parish.....	June 1-30.....	30		
<b>Total for State.....</b>		<b>209</b>		
<b>*Maine:</b>				
Biddeford.....	May 1-31.....	1		
<b>Total for State.....</b>		<b>1</b>		
<b>Maryland:</b>				
Allegany County—				
Cumberland.....	May 1-July 31.....	2		
<b>Total for State.....</b>		<b>2</b>		
<b>Massachusetts:</b>				
Middlesex County.....	July 1-31.....	1		
Suffolk County.....	June 1-July 31.....	8		
<b>Total for State.....</b>		<b>9</b>		
<b>Michigan:</b>				
St. Clair County.....	May 1-31.....	43		Reported out of date.
Alcona County.....	June 1-30.....	1		
Arenac County.....	June 1-30.....	2		
Baraga County.....	Aug. 1-31.....	5		
Bay County.....	June 1-Sept. 30.....	10	2	
Benzie County.....	Sept. 1-30.....	1		
Berrien County.....	July 1-Aug. 31.....	2		
Cheboygan County.....	June 1-Sept. 30.....	34		
Clare County.....	June 1-July 31.....	12		
Emmet County.....	Aug. 1-Sept. 30.....	7		
Eaton County.....	June 1-30.....	7		
Genesee County.....	June 1-Sept. 30.....	52		
Grand Traverse County.....	July 1-Aug. 31.....	6		
Gratiot County.....	June 1-Sept. 30.....	12		
Houghton County.....	June 1-30.....	3		
Huron County.....	June 1-July 31.....	12		
Ingham County.....	June 1-Aug. 31.....	10		
Ionia County.....	June 1-Aug. 31.....	7		
Isabella County.....	June 1-July 31.....	4		
Kalamazoo County.....	June 1-July 31.....	8		
Kent County.....	June 1-30.....	17		
Keweenaw County.....	July 1-31.....	1		
Lapeer County.....	June 1-July 31.....	16		
Livingston County.....	June 1-30.....	17		
Manistee County.....	June 1-Sept. 30.....	13	1	
Marquette County.....	June 1-30.....	1		
Mason County.....	June 1-Aug. 31.....	11		
Mecosta County.....	June 1-Aug. 31.....	7		
Midland County.....	June 1-July 31.....	11		
Missaukee County.....	June 1-Sept. 30.....	15		
Monroe County.....	June 1-30.....	2		
Montcalm County.....	July 1-31.....	1		
Muskegon County.....	June 1-30.....	2		
Newaygo County.....	June 1-30.....	2		
Osceola County.....	June 1-Sept. 30.....	7		
Ottawa County.....	June 1-30.....	1		
Roscommon County.....	June 1-30.....	4		
Saginaw County.....	June 1-Aug. 31.....	40		
St. Clair County.....	June 1-Aug. 31.....	55		
Sanilac County.....	June 1-July 31.....	3		
Shiawassee County.....	June 1-Aug. 31.....	54		
Tuscola County.....	June 1-Aug. 31.....	23		
Wayne County.....	June 1-Aug. 31.....	19		
<b>Total for State.....</b>		<b>560</b>	<b>3</b>	
<b>Minnesota:</b>				
Pope County.....	Apr. 1-30.....		1	} Received out of date.
Rice County.....	Mar. 1-31.....		1	
Beltrami County.....	May 26-June 5.....	4		
Blue Earth County.....	June 6-12.....	1		
Brown County.....	Aug. 1-7.....	1		
Carver County.....	June 13-July 10.....	2		
Faribault County.....	May 26-Aug. 14.....	3		
Hennepin County.....	May 26-Sept. 4.....	64		

## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Minnesota—Continued.</b>				
Kittson County.....	June 6-19.....	2		
Koochiching County.....	May 26-June 5.....	6		
Lesueur County.....	June 13-19.....	32		
Meeker County.....	June 6-12.....	1		
Mower County.....	July 11-Aug. 7.....	5		
Nicolet County.....	Aug. 12-18.....	1		
Ramsey County.....	June 13-Sept. 18.....	31		
Renville County.....	June 6-12.....	1		
Rice County.....	May 26-July 10.....	2		
St. Louis County.....	May 26-Aug. 28.....	13	1	
Stearns County.....	June 20-26.....	1		
Steele County.....	June 6-19.....	2		
Wabasha County.....	June 13-26.....	2		
Washington County.....	Sept. 11.....	1		
Watsonwan County.....	Sept. 5-11.....	1		
Wright County.....	July 4-31.....	2		
Total for State.....		178	3	
<b>* Mississippi:</b>				
Marshall County.....	Sept. 25-Oct. 1.....	1		
Natchez.....	July 24-30.....	5		
Yazoo City.....	Sept. 25-Oct. 1.....	1		
Total for State.....		7		
<b>* Missouri:</b>				
Andrew County.....	June 26-Oct. 8.....	11		
Kansas City.....	May 15-Aug. 20.....	36		
St. Louis.....	June 12-July 16.....	9		
Total for State.....		56		
<b>Montana:</b>				
Beaverhead County.....	June 1-Sept. 30.....	2		
Cascade County.....	June 1-30.....	1		
Custer County.....	Apr. 1-30.....		1	
Dawson County.....	June 1-Aug. 31.....	14		
Fergus County.....	June 1-July 31.....	8		
Flathead County.....	June 1-30.....	1		
Meagher County.....	June 1-30.....	1		
Park County.....	June 1-Aug. 31.....	2		
Rosebud County.....	June 1-Aug. 31.....	4		
Silver Bow County.....	June 1-Sept. 30.....	17		
Butte.....	June 1-Sept. 30.....	51		
Teton County.....	July 1-31.....	2		
Yellowstone County.....	June 1-30.....	2		
Total for State.....		105	1	
<b>* Nebraska:</b>				
Lincoln.....	Apr. 1-July 31.....	31		
South Omaha.....	June 1-30.....	3		
Total for State.....		34		
<b>New Jersey:</b>				
Cumberland County.....	June 1-Aug. 31.....	7		
Total for State.....		7		
<b>New York, general.</b>				
June 1-Aug. 31.....		62	3	
<b>Errie County—</b>				
Buffalo.....	May 1-31.....	1		
Tonawanda Township.....	May 1-31.....	2		
<b>Niagara County—</b>				
Niagara Falls.....	May 1-31.....	1		
North Tonawanda.....	May 1-31.....	1		
St. Lawrence County.....	May 1-31.....	19		
Schenectady County.....	May 1-31.....	2		
Total for State.....		88	3	
<b>North Carolina:</b>				
Forsyth County.....	Feb. 1-28.....		1	} Received out of date.
Rowan County.....	Feb. 1-28.....		1	
Alamance County.....	Mar. 1-July 31.....	42		
Alexander County.....	Mar. 1-June 30.....	75		
Anson County.....	Apr. 1-July 31.....	11		
Ashe County.....	Mar. 1-31.....	12		
Beaufort County.....	Mar. 1-Sept. 30.....	7		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>North Carolina—Continued.</b>				
Bladen County.....	Apr. 1-July 31.....	29		
Brunswick County.....	July 1-31.....	2		
Buncombe County.....	June 1-July 31.....	2		
Cabarrus County.....	Mar. 1-July 31.....	16		
Caldwell County.....	Mar. 1-Sept. 30.....	14	1	
Catawba County.....	Mar. 1-June 30.....	42		
Chatham County.....	Mar. 1-July 31.....	19		
Chowan County.....	Mar. 1-31.....	3		
Cleveland County.....	June 1-30.....			Few cases.
Columbus County.....	Apr. 1-Aug. 31.....	25		
Craven County.....	Mar. 1-31.....	1		
Cumberland County.....	Sept. 1-30.....	3		
Currituck County.....	Mar. 1-June 30.....	23		
Davidson County.....	Mar. 1-July 31.....	15		
Davie County.....	Mar. 1-31.....	8		
Durham County.....	Mar. 1-Sept. 30.....	34		
Edgecombe County.....	June 1-30.....	1		
Forsyth County.....	Mar. 1-Aug. 31.....	29		
Franklin County.....	Mar. 1-Sept. 30.....	17		
Gaston County.....	Mar. 1-July 31.....	14	2	
Graham County.....	Mar. 1-Apr. 30.....	8		
Greene County.....	Mar. 1-June 30.....	20		
Gulford County.....	Mar. 1-Aug. 31.....	69		
Hallfax County.....	Mar. 1-31.....	40		
Haywood County.....	July 1-Aug. 31.....	10		
Henderson County.....	May 1-June 30.....	6		
Hertford County.....	Mar. 1-31.....	1		
Iredell County.....	June 1-July 31.....	26		
Johnson County.....	Apr. 1-May 31.....	4		Several cases in May.
Jones County.....	Mar. 1-31.....	1		Several cases in March.
Lee County.....	Mar. 1-June 30.....	6		
Lenoir County.....	Mar. 1-June 30.....	19		
Lincoln County.....	Mar. 1-July 31.....	4		
Madison County.....	Apr. 1-30.....	5		
Martin County.....	Apr. 1-Sept. 30.....	7		
Mecklenburg County.....	Mar. 1-Aug. 31.....	36		
Mitchell County.....	Aug. 1-Sept. 30.....			Present.
Montgomery County.....	Mar. 1-Aug. 31.....	54		
Nash County.....	Mar. 1-Aug. 31.....	56		
New Hanover County.....	Mar. 1-Aug. 31.....	48		
Onslow County.....	Mar. 1-May 31.....	5		
Orange County.....	Mar. 1-July 31.....	51		
Pamlico County.....	Mar. 1-Aug. 31.....	6		
Pender County.....	Aug. 1-Sept. 30.....	8		
Perquimans County.....	May 1-31.....	1		
Person County.....	May 1-July 31.....	7		
Pitt County.....	Mar. 1-Sept. 30.....	36		
Polk County.....	Mar. 1-31.....	7		
Richmond County.....	Apr. 1-30.....	2		
Robeson County.....	Apr. 1-Sept. 30.....	45		
Rockingham County.....	Mar. 1-31.....	48		
Rowan County.....	Mar. 1-July 31.....	45	1	
Sampson County.....	May 1-Sept. 30.....	4		
Scotland County.....	May 1-Sept. 30.....	6		
Stanly County.....	Apr. 1-July 31.....	35		
Stokes County.....	Mar. 1-31.....	64		
Surry County.....	Mar. 1-31.....	4		
Union County.....	Mar. 1-Sept. 30.....	40		
Vance County.....	Apr. 1-30.....	4		
Wake County.....	Apr. 1-May 31.....	22		
Warren County.....	Apr. 1-Aug. 31.....	28		
Washington County.....	Mar. 1-Apr. 30.....	4		
Watauga County.....	Apr. 1-Aug. 31.....	36		
Wayne County.....	Apr. 1-May 31.....	6		
Wilkes County.....	Mar. 1-July 31.....	39		
Wilson County.....	Mar. 1-June 30.....	25	1	Few cases in June.
Yancey County.....	Mar. 1-31.....	26		
Total for State.....		1,468	7	
<b>North Dakota:</b>				
Bowman County.....	Aug. 1-31.....	37		
Cass County.....	June 1-Sept. 30.....	4		
Cavalier County.....	June 1-30.....	1		
Grand Forks County.....	June 1-10.....	4		
Logan County.....	June 1-30.....	1		
McKenzie County.....	June 1-30.....	1		
Morton County.....	July 1-31.....	4		
Pierce County.....	June 1-30.....	1		
Stark County.....	July 1-31.....	1		
Steele County.....	Sept. 1-30.....	1		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>North Dakota—Continued.</b>				
Stutsman County.....	Aug. 1-31.....	1		
Trails County.....	June 1-30.....	6		
Ward County.....	June 1-30.....	4		
<b>Total for State.....</b>		<b>66</b>		
<b>Oklahoma, general.</b>				
Canadian County.....	Jan. 1-31.....		1	
Comanche County.....	Apr. 1-30.....		1	
Comanche County.....	Apr. 1-30.....		3	
Grady County.....	Apr. 1-30.....		1	Reported out of date.
Oklahoma County.....	Apr. 1-30.....		4	
Pottawatomie County.....	Apr. 1-30.....		2	
Atoka County.....	May 1-31.....	20		
Beckham County.....	May 1-31.....	2		
Blaine County.....	May 1-31.....	8		
Bryan County.....	Aug. 1-31.....	25		
Caddo County.....	May 1-Aug. 31.....	6		
Canadian County.....	May 1-Aug. 31.....	18	1	
Choctaw County.....	May 1-31.....	1		
Coal County.....	May 1-31.....	5		
Comanche County.....	May 1-31.....	4	1	
Custer County.....	May 1-31.....	9		
Garvin County.....	May 1-31.....	1		
Grady County.....	May 1-Aug. 31.....	13	7	
Haskell County.....	May 1-31.....	7		
Hughes County.....	May 1-31.....	42		
Jefferson County.....	May 1-31.....	3		
Kiowa County.....	May 1-31.....	1		
Lincoln County.....	May 1-31.....	4		
McLain County.....	May 1-31.....	9		
McIntosh County.....	May 1-31.....	11		
Murray County.....	May 1-31.....	1		
Muskogee County.....	May 1-31.....	5		
Noble County.....	May 1-31.....	8		
Nowata County.....	May 1-Aug. 31.....	9		
Okfuskee County.....	May 1-31.....	1		
Oklahoma County.....	May 1-Aug. 31.....	3	1	
Oklmulgee County.....	May 1-31.....	2		
Pawnee County.....	May 1-31.....	4		
Payne County.....	May 1-31.....	10		
Pittsburg County.....	May 1-Aug. 31.....	6	2	
Pontotoc County.....	May 1-31.....	12		
Seminole County.....	May 1-Aug. 31.....	3		
Sequoyah County.....	Aug. 1-31.....	1		
Texas County.....	May 1-31.....	4		
Tillman County.....	May 1-Aug. 31.....	3		
Tulsa County.....	May 1-Aug. 31.....	3	1	
Washita County.....	May 1-31.....	1		
<b>Total for State.....</b>		<b>265</b>	<b>25</b>	
<b>Ohio:</b>				
Allen County.....	June 1-30.....	3		
Athens County.....	July 1-31.....	1		
Butler County.....	June 1-July 31.....	4		
Clarke County.....	July 1-31.....	3		
Clinton County.....	June 1-30.....	10		
Columbiana County.....	June 1-July 31.....	6		
Cuyahoga County.....	June 1-July 31.....	16		
Fairfield County.....	June 1-30.....	1		
Franklin County.....	June 1-Sept. 30.....	12		
Hamilton County.....	June 1-Sept. 30.....	2		
Hancock County.....	July 1-31.....	4		
Hocking County.....	June 1-July 31.....	26		
Jackson County.....	Sept. 1-30.....	3		
Jefferson County.....	July 1-31.....	1		
Lucas County.....	June 1-Sept. 30.....	8		
Mahoning County.....	July 1-31.....	1		
Marion County.....	July 1-31.....	1		
Perry County.....	June 1-30.....	1		
Pickaway County.....	June 1-30.....	1		
Portage County.....	June 1-30.....	7		
Ross County.....	June 1-Sept. 30.....	74		
Seneca County.....	July 1-31.....	1		
Scioto County.....	June 1-30.....	2		
Stark County.....	June 1-July 31.....	29		
Summit County.....	July 1-31.....	5		
Wayne County.....	June 1-30.....	2		
Wood County.....	June 1-30.....	2		
<b>Total for State.....</b>		<b>226</b>	<b>1</b>	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Oregon:</b>				
Baker County.....	May 1-31.....	1		
Benton County.....	May 1-31.....	2		
Burns County.....	June 1-30.....	2		
Linn County.....	June 1-30.....	10		
Multnomah County.....	Apr. 1-May 31.....	1		
Umatilla County.....	May 1-31.....	2		
Union County.....	May 1-31.....	2		
Wasco County.....	Apr. 1-30.....	2		
Washington County.....	Apr. 1-June 30.....	3		
Yamhill County.....	Apr. 1-June 30.....	15		
<b>Total for State.....</b>		<b>38</b>		
<b>Pennsylvania, general.....</b>				
	Apr. 1-30.....		2	
	May 1-Aug. 31.....	56	4	
<b>Total for State.....</b>		<b>56</b>	<b>6</b>	
<b>*South Carolina:</b>				
Charleston.....	June 1-July 31.....	28		
<b>Total for State.....</b>		<b>28</b>		
<b>*Tennessee:</b>				
<b>Benton County—</b>				
Camden.....	July 1-7.....	2		
<b>Davidson County—</b>				
Nashville.....	June 12-July 9.....	2		
<b>Hamilton County—</b>				
Chattanooga.....	June 12-Oct. 8.....	5		
<b>Knox County—</b>				
Knoxville.....	June 12-July 16.....	8		
Shelby County.....	May 1-Sept. 30.....	45		
Memphis.....	June 12-Oct. 15.....	9		
<b>Total for State.....</b>		<b>71</b>		
<b>Texas, general.....</b>				
	Apr. 1-July 31.....	881	27	
<b>Total for State.....</b>		<b>881</b>	<b>27</b>	
<b>Utah, general.....</b>				
	Mar. 1-31.....	112		Report received out of date.
Boxelder County.....	May 1-31.....	1		
Cache County.....	May 1-31.....	6		
Davis County.....	May 1-July 31.....	43		
Juab County.....	June 1-July 31.....	3		
Salt Lake County.....	May 1-Sept. 30.....	36	1	
Utah County.....	May 1-Sept. 30.....	49		
Wasatch County.....	Aug. 1-31.....	1		
Weber County.....	May 1-Sept. 30.....	26		
<b>Total for State.....</b>		<b>277</b>	<b>1</b>	
<b>*Virginia:</b>				
Alexandria.....	Aug. 25.....			One case from the schooner Persis A. Colwell, from Gaspe, Quebec.
Lynchburg.....	June 12-18.....	1		
<b>Total for State.....</b>		<b>1</b>		
<b>Washington, general.....</b>				
Adams County.....	Feb. 1-Mar. 31.....		4	Reports for April and May not yet received.
	June 1-30.....	1		
Chehalis County.....	June 1-30.....	3		
Chelan County.....	June 1-30.....	1		
<b>Pierce County—</b>				
Tacoma.....	June 1-July 31.....	2		
<b>Skagit County—</b>				
Everett.....	July 1-31.....	2		
	June 1-30.....	5		
<b>Spokane County—</b>				
Spokane.....	July 1-31.....	2		
	June 1-Aug. 3.....	21		
Thurston County.....	Aug. 1-31.....	1		
Whitman County.....	June 1-July 31.....	13		
Yakima County.....	July 1-Aug. 31.....	4	1	
<b>Total for State.....</b>		<b>55</b>	<b>5</b>	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Wisconsin:</b>				
Ashland County.....	June 1-Aug. 31.....	17	.....	
Barron County.....	June 1-30.....	1	.....	
Brown County.....	July 1-31.....	5	.....	
Douglas County.....	June 1-July 31.....	3	.....	
Dunn County.....	July 1-31.....	1	.....	
Eau Claire County.....	June 1-July 31.....	4	.....	
Florence County.....	June 1-30.....	4	.....	
Fond du Lac County.....	July 1-31.....	1	.....	
Grant County.....	Sept. 1-30.....	1	.....	
Greene County.....	Sept. 1-30.....	2	.....	
Iowa County.....	Sept. 1-30.....	3	.....	
Kenosha County.....	July 1-31.....	1	.....	
Lafayette County.....	June 1-30.....	1	.....	
La Crosse County.....	June 1-30.....	2	.....	
Milwaukee County.....	July 1-Sept. 30.....	15	.....	
Pierce County.....	July 1-31.....	1	.....	
Polk County.....	July 1-Aug. 31.....	6	.....	
Rush County.....	June 1-30.....	1	.....	
St. Croix County.....	July 1-31.....	5	.....	
Sawyer County.....	June 1-Sept. 30.....	11	.....	
Waupaca County.....	June 1-Sept. 30.....	5	.....	
Winnebago County.....	July 1-31.....	1	.....	
Total for State.....		91	.....	
Grand total for the United States.....		6,320	97	

## CHOLERA IN THE UNITED STATES.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>New York:</b> New York.....	Sept. 26-29.....	1	1	Case in immigrant removed at quarantine from s. s. Germania, from Marseille and Naples.

## PLAGUE IN THE UNITED STATES.

Reports Received from June 25 to November 4, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>California:</b>				
San Benito County— Hollister.....	June 5-11.....	1	1	
Santa Clara County— San Jose.....	Sept. 5.....	1	.....	

MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES, FOR WEEK ENDED OCTOBER 29.

[For smallpox and plague see special tables.]

Cities.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.	21			1	1				8	1			
Ann Arbor, Mich.	10	2	1	2									
Auburn, N. Y.	5	3	1		1	2				2			
Aurora, Ill.	2												
Baltimore, Md.	203	38	24	95	11	17	5	27	1	5		5	1
Bayonne, N. J.	1							8	1				
Bennington, Vt.	2			1				4					
Biddeford, Me.	3					2	1	3					
Binghamton, N. Y.	20	2	2	1		1				1			
Braddock, Pa.	10		1	9	2	2		6					
Bridgeport, Conn.	20	4	2	1				3		2		1	
Brockton, Mass.	20	4	1	4		1		2	1				
Cambridge, Mass.	21	6	3	3		4	2	6		1			
Cambridge, Ohio	1	1		4									
Camden, N. J.	3	1				8			3	1			
Camden, S. C.	0							2					
Canton, Ohio.	15		1		1			2					
Carbondale, Pa.	4												
Charlotte, N. C.	13		1	3		1							
Chattanooga, Tenn.								2					
Chelsea, Mass.	13	1	1					1		2			
Chicago, Ill.	565	186	67	96	7	107	7	174	26	12		3	
Chicopee, Mass.	5				1			1				9	
Cincinnati, Ohio.	113	35	17	4	1	27	1	15	1	2			
Cleveland, Ohio.	137	25	10	13	4	23		28	2	3	1	3	
Clinton, Mass.	2												
Coffeyville, Kans.	2	1		6		1							
Columbus, Ga.	5		2										1
Columbus, Ind.	3												
Columbus, Ohio.	38	15	6	4	1	1		6				3	
Concord, N. H.	4			2				1					
Covington, Ky.	13		3	2		4		6					
Cumberland, Md.	3			42				1				1	
Danville, Ill.	12	1		1				1					
Dayton, Ohio.	32		1	1	2	1		4		1			
Detroit, Mich.	146				4	16	1	25	4	2			
Dubuque, Iowa.						1		4	1				
Duluth, Minn.	20	1		7	4	1		3		8		4	
Dunkirk, N. Y.	6					2	2	2	1	4			
Elizabeth, N. J.	16		1					2	1				
Elmira, N. Y.	11		1	1		4		1	1				
El Paso, Tex.	19	1	1	2									
Erie, Pa.	16	6	3	7		3		2					
Evansville, Ind.	14	4	2	6				1		1			
Everett, Mass.	7					1						1	
Fall River, Mass.	28	1	1	10	1			4		2		2	1
Freeport, Ill.	4												
Galesburg, Ill.	5					2							
Gloucester, Mass.	10												
Grand Rapids, Mich.	38	3		5	1	2		6		19			
Greensboro, N. C.	6		1					2					
Harrison, N. J.	4					2		1					
Hartford, Conn.	26	3	3	1		2	1	6				3	
Haverhill, Mass.	10	1	1	3				1		1			
Hoboken, N. J.						1		4	1			1	
Hyde Park, Mass.	3			12				5		2			
Jacksonville, Fla.	16	1	1		3								
Johnstown, Pa.	22		1		2			2					
Kalamazoo, Mich.	16	1		7	1	3				21		2	
Kearney, N. J.	7							2		1			
Kingston, N. Y.	8		1										
Knoxville, Tenn.	13		1		1			5		7			
La Crosse, Wis.	13				1	3							
La Fayette, Ind.	6			1									
Lancaster, Pa.	12			1				6				3	
Lawrence, Mass.	23		1	1		4		3	1				
Lebanon, Pa.	5			3		2				1			
Lexington, Ky.	10		3	12				2					
Los Angeles, Cal.	86	9	9	11	2	7		5					
Lowell, Mass.	37	2	1	6	1	3		2	1				
Lynchburg, Va.				2		2		10				1	
Lynn, Mass.	19	2	2	1		2		4					
Madison, Ind.	1												
Malden, Mass.	9	2	1	4		1		1					

Weekly morbidity and mortality table, cities of the United States, for week ended  
October 22—Continued.

Cities.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Manchester, N. H.	28	2	2	1	1	3	4	1				1	1
Manistee, Mich.													
Manitowoc, Wis.	4	2	1			3							
Marquette, Wis.	3						1	1					
Massillon, Ohio.	1												
Medford, Mass.	5					1							
Melrose, Mass.	2												
Milwaukee, Wis.	72	16	5	15	5	36	34	2	4	2	6		
Mobile, Ala.	18		3			2							
Moline, Ill.	7	1	1	11			13	1					
Montclair, N. J.	5			1		13	1	1					
Montgomery, Ala.	27	1	1	3	1	2	2	1	2				
Morristown, N. J.	7		2	1		1	12	1	2				
Mount Vernon, N. Y.	10	1	1				3						
Muskegon, Mich.				1									
Nanticoke, Pa.	4						8	1					
Nashville, Tenn.	36		2	13		4			6				
Newark, N. J.	97	17	13	7	2	19	23	1					2
New Bedford, Mass.	31	4		2	2	3							
Newburyport, Mass.	6		1										
New Orleans, La.	130	26	23	8	2	59	1	20	1	5			
Newport, Ky.	12	3	3				2						
Newton, Mass.	5			1		2							
New York, N. Y.	1,269	515	163	108	20	88	3	250	18	74	2	22	2
Niagara Falls, N. Y.	9	1	2	4	1	1	9	2					1
Norristown, Pa.	6		1	4			2						
North Adams, Mass.	5					2		1	4				
Northampton, Mass.	8	1		1			1	1					
Orange, N. J.	8	1					2						1
Ottumwa, Iowa	6												
Paducah, Ky.	6												
Palmer, Mass.													
Peekskill, N. Y.	2					2		1					
Philadelphia, Pa.		84	64	31	7	26	86	7	31		45	6	
Pittsburg, Pa.	160	45	10	17	3	28	3	34	4	6	20	1	
Pittsfield, Mass.	1			1		3			9				
Plainfield, N. J.	3												
Portsmouth, Va.	10					1		1					
Pottstown, Pa.	7					1							
Providence, R. I.	65	10	5	3	1	7	13	2	2		1		
Racine, Wis.	7		1	1	1								
Reading, Pa.	24	1		11	1		3	1			3		
Rock Island, Ill.	5			3		1	8						
Rutland, Vt.				1	1						1		
Sacramento, Cal.	12		2	1	1		1						
Saratoga Springs, N. Y.	3		1										
St. Louis, Mo.	183	42	14	19	3	26	1	44	1	22	14		
Saginaw, Mich.	22		1			2		2					
Salt Lake City, Utah	25		2	20	2	1	10						
San Antonio, Tex.	9		7	1	1	1	2	1					
San Francisco, Cal.	126	38	17	1	1	9	2		11		4		
Schenectady, N. Y.	22	3	1	1	1		3	1			4	1	
Seattle, Wash.	46	4	3	14		3	1	3	15		4		
Somerville, Mass.	21		3			2	3	2					
South Bend, Ind.	13	1	2	2		2	1						
Spokane, Wash.	21		1	10		9	2				1		
Springfield, Mass.	20	3		2		1	4		1		9		
Steelton, Pa.	1	2					7	1					
Superior, Wis.	9						8	1					
Tacoma, Wash.	16			1	1	2	1	1					
Taunton, Mass.	10		1			3							
Terre Haute, Ind.	14		1			4		10					
Toledo, Ohio.	48		5	14	2	13	16		1	1			
Trenton, N. J.	3	6	2	5	1	9	1						
Waltham, Mass.	9		1	2		1	2						
Warren, Ohio.	1			1									
Washington, D. C.	97	37	12	22	1	7	11		2		5		
Wichita, Kans.	17			4	1		12	1					
Wilkes-Barre, Pa.	23	1		1	1		13	1					
Willkingsburg, Pa.	4	1	1	1		1							
Williamsport, Pa.	9		4	1	2								
Wilmington, Del.	26		1		2			1					
Woburn, Mass.	7					1	1	7					
Worcester, Mass.	41	8	2	4	1	2	17	2	2		3	2	
Yonkers, N. Y.	25	10	2	2	1	1	1						1
York, Pa.		1		2			5				3		
Zanesville, Ohio.	6			3		1							

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

CONNECTICUT—*New London*.—Month of October, 1910. Population, 19,659. Total number of deaths from all causes 27, including typhoid fever 1, tuberculosis 2. Cases reported: Typhoid fever 4, scarlet fever 1, diphtheria 1, tuberculosis 4.

FLORIDA.—Reports from the State board of health show as follows: Week ended October 22, 1910, typhoid fever present in 3 localities with 7 cases, smallpox in 1 county (Gadsden) with 1 case, scarlet fever in 1 locality with 1 case, diphtheria in 5 localities with 7 cases, malaria in 7 localities with 16 cases, tuberculosis in 4 localities with 5 cases.

Week ended October 29, 1910: Typhoid fever present in 2 localities (Tampa and Jacksonville) with 3 cases, smallpox in 3 counties (Hillsboro, Leon, and Osceola) with 28 cases, scarlet fever in 1 locality (Pensacola) with 1 case, diphtheria in 4 localities with 4 cases, malaria in 4 localities with 21 cases, tuberculosis in 2 localities (Tampa and Jacksonville) with 5 cases.

IOWA—*Davenport*.—Month of October, 1910. Population, 42,000. Total number of deaths from all causes not reported. One death from diphtheria reported. Cases reported: Scarlet fever 4, diphtheria 13, tuberculosis 10.

NEW YORK—*Rochester*.—Month of September, 1910. Population, 190,000. Total number of deaths from all causes 266, including measles 1, tuberculosis, pulmonary, 21. Cases reported: Typhoid fever 46, measles 8, scarlet fever 10, diphtheria 5.

UTAH.—Month of September, 1910. Population, 346,873. Total number of deaths from all causes 292, including typhoid fever 29, scarlet fever 5, diphtheria 4, tuberculosis 5. Cases reported: Typhoid fever 364, smallpox 42, measles 8, scarlet fever 105, diphtheria 33, tuberculosis 9.

VIRGINIA—*Petersburg*.—Month of October, 1910. Population, 30,000. Total number of deaths from all causes 65, including typhoid fever 2, diphtheria 2, tuberculosis 9. Cases reported: Typhoid fever 8, scarlet fever 1, diphtheria 34, tuberculosis 5.

# FOREIGN AND INSULAR.

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## MEASURES TO PREVENT THE INTRODUCTION OF CHOLERA INTO THE UNITED STATES.

### HAVRE.

Surgeon Carter states that the sanitary management of the emigrants embarking at Havre, France, to the United States is very satisfactory. The consular officer at Havre, who gives his personal attention to the inspection of emigrants, is a graduate in medicine and takes much interest in the work, with which his long service at Havre makes him very familiar. Both the health authorities of Havre and the steamship officials cooperate cordially with the consul.

No Russians or south Italians emigrate from Havre, and none, or very few, from the lower Danube. The emigrants embarking at Havre are mostly north Italians, Austrians, and a few Swiss and French, with a considerable number of Levantines.

Inasmuch as no emigrants come from cholera-infected districts to embark at Havre, there is no routine detention practiced at that port, although some passengers from infected districts, via Marseille, are detained at Havre for five days prior to embarkation, and during this time their effects are disinfected. While in Havre awaiting passage the emigrants are under the control or supervision of the sanitary authorities of the port.

There is almost completed a new emigrant detention building, in which the emigrants will lodge while awaiting passage from Havre.

The disinfection provided for passengers detained is done by means of steam. When the luggage is packed in bundles of considerable size the disinfection, to be efficient, necessitates long exposure to the steam. The disinfection is entirely efficient, however, for the work which is required of it.

### CHERBOURG.

From this port the American Line takes nearly all of the steerage passengers. The White Star Line also takes a certain number. Cherbourg is a port of call for the North German and the Hamburg-American lines. The cabin passenger traffic at Cherbourg is proportionately much larger than the steerage. No south Italian steerage passengers and very few Russians pass through Cherbourg for the United States. It is estimated that between 65 and 70 Russians per month leave Cherbourg for the United States.

All of the incoming emigrants are inspected by two municipal physicians while in Cherbourg awaiting passage. They are under the sanitary and police control of the municipality. At the time that they

go aboard the vessel they are again inspected by the municipal physicians assisted by the physicians of the steamship company.

There has been no routine inspection of baggage or disinfection of effects or detention of steerage passengers from districts pronounced infected by cholera, although it is stated that a lot of 28 Syrians arriving from Marseille during the middle of October were detained for 5 days in Cherbourg, and their baggage was disinfected during such detention.

It is stated that the Russians passing through Cherbourg come from Germany and have been more than 5 days crossing the German frontier from Russia.

#### AUSTRIA-HUNGARY.

##### Cholera-Infected Localities.

Consul Slocum at Fiume reports:

On October 17, 3 localities in 2 counties were officially declared to be cholera-infected, and 9 localities in 6 counties, previously declared infected, were declared noninfected. On October 20, 2 localities remained infected and 16 were declared free from infection.

#### CHINA.

##### HONGKONG—Malaria.

Consul-General Carleton reported August 30:

During the last ten years there has been a steady and substantial reduction in the number of cases of malaria as annually recorded by the medical department. Malaria has been long known to be very prevalent in Hongkong. The troops appear to be more affected with the disease than civilians, but they have shared in the general improvement of conditions. The total number of malarial cases admitted to the military hospital in 1909 was 268, giving a ratio of 59 per 1,000 as against 515 in 1908 or 115 per 1,000. The principal medical officer of the garrison states that the hospital admission rate for malarial diseases among the troops serving in the colony of Hongkong was in 1909 greater than in India or any other colony in which British soldiers have to serve with the exception of the west coast of Africa. For ten or twelve years past the colonial government has endeavored to free the hills of mosquito-breeding places by making waterways or ditches and the public has been urged to fill up stagnant pools in the vicinity of dwellings or to oil the standing water. A pamphlet giving simple instruction in antimalarial measures is being distributed among the people.

#### GERMANY.

##### Cholera.

Ambassador Hill, at Berlin, reported October 20 to the Department of State:

During the week ended October 9, 6 new cases of cholera were reported at Marienburg, West Prussia. The persons affected had been under observation, as they had come in contact with cholera patients. Of the 6 cases 1 ended fatally. Four of the patients were children under 10 years old. Two other children have since been found to have acquired cholera germs. Precautionary measures against the spread of the disease are being observed.

## GREAT BRITAIN.

LIVERPOOL—Yellow fever on steamship.<sup>a</sup>

Consul Washington reports, October 14:

A patient nearing the convalescent stage of yellow fever was removed October 13 from the steamship *Augustine* from Manaos, Brazil. Passengers and crew of the vessel will be kept under observation. The owners of the *Augustine* state that 5 cases of yellow fever occurred on the vessel between September 24 and 29 after leaving Manaos en route to Portugal. Two of these cases were landed at Para; 2 ended fatally and the bodies were buried at sea prior to the arrival of the vessel at Lisbon. The fifth case is the one removed at Liverpool.

## HAWAII.

Last case of human plague at Honolulu occurred July 12, 1910.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 12, 1910.

At Hilo the last case of human plague occurred March 23, 1910.

The last plague-infected rat was found at Piihuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, October 18.

## HONOLULU—Week ended October 15, 1910.

Total rats and mongoose taken.....	816
Rats trapped.....	710
Mongoose trapped.....	9
Rats found dead ( <i>Mus rattus</i> ).....	1
Rats shot from trees.....	96
Examined bacteriologically.....	700
Plague rats.....	0
Under examination for plague infection ( <i>Mus alexandrinus</i> ).....	1
Classification of rats trapped:	
<i>Mus alexandrinus</i> .....	147
<i>Mus musculus</i> .....	212
<i>Mus norvegicus</i> .....	56
<i>Mus rattus</i> .....	295
Classification of rats shot from trees:	
<i>Mus alexandrinus</i> .....	18
<i>Mus rattus</i> .....	66
Average number of traps set daily.....	1,720

CASE OF YELLOW FEVER ON JAPANESE STEAMSHIP HONGKONG MARU  
ARRIVING AT HONOLULU FROM MEXICAN PORTS.

Chief Quarantine Officer Ramus at Honolulu cabled on November 5 that the steamship *Hongkong Maru* arrived at that port with a case of yellow fever on board in the person of a Japanese steerage passenger from Empalme, Mexico, via Manzanillo, in which place he had been two days prior to his departure. The passenger is reported to have sickened 9 days out from Manzanillo, and therefore the disease was thought to have been contracted by infected mosquitoes on board the vessel, although the latter had been fumigated at Salina Cruz and lay a quarter of a mile from shore during her stay at Manzanillo. The vessel was fumigated thoroughly at Honolulu and is being held for six days outside of the harbor at that port.

<sup>a</sup>Previous yellow-fever infection on the *Augustine* was reported in Public Health Reports, September 9, 1910, page 1252.

## ITALY.

## Status of cholera.

Surgeon Geddings at Naples reports, October 24:  
During the week ended October 22 cholera was reported in Italy as follows:

	Cases.	Deaths.
<i>Province of Naples.</i>		
Naples, city.....	40	17
Afragola.....	5	1
Arzano.....	1	0
Barra.....	5	3
Calvano.....	1	0
Casoria.....	1	0
Castellamare di Stabia.....	8	4
Lettere.....	2	1
Forlo d' Ischia.....	1	1
San Giovanni a Teduccio.....	2	1
Sorrento.....	1	0
Torre del Greco.....	2	0
Torre Annunziata.....	1	0
	70	28
<i>Province of Avellino.</i>		
Monteforte Irpino.....	1	0
Taurano.....	1	1
	2	1
<i>Province of Bari.</i>		
Andria.....	5	3
Bisceglie.....	4	2
Bitonto.....	1	0
Molfetta.....	2	1
	12	6
<i>Province of Campobasso.</i>		
Isernia.....	3	1
<i>Province of Caserta.</i>		
Acerra.....	1	1
Aversa.....	73	• 78
Cancello Arnone.....	5	1
Caserta.....	1	1
Friguano Piccolo.....	1	0
Gaeta.....	1	0
Grazzanise.....	1	0
Gricignano.....	1	1
Maddaloni.....	9	• 12
Santo Cipriano.....	1	1
S. Maria Capuavetere.....	1	1
Sparanise.....	1	1
	96	97
<i>Province of Lecce.</i>		
Massafra.....	3	2
Mesagne.....	1	0
San Pietro Vernitico.....	1	0
Tricase.....	1	1
	6	3
<i>Province of Messina.</i>		
San Stefano Camastra.....	1	1
<i>Province of Palermo.</i>		
Palermo (city).....	4	0
<i>Province of Rome.</i>		
Rome (city).....	6	• 7
<i>Province of Salerno.</i>		
Pellezzano.....	1	0
Mercato San Severino.....	2	2
	3	2
<i>Province of Trapani.</i>		
Trapani (harbor).....	1	1
Monte San Giuliano.....	1	1
	2	2

• From preceding week.

• In insane hospital.

Conditions in the city of Naples show an improvement. From midnight, October 21, to midnight of October 22, there were no cases and no deaths reported in the city. On October 23, however, 1 case was reported.

In Apulia it is to be noted that the infection has spread to three places on the Adriatic in the Province of Lecce, thus completing the tale of the infection of all three Provinces in the Apulia district.

The most extensively infected place in Italy for the week is Caserta, where a disastrous outbreak has taken place at Aversa, in the hospital for the insane at that point.

The disease has made a reappearance at Rome and at Palermo. Altogether the situation is encouraging, and especially so far as the city of Naples is concerned an early termination of the outbreak may be confidently predicted.

Doctor Geddings further reported November 2:

From October 29 to 30 there were reported 12 cases of cholera, with 8 deaths, in Italy. There were no cases of nor deaths from cholera in Naples on the dates named.

**NAPLES—Examination of emigrants.**

Doctor Geddings reported October 24:

*Vessels inspected at Naples and Palermo week ended October 22.*

**NAPLES.**

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Oct. 17	Re d'Italia.....	New York.....	553	31	792

**PALERMO.**

Oct. 18	Re d'Italia.....	New York.....	292	500	200
22	Konigin Luise.....	do.....	79	200	100
Total.....			371	700	300

*Rejections recommended.*

**NAPLES.**

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Other causes.	Total.
Oct. 17	Re d'Italia.....	4	1	3	2	10

**PALERMO.**

Oct. 18	Re d'Italia.....	15	20	5	40
22	Konigin Luise.....	9	11	2	22
Total.....		24	31	7	62

## JAPAN.

## Cholera.

Acting Assistant Surgeon Moore at Kobe reports, October 6 and 12: The cholera epidemic in this port shows no abatement. Since September 12 there have been reported 154 cases, with 71 deaths.

At Osaka, 20 miles distant from Kobe, 144 cases of cholera, with 79 deaths, have been reported. At Kyoto, 45 miles from Kobe, 82 cases of cholera were reported October 7.

Sanitary Inspector Bowie at Nagasaki reports, October 8:

Cholera has made its appearance at Moji, 22 cases, with 9 deaths, having been reported. At Wakamatsu, a few miles distant from Moji and on the railway to Nagasaki, 2 cases are reported. In Saga-ken 2 cases, with 1 death, are reported.

Surgeon Irwin at Yokohama reports, October 10:

From September 13 to October 4 there have been reported in Japan 299 cases of cholera, occurring as follows: In Kobe 132 cases, in Osaka 130 cases, in Fukuoka 20, in Ehime 5, in Hiroshima 5, 2 cases each in Kagawa and Tokushima, and 1 case each in Nara and Okayama. Eight prefectures have been infected.

## MEXICO.

## Yellow Fever at Campeche.

The following information, dated October 31, was received from the president of the superior board of health of Mexico:

During the week ended October 29 1 case of yellow fever was reported at Campeche, occurring October 25.

## Measures Against the Introduction of Cholera.

Consul Canada at Veracruz reports, October 15:

The Mexican Government, by a special decree dated October 12, 1910, has declared certain foreign ports to be infected with cholera and has closed all Gulf ports except Veracruz, Tampico, and Progreso against vessels from the following-named places: Bremen, Hamburg, Marseille, Bari, Naples, Galatz, Braila, St. Petersburg, Constantinople.

At Veracruz, Tampico, and Progreso there are facilities provided for the disinfection of all articles of merchandise arriving from an infected port.

## PHILIPPINE ISLANDS.

## Status of Cholera.

Chief Quarantine Officer Heiser reports, September 24 and 27:

In the city of Manila 6 cases of cholera, with 4 deaths, were reported during the week ended September 17, and 5 cases, with 5 deaths, during the week ended September 24.

There has been a decided decrease in the number of cholera cases in the city of Manila and the provinces. This is most encouraging in view of the fact that it is during the month of September that increases in the severity of the outbreaks are generally encountered. One new island, however, was infected, namely, Marinduque. The infection was probably carried by small native sailboats from Batangas. Practically 75 per cent of the cases now occurring are reported from the Province of Batangas. An increased force has been sent there to combat the disease.

**Cholera in the Provinces.**  
**WEEK ENDED SEPTEMBER 17.**

Provinces.	Cases.	Deaths.
Batangas.....	124	80
Bulacan.....	7	15
Cavite.....	1	1
Ilocos Sur.....	8	7
Nueva Ecija.....	40	20
Pampanga.....	2	2
Pangasinan.....	2	1
Rizal.....	11	10
Tarlac.....	10	6
Total.....	205	132

**WEEK ENDED SEPTEMBER 24.**

Batangas.....	168	109
Bulacan.....	7	7
Cavite.....	2	2
Ilocos Sur.....	6	6
Nueva Ecija.....	20	13
Pangasinan.....	10	5
Rizal.....	18	12
Tarlac.....	3	3
Total.....	234	157

**RUSSIA.**

**Status of Cholera.**

Acting Assistant Surgeon De Forest at Libau reports, October 24:

During the week ended October 21 there were reported in St. Petersburg 88 cases, of cholera, with 26 deaths; in all Russia, exclusive of St. Petersburg, 855 cases, with 459 deaths.

**LIBAU—Examination of Emigrants.**

Doctor De Forest further reports:

The steamship *Birma* sailed from this port for New York October 15, with 758 passengers and a crew of 92. All had been in Libau and free from infection for five full days and for Odessa passengers seven days. All were vaccinated before embarkation. The ship and cargo were in good sanitary condition.

**SERVIA.**

**BELGRADE—Cholera.<sup>a</sup>**

Consul Bergh reports, October 12:

A case of cholera occurred at Belgrade October 7 on a boat lying in the river Save. The patient was removed to hospital and the boat and personnel were placed in strict quarantine. On October 8 a second case occurred in the person of a builder. No connection has been shown to exist between the two cases, but the patient in the second case is stated to have been fishing on the river on the day preceding the attack and to have drunk freely of river water. Both cases have been bacteriologically verified. The use of river water both from the Save and Danube, and the sale of fish, have been prohibited. All measures of isolation and disinfection have been taken.

<sup>a</sup> Public Health Reports, October 21, 1910, page 1503.

Travelers arriving at Belgrade from points in Hungary are medically examined. Barracks for the detention of suspect travelers have been erected at railroad and steamboat stations.

## ZANZIBAR.

## ZANZIBAR—Smallpox—Examination of Rats.

Consul Weddell reports, October 6:

From September 19 to 25 there were 4 deaths from smallpox in Zanzibar. From June 8 to September 25, 150 cases, with 71 deaths, have been reported. The total number of vaccinations for the same period is 20,659.

During the week ended September 30, 1,482 rats were received and examined for plague infection. No plague-infected rats were found.

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

## Reports Received During Week Ended November 11, 1910.

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

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	Sept. 18-24.....	.....	1	
Hankow.....	Sept. 24.....	2	.....	
Germany:				
Marienburg.....	Oct. 3-9.....	6	2	
Indo-China:				
Saigon.....	Sept. 19-25.....	3	3	
Italy, general.....	Oct. 29-30.....	12	8	
Provinces—				
Avellino.....	Oct. 2-7.....	3	1	
Bari—				
Carbonara.....	Oct. 2-7.....	1	1	
Molfetta.....	Oct. 2-7.....	1	1	
Terlizzi.....	Oct. 2-7.....	1	.....	
Caserta.....	Oct. 2-7.....	17	6	
Foggia—				
Cerignola.....	Oct. 2-7.....	2	2	
Naples.....	Oct. 2-7.....	68	15	
Rome—				
Fiumicino.....	Oct. 2-7.....	1	1	
Avellino.....	Oct. 16-22.....	2	1	
Bari.....	Oct. 16-22.....	12	6	
Campobasso.....	Oct. 16-22.....	3	1	
Caserta.....	Oct. 16-22.....	96	97	
Lecce.....	Oct. 16-22.....	6	3	
Messina.....	Oct. 16-22.....	1	1	
Naples.....	Oct. 16-22.....	70	28	
Palermo.....	Oct. 16-22.....	.....	.....	
Palermo.....	Oct. 16-22.....	4	0	
Rome.....	Oct. 16-22.....	.....	.....	
Rome.....	Oct. 16-22.....	6	7	From the previous week.
Salerno.....	Oct. 16-22.....	3	2	
Trapani.....	Oct. 16-22.....	2	2	
Japan:				
Fukuoka.....	Oct. 4.....	20	.....	
Kagawa.....	Oct. 4.....	2	.....	
Kyoto.....	Oct. 7.....	82	30	
Kobe.....	Oct. 3-9.....	38	24	
Mojil.....	Oct. 8.....	22	9	
Nara.....	Oct. 4.....	1	.....	
Okayama.....	Oct. 4.....	1	.....	
Tokushima.....	Oct. 7.....	2	.....	
Wakamatsu.....	Oct. 8.....	2	.....	
Java:				
Batavia.....	Sept. 8-24.....	10	5	
Persia:				
Kermanshah.....	Oct. 1-10.....	67	46	Present in all localities between Hamadan and Ksinekin.

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

Reports Received During Week Ended November 11, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands:</b>				
Manila.....	Sept. 11-24.....	11	9	
<b>Provinces—</b>				
Batangas.....	Sept. 11-24.....	292	189	
Bulacan.....	Sept. 11-24.....	14	12	
Cavite.....	Sept. 11-24.....	3	3	
Ilocos Sur.....	Sept. 11-24.....	14	13	
Nueva Ecija.....	Sept. 11-24.....	60	33	
Pampanga.....	Sept. 11-17.....	2	2	
Pangasinan.....	Sept. 11-24.....	12	6	
Rizal.....	Sept. 11-24.....	29	6	
Tarlac.....	Sept. 11-24.....	13	9	
<b>Russia, general.</b>	Nov. 11-Oct. 1.....	9,554	4,632	
St. Petersburg.....	.....do.....	791	296	
Cronstadt.....	.....do.....	17	9	
Archangel.....	.....do.....	1	1	
<b>Government of—</b>				
Vologda.....	.....do.....	35	17	
St. Petersburg.....	.....do.....	127	87	
Livonia.....	.....do.....	41	30	
Courland.....	.....do.....	10	4	
Novgorod.....	.....do.....	47	20	
Minsk.....	.....do.....	44	16	
Moscow.....	.....do.....	22	9	
Mohilev.....	.....do.....	20	5	
Mohilev.....	.....do.....	7	3	
Vitebsk.....	.....do.....	104	47	
Smolensk.....	.....do.....	95	34	
Podolia.....	.....do.....	270	122	
Kief.....	.....do.....	826	370	
Chernigov.....	.....do.....	61	22	
Poltava.....	.....do.....	64	46	
Olonez.....	.....do.....	2	1	
Kharkoff.....	.....do.....	35	9	
Orel.....	.....do.....	27	11	
Pskov.....	.....do.....	1	.....	
Kursk.....	.....do.....	141	68	
Voronesch.....	.....do.....	381	146	
Tambov.....	.....do.....	371	206	
Rjasan.....	.....do.....	87	44	
Tver.....	.....do.....	6	1	
Vladimir.....	.....do.....	18	14	
Yaroslav.....	.....do.....	51	25	
Nijni-Novgorod.....	.....do.....	61	36	
Kazan.....	.....do.....	39	21	
Kostroma.....	.....do.....	60	21	
Simbirsk.....	.....do.....	395	243	
Samara.....	.....do.....	1,448	735	
Saratov.....	.....do.....	614	283	
Stavropol.....	.....do.....	38	17	
Stavropol.....	.....do.....	.....	1	
Astrakhan.....	.....do.....	60	32	
Viatka.....	.....do.....	25	11	
Orenburg.....	.....do.....	575	295	
Perm.....	.....do.....	28	8	
Yekaterinoslav.....	.....do.....	285	160	
Tauride.....	.....do.....	49	32	
Kertsch.....	.....do.....	8	6	
Bessarabia.....	.....do.....	28	11	
Kherson.....	.....do.....	246	122	
Black Sea.....	.....do.....	5	1	
Baku.....	.....do.....	63	37	
Tiflis.....	.....do.....	90	41	
Koutais.....	.....do.....	39	26	
Elizabethpol.....	.....do.....	51	35	
Erivan.....	.....do.....	138	77	
Tomsk.....	.....do.....	80	34	
Tobolsk.....	.....do.....	3	1	
<b>Territory of—</b>				
Tourgal.....	.....do.....	26	7	
Ural.....	.....do.....	55	42	
Don.....	.....do.....	348	131	
Don.....	.....do.....	2	1	
Kuban.....	.....do.....	217	113	
Terek.....	.....do.....	60	22	
Daghestan.....	.....do.....	240	118	
Kars.....	.....do.....	127	57	
Ferranah.....	.....do.....	44	28	
Batum.....	.....do.....	1	1	
Syr-Daria.....	.....do.....	63	41	

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

Reports Received During Week Ended November 11, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia—Continued.</b>				
<b>Territory of—Continued.</b>				
Trans-Baikal.....	Nov. 11-Oct. 1.....	7	5	
Amur.....	do.....	44	36	
Akmolinsk.....	do.....	80	38	
Semipalatinsk.....	do.....	4	2	
<b>Prefecture of—</b>				
Nikolaiev.....	do.....	7	3	
Odessa.....	do.....	44	30	
Baku.....	do.....	59	28	
<b>Servia:</b>				
Belgrade.....	Oct. 7-22.....	6	1	Including 1 case previously reported.
<b>Straits Settlements:</b>				
Singapore.....	Sept. 11-17.....	3		
<b>Tripoli:</b>				
Tripoli.....	Oct. 3-16.....	12	9	Including 3 fatal cases previously reported.
<b>Turkey in Asia:</b>				
Erzeroum.....	Oct. 7-15.....	13	13	
Trebizond.....	Oct. 10-16.....	109	60	

## YELLOW FEVER.

<b>Brazil:</b>				
Manaos.....	Oct. 9-15.....	2	2	S. s. Augustine, left Manaos Sept. 24 bound for Liverpool, via Para and Lisbon. After leaving Manaos 5 cases of yellow fever developed; 2 of these were landed at Para, 2 were buried at sea, and one was landed at Liverpool convalescent.
Para.....	Oct. 9-15.....	11	7	
<b>Great Britain:</b>				
Liverpool.....	Oct. 14.....	1		See remark opposite Manaos.
<b>Hawaii:</b>				
Honolulu.....	Nov. 5.....	1		From s. s. Hongkong Maru, from Empalme, Mexico, via Manzanillo.
<b>Mexico:</b>				
Campeche.....	Oct. 25.....	1		
<b>Sierra Leone:</b>				
Freetown.....	Sept. 1-31.....		1	

## PLAGUE.

<b>China:</b>				
Amoy.....	Sept. 18-24.....		1	

## SMALLPOX.

<b>Brazil:</b>				
Para.....	Oct. 9-15.....	1		
<b>China:</b>				
Shanghai.....	Sept. 26-Oct. 9.....		4	
<b>Egypt:</b>				
Cairo.....	Sept. 24-30.....	1	1	
<b>Indo-China:</b>				
Saigon.....	Sept. 19-25.....	3	3	
<b>Italy:</b>				
Genoa.....	Oct. 13-19.....	2		
<b>Russia:</b>				
Moscow.....	Oct. 2-8.....	7	1	
St. Petersburg.....	Sept. 25-Oct. 1.....	21	3	
<b>Straits Settlements:</b>				
Singapore.....	Oct. 11-24.....	18	5	
<b>Uruguay:</b>				
Montevideo.....	Aug. 1-31.....	31	14	
<b>Zanzibar:</b>				
Zanzibar.....	Sept. 19-25.....	6	4	

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

## Reports Received from June 25 to November 4, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see PUBLIC HEALTH REPORTS for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Arabia:</b>				
Maskat.....	Sept. 18-Oct. 2.....	25	19	Including Matrah.
	Sept. 23-Oct. 5.....	12	5	
<b>Austria-Hungary, general</b>				
Hungary, general.....	Aug. 19-Oct. 8.....	207	105	
Budapest.....	Sept. 8-Oct. 1.....	8	5	
<b>Galicja—</b>				
Padwoloczyaska.....	June 20.....	1	1	From Russia.
Gonoyo.....	Sept. 3-6.....	1	1	Present.
Kalocsa.....	Sept. 23.....	1	1	
Mohacs.....	Aug. 25-Sept. 24.....	22	10	
Nagybajcs.....	Sept. 7.....	1	1	
Neusatz.....	Sept. 23.....	1	1	Present.
Pressburg.....	Aug. 24-30.....	1	1	From the steamer Rogensburg.
Trieste.....	Oct. 16.....	1	1	
Vienna.....	Aug. 21-Sept. 24.....	9	2	
Vorosmarton.....	Aug. 19-30.....	1	1	
<b>Borneo:</b>				
Pamangkjat.....	July 22-31.....	20	20	
<b>Brazil:</b>				
Pernambuco.....	Oct. 20.....	1	1	On s. s. Mansos.
<b>China:</b>				
Amoy.....	July 17-Sept. 3.....	6	5	Epidemic.
Fatsan.....	July 1.....	1	1	
Hankow.....	Aug. 7-13.....	2	1	Imported.
Hongkong.....	July 10-16.....	9	6	
Swatow.....	May 10-June 6.....	1	254	
<b>Colombo:</b>				
Ceylon.....	July 3-9.....	1	1	
<b>Denmark:</b>				
Copenhagen.....	Sept. 27.....	1	1	On a steamer from Holland.
<b>France:</b>				
Marseille.....	Oct. 4-6.....	3	3	Two cases from s. s. Rospore from Piraeus; 1 case a contact.
<b>Germany:</b>				
Freiburg.....	Sept. 9-13.....	2	2	Suburb of Marienburg.
Kalthoff.....	Sept. 14.....	10	6	
Marienburg.....	Sept. 13-Oct. 2.....	10	4	
Ruhleben (near Berlin).....	June 23-27.....	2	2	Among Russian emigrants.
Sommerau.....	Sept. 22.....	1	1	
Spandau (near Berlin).....	Aug. 29.....	2	1	
<b>India:</b>				
Bombay.....	June 8-Oct. 4.....	1	35	Madras Presidency Oct. 1-Dec. 31, 1909, cases 5,579, deaths 3,264; Jan. 1-Aug. 31, 1910, cases 23,101, deaths 14,671.
Calcutta.....	May 1-Sept. 17.....	1	509	
Kurrachee.....	July 24-Oct. 1.....	40	34	
Madras.....	May 21-Sept. 30.....	1	95	
Moulmine.....	May 1-7.....	1	1	
Negapatam.....	Apr. 16-Sept. 30.....	1	229	
Rangoon.....	May 8-Sept. 24.....	1	16	
<b>Indo-China:</b>				
Saigon.....	Jan. 1-Sept. 18.....	75	49	
<b>Italy (exclusive of Naples)</b>				
Province of Avellino.....	Oct. 2-Oct. 30.....	420	200	
Province of Bari—				
Andria.....	Aug. 17-Oct. 1.....	36	26	
Barletta.....	Aug. 17-Sept. 24.....	167	102	
Bisceglie.....	Aug. 17-20.....	2	2	
Bitonto.....	Aug. 17-Sept. 4.....	3	1	
Canosa.....	Aug. 17-Sept. 10.....	10	2	
Grumo Appula.....	Aug. 17-27.....	1	1	
Molfetta.....	Aug. 17-Oct. 8.....	77	27	
Ruvo.....	Aug. 17-Oct. 1.....	4	1	
Spinazzola.....	Aug. 17-Sept. 4.....	15	8	
Terlizzi.....	Oct. 1.....	1	1	
Trani.....	Aug. 17-Sept. 10.....	93	71	
Triggiano.....	Sept. 18-24.....	1	1	
Province of Campobano.....	Oct. 9-15.....	3	1	
Province of Caserta.....	Oct. 1-7.....	78	29	
<b>Province of Foggia—</b>				
Cerignola.....	Aug. 17-Oct. 8.....	36	28	
Margherita di Savoia.....	Aug. 17-Sept. 10.....	24	24	
Ortanova.....	Aug. 17-Sept. 10.....	4	2	
San Ferdinando.....	Aug. 17-Sept. 10.....	15	15	
Trinitapoli.....	Aug. 17-Oct. 1.....	55	30	

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

Reports Received from June 25 to November 4, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Italy—Continued.</b>				
Province of Naples.....	Oct. 9-15.....	67	13	
Naples.....	Sept. 25-Oct. 30.....	327	130	
Province of Potenza—				
Genzano.....	Aug. 17-27.....	2	1	
Palazzo San Gervaso.....	Aug. 17-27.....	1	1	
Province of Rome—				
Rome.....	Sept. 25-Oct. 1.....	5	1	
Province of Salerno.....	Oct. 1-15.....	15	6	
Province of Sicily—				
Girgenti.....	Oct. 21.....	1	.....	
Monreale.....	Oct. 1.....	1	.....	
Palermo.....	Sept. 28.....	4	.....	
Trapani.....	Oct. 21.....	1	.....	
Sardinia.....	Oct. 3.....	4	1	
<b>Japan:</b>				
Awaji Island.....	July 22-28.....	3	.....	
Ehime.....	Oct. 4.....	5	.....	
Hiroshima.....	Oct. 4.....	5	.....	
Ibogan.....	Aug. 5.....	3	1	
Kobe.....	Sept. 12-Oct. 2.....	102	53	Sept. 12, first case from s. s. Amakusa Maru, from Dalny.
Mojl.....	Aug. 13.....	1	.....	On s. s. Helios.
Nagasaki.....	Aug. 15.....	1	.....	On s. s. Kasuga Maru, from Shanghai.
Osaka.....	Aug. 6-Oct. 1.....	144	79	
Yokohama.....	Aug. 22.....	1	.....	On s. s. Siberia, from Shanghai.
<b>Java.....</b>				June 18, present in extreme eastern part.
Batavia.....	May 8-Sept. 17.....	369	247	} Mainly among natives.
Samarang.....	May 8-July 31.....	323	266	
Soerabaya.....	May 8-Aug. 20.....	125	70	
<b>Korea:</b>				
Chinampo.....	Aug. 26-27.....	2	1	From steamship Suma Maru.
<b>Manchuria:</b>				
Dalny.....	Aug. 21-Sept. 10.....	4	1	
<b>Morocco, general.....</b>	Sept. 27-Oct. 7.....	.....	5	Between Rabat and Casablanca, among troops.
<b>Netherlands:</b>				
Rotterdam.....	July 23-29.....	1	.....	From a vessel from Russia.
<b>Persia:</b>				
Ardebil.....	July 1-Aug. 21.....	70	56	
Chudja.....	Sept. 4.....	2	1	
Enzeli.....	Aug. 20.....	3	3	
Hassan Branch.....	July 11-13.....	6	2	
Khorassan Province—				
Badjurlian.....	Aug. 1-Sept. 4.....	2	1	
Nir.....	Sept. 4.....	.....	.....	Present.
Serab.....	Aug. 4-27.....	.....	.....	Do.
<b>Philippine Islands:</b>				
Manila.....	May 22-Sept. 10.....	394	257	July 29, 1 fatal case* from s. s. Batangueno. First quarter, 1910—cases, 56; deaths, 45. Second quarter, 1910—cases, 37; deaths, 27.
Provinces.....				First quarter, 1910—cases, 578; deaths, 432. Second quarter, 1910—cases, 2,324; deaths, 1,692.
Albay.....	Sept. 4-10.....	3	2	
Batangas.....	May 1-Sept. 10.....	862	547	
Bulacan.....	May 1-Sept. 10.....	789	557	
Cavite.....	June 12-30.....	3	2	
Iloos Sur.....	Aug. 14-Sept. 10.....	29	25	
Mindoro.....	Aug. 21-27.....	3	2	
Mountain Province.....	June 26-Aug. 20.....	5	4	
Nueva Ecija.....	June 26-Sept. 10.....	502	333	
Pampanga.....	Apr. 24-Sept. 10.....	232	260	
Pangasinan.....	Apr. 24-Sept. 10.....	3,694	3,004	
Rizal.....	June 12-Sept. 10.....	242	161	
Tarlac.....	May 8-Sept. 10.....	245	184	
Union.....	May 1-July 30.....	3	1	
<b>Roumania:</b>				
Galatz.....	Sept. 16.....	1	1	An Italian seaman.
Tulcea.....	Oct. 5.....	1	1	
<b>Russia (total for all Russia).....</b>				
Amolinsk, territory.....	Aug. 7-Sept. 10.....	552	348	
Archangel, government—				
Archangel.....	July 17-23.....	1	.....	May 8 to Oct. 21—cases 204,089; deaths, 95,252.

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

Reports Received from June 25 to November 4, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia—Continued.</b>				
Astrakhan, government....	July 3-Sept. 10....	1,734	765	
Baku, government.....	May 29-Sept. 10....	1,023	539	
Baku.....	July 3-Sept. 10....	933	385	
Batum, territory.....	Aug. 28-Sept. 10....	13	6	
Bessarabia.....	June 5-Sept. 10....	84	33	
Black Sea, province.....	July 3-Sept. 10....	494	161	
Cronstadt.....	July 17-Sept. 10....	203	107	
Daghestan, territory.....	July 17-Sept. 10....	1,287	435	
Don, territory.....	May 29-Sept. 10....	20,511	2,033	
Rostov on the Don.....	June 19-Sept. 10....	3,079	1,029	
Erivan, government.....	July 24-Sept. 10....	902	444	
Esthonia, government—				
Reval.....	July 24-30.....	1		
Finland.....	Aug. 6.....	2		
Kaluga, government.....	July 17-Aug. 6....	21	3	
Kars, territory.....	Aug. 7-Sept. 10....	572	247	
Kharkov, government.....	May 29-Sept. 10....	2,586	1,090	
Khazan.....	June 26-Sept. 10....	1,877	811	
Kherson, government.....	May 29-Sept. 10....	8,784	4,744	
Odessa.....	May 29-Oct. 7....	597	335	June 18-20: Fatal case on s. s. Colenzo.
Kief, government.....	May 20-Sept. 10....	2,120	810	
Kostroma, government.....	May 29-Sept. 10....	1,818	736	
Koutais, government.....	Aug. 7-Sept. 10....	368	260	
Kuban, government.....	May 29-Sept. 10....	19,373	10,154	
Kursk, government.....	June 26-Sept. 10....	5,188	2,033	
Livonia, government.....	Aug. 28.....	9	4	
Riga.....	Aug. 1-Sept. 24....	27		
Minsk, government.....	May 29-Sept. 10....	459	152	
Mohilev, government.....	May 15-Sept. 10....	180	76	
Moscow, government.....	July 24-Sept. 10....	162	72	
Moscow.....	July 10-30.....	10	5	
Nikolajev.....	Aug. 28-Sept. 10....	37	19	
Nizhni Novgorod, govern- ment.....	July 3-Sept. 10....	1,724	740	
Novgorod, government.....	July 17-Sept. 10....	293	130	
Olonez, government.....	Aug. 14-Sept. 10....	10	5	
Orel, government.....	Mar. 30-Sept. 10....	417	162	
Orenburg, government.....	July 17-Sept. 10....	2,091	1,036	
Orlov.....	July 3-9.....	22	3	
Podolia, government.....	July 3-Sept. 10....	733	284	
Pensa, government.....	July 10-Aug. 13....	401	138	
Perm, government.....	July 17-Sept. 10....	601	204	
Perm, government.....	July 17-30.....	55	19	
Poltava, government.....	May 29-Sept. 10....	2,889	1,164	
Pakov, government.....	Aug. 14-Sept. 10....	5	1	
Rjasan, government.....	July 3-Sept. 10....	1,925	805	
St. Petersburg, government St. Petersburg.....	July 10-Sept. 10....	420	217	
St. Petersburg.....	June 19-Sept. 10....	3,137	1,297	
Samara, government.....	June 19-Sept. 10....	8,215	3,656	
Sarapul, government.....	July 17-Aug. 27....	1,010	539	
Saratov, government.....	June 19-Sept. 10....	5,228	2,134	
Semiratsinsk, territory.....	Sept. 4-10.....	11	4	
Simbirsk, government.....	June 19-Sept. 10....	2,959	1,370	
Smolensk.....	July 24-Sept. 10....	69	31	
Stavropol, government.....	June 26-Sept. 10....	3,861	1,862	
Syr Darya.....	July 24-Sept. 10....	61	35	
Tambov, government.....	June 19-Sept. 10....	3,688	1,755	
Transbalkal, territory.....	Sept. 4-10.....	15	8	
Taurida, government.....	May 29-Sept. 10....	4,014	1,969	
Kertsch.....	May 29-Sept. 10....	482	217	
Sebastopol.....	June 19-Sept. 10....	44	24	
Theodosia.....	June 19-25.....			Present.
Terek, territory.....	June 19-Sept. 10....	1,197	633	
Tiflis, government.....	July 17-Sept. 10....	1,495	550	
Tiflis.....	June 19-July 16....	113	41	
Tchernigov.....	May 29-Sept. 10....	1,149	423	
Tobolsk.....	Aug. 7-Sept. 10....	117	42	
Tomsak, government.....	Aug. 14-Sept. 10....	200	62	
Trans-Caspian, territory.....	July 3-Sept. 10....	62	27	
Trans-Caucasia—				
Tschernomorsk, dis- trict—				
Novorossysk.....	June 19-July 3....	7	6	
Tula, government.....	July 10-Aug. 27....	34	10	
Turgal, territory.....	July 24-Sept. 10....	59	36	
Tver, government.....	July 24-Sept. 10....	16	1	

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

Reports Received from June 25 to November 4, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia—Continued.</b>				
Ufa, government.....	July 10-Sept. 10...	588	361	
Ural, territory.....	Aug. 14-Sept. 10...	122	73	
Vitebsk, government.....	May 29-Sept. 10...	82	30	
Veronesch, government.....	May 29-Sept. 10...	4,130	1,958	
Viatka.....	July 24-Sept. 10...	275	146	
Vladimir, government.....	July 24-Aug. 30...	7	2	
Volhynia, government.....	July 3-Sept. 10...	47	25	
Vologda, government.....	Aug. 14-Sept. 10...	188	109	
Warsaw, district.....	Aug. 25-Sept. 2...	25	28	Sept. 22, still present.
Yaroslav, government.....	July 24-Sept. 10...	1,088	578	
Yaroslav.....	July 10-23.....	25	13	
Yekaterinislav, govern- ment.....	May 29-Sept. 10...	14,504	6,670	
Yellsavetpol.....	Aug. 7-Sept. 10...	54	44	
<b>Servia:</b>				
Belgrade.....	Oct. 8.....	1		
<b>Siam:</b>				
Bangkok.....	May 4-Sept. 10...	806	799	
<b>Straits Settlements:</b>				
Singapore.....	May 8-Sept. 10...	112	110	
<b>Tripoli:</b>				
Tripoli.....	Oct. 3-16.....	12	9	
<b>Turkey:</b>				
Constantinople.....	Sept. 13-Oct. 10...	84	46	
<b>Turkey in Asia:</b>				
Bagdad.....	Oct. 24.....			Present.
Erzerum, vilayet.....	Aug. 22-Oct. 15...	543	365	
Irakil.....	Sept. 25-Oct. 1....	1	1	
Samsoun.....	Sept. 18-24.....	1		
Tizirk.....	Sept. 18-24.....	1		
Trebizond.....	Sept. 10-Oct. 16...	489	262	

## YELLOW FEVER.

<b>Brazil:</b>				
Bahia.....	Apr. 30-Aug. 26...	16	12	
Manaos.....	May 30-Oct. 1....	46	46	
Para.....	May 30-Oct. 8....	149	100	July 25: One death on steamship Augustine, en route from Para to Lisbon, 2 days previous to arrival at Madeira.
Pernambuco.....	May 16.....	21	1	
<b>Costa Rica:</b>				
Limon.....	July 9-14.....	1	1	
San Jose.....	May 28-July 9....	3	2	Fatal case May 28 from Barranquilla; case June 29 from Siquires; fatal case July 9 from Tivives.
Siquires.....	July 31.....	1	1	
<b>Ecuador:</b>				
Babahoyo.....	Sept. 1-15.....	1		
Duran.....	Aug. 16-Sept. 30...	2		
Guayaquil.....	May 16-Sept. 30...	67	29	
Milagro.....	Aug. 16-31.....	2	1	Present Sept. 19.
<b>Gold Coast:</b>				
Sekondi.....	May 1-27.....	8	8	
<b>Mexico:</b>				
Campeche.....	Sept. 25-Oct. 22...	7	6	
<b>Sierra Leone:</b>				
Freetown.....	May 1-Aug. 1....	7	7	
Sherboro.....	May 20.....			Present.
<b>Venezuela:</b>				
Caracas.....	Sept. 17.....			Do.
La Guaira.....	June 16-30.....		1	
Puerto Cabello.....	Oct. 12.....			Do.

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

Reports Received from June 25 to November 4, 1910.

## PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Argentina:</b>				
Rosario.....	Feb. 1-28.....	1	1	
Tucuman.....	Feb. 28-May 31....	37	16	
<b>Brazil:</b>				
Bahia.....	Apr. 30-Aug. 26...	12	12	
Para.....	Sept. 19.....	1	1	
Pernambuco.....	Apr. 1-June 30.....	2	2	
Rio de Janeiro.....	June 5-Aug. 31.....	2	1	
<b>Chile, general.....</b>				
Iquique.....	Jan. 1-May 31.....	104	35	
Mejillones.....	May 8-Sept. 4.....	38	13	
Pisagua.....	Apr. 27.....	1	1	Present.
Taltal.....	Apr. 1-May 31.....	14	4	
Taltal.....	Apr. 1-27.....	12	12	
<b>China:</b>				
Amoy.....	July 3-Aug. 20.....		10	May 8-June 11, 8 to 12 deaths daily. Aug. 6, present in vicinity.
Kulangsu International city.....	June 5-11.....		1	
Canton.....	July 13-Aug. 6.....	43	31	
Chao Yang district.....	May 5-19.....		3,000	Mainly at Ho Peng. Present also at Chelin, Feng-chow-so, Taipushien, and Tsai-tang-eh. Epidemic.
Chang-pu district.....	June 11.....			Do.
Ching-chew district.....	June 11.....			
Hankow.....	May 15-28.....	5	3	
Hongkong.....	May 8-Aug. 27.....	20	18	
Swatow.....	June 1-July 11.....			Present in vicinity.
<b>Ecuador:</b>				
Babahoyo.....	Sept. 1-30.....	5	1	
Duran.....	Sept. 16-30.....	1	1	
Guayasquil.....	May 16-Sept. 30...	130	45	
Matilde, plantation.....	Sept. 1-15.....	1	1	
Rocafuerte.....	Aug. 16-31.....	1	1	Sept. 15—1 case in hospital.
<b>Egypt:</b>				
Alexandria.....	May 24-Sept. 29...	28	17	
Ismailia.....	June 19.....	1	1	
Port Said.....	June 14-Sept. 24...	29	13	
<b>Provinces—</b>				
Assiout.....	May 26-Oct. 6.....	26	11	
Assouan.....	Apr. 30-June 8.....	2	2	
Beni Souef.....	May 27-June 29...	8	5	
Dakalyeh.....	Aug. 16-26.....	3	2	
Galloobeeh.....	May 21-Sept. 9.....	9	2	
Garbieh.....	May 14-Oct. 5.....	46	17	
Fayoum.....	May 28-July 11...	20	14	
Kena.....	May 27-June 18...	24	22	
Menouf.....	May 24-Oct. 3.....	120	24	
Minieh.....	May 31-Aug. 19...	24	9	
<b>Great Britain:</b>				
London.....	Oct. 18-19.....	2	1	Case Oct. 18 from s. s. Oceana from Bombay; case Oct. 19 from s. s. Hindle from Bombay.
<b>Hawaii:</b>				
Honolulu.....	July 5-12.....	2	2	
<b>India:</b>				
Bombay.....	May 18-Oct. 4.....		912	
Calcutta.....	May 1-Sept. 17.....		538	
Kurrachee.....	May 15-Oct. 1.....	358	355	
Madras.....	June 25-July 1.....		1	
Rangoon.....	May 8-Sept. 24.....		443	
Bombay Presidency and Sind.....	May 1-Aug. 27.....	6,085	4,477	
Madras Presidency.....	May 1-Aug. 27.....	616	486	
Bengal.....	May 1-Aug. 27.....	1,548	1,371	
United provinces.....	May 1-Aug. 27.....	6,670	6,039	
Punjab.....	May 1-Aug. 27.....	43,958	38,304	
Burma.....	May 1-Aug. 27.....	1,675	1,586	
<b>Eastern Bengal and Assam.....</b>				
Central provinces, including Berar.....	June 12-July 9.....	48	45	
Mysore State.....	May 1-Aug. 27.....	1,278	719	
Hyderabad State.....	May 1-Aug. 27.....	882	614	
Central India.....	May 1-Aug. 27.....	704	619	
Rajputana and Ajmer-Merwara.....	May 1-Aug. 27.....	231	123	
		8,246	7,254	

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

Reports Received from June 25 to November 4, 1910.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Eastern Bengal and Assam—Continued.</b>				
Kashmir.....	May 1-June 11.....	58	49	
North West Province.....	June 12-18.....	3	3	
Grand total.....		72,002	61,689	
<b>Indo-China:</b>				
Saigon.....	Jan. 1-Sept. 18....	98	39	
<b>Japan:</b>				
Formosa.....	May 8-June 18....	16	12	
Osaka.....	May 1-June 25....	9	9	
Yokohama.....	Aug. 31.....	1	1	On steamship Manchuria from Hongkong.
<b>Malta:</b>				
Valetta.....	July 16.....	1		In quarantine station on Comino Island, from s. s. North Wales.
Mauritius.....	Apr. 1-July 29....	22	10	
<b>New Zealand:</b>				
Auckland.....	May 23.....	1		
<b>Perals:</b>				
Bouchir.....	Apr. 29-June 25....	51	40	
<b>Peru:</b>				
Arequipa Department.....	Mar. 1-31.....	16	8	
Mollendo.....	May 16-Aug. 23....	2	1	Sept. 12, present.
Callao Department.....	Mar. 1-31.....	2		
Callao.....	May 12-Sept. 3....	4		Case May 12 from s. s. Victoria; case May 19 from s. s. Nicarie.
Lambayeque Department.....	Mar. 1-July 31....	40	20	
Libertad Department.....	Mar. 1-Aug. 31....	76	40	
Lima Department.....	Mar. 1-July 31....	20	12	
Piura Department.....	Mar. 1-July 31....	6	3	
<b>Rhodes:</b>				
Aplakia.....	May 22-28.....			Present.
<b>Russia:</b>				
Astrakhan government—				
Khirgiz Steppe.....	June 26-July 7....	13	12	In Kalmuk and Narinek.
Moscow.....	Aug. 14-Sept. 3....	2	1	
Odessa.....	July 18-Oct. 8....	124	35	
St. Petersburg.....	May 6-28.....	3	3	
<b>Siam:</b>				
Bangkok.....	Apr. 25-Sept. 10....	30	27	
<b>Straits Settlements:</b>				
Singapore.....	May 8-28.....	3	3	
<b>Trinidad:</b>				
Port of Spain.....	May 15-July 14....	2	2	
<b>Tunis:</b>				
Tunis.....	June 30.....	5	3	
<b>Turkey in Asia:</b>				
Basra.....	June 12-Aug. 13....	5	4	
Lobelia.....	May 1-24.....	25	27	And vicinity.
<b>Venezuela:</b>				
Caracas.....	July 30-Oct. 25....	7	7	
<b>Zanzibar:</b>				
Zanzibar.....	Sept. 10-14.....	1	1	

## SMALLPOX.

<b>Abyssinia:</b>				
Adis Ababa.....	May 16-Oct. 1....			Present.
<b>Arabia:</b>				
Aden.....	Sept. 19-26.....		1	
Maskat.....	July 19-23.....	1		
<b>Argentina:</b>				
Buenos Aires.....	Feb. 1-July 31....		408	
Mendoza, province.....	July 27.....			Epidemic.
Rosario.....	Apr. 1-July 31....	5	5	In February 1 case, 1 death.
San Juan, province.....	July 27.....			Epidemic.
<b>Algeria:</b>				
Bona.....	May 1-31.....	1	1	
<b>Australia:</b>				
Victoria, general.....	Apr. 3-19.....	1	1	
<b>Austria-Hungary:</b>				
Bukowina.....	July 10-16.....	1		
Galicja.....	May 29-July 23....	5		
Barbados.....	Aug. 16.....	1		From steamship Byron.

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

Reports Received from June 25 to November 4, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Belgium:</b>				
Antwerp.....	July 24-Oct. 1.....	2	1	
Ghent.....	July 24-Sept. 10.....		2	
<b>Brazil:</b>				
Bahia.....	Apr. 30-Aug. 19.....	306	223	
Campinas.....	July 17-23.....		1	
Manaos.....	Aug. 6-Sept. 3.....			Present.
Para.....	May 29-Oct. 8.....	72	21	
Pernambuco.....	Mar. 16-June 30.....		331	
Rio de Janeiro.....	Apr. 18-Sept. 25.....	39		
Santos.....	May 22-Aug. 16.....		12	
Sao Paulo.....	June 12-25.....		4	
<b>Canada:</b>				
British Columbia—				
Fernie.....	June 12-25.....	4		
Vancouver.....	May 1-31.....	2		
Victoria.....	Aug. 21-Oct. 8.....	5		
Manitoba—				
Dauphin.....	Sept. 15.....			Present.
Winnipeg.....	June 19-25.....	1		
Nova Scotia—				
Halifax.....	June 14-Oct. 15.....	17		
Pictou.....	June 12-July 23.....	9	1	
Sydney.....	July 3-16.....	20		
Ontario—				
Kingston.....	Oct. 3.....			Present in vicinity.
Toronto.....	June 5-Sept. 17.....	13		
<b>Ceylon:</b>				
Colombo.....	June 26-Sept. 24.....	14	7	
<b>Chile:</b>				
Antofagasta.....	July 3-9.....	4		
Chilean.....	May 14.....			Epidemic.
Santiago.....	June 19-25.....			Present.
Valparaiso.....	May 19-Sept. 24.....	312		Deaths not reported.
Victoria.....	May 14.....			Present.
<b>China:</b>				
Canton.....	May 8-28.....	9		
Chefoo.....	June 18-July 2.....	1	1	June 5—Present. July 2—One case from a vessel.
Chungking.....	Aug. 27.....			Present.
Hongkong.....	May 8-July 30.....	6	3	
Nanking.....	May 7-Oct. 8.....			Present.
Shanghai.....	May 22-Sept. 25.....	5	50	Cases among foreigners, deaths among natives. June 9—Three cases from U. S. cruiser New Orleans from Nanking.
Swatow.....	June 6-July 17.....			Present.
Tsingtau.....	June 12-18.....	2		
<b>Cuba:</b>				
Habana.....	Sept. 17.....	1		On s. s. Corcovado, from Corunna.
<b>Egypt, general</b> .....	Apr. 30-June 17.....	415	85	
Alexandria.....	May 1-Aug. 31.....		13	
Cairo.....	May 21-Sept. 23.....	11	5	
Suez.....	May 21-27.....	1		
<b>France:</b>				
Paris.....	May 29-Oct. 1.....	36		
<b>Germany, general</b> .....	May 29-Oct. 15.....	21		
Hamburg.....	June 5-11.....	1		
Gibraltar.....	June 20-Oct. 9.....	7	2	
<b>Great Britain:</b>				
Liverpool.....	July 17-Sept. 24.....	3		
London.....	June 19-Aug. 6.....	6		
South Shields.....	May 22-June 4.....	4	1	
West Hartlepool.....	Oct. 2-8.....	1		
<b>Hawaii:</b>				
Hilo.....	Sept. 10.....	1		Case on s. s. Wilhelmina, from San Francisco via Honolulu.
<b>India:</b>				
Bombay.....	May 18-Oct. 2.....		121	
Calcutta.....	July 10-Sept. 17.....		3	
Kurrachee.....	May 15-July 16.....	12	3	
Madras.....	May 14-Sept. 30.....		61	
Rangoon.....	May 8-Aug. 27.....		38	
<b>Indo China:</b>				
Saigon.....	Jan. 1-Sept. 18.....	177	89	
<b>Italy, general</b> .....	May 30-Aug. 7.....	66		
Cosenza.....	Aug. 30-Oct. 8.....	39		
Genoa.....	June 16-30.....	1		

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

Reports Received from June 25 to November 4, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Italy—Continued.</b>				
Naples.....	May 30—Aug. 21...	88	17	June 26—One case from s. s. San Giovanni. One case, July 3, on s. s. Pannonia.
Palermo.....	Sept. 25—Oct. 1.....	1		
Provaglio di Isco.....	Oct. 9—16.....	1		
<b>Japan:</b>				
Formosa.....	May 22—Sept. 25.....		5	
<b>Java:</b>				
Batavia.....	May 22—Aug. 27.....	5		
<b>Korea:</b>				
Fusan.....	May 1—7.....	1		
Seoul.....	May 26—July 2.....	3	4	
Malta.....	May 22—July 30.....	18	2	
<b>Mexico:</b>				
Aguascalientes.....	June 5—Oct. 8.....		40	
Guadalajara.....	June 11—July 2.....		6	
Mexico.....	May 15—Sept. 24.....		37	
San Luis Potosi.....	May 29—Oct. 8.....	13	9	
Veracruz.....	July 3—9.....	1		
<b>Netherlands:</b>				
Rotterdam.....	Sept. 4—17.....		1	
<b>Persia:</b>				
Kerman.....	July 2.....			Present.
Teheran.....	May 1—Oct. 24.....		158	
<b>Philippine Islands</b>				
First quarter, 1910, cases 71; second quarter, 1910, cases 56.				
<b>Portugal:</b>				
Lisbon.....	May 29—Oct. 15.....	857		Jan. 1—Sept. 10 <sup>1</sup> deaths 193.
<b>Russia:</b>				
Lilbau.....	May 30—Oct. 1.....	144	9	
Moscow.....	May 22—Sept. 17.....	180	68	
Odessa.....	May 22—Sept. 10.....	51	12	
Riga.....	May 29—Oct. 8.....	428		Apr. 1—July 31, deaths 144.
St. Petersburg.....	May 8—Oct. 24.....	440	170	
Warsaw.....	Mar. 6—Aug. 27.....		186	
<b>Slam:</b>				
Bangkok.....	Apr. 25—Sept. 10.....	4	4	
<b>Siberia:</b>				
Vladivostok.....	Apr. 22—Aug. 13.....	9	1	
<b>Spain:</b>				
Almeria.....	June 1—Aug. 31.....		3	
Barcelona.....	May 31—Oct. 9.....		19	
Cadiz.....	May 1—31.....		1	
Madrid.....	May 1—Sept. 30.....		14	
Seville.....	May 1—Sept. 30.....		6	
Valencia.....	June 19—July 23.....	6		
Vigo.....	June 12—Oct. 15.....		10	
<b>Straits Settlements:</b>				
Penang.....	May 29—Sept. 3.....	27	5	
Singapore.....	May 8—Sept. 10.....	221	67	
<b>Switzerland:</b>				
Thurgau, Canton.....	July 10—16.....	1		
Zurich, Canton.....	June 19—Oct. 1.....	10		
<b>Tripoli:</b>				
Tripoli.....	June 12—18.....	1		
<b>Turkey:</b>				
Constantinople.....	Aug. 22—28.....		1	
<b>Turkey in Asia:</b>				
Basra.....	June 5—Aug. 13.....			Present.
<b>Uruguay:</b>				
Montevideo.....	Apr. 1—July 31.....	744	316	
San Jose.....	July 7.....			Do.
<b>Zanzibar:</b>				
Zanzibar.....	June 1—Sept. 25.....	150	71	

## MORTALITY.

## WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—																
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.						
Aberdeen.....	Oct. 8	185,703	38																	
Do	Oct. 15		39																	
Aguascalientes	Oct. 22	40,000	51	3																
Aix la Chapelle	Oct. 1	162,355	53																	
Amoy	Sept. 24	400,000	9	1	1	1														
Antwerp	Oct. 8	326,351	68	6																
Do	Oct. 15		73	6																
Athens	Oct. 1	250,010	92	29																
Barcelona	Oct. 16	591,272	275	16																
Batavia	Sept. 24	217,630				5														
Belgrade	Oct. 5	80,000	45			1														
Berlin	Oct. 1	2,126,384	476	67																
Birmingham	Oct. 15	570,113	147																	
Do	Oct. 22		148																	
Bombay	Oct. 4	977,822	526	46	13	3														
Bremen	Oct. 8	242,137	56	12																
Do	Oct. 15	242,489	51	5																
Bristol	Oct. 22	382,550	70	10																
Bordeaux	do	253,000	88	15																
Bradford	Oct. 15	295,865	76	9																
Brussels	do	720,030	174	13																
Cairo	Sept. 30	677,663	422	28																
Do	Oct. 7		377	19																
Calcutta	Sept. 17	847,796	416	31	8	15														
Chemnitz	Oct. 8	287,818	77	4																
Do	do	287,818	77	4																
Christiania	Oct. 15	250,000	57	8																
Chihuahua	Oct. 23	37,000	25	2																
Cologne	Oct. 8	513,630	125	19																
Copenhagen	do	455,000	116	4																
Dresden	Oct. 1	552,200	134	12																
Do	Oct. 8		114	14																
Dublin	Oct. 15	402,928	151	22																
Dundee	do	170,206	58	4																
Do	Oct. 22		50	7																
Durango	Oct. 16	75,000	29																	
Durban	Sept. 24	64,689	21	4																
Edinburgh	Oct. 15	360,276	85	9																
Fort William	Oct. 24	22,000	6																	
Frankfort-on-Main	Oct. 1	409,800	95																	
Georgetown	Oct. 15	56,000	59	8																
Ghent	Oct. 8	165,475	48	3																
Glasgow	Oct. 21	884,520	224																	
Gothenburg	Oct. 15	164,000	30	6																
Hamburg	Oct. 8	895,804	242	24																
Do	Oct. 15		256	18																
Hull	do	280,006	88																	
Do	Oct. 22		73																	
Kingston, Canada	Oct. 29	20,000	9																	
Kingston, Jamaica	Oct. 8	48,504																		
Do	Oct. 15	48,504																		
Kobe	Oct. 9	400,147	189																	
Konigsberg	Oct. 8	244,200	76	8																
Leeds	Oct. 15	490,985	115	8																
Do	Oct. 22		105	12																
Leipzig	Oct. 8	590,329	162	22																
Libau	Oct. 9	90,000																		
Liege	Oct. 15	176,688	36	4																
Liverpool	Oct. 22	767,606	230	17																
London	Oct. 15	7,537,196	1,653																	
Madras	Sept. 30	550,000	458																	
Manaos	Oct. 15	50,000	19	2																
Manchester	do	631,533	190																	
Milan	Oct. 1-15	900,000	64	54																
Moscow	Oct. 8	1,500,000	650	63																
Munich	do	576,000	162	23																
Nantes	Oct. 16	161,908	56	21																
Do	Oct. 23		63	13																
Newcastle on Tyne	Oct. 15	285,891	73	5																
Nottingham	do	263,000	64																	

## MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Ottawa.....	Oct. 22	86,000	39	1								1		
Nueva Laredo.....	Oct. 15	9,000	9	1						3				
Palermo.....	do.	340,000	160	10							3			
Rotterdam.....	do.	424,619	93							1	3	1		
Para.....	do.	185,000	77	3			7							
Paris.....	Oct. 1	2,776,394	777	180						4				
Do.....	Oct. 15		758	160						3	1	1	2	3
Plymouth.....	Oct. 22	124,180	27							1		1		
Prague.....	Oct. 8	233,344	73	15						1	1	1		
Rangoon.....	Sept. 24	252,155	175	11	9	1				1				
Saigon.....	Sept. 25	206,000	6					3						
St. Petersburg.....	Oct. 1	1,620,000	698	107		62				6	12	17	11	7
Salina Cruz.....	Oct. 15	4,500	6					1						
Santa-Cruz-de-Teneriffe.....	do.	46,000	20	3					1			1		
Shanghai.....	Oct. 2	565,000	177	11				2						
Do.....	Oct. 9		166	12				2						
Sheffield.....	Oct. 8	472,000	128	12							2	1		4
Do.....	Oct. 15		134	11						1		1	5	1
Singapore.....	Sept. 17	271,060	233	32				2						
Do.....	Sept. 24		208	25				3						
Southampton.....	Oct. 22	127,157	38	5					1			3	1	
Smyrna.....	Sept. 10	400,000	49	6					1	1	3			
Do.....	Sept. 17		52	4					1	1	1	1		
Do.....	Sept. 24		66	9					2	3	3			
Do.....	Oct. 1		48	8					5	4				
Sydney.....	Oct. 29	16,000	5	1					1					
Stettin.....	Oct. 8	241,000	56	9					3					
Trebizond.....	do.	55,000				47				3				
Trieste.....	do.	223,521	82									1	1	2
Turin.....	Sept. 29	391,988	119	9						3				

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

**BRAZIL—Rio de Janeiro.**—Three weeks ended September 25, 1910. Population, 850,000. Total number of deaths from all causes, 1,119, including typhoid fever 2, measles 48, diphtheria 1, tuberculosis 229.

**BURMA—Rangoon.**—Month of August, 1910. Population, 301,259. Total number of deaths from all causes 718, including typhoid fever 3, cholera 1, plague 62, tuberculosis 25.

**FRANCE—Roubaix.**—Month of September, 1910. Population, 121,115. Total number of deaths from all causes, 157, including tuberculosis 14.

**GREAT BRITAIN.**—Week ended September 17, 1910:

*England and Wales.*—The deaths registered in 77 great towns correspond to an annual rate of 12.6 per 1,000 of the population, which is estimated at 16,940,895.

*Ireland.*—The deaths registered in 21 principal town districts correspond to an annual rate of 17 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Lisburn, viz, 4.5, and the highest at Queenstown, viz, 33, per 1,000.

*Scotland.*—The deaths registered in 8 principal towns correspond to an annual rate of 13 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Leith, viz, 7.8, and the highest at Dundee, viz, 16.2, per 1,000. The total number of deaths from all causes was 473, including typhoid fever 4, scarlet fever 6, diphtheria 10.

Week ended September 24, 1910:

*England and Wales.*—The deaths registered in 77 great towns correspond to an annual rate of 13 per 1,000 of the population, which is estimated at 16,940,895.

*Ireland.*—The deaths registered in 21 principal town districts correspond to an annual rate of 17.5 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Dundalk, viz, 4, and the highest at Waterford, viz, 23.4, per 1,000.

*Scotland.*—The deaths registered in 8 principal towns correspond to an annual rate of 13.6 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Paisley, viz, 9.5, and the highest at Greenock, viz, 23.4, per 1,000. The total number of deaths from all causes was 494, including typhoid fever 3, measles 2, scarlet fever 5, diphtheria 10.

NEW ZEALAND.—Month of July, 1910:

*Auckland.*—Population 97,929. Total number of deaths 61, including scarlet fever 1, diphtheria 1, tuberculosis 5.

*Christchurch.*—Population 63,455. Total number of deaths 6, including diphtheria 2, tuberculosis 4.

*Dunedin.*—Population 62,584. Total number of deaths 59, including tuberculosis 2.

*Wellington.*—Population 76,390. Total number of deaths 60, including diphtheria 1, tuberculosis 3.

SIAM.—*Bangkok.*—Four weeks ended September 10, 1910. Population 600,000. Total number of deaths from all causes not reported. Deaths from contagious diseases include smallpox 1, cholera 95, plague 4.

SPAIN.—*Cadiz.*—Month of September, 1910. Population 69,382. Total number of deaths from all causes 115, including typhoid fever 4, scarlet fever 1, diphtheria 2, tuberculosis 20.

*Huelva.*—Month of September, 1910. Population 24,000. Total number of deaths from all causes 69, including typhoid fever 1, diphtheria 2, tuberculosis 8.

*Madrid.*—Month of September, 1910. Population 613,436. Total number of deaths from all causes 870, including typhoid fever 9, smallpox 6, measles 24, scarlet fever 8, diphtheria 17, tuberculosis 126.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.