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FURTHER OBSERVATIONS ON THE DISPOSAL OF EXCRETA (THIRD PAPER).^a

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Testing the viability of hookworm eggs is quite different in certain respects from testing the viability of typhoid bacilli. In the latter case cultural methods may be utilized to bring into evidence (by multiplication) the germs that remain after a given time; in the case of hookworms, however, the observer is dependent upon microscopic examination (either judgment based upon the appearance of the eggs under the microscope, or the finding, by microscopic examination, of embryos or larvæ which have hatched out, but not multiplied, in cultures). Thus, as time goes on, and as the eggs and larvæ gradually die and become unrecognizable, there remain fewer and fewer objects upon which to base conclusions. The work therefore becomes increasingly more tedious and more difficult from week to week, and in case of negative findings it is, from the nature of things, not absolutely reliable.

The literature on the viability of the typhoid bacillus is so lacking in uniformity as respects results that one may prophesy a similar, or possibly even greater, difference in conclusions as authors study the viability of various zooparasitic infections.

The results presented in the present paper were obtained chiefly at unheated room temperature at the United States Marine Hospital station at Wilmington, N. C., during the summer and early fall of 1910. An accident to some of our cultures prevents us from giving a complete continuation of the observations published in our two earlier papers, but the results permit certain conclusions of a practical nature.

It has been our purpose to determine if possible about what may be expected in respect to the viability of *Necator americanus* under actual conditions as they exist in eastern North Carolina, and on this account no attempt has been made to keep the cultures at a uniform, artificial temperature, or under theoretically ideal conditions. On the contrary, certain experiments have purposely been conducted under irregular conditions, simulating those found in nature, as, for instance, in a cotton-mill village.

^a For previous papers see Public Health Reports, Vol. XXV, No. 27, July 8, 1910, pp. 947-950, and No. 33, August 19, 1910, pp. 1137-1140.

EFFECTS OF DRYING.

It has been an established fact for some time that the eggs and encysted larvæ of hookworms (*Uncinariinæ*) in general are killed by becoming completely dried. Experiments to this effect have been conducted, purposely or accidentally, in several laboratories. The question has arisen in our minds: Given the ordinary surface privy, such as is so general in this locality, how long will the encysted hookworm larvæ live in the sand, subject, as the sand is, to varying conditions? Several of our experiments bear upon this point, but do not as yet settle it definitely.

Culture 8.—A sample of sand from under a surface privy was placed (June 20) in an 8-ounce bottle. It contained live hookworm embryos. It was kept at room temperature and had partially dried on July 3, when water was added. On July 19, motionless larvæ were present; some of them were dead; none was positively recognized as alive. It was allowed to dry out gradually until November 15, when water was added and the culture placed in the incubator. On November 18, 10 slides showed 2 well-preserved, but motionless, encysted larvæ. It can not be asserted whether these were alive or dead. It is, however, striking that apparently perfectly preserved encysted larvæ were found in this sand 151 days after it was collected, although the culture had been (apparently) completely dried out once and partially dried out once. Had these larvæ been dead long, they would not have been so well preserved; in fact, only their skin might have remained. The observation raises the suspicion that the encysted larvæ may possibly live about as long as five months in the privy sand, even when some of the conditions (as occasional drying) are unfavorable. This statement, of course, does not mean that the encysted stage will withstand drying for five months.

Culture 15.—Flyblown fecal material was placed in a bucket and covered with 6½ inches of sterilized sand. As reported in an earlier communication, 15 flies (*Ophyra leucostomá*) issued and came through the sand and (July 16) live encysted larvæ were found on the surface. The sand was well moistened and allowed to stand at unheated room temperature until November 12, when it was dry; water was then added. Numerous microscopic examinations (November 13, 14, 16) at different depths failed to show any signs of hookworms.

Thus from July 16 to November 13 (120 days) all trace of hookworm infection was lost. As stated in the introductory paragraph, however, negative findings in this line of work are not to be relied upon implicitly.

Culture 9.—A large sample of fecal material containing eggs of *Ascaris lumbricoides* and *Necator americanus* was placed (June 20) in a jar with sterilized sand; encysted hookworm larvæ were observed June 26. From July 20 to November 14 no water was added to No. 9, in which active hookworm larvæ were plentiful on July 3.

On November 14 No. 9 was entirely dry, and water was added. Microscopic examination on November 18 showed undetermined live nematodes (not *Necator* or *Ascaris*), but no trace of hookworms was found.

Subculture 9a.—On June 26 a sample of No. 9 was transferred to fresh sterilized sand. July 3 many active hookworm larvæ were present; July 16 *Ascaris* embryos were observed in the egg and hook-

worm larvæ were alive. On November 12 and 15 *Ascaris* embryos (alive?) were found, but there was no trace of hookworms. Thus, after 145 (148) days from the time of the original culture (June 20) hookworm infection could not be traced. It is not positively excluded that this culture became somewhat dry at one time in September.

Subculture 9b.—July 3 a sample of No. 9 was transferred to fresh sterilized sand. On July 16 live hookworm larvæ were present. The culture was kept at unheated room temperature until November 12, when it was incubated. On November 12, 15, and 17 microscopic examination failed to show live hookworm infection, but dead hookworm larvæ were found; live *Ascaris* embryos were present in the eggs on November 17. It is not positively excluded that this culture became rather dry at one time in September. Thus, 150 days (November 17) after the original culture (No. 9, June 20) the active *Ascaris* infection had not died out, but no trace of live hookworm infection remained, although dead hookworm skins were visible.

Culture 4.—Fecal material containing eggs of *Ascaris* and of *Necator* was placed (June 18) in a bucket of water, to which a film of kerosene was added. As stated in an earlier communication, live hookworm eggs were present 33 days later.

Subculture 4b.—A sample of No. 4 was transferred (June 23) to sterilized sand, in which live hookworm larvæ were observed July 3 and 16. The culture was kept at unheated room temperature until November 12, and was placed in the incubator November 16. It is possible that this culture became rather dry in September. Repeated examinations (November 12 to 18) failed to reveal any live hookworm infection, although a few dead larval skins were found November 18; one *Ascaris* egg contained a live motile embryo November 17.

Thus (4b) in moist, sterilized sand (which may possibly have become rather dry on one occasion) kept at unheated room temperature from June 23 to November 12 (18), namely, 142 (148) days, live *Ascaris* infection was present, but no live hookworm infection could be found.

Subculture 4f.—On July 20, of 12 hookworm eggs taken from No. 4, 11 were considered dead, 1 doubtful. A portion of No. 4 was transferred (July 20) to sterilized sand (4f), which was kept at unheated room temperature until November 12, then incubated. It is possible that this became rather dry once in September. Repeated examinations November 12, 15, and 19 revealed only one hookworm egg (November 15) which was dead.

Thus 117 days after 4f was prepared a hookworm egg was recognized, but no live infection was found.

Culture 5.—Fecal material containing live *Ascaris* eggs and live *Necator* eggs was placed (June 18) in a jar of water, to which a film of kerosene was added. Live and undeveloped eggs of *Ascaris* and *Necator* were observed on July 16; some of the hookworm eggs were dead on that date. The jar was allowed to dry out. On November 12 it was completely dry. On November 14, 20, and 21, 15 preparations showed numerous *Ascaris* eggs, some of which contained embryos; most of the eggs were dead, but in several instances this point could not be decided; in at least three instances (November 21) the eggs appeared to be perfectly normal and alive. Thus the *Ascaris* infection had not entirely died out in 156 days, although the material had been quite dry.

No sign of hookworm infection could be distinguished.

EFFECTS OF DECOMPOSITION.

Personally we incline more and more to the utilization of decomposition and fermentation as a method of destroying hookworm infection in fecal material, and on this account we are following the eggs kept in water for various periods of time. Fecal material is collected from privies at various intervals, placed in buckets of water, and allowed to stand at unheated room temperature. In former communications it has been shown that dead eggs may be found after 4 days, but that live eggs may be found after 33 days. We have now found live hookworm eggs as late as 70 days.

Culture 33.—Fecal material was placed (September 7) in a bucket of water and allowed to stand at unheated room temperature until November 12. Microscopic examinations on November 12, 13, 16, and 17 showed a large number of dead hookworm eggs, but 2 were found which were probably alive and 2 were found (November 16) which were undoubtedly alive. A *Hymenolepis nana* egg was probably dead.

Subculture 33a.—A portion of No. 33 was transferred (November 13) to sterilized sand and incubated until November 21. Examinations made November 20 and 21 showed 31 hookworm eggs, of which 30 were surely dead, 1 probably dead. A *Hymenolepis nana* egg may have been dead, but this is uncertain. One *Ascaris* egg was dead; 2 were doubtful.

From these observations it must be concluded that while the mass of hookworm eggs will die when the feces are subjected for 70 days to decomposition in water, some few may still be found alive.

Culture 32.—Fecal material was placed (August 13) in a bucket of water and allowed to stand at unheated room temperature until November 12. On November 13, 20 slides showed 4 dead hookworm eggs. Thus, so far as the examination determined, the hookworm infection had died out in 68 days. In view of the observations recorded for No. 33 the results obtained in No. 32 must be considered as of secondary value.

Culture 27.—Fecal material containing eggs of *Ascaris* and of *Necator* was placed (July 20) in a bucket of water to which a film of kerosene was added (July 21). No water was added later. This culture was kept at unheated room temperature until November 12. The water had evaporated until the material was soft-mushy in character. In 13 preparations (November 14) 20 hookworm eggs and 34 *Ascaris* eggs were found; all of the former and 29 of the latter were dead; 5 *Ascaris* eggs may possibly have been alive.

Subculture 27a.—A portion of No. 27 was transferred (November 14) to sterilized sand and incubated. Six preparations (November 18) showed 27 hookworm eggs, all of which were dead, and 27 *Ascaris* eggs, 20 of which were dead, 7 probably dead.

Thus, after 117 (121) days all of the hookworm infection and at least 80 per cent of the *Ascaris* infection appear to have died.

Culture 17.—Fecal material containing eggs of *Ascaris* and *Necator* was placed (June 22) in a bucket of water and allowed to stand in the open until November 12, when 15 preparations showed 25 hookworm eggs and 5 *Ascaris* eggs, all of which were dead. One of the hookworm eggs contained a well-developed embryo, but this is the

only instance we have found in any of our observations in which a hookworm egg developed so far in water.

Subculture 17a.—A portion of No. 17 was transferred (November 13) to sterilized sand and incubated. Microscopic examination (November 18) showed no embryonic development, but in 5 preparations 5 dead hookworm eggs were found.

Thus in 144 (149) days after the original culture all hookworm eggs found were dead.

CHLORIDE OF LIME.

To test the effect of chloride of lime upon hookworm eggs fecal material was mixed in water in buckets, each containing about 10½ quarts (about 10,000 cc.), and 1, 5, and 10 even tablespoonsful of chloride of lime were added (Nos. 39, 41, 42).

Experiment 42.—After 22 hours, the egg in bucket 42, with 10 tablespoonsful of chloride of lime, appeared perfectly normal. Some of the fluid was placed (4 p. m., November 18) in the incubator, and when examined (11 a. m., November 20) contained free, live embryos. Live embryos were also present at noon, November 21.

Experiment 39.—On account of the appearance of the eggs in No. 42 after 22 hours there was added, at 6 p. m., November 18, to No. 39 (which had only one tablespoonful of chloride of lime) half a can (approximately quarter of pound) of the disinfectant. At 5 p. m. November 19, at 10 a. m. November 20, and at noon November 22 the eggs appeared perfectly normal.

Subexperiment 39a.—At 5 p. m. November 19 (after 23 hours action of the strengthened disinfectant) some of the fluid was placed in the incubator, and at 10 a. m. November 20, live free embryos were present. At noon November 21, 5 embryos observed were dead.

Subexperiment 39b.—At 10 a. m. November 20 (after 40 hours action of the strengthened disinfectant) some of the fluid of No. 39 was placed in the incubator, and when examined at 4 p. m. November 22, free live embryos were found.

Subexperiment 39c.—At noon November 22 (after 90 hours of action of the strengthened disinfectant) some of the fluid from No. 39 was placed in the incubator; the hookworm eggs appeared to be normal. Report on incubation will appear later.

FLIES.

In a former communication we reported that if fly-blown fecal material is buried under 6½ inches of sterilized sand, flies (*Ophyra leucostoma*) will crawl to the surface and issue.

Experiment 21.—Fly-blown fecal material was buried (July 20) in a large screened glass jar under 17 inches of sterilized sand. On August 4 three adult flies issued at the surface. These were determined by Mr. Coquillett as *Sarcophaga* sp.

The two following experiments are reported with a certain amount of academic reserve, as the supply of sterilized sand was exhausted at the moment that the material was available. The experiments are being repeated.

Experiment 29.—Fly-blown fecal material was buried (July 21) in a screened standpipe under 48 inches of clean (unsterilized) sand.

Within less than 24 hours some insects came to the surface, but they were not disturbed. Within 10 days adult flies began to issue at the surface, and continued to appear until 37 were collected (August 4). They have been determined by Mr. Coquillett as the common house fly (*Musca domestica*).

Experiment 30.—Fly-blown fecal material was buried (August 3) in a screened standpipe under 72 inches of clean (unsterilized) sand. On August 24 an adult fly appeared at the surface, and flies continued to issue until 4 appeared. They were left in the jar awaiting the issuance of other insects, and when collected finally were unfortunately too broken to permit proper identification beyond the fact that they were flies.

SUMMARY.

The foregoing observations indicate that—

- (1) It is not safe, at present, to assume that the sand under and around a privy is entirely free from hookworm infection about 5 months (151 days) after the privy was last used.
- (2) After about 4 months (120 days), however, the infection may be very greatly reduced, and possibly in some instances entirely dead.
- (3) After about 5 months (150 days) in sand, live *Ascaris* embryos in the eggs may be found, even when all the hookworm larvæ observed are dead. *Ascaris* eggs, apparently alive and normal, were found after 156 days.
- (4) Hookworm eggs may be identified in sand cultures 117 days old.
- (5) When fecal material is subjected to decomposition in water for 70 days (namely, about 2½ months), the mass of hookworm eggs die, but a few can survive.
- (6) No hookworm egg has as yet been found alive in feces subjected to decomposition for 117 to 149 days, namely, about 4 to 5 months.
- (7) It seems very probable, from present data, that under conditions under which our observations have been conducted, if fecal material containing hookworm eggs is subjected to decomposition in water for about 3 months, all hookworm infection will be dead. If this probability is confirmed by further observations, then viewed from the standpoint of hookworm infection alone, the effluent from the L. R. S. sanitary privy described in Public Health Reports, 1910, pages 1619–1623, should be stored 3 months before being used as fertilizer.
- (8) In feces allowed to decompose in water, *Ascaris* eggs resist the decomposition better than do the hookworm ova. At the end of about 4 months (117 to 121 days), however, at least 80 per cent of the *Ascaris* eggs appear to be dead.
- (9) The action of chloride of lime in the strength of approximately one-fourth pound to 10½ quarts of water for 22 to 40 hours does not kill hookworm eggs.
- (10) If fly-blown fecal material is buried under 17 inches of sterilized sand, flies (*Ophrya leucostoma*) will crawl through the sand and complete their development.
- (11) When fly-blown fecal material was buried under 48 inches of clean (unsterilized) sand, flies (*Musca domestica*) issued from the surface.
- (12) When fly-blown fecal material was buried under 72 inches of clean (unsterilized) sand, flies (genus and species undetermined) issued from the surface.

UNITED STATES.

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

PLAGUE-PREVENTION WORK.

INFECTED GROUND SQUIRRELS.

During the week ended November 26 the finding of 2 plague-infected squirrels was reported. One squirrel was found November 15 in San Joaquin County, at Hughes ranch, 1 mile southwest of Ripon, and 1 on November 22 in Alameda County, at D. J. Stewart ranch, 8 miles north of Hayward.

DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities in California on San Francisco Bay, 1,125 acres of land in Contra Costa County were covered with poison during the week ended November 26, 1910.

Record of Plague Infection.

Place.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number of rodents found infected since May, 1907.
California:				
Cities—				
San Francisco.....	Jan. 30, 1908.....	Oct. 23, 1908.....	None.....	398 rats.
Oakland.....	Oct. 26, 1909.....	Dec. 1, 1908.....	do.....	126 rats.
Berkeley.....	Aug. 28, 1907.....	None recorded.....	do.....	None.
Los Angeles.....	Aug. 11, 1908.....	None.....	Aug. 21, 1908.....	1 squirrel.
Counties—				
Alameda (exclusive of the city of Oakland).	Sept. 26, 1909.....	{ Wood rat, Oct. 17, 1909.	{ Nov. 22, 1910.....	{ 84 squirrels. 1 wood rat.
Contra Costa.....	July 21, 1908.....	None.....	Sept. 10, 1910.....	247 squirrels.
Merced.....	None recorded.....	do.....	June 6, 1910.....	2 squirrels.
Monterey.....	do.....	do.....	do.....	4 squirrels.
San Benito.....	June 5, 1910.....	do.....	July 11, 1910.....	20 squirrels.
San Joaquin.....	None recorded.....	do.....	Nov. 15, 1910.....	9 squirrels.
San Luis Obispo.....	do.....	do.....	Jan. 29, 1910.....	1 squirrel.
Santa Clara.....	Aug. 23, 1910.....	do.....	Oct. 5, 1910.....	23 squirrels.
Santa Cruz.....	None recorded.....	do.....	May 17, 1910.....	3 squirrels.
Stanislaus.....	do.....	do.....	May 21, 1910.....	5 squirrels.
Washington:				
Seattle.....	Oct. 30, 1907.....	Feb. 8, 1910.....	None.....	22 rats.

Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
California:					
Cities—					
Berkeley.....	Nov. 26.....	.....	a 75	75	.....
Oakland.....	do.....	30	b 601	466	.....
San Francisco.....	do.....	55	c 1,736	1,279	.....
County—					
Los Angeles.....	do.....	.....	d 2	2	.....
Total.....	.....	85	2,414	1,722	.....

a Identified, *Mus norvegicus* 59, *Mus musculus* 16.

b Identified, *Mus norvegicus* 501, *Mus rattus* 2, *Mus musculus* 97.

c Identified, *Mus norvegicus* 1,204, *Mus rattus* 88, *Mus musculus* 329, *Mus alexandrinus* 115.

d Identified, *Mus norvegicus* 2.

Squirrels Collected and Examined for Plague Infection.

Place.	Week ended—	Trapped and shot.	Found dead.	Examined.	Found infected.
California:					
Alameda.....	Nov. 26	104		104	1
Calaveras.....	do.	43		43	
Contra Costa.....	do.	49	5	54	
Fresno.....	do.	50		50	
Los Angeles.....	do.	177		159	
Madera.....	do.	19		19	
Mariposa.....	do.	45		45	
Merced.....	do.	74		74	
Monterey.....	do.	235	1	231	
Napa.....	do.	106		106	
Sacramento.....	do.	45		45	
San Joaquin.....	do.	173		173	1
San Luis Obispo.....	do.	206		201	
San Mateo.....	do.	27		27	
Santa Clara.....	do.	96		96	
Tuolumne.....	do.	37		37	
Total.....		1,486	6	1,464	2

Other Animals Collected and Examined.

Place.	Week ended—	Animals collected.	Examined.	Found infected.
California:				
Cities—				
San Francisco.....	Nov. 26	3 gophers.....	3	
Counties—				
Kern.....	do.	3 chipmunks.....	3	
Monterey.....	do.	1 coyote.....	1	
Total.....			7	

CHOLERA REPORTED ON THE STEAMSHIP "SAN GIORGIO," ARRIVING AT NEW YORK IN NOVEMBER.

The steamship *San Giorgio* arrived at New York on November 17 from Naples and Palermo, having departed from the former place on November 1 and from Palermo on the following day.

On the 7th day of November a woman named Guiseppe di Leo was taken ill, presumably with seasickness, and was placed in the hospital with two children. On November 11 one of the children sickened with gastro enteritis and died within 24 hours. The mother was attacked on the following day, the 12th, and died on November 16 with the same symptoms. Both bodies were buried at sea, but the remaining child was removed to the quarantine station at New York, where as a result of a bacteriological examination the patient was found to be suffering from cholera.

The family embarked at Palermo, having resided at Burgio, a town near Palermo, at which place cholera was not supposed to exist. Upon the arrival of the family at Palermo and prior to their embarkation from that port they were isolated for 5 days, and subjected to the usual quarantine restrictions, such as the disinfection of baggage and the destruction of foodstuffs carried.

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.

Report Received During Week ended December 16, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Colorado:				
Archuleta County.....	Nov. 1-30.....	1		
Boulder County.....	Nov. 1-30.....	4		
Conejos County.....	Nov. 1-30.....	2		
Denver County.....	Nov. 1-30.....	23		
Fremont County.....	Nov. 1-30.....	3		
Grand County.....	Nov. 1-30.....	1		
Huerfano County.....	Nov. 1-30.....	8		
Jefferson County.....	Nov. 1-30.....	1		
La Plata County.....	Nov. 1-30.....	7		
Larimer County.....	Nov. 1-30.....	1		
Las Animas County.....	Nov. 1-30.....	47		
Montezuma County.....	Nov. 1-30.....	2		
Montrose County.....	Nov. 1-30.....	1		
Pueblo County.....	Nov. 1-30.....	2		
Rio Grande County.....	Nov. 1-30.....	2		
Weid County.....	Nov. 1-30.....	6		
Iowa:				
Linn County.....	Nov. 1-30.....	9		
Page County.....	Nov. 1-30.....	41		
*Louisiana:				
New Orleans.....	Nov. 27-Dec. 3.....	5		
Maryland, entire State.....	Nov. 1-30.....			No cases reported.
Minnesota:				
Clay County.....	Nov. 21-27.....	1		
Douglas County.....	Nov. 1-20.....	3		
Hennepin County.....	Nov. 14-20.....	3		
Kittson County.....	Nov. 1-6.....	1		
Mower County.....	Nov. 14-20.....	1		
Ottertail County.....	Nov. 20-27.....	3		
Ramsey County.....	Nov. 14-27.....	10		
Todd County.....	Nov. 14-27.....	4		
*Mississippi:				
Gulfport.....	Nov. 24-30.....	2	1	
Montana:				
Silver Bow County, exclusive of Butte.....	Oct. 1-31.....	2		
Butte.....	Oct. 1-31.....	16		
North Dakota:				
Cass County.....	Nov. 1-30.....	5		
Ward County.....	Nov. 1-30.....	4		
Oklahoma:				
Atoka County.....	Apr. 1-30.....	30		
Beckham County.....	Apr. 1-30.....	10		
Blaine County.....	Apr. 1-30.....	1		
Bryan County.....	Apr. 1-30.....	10		
Canadian County.....	Apr. 1-30.....	14		One death previously reported on page 1049.
Choctaw County.....	Apr. 1-30.....	2		
Comanche County.....	Apr. 1-30.....	20		Three deaths previously reported on page 1049.
Custer County.....	Apr. 1-30.....	18		
Delaware County.....	Apr. 1-30.....	1		
Garfield County.....	Apr. 1-30.....	1		
Grady County.....	Apr. 1-30.....	8		One death previously reported on page 1049.
Greer County.....	Apr. 1-30.....	8		
Harmon County.....	Apr. 1-30.....	14		
Haskell County.....	Apr. 1-30.....	3		
Hughes County.....	Apr. 1-30.....	21		
Jefferson County.....	Apr. 1-30.....	2		
Johnston County.....	Apr. 1-30.....	4		
Kay County.....	Apr. 1-30.....	5		
Kiowa County.....	Apr. 1-30.....	1		
Lincoln County.....	Apr. 1-30.....	1		
McClain County.....	Apr. 1-30.....	14		
McIntosh County.....	Apr. 1-30.....	4		

SMALLPOX IN THE UNITED STATES—Continued.

Report Received During Week ended December 16, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma—Continued.				
Muskogee County.....	Apr. 1-30.....	5		Four deaths previously reported on page 1049.
Noble County.....	Apr. 1-30.....	3		
Oklahoma County.....	Apr. 1-30.....	9		
Okmulgee County.....	Apr. 1-30.....	3		Two deaths previously reported on page 1049.
Pawnee County.....	Apr. 1-30.....	1		
Payne County.....	Apr. 1-30.....	10		
Pittsburg County.....	Apr. 1-30.....	16		
Pontotoc County.....	Apr. 1-30.....	140		
Pottawatomie County.....	Apr. 1-30.....	16		
Seminole County.....	Apr. 1-30.....	16		
Stephens County.....	Apr. 1-30.....	25		
Texas County.....	Apr. 1-30.....	28		
Tulsa County.....	Apr. 1-30.....	5		
Wagoner County.....	Apr. 1-30.....	1		
Washington County.....	Apr. 1-30.....	4		
Washita County.....	Apr. 1-30.....	1		
Alfalfa County.....	June 1-30.....	1		
Atoka County.....	June 1-30.....	10		
Canadian County.....	June 1-30.....	19	2	
Cherokee County.....	June 1-30.....	6		
Choctaw County.....	June 1-30.....	1		
Coal County.....	June 1-30.....	4		
Custer County.....	June 1-30.....	7		
Dewey County.....	June 1-30.....	10		
Garfield County.....	June 1-30.....	2		
Grady County.....	June 1-30.....	8	4	
Harmon County.....	June 1-30.....	48		
Hughes County.....	June 1-30.....	36		
Kay County.....	June 1-30.....	12		
McClain County.....	June 1-30.....	6		
McIntosh County.....	June 1-30.....	7		
Murray County.....	June 1-30.....	1		
Muskogee County.....	June 1-30.....	2		
Noble County.....	June 1-30.....	3	1	
Nowata County.....	June 1-30.....	4		
Pittsburg County.....	June 1-30.....	33		
Pontotoc County.....	June 1-30.....	17		
Pushmataha County.....	June 1-30.....	2		
Rogers County.....	June 1-30.....	1		
Tulsa County.....	June 1-30.....	26		
Washington County.....	June 1-30.....	1		
Atoka County.....	July 1-31.....	6		
Caddo County.....	July 1-31.....	2		
Canadian County.....	July 1-31.....	2		
Cherokee County.....	July 1-31.....	7		
Coal County.....	July 1-31.....	3		
Custer County.....	July 1-31.....	2		
Grady County.....	July 1-31.....	3	5	
Harmon County.....	July 1-31.....	2		
Hughes County.....	July 1-31.....	8		
Jackson County.....	July 1-31.....	2		
Kay County.....	July 1-31.....	1		
Le Flore County.....	July 1-31.....	2		
McClain County.....	July 1-31.....	1		
Murray County.....	July 1-31.....	1		
Noble County.....	July 1-31.....	1	1	
Nowata County.....	July 1-31.....	2		
Oklahoma County.....	July 1-31.....	10	1	
Okmulgee County.....	July 1-31.....	1		
Payne County.....	July 1-31.....	5		
Pittsburg County.....	July 1-31.....	7		
Wagoner County.....	July 1-31.....	1	1	
Bryan County.....	Sept. 1-30.....	10		
Caddo County.....	Sept. 1-30.....	3		
Cleveland County.....	Sept. 1-30.....	1		
Coal County.....	Sept. 1-30.....	1		
Grady County.....	Sept. 1-30.....	8		
Jefferson County.....	Sept. 1-30.....	1	1	
Kay County.....	Sept. 1-30.....	1		
McIntosh County.....	Sept. 1-30.....	21	1	
Marshall County.....	Sept. 1-30.....	1		
Okfuskee County.....	Sept. 1-30.....	4		
Pushmataha County.....	Sept. 1-30.....	7		
Tillman County.....	Sept. 1-30.....	4		
Tulsa County.....	Sept. 1-30.....	2		
Woodward County.....	Sept. 1-30.....	1		
Bryan County.....	Oct. 1-31.....	6		

SMALLPOX IN THE UNITED STATES—Continued.

Report Received During Week ended December 16, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma—Continued.				
Cleveland County.....	Oct. 1-31.....	4	.....
Garfield County.....	Oct. 1-31.....	1	.....
Grady County.....	Oct. 1-31.....	2	2	
Jackson County.....	Oct. 1-31.....	1	.....
Kay County.....	Oct. 1-31.....	1	.....
McIntosh County.....	Oct. 1-31.....	22	1	
Marshall County.....	Oct. 1-31.....	7	.....
Oklahoma County.....	Oct. 1-31.....	1	.....
Texas County.....	Oct. 1-31.....	1	.....
Washington:				
Pierce County—				
Tacoma.....	Oct. 1-31.....	3	.....
Skagit County.....	Oct. 1-31.....	2	.....

Reports Received from June 25 to December 9, 1910.

[For reports received from Jan. 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.
*Alabama:				
Birmingham.....	June 12-Aug. 6....	11	
Mobile.....	June 12-Nov. 26...	29	
Montgomery.....	June 12-Nov. 19...	10	
Total for State.....		50	
*Arizona:				
Flagstaff.....	Oct. 23-29.....	1	
Total for State.....		1	
*Arkansas:				
Fort Smith.....	June 19-25.....	1	
California, general.....				
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	
Colorado:				
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-Oct. 31....	25	.....
Boulder County.....	Oct. 1-31.....	1	.....
Chaffee County.....	July 1-Aug. 31....	3	.....
Clear Creek County.....	Aug. 1-31.....	1	.....
Conejos County.....	June 1-Oct. 31....	6	.....
Delta County.....	June 1-30.....	2	.....
Denver County.....	June 1-Oct. 31....	92	.....
El Paso County.....	July 1-Aug. 31....	3	.....
Fremont County.....	Oct. 1-31.....	1	.....
Garfield County.....	Oct. 1-31.....	1	.....
Huerfano County.....	June 1-Oct. 31....	24	.....
Kit Carson County.....	June 1-30.....	4	.....
Larimer County.....	June 1-30.....	1	.....
Las Animas County.....	June 1-Oct. 31....	8	.....
La Plata County.....	Oct. 1-31.....	4	.....
Logan County.....	June 1-30.....	1	.....
Mesa County.....	June 1-Oct. 31....	2	.....
Montezuma County.....	Sept. 1-Oct. 31....	3	.....
Montrose County.....	June 1-30.....	5	.....
Otero County.....	June 1-Sept. 30....	5	.....
Prowers County.....	June 1-Sept. 30....	17	.....

SMALLPOX IN THE UNITED STATES—Continued.

Report Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Colorado—Continued.				
Fueblo County.....	July 1-31.....	1		
Rio Grande County.....	June 1-30.....	4		
Saguache County.....	June 1-July 31.....	20		
San Miguel County.....	June 1-30.....	1	1	
Teller County.....	June 1-Oct. 31.....	12		
Weld County.....	June 1-30.....	5		
Total for State.....		255	6	
Connecticut.....	Jan. 1-31.....			No cases.
District of Columbia.....	July 3-Sept. 17.....	15		
Total for District.....		15		
Florida:				
Brevard County.....	Aug. 7-13.....	1		
Dade County.....	Nov. 6-25.....	2		
Duval County.....	June 19-Nov. 19.....	4		
Escambia County.....	Nov. 6-25.....	8		
Gadsden County.....	July 3-Nov. 19.....	18		
Hillsboro County.....	July 17-Nov. 12.....	6		
Jackson County.....	June 19-Nov. 25.....	5		
Jefferson County.....	July 10-Aug. 6.....	4		
Leon County.....	Mar. 1-Nov. 25.....	19	1	
Liberty County.....	July 17-23.....	14		
Osceola County.....	Oct. 23-Nov. 25.....	45		
Polk County.....	Nov. 13-25.....	7		
Santa Rosa County.....	July 31-Aug. 6.....	2		
Taylor County.....	July 3-9.....	1		
Walton County.....	June 12-18.....	1		
Washington County.....	Nov. 19-25.....	3		
Total for State.....		140	1	
*Georgia:				
Columbus.....	July 3-9.....	6		
Macon.....	Apr. 1-June 30.....	8		
Total for State.....		14		
Illinois:				
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.....	3		
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		
Indiana, general.....				
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		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana—Continued.				
Gibson County.....	May 1-31.....	1		
Grant County.....	May 1-June 30.....	13		
Greene County.....	May 1-31.....	9		
Howard County.....	May 1-June 31.....	21		
Lake County.....	June 1-30.....	1		
Madison County.....	June 1-30.....	6		
Marion County.....	May 1-Sept. 30.....	7		
Marshall County.....	June 1-30.....	1		
Martin County.....	June 1-30.....	4		
Miami County.....	June 1-30.....	6		
Montgomery County.....	June 1-30.....	6		
Orange County.....	May 1-31.....	18		
Owen County.....	May 1-June 30.....	23		
Putnam County.....	June 1-30.....	1		
St. Joseph County.....	May 1-June 30.....	10		
Tipton County.....	May 1-31.....	1		
Vigo County.....	May 1-June 30.....	28		
Warren County.....	June 1-30.....	1		
Wayne County.....	June 1-30.....	6		
Total for State.....		187		
Iowa:				
Benton County.....	June 1-July 31.....	4		
Buchanan County.....	June 1-30.....	2		
Cass County.....	Oct. 1-31.....	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		
Linn County.....	June 1-Oct. 31.....	46		
Plymouth County.....	Aug. 1-Oct. 31.....	3		
Polk County.....	June 1-Oct. 31.....	24		
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.....		137		
Kansas:				
Allen County.....	May 1-Sept. 30.....	42		
Atchison County— Atchison.....	Apr. 1-May 31.....	7		
Barton County.....	June 1-Sept. 30.....	9		
Butler County.....	Apr. 1-June 30.....	8		
Cherokee County.....	June 1-30.....	4		
Clay County.....	July 1-Sept. 30.....	3		
Coffey County.....	July 1-31.....	1		
Cowley County.....	Apr. 1-July 31.....	12		
Crawford County..... Pittsburg.....	June 1-30.....	4	1	
Decatur County.....	Aug. 1-Sept. 30.....	2		
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..... Leavenworth.....	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		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Miami County.....	Apr. 1—May 31.....	2	.....
Marshall County.....	Aug. 1—Sept. 30.....	3	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	.....
Sedgewick 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—Sept. 30.....	5	.....
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.....		773	8	
*Kentucky:				
Covington.....	June 26—July 2.....	1	.....
Total for State.....		1	.....
*Louisiana:				
Avoynes 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	.....
Iberia Parish.....	June 1—30.....	19	.....
Orleans Parish.....	June 1—30.....	.....	.....
New Orleans.....	June 12—Nov. 18.....	124	1	
St. John the Baptist Parish.....	June 1—30.....	10	.....
St. Tammany Parish.....	June 1—30.....	2	.....
Tangipahoa Parish.....	June 1—30.....	25	.....
Vermillion Parish.....	June 1—30.....	30	.....
Total for State.....		224	1	
Maine:				
Biddeford.....	June 1—Oct. 31.....	.....	.....	No cases.
Mapleton.....	May 1—31.....	1	.....
Mapleton.....	Nov. 12.....	1	.....
Total for State.....		2	.....
Maryland:				
Allegany County—				
Cumberland.....	May 1—July 31.....	2	.....
Total for State.....		2	.....
Massachusetts:				
Middlesex County.....	Aug. 1—Oct. 31.....	.....	.....	Do.
Middlesex County.....	July 1—31.....	1	.....
Suffolk County.....	June 1—July 31.....	8	.....
Total for State.....		9	.....
Michigan:				
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—Oct. 31.....	11	2	
Benzie County.....	Sept. 1—Oct. 31.....	3	.....

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Berrien County.....	July 1-Aug. 31.....	2		
Charlevoix County.....	Oct. 1-31.....	4		
Cheboygan County.....	June 1-Oct. 31.....	35		
Clare County.....	June 1-July 31.....	12		
Crawford County.....	Oct. 1-31.....	7		Estimated 12 to 15 cases.
Emmet County.....	Aug. 1-Sept. 30.....	7		
Eaton County.....	June 1-30.....	7		
Genesee County.....	June 1-Oct. 31.....	59		
Grand Traverse County.....	July 1-Aug. 31.....	6		
Gratiot County.....	June 1-Oct. 31.....	13		
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-Oct. 31.....	5		
Kalamazoo County.....	June 1-July 31.....	8		
Kent County.....	June 1-30.....	17		
Keweenaw County.....	July 1-31.....	1		
Lake County.....	Oct. 1-31.....	1		
Lapeer County.....	June 1-Oct. 31.....	18	1	
Livingston County.....	June 1-Oct. 31.....	18		
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-Oct. 31.....	17		
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, exclusive of Saginaw.....	June 1-Oct. 31.....	47		
Saginaw.....	Oct. 1-31.....	70	19	
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-Oct. 31.....	20		
Total for State.....		661	23	
Minnesota, general.....				
Pope County.....	Nov. 1-30.....		1	} Received out of date.
Rice County.....	Apr. 1-30.....		1	
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-Oct. 23.....	71		
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-Oct. 23.....	7		
Nicollet County.....	Aug. 12-18.....	1		
Ramsey County.....	June 13-Oct. 23.....	40		
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		
Todd County.....	Oct. 24-30.....	1		
Wabasha County.....	June 13-26.....	2		
Washington County.....	Sept. 11.....	1		
Watsonwan County.....	Sept. 5-11.....	1		
Wright County.....	July 4-Oct. 23.....	3		
Total for State.....		198	4	
*Mississippi:				
Marshall County.....	Sept. 25-Oct. 1.....	1		
Natchez.....	July 24-30.....	5		
Yazoo City.....	Sept. 25-Oct. 1.....	1		
Total for State.....		7		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
*Missouri:				
Andrew County.....	June 26-Oct. 8.....	11		
Kansas City.....	May 15-Oct. 31.....	47		
St. Louis.....	June 12-Nov. 26.....	11		
Total for State.....		69		
Montana:				
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	
*Nebraska:				
Lincoln.....	Apr. 1-July 31.....	31		
South Omaha.....	June 1-30.....	3		
Total for State.....		34		
New Hampshire.....	Mar. 1-Oct. 31.....			No cases.
New Jersey:				
Cumberland County.....	June 1-Aug. 31.....	7		
Total for State.....		7		
New York, general.....				
June 1-Sept. 30.....		63	3	
Erie County—				
Buffalo.....	May 1-31.....	1		
Tonawanda Township.....	May 1-31.....	2		
Niagara County—				
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.....		89	3	
North Carolina:				
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-Oct. 31.....	9		
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-Oct. 31.....	39		
Craven County.....	Mar. 1-31.....	1		
Cumberland County.....	Sept. 1-Oct. 31.....	4		
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-Oct. 31.....	41		
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		
Guilford County.....	Mar. 1-Aug. 31.....	69		
Halifax County.....	Mar. 1-31.....	40		
Haywood County.....	July 1-Aug. 31.....	10		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Henderson County	May 1-June 30	6		
Hertford County	Mar. 1-31	1		Several cases in May.
Iredell County	June 1-July 31	26		Several cases in March.
Johnson County	Apr. 1-May 31	4		
Jones County	Mar. 1-31	1		
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-Oct. 31	8		
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-Oct. 31	67		
Onslow County	Mar. 1-May 31	5		
Orange County	Mar. 1-Oct. 31	52		
Pamlico County	Mar. 1-Aug. 31	6		
Pender County	Aug. 1-Sept. 30	8		
Perquimans County	May 1-Oct. 31	8		
Person County	May 1-July 31	7		
Pitt County	Mar. 1-Oct. 31	136		
Polk County	Mar. 1-31	7		
Richmond County	Apr. 1-30	2		
Robeson County	Apr. 1-Oct. 31	53		
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-Oct. 31	8		
Stanly County	Apr. 1-July 31	35		
Stokes County	Mar. 1-31	64		
Surry County	Mar. 1-31	4		
Union County	Mar. 1-Oct. 31	42		
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		Few cases in June
Wilkes County	Mar. 1-July 31	39		
Wilson County	Mar. 1-June 30	25	1	
Yancey County	Mar. 1-31	26		
Total for State		1,665	7	
North Dakota:				
Bottineau County	Oct. 1-31	2	1	
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		
Nelson County	Oct. 1-31	1		
Pierce County	June 1-30	1		
Stark County	July 1-31	1		
Steele County	Sept. 1-30	1		
Stutsman County	Aug. 1-31	1		
Traill County	June 1-30	6		
Ward County	June 1-30	4		
Total for State		69	1	
Ohio:				
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	1	
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		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Ohio—Continued.				
Madison County.....	Oct. 1-31.....	7		
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-Oct. 31.....	4		
Scioto County.....	June 1-30.....	2		
Stark County.....	June 1-Oct. 31.....	30		
Summit County.....	July 1-31.....	5		
Wayne County.....	June 1-30.....	2		
Wood County.....	June 1-30.....	2		
Total for State.....		237	1	
Oklahoma, general.				
Canadian County.....	Jan. 1-31.....		1	Reported out of date.
Comanche County.....	Apr. 1-30.....		1	
Grady County.....	Apr. 1-30.....		3	
Oklahoma County.....	Apr. 1-30.....		1	
Pottawatomie County.....	Apr. 1-30.....		4	
A Tulsa County.....	May 1-31.....	20	2	
Beckham County.....	May 1-31.....	2		
Blaire 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.....		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		
Total for State.....		265	25	
Oregon:				
Baker County.....	May 1-31.....	1		
Benton County.....	May 1-31.....	2		
Jackson County.....	Sept. 1-30.....	1		
Linn County.....	June 1-30.....	2		
Multnomah County.....	Apr. 1-Sept. 30.....	21		
Umatilla County.....	May 1-31.....	1		
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		
Total for State.....		50		
Pennsylvania, general.				
	Apr. 1-30.....		2	
	May 1-Sept. 30.....	62	4	
Total for State.....		62	6	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
*South Carolina:				
Charleston.....	June 1-July 31.....	28		
Total for State.....		28		
*Tennessee:				
Benton County—				
Camden.....	July 1-7.....	2		
Davidson County—				
Nashville.....	June 12-July 9.....	2		
Hamilton County—				
Chattanooga.....	June 12-Oct. 8.....	5		
Knox County—				
Knoxville.....	June 12-July 16.....	8		
Shelby County exclusive of	May 1-Oct. 31.....	52		
Memphis.....	June 12-Oct. 15.....	9		
Total for State.....		78		
Texas, general.....	Apr. 1-July 31.....	881	27	
Total for State.....		881	27	
Utah, general.....	Mar. 1-31.....	112		Report received out of date.
Beaver County.....	Oct. 1-31.....	1		
Boxelder County.....	May 1-31.....	1		
Cache County.....	May 1-31.....	6		
Davis County.....	May 1-July 31.....	43		
Iron County.....	Oct. 1-31.....	2		
Juab County.....	June 1-July 31.....	3		
Salt Lake County.....	May 1-Oct. 31.....	52	1	
Utah County.....	May 1-Oct. 31.....	56		
Wasatch County.....	Aug. 1-31.....	1		
Washington County.....	Oct. 1-31.....	7		
Weber County.....	May 1-Oct. 31.....	28		
Total for State.....		312	1	
*Virginia:				
Alexandria.....	Aug. 25.....			One case from the schooner, <i>Persis</i> A. Colwell, from Gaspe, Que- bec.
Lynchburg.....	June 12-18.....	1		
Total for State.....		1		
Washington, general.....	Feb. 1-Mar. 31.....		4	Reports for April and May re- ceived out of date.
Adams County.....	Apr. 1-June 30.....	11		
Asotin County.....	Apr. 1-30.....	1		
Chehalis County.....	June 1-30.....	3		
Chelan County.....	Apr. 1-June 30.....	2		
Clarke County.....	Apr. 1-May 31.....	5		
Clallam County.....	May 1-31.....		4	
Cowlitz County.....	May 1-31.....	1		
King County.....	Apr. 1-May 31.....	2		
Seattle.....	Apr. 1-May 31.....	20		
Kitsap County.....	Apr. 1-30.....	15		
Kittitas County.....	May 1-31.....	4		
Lincoln County.....	Apr. 1-May 31.....	2		
Okanogan County.....	May 1-31.....		2	
Pierce County—				
Tacoma.....	Apr. 30-Sept. 30.....	5		
Skagit County.....	July 1-31.....	2		
Skamania County.....	Apr. 1-30.....	4		
Snohomish County.....	Apr. 1-30.....	1		
Everett.....	June 1-30.....	5		
Spokane County.....	July 1-31.....	2		
Spokane.....	Apr. 1-Sept. 30.....	62		
Stevens County.....	May 1-31.....	1		
Thurston County.....	Aug. 1-31.....	1		
Walla Walla County.....	Apr. 1-Oct. 31.....	2		
Whitcom County.....	Apr. 1-May 31.....	17		
Whitman County.....	Apr. 30-July 31.....	16		
Yakima County.....	May 1-Aug. 31.....	10	1	
Total for State.....		194	11	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin:				
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-Oct. 31.....	5		
Iowa County.....	Sept. 1-Oct. 31.....	11		
Kenosha County.....	July 1-31.....	1		
Lafayette County.....	June 1-30.....	1		
La Crosse County.....	June 1-Oct. 31.....	3		
Milwaukee County.....	July 1-Oct. 31.....	16		
Pierce County.....	July 1-31.....	1		
Polk County.....	July 1-Aug. 31.....	6		
Rock County.....	Oct. 1-31.....	1		
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.....		105		
Grand total for the United States.....		7,101	126	

CHOLERA IN THE UNITED STATES.

Place.	Date.	Cases.	Deaths.	Remarks.
New York:				
New York.....	Sept. 26-29.....	1	1	Case in immigrant removed at quarantine from s. s. Germania from Marseille and Naples.
	Nov. 17.....	1		Removed at quarantine from s. s. San Giorgio from Naples and Palermo.

PLAGUE IN THE UNITED STATES.

Reports Received from June 25 to December 9, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
San Benito County— Hollister.....	June 5-11.....	1	1	
Santa Clara County— San Jose.....	Sept. 5.....	1		Sickened Aug. 23, 1910.

MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES, FOR WEEK ENDED NOVEMBER 26.

[For smallpox and plague see special tables.]

Cities.	Total deaths from all causes.		Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.	15			1	1				5	1				
Ann Arbor, Mich.	8													
Ashtabula, Ohio.	1						3							
Aurora, Ill.	17													
Baltimore, Md.	204	25	23	60	13	23			21	4	30		4	1
Bayonne, N. J.	1	1	1			1	1	1	13	1				
Bedford, Ind.	1			1	1	2			1					
Bennington, Vt.	1													
Biddeford, Me.	4		1			2			1					
Binghamton, N. Y.	15		2			1								
Boston, Mass.	217	47	18	15	5	32			36	2	14		7	1
Braddock, Pa.	8					2			1					
Brockton, Mass.	14	3	2	2	1	2								
Buffalo, N. Y.		12	8	10	3	54	3		46	4	3		17	
Butler, Pa.	2								2					
Cambridge, Mass.	31	6	4	3		3			6	1	1		2	
Cambridge, Ohio.	4			2					1					
Camden, N. J.		1				5			7	2	22			
Camden, S. C.	1													
Canton, Ohio.	8					1			1					
Carbondale, Pa.	4			1		1					1			
Charlotte, N. C.	4			1		1			1					
Chattanooga, Tenn.		1				10			2	1				
Chelsea, Mass.	15		2	1	1	5					1			
Chicago, Ill.	613	154	71	68	10	139	7		291	29	45		12	
Chicopee, Mass.	8					1								
Cincinnati, Ohio.	130	26	21	2		19	1		16	1	3			
Cleveland, Ohio.	128	19	13	4		22			27	3	3		3	
Coffeyville, Kans.	3	1		2										
Columbus, Ga.	3													
Columbus, Ind.	4		1											
Columbus, Ohio.	65	5	8	1		2			6		1		3	
Concord, N. H.	7								1					
Council Bluffs, Iowa.	8													
Covington, Ky.	20		1			1			3					
Cumberland, Md.	6		1	21	2				1					
Dayton, Ohio.	33		2	1	1	3			4					
Duluth, Minn.	12	2		6	2	2			19	1				
Dunkirk, N. Y.	7			1	7				3				2	
Elizabeth, N. J.	20		3			2			4					
Elmira, N. Y.	13	1		3										
El Paso, Tex.	25	1	3	4	1									
Erie, Pa.	11	2		2		17	1		3	1	1		3	
Evansville, Ind.	21		3	3		1			3					
Everett, Mass.	6					3								
Freeport, Ill.	2			1		1					1			
Galesburg, Ill.	3					1			4	1	11			
Gloucester, Mass.	5													
Grand Rapids, Mich.	29	5	3	4	1	5			2		51		3	
Greensboro, N. C.	4			1					1					
Harrison, N. J.	2	2												
Haverhill, Mass.	11	5	2	2	1				7					
Hoboken, N. J.	4	1		1		1			2		2		1	
Hyde Park, Mass.	4	1		1		1					1			
Jacksonville, Fla.	21		3	1		3					2			
Johnstown, Pa.	20	3		3	1	1			4	3				
Kalamazoo, Mich.	15	1	1	2		4			4		25		1	
Kansas City, Kans.	34	1	1	5	1	2	1		1				2	
Kearney, N. J.	1	1							2		8			
Kingston, N. Y.	8								1	1	44		9	
Knoxville, Tenn.	25		4			1					3			
La Crosse, Wis.	16				1	6								
La Fayette, Ind.	4	1	1											
Lancaster, Pa.	19	1			1				5		7			
Lawrence, Mass.	30	5	4			5			1		2		1	
Lebanon, Pa.	7		2											
Lexington, Ky.	16			2		1					1			
Lowell, Mass.	21	5		3	3				2		1			
Lynchburg, Va.						3			7					
Manchester, N. H.	20					1					1			

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States, for week ended November 26—Continued.

Cities.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Manistee, Mich.						1		1					
Marinette, Wis.	3				1			1					
Marlboro, Mass.	6			1									
Massillon, Ohio.	4			1	1								
Medford, Mass.	7					2				2			
Melrose, Mass.	5			1					1				
Milwaukee, Wis.	90	12	11	14	3	35		28	3	13		4	
Mobile, Ala.	22		1			4		1					
Moline, Ill.	3					2		5					
Montclair, N. J.	3		1			2		1			1		
Montgomery, Ala.	22		1	2		5		3					
Morristown, N. J.	7					3		1					
Mount Vernon, N. Y.	6				1			3					
Muskegon, Mich.			2		1					1			2
Nanticoke, Pa.	2			1				1					
Nashville, Tenn.	37	2	7	5	1	6		9		1		1	
Newark, N. J.	110	8	17	2	1	20		39	3				
New Bedford, Mass.	35	4	2	4	1	4		6	4				
Newburyport, Mass.	4		2										
New Orleans, La.	145	15	18	14	3	28		10	1	4			
Newport, Ky.	9		1	1				3	1				
Newton, Mass.	6		1							1			
New York, N. Y.	1,284	499	151	61	5	155	5	206	29	117	4	24	7
Niagara Falls, N. Y.	12		1		1	2		10	3				
Norristown, Pa.	8		1					2					
North Adams, Mass.	2									6		2	
Northampton, Mass.	6			1									
Orange, N. J.	8	1	1	1		1		1					
Paducah, Ky.	19		2										
Palmer, Mass.	1												
Peekskill, N. Y.	6			12		2				8		17	2
Pittsburg, Pa.	165	22	8	25	2	19	2	32	7		1		
Pittsfield, Mass.	8	2		1		1	1			25			
Plainfield, N. J.	6	2				5		2		9			
Portsmouth, N. H.				1									
Portsmouth, Va.	5					1		2	1				
Pottstown, Pa.	11			1	2			8	1				1
Providence, R. I.	93	5	10	1	2	1	1	8	4			4	
Reading, Pa.	29			5	2	5		8	4	4			
Rockhill, Ill.	5	1	1			1		4					
Rutland, Vt.				3				1				4	
Sacramento, Cal.	12		1	4	1			1					
St. Louis, Mo.	216	31	17	12	1	68	1	34	2	34	1	3	
Salt Lake City, Utah.	22			1		8		17	1	4			
San Antonio, Tex.	9		8	2		1		3	1				
San Francisco, Cal.	130	17	16	3	2	16		5		11	1	3	
Saratoga Springs, N. Y.	5		1										
Schenectady, N. Y.	14	1	3			2		4	1				
Somerville, Mass.	19		1	1		2		3					
South Bend, Ind.	12			1		1		2					
South Bethlehem, Pa.	2	1	1	1				1		1			
Springfield, Mass.	23	1	2	1		1							
Steelton, Pa.	4		1					5				1	
Superior, Wis.	9				1	1		1	1				
Tacoma, Wash.	27			2	1	3		5	1				
Taunton, Mass.	12	1	2			1		1					
Terre Haute, Ind.	24		2			5		7					
Toledo, Ohio.	40		8	4	3	7		17		1			
Trenton, N. J.	4	3	3	1		5		5	1				
Waltham, Mass.	4	1				2		1					
Warren, Ohio.	2											2	
Washington, D. C.	137	12	10	17	1	4		7	2	2		5	
Wheeling, W. Va.	11	1	1	5	1	4				3	1		
Wichita, Kans.	13					2		11					
Wilkes-Barre, Pa.	28	7	1	1	2	3		2		1			
Wilkinsburg, Pa.	8			2	2	1							
Williamsport, Pa.	12			2				1					
Wilmington, Del.	28		4		2				2				
Woburn, Mass.	4	1				4				1			
Worcester, Mass.	53	8	7	1				21	1	3	2	2	1
Yonkers, N. Y.	17	5	1		1	2		3	2				
York, Pa.				3						1		3	
Zanesville, Ohio.	8		1	3						2			

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

CONNECTICUT—*Stamford*.—Month of November, 1910. Population, 26,000. Total number of deaths from all causes not reported. No deaths from contagious diseases reported. Cases reported: Measles 84, scarlet fever 1, tuberculosis 4.

FLORIDA.—Week ended November 26, 1910. Reports from the State board of health show typhoid fever present in 3 localities with 4 cases, smallpox in 7 counties (Dade, Escambia, Jackson, Leon, Osceola, Polk, and Washington) with 25 cases, scarlet fever in 1 locality with 1 case, diphtheria in 3 localities with 4 cases, malaria in 3 localities with 13 cases, tuberculosis in 4 localities with 8 cases.

ILLINOIS—*Peoria*.—Month of November, 1910. Population, 70,000. Total number of deaths from all causes 76, including diphtheria 2, tuberculosis 5. Cases reported: Smallpox 4, scarlet fever 6, diphtheria 19.

INDIANA—*Muncie*.—Month of November, 1910. Population, 31,692. Total number of deaths from all causes 27, including typhoid fever 1, tuberculosis 4. Cases reported: Typhoid fever 4, scarlet fever 9, diphtheria 3, tuberculosis 1.

IOWA—*Cedar Rapids*.—Month of November, 1910. Population, 33,817. Total number of deaths from all causes 44, including typhoid fever 2, diphtheria 1, tuberculosis 1. Cases reported: Smallpox 9, scarlet fever 1, diphtheria 6.

LOUISIANA—*Shreveport*.—Month of November, 1910. Population, 30,000. Total number of deaths from all causes 86, including typhoid fever 4, pellagra 1, tuberculosis 12.

MARYLAND.—Month of August, 1910. Population, 1,319,132. Total number of deaths from all causes 902, including typhoid fever 35, measles 1, poliomyelitis 10, diphtheria 7, tuberculosis 61. Cases reported: Typhoid fever 521, measles 1, scarlet fever 33, diphtheria 24, poliomyelitis 3.

MASSACHUSETTS—*Mortality*.—Week ended October 1, 1910. Population of reporting towns, 2,405,089. Total number of deaths from all causes 725, including typhoid fever 12, scarlet fever 1, diphtheria 11, tuberculosis 60. Week ended October 8, 1910. Total number of deaths from all causes 803, including typhoid fever 10, measles 1, scarlet fever 4, diphtheria 19, tuberculosis 70. Week ended October 15, 1910. Population of reporting towns, 2,393,291. Total number of deaths 686, including typhoid fever 8, measles 2, diphtheria 15, tuberculosis 69. Week ended October 22, 1910. Total number of deaths 693, including typhoid fever 8, diphtheria 8, tuberculosis 43. Week ended October 29, 1910. Total number of deaths 695, including typhoid fever 4, measles 1, scarlet fever 2, diphtheria 15, tuberculosis 61.

Morbidity.—Reports of infectious diseases show 574 cases of typhoid fever, 215 of measles, 480 of scarlet fever, 712 of diphtheria, 555 of tuberculosis.

MICHIGAN.—Month of October, 1910. Population, 2,668,308. Total number of deaths from all causes 3,132, including typhoid fever 126, measles 2, scarlet fever 13, diphtheria 52, tuberculosis 229. Cases reported: Typhoid fever was reported present in 164 localities with 566 cases, smallpox in 19 localities with 131 cases, measles in 20 localities with 245 cases, scarlet fever in 76 localities with 364 cases, diphtheria in 62 localities with 433 cases, tuberculosis 67 cases.

FOREIGN AND INSULAR.

ARABIA.

MASKAT—Cholera.

Consul Ray reports November 8:

During the week ended November 5 there were reported at Maskat 8 cases of cholera with 8 deaths. Cholera is reported from Surur and other villages, indicating that the disease is no longer confined to the seacoast, but is spreading to the interior.

BRAZIL.

PARA—Measures Against Yellow Fever.

Consul Pickerell reports November 21:

A commission headed by Dr. Oswaldo Cruz has been appointed for carrying out measures against yellow fever. The city of Para has been divided into three principal districts and to each district there has been assigned a medical officer with sufficient assistants for a full and complete examination when required and for disinfection of premises. A house-to-house inspection is to be carried out. Local physicians are reporting all fever cases that occur in their practice and every case reported is being promptly isolated until its character can be determined. When a case of yellow fever is discovered it is conveyed to hospital and the premises and vicinity are disinfected. Every opening in the infected house is made close and the tiled roof of the house is covered with thick cotton cloth to prevent the escape of the fumes. The usual regulations with regard to old tin cans, bottles, and every article capable of aiding in the reproduction of mosquitoes, are being rigorously enforced.

CHINA.

CANTON—Cholera in Vicinity.

Acting Assistant Surgeon Hough, at Hongkong, reports October 21:

Six cases of cholera, with 5 deaths, have occurred at the insane hospital at Fa Ti, which is situated across the river from Canton.

SHANGHAI—Plague.

Acting Assistant Surgeon Ransom reports October 28:

Plague-infected rats have been found in this settlement in greater or less numbers for about two years, and more especially in the Hongkew district, where most of the wharves are located; that is, the wharves from which steamships for the United States take their departure. Upon the development of rat plague here, vessels taking bills of health from this office were required to remain in the stream and load from lighters and to use rat guards upon the lines to the lighters, and cargo was subjected to such supervision as was possible to render the taking of rats on board by this means unlikely. The personnel of vessels taking bills of health from Shanghai are inspected as nearly as possible at the hour of departure.

The plague condition at Shanghai is grave, not so much from the number of cases which have been proved, 2 in all, but from the number which may have occurred undetected, the absolute impossibility of rat-proofing the average Chinese house, or of fumigating it so as to effectually destroy all vermin, and the almost if not quite insurmountable difficulties in the way of the health authorities.

The district in which occurred these 2 fatal cases and about 7 suspicious cases is the northwest section of the settlement, filled with godowns and the residence of a poor class of Chinese, and immediately surrounded outside the settlement by Chinese territory, over which the municipal authorities can exercise no control, and which is inhabited by the beggar class—living under the most insanitary conditions.

The local health department is acting energetically in the matter and is frankly placing the details of the situation before the medical men and the community, and hopes for the support of both. They are asking for authority to make the report of communicable diseases compulsory instead of optional, as at present, for authority to remove cases of plague and suspects to proper observation stations and hospitals, and for permission to demolish or otherwise destroy any houses deemed particularly dangerous. They intend to fumigate places where cases have occurred, with the purpose of destroying vermin, and will as far as possible surround such foci with rat-proof fences of iron wire before beginning the disinfection with the hope of destroying all rats on the premises. The public at large is to be offered prophylactic inoculations when desired.

Doctor Ransom further reported, November 9:

During the week ended November 5 there were reported 4 deaths from plague among natives. The fact that several foci exist so early in the outbreak and separated by rather considerable distances suggests the possibility that the disease has existed unrecognized among human beings for some time. The district in which the cases appeared is immediately on the border of the settlement of Shanghai, but beyond the jurisdiction of the municipal authorities or the consuls. The people living in the district transact business inside the settlement, and even if they could be excluded it would be impossible to exclude the dogs, rats, and fleas. The construction of native houses especially as to floors and roof, favors the harboring of rats.

ECUADOR.

GUAYAQUIL—Plague and Yellow Fever.

Passed Assistant Surgeon Parker reports, November 12:

The following report of sanitary conditions in Guayaquil and vicinity for the month of October, 1910, was received from the director of health:

Plague.—During the month of October there were reported 168 cases of plague with 58 deaths, an increase of 81 cases and 22 deaths over the preceding month. During the month Duran and Babahoyo each contributed one case.

Yellow fever.—During the same period there were reported 16 cases of this disease with 6 deaths, an increase of 13 in the number of cases and 4 in the number of deaths over the preceding month.

During the same period there were reported 324 deaths from all causes, which with an estimated population of 70,000 would give an annual mortality rate of 55.54 per 1,000 living. For the same period in 1909 there were 333 deaths from all causes.

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 Asst. Surg. Ramus reports in regard to plague-prevention work, November 21:

HONOLULU.

Week ended November 19, 1910.

Total rats and mongoose taken.....	673
Rats trapped.....	566
Mongoose trapped.....	13
Rats found dead (<i>Mus rattus</i>).....	1
Rats shot from trees.....	93
Examined bacteriologically.....	593
Plague rats.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i>	100
<i>Mus musculus</i>	175
<i>Mus norvegicus</i>	65
<i>Mus rattus</i>	227
Classification of rats shot from trees:	
<i>Mus alexandrinus</i>	19
<i>Mus norvegicus</i>	17
<i>Mus rattus</i>	50
Average number of traps set daily.....	1,720

Further relative to yellow fever on steamship *Hongkong Maru*.^a

Doctor Ramus reported November 11:

The Japanese steamship *Hongkong Maru* arrived off port October 30 from Valparaiso, Chile, via Iquique, Chile, Callao, Peru, and Salina Cruz and Manzanillo, Mexico, having a case of yellow fever in a Japanese steerage passenger.

When Acting Assistant Surgeon Sinclair was inspecting the vessel he found large numbers of small moths and flies, also spiders in the storerooms, steerage, and crew's quarters. I confirmed this a little later and am of the opinion that this vermin could not have survived an efficient fumigation.

After the pilot had anchored the vessel as far out as possible Acting Assistant Surgeon James fumigated it throughout. All the personnel, including first-cabin passengers, were required to remain on deck during the fumigation. It was impossible to take any passengers to the quarantine station on account of the presence in the islands of the *Stegomyia calopus* mosquito.

The arrival off Honolulu of a case of yellow fever is entirely new in the history of the islands.

INDIA.

CALCUTTA—Cholera and Plague.

Acting Assistant Surgeon Allan reports November 10:

During the week ended October 22 there were 25 deaths from cholera and 7 from plague in Calcutta; in all Bengal, 126 cases of plague with 104 deaths; in all India, 6,519 cases of plague with 4,768 deaths.

^a For previous report see Public Health Reports, Nov. 11, 1910, p. 1643.

ITALY.
Status of Cholera.

Surgeon Geddings at Naples reports November 21:
During the week ended November 19 cholera was reported in Italy as follows:

Province.	Cases.	Deaths.
Naples.....	6	1
Caltanissetta.....	2	1
Campobasso.....	1	
Caserta.....	25	6
Girgenti.....	1	
Lecco.....	1	1
Palermo.....	10	
Rome.....	10	1
	56	10

Doctor Geddings further reported:
Naples, week ended December 6, none; rest of Italy 55 cases with 6 deaths.

NAPLES—Examination of Emigrants—Smallpox.

Surgeon Geddings reports:

Vessels inspected at Naples and Palermo, week ended November 19.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Nov. 17	Regina d'Italia.....	New York.....	420	80	625
17	Italia.....	do.....	274	60	390
17	Saxonia.....	do.....			
18	Canopic.....	Boston.....	835	205	1,155
18	San Giovanni.....	New York.....	129	12	260
19	Europa.....	do.....	1,122	190	1,490
	Total.....		2,780	547	3,910

PALERMO.

Nov. 18	Regina d'Italia.....	New York.....	221	350	125
18	Italia.....	do.....	275	475	250
19	Canopic.....	Boston.....	89	200	75
19	San Giovanni.....	New York.....	234	500	250
	Total.....		819	1,525	700

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
Nov. 17	Regina d'Italia.....	24	1	5		2	32
17	Italia.....	11	1	1		3	16
18	Canopic.....	19	3	4	1	2	29
18	San Giovanni.....	4					4
19	Europa.....	35	1	9		5	50
	Total.....	93	6	19	1	12	131

*Vessels inspected at Naples and Palermo, week ended November 19—Continued.**Rejections recommended—Continued.*

PALERMO.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
Nov. 18	Regina d'Italia.....	15	.....	12	.....	4	31
18	Italia.....	13	.....	14	.....	6	33
19	Canopic.....	4	.....	3	.....	1	8
19	San Giovanni.....	12	.....	12	.....	2	26
	Total.....	44	.....	41	.....	13	98

Smallpox in Naples.—During the week ended November 19, 9 cases of smallpox were reported at the health office of the city of Naples.

JAPAN.

Cholera, Plague, and Smallpox.

Acting Assistant Surgeon Moore, at Kobe, reports November 16:

During the week ended November 12 there were 5 deaths from cholera and 1 case of smallpox in Kobe.

Surgeon Irwin, at Yokohama, reports November 14:

A fatal case of cholera was reported at Tokyo October 17. Plague continues present on the island of Shikoku, 23 cases with 16 deaths being reported to date for the city of Matsuyama.

MANCHURIA.

Plague.

Consul Greene at Harbin, Manchuria, reports, November 12:

On October 25 the attention of the Russian railway officials at Manchuria station (Manchouli) was called to 2 cases of Chinese who were ill with symptoms of inflammation of the lungs. During the night one of the patients died, and as a result of an autopsy and bacteriological examination the presence of the plague bacillus was discovered. On the same day 9 Chinese were found dead of the disease. According to the statements of the Russian health officers employed by the Chinese Eastern Railway, the plague is of the pneumonic type, which is more virulent than the bubonic plague, more commonly known in the Far East. It appears to have been prevalent for some time among the tarabagans, a kind of large prairie dog, found in eastern Mongolia, which is hunted by the Chinese for its fur. Large quantities of the skins have been shipped to Europe during the last few years, and the prices offered for them have risen so fast that great numbers of Chinese have been attracted to the business of catching the animals. All the first cases of plague are reported to have occurred among the tarabagan hunters.

The Chinese quarter of the settlement at Manchuria station, where the hunters were living, was promptly isolated and military guards posted about the infected houses to prevent communication with them. Mounted patrols were placed on the three roads leading from Mongolia to Manchuria.

On October 27 a special sanitary executive committee was appointed at Manchuria station, and an observation station was established, to which all persons who might have come into contact

with plague patients were sent. A medical inspection was instituted for all passengers leaving Manchuria station, and all the Chinese and part of the Russian population of the settlement were examined by health officers. Additional surgeons and assistants were sent from Harbin and from Chita. All tarabagan skins, clothing, etc., presented for shipment were required to be disinfected, and sanitary cars were equipped to accompany all passenger trains. Up to November 1 there had been 45 cases at Manchuria station, of which 38 were fatal, and 270 persons were under observation. There had been one death at Jalai Nor station. Cases were subsequently discovered at the Jalai Nor coal mines, at Hailar, Jalantun, and finally on November 9 there was one death at Harbin. Most of the cases have been among Chinese, but on November 4 one of the Russian attendants at Manchuria station was found to have the disease.

According to the official organ of the railway company, the number of cases and deaths reported up to November 10 along the line of the railway was as follows:

	Chinese.		Russians.	
	Cases.	Deaths.	Cases.	Deaths.
Manchuria station	100	86	3	2
Jalai Nor mines	14	12	.....	.....
Hailar	3	1	.....	.....
Harbin	1	1	.....	.....

On the same date 535 persons were under observation at Manchuria station, 1,082 at Jalai Nor, and 85 at Harbin.

At all the important stations on the western line sanitary committees have been established and every effort is being made to isolate all suspected persons and houses. The laborers' barrack, where the first Harbin case was discovered, was burned down, first being surrounded with wire netting by means of which all the rats escaping from the house were stopped. Other suspicious cases were found in the New Town, in the Pristan, and in Fuchiatien, and were promptly isolated.

Acting Assistant Surgeon De Forrest, at Libau, reported, November 21, a total of 188 cases of cholera at Manchuria station from beginning of outbreak to date, with 166 deaths.

PERU.

CALLAO—Plague.

Acting Assistant Surgeon Castro-Gutierrez reports November 17 and 18:

A case of plague was reported at Callao November 12.

The steamship *Guatemala* left Callao for Ancon, Canal Zone, October 25. A case of plague developed on board the vessel en route and was left at Paita. The patient was a member of the personnel of the vessel.

Status of Plague in Peru.

The following reports on the status of plague in Peru were received from the director of public health.

SEPTEMBER, 1910.

Departments.	Cases remaining Aug. 31.	New cases.	Recovered.	Died.	Remaining Sept. 30.
Callao.....		1	1		
Arequipa.....	1		1		
Lambayeque.....		1		1	
Libertad.....	4	16	4	10	6
Lima.....	7	11	8	5	5
Piura.....		1			1

OCTOBER, 1910.

Departments.	Cases remaining Sept. 30.	New cases.	Recovered.	Died.	Remaining Oct. 31.
Callao.....		5	4		1
Lima.....	5	7	7	3	2
Lambayeque.....		1		1	
Libertad.....	6	32	9	17	10
Piura.....	1	1	1	1	

October 30–November 12.

Place.	Cases remaining Oct. 30.	New cases.	Recovered.	Died.	Remaining Nov. 12.
Lima.....	3	2	2	1	2
Callao.....	3		3		

Bills of health show as follows:

Valparaiso (October 26): Smallpox, many cases in the past 2 weeks.

Valparaiso (November 4): Smallpox, 75 cases and 3 deaths in the past 2 weeks.

Mollendo (November 15): One case of plague and 1 death in the past 2 weeks.

PHILIPPINE ISLANDS.

Status of Cholera.

Passed Asst. Surg. Victor G. Heiser, chief quarantine officer for the Philippine Islands, reports, October 26 and November 3:

There has been a most gratifying decrease in the number of cholera cases. In Manila there has been only an occasional case, not amounting to more than one or two per week during the past month, and since October 21 no case has been reported.

The Provinces also show a great improvement. For the preceding week there were 171 cases reported, whereas for the week just closed the number has dropped to 80.

The outbreak which occurred at Boac, on the island of Marinduque, was completely eradicated within a period of 10 days. This latter result was particularly gratifying, because it was entirely brought about by Filipino assistant sanitary inspectors who had undergone a special course of training in cholera-suppressive measures under the direction of Passed Asst. Surg. A. J. McLaughlin.

Some weeks ago the disease was carried from Batangas to Naujan, Mindoro. This outbreak was soon completely stamped out. During the closing days of the week, however, the infection was again carried from Batangas to Naujan by one of the numerous small sailing craft that ply between those islands.

Cholera in Manila.

During the week ended October 22 there were reported in the city of Manila 2 cases of cholera, and during the week ended October 29 there was reported 1 case.

CHOLERA IN THE PROVINCES.

WEEK ENDED OCTOBER 22.

Provinces.	Cases.	Deaths.
Batangas.....	26	15
Bulacan.....	6	7
Ilocos Sur.....	19	17
Mountain.....	3	2
Nueva Ecija.....	5	3
Rizal.....	17	10
Tarlac.....	4	4
Total.....	80	58

WEEK ENDED OCTOBER 29.

Ambos Camarines.....	10	10
Batangas.....	5	10
Bulacan.....	8	6
Cavite.....	4	3
Ilocos Sur.....	5	3
Nueva Ecija.....	1	1
Rizal.....	9	4
Tarlac.....	1	1
Total.....	43	38

PORTUGAL.

LISBON—Plague.

Consul General Ayme reports November 22:

Since November 7 there have occurred 2 cases of plague with 1 death, the death occurring November 8. The cases appeared in hospital. Energetic measures of disinfection have been carried out in the infected district. Of 1,000 rats taken and bacteriologically examined, none was found to be plague infected.

RUSSIA.

Status of Cholera. .

Minister Rockhill at St. Petersburg reported November 14 and 19 to the Department of State:

During the week ended October 29 there were 76 cases of cholera with 29 deaths in the city of St. Petersburg, and in all Russia 449 cases with 279 deaths. During the week ended November 5 there were 25 cases with 15 deaths in St. Petersburg, and in all Russia 170 cases with 110 deaths.

LIBAU—Leprosy and Smallpox—Examination of Emigrants.

Acting Assistant Surgeon De Forest reports November 21:

During the week ended November 19 there were reported in Libau 1 case of leprosy and 2 cases of smallpox, with 1 death.

For the steamship *Lituania* which sailed for New York, November 19, there were examined 942 passengers. No case of quarantinable disease was found among them. The number of passengers who sailed was 815 and members of crew 96. All had been in Libau for the full 5 days. All foodstuffs had been removed upon arrival of passengers in Libau and at time of embarkation. Most of the foodstuff removed was in large baggage. All passengers and members of crew had been vaccinated before embarkation.

ODESSA—Plague.

Consul Grout reports November 21:

During the week ended November 18 there were 4 new cases of plague with 1 death reported in Odessa. At the close of the week there were 10 cases in hospital. The total number of cases reported to date is 138, with 40 deaths.

SIERRA LEONE.**Yellow Fever in West Africa.**

Consul Yerby reports November 10:

In June, 1910, a commission was sent by the British Government to West Africa to take measures to stamp out yellow fever which was assuming epidemic form. The itinerary of the commission included in the Gold Coast territory the ports of Sekondi, Accra, Koomassie, Obuassie, and Tarquah, in Sierra Leone the ports of Freetown, Kenema, and Bo, and in Southern Nigeria, Lagos. The commission through its chairman, Sir Rupert Boyce, reports its conclusions and states as follows:

This disease is the one which has all along been mainly responsible for giving West Africa an evil reputation and which has actually gained for Freetown the name of "white man's grave." Now that this disease is definitely known to be yellow fever it is a comparatively easy matter to get rid of it as has been done in Panama, Rio de Janeiro, and the West Indies.

Note: Yellow fever was reported in the Gold Coast at Sekondi May 1 to 27, and in Sierra Leone at Freetown May 1 to September 30, and Sherboro. (See yellow fever table p. 1865.)

TURKEY.**SALONIKI—Quarantine Against Smyrna.**

Consul Horton reports November 17:

On account of the appearance of cholera at Smyrna arrivals at Saloniki from that port will be subjected to medical inspection until further notice.

VENEZUELA.**Yellow Fever at Caracas.**

Acting Assistant Surgeon Goldthwaite at La Guaira reports November 28:

During the 2 weeks ended November 26 there were reported at Caracas 3 cases of yellow fever with 3 deaths.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week ended December 16, 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.
Arabia:				
Mascat.....	Oct. 29-Nov. 5.....	8	8	
Surur.....	Oct. 29-Nov. 5.....			Present and in vicinity.
Austria-Hungary:				
Gratz.....	Nov. 7.....	1		
China:				
Fa Ti.....	Oct. 21.....	6	5	Across the river from Canton in the insane hospital.
Pathoi.....	Sept. 17.....			Present.
Federated Malay States:				
Kwala Lumpur.....	Oct. 22.....			Present in rubber estates of Krian.
India:				
Bombay.....	Nov. 2-8.....		1	
Calcutta.....	Oct. 16-22.....		25	
Madras.....	Oct. 28-Nov. 2.....		3	
Italy:				
Provinces—				
Caltanissetta.....	Nov. 13-19.....	2	1	
Campobasso.....	Nov. 13-19.....	1		
Caserta.....	Nov. 13-19.....	25	6	
Girgenti.....	Nov. 13-19.....	1		
Lecce.....	Nov. 13-19.....	1	1	
Naples, exclusive of the city of Naples.....	Nov. 13-19.....	6	1	
Palermo.....	Nov. 13-19.....	10		
Rome.....	Nov. 13-19.....	10	1	
Japan:				
Kobe.....	Nov. 6-12.....		5	
Tokyo.....	Oct. 17.....	1	1	
Java:				
Batavia.....	Oct. 23-29.....	6	3	
Paseroean.....	Aug. 11-Sept. 10.....	68	63	
Samarang.....	Aug. 1-Sept. 10.....	189	170	
Philippine Islands:				
Manila.....	Oct. 16-29.....	3		
Provinces—				
Ambos Camarines.....	Oct. 23-29.....	10	10	
Batangas.....	Oct. 16-29.....	31	25	
Bulacan.....	Oct. 16-29.....	14	13	
Cavite.....	Oct. 23-29.....	4	3	
Iloos Sur.....	Oct. 16-29.....	24	20	
Mountain.....	Oct. 16-22.....	3	2	
Nueva Ecija.....	Nov. 16-29.....	6	4	
Rizal.....	Nov. 16-29.....	26	14	
Tarlac.....	Nov. 16-29.....	5	5	
Russia:				
City of—				
St. Petersburg.....	Oct. 23-29.....	76	29	
Cronstadt.....	Oct. 23-29.....		3	
Government of—				
St. Petersburg.....	Oct. 23-29.....	5	3	
Vologda.....	Oct. 23-29.....		1	
Olonetz.....	Oct. 23-29.....		2	
Mohleff.....	Oct. 23-29.....	3	2	
Vitebsk.....	Oct. 23-29.....	15	8	
Podolia.....	Oct. 23-29.....	15	7	
Kieff.....	Oct. 23-29.....	17	4	
Koursk.....	Oct. 23-29.....	1	1	
Veronej.....	Oct. 23-29.....	5	5	
Simbirsk.....	Oct. 23-29.....	5	7	
Samara.....	Oct. 23-29.....	53	20	
Saratoff.....	Oct. 23-29.....	16	8	
Perm.....	Oct. 23-29.....	1		
Orenburg.....	Oct. 23-29.....	13	4	
Kherson.....	Oct. 23-29.....	8	3	
Ekaterinoslav.....	Oct. 23-29.....	8	7	
Tiflis.....	Oct. 23-29.....	1		
Erivan.....	Oct. 23-29.....	9	2	
Tobolsk.....	Oct. 23-29.....	5	2	
Tomsk.....	Oct. 23-29.....	1		
Total for Italy, Dec. 1-6, cases 55; deaths 6.				
Total for Russia, Oct. 23-29, cases 449, deaths 279.				

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

Reports Received During Week ended December 16, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Territory of—				
Kuban	Oct. 23-29	2	4	
Syr-Daria	Oct. 23-29	1	1	
Ferganah	Oct. 23-29	8	5	
Akmolinsk	Oct. 23-29	14	9	
Amur	Oct. 23-29	15	7	
Eastern Siberia	Oct. 23-29	149	140	
Prefecture of—				
Odessa	Oct. 23-29	1	1	
Baku	Oct. 23-29	1	1	
Russia				Total for Russia, Oct. 30-Nov. 5, cases 170, deaths 110.
City of St. Petersburg		25	15	
Government of—				
St. Petersburg		3	1	
Moguliew		1	1	
Vitebsk		1	1	
Podolia		1	1	
Kieff		21	9	
Veronege		3	2	
Samara		26	9	
Saratow		5	4	
Orenburg		26	11	
Ekaterinoslaw		8	7	
Kherson		3	1	
Tiflis		1	1	
Territory of—				
Tourgai		1	1	
Syr-Daris		1	1	
Transcaspien		1	1	
Ferganah		2	6	
Akmolinsk		3	3	
Amur		9	11	
Eastern Siberia		25	29	
Prefecture of—				
Sebastopol		2	2	
Baku		2	1	
Servia:				
Belgrade	Oct. 7-Nov. 8	4	1	
Passarowitz	Oct. 7-Nov. 8	1	1	
Turkey in Asia:				
Basra	Oct. 28-Nov. 5	97	61	In vicinity, cases 112, deaths 76.

YELLOW FEVER.

Brazil:				
Manaos	Oct. 23-Nov. 12		4	Including cases of fever not specific.
Para	Nov. 13-19	46	18	
Ecuador:				
Guayaquil	Oct. 16-31	8	2	
Venezuela:				
Caracas	Nov. 13-26	3	3	

PLAGUE.

Brazil:				
Bahia	Oct. 1-7	1	1	
China:				
Shanghai	Oct. 28-Nov. 5	6	6	
Ecuador:				
Guayaquil	Oct. 16-31	85	33	
India:				
Bombay	Nov. 2-8		12	
Calcutta	Oct. 16-22		7	
Kurrachee	Oct. 31-Nov. 5	6	6	
Rangoon	Oct. 23-29		3	

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

Reports Received During Week ended December 16, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Manchuria:				
Hallar	Nov. 10.....	3	1	
Harbin	Nov. 10.....	1	1	
Jalal Nor Mines	Nov. 10.....	14	12	
Manchuria Station	Oct. 25-Nov. 19...	188	166	Three cases and two deaths among Russians.
Mauritius	Sept. 2-29.....	41	26	
Peru:				
Departments—				
Arequipa—				
Mollendo				Nov. 15, one fatal case.
Callao	Sept. 1-Oct. 31...	6		Nov. 12, one case.
Lambayeque	Sept. 1-Oct. 31...	2	2	
Libertad	Sept. 1-Oct. 31...	48	27	Nov. 12, present in Trujillo and Chicama Valley.
Lima	Sept. 1-Oct. 31...	18	8	Nov. 12, two cases and one death in Lima.
Piura	Sept. 1-Oct. 31...	2	1	
Portugal:				
Lisbon	Nov. 3-8.....	2	1	
Russia:				
Odessa	Oct. 29-Nov. 19...	6	1	

SMALLPOX.

Argentina:				
Buenos Aires	Sept. 1-30.....		17	
Rosario	Aug. 1-Sept. 30...		10	
Brazil:				
Bahia	Oct. 1-7.....	16	10	
Santa Catharina, State of	Oct. 12.....			Epidemic in Joinville and vicinity, cases 300, and in Florianopolis and Theropolis.
Canada:				
Louisburg	Nov. 27-Dec. 3.....	1		
New Castle	Nov. 27-Dec. 3.....	3		
Sydney	Nov. 27-Dec. 3.....	3		
Victoria	Nov. 13-19.....	2		
Colombia:				
Cartagena	Nov. 13-19.....	8		
Chile:				
Valparaiso	Nov. 12.....			Still present.
China:				
Shanghai	Nov. 1-6.....	1	20	Deaths among natives.
Egypt:				
Cairo	Nov. 5-11.....	2		
Germany, general	Nov. 6-12.....	4		
Gibraltar	Nov. 14-27.....	5	2	
Italy:				
Naples	Nov. 13-19.....	9		
Japan:				
Kobe	Nov. 6-13.....	1		
Java:				
Batavia	Oct. 23-29.....	2		
Mexico:				
San Luis Potosi	Oct. 23-29.....	5	1	
Portugal:				
Lisbon	Nov. 13-19.....	26		
Russia:				
Libau	Nov. 14-20.....		1	
Riga	Nov. 6-19.....	37		
St. Petersburg	Nov. 6-12.....	33	7	
Spain:				
Valencia	Nov. 13-19.....	1		
Straits Settlements:				
Penang	Sept. 4-Oct. 22.....	372	95	
Turkey in Asia:				
Beirut	Nov. 6-19.....	10	1	
Zanzibar:				
Zanzibar	Oct. 17-23.....	8	3	

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

Reports Received from June 25 to December 9, 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.
Arabia:				
Maskat.....	Sept. 18-Oct. 29...	49	41	Including Matrah.
Austria-Hungary:				
Galicia—				
Padwolocyzska.....	June 20.....	1	1	From Russia.
Hungary.....				Total for Hungary, Aug. 19–Nov. 5: Cases, 345; deaths, 172.
Budapest.....	Sept. 8-Oct. 1.....	8	5	
Kalocsa.....	Sept. 23.....			Present.
Mohacs.....	Aug. 25–Sept. 24..	22	10	
Neusatz.....	Sept. 23.....			Do.
Pressburg.....	Aug. 24–30.....	1	1	From the steamer Rosenberg.
Lalbach.....	Oct. 24.....	1		
Trieste.....	Oct. 16.....	1		
Vienna.....	Aug. 21–Sept. 24..	9	2	
Borneo:				
Pamangkjat.....	July 22–31.....	20	20	
Brazil:				
Para.....	Oct. 22.....	2		From s. s. Manaos, transhipped from s. s. Araguaya, from Southampton via Cherbourg.
Pernambuco.....	Oct. 20.....			Two fatal cases on s. s. Manaos en route to Para. Cases transhipped from s. s. Araguaya.
Canada:				
Quebec.....	Nov. 18.....	1		A Russian immigrant from s. s. Royal George, from Bristol.
China:				
Amoy.....	July 17–Sept. 24..	6	6	
Fatshan.....	July 1.....			Epidemic.
Hankow.....	Aug. 7–Oct. 22..	7	2	
Hongkong.....	July 10–16.....	9	6	Imported.
Swatow.....	May 10–June 6.....		254	From 3,000 to 4,000 deaths in vicinity.
Colombo:				
Ceylon.....	July 3–9.....	1		
Denmark:				
Copenhagen.....	Sept. 27.....	1		On a steamer from Holland.
France:				
Marseille.....	Oct. 4–6.....	4	3	Three cases from s. s. Bosphore, from Piræus; 1 case a contact.
Germany:				
Frelburg.....	Sept. 9–13.....	2		
Kalthoff.....	Sept. 14.....	10	6	Suburb of Marienburg.
Marienburg.....	Sept. 13–Oct. 9..	16	6	
Ruhleben (near Berlin).....	June 23–27.....	2	2	Among Russian emigrants.
Sommerau.....	Sept. 22.....	1	1	
Spandau (near Berlin).....	Aug. 29.....	2	1	
India:				
Bombay.....	June 8–Nov. 1.....		42	
Calcutta.....	May 1–Oct. 15.....		579	
Kurrachee.....	July 24–Oct. 8.....	43	36	
Madras.....	May 21–Oct. 28.....		122	Madras Presidency: Oct. 1–Dec. 31, 1909, cases, 5,570; deaths, 3,264. Jan. 1–Sept. 31, 1910, cases, 25,472; deaths, 16,043.
Moulmine.....	May 1–7.....	1	1	
Negapatam.....	Apr. 16–Oct. 7.....		301	
Rangoon.....	May 8–Oct. 15.....		17	
Indo-China:				
Halpong.....	Aug. 30.....			Present.
Saigon.....	Jan. 1–Oct. 10.....	80	54	
Italy.....				Total for Italy exclusive of Naples, Oct. 2–Nov. 29: Cases 601, deaths 241.
Provinces of Avellino.....	Oct. 9–22.....	7	2	
Province of Bari—				
Andria.....	Aug. 17–Oct. 22..	41	29	
Barietta.....	Aug. 17–Sept. 24..	167	102	
Bisceglie.....	Aug. 17–Oct. 22..	4	2	
Bitonto.....	Aug. 17–Oct. 22..	3	1	
Canosa.....	Aug. 17–Sept. 10..	10	2	
Carbonara.....	Oct. 2–7.....	1	1	
Grumo Appula.....	Aug. 17–27.....	1		
Molfetta.....	Aug. 17–Oct. 22..	80	29	
Ruvo.....	Aug. 17–Oct. 1.....	4	1	

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

Reports Received from June 25 to December 9, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy—Continued.				
Province of Bari—Cont'd.				
Spinazzola	Aug. 17—Sept. 4	15	8	
Terilzi	Oct. 1-7	2		
Trani	Aug. 17—Sept. 10	93	71	
Triggiano	Sept. 18-24	1		
Province of Caltanissetta	Nov. 6-12	1	1	
Province of Campobasso	Oct. 9-22	6	2	
Province of Caserta	Oct. 1—Nov. 12	271	178	
Province of Foggia—				
Cerignola	Aug. 17—Oct. 7	38	30	
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	
Province of Lecce	Oct. 16—Nov. 12	14	9	
Province of Messina	Oct. 16-22	1	1	
Province of Naples, exclusive of city of Naples.	Oct. 9—Nov. 12	187	40	
Naples	Sept. 25—Nov. 8	329	131	
Palermo	Oct. 16-22			
Palermo	Oct. 16—Nov. 12	20	9	
Province of Perugia	Nov. 6-12	2		
Province of Potenza—				
Genzano	Aug. 17-27	2	1	
Palazzo San Gervasio	Aug. 17-27	1	1	
Province of Rome				
Fiumicino	Oct. 2-7	1	1	
Rome	Sept. 25—Oct. 29	19	9	
Sezze	Oct. 30—Nov. 12	5	1	
Terracina	Oct. 23—Nov. 5	6	1	
Province of Salerno	Oct. 1—Nov. 12	28	10	
Province of Sicily—				
Girgenti	Oct. 21—Nov. 12	7	1	
Monreale	Oct. 1	1		
Palermo	Sept. 28	4		
Trapani	Oct. 21-22	3	2	
Sardinia	Oct. 3-12	5	1	
Japan				
				Total for all Japan, Sept. 12—Oct. 19: Cases, 800.
Awaji Island	July 22-28	3		
Ehime	Oct. 4	5		
Fukuoka	Oct. 4	20		
Hiroshima	Oct. 4	5		
Ibogan	Aug. 5	3	1	
Kagawa	Oct. 4	2		
Kyoto	Oct. 7	82	30	
Kobe	Sept. 12—Nov. 5	362	195	
Matsuyama	Nov. 5-14	23	16	
Moji	Aug. 13—Oct. 19	44	25	
Nagasaki	Aug. 15—Nov. 3	8	2	
Nagoya	Sept. 25—Oct. 8	1	1	
Nara	Oct. 4	1		
Okayama	Oct. 4	1		
Osaka	Aug. 6—Oct. 10	195	117	
Tokushima	Oct. 7	2		
Wakamatsu	Oct. 8	2		
Yokohama	Aug. 22	1		
Java				
Batavia	May 8—Oct. 15	403	266	
Samarang	May 8—July 31	323	266	
Soerabaya	May 8—Aug. 20	125	70	
Korea:				
Chinampo	Aug. 26-27	2	1	
Phong Yang	Oct. 2	70	40	
Madeira:				
Funchal	Nov. 16-29	77		
Manchuria:				
Dalny	Aug. 21—Sept. 10	4	1	
Morocco, general	Sept. 27—Oct. 7		5	
Netherlands:				
Rotterdam	July 23-29	1		

Total for all Japan, Sept. 12—Oct. 19: Cases, 800.

Oct. 1-15: Cases, 150.
Sept. 12: First case from s. s. Amakusa Maru, from Dalny.Aug. 13: One case on s. s. Helios.
Aug. 15: One case on s. s. Kasuga Maru, from Shanghai. Oct. 19: One case from s. s. Chicago Maru.

To Oct. 23: Total number of cases, 802.

On s. s. Siberia, from Shanghai.
June 18: Present in extreme eastern part.

Mainly among natives.

From steamship Suma Maru.

Between Rabat and Casablanca among troops.

From a vessel from Russia.

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

Reports Received from June 25 to December 9, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Ardabil.....	July 1-Aug. 21.....	70	56	
Chudja.....	Sept. 4.....	2	1	
Churine-Sou.....	Oct. 1.....			Present.
Enzell.....	Aug. 20-Sept. 14.....	4	3	
Ghazian.....	Sept. 21-30.....	3	2	
Ghechlagh.....	Oct. 1.....	4		
Ghol-Joughan.....	Oct. 1.....			Do.
Hassan Branch.....	July 11-13.....	6	2	
Imam-Goll.....	Sept. 28.....			Do.
Kermanshah.....	Oct. 1-10.....	67	46	Present in all localities between Hamadan and Ksinekin.
Khorassan Province—				
Badjuirian.....	Aug. 1-Sept. 13.....	10	4	
Koutcham.....	Sept. 13.....	2	1	
Meshed.....	Sept. 13-27.....	160	80	And vicinity.
Nir.....	Sept. 4.....			Present.
Serab.....	Aug. 4-27.....			Do.
Philippine Islands:				
Manila.....	May 22-Oct. 15.....	415	273	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	
Ambos Camarines.....	Oct. 2-15.....	31	20	
Batangas.....	May 1-Oct. 15.....	1,395	896	
Bulacan.....	May 1-Oct. 15.....	836	597	
Cavite.....	June 12-Oct. 1.....	8	6	
Ilocos Sur.....	Aug. 14-Oct. 15.....	104	76	
Mindoro.....	Aug. 21-Oct. 8.....	12	10	
Mountain.....	June 26-Aug. 20.....	5	4	
Nueva Ecija.....	June 26-Oct. 15.....	617	409	
Pampanga.....	Apr. 24-Oct. 1.....	286	264	
Pangasinan.....	Apr. 24-Oct. 8.....	3,911	3,015	
Rizal.....	June 12-Oct. 15.....	288	197	
Tarlac.....	May 8-Oct. 15.....	272	202	
Union.....	May 1-July 30.....	3	1	
Tayabas.....	Sept. 26-Oct. 15.....	41	26	
Roumania:				
Galatz.....	Sept. 16.....	1	1	An Italian seaman.
Tulcea.....	Oct. 5.....	1	1	
Russia.....				
Total for Russia May 8 to Nov. 18: Cases, 213,072; deaths, 99,075.				
Amolinsk. territory.....	Aug. 7-Oct. 22.....	706	425	
Amur, territory.....	Sept. 11-Oct. 22.....	117	81	
Archangel, government—				
Archangel.....	July 17-Oct. 15.....	4	3	
Astrakhan, government.....				
Astrakhan, government.....	July 3-Oct. 1.....	1,794	797	
Baku, government.....				
Baku.....	May 29-Oct. 1.....	1,086	576	
Baku.....	July 3-Oct. 22.....	1,013	417	
Batum, territory.....	Aug. 28-Oct. 1.....	14	7	
Bessarabia.....	June 5-Oct. 8.....	112	45	
Black Sea, province.....	July 3-Oct. 22.....	504	163	
Courland.....	Oct. 2-15.....	5		
Cronstadt.....	July 17-Oct. 15.....	230	122	
Daghestan, territory.....				
Daghestan, territory.....	July 17-Oct. 8.....	1,566	571	
Don, territory.....				
Don, territory.....	May 29-Oct. 22.....	20,921	2,191	
Rostov on the Don.....	June 19-Oct. 1.....	3,081	1,030	
Erivan, government.....				
Erivan, government.....	July 24-Oct. 22.....	1,068	546	
Estonia, government—				
Reval.....	July 24-30.....	1		
Ferganah.....				
Ferganah.....	Sept. 11-Oct. 22.....	90	59	
Finland.....				
Finland.....	Aug. 6-Sept. 24.....	3		
Kaluga, government.....				
Kaluga, government.....	July 17-Aug. 6.....	21	3	
Kars, territory.....				
Kars, territory.....	Aug. 7-Oct. 8.....	707	306	
Kharkov, government.....				
Kharkov, government.....	May 29-Oct. 8.....	2,638	1,104	
Khazan.....				
Khazan.....	June 26-Oct. 1.....	1,972	855	
Kherson, government.....				
Kherson, government.....	May 29-Oct. 22.....	8,839	4,769	
Odessa.....				
Odessa.....				June 18-20: Fatal case on s. s. Colenzo. * May 29-Oct. 28: Cases, 604; deaths, 340.
Kief, government.....				
Kief, government.....	May 20-Oct. 22.....	3,301	1,322	
Kostroma, government.....				
Kostroma, government.....	May 29-Oct. 8.....	1,880	757	
Koutais, government.....				
Koutais, government.....	Aug. 7-Oct. 1.....	407	286	
Kuban, government.....				
Kuban, government.....	May 29-Oct. 22.....	49,603	10,276	
Kursk, government.....				
Kursk, government.....	June 26-Oct. 22.....	5,373	2,116	

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

Reports Received from June 25 to December 9, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Livonia, government.....	Aug. 28-Oct. 15...	51	34	
Riga.....	Aug. 1-Sept. 24...	27		
Minsk, government.....	May 29-Oct. 1.....	503	168	
Mohilev, government.....	May 15-Oct. 22.....	228	101	
Moscow, government.....	July 24-Oct. 22.....	188	84	
Moscow.....	July 10-30.....	10	5	
Nikolajev.....	Aug. 28-Oct. 22.....	38	19	
Nischni Novgorod, govern- ment.....	July 3-Oct. 22.....	1,797	798	
Novgorod, government.....	July 17-Oct. 8.....	14	6	
Olonetz, government.....	Aug. 14-Oct. 22.....	26	8	
Orel, government.....	Mar. 30-Oct. 8.....	452	173	
Orenburg, government.....	July 17-Oct. 22.....	2,908	1,478	
Orlov.....	July 3-9.....	22	8	
Podolia, government.....	July 3-Oct. 22.....	1,108	448	
Pensa, government.....	July 10-Aug. 13.....	401	138	
Perm, government.....	July 17-Sept. 30.....	684	231	
Poltava, government.....	May 29-Oct. 8.....	2,955	1,210	
Pskov, government.....	Aug. 14-Oct. 1.....	6	1	
Rjasan, government.....	July 3-Oct. 22.....	2,022	856	
St. Petersburg, government.....	July 10-Oct. 22.....	577	318	
St. Petersburg.....	June 19-Oct. 22.....	4,190	1,671	
Samara, government.....	June 19-Oct. 22.....	10,172	4,633	
Sarapul, government.....	July 17-Sept. 24.....	1,048	556	
Saratov, government.....	June 19-Oct. 22.....	6,009	2,509	
Semipalatinsk, territory.....	Sept. 4-Oct. 1.....	15	6	
Siberia, eastern part.....	Oct. 16-22.....	196	76	Vladivostok. Nov. 5, present.
Simbirsk, government.....	June 19-Oct. 22.....	3,476	1,715	
Smolensk.....	July 24-Oct. 22.....	77	34	
Stavropol, government.....	July 26-Oct. 22.....	3,903	1,883	
Syr Darya.....	July 24-Oct. 22.....	146	90	
Tambov, government.....	June 19-Oct. 22.....	4,152	2,021	
Taurida, government.....	May 29-Oct. 22.....	4,070	2,004	
Kertsch.....	May 29-Oct. 1.....	490	223	
Sebastopol.....	June 19-Sept. 10.....	44	24	Present.
Theodosia.....	June 19-25.....			
Terek, territory.....	June 19-Oct. 22.....	1,257	656	
Tiflis, government.....	July 17-Oct. 22.....	1,604	596	
Tiflis.....	June 19-July 16.....	113	41	
Techernigov, government.....	May 29-Oct. 22.....	1,216	448	
Tobolsk, government.....	Aug. 7-Oct. 22.....	146	74	
Tomsk, government.....	Aug. 14-Oct. 22.....	328	132	
Transbaikal, territory.....	Sept. 4-Oct. 22.....	26	20	
Transcasplan, territory.....	July 3-Oct. 22.....	64	27	
Transcaucasia—				
Tschernomorsk, dis- trict—				
Novorossysk.....	June 19-July 3.....	7	6	
Tula, government.....	July 10-Aug. 27.....	34	10	
Turgai, territory.....	July 24-Oct. 8.....	96	49	
Tver, government.....	July 24-Oct. 22.....	33	9	
Ufa, government.....	July 10-Sept. 10.....	588	361	
Ural, territory.....	Aug. 14-Oct. 1.....	177	115	
Vitebsk, government.....	May 29-Oct. 22.....	297	130	
Veronesch, government.....	May 29-Oct. 22.....	4,565	2,140	
Viatka.....	July 24-Oct. 22.....	305	160	
Vladimir, government.....	July 24-Oct. 1.....	25	16	
Volhynia, government.....	July 3-Sept. 10.....	47	25	
Vologda, government.....	Aug. 14-Oct. 22.....	195	114	
Warsaw, district.....	Aug. 25-Sept. 2.....	25	28	
Yaroslavl, government.....	July 24-Oct. 15.....	1,134	606	Sept. 22, still present.
Yaroslavl.....	July 10-23.....	25	13	
Yekaterinslav, govern- ment.....	May 29-Oct. 22.....	14,857	6,875	
Yelisavetpol.....	Aug. 7-Oct. 8.....	120	87	
Servia:				
Belgrade.....	Oct. 7-22.....	6	1	
Siam:				
Bangkok.....	May 4-Oct. 8.....	888	881	
Straits Settlements:				
Singapore.....	May 8-Oct. 8.....	116	111	
Tripoli:				
Tripoli.....	Oct. 3-Nov. 12.....	257	170	
Turkey:				
Adrianople.....	Nov. 7.....			Present.
Constantinople.....	Sept. 13-Oct. 31.....	109	65	In vicinity, Sept. 27-Oct. 23; cases 200; deaths 93, among troops. On s. s. Garb, 30 cases and 14 deaths.
Saloniki.....	Nov. 18.....	1	1	

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

Reports Received from June 25 to December 9, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia:				
Bagdad, vilayet.....	Oct. 6-30.....	390	325	
Basra.....	Sept. 25-Oct. 25.....	14	10	
Belrut.....	Oct. 30-Nov. 5.....	7	3	
Erzerum, vilayet.....	Aug. 22-Oct. 26.....	573	391	
Irakil.....	Sept. 25-Oct. 1.....	1	1	
Samsoun.....	Sept. 18-24.....	1		
Smyna.....	Nov. 21.....			Present.
Tidrik.....	Sept. 18-24.....	1		
Trebizond.....	Sept. 10-Oct. 30.....	527	292	And vicinity.
Zongouldak.....	Oct. 17-30.....	77	39	Do.

YELLOW FEVER.

Brazil:				
Bahia.....	Apr. 30-Aug. 26.....	16	12	
Manaos.....	May 30-Oct. 29.....	50	50	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 1 was landed at Liverpool convalescent.
Para.....	May 30-Oct. 29.....	180	120	July 25: One death on s. s. Augustine, en route from Para to Lisbon, 2 days previous to arrival at Madeira.
Pernambuco.....	May 16-21.....		1	
Costa Rica:				
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.
Ecuador:				
Siquires.....	July 31.....	1	1	
Babahoyo.....	Sept. 1-15.....	1		
Duran.....	Aug. 16-Sept. 30.....	2		
Guayaquil.....	May 16-Oct. 15.....	75	33	
Milagro.....	Aug. 16-31.....	2	1	Present Sept. 19.
Gold Coast:				
Sekondi.....	May 1-27.....	8	8	
Great Britain:				
Liverpool.....	Oct. 14.....	1		See remark opposite Manaos.
Hawaii:				
Honolulu.....	Nov. 5.....	1		From s. s. Hongkong Maru, from Empalme, Mexico, via Callao, Chilean ports, Salina Cruz, and Manzanillo.
Mexico:				
Campeche.....	Sept. 25-Nov. 12.....	10	7	
Sierra Leone:				
Freetown.....	May 1-Sept. 30.....	8	8	
Sherboro.....	May 20.....			Present.
Venezuela:				
Caracas.....	Sept. 17-Nov. 12.....	3	1	
La Guaira.....	June 16-30.....		1	Dec. 3, present.
Puerto Cabello.....	Oct. 12.....			Present.
Valencia.....	Oct. 14.....	3	1	

PLAGUE.

Arabia:				
Aden.....	Oct. 9-25.....	5	4	Oct. 22-25, 3 cases, 2 deaths from s. s. Himalaya from London to Bombay.
Argentina:				
Rosario.....	Feb. 1-28.....	1	1	
Tucuman.....	Feb. 26-May 31.....	37	16	
Brazil:				
Bahia.....	Apr. 30-Sept. 30.....	35	35	
Para.....	Sept. 19.....	1		
Pernambuco.....	Apr. 1-Oct. 4.....	6	5	
Rio de Janeiro.....	June 5-Oct. 30.....	6	2	

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

Reports Received from June 25 to December 9, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile, general	Jan. 1—May 31	104	35	
Iquique	May 8—Sept. 4	38	13	
Mejillones	Apr. 27			Present.
Plasagua	Apr. 1—May 31	14	4	
Taltal	Apr. 1—27	12		
China:				
Amoy	July 3—Sept. 24		11	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 Cheln, Feng-chow-so, Taipushien, and Tsai-tang-shi.
Chang-pu district	June 11			Epidemic.
Ching-chew district	June 11			Do.
Hankow	May 15—28	5	3	
Hongkong	May 8—Aug. 27	20	18	
Swatow	June 1—July 11			Present in vicinity.
Ecuador:				
Babahoyo	Sept. 1—Oct. 15	6	2	
Duran	Sept. 16—Oct. 15	2	2	
Guayaquil	May 16—Oct. 15	213	70	
Matilde, plantation	Sept. 1—15	1		
Rocafuerte	Aug. 16—31	1		Sept. 15—1 case in hospital.
Egypt:				
Alexandria	May 24—Oct. 14	29	17	
Ismailia	June 19	1	1	
Port Said	June 14—Sept. 24	29	13	
Provinces—				
Assout	May 26—Nov. 10	49	17	
Assouan	Apr. 30—June 8	2	2	
Behera	Sept. 13—Nov. 10	4	1	
Beni Souef	May 27—June 29	8	5	
Dakalyieh	Aug. 16—26	3	2	
Galloobeeh	May 21—Sept. 9	9	2	
Garbieh	May 14—Oct. 21	68	23	
Fayoum	May 28—July 11	20	14	
Kena	May 27—June 18	24	22	
Menouf	May 24—Nov. 4	127	27	
Minieh	May 31—Sept. 12	27	11	
German East Africa:				
Lindi	Sept. 5	1	1	
Great Britain:				
London	Oct. 18—19	2	1	Case Oct. 18 from s. s. Oceana from Bombay; case Oct. 19 from s. s. Hindle from Bombay.
Suffolk County—				
Freston	Sept. 16—29	4	4	
Hawaii:				
Honolulu	July 5—12	2	2	
India:				
Bombay	May 18—Nov. 1		969	
Calcutta	May 1—Oct. 15		583	
Kurrachee	May 15—Oct. 29	585	381	
Madras	June 25—Oct. 7		2	
Rangoon	May 8—Oct. 15	446	443	
Bombay Presidency and Sind.	May 1—Oct. 22	16,820	11,712	
Madras Presidency	May 1—Oct. 22	1,677	1,365	
Bengal	May 1—Oct. 22	2,364	2,010	
United provinces	May 1—Oct. 22	8,437	7,362	
Punjab	May 1—Oct. 22	45,949	39,706	
Burma	May 1—Oct. 22	1,863	1,794	
Eastern Bengal and Assam.	June 12—July 9	48	45	
Central provinces, including Berar.	May 1—Oct. 22	6,103	4,104	
Mysore State	May 1—Oct. 22	3,793	2,551	
Hyderabad State	May 1—Oct. 22	2,142	1,797	
Central India	May 1—Oct. 22	2,195	1,781	
Rajputana and Ajmer-Merwara.	May 1—Oct. 22	12,889	10,881	
Kashmir	May 1—Oct. 22	84	68	
North West Province	June 12—18	3	3	
Grand total		104,367	85,181	

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

Reports Received from June 25 to December 9, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Saigon.....	Jan. 1-Oct. 23.....	116	49	
Japan:				
Formosa.....	May 8-June 18....	16	12	
Matsuyama.....	Nov. 5.....	16	.....
Osaka.....	May 1-June 25....	9	9	
Yokohama.....	Aug. 31.....	1	1	On s. s. Manchuria from Hong-kong.
Malta:				
Valetta.....	July 16.....	1	.....	In quarantine station on Comino Island, from s. s. North Wales.
Mauritius.....	Apr. 1-Sept. 1....	38	20	
New Zealand:				
Auckland.....	May 23.....	1	.....
Persia:				
Bouchir.....	Apr. 29-June 25..	51	40	
Peru:				
Arequipa Department.....	Mar. 1-31.....	16	8	
Mollendo.....	May 16-Aug. 23....	2	1	Oct. 18, 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, Oct. 1-31, cases 5; deaths 4. Oct. 1-31, 4 cases from Peruvian transport Chalaco.
Lambayeque Department.....	Mar. 1-Aug. 31....	46	22	
Libertad Department.....	Mar. 1-Aug. 31....	83	44	Nov. 1, present.
Lima Department.....	Mar. 1-Aug. 31....	38	20	
Piura Department.....	Mar. 1-July 31....	6	3	
Paíta.....	Oct. 28.....	1	.....	On s. s. Guatemala from Callao to Panama.
Portugal:				
Lisbon.....	Oct. 24-Nov. 2....	7	1	First case repaired boilers on s. s. Africa from eastern Africa. Present.
Rhodes:				
Aplakia.....	May 22-28.....	.....	.....
Russia:				
Astrakhan government— Khirgiz Steppe.....	June 26-July 7....	13	12	In Kalmuk and Narinsk.
Moscow.....	Aug. 14-Sept. 3....	2	1	
Odessa.....	July 18-Nov. 19..	138	40	
Roksoliani.....	Nov. 11.....	2	.....
St. Petersburg.....	May 6-28.....	3	3	
Siam:				
Bangkok.....	Apr. 25-Sept. 10..	30	27	
Straits Settlements:				
Singapore.....	May 8-28.....	3	3	
Trinidad:				
Port of Spain.....	May 15-July 14....	2	2	
Tunis:				
Tunis.....	June 30.....	5	3	
Turkey in Asia:				
Adalia.....	Oct. 6.....	2	.....
Basra.....	June 12-Aug. 13....	5	4	
Beirut.....	Aug. 1.....	1	.....
Lohela.....	May 1-24.....	25	27	And vicinity.
Venezuela:				
Caracas.....	July 30-Nov. 11....	13	11	Case, Nov. 9, in El Valle, suburb.
Zanzibar:				
Zanzibar.....	Sept. 2-14.....	3	3	

SMALLPOX.

Abyssinia:				
Adis Ababa.....	May 16-Nov. 15....	.....	.....	Present.
Arabia:				
Aden.....	Sept. 19-26.....	.....	1	
Maskat.....	July 19-23.....	1	.....
Argentina:				
Buenos Aires.....	Feb. 1-Aug. 31....	.....	447	
Mendoza, province.....	July 27.....	.....	.....	Epidemic.
Rosario.....	Apr. 1-July 31....	5	5	In February 1 case, 1 death.
San Juan, province.....	July 27.....	.....	.....	Epidemic.
Algeria:				
Bona.....	May 1-31.....	1	1	
Australia:				
Victoria, general.....	Apr. 3-19.....	1	1	
Austria-Hungary:				
Bukowina.....	July 10-16.....	1	.....
Galicia.....	May 29-July 23....	5	.....

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

Reports Received from June 25 to December 9, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Barbados.....	Aug. 16.....	1		From steamship Byron.
Belgium:				
Antwerp.....	July 24-Oct. 1.....	2	1	
Ghent.....	July 24-Sept. 10.....		2	
Brazil:				
Bahia.....	Apr. 30-Sept. 30.....	390	291	
Campinas.....	July 17-23.....		1	
Mansos.....	Aug. 6-Sept. 8.....			Present.
Para.....	May 29-Nov. 12.....	78	22	
Pernambuco.....	Mar. 16-June 30.....		331	
Rio de Janeiro.....	Apr. 18-Oct. 30.....	51		
Santos.....	May 22-Aug. 16.....		12	
Sao Paulo.....	June 12-25.....		4	
Canada:				
British Columbia—				
Fernie.....	June 12-25.....	4		
Vancouver.....	May 1-31.....	2		
Victoria.....	Aug. 21-Oct. 8.....	5		
Manitoba—				
Dauphin.....	Sept. 15.....			Do.
Winnipeg.....	June 19-25.....	1		
New Brunswick—				
Newcastle.....	Nov. 6-26.....	5		
Nova Scotia—				
Halifax.....	June 14-Nov. 19.....	26		
Pictou.....	June 12-July 23.....	9	1	
Sydney.....	July 3-Nov. 26.....	25		
Ontario—				
Kingston.....	Oct. 3.....			Present in vicinity.
Ottawa.....	Nov. 13-19.....	1		
Toronto.....	June 5-Sept. 17.....	13		
Ceylon:				
Colombo.....	June 26-Oct. 29.....	30	9	
Chile:				
Antofagasta.....	July 3-9.....	4		
Chilean.....	May 14.....			Epidemic.
Punta Arenas.....	Sept. 21-27.....	1		From a coaling vessel.
Santiago.....	June 19-25.....			Present.
Valparaiso.....	May 19-Nov. 5.....	537		Deaths not reported.
Victoria.....	May 14.....			Present.
China:				
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-Oct. 1.....			Present.
Hongkong.....	May 8-July 30.....	6	3	
Nanking.....	May 7-Nov. 5.....			Do.
Shanghai.....	May 22-Oct. 30.....	6	81	Cases among foreigners; deaths among natives. June 9—Three cases from U. S. cruiser New Orleans from Nanking.
Swatow.....	June-July 17.....			Present.
Tsingtau.....	June 12-18.....	2		
Cuba:				
Habana.....	Sept. 17.....	1		On s.s. Corcovado, from Corunna.
Egypt, general:				
Alexandria.....	Apr. 30-June 17.....	415	85	
Cairo.....	May 1-Aug. 31.....		13	
Suez.....	May 21-Nov. 4.....	12	5	
Suez.....	May 21-27.....	1		
France:				
Paris.....	May 29-Nov. 12.....	44		
Germany.....				Total for Germany May 29-Nov. 5, cases, 25.
Hamburg.....	June 5-11.....	1		
Gibraltar.....	June 20-Oct. 9.....	7	2	
Great Britain:				
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		
Hawaii:				
Hilo.....	Sept. 10.....	1		Sept. 10—One case on s. s. Wilhelmina, from San Francisco via Honolulu.
Honolulu.....	Nov. 14.....	1		From army transport Sheridan from San Francisco.
India:				
Bombay.....	May 18-Oct. 25.....		123	
Calcutta.....	July 10-Oct. 8.....		6	

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

Reports Received from June 25 to December 9, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India—Continued.				
Kurrachee	May 15-July 16	12	3	
Madras	May 14-Nov. 4		72	
Rangoon	May 8-Aug. 27		38	
Indo-China:				
Saigon	May 30-Oct. 16	203	108	
Italy				
Naples	May 30-Aug. 7	66		
Naples	May 30-Nov. 12	98	18	Total for Italy exclusive of Naples. June 26—One case from a. s. San Giovanni. One case, July 3 ^d on s. s. Pannonia.
Palermo	Sept. 25-Oct. 1	1		
Provaglio di Isco	Oct. 9-16	1		
Japan:				
Kobe	Oct. 10-21	2		
Formosa	May 22-Sept. 25		5	
Java:				
Batavia	May 22-Oct. 1	6		
Korea:				
Fusan	May 1-7	1		
Seoul	May 26-July 2	3	4	
Malta	May 22-Nov. 5	31	2	
Mexico:				
Aguascalientes	June 5-Nov. 19		43	
Chihuahua	Oct. 31-Nov. 6	1		
Guadalajara	June 11-July 2		6	
Mexico	May 15-Oct. 8		41	Oct. 9-22, cases 6.
San Luis Potosi	May 29-Oct. 8	13	9	
Veracruz	July 3-9	1		
Morocco:				
Tangier	Nov. 19			Present in foreign colony.
Netherlands:				
Rotterdam	Sept. 4-17		1	
Persia:				
Kerman	July 2			Present.
Teheran	May 1-Oct. 24		158	
Peru:				
Salaverry	Oct. 7-Nov. 1	4		
Philippine Islands				
				First quarter, 1910, cases 71; second quarter, 1910, cases 56.
Portugal:				
Lisbon	May 29-Nov. 12	1,016		Jan. 1-Oct. 8, deaths 222.
Russia:				
Libau	May 30-Nov. 13	147	10	
Moscow	May 22-Nov. 12	225	93	
Odesa	May 22-Nov. 5	55	13	
Riga	May 29-Nov. 5	491		Apr. 1-Aug. 31, deaths 478.
St. Petersburg	May 8-Nov. 5	568	192	
Warsaw	Mar. 6-Sept. 17		193	
Siam:				
Bangkok	Apr. 25-Sept. 10	4	4	
Siberia:				
Vladivostok	Apr. 22-Aug. 13	9	9	
Spain:				
Almeria	June 1-Aug. 31		3	
Barcelona	May 31-Oct. 9		19	
Cadiz	May 1-31		1	
Madrid	May 1-Oct. 31		18	
Seville	May 1-Oct. 31		8	
Valencia	June 19-July 23	6		
Vigo	June 12-Oct. 15		10	
Straits Settlements:				
Penang	May 29-Oct. 22	386	102	
Singapore	May 8-Oct. 24	253	98	
Switzerland:				
Thurgau, Canton	July 10-16	1		
Zurich, Canton	June 19-Nov. 5	13		
Tripoli:				
Tripoli	June 12-18	1		
Turkey:				
Constantinople	Aug. 22-28		1	
Turkey in Asia:				
Basra	June 5-Aug. 13			Present.
Beirut	Oct. 23-Nov. 5	12		
Uruguay:				
Montevideo	Apr. 1-Sept. 30	795	334	
San Jose	July 7			Do.
Zanzibar:				
Zanzibar	June 1-Oct. 23	183	88	

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.....	Nov. 19	185,703	52														
Asuncion, Paraguay.....	Oct. 15	72,000	33	3							1						
Do.....	Oct. 22		23	2							1						1
Barcelona.....	Nov. 20	591,272	265	27							8	1	3				
Belfast.....	Nov. 12	391,167	19	25							1	1	1	2			
Bombay.....	Nov. 8	977,822	602	51	12	1					1	1	3				
Bradford.....	Nov. 5	295,865	84	5							3						1
Do.....	Nov. 12		69	4							1						2
Do.....	Nov. 19		76	5								4					2
Birmingham.....	do.....	570,113	175	9							1	2	2	2			1
Bremen.....	Nov. 12	242,498	73	13							1	1	1				1
Do.....	Nov. 19		69	10							1	1	1				1
Bristol.....	do.....	382,550	89	10							1	1	1				1
Brussels.....	Nov. 5	562,895	182	18							4	4					
Do.....	Nov. 12	720,030	149	19							3						1
Calcutta.....	Oct. 22	847,796	395	16	7	25											
Chemnitz.....	Nov. 5	988,132	72	6													1
Christiana.....	Nov. 12	250,000	50	4									3		3		
Do.....	Nov. 19		58	6									1		1		
Coburg.....	Nov. 5	23,432	11	1									1	1	1		
Cologne.....	do.....	513,896	157	16							1		5		2		3
Copenhagen.....	do.....	455,000	130	11								2	1	1	1		1
Edinburgh.....	do.....	360,276	90	7								1	2	2	2		1
Erfurt.....	do.....	109,028	30	9									1	1			1
Frankfort on the Main.....	do.....	412,000	64	4									1	1	1		2
Ghent.....	Nov. 5	165,475	53	5													
Glasgow.....	Nov. 18	884,520	234	7							3	5	6	6			4
Do.....	Nov. 25		273								4	3	6	6			12
Gothenburg.....	Nov. 12	164,000	31	8								1					
Havre.....	do.....	132,430	64	10									2	1			
Do.....	Nov. 19		46	12									1				
Hull.....	do.....	280,006	98	2							2						1
Leith.....	Nov. 5	86,767	24	2									1				
Iqueque.....	Oct. 29	38,382		18								1					
Nov. 12			46	3									1	1			
Liege.....	Nov. 12	176,597	231	14									6	6	3		3
Liverpool.....	do.....	767,606	229	18							1	6	3	3	3		4
Do.....	Nov. 19		1,730	2							9	4	12	58			16
London.....	Nov. 5	7,537,196	2,115	2							5	9	20	94			10
Do.....	Nov. 19		15	2								1					1
Londonderry.....	do.....	43,477	167	26									1	1			2
Lyons.....	Oct. 29	500,000	34	1													
Manaos.....	Nov. 5	52,000	29	2			1										
Do.....	Nov. 12		30	2			1										
Madras.....	Oct. 21	550,000	338			8		2	2								
Do.....	Oct. 28		396			4		2	2		1						2
Do.....	Nov. 4		418			3		2	2		1						1
Manchester.....	Nov. 12	631,533	243	17							1	1	1	2			1
Do.....	Nov. 19		259								3	1	3	9			5
Mannheim.....	Nov. 12	197,690	5								1						
Maracaibo.....	Sept. 30	50,000	21	4							1			1			
Do.....	Oct. 21		18								1						
Maskat.....	Oct. 29	10,000				18											
Matanzas.....	Nov. 5	36,009	20	5									1				
Monterey.....	Nov. 13	100,000	39	3							1						
Do.....	Nov. 20		41	5							3						
Do.....	Nov. 27		42	2							2	1					
Montreal.....	Nov. 19	450,000	201	14							3	2	2	13			2
Do.....	Nov. 26		198	17							4	3	6	12			
Do.....	Dec. 3		163	12							2	2	6	7			3
Moscow.....	Oct. 22	1,500,000	677	88				19	7	7	19	33	1				2
Do.....	Nov. 5		661	68					7	8	20	26	6				
Do.....	Nov. 12		702	84				2	4	9	27	23	4				2
Munich.....	do.....	576,000	188	24													3
Do.....	Nov. 17		196	34									2	11			
Nagasaki.....	Nov. 13	176,970	27	5									1				
Nantes.....	do.....	161,900	49	11							1						
Nottingham.....	Nov. 12	260,000	78														1
Odessa.....	Nov. 6	546,000	188	22	1				3			15	14				

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	Dec. 3	86,000	25	1								2		
Palermo	Nov. 19	340,000	161	7		3				3	4			
Paris	Nov. 19	185,000	104	9			18						3	
Paris	Oct. 22	2,776,344	755	150						3		3	1	5
Penang	Oct. 22	103,582	99	11					25					
Plymouth	Nov. 12	124,180	29									2	1	
Port of Spain	Nov. 12	60,000	32	6						2				
Prague	Nov. 5	235,556	76	15						1	2			
Nagoya	Oct. 30	402,101	135							4		1		
Quebec	Nov. 19	85,000										1		
Do.	Dec. 5											1		
Rangoon	Oct. 15	252,155	142	8	3	1							1	
Do.	Oct. 29		155	7	3								1	
Rotterdam	Nov. 12	425,538	113					1						
Do.	Nov. 19		114							1				
St. John's, Newfoundland	Nov. 26	31,000								1				
Saigon	Oct. 23	206,000	10											
St. Petersburg	Oct. 29	1,678,000	685	112		29		10		5	19	10	6	7
Do.	Nov. 5		688	122		14		3		5	16	12	6	10
Do.	Nov. 12		652	104		5		7		1	12	15	6	6
Saloniki	Nov. 17	200,000				1								
San Louis Potosi	Oct. 22	82,749	66	9				1	3					
Do.	Nov. 5		50	4				1				1		
Santa Cruz de Teneriffe	Oct. 22	46,000	14							1		1		
Do.	Oct. 29		16							1		1		
Do.	Nov. 5		12	3						1		1		
Do.	Nov. 12		11	3						1		1		
Santiago de Cuba	do.	45,470	25	4									1	
Do.	Nov. 26		13	1						1		1		
Shanghai	Oct. 23	365,000	157	5				10						
Do.	Oct. 30		132	12	2			10				1		
Do.	Nov. 6		156	16	4			20				1		
Sheffield	Nov. 5	472,000	122	4								2	3	3
Do.	Nov. 12		135	4								2		
Singapore	Oct. 22		192	23				4		2				
Smyrna	Oct. 7	400,000	53	7							2			
Do.	Oct. 14		53	8						1	7			
Do.	Oct. 21		51	10						3	3	10	1	1
Do.	Oct. 28		43	16						3	3	5		
Southampton	Nov. 12	127,157	27	4						1			1	
Do.	Nov. 26	104,824	45	4							4	1		
Stettin	Oct. 29	241,000	87	5								2		1
Do.	Nov. 5		77	9							3			
Do.	Nov. 12		76	8							4			
Do.	Nov. 19		85	9								1		
Stockholm	Oct. 15	341,816	85	9						1	2	2	4	
Do.	Oct. 22		94	15						2	2	4		
Do.	Nov. 5		84	20						2	2	1		
Do.	Nov. 12		74	13						1	1	1		3
Stuttgart	Nov. 6	291,000	127	6							1			
Talcahuan	Oct. 1	28,000	2								1		1	
Do.	Oct. 8		2							1				
Do.	Oct. 15		1								1			2
Do.	Oct. 22									1	2			2
Do.	Oct. 29		3										1	2
Tarragona	Nov. 12	20,400	8							1				
Trieste	do.	223,521	94							1		2		
Turin	Nov. 17	391,988	138	13						9				
Valencia	Oct. 22	240,000	91	5						2		1		
Do.	Oct. 29		96	8								1		
Do.	Nov. 5		79	4						1		1		
Do.	Nov. 12		109	8						1		1		
Valletta	Nov. 5	215,879	84	6										
Valencia	Nov. 19	240,000	105	7						2		1		
Venice	Aug. 27	183,224	50	4						1		1		
Do.	Sept. 3		57	4						3		1		
Do.	Sept. 10		57	9						2				
Do.	Sept. 17		59	12						3				
Do.	Sept. 24		62	2								1		1
Do.	Oct. 1		54	7						2		1		

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.	Whoopingcough.			
Victoria.....	(Oct. 14	40,000	23	1						1							
	Oct. 29		586	70							6	8					1
Do.....	Nov. 5		597	86							1	1				6	1
Vienna.....	Oct. 29	2,130,320	586	70							6	8					1
Do.....	Nov. 5		597	86							1	1				6	1
Do.....	Nov. 12		554	78							4	11	2			4	5
Vigo.....	Oct. 15	40,000	14	2				1									
Do.....	Oct. 22		10	1							3	1					
Do.....	Oct. 29		12	3							2						
Vladivostok.....	Nov. 19		12							1							
Warsaw.....	Sept. 4	90,162	7	1						1		1					
Do.....	Sept. 3		781,179	251	27						3	10	6			2	4
Do.....	Sept. 10		254	33					4		4	27	3	3		2	2
Winnipeg.....	Sept. 17	135,000	322	28				2		5	20	8	2		5		5
Do.....	Oct. 29		21	3								3	2				
Do.....	Nov. 5		62									4	1				
Yarmouth.....	Oct. 15	6,700	8														
Do.....	Nov. 5																
Do.....	Nov. 12										2	1	1				
Yokohama.....	Nov. 7	407,432															
Do.....	Nov. 14										2	1	1				

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

CANADA—*Sherbrooke*.—Month of November, 1910. Population 15,300. Total number of deaths from all causes 26, including measles 1, diphtheria 2, tuberculosis 8.

Yukon Territory—*Dawson*.—Month of September, 1910. Population 5,000. Total number of deaths from all causes 3. No deaths from contagious diseases.

EGYPT—*Alexandria*.—Month of September, 1910. Population 420,000. Total number of deaths from all causes 1,101, including typhoid fever 11, diphtheria 10, plague 4, tuberculosis 64.

Month of October, 1910. Total number of deaths 891, including typhus fever 1, typhoid fever 11, diphtheria 12, plague 1, tuberculosis 60.

FRANCE—*Nice*.—Month of September, 1910. Population 150,881. Total number of deaths from all causes 192, including typhoid fever 3, tuberculosis 19.

GREAT BRITAIN.—Week ended November 5, 1910.

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

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 15.1 per 1,000 of the population, which

is estimated at 1,151,790. The lowest rate was recorded at Ballymena, viz, 4.8, and the highest at Newtownards, viz, 28.6 per 1,000 of the population.

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 Perth, viz, 8.4, and the highest at Dundee, viz, 16.6 per 1,000. The total number of deaths from all causes was 492, including typhoid fever 2, measles 1, scarlet fever 6, diphtheria 16.

INDIA—Rangoon.—Month of September, 1910. Population, 301,259. Total number of deaths from all causes 663, including typhoid fever 2, plague 27, cholera 3, tuberculosis 115.

ITALY—Milan.—November 1 to 14, 1910. Population, 900,000. Total number of deaths from all causes 75, including typhoid fever 8, measles 1, diphtheria 2, tuberculosis 64.

MARTINIQUE—Fort de France.—Two weeks ended November 19, 1910. Population, 27,069. Total number of deaths from all causes 31. No contagious diseases reported.

TURKS ISLANDS.—Month of November, 1910. Population, 1,800. Total number of deaths from all causes 3. No contagious diseases.

VENEZUELA—La Guaira.—Two weeks ended October 31, 1910. Population, 10,000. Total number of deaths from all causes 11, including tuberculosis 2.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon General,

United States Public Health and Marine-Hospital Service.