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No. 33.

FURTHER OBSERVATIONS ON THE DISPOSAL OF EXCRETA (SECOND PAPER).4

By Ch. Wardell Stiles, Professor of Zoology, and Charles H. Gardner, Surgeon, United States Public Health and Marine-Hospital Service.

THE SURFACE PRIVY.

(1) If night soil containing live fly larvæ b is taken from a surface privy and buried in 6½ inches of sterilized sand, the burial of the material does not insure the death of the insects; on the contrary, the latter are able to penetrate the sand and to issue as adult flies. This observation (experiment 15) emphasizes the point that all fecal material should be rendered harmless and it raises still further misgivings in regard to the popular faith in the dry system. Unless a dry privy is rigidly fly proof, exposed or partially exposed feces give flies an opportunity to oviposit and as the resulting fly larvæ are not killed by shallow burial, so often practiced, the possibility of the dissemination of filth and disease germs still remains.

(2) Burial in 6½ inches of sand does not prevent hookworm (Necator americanus) larvæ from coming to the surface (experiment 15).

CARBOLIC METHOD.

(3) When feces containing hookworm eggs were placed in a 2 per cent mixture of crude carbolic acid with water live hookworm eggs were found after 24 hours, but live eggs were not found on date of next observation, twenty-third day (experiments 14, 14b, 14c). The carbolic mixture in question killed hookworm embryos and larvæ in a few moments under the microscope, so that the indications are that this method would be a safe one so far as hookworm disease is concerned. It is also safe so far as flies are concerned, as fly larvæ died promptly and flies did not oviposit or feed on the floating fecal material. Despite the advantages, we warn against its possible dangers, and on account of such dangers we do not recommend it.

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a See Public Health Reports, vol. 24 (27), 1910, July 8, pp. 947-950.
b Mr. Coquilett has kindly determined the flies as Ophyra leucostoma Wild.

WATER METHOD.

(4) If a pail system is used, and only water placed in the bucket, the development of hookworm (Necator americanus) eggs is inhibited and some of the eggs die; live eggs may, however, be found even at the end of 24 days. Further, mosquitoes will oviposit in the water, despite its character, and live mosquito larvæ may be found (experiment 17). This indicates that some safeguarding material must be added to the water.

WATER AND KEROSENE METHOD.

Feces containing eggs of Ascaris lumbricoides and Necator americanus were taken from surface privies and placed in jars of water with a film of kerosene.

(5) As the fecal material breaks up some of the eggs float to or near the surface of the water (experiment 13). This observation strongly indicates the necessity of examining for eggs of parasites the material used on sewer fields.

(6) Even 2 inches of water, with a film of kerosene, is exceedingly inhibitory to the development of the eggs, both of Ascaris lumbri-

coides and Necator americanus (experiment 5).

(7) Under about 9 inches of water, with a film of kerosene, hookworm eggs begin to die after 4 days; live eggs were found on the fifth, seventh, ninth, twenty-eighth, twenty-ninth, and thirty-third days, but no egg was found which had developed to the "tadpole" stage. On the twenty-eighth day 65 per cent of 20 eggs examined, on the twenty-ninth day 90 per cent of 20 eggs examined, and on the thirty-third day 75 per cent of 20 eggs examined were dead (experiment 4).

(8) Thus, if the water and kerosene method is used, it is unsafe (from the standpoint of hookworm disease) to throw the excreta on the ground, even if they have fermented for 33 days (experiment 4).

(9) The water and kerosene method reduces the odor almost to a

negligible degree.

(10) If water and kerosene are added to a pail containing flyblown feces, some of the fly larvæ succeed in crawling through the oil

and escaping from the pail.

(11) But if the water and kerosene are placed in the tub before use, or before the feces become fly-blown, the feeding and breeding of flies, mosquitoes, and other insects in the night soil seem to be eliminated, and thus the danger of the spread of filth and bacterial infection from the privy tub to the food, by means of insects, appears to be excluded, unless, of course, the tub is permitted to become so full that it runs over and unless it is filled with paper to a degree that the feces are not affected by the water and oil.

(12) Thus far the chief objections we have been able to develop to

the water-kerosene method are:

(a) If the water is too deep, splashing occurs; plans to prevent this splashing are now under experiment.

a Kindly determined by Mr. Knab as probably belonging to Culex quinquefasciatus Say.

(b) A tendency to economize may result in the use of too small a receptacle; a wet system clearly calls for a larger receptacle than a

dry system.

(13) The question naturally arises whether it would be feasible to apply the water-kerosene method to manure piles, in order further to prevent the breeding of flies.

(14) Newspaper is not disintegrated at the end of 33 days.

THE PRESENT STATUS OF THE PRIVY PROBLEM.

The privy is the great sanitary problem of the open country and the nonsewered villages. As it is not known which persons in a given community are carriers of typhoid, amœbæ, hookworms, Cochin-China diarrhea, Ascaris, etc., it is necessary from the public health point of view to impress upon the public the thought that all fresh human feces should be accepted as dangerous and should be treated as if they were actually a virulent poison. To adopt any other course is to run a risk of unnecessary sickness and death, especially among children. To bury the night soil without first safeguarding it may result in disease; to permit a continuation of the use of fresh night soil as fertilizer, in view of present day knowledge, is to permit a custom endangering life. Burning or boiling the human excreta is at present the most ideal plan, but while feasible in many instances it is not of universal feasibility. Still, we must not close our eyes to the fact that in the present absence of definite knowledge regarding the viability of certain infections (as amœbæ, for instance), every other plan (disinfectants included) must for the present be accepted as a compromise.

The best known compromise (the sewer) is not applicable to the open country; even as this system is used (and abused) in cities, we should recall that our knowledge regarding the possible distribution of zooparasitic diseases by the sewer system is very rudimentary. The surface privy is a distinct improvement over none at all, but is unwarranted in view of present-day knowledge. The so-called "pail system" (including any water-tight receptacle, as a can, tub, or barrel) is the least that can possibly be demanded. Some safeguarding material should be used in this pail. If dry earth, ashes, or lime is used, the entire privy should be made rigidly fly proof; if a fluid system is used, the screening is not quite as necessary, and thus a less expensive privy can be built. It remains to find a system of safeguarding which will be practical as well as theoretically not too inefficient. All systems have their advantages and their disadvantages; none is perfect.

The great practical disadvantage of the "dry" systems is that they call for cooperation from persons (children and many adult persons) whose cooperation can not be relied upon; given the lack of cooperation, even in a relatively small percentage of the population, and the advantages of the system are far less than popularly supposed, for flies and worms can develop and come to the surface, and thus continue to spread infection. If the dry system is adopted, the night soil should be subjected to heat in order to kill infection. The great practical advantage of the "dry" system lies in the fact that so many people already know about it. It is a great advance over the surface

privy.

In dealing with rural localities and many towns, one of the greatest obstacles to be considered is the widespread desire to use the night soil as fertilizer. Whatever our views on this subject may be, we must face the fact that it is a deeply rooted custom among our people which it may take a generation to eradicate. One great advantage of the "wet" system is that it seems to offer a promise that a means may be found whereby we may still retain whatever value there may be in night soil as fertilizer and at the same time do away with the risk involved in this custom. Thus, making an economic concession to farmers, we may still avoid the risk of estranging a large number of them from necessary sanitary improvements. To make it economically worth while to be sanitary in one's habits is one of the keynotes of sanitary advance.

An advantage of the water-kerosene method is that it can be installed with so little trouble and with so little change in the present privies. The only really necessary additions to the present surface privy are a platform under the seat, a receptacle such as a tub or barrel, under the seat, and the necessary barrels for fermentation,

or an iron pail for boiling.

Further studies on this system are still necessary (especially in connection with the splashing and the minimum time for fermentation), but it seems to promise more at less trouble and less expense than does the "dry" system, and it has the great advantage that it requires cooperation of a much smaller proportion of the population.

UNITED STATES.

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

PLAGUE-PREVENTION WORK.

Passed Assistant Surgeon McCoy reports:

ANIMALS EXAMINED FOR PLAGUE INFECTION.

During the week ended July 30, 1910, there were examined for possible plague infection at the Federal laboratory at San Francisco and the branch laboratories at Oakland and Los Angeles, Cal., animals as follows: Squirrels 3.538, gophers 5, rabbits 46, and rats 2,318. The rats were identified as follows: Mus norvegicus 1,973, Mus rattus 79, Mus musculus 194, Mus alexandrinus 72.

DISTRIBUTION OF POISON.

In connection with the making of a squirrel free zone around the cities on San Francisco Bay 725 acres of land in Alameda County were covered with poison during the week ended July 30, 1910.

SEATTLE, WASH.

Assistant Surgeon Chapin reports:

During the week ended July 30, 1910, 1,194 rats were collected, of which 913 were necropsied and examined for plague infection. No plague-infected rats were found.

During the month of July 4,215 rats were received and 3,421 necropsied and examined. None was found plague infected.

Record of Plague Infection.

Place.	Date of last case of human plague.		Date of last case of rodent plague.		Total number of rodents found infected since May, 1907.
California: Cities—					
San Francisco	Jan. 30	0,1908	Oct.	23,1908	398 rats.
Oakland		3, 1909	Dec.	1,1908	126 rats.
Berkeley		3, 1907		recorded.	
Los Angeles	Aug. 11	l, 1908	Aug.	21,1908	1 squirrel.
Counties—					
Alameda (exclusive of the city of Oakland)	Sept. 26	3,1909	May	30, 1910	81 squirrels, 1 wood rat.
Contra Costa	July 21	1008	June	1,1910	243 squirrels.
Contra Costa	None rec		June	6, 1910	2 squirrels.
Monterey.	do		do		4 squirrels.
San Benito	June 5	5. 1910	July	11, 1910	20 squirrels.
San Joaquin	None rec	orded.	June	29, 1910	5 squirrels.
San Louis Obispo.	do		Jan.	29, 1910	1 squirrel.
Santa Clara			June	22, 1910	22 squirrels.
Santa Cruz	do		May	17, 1910	3 squirrels.
Stanislaus	do		May	21, 1910	5 squirrels.
Washington:					
Seattle	Oct. 30	, 1907	Feb.	8, 1910	22 rats.

Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Exam- ined.	Found infected.
California: San Francisco Oakland. Berkeley	July 30, 1910 do	31 39	a 2, 221 b 742 c 174	1, 556 625 136	None. Do. Do.
	do		1 1,194	913	Do. Do.

a Identified, Mus norvegicus 1,619, Mus rattus 128, Mus musculus 389, Mus alexandrinus 85.
 b Identified, Mus norvegicus 625, Mus musculus 117.
 c Identified, Mus norvegicus 128, Mus rattus 1, Mus musculus 38, Mus alexandrinus 7.

Squirrels Collected and Examined for Plague Infection.

Place.	Week ended—	Trapped and shot.	Found dead.	Exam- ined.	Found infected
California:					
Cities—	1				1
San Francisco Counties—		· 10		10	None.
Alameda	do	186	169	250	Do.
Contra Costa		49		49	Do.
Fresno	do	168		161	Do.
Los Angeles	do	588	1	586	Do.
Madera		30		30	Do.
Merced	dodo	325	30	345	Do.
Monterey		611		603	Do.
Orange	do	137		137	Do.
Riverside	do	109		109	Do.
San Benito		221	2	218	Do.
San Bernardino		52		52	Do.
	do	432		425	Do.
San Luis Obispo	do	441	2	437	Do.
Santa Cruz	do	58		58	Do.
Solano		68		68	Do.

Other Animals Collected and Examined.

Place.	Week ended-	Animals collected.	Exam- ined.	Found infected.
California: Cities— San Francisco. Counties— Alameda. San Luis Obispo.	do	8 gophers	5 43 3	None. Do. Do.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended August 19, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama: Birmingham. Colorado: San Miguel County. Connecticut. District of Columbia. Florida: Gadsden County. Hillsboro County. Jackson County. Jefferson County. Santa Rosa County	July 1-31	1 2 1 1 1 2	1	

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received During Week Ended August 19, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Iowa:				
Benton County	July 1-31	2		
Cedar County	Traler 1_21	1		
Linn County	July 1-31	11		
Polk County	July 1-31	6		
Pottawattamie County		1 1		
Scott County Webster County	Tuly 1-31	i		
Kansas:				•
Allen County	June 1-30. June 1-30. June 1-30. June 1-30. June 1-30. June 1-30. June 1-30.	31		
Barton County	June 1-30	6		
Butler County	June 1–30	2		
Cherokee County	June 1-30	4		
Cowley County	June 1-30	1		
Crawford County	June 1-30	29	1	
Decatur County Dickinson County	June 1-30	4		
Edwards County	June 1-30	li		
Elk County	June 1-30 June 1-30	2		
Ford County	June 1-30	ī		
Greenwood County	June 1-30	10		
Harper County	June 1-30	2		
Harvey County	June 1-30	17		·
Jewell County	June 1-30	6		•
Kingman County	June 1-30	1		
Labette County—	Tuno 1 20		1	
Parsons Leavenworth County—	June 1-30	2		
Leavenworth	June 1-30	1	1	
Lyon County	June 1-30	11		·
McPherson County	June 1-30	4		
Montgomery County	June 1–30	20	1	
Coffeyville	June 1-30	3		
Neosho County	June 1-30			,
Norton County	June 1-30			
Osborne County	June 1-30	6		
Pratt County	June 1-30	1		
Rawlins County Reno County	June 1-30 June 1-30	8	3	•
Saline County	June 1-30	5		
Sedgwick County—	Tune I do	·		
Wichita	June 1-30	14		
Shawnee County	June 1-30	1		
Stafford County	June 1-30	2		
Trego County	June 1-30	1		
Wallace County	June 1-30	1		
Wyandotte County— Kansas City	June 1-30	23		
Louisiana:	June 1-50	20		
New Orleans	July 31-Aug. 6	6		
Maryland:	outy of mag. o	•		
Cumberland County	July 1-31	1		
Michigan:			ì	
Bay County	July 1-31	2	1	
Berrien County	July 1-31	1		
Cheboygan County	July 1-31	12		
Clare County	July 1-31	1 11		
Genesee County Grand Traverse County	July 1-31	2	•••••	
Gratiot County	July 1-31	5		
Huron County	July 1-31	ĭ		
Ingham County	July 1-31	6		
Ionia County	July 1-31	1		
Isabella County	July 1-31	2		
Kalamazoo County	July 1-31	4		
Keweenaw County	July 1-31	1		
Lapeer County	July 1–31	1	i	
Manistee County	July 1-31.	il		
Midland County	July 1-31.	2		
Missaukee County	July 1-31	1		
Montcalm County	July 1-31	1		
Saginaw County	July 1-31	2		
St. Clair County	July 1-31	17		
Salinac County	July 1-31	,1		
Shiawassee County	July 1-31	11 6		
Tuscola County	July 1-31	7		
Minnesota:	• u.y 1-71			
Pope County	Apr. 1-30		1	
St. Louis County	Apr. 1–30		1 !	

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received-During Week Ended August 19, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
New York: Entire State North Dakota:	June 1-30	44	2	
	July 1-31	1		
	July 1-31	4		· ·
	July 1-31	ī		
Ohio:				
Athens County	July 1-31	1		
	July 1-31	3		
Cuvahoga County	July 1-31	7	1	
	July 1-31	3		
	July 1–31	3	l	
	July 1-31	5		
Hancock County	July 1-31	4		
Hocking County	July 1-31	1		
Jefferson County	July 1-31	1		
Lucas County	July 1-31	3	l l	
Mahoning County	July 1–31	1		
Marion County	July 1-31	1		
Ross County		6	il	
Seneca County	July 1-31	1		
	July 1-31	5	l	
	July 1-31	1	l	

Reports Received from June 25 to August 12, 1910.

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

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham	. June 12-July 30	10		
Mobile		13		
Montgomery	June 12-25	6		
Total for State		29		
Arkansas:				
Fort Smith	June 19–25	1		
California, general	May 1-June 30	27		
Total for State		27		
Colorado:				
Alamosa County	Apr. 1-30		1	
Las Animas County			1 2	
Logan County	May 1-31		l īl	
Montrose County	Apr. 1-30		l il	
Archuleta County	June 1-30	7		
Conejos County	June 1-30	ż		
Delta County		2	1	
Denver County		9		
Huerfano County		10		
Kit Carson County	June 1-30	4		
Larimer County	June 1-30	1		
Las Animas County	June 1-30	3	l	•
Logan County	June 1-30	1		
Mesa County	June 1-30	1	l	
Montrose County		5		
Otero County	June 1-30	4		
Prowers County	June 1-30	7		
Rio Grande County	June 1-30	4		
Saguache County	June 1-30	1		<i>'</i>
San Miguel County	June 1-30	1		
Teller County	June 1-30	1		
Weld County	June 1-30	5		
Total for State		68	5	
District of Columbia	July 3-23	2		
Total for District		2		

SMALLPOX IN THE UNITED STATES—Continued.

Place.	Reports Received from June 25 to August 12, 1910.			
	Date.	Cases.	Deaths.	Remarks.
`lorida:				
Duyal County	June 19-25	2	l	
Gadsden County	July 3-30	6		
Hillsboro County	July 17-23	1		[
Jackson County	June 19-25	2		
Jefferson County	July 10-16	2		
Leon County	Mar. 1-31		1	İ
Liberty County	July 17–23 July 3–9	14		
Taylor County	July 3-9	1		
Walton County	June 12-18	1		
Total for State		29	1	
eorgia:				
Columbus	July 3-9	6		
Macon	Apr. 1–June 30	, š		
and out the same of the same o	11p1: 1 Valio 00 : : :	<u> </u>		
Total for State	 	14		
inois:				
Adams County	June 1-30	2		
Clay County	June 1-30	1		
Coles County	June 1-30	22		
Cook County	June 1-30	1		
Chicago	June 1–30	1		
Edgar County	June 1-30	2		
Franklin County	June 1-30	1		
Iroquois County	June 1-30	1		
Jo Daviess County	June 1-30	5		
Kendall County	June 1-30	1		
Knox County	June 1-30	5		
Madison County	June 1-30	17		
Marion County	June 1-30	6		
Montgomery County Peoria County	June 1-30	4		
Perry County	June 1-30	i		
Pulaski County	June 1-30	i		
Randolph County	June 1-30	ı î		
Richland County	June 1–30	2		
Rock Island County	June 1-30	2		
St. Clair County	June 1-30	1		
Sangamon County	Tune 1_30	1		
Tazewell County	June 1–30. June 1–30. June 1–30. June 1–30.	2		
Union County	June 1–30	4		
Wayne County	June 1–30	3		
Williamson County	June 1-30	2		
Total for State		92		
Total for State	•••••			
diana:	36			
Allen County	May 1-31	6		
Clinton County	May 1-31	1 4		
Delaware County Elkhart County	May 1-31	i	•••••	
Gibson County	May 1-31 May 1-31	i		
Grent County	May 1-31	5		
Grant CountyGreene County	May 1-31	9		
Howard County	May 1-31	18		
Marion County	May 1-31	5		
	May 1-31	18		
Orange County	May 1-31	20		
Orange County	AMBY L'UL			
Owen County St. Joseph County		3		
Owen County St. Joseph County Tipton County	May 1-31 May 1-31	1		
Owen County	May 1-31			
Owen County	May 1-31 May 1-31	1		
Owen County St. Joseph County Tipton County Vigo County Total for State	May 1-31 May 1-31	1 6		
Owen County St. Joseph County Tipton County Vigo County Total for State	May 1-31 May 1-31 May 1-31	98		
Owen County St. Joseph County Tipton County Vigo County Total for State wa: Benton County	May 1-31. May 1-31. May 1-31. June 1-30.	98 2		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 2 2		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 2 2 1		
Owen County St. Joseph County Tipton County Vigo County Total for State wa: Benton County Buchanan County Clayton County Dallas County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 2 2 2 1		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County Dallas County Delaware County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 2 2 1 1 10		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County Dallas County Delaware County Dubuque County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County Dellaware County Dubuque County Linn County Linn County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 2 2 1 1 10 1 25 13		
Owen County St. Joseph County Tipton County Vigo County Total for State wa: Benton County Buchanan County Clayton County Dallas County Delaware County Dubuque County Linn County Polk County	May 1-31. May 1-31. May 1-31. June 1-30. June 1-30.	98 		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County Dallas County Delaware County Dubuque County Linn County Polk County Pottawattamie County Scott County Scott County	May 1-31. May 1-31. May 1-31. June 1-30.	98 2 2 1 1 10 1 25 13 16 3		
Owen County. St. Joseph County. Tipton County. Vigo County. Total for State. wa: Benton County. Buchanan County. Clayton County. Dallas County. Delaware County. Dubuque County. Linn County. Polk County. Pottawattamie County. Scott County. Winneshiek County.	May 1-31. May 1-31. May 1-31. June 1-30.	98 2 2 1 10 10 125 13 16 3		
Owen County St. Joseph County Tipton County Vigo County Total for State Wa: Benton County Buchanan County Clayton County Dallas County Delaware County Dubuque County Linn County Polk County Pottswattamie County Scott County Scott County	May 1-31. May 1-31. May 1-31. June 1-30.	98 2 2 1 1 10 1 25 13 16 3		.
Owen County St. Joseph County Tipton County Vigo County Total for State wa: Benton County Buchanan County Clayton County Dallas County Delaware County Dubuque County Linn County Polk County Pottawattamie County Scott County Winneshiek County	May 1-31. May 1-31. May 1-31. June 1-30. 98 2 2 1 10 10 125 13 16 3			

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from June 25 to August 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas:	3. 4.00			,
Allen CountyAtchison County—	May 1-31	- 7		
Atchison	Apr. 1-May 31	. 7		
Butler County	Apr. 1-May 31	. 6		·
Cowley County Decatur County	Apr. 1-May 31 Apr. 1-May 31	10		
Dickinson County	May 1-31	. 6		
Doniphan County	Apr. 1–30	. 10		
Edwards County	Apr. 1-May 31 May 1-31	3 2		
Elk County	Apr. 1-30	í		
Finney County	Apr. 1-30	. 2		
Graham County	Apr. 1-May 31	6 46		
Harper County	Apr. 1-May 31 May 1-31	1		
Harvey County	May 1-31 Apr. 1-May 31	5] [
Jewell County	May 1-31 Apr. 1-May 31	15 5		
Kearny County Kingman County	Apr. 1-May 31	3		
Labette County—		ĺ		
Parsons	Apr. 1-May 31	9		
Lane County Leavenworth County	May 1-31 Apr. 1-May 31	2 8		
Leavenworth	May 1-31	ĭ		
McPherson County	May 1-31 Apr. 1-May 31	10		
Miami County Montgomery County	Apr. 1-May 31 Apr. 1-May 31	2 41	i	
Coffevville	Apr. 1-May 31	9	l	
Neosho County	May 1-31	15		
Norton County	Apr. 1-May 31	40		_
	Apr. 1-May 31 Apr. 1-May 31	6 27		\$ 3
	Apr. 1-30	3		
Phillips County	May 1-31	.6		
Reno County	Apr. 1-30	15 5		
Rush County	Apr. 1–30	3		
Saline County	Apr. 1-May 31	16		
Scott County Sedgwick County	Apr. 1-May 31 Apr. 1-May 31	5 7		•
Wichita.	Apr. 1-May 31	35		
Seward County	Apr. 1-May 31 May 1-31	2		•
Sheridan County Sherman County	Apr. 1-30	1 1		
Sumner County	May 1-31	4		
Thomas County	Apr. 1-May 31	2	1	
W yandouce County	Apr. 1-00	4 34		
Kansas City				
Total for State		452	2	
Centucky: Covington	June 26-July 2	1		
Total for State	·····	1		
ouisiana: Avoyelles Parish	June 1-30	12		
	June 1-30	2		
Iberia Parish	June 1-30	19		
	June 1-30 June 12-July 30	65		
	June 1–30	10		
St. Tammany Parish	June 1–30	2		
	June 1–30 June 1–30	25 30		
Total for State		165		
aine: Biddeford	May 1-31	1		
	-	1		
Total for State		- 1		
Total for State				
arvland:				
aryland: Allegany County—	=	1		
arvland:	May 1-31	1		

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from June 25 to Agust 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Massachusetts:				
Middlesex County	July 1-31	. 1		4
Suffolk County	June 1-July 31	8		
Total for State		. 9		
Michigan:				1
Alcona County	June 1-30	1		
Arenac County	June 1-30 June 1-30	2 5		ł
Chebovgan County	June 1-30	15		i
Clare County	June 1–30 June 1–30	11		
Eaton County	June 1-30	7		
Genessee County	June 1–30	21		
Gratiot County	June 1-30	3		
Huron County	June 1-30	11		
Ingham County	June 1–30 June 1–30	2		İ
Ionia County	June 1-30	5		
Isabella County	June 1–30 June 1–30	2 4		
Kalamazoo County Kent County	June 1-30	17		
Lapeer County	June 1–30	12	l	
Livingston County	June 1-30	17	[
Manistee County	June 1-30	8		
Marquette County	June 1-30 June 1-30	1 9		
Mecosta County	June 1-30	6		
Midland County	June 1–30 June 1–30	9		
Missaukee County	June 1-30	10		
Monroe County	June 1-30	2 2		
Muskegon County Newaygo County	June 1-30	2		
Osceola County	June 1-30	ĩ		
Ottawa County Roscommon County	June 1-30	1		
Roscommon County	June 1-30	4		
Saginaw County St. Clair County	June 1-30	30 28		
Sanilac County	June 1-30	20		
Shiawassee County	June 1-30	42		
Tuscola County	June 1-30	8		
Wayne County	June 1-30	_ 10		
Total for State		312	1	
(innesota:	-			
Rice County	Mar. 1-31		1	
Beltrami County	May 26-June 5	4	. .	
Blue County	June 6-12	1	1	
Carver County				
	June 13-19	1		
Faribault County	May 26-June 5	1		
Hennepin County Kittson County	May 26-June 5 May 26-June 26 June 6-19	1 52 2		
Hennepin County Kittson County	May 26-June 5 May 26-June 26 June 6-19	52 2 6		
Hennepin County Kittson County Koochiking County	May 26-June 5 May 26-June 26 June 6-19 May 26-June 5 June 13-19	52 2 6 32		
Hennepin County Kittson County Koochiking County Lesueur County Meeker County	May 26-June 5 May 26-June 26 June 6-19 May 26-June 5 June 13-19 June 6-12	1 52 2 6 32 1		
Hennepin County Kittson County Koochiking County Lesueur County Meeker County	May 26-June 5 May 26-June 26 June 6-19 June 13-19 June 6-12 June 13-26 June 6-12	1 52 2 6 32 1 14		
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County	May 26-June 5 May 26-June 26 June 6-19 May 26-June 5 June 13-19 June 6-12 June 6-12 June 6-12 May 26-June 5	1 52 2 6 32 1 14 1		
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County	May 26-June 5 May 26-June 26 June 6-19 May 26-June 5 June 13-19 June 6-12 June 6-12 June 6-12 May 26-June 5	1 52 2 6 32 1 14 1 1 10 .		
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County St. Louis County Steams County	May 26-June 5. May 26-June 26. June 6-19. May 26-June 5. June 13-19. June 6-12. June 13-26. June 6-12. May 28-June 5. do. June 20-26.	1 52 2 6 32 1 14 1 1 10 1 1 1 1 1 1		1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County St. Louis County Stearns County Steele County	May 26-June 5. May 26-June 26. June 6-19. May 28-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 28-June 5. June 20-26. June 20-26. June 20-99.	1 52 2 6 32 1 14 1 1 10 .		1.:
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County St. Louis County Stearns County Stearns County Steele County Wabasha County	May 26-June 5. May 26-June 26. June 6-19. May 26-June 5. June 13-19. June 6-12. June 13-26. June 6-12. May 28-June 5. do. June 20-26.	1 52 2 6 32 1 14 1 1 10 1 2 2		1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County St. Louis County Stearns County Steele County	May 26-June 5. May 26-June 26. June 6-19. May 28-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 28-June 5. June 20-26. June 20-26. June 20-99.	1 52 2 6 32 1 14 1 10 10 2	1	1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Stearns County Steele County Total for State ississippi:	May 26-June 5. May 26-June 26. June 6-19. May 28-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 28-June 5. June 20-26. June 20-26. June 20-99.	1 52 2 6 32 1 14 1 1 10 1 2 2	1	l.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Stearns County Steele County Total for State Lississippi:	May 26-June 5. May 26-June 6. June 6-19. May 26-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 26-June 5. June 6-12. May 26-June 5. June 20-26. June 20-26. June 13-26.	1 52 2 6 32 1 1 14 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1	1	1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Stee County Steele County Total for State Total for State Total for State	May 26-June 5. May 26-June 6. June 6-19. May 26-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 26-June 5. June 6-12. May 26-June 5. June 20-26. June 20-26. June 13-26.	1 52 2 2 6 6 32 1 1 1 4 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1	1	1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Steams County Steele County Total for State Total for State Total for State	May 26-June 5. May 26-June 26. June 6-19. May 26-June 5. June 13-19. June 13-26. June 6-12. June 6-12. May 26-June 5. June 6-12. May 26-June 5. June 13-26. June 13-26. June 13-26.	1 52 2 6 6 32 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	1	1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Stearns County Stearns County Total for State Total for State Tississippi: Natchez Total for State Statesouri: Kansas City St. Louis.	May 26-June 5. May 26-June 6. June 6-19. May 26-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 26-June 5. June 6-12. May 28-June 5. June 20-26. June 6-19. June 13-26.	1 52 2 6 6 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	<i>1.</i>
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County St. Louis County Stearns County Stearns County Total for State Total for State Tississippi: Natchez Total for State Statesouri: Kansas City St. Louis.	May 26-June 5. May 26-June 6. June 6-19. May 26-June 5. June 13-19. June 13-19. June 6-12. June 6-12. June 6-12. May 26-June 5. June 6-12. May 28-June 5. June 20-26. June 6-19. June 13-26.	1 52 2 6 6 32 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	1	1.
Hennepin County Kittson County Koochiking County Lesueur County Meeker County Ramsey County Renville County Rice County St. Louis County Stearns County Steele County Total for State ississippi: Natchez Total for State issouri: Kansas City St. Louis	May 26-June 5. May 26-June 26 June 6-19 May 26-June 5. June 13-19 June 13-26 June 13-26 June 6-12 May 26-June 5 do June 20-26 June 6-19 June 13-26 June 13-26 June 30-26 June 4-19 June 13-26	1 52 2 6 6 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1.

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received from June 25 to August 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Montana:				
Custer County	Apr. 1-30 June 1-30		. 1	
Beaverhead County	June 1-30	1		
Cascade County	June 1-30			
Dawson County Fergus County	June 1-30 June 1-30	2		
Flathead County	June 1-30			
Meagher County	June 1-30	1		
Park County	June 1-30	2		
Rosebud County	June 1–30 June 1–30	2 9		
Butte County	June 1-30	27		
Yellowstone County	June 1-30	2		
Total for State		52	1	
Lincoln	Apr. 1-June 30	30	l	1
lebraska: LincolnSouth Omaha	June 1-30	3		İ
Matal for State		<u>à</u> 3		
Total for State	•			
lew Jersey: Cumberland County	Tuna 1Tuly 21	4	1	
- 1	-			
Total for State		4		
lew York: Erie County—				
Buffalo	May 1-31	1		
Tonawanda Township.	May 1-31	2		•
Niagara County				
Niagara Falls	May 1-31	1		
North Tonawanda St. Lawrence County	May 1-31	1 19		
Schenectady County	May 1-31	2		
	Ť	26		
Total for State	•••••			
orth Carolina:				
	Feb. 1-28		1 1	
	Feb. 1-28 Mar. 1-May 31			
Alexander County	Mar. 1-May 31			
Anson County	Apr. 1 May 31			
Ashe County	Mar. 1-31			
Beaufort County	Mar. 1-31	4		
Bladen County	Mor 1-May 31	16 12		
Caldwell County	Mar. 1-May 31	9	i	
Catawba County	Mar. 1-May 31	38		
Chatham County	Mar. 1-31 Mar. 1-May 31 Mar. 1-May 31 Mar. 1-May 31 Mar. 1-Apr. 30 Mar. 1-31	3		
Chowan County	Mar. 1-31	3		
Columbus County Craven County	Mor 1_31	23 1		
Currituck County	Mar. 1-May 31			
Davidson County	Mar. 1-31			
Davie County	Mar. 1-31	.8		
Durham County	Mar. 1-May 31	18		
Forsyth County	Mar. 1-31	17 5		
Franklin County	Mar. 1-May 31	12	2	
Graham County	Mar. 1-Apr. 30	8		
Greene County		19		·
Guilford County	Mar. 1-May 31	44 40	· · · · · · · · · · · ·	
Halifax County Henderson County	May 1-31	40		
Hertford County	Mar. 1-31	i		
Iredell County	May 1-31	. 		Several.
Johnston County	Apr. 1-May 31	4		Several in March.
	Mar. 1-31	1 5		
	Mar. 1–31 Mar. 1–May 31	11		
Lincoln County	Mar. 1-May 31	2		
Madison County	Apr. 1-30	5		
Martin County	Apr. 1-30	4		
Mecklenburg County	Mar. 1-May 31 Mar. 1-May 31	15		
Mandanam Cara-t-		47		
Montgomery County	Mar 1_May 21			
Nash County	Mar. I-May 31	50 12		
New Hanover County	Mar. 1-May 31 Mar. 1-May 31 Mar. 1-May 31 Mar. 1-May 31	50		

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received from June 25 to August 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.	
North Carolina—Continued.					
Perquimans County		1			
Person County		23			
Polk County	Mar. 1-31	1 7			
Richmond County	Apr. 1-30	2 3	·····		
Robeson County	Apr. 1-May 31 Mar. 1-31				
Rowan County	Mar. 1-May 31	1 20	1		
Sampson County	May 1-31	2 5			
Scotland County Stanly County	May 1-31	20			
Stokes County	Mar. 1-31	64			
Surry CountyUnion County		25			
Vance County Wake County Warren County Washington County Washington County	Apr. 1-May 31 Apr. 1-30 Apr. 1-30 Mar. 1-Apr. 30 Apr. 1-May 31 Apr. 1-May 31 Apr. 1-May 31	4			
Wake County	Apr. 1-May 31	22			
Warren County	Apr. 1-30	20			
	Apr. 1-May 31	20			
	Apr. 1-May 31	6			
Wilkes County		1 00	·····i		
Wilson County Yancey County	Mar. 1-May 31 Mar. 1-31	26	1		
•					
Total for State		995	7		
orth Dakota: Cass County	June 1-30	,		:	
Cavalier County	June 1–30	l î			
Grand Forks County	June 1–10	4	. 	·	
Logan County McKenzie County	June 1–30 June 1–30	1			
Pierce County					
Traill County	June 1-30				
Ward County	June 1-30	4			
Total for State		20		Donate a cost of alexa	
klahoma, general Canadian County	Jan. 1-31		1	Reported out of date.	
Comanche County	Apr. 1–30		3		
Oklahoma County	Apr. 1-30		4 2		
Pottawatomie County Atoka County	Apr. 1-30 Apr. 1-30 May 1-31 May 1-31 May 1-31 May 1-31	20		•	
Beckham County	May 1-31	2			
Blaine County	May 1-31	8			
Caddo County	May 1-31	17			
Choctaw County	May 1-31	i			
Coal County	May 1-31	5 4	i		
Custer County	Mav 1-31	1 9			•
Garvin County	May 1-31	1			
Grady County	Apr. 1-30 May 1-31	6	1 6		
Haskell County	May 1-31	7			
Hughes County	May 1-31	42			
Jefferson County Kiowa County	May 1-31	3			
Lincoln County	May 1-31				
McLain County	May 1-31				
McIntosh County Murray County	May 1-31 May 1-31				
Muskogee County	May 1-31				
Noble County	May 1-31	8			
Nowata County Okfuskee County	May 1-31 May 1-31	3 1			
Oklahoma County	May 1-31	1	1		
Okmulgee County		2			
Pawnee County	May 1-31 May 1-31	4 10			
Pittsburg County	May 1-31 May 1-31 May 1-31 May 1-31 May 1-31 May 1-31	6	1		
Pontotoc County	May 1-31	12	•••••		
Seminole County Texas County	May 1-31 May 1-31	2			
Tillman County	May 1-31	2		• .	
Tulsa County	May 1-31	1	1		
Washita County	May 1-31	1			
Total for State		214	22	•	

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from June 25 to August 12, 1910.

	Date.	Cases	. Deaths.	Remarks.
Ohlor		-		
Ohio: Alien County	June 1-30	.] 8	3	
Butler County	June 1-30	. 1		
Clinton County	June 1-30			-
Columbiana County	June 1-30			-
Cuyahoga County	June 1–30 June 1–30	. 9		1
Fairfield County Franklin County	June 1-30] 4		1
Hamilton County	June 1-30	: i		1
Hocking County	June 1-30]
Lucas County	June 1-30	. 2	1	
Perry County	June 1–30	. 1		.
Pickaway County	June 1-30	. 1		.
Portage County	June 1-30			-
Ross County	June 1–30	. 66		•
Scioto County	June 1-30 June 1-30	28		·[
Stark County Wayne County	June 1-30	2		'
Wood County	June 1-30	2	1	1
,, ood oodaa, ,	7			
Total for State		168		
ennsylvania, general	Apr. 1-30 May 1-June 30	29	2 3	·
Total for State		29	5	
South Carolina: Charleston	June 1-July 31	28		
Total for State		28		
ennessee: Benton County—				
Camden Davidson County— Nashville	July 1-7	2 2		
Hamilton County— Chattanooga	June 12-July 16	4		
Knox County— Knoxville	June 12-July 16	- 8		
Shelby County Memphis		39 8		
Total for State		63		
exas, general	Apr. 1-May 31	593	13	
Total for State	1	593	. 13	
tah, general	Mar. 1-31	112		l
Boxelder County	Mar. 1-31 May 1-31	1		Report received out of date.
Cache County	May 1-31	6		
Davis County	May 1-June 30	34		• .
Juab County	May 1-31. May 1-June 30 June 1-30 May 1-June 30	2 28	1	
Utah County	May 1-June 30	2		
Weber County	May 1-31	18		
weber county	223y 1-01	10		
Total for State	[203	1	
	-			
rginia: Lynchburg	June 12-18	1		***
		1		
Total for State	1			
	-]	4	
ashington, general	-		4	
ashington, generalisconsin:	Feb. 1-Mar. 31		4	
ashington, generalisconsin: Ashland County	Feb. 1-Mar. 31	16	4	
ashington, general	Feb. 1-Mar. 31 June 1-July 31 July 1-31	16 1 5	4	
ashington, general isconsin: Ashland County Barron County Brown County Douglas County	Feb. 1-Mar. 31 June 1-July 31 July 1-31	16 1 5 3	4	
ashington, general isconsin: Ashland County Barron County. Brown County. Douglas County. Dunn County.	Feb. 1-Mar. 31	16 1 5 3	4	
Sashington, general	Feb. 1-Mar. 31	16 1 5 3 1	4	
ashington, general ashington, general Ashland County Barron County Brown County Douglas County Dunn County Eau Claire County Florence County	Feb. 1-Mar. 31	16 1 5 3 1 4	4	
ashington, general Ashland County Barron County Brown County Douglas County Dunn County Eau Claire County Florence County Ford du Lac County Ford du Lac County	Feb. 1-Mar. 31	16 1 5 3 1 4 4	4	
ashington, general Ashland County Barron County Brown County Douglas County Douglas County Dunn County Eau Claire County Florence County Fond du Lac County Kenosha County Lasewatta County	Feb. 1-Mar. 31 June 1-July 31 June 1-30 July 1-31 July 1-31 June 1-July 31 June 1-July 31 June 1-30 July 1-31 July 1-31	16 1 5 3 1 4 4 1	4	
ashington, general ashington, general Ashland County Barron County Brown County Douglas County Dunn County Eau Claire County Florence County	Feb. 1-Mar. 31	16 1 5 3 1 4 4	4	

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received from June 25 to August 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin—Continued. Pierce County Polk County St. Croix County St. Croix County Waupaca County Waupaca County Total for State Grand total for the United States	July 1-31. July 1-31. June 1-30. July 1-31. June 1-30. June 1-30. June 1-30. July 1-31.	1 5 1 5 8 2 1 69	63	

PLAGUE IN THE UNITED STATES.

Reports Received from June 25 to August 12, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
California: San Benito County— Hollister	June 5-11	1	1	

MORBIDITY AND MORTALITY.

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

[For smallpox and plague see special tables.]

	Week	Esti- mated	Total deaths from	cul	ber- osis.	ph	'y- loid ver.		rlet ær.		ph- ria.	Mea	sles.	in	oop- g igh.
Cities.	ended—	popula- tion, 1910.	ali causes.	Cases.	Deaths.	Cases.	Deaths.	Casses.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Allentown, Pa		48,111	27 13	3	1	2	1	1	1	 1		3		2	
Altoona, Pa	do	51,782	12	j		6	2	i		i	••••		••••	• • • •	
Auburn, N. Y	July 30	34,709	18	i	i		ī	l î				3			
Baltimore, Md	Aug. 6	583, 475	211	37	26	77	4	10		8		4		3	1
Bayonne, N. J.	.do	51,802					١			3					
Biddeford, Me Binghamton, N. Y	do	17,847	5	-,			1	3				3			
Binghamton, N. Y	do	46,545	13	5	3	1	i					6			
DOSWII, Mass	uv	629,868	195	55	18	24	١	19	1	48	1	23	1	20	
Boulder, Colo	do		5			ļ					• • • •		• • • •		
Braddock, Pa	do	21,594	12					1		1	• • • •	1	• • • •	• • • •	
Bridgeport, Conn	do	93,126	26	3	3					2	• • • •		• • • • •	• • • •	,
Brockton, Mass	do	55, 525	7	6	·- <u>-</u> -	- 3	1	2	• • • •	:-	• • • •	2	i	• • • •	
Cambridge, Mass	do	102,982	35	4	7	:-		:-		3	••••	4	1	• • • •	• • • •
Cambridge, Ohio	go	12, 121	1	1	••••	2	<u>';-</u>	1			• • • •				
Camden, N. J	ao	90,791	ļ <u>.</u> .	• • • •		4	1			4	• • • •		••••	• • • •	
Carbondale, Pa	ao	15,939	7 13	••••		9	l··i·				• • • •		••••	··i·	
Charlotte, N. C	00	36,320	13	2	2	y	1			1	• • • • •		••••	-	• • • •.
Chattanooga, Tenn Chelsea, Mass	do	34,773 40,506	14	_	i	3		;-			• • • •		• • • • •		
Chicago III	uo	2,282,927		110	78	76	5	61	5	86	ii	67	i	62	
Chicago, Ill	do	21, 225	13	110		10	١٠	01	١٠	50	**	٠.	•	٠	-
Cincinnati, Ohio	do	353, 108	10	21	17	9	2	12		2	••••	3		2	
Cleveland, Ohio	Aug. 5	522, 475	186	21	14	14	2	7	2	23	2	ľĭl		31	3.
Clinton, Mass		12,543	100		. **	**	"	•	-						
Columbus, Ga		17,925	î	••••											
Columbus, Ohio	do	158, 649	68	2	10	8		3						2	
Concord, N. H.	do	22, 260	10							1					
Covington, Ky	do	52, 325	21	1	3	16	l	1		!		اا	ا	5	

MORBIDITY AND MORTALITY-Continued.

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

Cities.	Week ended popula-		Total deaths from	cul	ıber- losis.	pl	l'y- hoid ver.		arlet ver.	Di	iph- eria.	Mea	asles.	i i	oop ng ngh.
Oracs.	ended—	popula- tion, 1909,	all	Cases.	Deaths.	Casses.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	80 80 80 80 80 80 80 80 80 80 80 80 80 8	Cases.	Deaths.	
Danville, Ill. Dayton, Ohio Detroit, Mich Detroit, Mich Duluth, Minn Dunkirk, N. Y Elizabeth, N. J Elyria, Ohio Evansville, Ind Evansville, Ind Evansville, Ind Evansville, Ind Evansville, Ind Galesburg, Ill Galesburg, Ill Galesburg, Ill Galesburg, Ill Galesburg, Ill Galesburg, Ill Galesburg, Ill Hartison, N. J Hartiord, Conn Harrison, N. J Hartiord, Conn Haverhill, Mass Hoboken, N. J Johnstown, Pa Kalamazoo, Mich Kansas City, Kans Kearny, N. J Johnstown, Pa Kalamazoo, Mich Kansas City, Kans Kearny, N. J Kingston, N. Y Knoxville, Tenn La Crosse, Wis La Fayette, Ind Lancaster, Pa Lawrence, Mass Lexington, Ky Do Los Angeles, Cal Lowell, Mass Lynenburg, Va Lynn, Mass Manchester, N. H Manitowoc, Wis Mansfield, Ohio Marinette, Wis Marinette, Wis Marinette, Wis Marinette, Wis Manitoro, Mass Memphis, Tenn Milwaukee, Wis Montclair, N. J Moottolair, N. J Moottolair, N. J Moottolair, N. J Moottolair, N. J New Bedford, Mass New Orleans, La Newton, Mass New Orleans, La New Orleans, La Newton, Mass New Orleans, La Newton, Mass New Orleans, La Newton, Mass New Orleans, La Newton, Mass New Orleans, La Newton, Mass Northampton, Mass Northampton, Mass Northampton, Mass Northampton, Mass Pakmer, Mass Philasfield, N. J	Aug. 6	28,413 111,889	7 51	6	6	3		· · · · ·		1		2		i-	
Detroit, Mich	do	393, 536	188	2	i		. i	9	6	16 4	2	l			
Dunkirk, N. Y	do	76, 915 18, 778	38 7		.	3	2	1						1	
Elizabeth, N. J	do	69, 154	22		4			4		1	l				
Evansville, Ind	do	67,782			1	7		ī				6	1		
Fall River, Mass	do	33,886 106,661	10 51	1	5	9	i i	5		i	i i	4		2	
Freeport, Ill	do	22,687	7 6			1	ļ								
Gloucester, Mass	do	25, 501	5		i										
Grand Rapids, Mich	do	107,948	25 8	1	····	5	i	2		-i		3	• • • •		• • • •
Harrison, N. J.	do	15,050	3		ļ	l	.	2		3			ļ	 	
Haverhill, Mass	do	38, 485	27 10	4	4	2 2		1		4		6	ï	2 1	i
Hoboken, N. J	do	15 776	2	4	ï	1		1				2		1	
Jacksonville, Fla	do	42, 173	22			35	3			<u>-</u> -		<u>.</u> .			,
Jersey City, N. J Johnstown, Pa	do	258, 965 47, 745	94 16		11	2 2		1 4	1	7 2		1		1	
Kalamazoo, Mich	do		16	2	1	ī	1	1 2	2	1				6	••••
Kansas City, Kans Kearny, N. J	do	16,306	26 8		i		4			1			,		
Kingston, N. Y	do	26, 285	9		2									• • • •	• • • •
La Crosse, Wis	do	29, 261	5		<u>.</u> .			7		i					
La Fayette, Ind	do	19,989 50 907	2 17	··i·		3	¦	• • • •		···i		···i·			
Lawrence, Mass	do	77, 541	32 7	2	4	4	ļ	2		2		ī			1
Do	do	31, 171	15		3	4				··i·				i	
Los Angeles, Cal	July 30	05 100	73 36	8	15	9	1	3 4	·-;-	2		٠٠;٠		4	1
Lynchburg, Va	do	30,064			l	10				··i		2			
Lynn, Mass	do	85, 571 69, 848	18 26	2	2	1	••••	2		1 4	7	4		••••	• • • •
Manitowoc, Wis	do	13,680	2	ī		 -						••••			••••
Marinette, Wis	do	14, 513	3			4									••••
Marlboro, Mass	July 30	14, 537	5 14	1	• • • •	••••	··i	4							
Medford, Mass	Aug. 6	21, 128	6	 i	1	-::-	ļ		····			i i		2	-
Memphis, Tenn Milwankee, Wis	do	140, 145 337, 117	62 95	1 25	8 5	12 19	···i	1 25	i	1 26	4	5		··;·	···i
Montclair, N. J	do	18,778	8		••••	1		••••		··i·	··i·				••••
Montgomery, Ala	do	44,967	23	••••	2	ï									
Morristown, N. J	do	13,025 28,632	9	••••	1	i		••••		1	• • • •	••••		ii	
Nanticoke, Pa	do	14, 188	4					2		4					· · · · ·
Newark, N. J New Bedford, Mass	do	315,014 86,282	121 41	16 1	18 1	18 4		8		9		·i		::::	• • • • • • • •
Newburyport, Mass	do	14,872	5 122	21	21	1 10	;.	 5		;-		4-			<u>2</u>
Newton, Mass	do	40,067	6	2			1			4	:::	6		::::	<u>.</u>
New York, N. Y Niagara Falls N Y	do	4,563,604 33,407	1,413	674	137	97 2	9	84 1	2	211	17	177	11	60	9
Norristown, Pa	do	24,739	9	15		3						2		25	••••
North Adams, Mass	do	20,100 21,146	7 8	3	"i"	::::						::::	1	::::	• • • •
Oakland, Cal	do	28 A81	21	1	2	1	1	2		1		••••		1	• • • •
Ottumwa, Iowa	do	22,015	7 7												
Paducah, Ky Palmer, Mass	do		8		2		1	••••		••••					••••
Peekskill, N. Y	do	16,042	4		1			1		40	ابي	4			••••
r nuadeipnia, Pa Pittsfield, Mass	do]	1,540,480 28,286	15	109	53	37	1	23		46	6	42	7	117	11
Plainfield, N. J.	do	21,567	3	1 2				اا							

MORBIDITY AND MORTALITY-Continued.

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

Cities.	Esti- week mated		d deaths		Tuber- culosis.		Ty- phoid lever.		Scarlet fever.		ph- ria.	Measles.		Whoop- ing cough.	
	ended—	popula- tion, 1909.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Portsmouth, N. H. Portsmouth, Va. Pottstown, Pa. Pottstown, Pa. Providence, R. I. Racine, Wis. Rock Island, Ill Reading, Pa. Sacramento, Cal St. Louis, Mo. Salt Lake City, Utah. San Antonio, Tex. Sanatoga Springs, N. Y. Schenectady, N. Y. Schenectady, N. Y. Schenectady, N. Y. Somerville, Mass. South Bend, Ind Spokane, Wash. Steelton, Pa. Superior, Wis. Taunton, Mass. Toledo, Ohio Trenton, N. J. Waltham, Mass. Warren, Ohio. Washington, D. C. Wilkes-Barre, Pa. Wichita, Kans. Wilmington, Del Woburn, Mass. Yonkers, N. Y. York, Pa. Zanesville, Ohio.	do	28, 225 14, 065 221, 673 25, 352 25, 352 32, 78 688, 706 65, 464 68, 969 76, 741 47, 199 15, 055 42, 011 30, 898 178, 75, 063 29, 083 11, 425 237, 044 65, 743 90, 260 14, 897 42, 897 44, 897 46, 897 46, 897 46, 897 46, 897 46, 897 46, 897 46, 897 46, 897 46, 897	11 10 67 3 6 6 30 12 213 30 7 8 25 114 311 32 8 3 36 7 8 1 119 21 16 32 4 26 10	14 3 28 2 3 2 6 7	1 1 6 2 19 6 1 1 2 2 1 1 1 3 4 1 1	12 3 3 3 5 14 5 4 1 1 1 2 9 3 3 5 3 5 5 22 1 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 4 1 1 3 7 2 2 2	1	1 1 3 15 1 2 6 1 1 2 2 7 1 1 1 3 4	1	3 23 1 3 3 4 1 1 1	1	12 3 34 1 4 1 1	2

FOREIGN AND INSULAR.

CHINA.

AMOY-Plague-Inspection of Vessels.

Acting Assistant Surgeon Morehead reports July 5:

Week ended July 2. The plague epidemic continues. Pneumonic cases seem to be on the decrease and bubonic cases on the increase.

Bill of health was issued to the British steamship *Taisang* on July 2. There were 61 cabin and 107 steerage passengers for Manila. All on board were examined immediately prior to sailing. The crew and steerage passengers were bathed and their clothing was disinfected by steam. The ship anchored in midstream.

HONGKONG-Plague.

Passed Assistant Surgeon Foster reports, June 21 and 29 and July 7: Week ended June 18. Quarantine restrictions enforced by and against Hongkong remain as reported June 11, 1910.

Two cases of plague, with 2 deaths, were reported during the week.

INSPECTION AND DISINFECTION OF VESSELS.

Vessels are need hills of health	11
Vessels granted bills of health	910
Total cabin passengers	149
Total stagrage neggengers	745
Total steerage passengers	726
Passengers bathed	748
Pieces of baggage disinfected.	465
Pieces of baggage disinfected	3
Crews' quarters disinfected:	•
By formaldehyde	8
By sulphur	3
Week and ed Tune 05 No shames in assessmentine meet misting and a	

Week ended June 25. No change in quarantine restrictions enforced by or against Hongkong.

During the week 2 cases of plague with 2 deaths and 2 cases of smallpox with 1 death were reported.

INSPECTION AND DISINFECTION OF VESSELS.

Vessels granted bills of health
Total members of crews
Total cabin passengers. Total steerage passengers. Members of crews bathed.
Total steerage passengers
Members of crews bathed
Passengers bathed Pieces of baggage disinfected. Vessels disinfected to kill rats. Crewe' quarters disinfected:
Pieces of baggage disinfected
Vessels disinfected to kill rats.
Crews' quarters'disinfected:
By sulphur
By formaldehyde

Week ended July 2: No change in quarantine restrictions enforced by or against Hongkong.

During the week 2 cases of plague with 2 deaths were reported.

INSPECTION AND DISINFECTION OF VESSELS.

Vessels granted bills of health	4
otal members of crews	73
Total cabin passengers4	18
Otal steerage passengers	0
fembers of crews bathed	(0
Persongers hathed	R
Pieces of baggage disinfected	8
Pieces of baggage disinfected	1
rews' quarters disinfected:	
By formaldehyde	3
By sulphur	1

SHANGHAI.-Inspection of Vessels.

Acting Assistant Surgeon Ransom reports, July 6, 15, and 20:

Inspection of vessels week ended July 2.

Vessels granted bills of health	4
Total number of crews	7
Total number of cabin passengers4	:6
Total number of steerage passengers 1: Bathed and effects disinfected, crew 1:	8.
Bathed and effects disinfected, crew	6.
Bathed and effects disinfected, steerage	0
Disinfected, pieces of baggage 4	6
Disinfected, pieces of freight	
Disinfected, vessels	
Viséed, packages of freight 40	2

The steamship Awa Maru, Hongkong to Seattle via Keelung, Shanghai, and Japan ports, was in this port for 25 hours anchored in the stream. Loading was carried on during the day and night, rat guards being used on the lines to lighters, etc. Liberty was allowed by the master to the officers and cabin passengers. Inspection was held on board at the hour of the ship's departure.

The steamship General Weeks, a seagoing tug, built here for the United States Army transport service, was inspected and her Asiatic crew bathed and their effects steamed at the hour of her departure for Manila.

The U. S. naval auxiliary steamer Nanshan applied for a bill of health to Manila and various Chinese ports at 10 a. m. on the 27th, the vessel having been in the stream at Woosung for forty-five hours without liberty to anyone, except the master. The vessel was to sail at 11 a. m., and the bill of health was made out without inspection, in view of the extended itinerary of the vessel, but the captain failed to take it up.

The steamship *Indrasamha*, Kobe to New York via this port, Hongkong, and Suez Canal, was in this port for three and one-half days anchored in the stream. Loading was carried on day and night, and liberty was allowed to the entire personnel. Inspection was held on board as late as possible the afternoon before the sailing of the vessel (she left at 4 a. m. on the 29th).

Morbidity.—The weekly report of the municipal health officer shows, among foreigners, no new cases of communicable disease. Among natives, deaths from smallpox 2, diphtheria 1, tuberculosis 14. Total deaths reported: Foreigners 2, natives 158.

Inspection of vessels week ended July 9.

Vessels granted bills of health	3
Total number of crew	393
Total number of steerage passengers	568
Total number of cabin passengers	157
Bathed and effects disinfected, crew	28
Bathed and effects disinfected, steerage	5
Disinfected, pieces of baggage	61
Disinfected, pieces of baggage. Disinfected, pieces of freight.	131
Disinfected, vessels	U
Viséed packages of freight	35, 332

The steamship Wyneric, Yokohama to New York, was in this port for seven days anchored in the stream. Liberty was allowed to the entire personnel and a partial new crew was shipped at this port. Loading was done by daylight only. The Asiatic crew was bathed and inspected and their effects were disinfected by steam at the hour

of sailing.

The steamship Mongolia, Manila to San Francisco, was in this port for twenty-two hours at Woosung. Loading was done by daylight entirely, and liberty was allowed to the officers and cabin passengers only. There was one case of pneumonia on board in the person of a cabin passenger. The steerage passengers from Shanghai were bathed and their effects were disinfected by steam immediately before departure, and inspection was held at the tender at the hour of sailing.

The steamship *Kumeric*, Manila to Seattle, was in this port for twenty-four hours anchored in the stream. Loading was carried on during both day and night and no rat guards were used on the lines. The officers and steerage passengers were allowed liberty by the master, which so far as the steerage is concerned is contrary to the rules of the service enforced at this port. The fact was noted on the bill of health. The sailing of the vessel was postponed to Sunday, the 10th instant, at 10 a. m., at which time inspection of the vessel and personnel was held on board.

Morbidity.—The weekly report of the municipal health department shows among natives deaths from smallpox, 2; scarlet fever, 5; tuberculosis, 11. Total deaths reported: Foreigners, 2; natives, 188.

Reports from Hankow up to the 9th instant show that typhus fever, relapsing fever, and tuberculosis are present to an unknown degree among the natives.

Inspection of vessels week ended July 16.

Vessels granted bills of health	3
Total number of crew	78
Total number of steerage passengers. 2 Total number of cabin passengers. 2 Bathed and effects disinfected:	02
Total number of cabin passengers.	97
Crew	0
Steerage	1
Disinfected pieces of baggage Disinfected pieces of freight Disinfected vessels	4
Disinfected pieces of freight	0
Disinfected vessels.	Ō
Viséed pieces of freight	31

The steamship Tenyo Maru, Hongkong to San Francisco, was in this port at Woosung for twenty-two hours. Liberty was allowed by the master to the officers and cabin passengers, and loading was carried on during daylight only. Inspection was held at the tender at the hour of departure.

The steamship Ashtabula, from this port to New York via Suez Canal and ports, was in this port for ten days at oil wharf. No rat guards were used, as the wharf is practically rat proof. Liberty was allowed to the entire crew. The whole fireman gang deserted the ship at the hour of sailing because two of their number were burned by a flareback from the oil burners. The crew was not bathed and disinfected here because of the probable change of crew and the many subsequent ports of call. Inspection was held on board at the hour of departure.

The steamship *Indradeo*, Yokohama to New York, was in this port for five days anchored in the stream. Liberty was allowed to the officers of the ship only and loading was done entirely by daylight.

Inspection was held on board at the hour of departure.

Morbidity.—The weekly report of the Municipal Health Department shows: Among foreigners new cases of enteric fever 1, diphtheria 1. Among natives deaths from smallpox 6, diphtheria 1, tuberculosis 10. Total deaths reported, foreigners 5; natives, 190.

COSTA RICA.

LIMON, Fruit Port-Yellow Fever-Inspection of Vessels.

Acting Assistant Surgeon Mengis reports:

A death from yellow fever was reported at Siquires on July 31, 1910, by the local medical officer. The patient was a Costa Rican woman who had been in Siquires for at least 3 months.

Bills of health issued as follows:

WEEK ENDED JULY 30.

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
July 24 25 26 26 27	Limon	Porto Rico New Orleans	55 23		30
27 v 28 28 29 30	Hippolyte Dumois	Santiago, Cuba	25 25 23 80	b 1	3

a Fumigated.

b Immune.

CUBA.

HABANA-Inspection of Vessels.

Passed Assistant Surgeon de Valin reports, August 1:

Week ended July 30. Bills of health issued 20, vessels inspected and passed 16, members of crew of outgoing vessels inspected 815, passengers of outgoing vessels inspected 702.

No quarantinable disease has been reported in the island during the

week.

ECUADOR.

GUAYAQUIL-Plague and Yellow Fever.

Passed Assistant Surgeon Parker reports July 18: During the period July 1 to 15, 1910, there were reported 4 cases of bubonic plague with 2 deaths, and 9 cases of yellow fever with 3 deaths.

HAWAII.

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

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

At Hilo the last case of human plague occurred March 23, 1910. The last plague-infected rat was found at Piihuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, July 25 and 29:

HONOLULU-Plague-prevention Work.

It has been arranged, after consultation with the president of the territorial board of health, that all interisland vessels that have to lie alongside wharves at Honolulu and Hilo shall be fumigated to destroy rats once a month.

Week ended July 23, 1910.

Trapped. 672 Found dead 2 Shot from trees 24 Examined bacteriologically 614 Plague rats 0 Classification of animals trapped: 60 Mus alexandrius 294 Mus norvegicus 103 Mus rattus 207 Mongoose 8 Classification of rats shot from trees: 8 Mus alexandrinus 4 Mus rattus 16	Total rats and mongoose taken	701
Found dead	Trapped	672
Examined bacteriologically 614 Plague rats. 0 Classification of animals trapped:	Found dead	
Plague rats. 0 Classification of animals trapped: 60 Mus alexandrinus. 294 Mus norvegicus. 103 Mus rattus. 207 Mongoose. 8 Classification of rats shot from trees: 8 Mus alexandrinus. 4 Mus rattus. 16		
Plague rats. 0 Classification of animals trapped: 60 Mus alexandrinus. 294 Mus norvegicus. 103 Mus rattus. 207 Mongoose. 8 Classification of rats shot from trees: 8 Mus alexandrinus. 4 Mus rattus. 16	Examined bacteriologically	614
Classification of animals trapped: Mus alexandrinus 60 Mus musculus 294 Mus norvegicus 103 Mus rattus 207 Mongoose 8 Classification of rats shot from trees: 8 Mus alexandrinus 4 Mus rattus 16	Plague rats	
Mus alexandrinus 60 Mus musculus 294 Mus norvegicus 103 Mus rattus 207 Mongoose 8 Classification of rats shot from trees: 8 Mus alexandrinus 4 Mus rattus 16	Classification of animals trapped:	
Mus norvegicus. 103 Mus rattus. 207 Mongoose. 8 Classification of rats shot from trees: 4 Mus alexandrinus. 4 Mus rattus. 16	Mus alexandrinus	60
Mus rattus 207 Mongoose 8 Classification of rats shot from trees:	Mus musculus.	294
Mongoose	Mus norvegicus	103
Mongoose	Mus rattus	207
Classification of rats shot from trees: Mus alexandrinus	Mongoose	8
Mus rattus	Classification of rats shot from trees:	
	Mus alexandrinus	. 4
A varage number of trops set doily	Mus rattus	16
Tiverage number of maps set daily	Average number of traps set daily	1,738

HONDURAS.

PUERTO CORTEZ, Fruit Port-Inspection of Vessels.

Acting Assistant Surgeon Stowe reports: Bills of health issued as follows:

WEEK ENDED AUGUST 2.

Date.	Vessel.	Crew.	Passengers from this port.	Passengers in transit.
July 28 29 31 Aug. 1	Agnella Karen. Viator. Harald. Bodo.	20 22 17 18 19	13 1 4	

INDIA.

CALCUTTA-Cholera and Plague.

Acting Assistant Surgeon Allan reports, July 14:

Week ended June 25. In Calcutta there were 42 deaths from cholera and 25 from plague; in all Bengal there were 34 deaths from plague; in all India 1,037 cases and 979 deaths from plague.

ITALY.

NAPLES-Examination of Emigrants-Smallpox.

Passed Assistant Surgeon Foster reports, July 25:

Vessels inspected at Naples and Palermo week ended July 23.

NAPLES.

е.	Name of ship.	Destination.	inspected	inspected	Pieces of baggage disinfected.
18 20 20	Romanic	BostonNew York	325 874 1,095	40 250 260	420 1,100 1,250
21 21 22 23	Oceania Prinzess Irene	dodo	700 754 631	120 110 60	760 830 580
- 1	Total		4,377	840	4,940
	18 20 20 21 21 21 22	18 San Giorgio	18 San Giorgio New York	Name of ship. Destination. passengers	Name of ship. Destination. Dessengers inspected and passed. San Giorgio. New York. 325 40

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Measles.	Smallpox.	Other causes.	Total.
uly 18 20 20 21	San Giorgio Romanic Hamburg Dinnamare.	10 10 19	6	2 7 13	i		3 5 4	17 23 42
21 22 23	Oceania. Prinzess Irene Luisiana	16 13 12	ı	7 5 7		1	9 5 7	31 22 23
	Total	80	9	41	1	1	33	166

PALERMO.

July 19	San Giorgio	25	 30	••••	 8	61

Smallpox in Naples.—During the week ended July 24, 1910, 9 cases of smallpox with 3 deaths were reported at the health office of the city of Naples. A case of smallpox was discovered at the examination of steerage passengers for the steamship Luisiana July 23, 1910. The patient was sent to the Cotugno hospital for contagious diseases. Two contacts were revaccinated and placed under observation.

JAPAN.

KOBE-Inspection of Vessels.

Acting Assistant Surgeon Moore reports, July 14:

Week ended July 9: Supplemental bills of health were granted to 5 steamers. There were inspected 629 members of crew and 295 steerage passengers, and there were bathed, disinfected, and had

their effects disinfected by steam 120 members of crew and 28 steerage passengers. The number of pieces of baggage steamed was 297, and bedding 56. Manifests were viséed for 20,161 pieces of freight,

amounting to 3,201 tons.

Emigrants were inspected and passed as follows: Steamship Panama Maru for Tacoma, 10 (2 Russians, 8 Japanese). The emigrants passed, together with 18 intending passengers to Peru, by the steamship Hongkong Maru via Honolulu, were inspected, bathed, disinfected, and their effects disinfected before embarkation. All the emigrants from Kobe to United States ports were seven days in Ono quarantine detention station.

During the week 40 cases of human hair and 4 cases of personal

effects were disinfected with formalin.

MALTA.

VALLETTA-Plague on Vessel.

Vice-Consul Turnbull reports, under date of July 26, that a case of plague was landed on July 16 from the steamship *North Wales* and isolated at the quarantine station on Comino Island.

PANAMA.

BOCAS DEL TORO, Fruit Port-Inspection of Vessels.

Acting Assistant Surgeon Osterhout reports: Bills of health issued as follows:

WEEK ENDED AUGUST 3.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
July 28 28	Belvernon	Mobile	20 80	18	28
30 30	Bellaventure Frutera	New Orleans	28 26		
Aug. 31	Fort Morgan	Mobile New Orleans via Colon	24 84	53	17

PHILIPPINE ISLANDS.

Cholera-Inspection of Vessels.

Chief Quarantine Officer Heiser reports June 23 and 30 and July 5:

Cholera in Manila.

Cholera again made its appearance in the city of Manila, 9 cases and 4 deaths being reported for the week ended June 18, 1910. The first case occurred in the person of a Greek peddler who came from Dagupan, a town which has been cholera infected for some weeks. Upon arrival at Manila he entered a boarding house, which had 40 or more inmates, and, soon after reaching there, developed a case of cholera. Before the existence of this case was known the other inmates of the boarding house became alarmed and scattered to many sections of the city. The cases which have occurred since then in Manila are all directly or indirectly traceable to the case in the Greek peddler.

During the week ended June 25, 1910, 11 cases of cholera with 9 deaths were reported in the city of Manila. There were 2 more cases of cholera reported than for the preceding week. In view of the fact that there has been no improvement in the situation, it has been deemed advisable to require vessels leaving Manila for other Philippine ports to secure a bill of health, and to require a signed statement from the masters of such vessels to proceed to the nearest quarantine station in the event that cholera makes its appearance on board. A circular letter was issued making these restrictions effective June 28, 1910, as follows:

[Circular letter.]

U. S. Public Health and Marine-Hospital Service, Office of the Chief Quarantine Officer for the Philippine Islands, Manila, P. I., June 28, 1910.

To the masters, owners, and agents of vessels and others concerned:

Until further notice all vessels leaving Manila for a port or ports in the Philippine Islands outside of Manila Bay, except Olongapo, will be required, prior to sailing, to obtain a bill of health at the quarantine office; and the masters of such vessels will be required to bind themselves to proceed at once to the nearest quarantine station, either Mariveles, Iloilo, or Cebu, in the event that any suspicious sickness occurs aboard their vessels at any time during the voyage.

Respectfully,

VICTOR G. HEISER,
Passed Assistant Surgeon,
Chief Quarantine Officer for the Philippine Islands.

During the week ended July 2, 1910, there were reported in the city of Manila 13 cases of cholera with 10 deaths.

Cholera in the Provinces.

WEEK ENDED JUNE 18.

Provinces.	Cases.	Deaths.
Bulacan	56	39
Pangasinan	195	149 3
Total	257	192

In addition to the provinces heretofore reported as being infected, there were also a few cases reported in the nearby provinces of Cavite and Rizal. The health officers in charge of these districts believe the infection to be due to the importation of a fruit known as mangoes from the province of Pangasinan.

There was also a sharp increase in the number of cases in Pangasinan, due to an infection which was present at a big wedding celebration and was carried far and wide by guests who had come to attend

the wedding from many different towns.

WEEK ENDED JUNE 25.

Provinces.	Cases.	Deaths.
Bulacan Pampanga Risal R	49 5 774	33 3 604
Total	829	640

The infection is still confined to the same provinces, but the number of towns infected has increased. There has also been a decided increase in the number of cases, 829 new cases being reported, as against 257 for the preceding week. The largest increase took place in the province of Pangasinan, and it is probably more or less directly due to "fiestas," or celebrations, which were attended by large numbers of people not only from the town in which they were held, but also from the surrounding country. Despite the fact that urgent requests were made not to hold these celebrations until all danger from cholera had passed, the local authorities refused to comply, and the "fiestas" were held.

WEEK ENDED JULY 2.

Provinces.	Cases.	Deaths.
Bulacan	77	50
Mountain Province Nueva Ecija.	13	
Pampanga Pangasinan Farlac	176	12
Carlac	28	24
Total	298	206

Inspection of Vessels.

During the week ended June 18, consular bills of health were issued at the port of Manila as follows:

On June 12, the British steamer Frankby, with 38 crew, en route from Iloilo to New York, sailed from this port, a supplemental bill of health having been issued. Cargo investigated and passed during loading. Vessel sailed without inspection, partly owing to mutiny on board.

On June 12, the British steamer Sungkiang, with 64 crew, en route from Amoy to Cebu and Iloilo, was granted a supplemental bill of health.

On June 14, the U. S. army transport Sheridan, with 193 crew, 161 cabin and 271 steerage passengers, was granted a bill of health for San Francisco via Nagasaki and Honolulu. Crew and steerage passengers bathed, and their effects disinfected. Cargo inspected and either passed or disinfected, and so labeled. Vessel partially disinfected. Entire personnel inspected and passed at hour of sailing.

On June 18, the Japanese steamer *Panama Maru*, with 78 crew, 2 cabin and 1 steerage passengers, en route from Yokohama to Seattle, was granted a supplemental bill of health. Cargo loaded at this port inspected and passed before loaded. Personnel inspected and passed at hour of sailing.

On June 18, the British steamer *Cambyses*, with 32 crew, en route from New York to Iloilo and Cebu, was granted a supplemental bill of health.

During the week ended June 25 consular bills of health were issued

at the port of Manila as follows:

On June 21, the British steamer *Kumeric*, with 71 crew, was granted a bill of health for Tacoma and Seattle via Hongkong, Shanghai, and Japan ports. Manifests signed for cargo loaded at this port, same being inspected and passed prior to loading. Crew inspected and passed at hour of sailing.

1163

On June 22 the Norwegian steamer Selja, with 46 crew, was granted a bill of health for Portland via Hongkong. Cargo investigated and passed prior to loading. Crew inspected and passed at hour of

sailing.

On June 23 the American steamer Mongolia, with 278 crew, 47 cabin, and 219 steerage passengers, was granted a bill of health for San Francisco via Hongkong. Crew and steerage passengers inspected and passed at hour of sailing. Cargo taken on at this port inspected and passed before loading, and manifests for same viséed.

During the week ended July 2 consular bills of health were issued

at the port of Manila as follows:

On June 28 the British steamer *Taiyuan*, with 74 crew and 6 cabin passengers, en route from Hongkong to Zamboanga, was granted a

supplemental bill of health.

On July 1, 1910, the Japanese steamer Seattle Maru, with 82 crew, was granted a bill of health for Tacoma via Hongkong and Japan ports. Cargo inspected and passed before loading. Manifests viséed. Entire personnel inspected and passed at hour of sailing.

On July 2, 1910, the British steamer Shimosa, with 58 crew, en route from Iloilo to Boston and New York, was granted a supplemental bill of health. Vessel was fumigated while in port. Manifests viséed. Cargo taken on at this port inspected and passed prior to loading. Personnel inspected and passed just prior to departure.

RUSSIA.

Measures against Cholera.

Pursuant to a request made through departmental channels, on July 14, 1910, that instructions be issued to United States consular officers at Hamburg, Bremen, Antwerp, and Rotterdam, and the continental and British ports, to detain steerage passengers from cholera-infected districts in Russia, reference to which was made in the Public Health Reports for the week ending August 12, it was considered necessary, on August 9, 1910, to request that the instructions above referred to be made to include steerage passengers from all ports of Russia. The reason for this additional precaution being the supposed difficulty, if not impossibility, of the consular officers being able to determine whether immigrants from Russia have come from districts not infected with cholera.

The service has had one of its representatives stationed in the office of the American consul at Libau, Russia, since September 26, 1908. Libau is the principal port of departure for emigrants from northern

Russia.

The following precautions are taken by the service officer at Libau

before certifying to ships destined to United States ports:

Emigrants are examined up until the evening of the sixth day preceding the sailing of the vessel, but none are examined after that time. They are held at Libau for five full days prior to their departure. Each single person or family is given a card by the representative of the service, containing the name and age of each member of the family, and the printed card states that they are free from evidence of quarantinable disease. This card is dated and stamped. Then upon the day of sailing all passengers are again examined and the card above mentioned is again stamped with a date stamp marked "Second

inspection." All cases having no quarantine card, those having cards which are not stamped, and all cases of illness and suspected cases are prevented from embarking and are held over until the next boat, two weeks later.

All passengers, cabin and steerage, are, as far as the time for quarantine is concerned, treated alike. No evidence except that of a per-

sonal examination of the passenger is accepted.

The officers and crew of every ship are examined every day for five days prior to sailing, and no new man for the crew is shipped at Libau unless he has been there for more than two weeks.

Personal inspection of the ship is made on the day of sailing.

Inspection of all baggage is made and all eatables, such as bread, herring, cucumbers, fruit, etc., and all drinkables are removed, and all the large baggage—not hand baggage—is thoroughly disinfected by the use of formaldehyde gas.

During the fiscal year ending June 30, 1910, the officer at Libau inspected 20,971 persons, and advised the holding back for sanitary

reasons of 2,975 persons.

ODESSA-Cholera.

Consul Grout reports July 19:

From July 11 to 15, inclusive, 40 new cases of cholera with 25 deaths were reported in the city of Odessa. There were 42 cases remaining in the hospital July 15.

In Ekaterinoslav Province the disease is spreading rapidly in the mining district. At one mine 100 cases were reported. The workmen are leaving the mines where the disease has appeared.

The province of Astrakhan is declared to be infected.

SIERRA LEONE.

Pellow Fever Present.

The information is received through the Department of State that the American consul reported from Sierra Leone in a cablegram dated August 1, 1910, the presence of yellow fever.

SWEDEN.

STOCKHOLM-Quarantine against Russia.

Information is received from the Department of State that the consul-general at Stockholm, Sweden, reports, under date of July 19, 1910, that the Swedish authorities have declared St. Petersburg, Russia, and the surrounding territory to be infected with cholera and that all arrivals from there are subject to quarantine.

TURKEY.

TREBIZOND-Measures against Cholera.

Consul Jewett reports, under date of July 23, 1910, that more stringent orders have been given by the Superior Board of Health in regard to passengers, food, and water from Russia. A disinfection station is to be established at Surmeneh, about 20 miles east of Trebizond, for sailing vessels coming from Russian ports. The frontier guard has been strengthened.

VENEZUELA.

Plague at Caracas.

Acting Assistant Surgeon Kellogg reports:

A death from plague occurred in Caracas July 30, 1910, in a house used by an American missionary as a school near the center of the city.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended August 19, 1910.

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

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay	. June 6–12	.]	. 4	
Calcutta	June 19–25		42	
Rangoon	June 19-25 June 26-July 2	•	. 2	
Java	July 2	· ····· _{**} ·		Present, the interior.
Batavia	June 26-July 2	. 60	50	Mainly among natives.
Samarang	July 2	• • • • • • • • • • • • • • • • • • • •	•••••	Disappearing. Do.
Soerabaya Persia:	July 2			10.
Ardabil	July 2			Present.
Philippine Islands:	, Jan 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Manila	June 12-July 2	33	23	
Provinces—		1		
Bulacan	June 12-July 2 June 12-18 June 26-July 2	182	122	
Cavite	June 12-18	1		
Mountain Province	June 26-July 2	1		
Nueva Ecija	June 26-July 2 June 19-July 2 June 12-July 2 June 12-25	13	6	
Pampanga	June 19-July 2	1 148	6	
Pangasinan Rizal	Tune 12-36	1,145	878	
Tarlac	June 12-18	i	3	•
Russia:	June 12-10	•	-	
Odessa	July 10-23	132	69	
St. Petersburg	July 10-16	58	20	
Straits Settlements:				
Singapore	June 19-July 2	17	24	
		1		
	YELLOW	FEVE	R.	
Costa Rica:		_		
Siquires	July 31	1	1	
Ecuador:		ا م ا	_	
Guayaquil	July 1-15	9	3	Present.
Sierra Leone	General Aug. 1	•••••	•••••	resent.
	PLA	GUE.		
Argentina:				
Rosario	Feb. 1-28	1	1	
China:		-	-	
Amoy	July 3-9			Epidemic in the port.
Hongkong	July 3–9 June 19–July 2	4	4	-
Swatow	July 5-11			Still present in vicinity.
Ecuador:				
Guayaquil			_ 1	
	July 1-15	4	2	
India:	- 1	4	1	
India: Bombay	June 6-12		53	
India: Bombay	June 6-12 June 19-25		53 25	
India: Bombay	June 6-12 June 19-25 July 3-9	9	53	
India: BombayCalcuttaKurracheeRangoon	June 6-12 June 19-25	9	53 25 10	
India: BombayCalcuttaKurracheeRangoon	June 6-12 June 19-25 July 3-9	9	53 25 10	In quarantine station on Comin.
India: Bombay	June 6-12	9	53 25 10 42	In quarantine station on Comin- Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee. Rangoon Malta: Valletta. Mauritius	June 6-12 June 19-25 July 3-9 June 26-July 2	9	53 25 10	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia:	June 6-12 June 19-25 July 3-9. June 26-July 2 July 16 Apr. 1-June 2	9	53 25 10 42	In quarantine station on Coming Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon. Malta: Valletta. Mauritius. Perdia: Bouchir.	June 6-12	9	53 25 10 42	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon. Malta: Valletta. Mauritius. Persia: Bouchir.	June 6-12 June 19-25 July 3-9. June 26-July 2 July 16 Apr. 1-June 2	9	53 25 10 42	In quarantine station on Comin- Island, from s.s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius. Persia: Bouchir. Venesuela:	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25	9 1 10 7	53 25 10 42 7 4	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon. Malta: Valletta. Mauritius. Persia: Bouchir. Venesuela: Caracas	June 6-12 June 19-25 July 3-9. June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30	9 1 10 7	53 25 10 42 7 4	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia: Bouchir. Venesuela: Caracas Argentina:	June 6-12	9 1 10 7 1	53 25 10 42 7 4 1	In quarantine station on Comin- Island, from 8. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon. Malta: Valletta. Mauritius. Persia: Bouchir. Venesuela: Caracas	June 6-12 June 19-25 July 3-9. June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28.	9 1 10 7 1 LPOX.	53 25 10 42 7 4 1	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius. Persia: Bouchir. Venesuela: Caracas Argentina: Rosario	June 6-12	9 1 10 7 1	53 25 10 42 7 4 1	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Bouchir. Venesuela: Caracas Argentina: Rosario. Brazil:	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28 May 1-31	9 1 10 7 1 LPOX.	53 25 10 42 7 4 1	In quarantine station on Comin- Island, from 8. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia: Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28 May 1-31 July 17-23	9 1 10 7 1 1 2 11	53 25 10 42 7 4 1	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia: Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para. Santos.	June 6-12	9 1 10 7 1 LPOX.	53 25 10 42 7 4 1	In quarantine station on Comin Island, from a.s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para. Santos. Sao Paulo.	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28 May 1-31 July 17-23	9 1 10 7 1 1 2 11	53 25 10 42 7 4 1	In quarantine station on Comin- Island, from a. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia: Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para. Santos. Sao Paulo.	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28 May 1-31 July 17-23 June 12-18 June 12-18 June 12-18	9 1 10 7 1 LPOX.	53 25 10 42 7 4 1	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para Santos. Sao Paulo. Ceylon: Colombo.	June 6-12	9 1 10 7 1 1 2 11	53 25 10 42 7 4 1	In quarantine station on Comin Island, from s. s. North Wales
India: Bombay. Calcutta. Kurrachee Rangoon Malta: Valletta. Mauritius Persia: Bouchir. Venesuela: Caracas Argentina: Rosario Brazil: Para Santos. Sao Paulo. Ceylon: Colombo. Chile: Antofagasta	June 6-12 June 19-25 July 3-9 June 26-July 2 July 16 Apr. 1-June 2 June 5-25 July 30 SMALI Feb. 1-28 May 1-31 July 17-23 June 12-18 June 12-18 June 12-18	9 1 10 7 1 LPOX.	53 25 10 42 7 4 1	In quarantine station on Coming Island, from a. s. North Wales

Reports Received During Week Ended August 19, 1910.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Hongkong	July 19-25	2	1	
Nanking	May 8-July 16		l . .	Present.
Shanghai	June 27-July 17		10	
Swatow	July 5-11			Do.
Egypt:	, July 0-11			20.
Alexandria	June 1-30	2	3	
France:		_		
Paris	June 19-23	1	ł	
ndia:		•		
Bombay	July 6-12		5	
Madras	July 2-8	• • • • • • • • •	3	
Rangoon	June 26-July 2	i		
taly:	June 20-July 2	1		
Cary:	T-1- 10 04			
Naples	July 18-24	9	5	
[alta	July 10-16	3		
ersia:	1			
Kerman	July 2			Present.
ortugal:	l 			•
Lisbon	July 19-23	65		
Lussia:			_	
Moscow	July 9-16	16	9	
Odessa	July 2-8	4		
Riga	July 9-23	97		May 1-31, deaths 26.
Warsaw	May 8-14		5	
pain:	-			
Valencia	June 17-23	1		
Vigo	June 17-23		1	
traits Settlements:				
Singapore	June 19-July 2	25	6	

Reports Received from June 25 to August 12, 1910.

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

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy	. Aug. 8			Present.
Swatow	. May 10-June 6		254	In vicinity from 3,000 to 4,600 deaths.
Germany:	1	İ	[1
Ruhleben (near Berlin)	June 23-27	2	2	Among Russian emigrants.
Bombay	. June 8-21		2	
Calcutta	. May 1-June 11			
Madras	May 21-June 2		2	
Moulinise Negatapam	. May 1-7	1	1	
Negatapam	Apr. 16-May 20		63	
Rangoon	. May 8–June 25	}	10	•_
Java				June 18, present in extreme east-
Data-da	35. 0 7 07		i	ern part.
Batavia	May 8-June 25	105		Mainly among natives.
Soerabava	May 8-June 4	187 27	152	June 25, disappearing.
Dhilippine Telepide	May 8-21	21	11	
Philippine Islands: Manila	May 22-June 4	4		
Provinces—	may 22-June 1	2	4	
Batangas	May 1-7	1		
Bulacan	May 1-June 11	43	29	
Pampanga	Ang 24_Tune 11	78	78	•
Pangasinan	Apr. 24-June 11	614	421	
Tariac	May 8-June 11	44	29	
Union	May 1-28.	2	7	
Russia, general				June 25, present in districts of
, ,				Igoumen, Mazir, Pinsk, Ret-
				Igoumen, Mazir, Pinsk, Ret- chitsk, and Sloutsk. May 8- July 9, cases 13,582, deaths
				July 9, cases 13.582, deaths
·				5,708.
Astrakhan, government	July 3-9	3	3	•
Astrakhan	June 26-July 2	1	1	
Baku, government		106	56	
Baku	July 3-9	3 1	4 1	

Reports Received from June 25 to August 12, 1910.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia, general—Continued.				
Bessarabia	June 5-July 9	18	6	
Black Sea, province	July 3-9	25	11	
Don, territory	May 29-July 9	2,900	1,156	
Rostov on the Don Kharkov, government	May 20_Tune 28	1,418 238	123	1
Kharkov, government	June 26-July 3	320	168	
Khasan	June 26-July 9	9	3	
Kherson, government Odessa	June 19-July 9 May 29-June 25 June 26-July 3 June 28-July 9 May 29-July 3 May 29-July 9	651 60	193 29	June 18-20—Fatal case on steam
Kief, government	May 29-July 9		206	ship Colenzo.
Kuban, government	May 29-July 9	1,994	1,005	1
Kursk, government Minsk, government	Mey 20-July 9	11 61	5 16	
Mohllev, government	May 15-June 18	15	19	
Moscow, government-		i		
Moscow Nishninovgorod, govern-	July 3-9	4	3	July 12–15, 2 cases.
ment.		1	•	
Orel, government	May 30-June 18 July 3-9 July 3-9	2	1	1
Orlov	July 3-9	22	8	 •
Padolien, government Poltava, government	May 29-July 9	722	258	
Rissan government	July 3-9	15	10	1
Rjasan, government St. Petersburg, govern-				July 9, 1 case.
ment—	1		i _	
St. Petersburg	June 19-July 9	10	5	
Samara, government	June 19-July 9	80 153	35 62	1
Simbirsk, government	June 19-July 9	5	2	
Saratov, government Simbirsk, government Stavropol, government	June 26-July 9	78	31	
Tambov, government	June 19-July 9	20	16	
Taurida, government	May 29-July 9	562	273	
KertschSebastopol	May 29-July 9	69 10	31	1
Theodosia	June 19-July 9 June 19-July 9 June 19-July 9 June 26-July 9 June 19-July 9 May 29-July 9 June 19-July 9 June 19-25	10	4	Present.
Terek. territory	June 19-July 9	10	28	
Tiflis, government— Tiflis	June 19-July 9	11	5	
Tachernigov	May 29-July 9	419	167	· ·
Vitebsk, government Veronesch, government	May 29-July 9	13 19	13	1
Volhynian, government	July 3-0	. 19	13	
Volhynien, government Yekaterinislav, govern- ment.	June 19-July 9 May 29-July 9 May 29-July 9 May 29-July 9 July 3-9 May 29-July 9	2,641	1,178	
Transcaspian, territory	July 3-9	5	4	
Transcaucasia— Tschernomorsk, dis-				
trict— Novorossysk	June 19-July 3	7	6	
iam: Bangkok	May 4-June 18	596	589	
traits Settlements:		36	35	
Singapore	May 8-June 18	30	35	
·	YELLO	W FEV	ER.	
Brazil:				
Bahia	Apr. 30-June 3 May 30-July 16 May 30-July 16	2	2	
Manaos	May 30-July 16		12	
Para	May 30-July 16	42	29	
Limon	July 9-14	1	,	
San Jose	May 28-July 9	3	2	Fatal case May 28 from Barran
		٠		Fatal case May 28 from Barran quilla; case June 29 from Siquires; fatal case July 9 from
cuador:				Tivives.
Guayaquil	May 16-June 30	36	18	
old Coast:				
Sekondiierra Leone:	May 1-27	8	8	
Freetown	May 1-June 8 May 20.	4	4	Present.
enezuela:	i i	• • • • • • • • •		a s varuadi
La Guaira	June 16-30		1	

Reports Received from June 25_to August 12, 1910.

PLAGUE.

Place.	Date.	Cases.	Deaths	. Remarks.
Brasil:				
Bahia	Apr. 30-July 17	. 4	1 4	L
Pernambuco	Apr. 1-15		. 1	l <u>}</u>
Chile:	Man o Tuln o	91	١.,	, I
IquiquePisagua	May 8-July 2 Apr. 1-May 31	31 14	1 11	
Taltal	Apr. 1-27	12	1	'1
China:	11pt 1-2	-		•1
•	(May 8-31		l	. From 10 to 15 deaths daily.
Amoy	May 8-31			
Kulangsu, interna-	June 5-11		1	_
tional city.	35 5 10	į .		
Chao Yang district	May 5-19		3,000	Mainly at Ho Peng. Present also at Chelin, Feng-chow-so, Taipushien, and Tsai-tang-shi.
Chang-pu district	June 11			. Epidemic.
Ching-chew district	June 11	1		Do.
Hankow	May 15-28	5	3	
Hongkong	May 15-28 May 8-June 18	4	4	
Swatow	June 1-6	•••••		. Present in vicinity.
Ecuador:			_	
Guayaquil	May 16-June 30	8	1	
Igypt: Alexandria	Morr 94 Turbs 0	11	6	
Ishmalia	May 24-July 8 June 19	ï	1	
Port Said.	June 14	2	•	1
Provinces—	• danc 14	~	•••••	
A • A	May 26-June 16	11	7	. •
Assouan	Apr. 30-June 8	2	i	
Beni Souef	May 27-June 29	8	5	Ì
Assouan Beni Souef Galioobeeh Garbieh	May 20-June 10 Apr. 30-June 29 May 27-June 29 May 21-July 3 May 14-July 4 May 28-July 11 May 27-June 18 May 24-June 13 May 31-July 2	6	•••••	
Garbieh	May 14-July 4	21	_8	!
Fayoum	May 28-July 11	20	14	
Kena	May 27-June 18	24	22	
Kena Menouf Minieh	May 21_July 2	83 32	13 7	
[awaii: -	may or-sury z	32	•	
Honolulu	July 5-12	2	2	
dioram	· 1	- 1	-	•
Bombay	May 18-June 28 May 1-June 11 May 15-July 2		560	•
Calcutta	May 1-June 11		341	.
Kurrachee	May 15-July 2	237	228	
Magras	June 25-July 1	••••••	1 1	;
Rangoon	May 8-June 25 May 1-June 11		196	
Bombay Presidency and	may 1-June 11	2,000	1,790	
Sind. Madras Presidency	May 1-June 11	97	61	,
Bengal.	May 1-June 11	1,030	915	, ,
United provinces	May 1-June 11 May 1-June 11 May 1-June 11 May 1-June 11 May 1-June 11	5.922	5, 446	•
United provinces Punjab	May 1-June 11	40,642	35, 226	
Burma	May 1-June 11	810	785	<i>t</i>
Central provinces, includ-	May 1-June 11	162	107	
ing Berar.		~		
Mysore State	May 1-June 11	81 95	59 68	•
Hyderabad State Central India	May 1-June 11 May 1-June 11 May 1-June 11	27	22	
Rajputana and Ajmer-Mer-	May 1-June 11	7, 437	6,584	
wara.		.,	0,002	
	May 1-June 11	58	49	
Grand total		58, 361	51, 112	
pan:				
Formosa	May 8-June 18	16	12	
Osaka	May 1-June 25	9	9	
w Zealand:		_ !	- 1	
	Мау 23	1		
rsia:	Anr 30 Tuno 4	44	36	
Bouchir	Apr. 29-June 4	22	30	
Arequipa Department	Mar. 1-31	16	8	
Mollendo				May 16-June 19, 1 case, 1 death.
Callao Department 1	far. 1-31	2		,
Callar	fay 12-19	2		Case May 12 from s. s. Victoria;
Callao 1				M 10 4 M
		0=	1	case May 19 from s. s. Nicarie.
	far. 1-31	25	10	case May 19 from s. s. Micarie.
Lambayeque Departmentl	dar. 1–31dar. 1–31dar. 1–31dar. 1–31	25 32 15	10 20 9	case may 19 from s. s. Nicarie.

Reports Received from June 25 to August 12, 1910.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Rhodes:	May 22-28			Present.
Russia: Odessa	July 30	5		
Siam: Bangkok.	Apr. 25–June 18	7	7	
Straits Settlements: Singapore	May 8-28	3	3	
Trinidad: Port of Spain	May 15-July 14	2	2	
Turkey in Asia: Basra Lobeia	June 12–18 May 1–24	1 25	1 27	And vicinity.
Lobels	May 1-22			11114 V10111173.

SMALLPOX.

Bahla					
Adis Ababa	A hyeeinia		1		
Argentina: Buenos Aires. Feb. 1-Apr. 30. 224 Algeria: Bona. May 1-31. 1 1 Australia: Victoria, general Apr. 3-19. 1 1 Bukowina July 10-16. 1 1 Bukowina July 10-16. 1 1 Bukowina July 10-16. 1 1 Bahia. Apr. 30-June 24. 187 141 Para May 29-July 23. 5 1 Brazil: Bahia. Apr. 30-June 24. 187 141 Para May 29-July 61. 22 7 Pernambuco Apr. 18-24. 1 1 Santos June 16-May 15. 203 Roi de Janeiro Apr. 18-24. 1 1 Santos May 22-June 5. 7 Bantos May 1-31. 2 2 1 Wanitoba- Winnipeg. June 19-25. 4 1 Winnipeg. June 19-25. 1 1 Sydney. June 19-25. 2 1 Sydney. June 19-25. 3 9 1 Sydney. June 19-25. 5 7 Present. May 14. Epidemic. Santiago June 19-25. 5 7 Present. Do. Shile: Chilean May 14. Epidemic. Santiago June 19-25. 5 7 Valparaiso May 14. Do. Shilin: Canton May 8-3u. 1 1 Hongkong May 3-June 21. 3 1 Hongkong May 3-June 21. 3 1 Hongkong May 3-June 26. 4 27 Swatow June 6-20. June 5-Dive 26. 4 27 Swatow June 19-18. 2 2 7 Cairo May 21-July 8. 9 5 Suez. May 21-July 8. 9 5 Suez. May 21-July 6. 23 23 24 24 24 24 24 24	A die A haha	May 16-June 28		1	Present.
Buenos Aires Feb. 1-Apr. 30 224			1		
Algeria:	Buenos Aires	Feb. 1-Apr. 30	.1	224	1
Bona		1 200. 1 31.00			ļ
Austria:	Bona	May 1-31	. 1	1	l
Victoria, general			1 -	1	1
Austria: Bukowina. July 10-16.		Apr. 3-19	1	1	l
Bukowina		12000		_	
Galicia	Bukowina	July 10-16	. 1	1	i
Bahia		May 29-July 23	5		
Bahia	Brazil:	,,			
Para	Bahia	Apr. 30-June 24	187	141	
Pernambuco	Para			7	
Santos		Mar. 16-May 15	l	203	
Sansda: British Columbia	Rio de Janeiro	Apr. 18-24	1		
British Columbia	Santos	May 22-June 5		. 7	
Fernie	Canada:	1 -	j	i	
Vancouver May 1-31	British Columbia—		1	1	
Manitoba	Fernie	June 12-25			
Nova Scotia	Vancouver	May 1-31	2		
Nova Scotia	Manitoba—	-	l	į.	
Halifax	Winnipeg	June 19-25	1		
Pictou Sydney June 12-July 23. 9 1 Sydney Ontario— Toronto. June 5-July 2. 2	Nova Scotia—			ł	
Sydney	Halifax	June 14-July 2			
Ontario— Toronto. June 5-July 2. 2 Chile: Chilean. May 14. Epidemic. Santiago. June 19-25. Present. Valparaiso. May 19-25. Do. Victoria. May 14. Do. canton. May 8-28. 9 Chefoo. June 18-July 2. 1 Hongkong. May 8-June 11. 3 1 Nanking. May 7-June 26. 4 27 Shanghai. May 22-June 26. 4 27 Swatow. June 6-20. Present. Cases among foreigners, deat among natives. June 9-Threases from U. S. cruiser Ne Orleans from Nanking. Swatow. June 6-20. Present. Present. Alexandria. May 21-July 8. 9 5 Suez. May 21-July 16. 23 Present. France: Paris. May 29-July 16. 15 Hamburg. June 5-11. 1 1 Ibraltar. June 5-1. 1 1 Ibraltar. Ju				1	
Toronto. June 5-July 2. 2 Chilean May 14. Epidemic. Santiago June 19-25. 5 Valparaiso May 19-25. 5 Victoria May 19-25. 5 Victoria May 14. Do. Charlon May 8-28. 9 Chefoo June 18-July 2. 1 Hongkong May 8-June 11. 3 Nanking May 7	Sydney	July 3-16	20		
Chilean		-	!		
Chilean	Toronto	June 5-July 2	2		
Santiago	Chile:				
Valparaiso May 19-25. 5 Do. China: May 14. Do. Chefoo. June 18-July 2. 1 1 Chefoo. June 18-July 2. 1 1 Hongkong. May 8-June 11. 3 1 Nanking. May 7. 1 1 Shanghai. May 22-June 26. 4 27 Swatow. June 6-20. 2 7 Tsingtau. June 12-18. 2 2 gypt, general. Apr. 30-June 3. 291 60 Alexandria. May 21-July 8. 9 5 Suez. May 21-July 16. 23 ermany, general. May 29-July 16. 23 ermany, general. May 29-July 16. 15 Hamburg. June 5-11. 1 libraltar. June 5-11. 1 Liverpool. June 19-July 2. 4					
Victoria May 14 Do					Present.
Canton	Valparaiso				_
Canton		May 14			D0.
Chefoo		35 000]	•
Hongkong					Torre & Decemb Tulm 0 Om
Hongkong	Chefoo	June 18-July 2	1	1 1	
Nanking	•• ·• · · · · · · · · · · · · · · · · ·	36 0 Tumo 11		, , ,	case from a vessei.
Shanghāi	Hongkong		3	1	Present
Swatow June 6-20. — — — — — — — — — — — — — — — — — — —	Nanking				
Swatow June 6-20. — — — — — — — — — — — — — — — — — — —	Snangnai	may 22-June 20	4	21	cases among foreigners, deaths
Swatow June 6-20 Orleans from Nanking. Tsingtau June 12-18 2 gypt, general Apr. 30-June 3 291 60 Alexandria May 1-31 2 7 Cairo May 21-July 8 9 5 Suez May 21-27 1 1 rance: Paris May 29-July 16 23 6 Farmany, general May 29-July 16 15 6 6 Hamburg June 5-11 1 1 1 Ibraltar June 20-July 17 4 1 1 reat Britain: Liverpool June 19-July 2 4 1 London June 19-July 2 4 4 1				1	among natives. June 9—1 life
Swatow June 6-20 Present. Isypt, general June 12-18 2 Isypt, general Apr. 30-June 3 291 60 Alexandria May 1-31 2 7 Cairo May 21-July 8 9 5 Suez May 21-27 1 1 rance: Paris May 29-July 16 23 2 ermany, general May 29-July 16 15 15 15 Hamburg June 5-11 1 1 10 Ibraltar June 20-July 17 4 1 1 reat Britain: June 19-July 2 1 1 1 Liverpool June 19-July 2 4 4 1					Orlong from Nanking
Tsingtau June 12-18 2 sypt, general Apr. 30-June 3 291 60 Alexandria May 1-31 2 7 Cairo May 21-July 8 9 5 Suez May 21-27 1	Q-ratory	Tune 6-20		l i	
Sypt, general Apr. 30-June 3 291 60 Alexandria May 1-31 2 7 Cairo May 21-July 8 9 5 Suez May 21-27 1 rance: Paris May 29-July 16 23 ermany, general May 29-July 16 15 Hamburg June 5-11 1 threater June 20-July 17 4 reat Britain:	Toin atom				r resent.
Alexandria. May 1-31. 2 7 Cairo. May 21-July 8. 9 5 Suez. May 21-27. 1 rance: Paris. May 29-July 16. 23 ermany, general May 29-July 16. 15 Hamburg. June 5-11 1 bloraltar. June 20-July 17 4 1 reat Britain: Liverpool July 17-23. 1 London June 19-July 2. 4	Tsinguau	Ann 20 Tuno 2		60	•
Cairo May 21-July 8 9 5 Suez. May 21-27 1 rance: Paris. May 29-July 16 23 ermany, general May 29-July 16 15 Hamburg June 5-11 1 libraltar June 20-July 17 4 1 reat Britain: July 17-23 1 Liverpool June 19-July 2 4	A lower date				
Suez. May 21-27. 1 rance: Paris. May 29-July 16. 23 ermany, general. May 29-July 16. 15 Hamburg. June 5-11. 1 Ibraltar. June 20-July 17. 4 1 reat Britain: July 17-23. 1 1 London. June 19-July 2. 4 4				5	
rance: Paris. May 29-July 16. 23 ermany, general May 29-July 16. 15 Hamburg. June 5-11 1 ibraltar. June 20-July 17. 4 reat Britain: Liverpool. July 17-23. 1 London June 19-July 2. 4				•	
Paris. May 29-July 16. 23 ermany, general May 29-July 16. 15 Hamburg. June 5-11. 1 ibraltar. June 20-July 17. 4 1 reat Britain: July 17-23. 1 1 London. June 19-July 2. 4 4		may 21-21	- 1		
ermany, general. May 29-July 16 15 Hamburg. June 8-11. 1 ibraltar. June 20-July 17 4 reat Britain: July 17-23. 1 London. June 19-July 2 4		May 20_Titly 16	23		
Hamburg. June 5-11. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		May 29-July 16			
ibraitar	Hemburg	June 5-11			
reat Britain: July 17-23. 1	lihrelter	June 20-July 17			
Liverpool		sunc 20-sury 17	*	*	
London		July 17-23	1		
Double Salvanoriii and an one of the control of the				1	
	Duti Differentia			• •	

Reports Received from June 25 to August 12, 1910.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				•
Bombay	May 18-June 28		. 98	
Kurrachee	May 15-July 2		3	1
Madras	May 14-July 2		. 8	1
				1
Rangoon	May 8-June 11	· <u></u>	. 33	
Italy, general	May 30-July 17	.j 57		1
Genos	June 16-30	1	1	
Naples	May 30-July 17	56	12	June 26-One case from s. s. San
rapica	may ov-vuly 17			Giovanni. One case, July 3, on s. s. Pannonia.
Japan:		ĺ	1	i
Formosa	May 22-July 2	2	3	ļ
	may 22 vary 2	1 -		
Java:	M 00 00			
Batavia	May 22-28	1		
Korea:		i	1	
Fusan	May 1-7	1		
Seoul	May 26-June 4	2	1	
Malta		2	-	
	May 22-July 2	2		
Mexico:		l	l	
Aguascalientes	June 5-July 23		25	
Guadalajara	June 11-July 2		. 6	
Mexico.	May 15-July 9		16	
San Luis Potosi	May 10 July 5		4	
	May 29-July 16	8	*	
Veracruz	July 3–9	1		
Portugal:	-		1	
Lisbon	May 29-July 16	269	l	
Russia:	and to they territ			
	Mar. 20 Turler 10	100	-	
Libau	May 30-July 10	126	7	
Moscow	May 22-July 9	113	40	
Odessa	May 22-July 1	47	10	
Riga	May 29-July 9	136		İ
St. Petersburg		304	108	
St. Petersburg	May 8-July 2	904		
Warsaw	Mar. 6-May 7		108	
Siam:		l		
Bangkok	Apr. 25-June 18	1 3	3	
Siberia:			1	
	Ann 22 May 28	2		, , , , , , , , , , , , , , , , , , ,
Vladivostok	Apr. 22-May 28			
Spain:	_	i		
Almeria	June 1–30 May 31–July 11		1	
Barcelona	May 31-July 11		8	a contract of the contract of
Cadiz	May 1-31		Ĭ	
			3	
Madrid	May 1-31			
Seville	May 1-31		2	
Valencia	June 19-July 9	5	l !	
Vigo	June 12-July 9	_	2	
Straits Settlements:	vanc 12 vary v		! - 1	
	M 0 T 10	40		
Singapore	May 8-June 18	46	16	
Penang	May 29-June 4	1		
Switzerland:	•			
Thurgau, Canton	July 10-16	1	i	
Zumich Conton		-		
Zurich, Canton	June 19-July 16			•
Cripoli:				
Tripoti	June 12-18	1		•
Turkey in Asia:		_		
Basra	June 5-11			Present.
	• une 9-11	• • • • • • • •		I tescut.
Truguay:				
Montevideo	Apr. 1-May 31	438	168	
anzihar:				
anzioar.	1			
	June 1-21		4	

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

								Deat	ths fr	om-	-			
Cities.	ended— population.	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Small pox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.	
A berdeen	July 23 July 30	185,705 40,000	41						i		1	2		
Aguascalientes	July 23	570,669	81 129	16						ï		i	2	
Aix-la-Chanelle	July 16 July 23	162,215	38 75	7					ļ					j
Antwerp. Baracoa.	do	326,351 27,000	3							i	::::			
Barcelona. Barmen. Batavia. Barranquilla. Belfast	July 25 July 23	591,272 164,500	290	20				1			1	1	6 2	i
Batavia	July 2	217,630	31			50			i					
Barranquilla	July 23	40,000	23 117	2 21		j				3		;-	21	····i
Belfast Berlin. Berlin. Brimingham. Bremen. Bristol Bombay Brussels. Budapest Calcutta. Christiania. Do Cologne Cologne Colombo Copenhagen Dublin. Do Dundee Durango	July 16	391, 167 2, 127, 119	544	70						2	6	12	13	3
Birmingham	July 30	570,113	105	6						• • • •		1	;-	1
Bristol	July 23 July 30	235, 648 382, 550	48 88	10							··i	li	4	
Bombay	July 12	977.822	648	44 13	53	4		5		2	··i·		4	i
Budapest	do	562, 895 950, 610	170	13						13	3	2 2	6	i
Calcutta	June 25 July 28	950, 610 847, 796	216	··· <u>·</u>	25	42		• • • •	• • • •		-i-			· · · ·
Do	July 28 July 30	250,000	41 63	าน์						• • • •		i		
Colombo	July 23	512,881 187,564	141	10				• • • •				5	3	• • • •
Copenhagen	July 2 July 16	455,000	112 116	15 7				• • • •		10 1	2			· · · ·
Dublin	July 16	394, 525	118	27						1 2	1 3	1	··¡·	i
Dundee	July 23 July 30	402, 928 170, 206	144 44	14 7				• • • •			1		i	
Durango	July 31	75,000	65	1	••••				;-			• • • •	8	••••
Edinburgh.	Aug. 7 July 23	75,000 360,276	. 59 . 84	2 9				• • • • •	1	• • • •	2	···i	6 1	• • • •
ErfurtGlasgow	do	360, 276 108, 768 872, 021	29	2						2		3	2	
Frankfort on the Main.	July 29 do	409,800	208 116	10						3 1	3	4	3	• • • •
Hamburg	July 23	895, 804	215	37	• • • •	••••						7		3
Hilo Hongkong	do	3, 500 336, 455	1	4	2			··i		····				• • • •
Д., Во	July 2	336,445			2									••••
Kobe	July 23 July 10	280,006 387,915	71 157							····2		1	2	1
Konigsberg	July 10 July 23	387,915 244,200	92	9]						1	1
Leeds	July 9 July 23	130,000 490,985	64 122	ii	10			••••		••••			3	3
Leipzig	do	590, 329	154	16						2	1		1	_i
Do	July 16 July 23	177, 159 177, 159	36 54	5						••••	1	1		1
London	do	7,537,196	1,357							3	8	12	39	38
Lyons	July 9 July 8	500,000 550,000	116 322	18	••••		····i	··i·		2	••••	2	2	1
Magdeburg	July 2	278,044	81	9							3			···i
Do	July 9 July 16	278, 563 278, 563	91 79	9						·i			2 4	• • • •
Manchester	July 23	631,533	188	13							2	2	8	ii
Do	July 31 Aug. 7	100,000	64 62	4-						••••	1 2		3	
Hillo Hongkong Do Hull Kobe Kohe Konigsberg Kurrachee Leeds Leipzig Llege Do London Lyons Madras Magdeburg Do Manchester Monterey Do Moscow	July 16	1,500,000	1,034	56				9	i	7	13	22	15	2
Moscow Munich Do Nagasaki	do July 23	576,000	179 164	29 24							1 2	1	5	1 3
Nagasaki	July 3	176,970 593,729	47	7						i				
Napies	July 16 July 23	1	323 297		-			1 3				••••		
Newcastle-on-Tyne	do	285,891	79	6).				i	3 2
Nottingham	do July 8	285,891 260,000 520,000	49 281	24	-	20	· • • • •		·i·	3		••••		3
Palermo	June 4	340,000	145	7 .	:::: .					2			3 2	
Do	June 11 June 18		154 167	5	-	· · · · ·	···· ·	••••	· · · · ·		4		3 .	•••
Newcastle-on-Tyne Nottingham Odessa Palermo Do Do Do Para	June 25		144	6 .	:						2		2 .	
Para	July 23	185,000 2,776,399	9	12 72	! .		6 .		! -	5] .		2 .	··· <u>·</u>

MORTALITY—Continued. Weekly mortality table, foreign and insular cities—Continued.

								Dead	ths fi	rom-	-			
Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Penang Port Elizabeth	June 25 July 9	103, 582 32, 595	65 8	8 2						· 1			 	
Quebec	Aug. 6 July 2 July 23	85,000 252,155 239,000	203 88	8	42	2		ï		····			····i	
Rome	Feb. 12 Feb. 19	584,308	239 243	20 18				••••		2	5	7	6 13	1 2
Do	Feb. 26 July 23	422, 132 4, 500	218 91 6	18 1	 					2 1 2			8	2
Do	July 30 June 11	85,000	4 24	1 3					••••			3		
Do Shanghai Do	June 18 July 3 July 10	165,000	32 158 188	14 11				2 2		••••		i		
Do Singapore	July 17 June 25	271,060	190 227	10 19		10 14		6 2		1				••••
Do Stockholm Sydney	July 2 July 16 Aug. 6	341,816 16,000	242 78 8	21 18 1				4		i	2	2		i
Talcahuana	June 25 July 2	28,000	4 7 77	1 6	••••					····2	1	 i		1
Valencia Venice Vienna	July 30 July 16 July 23	183, 294 2, 107, 981	59 597	6 102						3 2	11 1	3	13	···· 10
Vigo	May 14 Aug. 6	40,000 764,054 135,000	12 263 33	38 1				1 5		 5 1	 4		3	
Winnipeg Yokohama	July 18	407, 432								i				;-

By authority of the Secretary of the Treasury:

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