PUBLIC HEALTH REPORTS.

UNITED STATES.

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

Pathological conditions found in rats—Observations based upon examination of 50,000 rats in the laboratory of the Public Health and Marine-Hospital Service, San Francisco, Cal.ª

[By Passed Assistant Surgeon GEORGE W. MCCOY.]

In the systematic examination of rats for plague infection a number of interesting pathological conditions have been observed. Many of these have counterparts in human pathology and consequently they present no difficulty in diagnosis; others are conditions not comparable with any found in man.

Two of the animal parasites observed, *Trichinella spiralis* and *Hymenolepis diminuta*, are also parasitic for man, and the rat may be indirectly the source of human infection.

These notes are not a complete record of the conditions met with in rats here, but represent for the most part only lesions that are to be differentiated by the more or less cursory examination we have been able to make in the limited time available for this purpose. These observations are based upon the examination of about 50,000 rats that have been necropsied during the past four months.

ANIMAL PARASITES.

Trypanosomiasis.—In the examination of stained smear preparations for Bacillus pestis, trypanosomes have been occasionally observed. The infection is present in about 0.4 per cent of the rats examined. The parasite is probably Trypanosoma lewisi, the common trypanosome of rats. Passed Asst. Surg. B. J. Lloyd (California State Journal of Medicine, April, May, June, 1904) found this parasite in 25 per cent of a large number of rats examined during the previous plague campaign here. Only once has it appeared to cause lesions. This was in a Mus norvegicus found dead in our stock cage. All of the mesenteric glands were found to be much enlarged and markedly hemorrhagic. No explanation was to be found for this condition except the presence of a large number of trypanosomes in smears from these glands. Two white rats were inoculated intraperitoneally with an emulsion of the glands, but without success in the reproduction of the infection. Plague infection was definitely excluded in this case.

(Vol. xx111, No. 39.)

⁶ See Report on laboratory work in relation to the examination of rats for plague at San Francisco, Cal., Public Health Reports, July 24, 1908.

Trichinosis.—The parasite of this disease (Trichinella spiralis) is of very common occurrence in both Mus norvegicus and Mus rattus. We have encountered it here only in Mus norvegicus. An examination of the diaphragms of several hundred rats shows about 3 per cent to be infected with this parasite. We have depended on the naked-eye examination, aided by a hand lens, and when the muscle presented a suspicious appearance we have resorted to the microscope to determine the diagnosis. A number of diaphragms (about 70) were examined with the low power of the microscope in the absence of any macroscopic signs of infection, but the result did not justify the added labor. Very frequently the granular condition of the muscle is so well marked that the infection may be detected at a glance after one has become familiar with the appearance. It is quite likely that a higher percentage of infection would be found if every rat were subjected to a careful microscopical examination. Braun (Animal Parasites of Man, New York, 1906) states that in Boston 10 per cent of the rats have trichinosis, and that 8.3 per cent of a large number of rats collected in Saxony, Bavaria, Würtemberg, and Austria were infected. No excessive percentage of infection was found in rats from the slaughterhouse district of the city.

The well-known bladder worm of rats, *Trichosomum crassicaudum*, is very common. Probably 20 per cent of the rats examined are infected with this parasite.

A round worm is not infrequently encountered in the stomach. The organ is usually packed with the parasites, which vary in length from 2 to 10 centimeters. This parasite has not yet been identified.

The only intestinal parasite identified is a tapeworm, *Hymenolepis* diminuta. According to Stiles (Bull. No. 25, Hygienic Laboratory, U. S. Public Health and Marine-Hospital Service, Washington, D. C.) this is "a rare and probably accidental parasite of man; easily expelled."

Hymenolepis nana, a tapeworm which is parasitic for both man and rats, has not been encountered though a somewhat careful search has been made for it on several occasions.

The parasite most frequently met with has been identified by Passed Assistant Surgeon Goldberger, Public Health and Marine-Hospital Service, as *Cysticercus fasciolaris*, the cysticercus stage of the cat tapeworm, Taenia crassicollis. The cysticercus is found in the rat's liver, from one to a hundred or even more being found in an infected animal. In a series of 1,500 rats examined to ascertain the frequency of this parasite 6.4 per cent were found to be infected. The parasite within the cyst membrane is often 15 or 20 cm. in length, and it strikingly resembles a mature tapeworm. The cyst wall surrounding this parasite is of three distinct types. The common type is a thin, tough, translucent membrane. Another form is one in which the membrane is developed into a tough, fibrous tumor mass, with walls sometimes 5 cm. or more in thickness. At least some of these fibrous capsules show evidence of malignancy. In the third form, which is very rare, the cyst wall is represented by a tough, leathery, opaque yellowish membrane. Calcareous placques are often found embedded in this membrane. In this latter form the parasite is dead and appears to be mummified.

A very common lesion of the liver is one in which there is a fine, yellowish-white thread-like structure winding very tortuously through the tissue of the organ. The differentiation from liver tissue is very distinct and clear. Microscopical examination shows the thread to be made up of an enormous number of oval objects that we are disposed to consider the ova of a parasite. These objects are quite uniform in size (0.03 mm. by 0.06 mm.) and shape. The shell is quite thick and is transversely striated. At each end is a translucent pluglike mass projecting a trifle above the general contour of the body and also extending a little into the cavity. The interior is quite filled, except for a small space at the ends, with a granular substance, which may be entire or which is more frequently divided into several masses (from 2 to 7).

Scabies.—A very common condition is a more or less extensive cauliflower-like excressence on the ears of rats. This has been worked out by Acting Assistant Surgeon Wherry, Public Health and Marine-Hospital Service, as being due to the itch mite.

ORGANIC LESIONS.

The only lesion encountered connected with the circulatory apparatus was a case of extreme dilatation of the pericardium. The distended sac almost filled the entire cavity of the chest. The contents of the sac were a blood-stained fluid, and there was a large number of easily broken down adhesions connecting the visceral and parietal surfaces of the pericardium.

We have encountered only three conditions in the lung worthy of note. In the one, the lung contains well encapsulated masses of yellowish caseous material. These masses vary from the size of a pea to one replacing the whole lung. The condition is often bilateral.

The second condition is somewhat similar, but instead of being caseous, the contents of the capsule resemble the white of an egg with an admixture of purulent matter. This lesion has also been seen in our white rats. In the second condition the lesion is often multilocular. There are usually no pleural adhesions in either of the above conditions. It is astonishing how much of the lung may be replaced by these cystic formations. Rats have been seen in which certainly seven-eighths of the lung tissue had disappeared and its place been taken by these masses. No data as to the etiology of these conditions is at hand.

The third condition is much less frequent than either of the others. The lung presents areas of consolidation from mere points to those involving the half of a lung. No evidence of cavity formation has ever been seen. The appearance of this lesion strongly suggests the stage of gray hepatization of lobar pneumonia in man. The microscopical examination of one of these areas shows the air spaces of the lungs to be filled by an infiltration of mono-nuclear and poly-nuclear leucocytes. Even the smaller bronchi are entirely occluded.

Smears from each of the above conditions have been stained for tubercle bacilli, but always with a negative result. In view of the very filthy habits of the rat, one would expect to find tuberculosis very prevalent among them, but we have not seen a rat in which tubercular lesions could be demonstrated. The striking absence of any lesions that might be attributed to the tubercle bacillus led us to inoculate some rats with cultures of this organism. While it is not intended to discuss here this subject in detail, it may be said that of the 14 rats (*Mus norvegicus*) inoculated (7 with a bovine strain and 7 with a human strain) all were killed on the thirty-first day and only one presented at autopsy any lesion that could be regarded as probably due to the inoculation. In this case there was an abscess located between the liver and the diaphragm. It contained a thick, yellowish pus, and a moderate number of acid-fast bacilli were demonstrated in the contents; most of the bacilli, however, were larger than the average *Bacillus tuberculosis*.

The following lesions have been noted in connection with the digestive tract:

Hob-nail liver.—A lesion is occasionally found in which there is an accurate duplication of the gross and microscopic appearances of atrophic cirrhosis of the liver in man. The capsule of the organ is very much thickened and there is an enormous increase in the connective tissue surrounding the portal vein. The comparison to be complete should show ascites, but it has not been encountered in these cases. An enormous ascites is seen very rarely, but the cause has not been determined.

During this campaign against the rat much poisoning has been done with phosphorus and it is not surprising that many livers have been seen showing the macroscopic and microscopic signs of fatty degeneration. A few livers have been seen in which the fatty change was so far advanced as to cause the organ to float in water. The great majority of the cells have the protoplasm replaced almost entirely by fatty granules. In this connection it may be stated that the few cases of experimental phosphorus poisoning in rats that have been seen have not shown fatty degeneration. The rats have died within thirty-six hours from the time of eating the poison and have shown only a mild grade of gastro-intestinal inflammation. The tissues in these cases have not been submitted to microscopical examination.

A somewhat common lesion is one in which the liver is yellowish and granular, strongly resembling the appearance of the organ in plague infection. The spleen is enlarged and has many granules about the size of a mustard seed. This is the appearance we have seen in the organs of animals that have been fed for test purposes with the various biological products ("Ratin," "Ratite," etc.) designed to destroy rodents. It is probable that the similar condition seen in wild rats is due to the use of these agents.

A very rare condition of the liver is one in which the liver is studded with grayish, semigelatinous granules. These granules may be as small as the head of a pin or as large as a pea or even larger. The infiltration of the organ may be extreme, so that very little liver tissue may remain. Two cases have been carefully observed. One of these presented lesions in the spleen similar to those in the liver. Sections have shown an almost entire replacement of the liver tissue by an infiltration of large and small round cells and poly-nuclear cells. The appearance of the sections indicates that at least ninetenths of the liver structure has been replaced by this new tissue.

Several cases of intestinal hernia have been seen. In each case the bowel has been reducible. The capacity of the sac was about 5 cc. in each instance. One hernia of the spleen has been observed. The organ was surrounded by a purulent exudate and lay directly beneath the skin. The opening through the abdominal muscles was about 1 cm. in diameter and was situated about 2 cm. below the costal margin, and the same distance in front of the midaxillary line. Stout adhesions, which prevented any access of purulent matter to the abdominal cavity, were found at the neck of the sac. The spleen itself appeared to be normal.

The following lesions of the genito-urinary tract have been observed: Nephritis.—It was a matter of considerable surprise to note that a number of wild rats are the victims of marked, parenchymatous nephritis. The normal kidney of the rat is reddish brown and varies in size with the size of the rat. In the cases of nephritis the lesion is very apparent to the naked eye. The kidneys are larger than the size of the rat would lead one to expect, usually yellowish brown or slate colored, and are very friable, breaking down readily when pressure is made upon them. Cysts as large as a pea, or even much larger, are not rare, and small cysts up to about 1 mm. in diameter are very common in these cases of nephritis. The capsule usually strips readily.

This condition is found in about 60 per cent of the rats suffering from the leprosy-like disease to which reference is made below, but it is by no means rare in rats in general.

Microscopical examination shows the epithelium of the tubules to be largely desquamated. The nuclei of the cells are lost, or take the stain poorly. A few small cysts are seen scattered through the organ, and they may be quite numerous directly beneath the capsule. The process does not appear to affect the large collecting tubules, and the glomeruli are generally but little altered. In some areas there may be marked increase in connective tissue. It is a matter of surprise that an animal should live long enough for such an extreme disorganization as we have sometimes seen to take place. One might have been in doubt as to the origin of the tissue under examination but for the presence of fairly well-formed glomeruli.

In this connection, mention may be made of a rat that at first sight appeared to possess but one kidney, an organ that was normal in every respect. Close examination showed that the missing kidney was represented by a small, flattened mass of tissue which, upon microscopical examination, was found to present the following appearance: The glomeruli were about half the diameter of those in the normal organ. A few small cysts were seen. An occasional cellgrouping suggestive of tubuli was found and the remainder of the organ, which was by far the greater bulk, was made up of fibrous tissue. The capsule was much thickened. The ureter was reduced to a fine fibrous cord.

Vesical calculi.—Concretions in the bladder are not at all rare. The commonest form consists of small, dirty white, irregular, friable masses. Upon two occasions well-developed calculi were encountered. In one case 21 smooth, round stones, weighing a total of 3.8 grams, were found. The most remarkable case was that of a full-grown female *Mus norvegicus*, in which the bladder contained 6 stones weighing 7.8 grams, the largest one weighing 5 grams. In both of these cases a high degree of cystitis was evident to the naked eye.

Abscesses of the genital organs are occasionally encountered. In males they appear to spring from the seminal vesicles; in females they originate in the uterus or a higher part of the genital tract. In one case, just above its bifurcation, one division of the uterus was occluded by a caseous mass about the size of a pea. Above this point that division of the uterus was about 10 cm. long and uniformly dilated, the diameter being over 1 cm. This sac was filled with a thin, watery pus. Microscopical examination of the caseous mass and the contents of the sac threw no light upon the cause of the condition. The other division of the uterus contained 6 fetuses.

Tumors.—New growths are frequently encountered. Lipomata, fibromata, adenomata, sarcomata, and carcinomata are the types that have been identified. Four of the more interesting cases will be mentioned. Three were in full grown female rats; one in an adult male rat. The largest tumor we have seen was one situated in the groin. The shape was that of a flattened sphere, 6 cm. in its greatest diameter by 4 cm. in the shorter diameter. It was firm and tough, and in one part it contained a small purulent focus. The total weight of rat and tumor was 335 grams, of which the tumor represented 72 grams. The tumor was shown by microscopical examination to be a carcinoma.

The second case was one of the few uterine tumors encountered. Springing from the left branch of the uterus, just above the bifurcation, was a large spherical mass about 3 cm. in diameter. The mass was deep red in color, very friable, and was traversed by heavy bands of tissue. The diagnosis of sarcoma was made microscopically.

The most interesting tumor case encountered was one in which several large, hard tumors were found in the liver, with smaller nodules scattered throughout the belly cavity. The striking feature of the case was marked jaundice, visible even through the hair, but seen to be a most intense lemon yellow when the skin was reflected. A considerable mass of tumor tissue surrounded the common bile duct, thus accounting for the jaundice. Unfortunately, the tissue for microscopical examination was lost.

The fourth was a case in which one testicle was about four times the normal size. The organ was deep red in color, very friable, and upon section much blood escaped. Microscopical examination showed the tissue to be an angio-sarcoma.

Miscellaneous conditions.—A peculiar change in color of the hair has been observed in rats confined for several months in our stock cages. Large patches of the hair begin to grow light in color and close examination shows that many of the hairs have become quite white; others are whitened at the tip only.

A microscopical examination of these whitened hairs showed a tricophyton-like structure to be present. A similar structure was present in control preparations made from the hair of healthy rats. The cause of the condition is therefore as yet undetermined.

Subcutaneous abscesses in general and purulent conditions of the peripheral lymph glands are common. We were at one time inclined to regard the latter as possibly representing lesions of chronic plague, as described by the Indian Commission (Journal of Hygiene, vol. 7, No. 3). A considerable number have been submitted to the inoculation test, but always, thus far, with negative results.

Probably the most interesting lesion is the leprosy-like disease that has been described in Russia, Germany, Australia, and recently in San Francisco, where it was first observed by Acting Assistant Surgeon Wherry, Public Health and Marine-Hospital Service (Journal

American Medical Association, June 6, 1908). A special report on this disease has been submitted to the Surgeon-General (Public Health Reports, July 10, 1908, Vol. XXIII, No. 28). I am indebted to Passed Asst. Surgs. Carroll Fox and Richard

Creel for assistance in the histological work reported in these notes.

Identification of Fleas at San Francisco, Cal.

[By Passed Assistant Surgeon CARROLL FOX.]

In connection with plague suppressive measures in San Francisco, a routine examination has been made of fleas in the Federal laboratory since April 7, 1907. This work has been carried on in order to determine the different species of fleas and the predominant species infesting rats in San Francisco. Since July 1, 1908, an effort has been made to determine the species in relation to the number on individual rats. District officers have been ordered to bring the rats trapped alive to the district headquarters, where they are chloro-formed, and an immediate search is made for siphonaptera. The fleas from each rat are then put in 70 per cent alcohol in separate bottles and forwarded to the laboratory properly labeled with the date, host, and district.

In all, 7,022 specimens have been examined to July 31, 1908, including 1,271 fleas from man. The figures given in detail below show that the Ceratophyllus fasciatus is the common rat flea in this locality, while the Pulex cheopis follows, not a very close second, the proportion being about three to one. Most of the *Pulex cheopis* have come from districts 4, 6, and 12. Districts 4 and 6 are inside districts, while district 12 is on the water front. From districts 4 and 6 a Mus rattus is very rarely caught, showing that there is no relation between the Indian rat and the Indian rat flea. The number of fleas per rat varies greatly; many rats seem not to be infested at all, while from one rat 157 fleas were obtained. Not including the rat with 157 fleas, the average number of fleas per rat is 4.5.

It will be noticed that of the 1,271 fleas taken from man, not one was a cheopis and only 4 were Ceratophyllus fasciatus, the common rat flea here. The finding of these might be accounted for by the fact that they were taken by the rat catchers from their own persons.

	C. fas	ciatus.	P. ch	eopis.	P. irr	itans.		. mus- 1li.	. ^{C.e}	anis.	(T) ()
Host.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Total.
Mus norvegicus Mus ratius Mus musculus Homo sapiens	1, 343 23 4 0	2, 510 43 10 4	485 3 1 0	837 3 0 0	31 0 0 500	76 0 0 764	78 17 2 0	211 16 10 0	16 1 0 2	31 0 0 1	5, 618 106 27 1, 271
Total fleas examined to July 81, 1908	•••••			•••••			•••••				7,022

These figures do not include several hundred specimens obtained from other hosts, such as C. acutus and Hoplopsyllus anomalus from Cetellus Beecheyi; C. ignotus from Thomomys Bottæ, and several other species not yet identified.

Report from San Francisco, Cal.—Plague-prevention work.

Passed Assistant Surgeon Blue reports:

SAN FRANCISCO, CAL.

Week ended September 12.

Date of last case	Sickened, January 30, 1908
Sick inspected	
Dead inspected	
Premises inspected	12, 486
Houses disinfected	
Buildings condemned	
Houses destroyed	
Nuisances abated	
Rats found dead	
Rats trapped	
Total rats taken	
•	the second s
Rats identified :	
Mus norvegicus	
Mus rattus	
Mus musculus	
	·
Total	
•	
Rats examined bacteriologically	1,975
Poisons placed	

Outgoing quarantine transactions.

Passed Assistant Surgeon Hobdy reports:

Week ended September 5.

Vessels	fumigated and certified	20
Vessels	certified	69

Report from Seattle, Wash.—Plague-prevention work.

Passed Assistant Surgeon Glover reports:

Week ended September 12.

Date of finding of last plague rat, July 9, 1908.	
Rats received	1, 075
Rats necropsied	949
Plague-infected rats to date	20
Vessels inspected	8
Vessels fumigated	· 6

Report from Miami, Fla.—Dengue fever present.

Acting Assistant Surgeon Jackson reports, September 12: During the past week I have seen in Miami 4 cases of dengue fever. The cases presented all typical symptoms and had both primary and secondary rashes. Two of the number were in persons immune to yellow fever.

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

CALIFORNIA—San Diego.—Month of August, 1908. Estimated population, 40,000. Total number of deaths, 47, including measles 1, and 5 from tuberculosis. Cases: Measles 2, smallpox 1, and scarlet fever 1.

CONNECTICUT—Bridgeport.—Month of August, 1908. Estimated population, 100,000. Total number of deaths, 111, including enteric fever 2, and 11 from tuberculosis. Cases: Diphtheria 3, enteric fever 11, scarlet fever 1, and phthisis pulmonalis 5.

KANSAS.—Month of July, 1908. Reports to the State board of health show as follows: Diphtheria, 22 cases, 4 deaths; enteric fever, 137 cases, 22 deaths; measles, 9 cases, 1 death; scarlet fever, 30 cases, 2 deaths; smallpox, 61 cases, no deaths; tuberculosis, 56 cases, 48 deaths.

MINNESOTA—St. Paul.—Month of June, 1908. Estimated population, 220,000. Total number of deaths reported to the department of health, 127, including diphtheria 3, measles 2, whooping cough 2, and 12 from tuberculosis. Cases: Diphtheria 35, measles 15, scarlet fever 35, and smallpox 74.

Month of July, 1908. Total number of deaths reported to the department of health, 146, including diphtheria 1, scarlet fever 3, whooping cough 1, and 22 from tuberculosis. Cases: Diphtheria 22, measles 4, scarlet fever 18, and smallpox 44.

NEBRASKA—Lincoln.—Month of August, 1908. Estimated population, 60,000. Total number of deaths, 38, including enteric fever 1 and 3 from tuberculosis. Cases: Diphtheria 1 and scarlet fever 1.

NEW HAMPSHIRE—Franklin.—Month of August, 1908. Estimated population, 6,000. Total number of deaths, 5. Case: Tuberculosis 1.

NEW YORK—*Rome.*—Month of July,^a 1908. Estimated population, 18,500. Total number of deaths, 28, including 3 from tuberculosis. Cases: Tuberculosis 1, diphtheria 1, enteric fever 4, and scarlet fever 1.

NORTH CAROLINA.—Month of July, 1908. Estimated population, 1,893,810. Reports of State board of health from 76 counties show as follows: Measles in 11 counties, whooping cough in 30 counties, scarlet fever in 16 counties, diphtheria in 33 counties, enteric fever in 66 counties, malarial fever in 16 counties, pernicious malarial fever in 5 counties, hemorrhagic malarial fever in 4 counties, and smallpox in 4 counties, viz: Bladen, 1; Camden, 5; Cleveland, 2; and Pasquotank, several.

Reports for the month from 24 towns having an aggregate population of 251,100—white, 154,550; colored, 96,550—show a total of 361

^a Received out of regular order.

deaths—white, 157; colored, 204—including diphtheria 1, enteric fever 29, whooping cough 4, scarlet fever 1, measles 1, and 58 from phthisis pulmonalis.

OREGON—Portland.—Month of July, 1908. Estimated population, 225,000. Total number of deaths, 125, including diphtheria 1, enteric fever 2, whooping cough 1, and 12 from tuberculosis. Cases: Diphtheria 21, enteric fever 6, measles 6, scarlet fever 3, whooping cough 1, and smallpox 35.

PENNSYLVANIA—Homestead.—Month of August, 1908. Estimated population, 17,000. Total number of deaths, 25, including 1 from tuberculosis. Cases: Enteric fever 2, tuberculosis 1, and measles 4.

UTAH—Salt Lake City.—Month of August, 1908. Estimated population, 85,000. Total number of deaths from all causes, 75, including enteric fever 4, diphtheria 1, whooping cough 1, and 8 from tuberculosis. Cases: Diphtheria 14, whooping cough 35, measles 1, scarlet fever 3, tuberculosis 1, smallpox 3, and enteric fever 28.

VIRGINIA—Newport News.—Month of August, 1908. Estimated population, 28,749. Total number of deaths reported, 33, including enteric fever 4, whooping cough 1, and 2 from tuberculosis. Case: Scarlet fever 1.

Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, June 27 to September 25, 1908.

[For reports received from December 27, 1907, to June 26, 1908, see PUBLIC HEALTH REPORTS for June 26, 1908.]

Place. Date. Cases. Deaths. Remarks. Alabama: Jan. 5–June 18 June 7–Aug. 29.... 85 And vicinity. Huntsville Mobile..... 10 95 Total for State..... Arkansas: Texarkana Dec. 1-June 15 Present. California: Angel Island Quarantine Station. Jan. 1-May 18 5 additional cases. Report received out of date. July 18, 1 case on schr. Alumna. Report for June not received. June 7–July 4..... Apr. 1–July 31 May 1–July 31 Dec. 11–July 11 ... Los Angeles 6 16 Oakland..... Sacramento San Bernardino 54 Reported out of date. June 1-13, mainly on Pala In-dian Reservation. San Diego County June 1-Aug. 8 98 Escondido..... June 1-Aug. 3 June 1-Aug. 31 15 San Diego $\overline{25}$ San Francisco..... June 6-Sept. 12.. 51 July 1-81 Stockton 1 270 1 Total for State..... Delaware: Reedy Island Quarantine Aug. 9 Station. 1 From steamship Haverford. Total for State..... 1 **District of Columbia:** 8 Washington June 14-27...... Total for District 8

[Norg.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remai
aho:				
Carey	May 21-Aug4	21		
Total for State		· 21		
linois:				
Alexander County	May 1-31	3		
Carroll County	May 1-31	5		
Cass County	May 1-31	34		
Champaign County Christian County	May 1-31 May 1-81	3		
Clark County	May 1-31	11		
Cook County— Chicago	June 14-Aug. 1	10		
Harvey	May 1-31	i		
Dupage County	May 1-31	1		
Effingham County	May 1-31	1	• • • • • • • • • • • • •	
Iroquois County Jo Daviess County	May 1-31 May 1-31	3 1		
Kane County	May 1-31	37		
Macon County	May 1-81	5		
Macoupin County	May 1-31	5		
Marshall County	May 1-31	9	 .	
McLean County Mercer County	May 1-31 May 1-31	5	•••••	
Montgomery County	мау 1-31 Мау 1-81	7		
Morgan County	May 1-31	20		
Jacksonville	June 1-30	10		
Peoria County	May 1-31	12		
Saline County Sangamon County—	May 1-31	5	•••••	
Springfield	June 19-July 28	4		
Stevenson County	May 1-31	25		
Tazewell County	May 1-31	64		
Warren County Will County	May 1-31 May 1-31	6 1		
Joliet	May 1-81	19		
<u>-</u>				
Total for State	•••••	312		
diana:				
Allen County	Apr. 1-June 30	4		
Fort Wayne	June 21-Aug. 22	6		
Bartholomew County	Apr. 1-30	1 4	•••••	
Boone County Carroll County	Apr. 1–June 30 May 1–June 30	67	1	
Clark County	Apr. 1-June 30	34		
Jeffersonville	June 1–July 81	25	1	
Dearborn County	Apr. 1-June 30	5	••••	
Dekalb County	Apr. 1-June 30	15 23	•••••	
Delaware County Floyd County	Apr.1-June 30 June 1-30	1		
Fountain County	June 1-30	4		
Fulton County	Apr. 1-30	19		
Grant County	Apr. 1-June 30	55	•••••	
Hendricks County Howard County	Apr. 1–30 Apr. 1–30	1 15		
Huntington County	Apr. 1-30	38		
Jackson County	Apr. 1-June 30	4		
Jefferson County	June 1-30	6	•••••	
Johnson County	Apr. 1-80	9	•••••	
Knox County	Apr. 1-May 31 Apr. 1-30	31 2	•••••	
Lawrence County	Apr. 1-30	12		
Madison County	Apr. 1-30	4		
Marion County	Apr. 1-June 30	41		
Indianapolis	June 8-Sept. 18 Apr. 1-30	58 1	1	
Marshall County Miami County	Apr. 1-30	16	•••••	
Morgan County	Apr. 1-30	2		
Newton County	Apr. 1-30	2		
Noble County	Apr. 1-June 30	15	••••••	
Orange County	Apr. 1-30	1	•••••	
Owen County Park County	June 1-30	1		
Porter County	June 1-30	1		
St. Joseph County	June 1-30	6		
ou vooepa oo aatoj		12	· • • • • • • • • • •	
South Bend	June 29-Sept. 12		1	
Soott County	Tuno 1_90	2	·····i	
Soott County	June 1-30 Apr. 1-30 May 1-31	2 85 30 9	i	

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana-Continued.				
Tippecanoe County	. Apr. 1-May 81	.11		
Lafayette Tipton County	Apr 1_30	6		
Vanderburg County.	June 1-30	l î		
Wabash County Warrick County	June 1-30 Apr. 1-30 Apr. 1-30 Apr. 1-30 Apr. 1-30 May 1-June 30	14		
Warrick County	Apr. 1-30			
Wayne County Wells County	Apr. 1-30	15 1		
Vigo County	May 1-June 30	12		
Total for State		682	4	
wa, general	Ten 1 Inne 80	2,092		
Burlington Cedar Rapids	July 15	1		
Cedar Rapids	June 1-July 1	4		
Davenport	June 2-30	3		
Sioux City		1 8	•••••	
-				
Total for State	••••••	2,109		
ansas: Allen County	Apr. 1-June 30	27		
Anderson County	Apr. 1-30	6		
Atchison County	Apr. 1-July 81	70		
Atchison	Apr. 1-June 30 Apr. 1-30 Apr. 1-July 31 Apr. 1-May 81 June 1-30	29		
Barber County Barton County	Apr 1-30	16	•••••	
Bourbon County	Apr. 1-June 30	24		
Butler County	May 1-June 30	29		
Chase County Cherokee County	Apr. 1-30 Apr. 1-June 30 May 1-June 30 Apr. 1-June 30 Apr. 1-June 30 Apr. 1-30 May 1-31	.9	•••••	
Cheyenne County	Apr. 1-3 une 30	14 2	•••••	
Clay County	May 1-31	2		
Cloud County	May 1-31 May 1-June 30 Apr. 1-June 30	2		
Crawford County	Apr. 1–June 30	6 8		
Pittsburg Decatur County	Apr. 1-30 June 1-30	4		· · ·
Dickinson County	July 1–31 Apr. 1–30	2		•
Doniphan County	Apr. 1-30	3		
Douglas County Edwards County	Apr. 1-June 30 Apr. 1-May 31	33 8	•••••	
Ford County	May 1-June 30	2		-
Franklin County	May 1-June 30 Apr. 1-May 31	3		
Geary County	July 1-31	1	•••••	
Graham County Greenwood County	June 1-30 Apr. 1-June 30	2 11	•••••	
Hamilton County	Apr. 1-30	1	••••••	
Harper County	Apr. 1–June 30	9		
Harvey County	Apr. 1-30	14		
Hodgeman County	Apr. 1–80 Apr. 1–June 30	2 39	•••••	
Jackson County Jefferson County	Apr. 1–June 80	11	•••••	
Jewell County	May 1-31	8		
Kingman County	Apr. 1-July 81	26		
Labette County Parsons	Apr. 1–June 80 Apr. 1–July 81	24 47	•••••	
Leavenworth County	Apr. 1–June 30	62		
Leavenworth	May 1-31	8		
Lincoln County	Apr. 1-July 81	7		
Linn County Lyon County	Apr. 1–June 30	21 32	•••••	•
Marion County	June 1-July 81	3		
Marion County McPherson County	May 1-July 81	3		
Meade County	June 1-30	6		
Miami County Montgomery County	Apr. 1-30 Apr. 1-July 31	5 25		
Coffeyville	May 1-July 81	8		
Morris County	Apr. 1-30	14		
Nemaha County	Apr. 1-July 81	80 .	•••••	
Neosho County	Apr. 1-30 Apr. 1-May 31	2.		
Pawnee County	May 1_Inna 90	6		
Pottawatomie County	Apr. 1-July 81	15 .	•••••	
Pratt County	Apr. 1-July 31 May 1-July 31 Apr. 1-July 31	13 14	••••••	
Republic County	Apr. 1-may 81	14 17	••••••	
ROOKS County	Apr. 1-July 81 July 1-91 May 1-31	- 'í .		•
Rush County	May 1-31	6 .		
Saline County		11 .	•••••	
Sedgwick County	July 12-Sept 5	28 . 2 .	••••••	
Seward County	May 1-June 30	21 .		
Shawnee County	Apr. 1-July 81	84 .		•
onewhee county		17 .		

Place.				_	السر معدة
	Date.	Cases.	Deaths.	Remarks.	· · · · · · · · · · · · · · · · · · ·
Kansas-Continued.					
Smith County	Apr. 1-30	7			
Stevens County	Apr. 1–30	1			
Sumner County	Apr. 1-30	3			
Trego County Washington County	Apr. 1-30	22			
Wilson County	June 1-30	15			
Wilson County Wyandotte County	May 1-31	7			
Kansas City	June 8-Aug. 22	6			
Total for State		· 995			
Kentucky: Covington Lexington	June 21–Aug. 29 July 12–18	5 3		•	
Total for State		8			
Louisiana:					
New Orleans	-	20	1		
Total for State	••••••		1		
Maryland: Baltimore	July 5-11	1			
Total for State		1			
Massachusetts, general	Мау 1-31	1			
Total for State	•••••	1			
Michigan:					
Allegan County	May 1-31				
Bay County	May 1-31]		
Benzie County	May 1-31 May 1-31	1			
Berrien County	May 1-31 May 1-31	12			
Branch County	May 1-June 30	26			
Calhoun County Battle Creek	May 1-June 30	20			
Cass County	May 1-31	17			
Chippewa County	June 1-30	2			
Sault de Saint Marie	May 1-June 30	5			
Clare County	May 1-31	3			
Eaton County	June 1–30	4	1		
Emmet County	May 1-31	1 12			
Grand Traverse County Gratiot County	May 1-June 30 June 1-30	12			
Hillsdale County	May 1-June 30	ŝ			
Houghton County	May 1-June 30	31			
Huron County	May 1-June 30	18			
Ionia County	May 1-June 30	8			
Jackson County	May 1-June 30	10			
Kalamazoo County	May 1-31 June 1-30	5 9	•••••		
Kent County Lake County	May 1-31	8			
Lapeer County	May 1-June 30	2			•
Manistee County, Manistee	May 1-31	ī			
Mason County	May 1-June 30	4			
Midland County	May 1-31	1			
Missaukee County	May 1-31	6			
Montcalm County	May 1-31	3	•••••		
Muskegon County Newaygo County	May 1-31 May 1-June 30	38 7			
Oakland County	June 1-30	3			
Oceola County	June 1-30	ĭ			
Otsego County	June 1-30	8			
Saginaw County	May 1-30	30			
Saginaw	June 21-Sept. 5	7			
St. Clair County	May 1-June 30	16	·····;·]		
Port Huron	May 1-31	9	1		
St. Joseph County Shiawassee County	May 1-31	1			
Wayne County Detroit	July 4-Ang 1	2			
Wayne County, Detroit Wexford County	June 1-30 May 1-31 July 4-Aug. 1 May 1-June 30	21			
Total for State		377	2		
Minnesota:					
Aitkin County Anoka County	Apr. 1–June 15 Apr. 28–May 10	7 5			

Place.	Date.	Cases	. Deaths	. Remarks.
finnesota-Continued.				
Becker County	Apr. 28-June 15 Apr. 28-June 15	123		••
Benton County	Apr. 28–June 15	· 10		••
Bigstone County Blue Earth County		21		••
Brown County	Mar. 31-May 17	12		
Carver County	Apr. 28-June 8	19		
Cass County	June 1-8	1		••
Chippewa County Chisago County	Apr. 21–June 1 Apr. 14–June 8	8		••
Clay County	Apr. 28-June 8	18		-
Crow Wing County	Apr. 28-June 15	9		•
Dakota County	Apr. 28–June 8	8		-
Douglas County	June 9–15 May 4–June 8	2 18		-
Faribault County Fillmore County	May 4-17	10		-
Freeborn County	May 4-10	i		
Goodhue County	May 4-June 4	15		•
Hennepin County	Apr. 28-June 15	29		•
Minneapolis Houston County	June 1–July 31 Apr. 28–June 15	25 3		•
Hubbard County	Apr. 28-June 15	26		
Isanti County	Apr. 28-May 17	5		•
Itasca County	Apr. 7-June 15	20		•
Jackson County Kanabec County	Apr. 13–June 15 May 4–10	14 5		•i
Kandiyohi County	May 4-15	16		
Kittson County	Apr. 14-June 1	3		•
Koochiching County Lac qui Parle County	May 25–June 15	6		
Lac qui Parle County Lake County	May 4-June 15 May 27-June 15	6 12		•
Lesueur County	Apr. 28-June 15	13		•
Lincoln County	June 4-10	1		
Lyon County	May 4-10	2		•
McLeod County	May 24-June 8	3 5	····	•
Martin County Meeker County	Apr. 28-June 15 Apr. 28-June 8	24		•
Millelacs County	Apr. 28-June 15	4		
Morrison County	Apr. 28-June 15	16		•
Mower County	May 17-24	3		•
Nicollet County Nobles County	Apr. 28-June 1 Apr. 28-May 8	14 1	·····	•
Norman County	May 10-June 15	2	•••••	
Olmsted County	Apr. 28-June 15	11		
Ottertail County	Apr. 28-June 15	15		
Pine County	May 17-June 1	8 1	••••	
Pipestone County Polk County	June 1–8 Apr. 28–June 8	12	•••••	
Pope County	Apr. 28-May 3	-1		
Ramsey County	ADD. 25-JUNE 15	11		
St. Paul	May 1-31	49	• • • • • • • • • • •	
Red Lake County Redwood County	May 4–17 Apr. 28–June 15	4 13	•••••	
Renville County	May 10-15	4		
Rice County	May 10-15 Apr. 28-June 8	3		
Rock County	Apr. 28-June 8	3		
Roseau County St. Louis County	May 4-June 10 Apr. 28-June 15	2 9	•••••	
Duluth	Apr. 28-June 15	126	•••••••••••••	
Scott County	Apr. 28-June 15	147		· · · · ·
Sibley County	Apr. 27-June 8	6		
Steele County	Apr. 28-June 8 Apr. 28-June 8 Apr. 28-May 24	43 13	• • • • • • • • • • • •	
Stevens County	Apr. 28-May 24	10	•••••••••••	
Swift County	Apr. 28-June 8 Apr. 28-June 15	16		
Todd County	Apr. 28-June 15	45		
Wabasha County Washington County	Apr. 28-May 10 May 24-June 15	5 6	••••••	
Wilkin County	Apr. 28-June 8	5	•••••	
Winona County	May 4-June 15	4		
Winona	June 21-July 18	2		•
Wright County Yellow Medicine County	Apr. 29-June 15	33 8	••••••	
	-			
Total for State	=	1,159		
souri: Conway	Apr. 20-June 19	29		
Durham	Apr. 20-June 19 May 1-July 1			Present and in vicinity.
Kansas City	June 14-Aug. 8	6		-
La Belle Lewiston Monticello	May 1-July 1 May 1-July 1	7 18	•••••	And vicinity. Do.
		10		MU.

Smallpox in the United States, etc.—Continued.							
Place.	Date.	Cases.	Deaths.	Remarks.			
lizzouri-Continued.							
St. Joseph	June 7-Aug. 29	32					
St. Louís	June 14-20	1					
Total for State		94					
fontana:							
Beaverhead County	July 1-31	1					
Carbon County Cascade County	July 1-31 May 1-July 31	3 5					
Chouteau County	May 1-31	22					
Dawson County Deerlodge County	June 1-30	2					
Fergus County	May 1-July 31	9					
Flathead County	May 1-July 31	59 7					
Gallatin County Bozeman	June 1–July 31	80					
Lewis and Clark County	May 1-31	8		• • • • • • • • • • • • • • • • • • •			
Helena Meagher County	May 1_Inly 31	52					
Missoula County	May 1-July 31	7					
M 189011 8	May 1–June 30	3 1					
Park County Ravalli County Rosebud County	May 1-July 31	11					
Rosebud County	June 1-30	2					
Sanders County Silverbow County—	July 1-31	1	•••••				
Butte	June 1-Sept. 1	4					
Teton County	July 1–31 May 1–31	24					
Valley County	May 1-51						
Total for State		234					
ebraska:							
Friend	Apr. 13-June 18	13					
Lincoln South Omaha	Mar. 1-May 31	22 1	••••				
Total for State		36	<u></u>				
ew Jersey:							
Fort Hancock	July 30	1	•••••				
Total for State		1					
and Manha man and	Mam 1 Jula 91	110					
ew York, general New York	May 1-July 31 June 14-Sept. 12	2					
Niagara Falls	June 14-20	1	•••••				
Schenectady	June 1-30	2					
Total for State	•••••	115	••••				
orth Carolina:							
Anson County	May 1-31	30	• • • • • • • • • • •				
Bladen County Cabarrus County	July 1–31 Apr. 1–May 31	1 38	•••••				
Camden County	Apr. 1-July 31	30					
Caswell County Chatham County	June 1–30 Apr. 1–30	2	• • • • • • • • • • • •	Present.			
Chowan County	Apr. 1-May \$1	18					
Cleveland County	Apr. 1–July 31	10	• • • • • • • • • • • •				
Davie County Forsyth County	Apr. 1-80 Apr. 1-80	4					
Gates County	Apr. 1-30	3					
Guilford County Greensboro	Apr. 1-30 Aug. 12-22	6	•••••	•			
Johnston County	Apr. 1-June 30	47					
Mecklenburg County— Charlotte	June 14-Aug. 15		•••••				
New Hanover County	Apr. 1-May 31	6					
Orange County	Apr. 1-May 81	3		-			
Pasquotank Richmond County	July 1-31 May 1-June 30	2		Do.			
Rowan County	Apr. 1-May 31	26					
Rutherford County	Apr. 1-30	12	••••••				
Wayne County Yadkin County	Apr. 1-30 Apr. 1-30	52					
	-						
Total for State		246					
hio, general	Apr. 25-June 13	200					
Centon	June 7-18	1	1				
Canton Cincinnati	June 7-18 June 20-Sept. 11	1 9 17					

Place.	Date.	Cases.	Deaths.	Remarks.
Ohio—Continued. Springfield Toledo Troy Zanesville	July 12–18 June 14–Aug. 16 Apr. 15–July 3 Aug. 1–31	1 12 28 1		
Total for State		269		
Oregon: Portland	Aug. 1-31	181		Report for June not received.
Total for State		181		heport for the hot too too
Pennsylvania: Philadelphia	Aug. 30-Sept. 4	1		
Total for State		1	·	
Bhode Island: Pawtucket	June 12-29	1		
Total for State		1		
South Carolina: General	Jan. 1–June 30	170	1	
Total for State	••••••	170	1	
Fennessee: Knoxville Livingston Nashville	June 21–July 25 June 18–Apr. 11 June 14–20	2 9 1	1	
Total for State	Julie 14-20	1 12	1	
Fort Worth Sen Antonio	May 1-31 June 14-Sept. 5	9 10		
Total for State		19		
Jtah: Cache County Carbon County Davis County Salt Lake County	May 1-81 June 1-80 May 1-July 81	2 1 3		
Salt Lake City Unitah County Utah County Weber County	May 1-Aug. 31 July 1-31 May 1-July 81 May 1-June 80	32 1 14 21	1	
Total for State		74	1	
ermont: Whiting	May 5	1		
Total for State	•••••••	1		
'irginia: Alexandria Waynesboro	June 25-27 June 1-July 81	13 20		
Total for State		33		
Spokane	May 1-July 31 June 7-Aug. 29 June 8-Aug. 2	36 66 1		
Total for State		106		
/est Virginia: Charleston	Aug. 1–31 June 17–July 2	2		
Total for State	• uno 1/-v uly 2	3		

Smallpox	in	the	United	States,	etc.—	Continued.
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Place.	Date.	Cases.	Deaths.	Remarks.
W-condin.			1	
Visconsin: Adams County	Apr. 1-June 30	1		
Ashland County	Apr. 1–June 30	8		
Barron County	Apr. 1–June 80	10		
Bayfield County	Apr. 1–June 30	8		
Brown County	Apr. 1-June 30	Ĭ		
Buffalo County	Apr. 1-June 30	6		
Calumet County	Apr. 1-June 30	5		
Chippewa County	Apr. 1-June 30	50		
Clark County	Apr. 1-June 30	7	1	
Crawford County	Apr. 1-June 30	7		
Dane County	Apr. 1-June 30	8		
Dodge County	Apr. 1-June 30	37		
Door County	Apr. 1-June 30	17		
Douglas County	Apr. 1–June 30	82		
Dunn County	Apr. 1–June 30	11		
Fond du Lac County	Apr. 1–June 30	3		
Green County	Apr. 1-June 30	8		
Jackson County	Apr. 1–June 30	10		
Jefferson County	Apr. 1–June 30	8		
Juneau County	Apr. 1-June 30	6		
Kewaunee County	Apr. 1-June 30	10		
La Crosse County—			· ·	
La Crosse	June 16-Sept. 5	71		
Manitowoc County	Apr. 1–June 30	27		
Manitowoc	Aug. 2-8	1		
Marathon County	Apr. 1–June 30	10		
Marinette County	Apr. 1-June 30	23 9		
Milwaukee County	Apr. 1-June 30			
Milwaukee	June 14-Sept. 12	26 4	1	•
Monroe County	Apr. 1–June 30 Apr. 1–June 30	5		
Oconto County	Apr. 1-June 30	6		
Ontagamie County	Apr. 1-June 30	28		
Ozaukee County Pepin County	Apr. 1–June 30	1		
Pierce County	Apr. 1-June 30	18		
Polk County	Apr. 1-June 30	10		
Portage County	Apr. 1-June 30	ĭ		
Rock County	Apr. 1-June 30	6	1	
Rusk County	Apr. 1–June 30	š	-	
St. Croix County	Apr. 1–June 30	8		
Sauk County	Apr. 1–June 30	ž		
Sheboygan County	Apr. 1-June 30	28		
Taylor County	Apr. 1-June 30	10		
Trempealeau County	Apr. 1-June 30	i		
Vernon County	Apr. 1-June 30	3		
Vilas County	Apr. 1-June 30	1		
Walworth County	Apr. 1-June 30	3		
Washburn County	Apr. 1-June 30	4		
Waukesha County	Apr 1-June 30	11		
Waupaca County.	Apr. 1-June 30	3		
Winnebago County	Apr. 1-June 30	6		
Wood County	Apr. 1-June 30	44		
Total for State		666	2	
Grand total, United States		8,321	13	

Plague in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, July 15-September 25, 1908.

Place.	Date.	Cases.	Deaths.	Remarks.
California: Alameda County— Oakland. Contra Costa County— Concord Prenois Valley Los Angeles County— Los Angeles	July 21 July 15 July 24 August 11	1 1 1 1	1 1 1	10 miles from Martinez.

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

[For smallpox and plague, see special tables.]

	Week	Popula- tion,	Total deaths		ber- osis.		teric ver.	Sca fev		Di the	iph- ri a .	Mea	sl es.		ng ng
cities. ended Stat		United States census, 1900.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Caace.	Deaths.	Cases.	Deaths.	Caller.	Deaths.	Cases.	Deatha.
Altoona, Pa Ann Arbor, Mich.		38, 973 14, 509	13 8		1	6 1	2 1	2		2					
Do Baltimore, Md Beaver Falls, N.Y.	Sept. 5	14,509	6			116		7		22		1	l''i'	i	
Beaver Falls, N.Y.	sept. 12	508,957 10,054	190	15	21	116	11		1			2 2			
Biddeford, Me	do	16,145 38,647	9		2		· ····							••••	
Boston. Mass	do	560, 892	12 223	63	21	31	8	26		47	6	19	3	8	
sradford, Pa	do	15,029	2		1	···	····					·····	••••	••••	
ambridge. Mass	do	40,063 91,886	11 27	24	12	22		11		6				2	
amden, N. J	do	75, 935	29			25		5		3			••••	••••	
amden, S. C.	do	2,441 13,536	04	1		111							••••	••••	
Charlotte, N. C	do	18,091	10	• • • •		7		1							···
helsea, Mass	do	\$4,072	556	1		1 39	··•;-	5 70	1.10	54	12	6		16	•••
Beaver Falls, N. Y. Biddeford, Me Binghamton, N. Y. Boston, Mass Brockton, Mass Brockton, Mass Brockton, Mass Jamden, N. J Jamden, N. J Jarbondale, Pa Tharlotte, N. C Thelsea, Mass Thicago, Ill Chicopee, Mass Chicninati, Ohio Jeveland, Ohio	do	1, 698, 575 19, 167	556 6	28 	66 1	2	5	2	10	1			••••	16 	
incinnati, Ohio	Sept. 11	325,902 381,786 13,667	103	9	9	7		2		6	1	1		2	
leveland, Ohio	do Sent 12	381,786	129 8	26 	11	15	1	12		6		7	1	18	
olumbus, Ga	do	17.014	2		1		1								
ovington, Ky	do	42,938	18 7	• • • •	12	••••	1		····	13			••••	3	
Davton. Ohio	do	85, 333	24	••••	í	2		1						···:	
Incinnati, Onio. Eleveland, Ohio Binton, Mass Junton, Kg Sarville, Ill Bayton, Ohio Detroit, Mich Junkirk, N. Y Emira, N. Y Do	do	42, 938 16, 354 85, 333 285, 704	132						1	12	1				
unkirk, N. Y	00	11.010	5 21	••••	••••	2	1	1	••••		···;·		••••	10 1	•••
rie, Pa	Sept. 5	35, 672 52, 733 52, 783	18	ï	1	4		5		$\overline{2}$		· · · · ·			
		52,783	8	····· 4	1	1 5	$\frac{1}{1}$	1		• • • •	••••	1	••••	1	•••
vansville, Ind Do	aSept. 5	59,007 59,007	14 18	2	ï	5	1								
Do	Sept. 12	59,007	12			3	1	1		• • • •		•••••	••••	••••	
verett, Mass	0D	24, 336 17, 613	73	1	1	4 2		2	·	••••	••••	 1	••••		
indlay, Ohio ort Wayne, Ind	Sept. 8	50, 947	12		3	2									
alesburg, Ill	Sept. 12 Sept. 11	18,607 37,789	3 10	···:- 2	••••	••••	····· 2	1	····	1	••••	·····	••••	••••	•••
lens Falls, N.Y.	Sept. 11 Sept. 12	12,613	2			2									
loucester, Mass	do	26, 121	8	••••		••••	••••			··;·	••••	•••••	••••	··;·	•••
r. Rapids, Mich. Do	Sept. 5 Sept. 12	87,565 87,565	26 24	••••	2 2	5 8	••••	3 2	••••	3	····	1 1			
larrison. N. J	do	10,596	3				••••							••••	•••
laverhill, Mass loboken, N.J	00	37, 175 59, 364	14	4	3	1	••••	····i	••••	• • • •	••••		••••	····2	•••
lyde Park, Mass.	do	13, 244	1	2		1				2					
ndianapolis, Ind.	Sept. 13	169, 164		••••	10	17	1	4		15	3	1 5	••••	••••	•••
acksonville, Fla. ersey City, N. J.	Sept. 12 Sept. 6	28, 429 206, 433			5	ï	$\frac{1}{3}$	5	ï		····	5		ï	•••
ohnstown, Pa	Sept. 12	35.936	15	4		4	3	•••••						••••	•••
alamazoo, Mich. ansasCity, Kans.	Sept. 5 Sept. 12	24, 404 51, 418	14 14	ï	···· 2	13	••••	····i	••••	···;· 2	••••	····i			
ansas City, Mo	do	163,752	46		6	ĭ	2	ī		4	1				•••
earny, N. J	do Sept. 5	10,896 24,535		••••	····· 2	••••	••••		••••	••••	••••	•••••	••••	••••	•••
ingston, N.Y Do	Sept. 12	24,535	10		í										
a Crosse, Wis	do	28, 895	5	12	••••	2	••••		••••	1		•••••	••••	••••	•••
a Fayette, Ind	Sept. 14 Sept. 12	$18,116 \\ 62,559$	9 19		···i	4				2		1			•••
ebanon, Pa	do	17,628	8	5		1									•••
exington, Ky	do	26, 369 102, 479	14 59	4		$\frac{1}{2}$	···;·	5	••••	11		····i	••••	••••	•••
exington, Ky os Angeles, Cal owell, Mass	Sept. 12	94, 969	43	2	3	3	ĩ			3					•••
ymm, D10688	····uo ····	68, 513	14	1	1	3	••••	3 1	····i	6 2	••••	•••••	••••	••••	•••
alden, Mass	do	33,664 56,987	10 25	3		6 6		1		4					•••
anitowoc, Wis	do	11,786	8	ĭ	2							•••••			•••
arlboro, Mass	Sept. 5 Sept. 12	13, 609 18, 609	2	••••	••••	••••	••••	•••••	••••	••••		•••••	••••		•••
assillon, Ohio	do	11,944	1.												
edford. Mass	do	18, 244	3	1	1	3	••••	1	••••	··;·	••••	•••••	•••• •	···· ·	•••
lelrose, Mass lobile, Ala	do Sept. 5	12,962 38,469	3 2 17 2 3			:::	·	1 4 1		8 1	:::			i	
oline, Ill	Sept. 13	17,248	2					<u>i</u>							•••
Iontclair, N. J!	Mont 19	13,962	3 .	- 1	- 1	11	!	11							

a Intervening week previously reported.

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

	Week	Popula- tion, United	Total deaths	cul	ber- osis.	Ent	teric ver.	Scal fev	rlet er.		ph- ria.	Мен	sles.	iı	loop ng lgh.
Citles.	week ended—	States census, 1900.	from all causes.	Cases.	Deaths.	Calses.	Deaths.	Causes.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Montgomery, Ala. Mt. Vernon, N. Y. Nanticoke, Pa Nashville, Tenn Newark, N.J New Padford	Sept. 11	30, 346	13							```					
Mt. Vernon, N. 1. Nanticoke, Pa	Sept. 12 Sept. 14	21, 228 12, 616	7 9	1	 1	'''i		1		5		1		••••	
Nashville, Tenn	Sept. 12	80,865	34		3 15	18 10	1	6		1				••••	
New Bedford,	do	246, 070			15	10		3		16	3			••••	1
Mass	do	63, 442	35			3	1	8	1						1 2
Newburyport, Mass	do	14, 478 278, 104	10					3							
New Orleans, La Newport, R. I	do Sept. 5	278, 104 22, 441	124	13	21	6 1	••••	10		11 4					
Do	Sept. 12	22,441	6		2					1					
New York N.Y.	do	33, 587 3, 437, 202	5 1,219	423	153	$1 \\ 182$	17	3 91	3	2 189	19	65	;·	5	···;
Newton, Mass New York, N. Y Niagara Falls,			1				[ľ		ł		1 .	Ŭ	
N. Y	do do	19,457 22,265	87		····	2 3	1		••••	8	2			••••	
North Adams,]	ľ											
Mass North a m pton,	do	24,200	4			5									••••
Mass Orange, N. J	do	18,643	7	1						<u>.</u> .	<u>-</u> -				
Orange, N.J Ottumwa, Iowa	do do	24, 141 18, 197	6 5	i		1 1	· ï	4		1	1				
Palmer, Mass	do	7,801	8			2	1								
Philadelphia, Pa . Do	Aug. 29 Sept. 5	1, 293, 697 1, 293, 697	389 392	83 111	46 58	102 107	5 10	16 17	2	47 49	67	10 5	2 1	15 12	1
Plainfield, N. J	do	15,369	6			7	1			•••••					
Do Portsmouth.Va	Sept. 12 Sept. 15	15,369 17,427	10 2	••••		12	••••	1		12	1				
Portsmouth, Va Providence, R. I Pacino Wis	Sept. 12	175, 597	8	16	6	7		22	••••	13	2				
Reading, Pa	do Sept. 14	29, 102 78, 961	18	7	···i	18	3	2		1				2	
Reading, Pa Richmond, Va Rock Island, Ill	Sept. 12	85,050	33	5	2 1	15	3	1		3				1	1
D0	Sept. 5 Sept. 12	19,493 19,493	52			2 1	2	3					1::::		
Saginaw, Mich St. Joseph, Mo	Sept. 5	42, 345 102, 979	10 20		 1	2	1			1				••••	
St. Louis, Mo	Sept. 12 Sept. 5	575.238	163	39	20	35		2		23	2	2			
San Antonio, Tex. Do	do Sept. 12	53, 321 58, 321		• • • •			 1			$\frac{1}{2}$					••••
San Francisco, Cal.	Sept. 5	242,782	105	14	10	10		4		5	ï	4		1	2
Scranton, Pa	Sept. 12	102,026	35 20		····· 3	12 4	1	5 1	2	5 2		·····i		• • • •	••••
Somerville, Mass South Bend, Ind	do	61, 643 35, 999	14	1	1					2					
Spokane, Wash	Sept. 5 Sept. 10	38, 848 34, 159	22 11	1	3	16	1	2		8	2	1		••••	••••
Springfield, Ill Springfield, Mass Springfield, Ohio	Sept. 12	62,059 38,253	21	1	2	10	2	$\tilde{2}$		3				2	
Springfield, Ohio	do do	38,253 12,068	9 5	£	2	6	••••	• • • • • •	••••	3	••••	•••••	••••	••••	••••
Steelton, Pa Tacoma, Wash Taunton, Mass	Sept. 6	37.714	12		1			1			1				
Taunton, Mass Titusville, Pa	Sept. 12 do	31, 036 8, 244	17 3	1	1	••••	••••	·····2						••••	
Toledo, Ohio	Aug. 29	131,822	44		1	4	1	1	1	6					
Do Topeka, Kans	Sept. 5	131,822 33,608	30 12	i	2 1	····· 3	2	1 1	2	3			••••	••••	
DO	Sept. 12	33, 608	15	 1	1			·····							1
Trenton, N.J Do	Aug. 29 Sept. 12	73, 307 73, 307		1		$\frac{1}{2}$		2	••••	12	••••	•••••			
Do Waltham, Mass Warren, Ohio	Sept. 12	23, 481	9		1	2		3		•••••	••••		••••		••••
	do Aug. 22	8,529 278,718	2 76		···;· 9	44	3	1		····· 4	···:	3	••••	15	····i
Do	Aug. 29	278, 718 278, 718 278, 718	96 106	••••	8	44	6	1		5	2	5	••••	12	ī
	Sept. 5 Sept. 12	278,718	106	80	8 13	36 39	5 5	8 1	••••	8 4	••••	3 1	••••	11 2	••••
Do Wheeling, W. Va Wichita, Kans Wilkinsburg, Pa Wilkinsburg, Pa	do	38, 878	10	••••		1	••••	5 1	••••	8	••••	•••••	••••	••••	••••
Wilkinsburg, Pa	Sept. 5 Sept. 14	24,671 11,886	5					1	••••	···· 2					
winnempore, ra	Sept. 12	28,757	10	••••	··;·	2	12	.4	••••	••••	••••	•••••	••••	••••	••••;
Wilmington, Del Do	Aug. 29 #Sept. 12	76, 508 76, 508	25 27		3 1		1			••••					
Winona, Minn Woburn, Mass	Sept. 5 Sept. 12	76, 508 19, 714 14, 254	4	 1	ī				••••	2				••••	••••
	CEDL 12 1	14, 204	3	5		2 1	···i								

a Intervening week previously reported.

FOREIGN AND INSULAR.

CURRENT QUARANTINE MEASURES.

[From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, Berlin, September 2, 1908.]

CHOLERA.

Belgium.—August 13. Vessels arriving from Russian ports of the Baltic Sea required to carry bills of health.

Bulgaria.—August 13 and 14. The Province of the Don, the Kherghis Steppe, the city of Nachitschewan, and the city and government of Charkow declared cholera infected. August 18. The cities of Nischni-Novgorod, Baku, and Tula declared cholera infected.

Egypt.—August 19. Cholera regulations in force against arrivals from Taganrog.

Persia.—August 19. Travelers from Russia subject to five days' quarantine. Vessels from Russian ports subject to detention of five days at Astara.

Roumania.—August 18. Measures of observation and inspection of arrivals from certain parts of Russia are extended to include the governments of Kasan and Pensa.

Russia.—August 9 and 15. The cities of Rostov and Nischni-Novgorod declared cholera infected. The cities of Hankau and Hanyang, in China, declared cholera infected.

PLAGUE.

Austria-Hungary.—Arrivals from Port of Spain and the Island of Trinidad subject to requirements of quarantine circular August 12, 1904, at Trieste.

Belgium.—August 13. Measures against the Island of Terceira extended to include all ports of the Azores.

British East Indies.—Bombay Presidency, July 23. Pilgrim vessels allowed to take on pilgrims only at Bombay. Every pilgrim required to undergo medical inspection. The government of Bombay will hereafter maintain a station at Perim during every pilgrim season, at which pilgrim vessels may be quarantined if necessary.

Roumania.—August 24. Travelers from the Khirghis Steppe of the Russian government of Astrachan are admitted only at Costanza and Sulina, and by land routes at Ungheni and Prutuli, and are subject to medical oversight. The admission of groups of pilgrims, laborers, and tramps is forbidden; also the admission of fresh food products.

Sweden.—August 14. The ports of Canton, Swatow, and Amoy, in China, and the city of Valparaiso are declared plague infected. San Francisco is declared free of plague.

Turkey.—August 18. Arrivals from all Russian ports of the Black Sea between Batoom and Sulina, inclusive, shall be subject at the lazaretto of Sinope or that of Kavak to medical inspection with disinfection of effects of passengers of the third class and crew.

Arrivals from Rostov, Taganrog, Noworssynsk, and Batoom subject to 5 days' quarantine with disinfection at the lazaretto of Sinope. Travelers from those ports shall be subject to 5 days' observation at their places of destination.

Food products and articles of clothing or merchandise which are susceptible to infection are forbidden importation into Turkey from Russia.

Russian vessels from the Black Sea carrying a large number of passengers shall be subject at the lazaretto of Sinope to 5 days' quarantine with disinfection and measures of rat destruction. This quarantine shall begin with the time of transshipment of the passengers and crew and the disinfection of their effects.

Pilgrim ships and others from Russian ports of the Black Sea which carry more than one pilgrim to every 100 tons registered shall be subject to the same measures; when the period of quarantine is concluded said vessels shall pass the Straits of the Dardanelles or the Bosphorus in contumacy and repair direct to the lazaretto of Abou-Saad (Jiddah) or to that of Sinope, Kavak, or the lazarettoes of Smyrna and Beirut, there to take on coal and water and pilgrims.

ALGERIA.

Deratization in ports.

The following is taken from the *Bulletin Sanitaire Bimensuelle*, Algiers, August 16:

Algiers.—July 1 to 15, 1908: Rodents taken by the maritime sanitary service, 710; examined by the laboratory of health, 77; result negative. Classification of rats: Mus norvegicus, 548; rattus, 146; alexandrinus, 7; musculus, 9.

Bône.—July 17-30, 1908: Rodents taken, 633; examined, 68; result negative.

Oran.—Month of July, 1908: Rodents examined, 143.

Philippeville.—Month of July, 1908: Rodents taken, 27; examined, 7; result negative.

AUSTRIA.

Plague at Trieste.

The following is received from the Department of State, under date of September 21:

Consul at Trieste, Austria, cables as follows: "Plague, 1 dead, 1 sick."

BARBADOS.

Report from Bridgetown—Inspection and fumigation of vessels— Sanitary conditions.

Acting Assistant Surgeon Urquhart reports:

Week ended September 5. Bills of health issued to 11 vessels; fumigated, 3; total number of passengers, 228; members of crews, 519.

The Orinoco to New York via the Spanish Main, and the Justin, Norse Prince, and Boniface were fumigated.

Sanitary conditions remain good, no quarantinable diseases being reported for the week for the port or island.

BRITISH HONDURAS.

Report from Belize, fruit port.

Acting Assistant Surgeon Mengis reports:

Week ended September 10. Present officially estimated population, 10,000. General sanitary condition of this port and the surrounding country during the week, very good.

Bills of health issued to the following-named vessels:

Dat	e.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept.	4	Belize	Mobile	19	4	3
	4	Preston	New Orleans	37	17	22
	5	Frutera	New York via Central American ports.	26	0	0
	8	Fred W. Homans	Tampa, Fla	5	0	0
	8	Hermia	New York	22	1	0

CHINA.

Report from Hankau—Status of cholera.

Vice-Consul-General Pontius reports, August 5:

No new cases of cholera have appeared among the foreign population of this port during the last 10 days. In all there were 10 cases and 7 deaths among foreigners, two of whom were Japanese.

The total deaths in Wuchang, Hanyang, and Hankau amount to more than 1,500, and cholera is still epidemic in those districts. The military encampment at Wuchang has suffered severely from the epidemic, 100 cases having been reported.

COLOMBIA.

Report from Barranguilla—Sanitary conditions.

Consul Eberhardt reports, August 25:

The declared death rate at Barranquilla for the years 1906 and 1907 was, respectively, 27+ and 22+ per thousand. The population of Barranquilla is estimated at from 40,000 to 50,000. An adequate sewer system is lacking throughout the city. No systematic attempt whatever is made for proper drainage, the sewage from the homes of the better classes being diverted usually into underground cesspools, a very short distance from the houses, while the poorer classes make no attempt at disposing of such filth further than to have it conveyed by small drains to the nearest street or possibly into the back yard. No provision is made for draining this deposit from the streets. Rains are infrequent during the greater part of the year. The streets are unpaved and usually ankle deep with sand, which absorbs much of the moisture. The extreme heat causes quick evaporation. Standing water or sewage is rarely seen on the streets for any length of time. The hordes of mongrel dogs and buzzards, which constitute a very practical and helpful scavenger force, also do much to help bring about this condition.

I am informed that water-closets, cesspools, etc., are by law required to be disinfected at frequent intervals, but so far as I can learn there is no system of ascertaining whether or not these requirements are observed. The dumping ground at the edge of the city, where all refuse, dead animals, etc., are supposed to be burned, is not always made use of.

Mosquitoes exist in great numbers, but they are much less in evidence in the homes situated in the upper part of the city than in those of the low-lying districts adjacent to the river.

Rains, while not of frequent occurrence even during what is known as the rainy season, are apt to be more or less like a cloudburst when they do occur. At such times the cross streets become streams of from 1 to 3 feet in depth in many places, sand being washed over the walks and tracks. The Magdalena River receives all this water, and at the same time furnishes the water supply for Barranquilla, the water being pumped into a large reservoir, from which it is piped to all parts of the city into the homes of the better classes, while the poorer classes procure their supply from stations at street corners in various parts of the city.

The average temperature, in the shade, during the year is 85° F., and, as is the case in most tropical countries, a great amount of all kinds of native fruits is eaten by the inhabitants, the poorer classes being largely dependent upon such articles as a means of existence. The common diseases are malarial, tropical, and intestinal fevers, dysentery, and diarrhea. The death rate among infants is appalling, nearly 53 per cent of the deaths of a recent week, taken as an example, having been among infants of less than 1 year of age.

Of the quarantinable diseases I am informed that typhus fever is very rarely encountered. Cases of leprosy are not infrequent, but they are always immediately taken in charge and the patients sent to Caño de Loro, a leper colony near Cartagena. Yellow fever has not appeared in epidemic form since 1905. Only two known cases appeared in Barranquilla during 1907, and in each case the patient was immediately isolated and recovered. The older inhabitants tell of experiences and fix dates "from the time of the cholera," but that was many years ago and no cases have appeared since then. Bubonic plague has never been known here, and not only the health authorities, but the greater number of the citizens, realizing fully the grave danger and menace its entrance and existence would constitute for the public health and business interests of Barranquilla, are determined to spare no efforts to prevent such a condition being brought about.

The very strictest quarantine is being enforced between this port, Trinidad, and La Guaira, and no vessels from either of the ports named have been received for months, though recently a number that had merely taken on mail at those ports attempted to enter here and were refused admittance.

COSTA RICA.

Report from Limon, fruit port.

Acting Assistant Surgeon Goodman reports:

Week ended September 5. Estimated population, 6,000. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Aug. 30 31 Sept. 2 2 4	San Jose Prinz Aug. Wilhelm. Birchton Cartago Reventazon	Port Inglis New Orleans	45 131 25 86 55	12 106 0 4 5	0 11 0 61 0

One bill of health for Panaman port viséed, and certificates issued to 37 passengers bound for Colon.

CUBA.

Report from Cienfuegos—Inspection and fumigation of vessels.

Acting Assistant Surgeon Villoldo reports, September 7:

Week ended September 5.

Bills of health issued	4
Vessels inspected prior to departure	1
Vessels not inspected prior to departure	
Members of crews inspected	
Members of crews not inspected	97

The Norwegian steamship *Ole Bull*, bound for a port in the United States via Habana, which arrived at this port with cattle from Cartagena, Colombia, was fumigated by the Cuban authorities.

No quarantinable diseases have been reported during the week and the general health conditions are satisfactory.

Report from Habana—Inspection and fumigation of vessels—History of yellow fever cases previously reported—Measures to prevent spread—Increase of Stegomyia mosquitoes.

Passed Assistant Surgeon Amesse reports, September 14:

Week ended September 12.

Vessels inspected	10
Bills of health issued	14
Members of crews of outgoing vessels inspected	794
Passengers of outgoing vessels inspected	585
Certificates of immunity to yellow fever issued	20
Certificates issued to passengers bound for New York	284
Certificates issued to passengers bound for southern ports	260
Vessels fumigated prior to sailing	3

Two new foci of yellow fever have appeared in Cuba during this period, the first, reported on September 8, at Antilla, on Nipe Bay, north coast of Oriente Province, and the second at Habana, discovered September 11, confirmed September 14.

The history of the Antilla case shows that a Spanish nonimmune left Habana August 16, proceeding directly to Antilla, where he fell ill on August 27. In the first three days of his sickness, constituting the danger period, he visited the neighboring towns of Felton and Mayari, continuing on to Santiago de Cuba, where he arrived in a serious condition on August 29, and was immediately taken to the civil hospital.

Death ensued on September 6, the autopsy disclosing characteristic lesions of the disease. A feature of great interest to sanitarians was noted in the study of this case, there appearing, among the usual phenomena, a number of white stools after the sixth day. The incidence of fatty stools in a suspicious case of fever has so often been considered a sign of sufficient importance to warrant a negative diagnosis that grave errors have doubtless frequently been made.

Investigations were made at Antilla as soon as possible and two recent suspicious deaths were discovered. A force of 200 men was detailed to carry out the usual antimosquito work, and the town was declared in quarantine, both land and marine.

The case in this city developed in the person of a Spanish nonimmune, age 22, two years in Cuba, and for the past month an employee in a canteen on San Pedro street, opposite the Machina, a district of Habana badly infested with *Stegomyia* and populated almost entirely by Spaniards, most of whom are not immune.

The boy was taken sick September 6, removing September 7 or 8 to a hotel, next door to the café. Here he remained, unattended, until September 11, when some friends called an ambulance and he was conveyed to Mercedes hospital.

The resident surgeon immediately directed he be sent to Las Animas, where he is now under treatment.

The case presents all the features of a severe attack of yellow fever, including the mucous hemorrhages and the black vomit. As in the Antilla case, diligent search has failed to reveal the original focus. For this reason, and also in view of the fact that the patient unquestionably infected numerous *Stegomyia* along the water front, rigid prophylactic measures have been instituted, including a census of the infected district and the determination of temperature twice daily of all nonimmunes employed there.

Unemployed laborers, of whom there are many, will be segregated to-day at Triscornia, where they will remain under observation five days. In the meantime the work of sulphur fumigation will be carried on vigorously.

To protect the troops at Camp Columbia, orders have been issued forbidding soldiers visiting Habana after 6 p. m.

Mosquitoes of the genus *Stegomyia* have increased in numbers enormously in the lower section of Habana during the past month. Among other breeding places found about the office of the Service was the bore of an old cannon partly buried in the pavement of the custom-house yard, a rowboat containing half a barrel of rain water, and the boxes of a number of new wagons recently landed from a steamship at the wharf.

Further relative to yellow fever case at Habana.

Doctor Amesse further reports:

September 21. Case taken sick morning September 7, spent first two days wandering about in immediate neighborhood, next two days in Four Nations hotel; taken to Mercedes hospital September 11; transferred at once to Las Animas (hospital), where he arrived at 4 in the afternoon September 11. Fumigation of district began Sep-tember 12 and was completed the second time on September 20, neighboring blocks being disinfected this week as precautionary measure; prophylactic work has been carried out with great care and thoroughness.

Report from Matanzas—Inspection and fumigation of vessels.

Acting Assistant Surgeon Nuñez reports, September 14: Week ended September 12. During this period bills of health were issued to 4 vessels clearing for United States ports. One was fumigated. One health and acclimation certificate and 2 certificates of nonexposure to yellow fever infection were granted to passengers bound for New York via Habana.

No quarantinable diseases have been reported in this district.

Reports from Santiago-Inspection of vessels-Fumigation of vessels to destroy mosquitoes—History of yellow fever case previously reported.

Acting Assistant Surgeon Wilson reports, September 8:

Week ended September 5. Bills of health issued to 6 vessels bound for the United States and its dependencies. Two vessels fumigated before departure to kill mosquitoes.

No quarantinable disease reported in this city during the week.

The mosquito work for the week is as follows: Houses inspected, 6,483; houses in which larvæ were found, 16.

The following is a report of the case of yellow fever that died September 6. [See Public Health Reports, September 11, 1908, page 13101:

Spaniard; age 20; arrived August 23 at Antilla from Habana: left Antilla August 26 for Felton, where he was taken sick August 27; he left Felton August 29 and went to Mayari; late the same night he arrived at Santiago by train and was admitted to the hospital; he died September 6. The autopsy was made the next morning and confirmed the diagnosis.

At Daiguiri and Firmesa all the sanitary force has been withdrawn except 2 inspectors and a small number of men for mosquito work.

GERMANY.

Report from Berlin-Cholera in Galicia.

The following is received from Consul-General Thackara, under date of September 8:

According to a dispatch dated September 8, cholera has spread from Russian Poland to Galicia, a province of Austria-Hungary. In

Ostrowo, up to the present date there have been registered 76 cases of cholera with 39 deaths.

GUATEMALA.

Report from Puerto Barrios, fruit port.

Acting Assistant Surgeon Wailes reports: Week ended September 8. Present officially estimated population, 250. General sanitary condition of this port and the surrounding country during the week, good. The railroad company has commenced sanitary work.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disin- fected.
Sept. 3 5 6 9	Belize Ravelston Frutera Ellis	18 25 26 39	3 1 2 30	· · · · · · · · · · · · · · · · · · ·	

HAWAII.

Report from Honolulu-Examination of rats for plague infection.

Passed Assistant Surgeon Currie reports, August 29, through Chief Quarantine Officer Cofer:

Week ended August 29.

Rats trapped in Honolulu	338
Rats found dead in Honolulu	
Rats shot from trees in Honolulu1	118
Total number of rats taken ?	
Rats examined bacteriologically	302
Rats showing plague infection	

CLASSIFICATION OF BATS TAKEN.

Mus rattus	220
Mus norvegicus	81
Mus alexandrinus	145
Mus musculus	494
Total rats classified	940
Of those shot from treees (rats having arboreal habits) 22 cent were <i>Mus rattus</i> and 78 per cent <i>Mus alexandrinus</i> .	per

HONDURAS.

Report from Ceiba, fruit port—Stegomyia calopus numerous— Yellow fever.

Acting Assistant Surgeon Jumel reports: Week ended September 8. Present officially estimated population, 6,500. General sanitary condition of this port and the surrounding country during the week, good. Local sanitary conditions improved. Stegomyia calopus numerous.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passen- gers from this port.	Number of passen- gers in transit.	Pieces of baggage disin- fected.
Sept. 4	Orleanian.	31	2	0	0
4	Joseph Vaccaro.	34	8	2	0
6	Habil	14	0	0	0
7	Colombia	19	0	0	0

Doctor Jumel further reports, September 24, the appearance of yellow fever at Ceiba.

Report from Puerto Cortez, fruit port-Stegomyia calopus present.

Acting Assistant Surgeon Ames reports:

Week ended September 5. Present officially estimated population, about 2,400. General sanitary condition of this port and the surrounding country, very good. *Stegomyia calopus* present.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Aug. 30	Alabama.	Mobile	18	5	0
Sept. 2	Mercator.	New Orleans	17	6	0
3	Preston	do	37	7	0
5	Helen.	Mobile	18	5	0

Report from Tela, fruit port.

Acting Assistant Surgeon Roe reports:

Week ended September 5. Present officially estimated population, about 1,250. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Aug. 30 Sept. 5 8 5	Viator. Colombia. Orleanian Habil.	New Orleans Mobile New Orleansdo	17 19 31 14	0 0 0 0	0 0 0 0

INDIA.

Reports from Calcutta—Transactions of Service—Cholera, plague, and smallpox—Plague in India and Bengal.

Acting Assistant Surgeon Eakins reports, August 30:

Week ended August 15. A bill of health was issued to the steamship Ardmount, bound for Galveston, with a total crew of 25. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and the Asiatics' effects disinfected.

Week ended August 8. There were 8 deaths from cholera, 12 from plague and 3 from smallpox in Calcutta.

In Bengal there were 15 cases of plague with 13 deaths.

In India there were 907 cases of plague with 626 deaths.

Plague in Burma in July, 1908-Death rate of cities in Bengal in 1907.

Doctor Eakins further reports:

There was an increased number of plague cases in Burma during the month of July. There are reported 746 new cases and 699 deaths during the month as compared with 587 cases and 542 deaths for the month of June. In Rangoon itself there were 182 cases and 174 deaths as opposed to 172 and 162 for June. In the Bhamo district (upper Burma) there were 30 cases and 22 deaths, while in June there were but 4 and 4. Four districts of upper Burma exclusive of Rangoon, and 10 districts of lower Burma are infected.

According to the report of the sanitary commissioner of Bengal for 1907, there were 25 towns which recorded a death rate of over 44 per thousand. Chatra heads the list with a mortality of 95.95. Roserha and Gya give 81.89 and 81.50, respectively. Twelve towns had a death rate of over 50 per thousand, the rural areas being even in excess of this, more than 130 of them having had over 44 per thousand, with Sujaganj recording a mortality of 118.14. Cholera was responsible for 205,702 deaths, the average for the 5 years 1902–1906 being 138,999; plague, 83,602; dysentery, 51,670, and smallpox, 29,066.

ITALY.

Reports from Naples—Inspection of vessels—Emigrants recommended for rejection—Smallpox in Naples—Smallpox in Italy.

Assistant Surgeon Wollenberg reports, August 31 and September 7:

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Aug. 28 29	Luisiana Cretic	New Yorkdo	4 3 2 374	100 95	580 520
	Total		806	195	1,100

Vessels inspected at Naples week ended August 29.

Rejections	recommended.
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Date.	Name of ship.	Tracho- ma.	Favus.	Suspect- ed tra- choma.	Suspect- ed favus.	Other causes.	Total.
Aug. 28 29	Luisiana Cretic			10 3	i		30 10
	Total	, 26		13	1		40

Vessels inspected at Naples and Palermo, week ended September 5.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	inspected	Pieces of baggage disin- fected.
Sept. 2 2	Slavonia Principe di Pie- monte.		226		420
3	Madonna Nord America Königin Luise		133 287 145	· 40 60 35	290 350 320
5	Taormina	Philadelphia	351	9 0	480
	Total		1,142	305	1,860

PALERMO.

Sept.		monte.	New York		72	16
	4	Nord America	do	<i>†</i> 44	70	85
		Total		101	142	51

Rejections recommended.

NAPLES.

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Date.	Name of ship.	Tra- choma.	Favus.	Sus- pected tra- choma.	Sus- pected favus.	Other causes.	Total.
Sept. 2 2 3 3 4 5	Slavonia. Principe di Piemonte Madonna Nord America. Kõnigin Luise Taormina	6 12 14		1 2 6 3 7		1 1 2 1	8 14 21 9 21
	Total	49		19		5	73
	PAI	LERMO.	•				

Sept. 3 4	Principe di Piemonte Nord America	5 3	 0	 ·····i	77
	Total	8	 5	 1	14

SMALLPOX IN NAPLES.

During the week ended August 30, 3 cases of smallpox with no deaths were reported at the health office of the municipality of Naples. From the date of the introduction of the disease, June 13, 1908, to the present time the total number of cases has been 84, with 7 deaths.

During the week ended September 6, 5 cases of smallpox with 1 death were reported at the health office of the municipality of Naples. From the date of the introduction of the disease, June 13, 1908, to the present time the total number of cases has been 89 with 8 deaths.

SMALLPOX IN ITALY.

Week ended August 30:

Cases: Castel d'Arzile (Bologna) 1, Foggia 1, Montoro Superiore (Avellino) 1, Naples 4, Procida 1, Casoria (Naples) 1, Pietrapertosa 1, Tricarico 1, Montemilone (Potenza) 1, Cinquefrondi 4, Giffone (Reggio Calabria) 42.

JAPAN.

Report from Yokohama—Summary of cholera, plague, and smallpox in Japan during the year 1907.

Passed Assistant Surgeon Cumming reports, August 24:

During the year 1907 cholera, plague, and smallpox were reported in Japan, exclusive of Formosa, as follows:

Cholera, 3,631 cases, 2,525 deaths; plague, 645 cases, 574 deaths; smallpox, 1,034 cases, 437 deaths.

MEXICO.

Report from City of Mexico-Yellow fever at Merida.

The following is received from Dr. Eduardo Liceaga, president of the Superior Board of Health:

September 12. Four new cases of yellow fever were registered in the city of Merida September 11.

September 15. A new case of yellow fever occurred September 14 in Merida.

September 17. One new case of yellow fever at Merida September 16.

Report from Progreso—Inspection of vessels—Yellow fever at Merida.

Acting Assistant Surgeon Harrison reports, September 5:

Period from August 29 to September 5. The general sanitary conditions remained unchanged here and in Merida, but in Merida August 31 there appeared another case of yellow fever in addition to that which appeared August 23. The latter case died in the lazaretto August 25. Both cases originated in the central part of Merida and within a very short distance of each other, and both had been residents for some time in the city.

Bills of health were issued to 4 steamships, with 196 persons in the crews and with 56 passengers, from this port.

Report from Tampico-Inspection of vessels-Sanitary conditions.

Acting Assistant Surgeon Stowe reports, September 8:

Week ended September 8.

Vessels inspected and passed	1
Bills of health issued Members of crews of outgoing vessels inspected	
Members of Crews of Outgoing Vessels inspected	

Sanitary condition of this port, good.

Report from Veracruz-New cases of yellow fever.

Acting Assistant Surgeon Jacobs reports: September 19. One new case yellow fever reported to-day. September 24. One new case yellow fever reported to-day.

PANAMA.

Report from Bocas del Toro, fruit port.

Acting Assistant Surgeon Osterhout reports:

Two weeks ended September 8. Present officially estimated population, 4,954. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected
Sept. 3 3 6	Fort Gaines Hispania Appomattox	Mobile New Orleansdo	22 20 46	1 0 5	0 0 0	. 0

PERU.

Report from Callao—Inspection and fumigation of vessels—Status of plague in Peru—Smallpox in Lima and Paita—Plague in Chilean ports.

Acting Assistant Surgeon Gutierrez reports, August 25:

Week ended August 15. Bills of health issued to 3 steamships and an American schooner with an aggregate personnel of 209 in the crews, 77 cabin and 44 steerage passengers. The 4 vessels were fumigated.

Week ended August 22. Bills of health issued to 2 vessels with an aggregate personnel of 108 in the crews, 90 cabin and 87 steerage passengers; both were fumigated.

The following is the last report on plague in Peru received from the Director de Salubridad Publica:

Locality.	Cases August 4.	New.	Recov- ered.	Died.	Remain- ing August 17.
Lima (city) Lima (country). Callao. Santa Eulalia. Trujillo (city). Trujillo (city). Trujillo (country). Chiclayo. Chepen. Ferrefasfe. La Huaca (Payta). Guadalupe.	<pre></pre>	{ 6 8 1 { 18 13 8 	} 5 } 7 2	3 1 5 6 1 1 1	14 2 1 37 2 5 1 4

Since my last report 3 cases of plague have occurred in Callao. One died. The two others were removed to the lazaretto.

Plague is increasing in Lima and places in the vicinity. In Lima rats have been found dead on several streets. In Chorrillos, a bathing place near Lima, several cases of plague have occurred. The municipalities of Lima and Chorrillos are adopting measures against the increase of plague.

During the past month no new case of plague has occurred in Salaverry, but in Trujillo and the Chicama Valley plague is on the increase.

There are at present 2 cases of smallpox in the lazaretto at Lima. There are many cases of smallpox in the districts near Paita, and in the port of Paita several cases have occurred.

Bills of health report plague in Chile as follows: Antofagasta, August 12, 3 cases; Iquique, August 17, 4 cases, with 3 deaths, and 9 cases in the lazarette; Arica, August 12, no cases reported.

PHILIPPINE ISLANDS.

Report from Manila—Cholera and smallpox—Statement of cholera in the provinces—Inspection of vessels.

Chief Quarantine Officer McClintic reports, August 14:

Week ended August 8. Thirteen cases of cholera with 13 deaths, and 4 cases of smallpox with 1 death, were reported for the city of Manila.

The following is an official list of the cases and deaths reported as occurring in the provinces during the week under report:

Province.	Cases.	Deaths.
Rizal	11	
Benguet Bulacan	1 13	
Ilocos Sur	294	198
Misamis. Nueva Ecija	154 21	4
Pampanga	14	18
Pangasinan	90	59
Farlac Union	29 90	22 80
loilo	176	. 105
Total	893	557

During the week consular bills of health were issued at the port of Manila as follows:

August 6, the British steamship *Taiyuan*, with 70 in the crew and with 70 passengers, en route from Hongkong to Zamboanga, was granted a supplemental bill of health.

August 6, the British steamship *Kaifong*, with 63 in the crew and with 5 passengers, en route from Hongkong and Haihow to Cebu and Iloilo, was granted a supplemental bill of health. The members of the crew were bathed, and their effects disinfected at Mariveles Quarantine Station.

108

PORTO RICO.

Report from Ponce—Transactions of service, month of August, 1908.

Acting Assistant Surgeon Ferrer-Torres reports, September 1, through Chief Quarantine Officer Foster:

Summary of transaction of service, month of August, 1908.

Vessels inspected Vessels in quarantine	16 3
Passengers inspected :	
Incoming	61
In transit	427
Passengers in guarantine	2
Immigrants inspected	14
Members of crews inspected	
Bills of health issued	
Pieces of baggage disinfected	

RUSSIA.

Reports from St. Petersburg-Statement of cholera in Russia.

The following is received from the American embassy under date of August 29:

The ministry for foreign affairs reports that during the period from August 8 to 17 there were 1,145 cases of cholera in Russia, of which 517 were fatal. The distribution was as follows:

	Cases.	Deaths.
Government of Astrakhan	329	148
Government of Saratov	64	133 41
Government of Nijni-Novgorod Government of Kazan		62 3
Government of Kostroma	1	
Territory of the Don	176	58
Prefecture of Rostov-on-Don.	142	- 62
City of Perm	2	2
City of Penza City of Ekaterinoslav	1	i i
City of Tiflis	1	1

The report further states that the Government of Astrakhan and the city of Taganrog are declared infected with cholera.

CHOLERA IN ST. PETERSBURG.

The following is received from the Department of State under date of September 11:

A cablegram from the American consul at St. Petersburg, Russia, dated September 10, reads as follows:

"Fifteen cases cholera yesterday."

ST. LUCIA ISLAND.

Reports from Castries—Solnitary conditions—Yellow fever at Fort de France, Martinique.

Acting Assistant Surgeon Maylie reports, August 31 and September 5:

Week ended August 29. The sanitary condition of this port and vicinity is good. No quarantinable diseases exist.

Week ended September 5. Sanitary condition of this port and vicinity, good; no quarantinable diseases exist. A British bill of health from Fort de France, Martinique, dated

A British bill of health from Fort de France, Martinique, dated September 5, and signed by the British consul, reports "Seven cases of yellow fever during the past week; no deaths."

FOREIGN AND INSULAR STATISTICAL REPORTS OF COUNTRIES AND CITIES—UNTABULATED.

BORNEO-Sandakan.-Month of June, 1908. Estimated population, 10,495. Total number of deaths, 43, including beri-beri 13, tuberculosis 4, and 3 from smallpox.

CANADA—British Columbia—Vancouver.—Month of August, 1908. Estimated population, 52,000. Total number of deaths, 60, including enteric fever 1 and 6 from tuberculosis.

DUTCH GUIANA—Parimaribo.—Month of August, 1908. Estimated population, 34,870. Total number of deaths, 105. No contagious diseases reported.

FRANCE—*Cherbourg.*—Month of August, 1908. Estimated population, 43,948. Total number of deaths, 64, including enteric fever 4, and 11 from tuberculosis.

GREAT BRITAIN—*England and Wales.*—The deaths registered in 76 great towns in England and Wales during the week ended August 29, 1908, correspond to an annual rate of 15.6 per 1,000 population, which is estimated at 16,234,952.

London.—One thousand three hundred and twenty-seven deaths were registered during the week, including measles 14, scarlet fever 13, diphtheria 10, enteric fever 5, whooping cough 10, tuberculosis 166, and 272 from diarrhea. The deaths from all causes correspond to an annual rate of 14.4 per 1,000. In Greater London 1,903 deaths were registered. In the "outer ring" the deaths included 3 from measles, 2 from scarlet fever, 4 from diphtheria, and 3 from whooping cough.

Salford.—Two weeks ended August 29, 1908. Estimated population, 239,294. Total number of deaths 184, including whooping cough 3, diphtheria 4, scarlet fever 1, and 12 from phthisis pulmonalis.

Ireland.—The average annual death rate represented by the deaths registered during the week ended August 29, 1908, in the 21 principal town districts of Ireland was 20.6 per 1,000 of the population, which is estimated at 1,131,959. The lowest rate was recorded in Limerick, viz, 13.7, and the highest in Tralee, viz, 31.7 per 1,000.

Scotland.—The deaths registered in 8 principal towns during the week ended August 29, 1908, correspond to an annual rate of 15.4 per 1,000 of the population, which is estimated at 1,839,038. The highest rate of mortality was recorded in Dundee, viz, 21.7, and the lowest in Leith, viz, 9.9 per 1,000. The aggregate number of deaths registered from all causes was 544, including measles 3, enteric fever 4, diphtheria 5, scarlet fever 1, and 17 from whooping cough.

GREECE—Patras.—Month of August, 1908. Estimated population, 42,500. Total number of deaths, 25, including enteric fever 1, diphtheria 1, and 12 from tuberculosis.

HUNGARY—Fiume.—Two weeks ended August 31, 1908. Estimated population, 49,500. Total number of deaths, 52, including 15 from tuberculosis.

JAPAN-Formosa. Three weeks ended August 8, 1908. Estimated population, 3,050,004. Total number of deaths not reported. Thirteen deaths from enteric fever, 1 from diphtheria, and 1 from plague reported.

MALTA.—Three weeks ended August 22, 1908. Estimated population, 206,690. Total number of deaths, 282, including enteric fever 5, and 7 from tuberculosis.

NEW ZEALAND—Auckland.—Month of June, 1908. Census population, 69,149. Total number of deaths, 52, including enteric fever 1, and 8 from tuberculosis.

Christchurch.--Month of June, 1908. Census population, 55,263. Total number of deaths, 49, including 2 from tuberculosis.

Dunedin.—Month of June, 1908. $\overline{C}ensus population, 58,036$. Total number of deaths, 52, including diphtheria 1, and 5 from tuberculosis.

Wellington.—Month of June, 1908. Census population, 63,807. Total number of deaths, 58, including diphtheria 1, scarlet fever 2, and 7 from tuberculosis.

SPAIN—Barcelona.—Month of August, 1908. Estimated population, 600,000. Total number of deaths, 1,037, including diphtheria 10, enteric fever 37, smallpox 6, measles 6, scarlet fever 1, whooping cough 13, and 86 from tuberculosis.

Malaga.—Month of July, 1908. Estimated population, 135,000. Total number of deaths, 255, including diphtheria 1, and 22 from tuberculosis.

SWITZERLAND.—Week ended August 22, 1908. Reports from 18 cities, having an aggregate population of 876,946, show as follows: Total number of deaths, 235, including diphtheria 3, whooping cough 1, enteric fever 2, and 44 from tuberculosis.

WEST INDIES—Curaçao.—Two weeks ended September 4, 1908. Estimated population, 30,400. Total number of deaths, 16.

Cholera, yellow fever, plague, and smallpox, from June 27 to September 25, 1908.

[Reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State, and from other sources.]

[For reports received from December 27, 1907, to June 26, 1908, see PUBLIC HEALTH REPORTS for June 26, 1908.]

[Note.-In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.] .

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria:	Q			
Ostrowo Ceylon, general	Sept. 8 May 17–23	76	39 1	
Colombo	June 7-July 18		22	20 cases in the asylum for the
China:		1		insane.
Amoy Canton	July 26–Aug. 8 June 21–27	5	2	Aug. 11, still present. Present.
Hankau	July 19-25		7	July 27-Aug. 8, epidemic in Han- kau, Hanyang, and Wuchang among natives. Deaths 1500.
Hongkong Shanghai	. June 14-Aug. 1 Aug. 17-23	25	18	Present, and in vicinity.
Wuchang	. Aug. 5			In military encampment.
India:		1		
Bombay Calcutta			22 256	On S. S. Annie, en route May 23– June 1, 2 deaths.
Madras Rangoon Indo-China:			290 57	
Bien Hoa			59	
Cholen		156	152	
Saigon Japan:	. May 10-Aug. 8	94	65	Reports May 23 and June 6 in- clude Cholen.
Kawasaki Kure	. Aug. 23 Aug. 15	1		Present on steamer from Cal-
Moji	. Aug. 8	2	İ	cutta. 1 case from Yamaguchi Ken.
Токуо	. Aug. 22			Present in vicinity.
Tokushima Yokohama Persia:	. Aug. 2-8 Aug. 17-23	1 5	1	On British steamer in quaran- tine.
Teheran Philippine Islands:	. July 3	1	1	
Manila	June 7-Aug. 8	31	27	3 cases to June 23 on railroad from Pangasinan Province. First quarter calendar year 1908, 203 cases, 167 deaths.
Provinces, general	. July 12–18	3	2	First quarter calendar year 1903, 806 cases, 628 deaths. Provinces north of Manila, June 28-July 4, 614 cases, 331
A	July De turn 1		20	deaths.
Ascurrago Bataan	July 26–Aug. 1 Jan. 1–Mar. 31	20 20	20 18	
Benguet	July 26-Aug. 8	6	3	
Bulacan Capiz	Jan. 1-Aug. 8	133	100	
Capiz	Jan. 1-Aug. 1 Jan. 1-Mar. 31	328 22	251 20	
llocos Sur		820	622	
Jaro		17	10	
La Laguna	Jan. 1-Mar. 31	3	2	
Mindoro		32	20 348	Including Balingasang and
Misamis Nueva Ecija		726 845	348 271	Including Balingasang and Cagayan.
Nueva Vizcaya	July 12-Aug. 8	27	24	
Pampanga	Jan. 1-Aug. 8	194	157	
Pangasinan Rizal	Jan. 1-Aug. 8 Jan. 1-Aug. 8	1,964 154	1,156 125	
Santa Barbara	July 26-Aug. 1	154	9	
Tarlac	Jan. 1-Aug. 8	201	48	
Union		255	201	
Zambales		6?	48	

1402

Cholera, yellow fever, plague, and smallpox, etc.-Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia, general	July 21-Aug. 21	. 2,043	959	
Astrakhan govt. district	. July 19-Aug. 14	. 322	152	
Baku	Aug. 7-17	. 6	3	
Batoom Don, territory of	Aug. 10 July 19-Aug. 17	. 176	58	Present in vicinity.
Ekaterinislar	Aug. 8-17	1 1	1	
Kazan	Aug. 7-17	. 5	3	1
Kostroma.	Aug. 8-17	. 1		•
Kooban	Aug. 8-17. Aug. 7-17. Aug. 29.	. 3	2	Aug. 10, present.
Nakhchivan	Aug. 7-14.	19	6	Aug. 10, present.
Nijni Novgorod	Aug. 7–17	173	62	
Oofa	Aug. 7-14	. 1	1	
Panza Perm	Aug. 8-17		2	•
Rostov	July 26-Aug. 14	87	87	
Samara govt. district	July 19-Aug. 17	64	41	
Saratov.	July 19-Aug. 14	302	177	July 19, present, also, on vesse
Simbirsk govt. district St. Petersburg govt. dist	Aug. 7-14 Sept. 9	1		July 31, present.
Toganrog	Aug. 29			Present.
Toganrog Tambov govt. district Fifis	July 31	1		Do.
fiflis	Aug. 8-17 Aug. 7-14	1		
Tula Zaritzyn	July 24-Aug. 6	2 96	1 55	July 19, present, also, on vessels
Siam:	July 2-Aug. 0			Aug. 29, 250 cases daily.
Basseiti	May 10-16			Present.
Straits Settlements:	10 10			
Singapore	May 10-16		1	
	YELLOW	FEVE	R.	
Brazil:	_		[
Bahia	July 22	3	••••	From Italian bark Sacro Cuor de Jeso.
Manaos		28	27	400000
Para	May 31–Aug. 29	30	28	
Pernambuco Rio de Janeiro	June 15-Aug. 15	3	8 3	
Cuba:	June 1-Aug. 15	9	3	
Habana Province-				
Habana	Sept. 13-16	1	1	
Santiago Province— Antilla	Sept. 8			Case removed to Santiago Au
	ocp. 0		•••••	29.
Daiquiri	June 27-Aug. 15	20	4	
Firmeza	Aug. 22	1		
Santiago Curaçao	Aug. 29-Sept. 6 June 28-Aug. 1	1	1	From Antilla and Mayari. Imported.
Ecuador:	June 10-Aug. 1	1	1	imported.
Guayaquil	May 31-Aug. 22		14	
Honduras:	0			Descent
Ceiba Martinique:	Sept. 24	•••••	•••••	Present.
Fort de France	June 27-Sept. 5	22	7	
fexico:	-	1		
Acapulco	Sept. 12	1	1	On Mexican S. S. Manuel Her
Fronters	Inly 19	.		rerias.
Frontera Laguna del Carmen	July 12 Aug. 29	1 2	•••••	
Laguna de Terminos	June 9-July 12	8	2	From May 18, 4 cases additions
	-			from S.S. Lembit.
Merida	Aug. 23-Sept. 16	8	1	
Tierra Blanca Veracruz	July 27 July 7-Sept. 24	1	8	
Porto Rico.	July 1-Sept. 21	10	0	•
San Juan	July 5			1 case on S. S. Julia.
enezuela	June 26	80	40	Estimated. In Upata, Guas pati, and Callao.
	PLAG	 		
		1		· · · · · · · · · · · · · · · · · · ·
ustralia:	Juma C. Arra D		_	Gase Tune 6 11 - 1 Million
Brisbane	June 6-Aug. 8 Feb. 25-June 24	3	1	Case, June 6–11, at Clifton.
		41.		
Syd: ey	reb. 20-5 une 24	- 1		
		2	1	
Syd: ey	Sept. 21	-	1 2	

Cholera, yellow fever, plague, and smallpox, etc.-Continued.

PLAGUE-Continue 1.

Brasil: Pernambuco July 29. 1 Rein and the second	
Bahia July 29	
Rio de Janeiro May 11-Aug, 9 9 1 Sao Paulo May 18-31	
Sao PauloMay 18-31	
British East Africa: June 11-July 11. 27 22 British Gold Coast: May 20-June 7 5 5 Aktra May 18-Aug. 12 64 6 Arica July 15-22 2 Iquique May 20-Aug. 17 25 10 China: Apr. 26-July 11 Amoy Apr. 26-July 11 Canton May 10-June 9 10 Mar 10-Apr. 30, and 47 deaths. Hongkong May 10-June 9 10 Aug. 1, epidemic. Browstow June 2-8. Present. Mar 10-Aug. 1 Broachor: July 4-Aug. 1. Do. Boo Swatow July 4-Aug. 1 21 Bay 27-July 5 6 3 Abstout May 27-July 5 6 3 July 5, 1 case on S.S. O July 5, 1 case on S.S. O Port Said June 27 June 27 1 July 5, 1 case on S.S. O Astout May 2	
Port Florence June 11-July 11 27 22 British Gold Coast: May 20-June 7 5 5 Aug. 8, present. Chile: May 18-Aug. 12 64 6 Arica July 15-22 2 Iquique May 20-Aug. 17 25 10 China: Apr. 26-July 11	
British Gold Coast: AkkraNay 20-June 75Aug. 8, present.Chile: AntofagastaMay 18-Aug. 12646AricaJuly 15-222IquiqueMay 20-Aug. 172510China: AmoyApr. 26-July 11Present in native cit 	
Chile: AntofagastaMay 18-Aug. 12 July 15-2264 264 6AricaJuly 15-222IquiqueMay 20-Aug. 172510China: AmoyApr. 26-July 11Present in native cit country districts. Aug. 1, epidemic.CantonMay 1-June 910Present in native cit country districts. Aug. 1, epidemic.GantonMay 1-June 910Mainly imported. Ju present.HongkongMay 31-Aug. 121HongkongJuly 4-Aug. 14Do.ByatowJuly 4-Aug. 1854ByatowJuly 3-Aug. 1854Port SaidJuly 3-Aug. 186Provinces-May 10-July 316AssioutMay 22-Aug. 481Ben SouefMay 22-Aug. 481BindiehJune 271May 22-Aug. 414GalyoobeeyehMay 22-Aug. 854BengalApr. 26-Aug. 854BundarMay 22-Aug. 481BengalMay 22-Aug. 481Borbay PresidencyApr. 26-Aug. 854May 28-Aug. 85428BurgalApr. 26-Aug. 854BurgalMay 22-Aug. 121BurgalApr. 26-Aug. 854BurgalApr. 26-Aug. 854BurgalApr. 26-Aug. 854BurgalApr. 26-Aug. 854BurgalApr. 26-Aug. 854Burgal	
Antofagasta May 18-Aug. 12 64 64 64 Arica July 15-22 2 From Jan. 1-Apr. 30, and 47 deaths. China: Apr. 26-July 11 2 From Jan. 1-Apr. 30, and 47 deaths. Amoy Apr. 26-July 11 2 From Jan. 1-Apr. 30, and 47 deaths. China: Apr. 26-July 11 Present in native cit country districts. Aug. 1, epidemic. Ju present. Foochoo. Apr. 6-July 18 May 10-Aug. 1 Present. Hongkong July 4-Aug. 14 Boo. Do. Ecuador: Guayaquil May 16-Aug. 18 54 28 Apr. 6-July 18 May 16-July 31 6 2 Do. Ecuador: May 12-Aug. 18 54 28 Gase, July 9, from ss. 1 Boot Said July 2-Aug. 18 54 28 Gase, July 9, from ss. 1 Acssiout May 16-July 31 6 2 July 5, 1 case on S. S. O Provinces- Asy 16-Aug. 17 23 3 Agy 29-July 25 44 Garbieh May 28-Aug. 8 42 13 45 Beni Souef May 28-Aug. 8 545 54 </td <td></td>	
Arica July 15-22 2 From Jan. 1-Apr. 30, and 47 deaths. Iquique May 20-Aug. 17 25 10 China: Apr. 26-July 11 Present in native cit country districts. Canton May 1-June 9 10 Present in native cit country districts. Canton May 10-Aug. 1 865 709 Hsing Sua July 4-Aug. 14 May 10-Aug. 1 90. Swatow July 4-Aug. 14 Do. Do. Browinces- May 27-Aug. 18 54 28 Port Said July 3-Aug. 18 6 2 May 10-July 31 6 2 July 5, 1 case on S.S.C Provinces- May 27-July 5 6 3 Assiout May 28-Aug. 4 81 45 Beni Souef May 29-Aug. 8 42 13 Kena May 20-Aug. 8 54 54 Bombay Presidency and Sind. Apr. 26-Aug. 8 5,475 4,450 May 29-Aug. 8 13,483 10,105 447 May 20-Aug. 8 13,483 10,105 45	
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Canton May 1-June 9 10 Aug. 1, epidemic. Foochoo. Apr. 6-July 18 Mainly imported. Jupresent. Hongkong. May 10-Aug. 1 865 709 Hsing-Sua June 2-8. 21 Swatow. July 4-Aug. 14. Do. Bcuador: May 31-Aug. 18 54 28 Guayaquil. May 27-Aug. 18 54 28 Port Said July 3-Aug. 18 54 28 Port Said July 3-Aug. 18 6 3 Minieh May 27-July 5 6 8 Minieh May 22-Aug. 4 81 45 Beni Souef May 22-Aug. 4 81 45 Beni Souef May 22-Aug. 8 5,475 4,450 Sind. Apr. 26-Aug. 8 5,475 4,450 Sind. Apr. 26-Aug. 8 5,475 4,450 Madras Presidency Apr. 26-Aug. 8 5,475 4,450 Sind. Apr. 26-Aug. 8 5,475 4,450 Bengal Apr. 26-Aug. 8	July 21-
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Bengal Apr. 26-Aug. 8 956 895 United Provinces. Apr. 26-Aug. 8 1,502 1,360 Punjab Apr. 26-Aug. 8 13,483 10,105 Burma Apr. 26-Aug. 8 1,981 1,941 Central provinces, includ- Apr. 26-Aug. 8 1,981 1,941 Central provinces, includ- Apr. 26-Aug. 8 1,981 1,941 Coorg. May 24-June 27 8 5 Mysore State Apr. 26-July 18 1,246 916 Hyderabad State July 19-Aug. 8 102 69 Central India. Apr. 26-July 18 12 8 Rajputana Apr. 26-June 27 624 469 Kashmir Apr. 26-June 27 21 13 Northwest frontier prov. Apr. 26-July 18 404	
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Burma Apr. 20-Aug. 8 1, 981 1, 981 Central provinces, includ- ing Berar. Apr. 26-Aug. 8 41 31 Coorg. May 24-June 27 8 5 Mysore State Apr. 26-July 18 1, 246 916 Hyderabad State July 19-Aug. 8 102 69 Central India Apr. 26-May 16 12 8 Rajputana Apr. 26-June 27 624 469 Kashmir Apr. 26-June 27 21 13 Northwest frontier prov. Apr. 26-July 18 406	
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Coorg. May 24-June 27 8 5 Mysore State Apr. 26-July 18 1,246 916 Hyderabad State July 19-Aug. 8 102 69 Central India. Apr. 26-July 16 12 8 Rajputana Apr. 26-June 27 624 469 Kashmir Apr. 26-June 27 21 13 Northwest frontier prov Apr. 26-July 18 456 404	
Mysore State Apr. 26-July 18 1,246 916 Hyderabad State July 19-Aug. 8 102 69 Central India Apr. 26-May 16 12 8 Rajputana Apr. 26-June 27 624 469 Kashmir Apr. 26-June 27 21 13 Northwest frontier prov Apr. 26-July 18 406	
Hyderabad State July 19-Aug. 8 102 69 Central India. Apr. 26-May 16 12 8 Rajputana Apr. 26-Japr. 26-Japr. 21 13 Northwest frontier prov. Apr. 26-July 18 406	
Kajputana Apr. 26-June 27 624 409 Kashmir Apr. 26-June 27 21 13 Northwest frontier prov Apr. 26-Jung 18 456 404	
Northwest frontier prov- Apr. 26-July 18 456 404	
Northwest frontier prov- Apr. 26-July 18 456 404	
ince.	
Grand total	
Grand total	
Indo-China:	
Cholen May 10-Aug. 1 72 68	6 and 19
Saigon May 10-Aug. 8 89 70 Cholen included, July Japan:	o anu 13.
Formosa	c at Tai-
wan; 25 cases report	
Kobe	
Nara June 14-20 14 Osaka May 10-June 27 19 18	
Peru:	
Callao	
Chepen (Pacasmayo) July 8-Aug. 17 27 15 And vicinity.	
Ferrenafe	
Guadalupe Aug. 0-18 1 1	
Lima	
Mollendo June 2–22 2 i Monsefu June 2–8 1	
Monsefu June 2-8 1 Niepos (Hualgayoc) June 2-8 2 Paita (La Huaca) July 21-Aug. 17 6	
Paita (La Huaca) July 21-Aug. 17 6 2	

Cholera, yellow fever, plague, and smallpox, etc.-Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued.	· ·		-	
Salaverry	May 2-July 19	17		
Santa Eulalia (Huarochiri)	July 21-Aug. 3			
San Jose (Lambayeque) Trujillo	July 21-Aug. 3 May 20-Aug. 17	4 168		De.
Siam:	Muy 20 Mug. 11			20
Bangkok	May 3-June 20	18	12	
Puket	May 9		• ••••••	Present.
Tongkah	May 4	•••••	.	Do.
Straits Settlements: Singapore	May 17-30		. 2	
frinidad:	<i>May 11 00</i>		-	
Port of Spain	June 4-July 28	15	11	
furkey in Asia:	T			
Adalia	July 27 20	2 75	50	
• Bagdad Iruguay:	June 7-Aug. 29	15	50	
Montevideo	Apr. 1-May 31		. 5	
enezuela:	•		1	
Caracas	June 10-Aug. 21	51	11	
La Guaira	Tuno 16-90	5	2	Aug. 5, present.
Maiquetia	June 28.	ĭ		Suburb of La Guaira.
Manquetta	• uno 20	-		
	SMÁLI	LPOX.		
lgeria:	Term = 00 Array (11			
Algiers	June 29-Aug. 31	• • • • • • • • •	16	
Aden	May 28-Aug. 24		53	
rgentina:				· ·
Buenos Aires	Mar. 1-May 31		4	
ustria:	July 12-Aug. 22			
Bukowina Galicia Silesia	May 24-June 28	3		
Silesia	July 19-25	4		
orneo:				,
	Apr. 16–June 30	43	16	
razil: Bahia	Man 1 July 21	409	31	
Campinas	May 1-July 31 June 29-July 5		2	
Para.	June 28-July 4	2	$\overline{2}$	
Pernambuco	May 1-Aug. 15		206	
Rio de Janeiro	May 11-Aug. 16	4, 583	2,431	July 8-16 one case and 1 dea
				on S. S. Peruviana in voya
Santos	May 18-Aug. 9		24	to Castries and Baltimore. 1 case July 10 from S. S. Spa
Guntos	May 10 Hug	•••••	-1	tan Prince.
ritish South Africa:				
East London	July 12-Aug. 15	10	•••••	
anada: Nova Scotia—				
	June 14-Sept. 12	36		
Ontario-	ouno 11 cepti 11			
Hamilton	June 1–30	3		•
eylon, general	Apr. 1-30		2	
Colombo	June 29-Aug. 8	40	9	
	Apr. 5-Aug. 1		1	
Foochoo	Apr. 5-Aug. 1 Apr. 26-June 27			Present.
HONGKONG	May 10-July 18	30	18	
Nanking	June 11			Epidemic.
shanghai	May 18-July 19	a 2	12	
Guavaquil	May 31-Aug. 22		45	
	May 14-Aug. 12	571	148	
	May 31-Aug. 26	49	21	,
Cairo		5	•••••	
Suez	June 18-July L	1		
Suez		1	1 1	
Suez			1	
Suez		12 8	1	
Suez		3 49	1	
Suez mance: Marseille Paris. Toulon ermany, general Bremen	July 1-31 May 31-Aug. 8 May 1-July 31 May 24-Aug. 19 May 24-June 6	3 49 · 3	1	
Suez mance: Marseille Paris. Toulon ermany, general Bremen	July 1-31 May 31-Aug. 8 May 1-July 31 May 24-Aug. 19 May 24-June 6	8 49 · 3 2	1	
Suez	July 1-31 May 31-Aug. 8 May 1-July 31 May 24-Aug. 19 May 24-June 6 Aug. 2-19 Aug. 2-8	3 49 · 3 2 1	1	
Suez	July 1-31 May 31-Aug. 8 May 1-July 31 May 24-Aug. 19 May 24-June 6	8 49 · 3 2	1	

a Cases among foreigners; deaths among natives.

Cholera, yellow fever, plague, and smallpox, etc.-Continued.

SMALLPOX—Continued

Place.	Date.	Cases.	Deaths.	Remarks.
ndia:				-
Bombay	May 20-Aug. 18		205	
Calcutta	May 10-Aug. 8			
Madras	May 29_Aug. 14		2	
	May 23-Aug. 14		-	
ndo-China:	10			
Cholen	May 24-July 25		5	
Saigon	July 19-Aug. 8	5	2	
taly, general	June 8-Aug. 30	495		
Catania	May 22-July 31		4	
Genoa	May 1-31	2		
Messina	July 19-25			Present.
Naples	June 7-Aug. 15		5	
Palermo.	May 24-Aug. 22		4	•
	May 24-Aug. 22	45	*	
Turin	June 8-14	1		
apan:		-	1	
Formosa	June 7-13	1		
Kobe	May 31-July 4	12		May 30, 1 case on S. S. Mon lia; June 13, 1 case on S. Muncaster Castle.
Nagasaki	May 26-31	1		
Osaka	May 26-31 May 10-Aug. 1	115	59	
Yokohama	June 2–29		1	
AVA:	June 2-23			
Batavia	May 10 Aug 8	48	2	
	May 10-Aug. 8	40	2	
lexico:				
Aguascalientes	June 8–July 12		8	
Mexico City	May 10-July 25		197	
Monterey	June 8-14		1	
etherlands. The:				
Amsterdam	July 27-Aug. 1	1		
orway:	Vuly 21-11ug. 1	-		
Christiania	Amm 0.90	86	5	
	Aug. 9–29		9	
eru:				
Lima	June 1–July 18	4		Aug. 22, 2 cases in the lazaret
Paita	Aug. 25			Present, and in vicinity.
hilippine Islands:	-			, .
Manila	May 3-Aug. 8	136	49	First quarter calendar ye
				1908, 42 cases, 12 deaths.
orto Rico:				
Mayaguez	June 7-27	6		
	June /-2/	v	•••••	
ortugal:	Man Ol Gant E			· · · · ·
Lisbon	May 31-Sept. 5	32		
ussia:				
Batoom	May 1-31	1		
Moscow	May 24-Aug. 29	274	137	
Odessa	May 24-Aug. 8	38	4	
Riga	June 7-Aug. 29	22		
St. Petersburg	May 17-Aug. 15	447	106	
Warsaw	May 10-July 25	11/	61	
	May 10-5 uly 20		01	
beria:	N 0 X 01			
Vladivostok	May 6-June 21	11		
pain:	1			
Barcelona	June 1-Aug. 31		13	
Cadiz	July 27			Present.
Malaga	July 27 Mar. 1-Apr. 30		. 4	July 27, present.
Valencia	June 1-Aug. 29	82	. 9	
raits Settlements:	vano i mag. som	~	-	
	Ang 9.8	1		
Penang	Aug. 2-8		••••••	
Singapore	May 24-July 13	• • • • • • • • • [5	
vitzerland:			1	
Zurich	Aug. 23–29	8	• • • • • • • • • • • • • • • • • • •	
urkey in Asia:	-			
Bagdad	May 10- Aug. 15	164	56	
Smyrna	May 13-June 16		6	
irkey in Europe:	20 10 vane 10	•••••		
Constantinople	June 1-Aug. 30	•••••	74 2	

109

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			all				1)eath	s fro)m-	•			
Cities.	Week ended—	Estimated population	Total deaths from causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheris.	Measles.	
Aberdeen	Aug. 29	174, 579	42								<u> </u>	<u> </u>	1	- -
Aden		43, 974 40, 000	46 54	4			¦	10		• • • •	···			
Aguascalientes Aix-la-Chapelle	Sept. 6 Aug. 22	158, 367	79	6			••••	••••	••••	••••	2	••••	••••	• ••
Amsterdam	Aug. 29	158, 367 564, 770 564, 770	120	25										
Do Antwerp	Sept. 5 Aug. 29	564,770 320,000	110 82	11			••••	••••	••••	••••	••••	••••	• • •	•
Asuncion	Aug. 1	75,000	22	3			••••	••••	••••	1		••••	••••	•
thens	Aug. 29	241,058	56	4					1	Ĝ				
aracoa		27,000	3		!		••••	••••	••••	••••	••••	••••	· · .	· • ·
Barmen Basel	Aug. 29	160,000 131,000	35 25	3		····	••••	••••	••••	••••	••••	••••	2	
Belfast	do	380, 344	124	15						2		2		: ::
elize	Sept. 10	9,113	3				••••			• • • •		•••••		
ergen irmingham	Aug. 29 Sept. 5	87, 749 558, 336	20 172		•••••	••••	• • • •	••••		··;·	•••••	2 1	•••;•	• • • •
luefields	Aug. 29	2,500	3				••••			1	1	1	1	
Do	Sept. 5	2,500	1		• • • • • • •									
ombay ordeaux		977, 822 253, 000	602 96	34 12	40	2	••••	5		22	••••	••••	4	
reslau	Aug. 29 Aug. 15	335, 186	188	37	• • • • • • •	••••	••••	••••;•	••••	1	••••		••••	· • •
Do	Aug. 22	335, 186	149	21										1
ristol	Sept. 5	372,785	100			••••		••••;			····	2		
russels alcutta	Aug. 29 Aug. 8	630, 078 847, 796	136 388	8 21			••••	3	•••	1	1	1	2	
ardiff	Aug. 22	191, 446	68	6	12	0							••••	j
Do	Aug. 29	191,446	58	2								1		
artagena, Colombia eiba	Aug. 23	30,000	15 2	1	•••••		••••	••••	••• •		••••	••••	• • • •	
hemnitz	Sept. 5 Aug. 29	6, 500 272, 575	76	5			••••	••••;•	••••		2	••••	••••	
ienfuegos patzacoalcos	Sept. 5	37,000	iĭ									1		
Datzacoalcos Do	Aug. 29	3,300	4	••••	•••••	••••	••••	••••	.	••••		••••	• • • •	
	Sept. 5 Aug. 29	8,300 19,483	3 7	····	•••••	••••	••••	••••	.		••••	••••	••••	
ognac	do	463, 451	177	21						1	2		4	···
olombo onstantinople ublin	Aug. 8	180, 2t 2	142	7	• • • • • •	••••	••••			17			1	
ublin	Aug. 30 Aug. 29	1,000,000	244 179	39 36	•••••	•••• ·	••••	4		9	$\begin{bmatrix} 2 \\ 1 \\ \end{bmatrix}$	••••	3	•••
linburgh furt.	do	350, 524	103						<u> </u>		.			
furt	do	105, 875	33	3							1			
ushing. ankfort-on-the-Main	Sept. 5 Aug. 29	20, 257 358, 000	$\frac{2}{102}$	••••	•••••	•••• •	•••• •	••• •	••• •	••• •		••••	••••	
ontera	Sept. 5	9,000	8											•••
asgow othenburg eenock	Sept. 4	859,715	25õ							3	1	2	2	1
othenburg	Aug. 29	160, 500 71, 783	30 20	2	••••• •	···· ·	••••		•••	1.		1	•••	
Do	Sept. 5	71,783	16						••••	••• •				•••
ayaquil Do	Aug. 15	70,000	51	7 .			1	4 .						
Do lifax	Aug. 22	70,000 40,757	43 15	3.			1	8 .	.	••• •		•••	•••	• • •
Do	Sept. 5 Sept. 12	40,757	18					••••	••••	••• •	••••	ï.	•••	•••
mburg	Aug. 29	854, 472	261	26 .							1	8	1	•••
vre nolulu	do	132, 430 39, 306	39	7 .		···· ·		•••		2 .	•••	••••	•••	•••
Do	Aug. 22	39, 306	18 16	5				••••	•••	••• •	-		••••	•••
11	do	271, 137	115										3	••••
nigsberg	do	234,500 477,107	99 140	7.	····· ·		••• •	•••	•••	1	1	1.	·;·	
ipzig	Sept. 5 Aug. 29	528, 184	172	16				••• ••		••• •	1	3	12	
ith	ðo	84, 689	16	2 .									· · · !	
ege Do	Aug. 22	174,487	49 46	3.		••••	••• •	• • • • •	•••	1 .	•••;•	•••	1	
verpool	Aug. 29	174, 487 753, 203		23						i	5	2	$\frac{1}{3}$	
Do	Sept. 5	753, 203 753, 203	269	ĩĩ .					1	2	1	3 .		
ndon	Aug. 29 do	7, 323, 327 1	,903 .	2		••••	••• •	••• ••	••	6	18 1	1	22	10
beck	July 31	96,000 509,346	43 385			is .		••• ••		••••••	••• •	··· ·	···i·	•••
Do	Aug. 7	509, 346	562 .			81 .								
Do	Aug. 14	509, 346	648 .		1 1	40	••••	1			••• •	·	1.	
nchester	Aug. 22 Aug. 29	509, 346 509, 346 247, 725 631, 533 179, 309	88 215	5. 16.	•	••• •		•••		•••	3	22	25	····
nnheim	Aug. 15	179, 309	41	6 .									ĭ .	
Do	Aug. 22	179, 309	35	4	-	••••	•••		••••••	i L	•••	•••	4 1.	

Weekly mortality table, foreign and insular cities.

			BII				D	eath	s fr	om—	•			
Cities.	Week ended—	Estimated population.	Total deaths from causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	
lessina	do	107,000	30							5		1	1	1
filan	Aug. 23	584, 390	171	···:·						2		1		•
fonterey Iontreal	Sept. 7	100,000	54	5	• • • • • • •		••••		• • • •	1	••••		··;·	•
	Sept. 5	378,856	183 884	10 59	•••••			10	••••	111	6	25	1 11	÷.
loscow lunich	Aug. 22	1, 335, 104 556, 000	202	31	•••••	••••	••••	10	••••	1	2	1	11	
agasaki	Aug. 9	173, 118	55	01										1
Do	Aug. 16	173, 118	69											
ewcastle-on-Tyne	Aug. 29	173, 118 272, 969	98							2		1		
lottingham	do	255,000	74				• • • •				1		• • • •	.
uevo Laredo	Sept. 5	8,000	5	1	• • • • • •	••••	•••••		• • • •	1		••••	• • • •	÷.
ara aris	Aug. 29	185,000 2,776,394	64 791	6 176	• • • • • •		1	••••	• • • •		3	3	2	•
enang	Aug. 1	101, 469	721 77	13	• • • • • •	••••	••••	••••	••••	0	0	J	-	١.
lymouth	Sept. 5	116,000	32											Π.
lymouth ort Elizabeth	Aug. 15	32, 959	19	4						1		l		i.
rague Do	Aug. 22	231, 780	96	29		• • • •			••••	1		1 1		•
Do	Aug. 29	231, 780	102	22 8		•••;•	• • • •	••••	••••	1	1	1	• • • •	•
angoon io de Janeiro	Aug. 8 Aug. 16	252, 155 811, 443	183 546	8 74	28	1	• • • •	268	••••	···:	••••	••••	• • • •	•
otterdam	Sept. 5	408, 145	106	14		••••		200		i	6	1	••••	:
. John, N. B	Sept. 12	408, 145 40, 789	20	1										:
. Stephen, N. B	do	2,840	ī											
anta Cruz de Ten-														1
eriffe	Aug. 29	46,000	18	2		••••		••••	••••			••••	• • • •	•
intiago de Cuba	Sept. 5	45, 497	.9	2		••••	••••	••••	••••	••••	••••	••••	••••	.•
ntos Do	July 5 July 12	75,000 75,000	30 26	2 2 3		••••		····· 1		···:	ĩ		••••	٠,
Do	July 19	75,000	43	3	•••••	••••					•			1
Do	July 26	75,000	41	ĭ				ĭ						÷.
Do	Aug. 2	75,000	24	2				2						۰.
Do	Aug. 9	75,000	30	2				6			••••	····	• • • •	
hiedam	Aug. 15	31, 193	17	1	• • • • • •	••••	••••	••••	••••	••••	••••		••••	•
Do	Aug. 22	31, 193	13	1	•••••	••••	••••	••••	••••	• • • •		••••	•••	•
Do Do	Aug. 29 Sept. 5	31, 193 31, 193	12 13	••••	•••••	••••	•••• ••••	••••	•••••	••••		••••	· • .	•
nganore	Aug. 1	260,000	259	30				••••		4	••••			ċ
ngapore uthampton uth Shields ettin	Sept. 5	122, 196	30								••••• ••••			1
uth Shields	Aug. 29	115, 535	29	1								••••		•
ettin	do	230,000	114	7		••••		••••		••••	••••	••••	••••	
ez	Aug. 5	19,786	10					••••		:		••••	••••	٠
Do Do	Aug. 12 Aug. 19	19, 786 19, 786	10 12	••••		••••						••••	••••	•
Do	Aug. 15	19,786	10							••••				1
Do nderland	Aug. 22	157, 495	46	2										Ι.
Do	Aug. 29	157, 495 157, 495 213, 719	55	4			••••		••••	1	••••	••••	••••	
i e ste	go	213, 719	75		• • • • • • !·		••••	••••	••••	••••	••••¦	••••	••••	•
lencia	do Aug. 22	250,000 32,000	69 33	8	i		••••	••••	••••	••••	•••••	••••	••••	•••
Do	Aug. 22 Aug. 29	32,000	41	5		••••	i	••••			••••			
ctoria, B. C	Sept. 5	27, 500	5											
enna	Aug. 29	2,021,052	521	93				!		3	2	2	2	
go	do	40,000	11	••••			••••	••••••	••••	··	···.	·· <u>.</u> .	··:-!	•••
arsaw	July 11	751, 595	278	43	· • • • • • ¦·	••••	••••	6	••••	2	2	2	5	
Do	July 18	751,595	321 306	59 49	· • • • • • ¦·	••••	••••	3	1	22	24	3	3 6	•••
est Hartlenool	July 25 Aug. 29	751, 595 66, 750	15	49			••••	1	+	4	*	•	v	
innipeg	Sept. 5	114,000	16							2				
Do	Sept. 12	114,000	26					!		$\overline{2}$				••
rich	Aug. 29	180,000	51			- 1		1				1 .		

Weekly mortality table, foreign and insular cities-Continued.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

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Surgeon-General, United States Public Health and Marine-Hospital Service.