PUBLIC HEALTH REPORTS.

A Note on the Etiology of "Tabardillo," the Typhus Fever of Mexico.

By John F. Anderson, Director Hygienic Laboratory, and Joseph Goldberger, passed assistant surgeon, United States Public Health and Marine-Hospital Service.

In a previous note on the basis of the results of guinea-pig inoculations, we have reported on the nonidentity of Rocky Mountain spotted fever and the typhus fever of Mexico, and at the same time stated that we had made inoculations with blood of typhus fever into rabbits and monkeys, the results of which at that time we were not ready to present. Sufficient time has now elapsed since the inoculations in these animals were made to confirm the results of the experi-

ments in the guinea pigs.

We have now to report some further results of the work, which, while primarily started for the purpose of ascertaining the relationship between Rocky Mountain spotted fever and Mexican typhus, have an important bearing on the problem of the etiology of the typhus fever of Mexico, locally known as "Tabardillo." Up to the date of the present writing (December 16) we have studied twelve cases of this disease. For purposes of easy reference we have numbered these cases serially, and in a later paper we hope to give a summary of the important clinical features presented by each.

Aside from the clinical aspects, these studies embrace cultures and

animal inoculations.

CULTURES.

Cultures were made with the blood from cases Nos. 1, 2, 3, 4, 5, 6, 7, 8, and 11. The blood was drawn from the general circulation. The cases furnishing this blood were in different stages of the disease—from the fifth to the fifteenth day. The blood was planted in standard bouillon in flasks containing 50 c. c., in fermentation tubes, freshly prepared, and on agar or Loeffler's serum slants.

In no instance did we obtain any visible growth.

MONKEYS.

We made blood inoculations in two monkeys:

"Bedalia," a female rhesus, was inoculated intraperitoneally November 27, 1909, with 10 c. c. of defibrinated blood from case No. 6, on November 30, 1909, with 5 c. c. from case No. 8, and on December 2, 1909, with 5 c. c. of defibrinated blood from case No. 11 diluted with an equal volume of physiological salt solution.

⁴ United States Public Health Reports, Dec. 110, 1909, Vol. XXIV, p. 1861.

On December 7, 1909, eleven days from the first and five from the last inoculation, the temperature of the animal rose and continued to rise, reaching its fastigium on the third day and recording a temperature of 40.6° C. on the seventh day of illness.

On December 19, 1909, there was a critical drop in the temperature

of the animal to normal.

After the first two days of fever the animal began to show marked symptoms of illness. On the fourth day blood was drawn from the

heart and used for passage into another monkey.

"Jerry," a male capuchin, was inoculated intraperitoneally on November 28, 1909, with 4 c. c. of defibrinated blood from case No. 7, and on December 2, 1909, with 4 c. c. from case No. 11 diluted with

an equal volume of physiological salt solution.

On December 3, 1909, six days after the first and one day after the second inoculation, the temperature of the animal began to rise, reaching its maximum, 40.5° C., on the fourth day of illness. This animal showed no definite symptoms other than a slight diminution in his appetite and a marked thirst. On December 11, 1909, his temperature had declined to 38.7° C. The following morning the temperature recorded was 36.6°. It continued to fall, interrupted by more or less marked evening exacerbations, until in the morning of December 16, 1909, the mercury barely rose to 34.3° C. The animal's temperature gradually returned to normal on December 18, 1909.

UNITED STATES.

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

Plague-prevention work in California.

Surgeon Blue reports:

SAN FRANCISCO, CAL.

Last case of human plague: Sickened, January 30, 1908. Last case of rodent plague: Trapped, October 23, 1908.

Week ended December 4.

Premises inspected. Houses destroyed. Buildings condemned. Nuisances abated. Poisons placed. Rats trapped. Rats found dead.	9 67 8, 460
Rats identified: Mus norvegicus. Mus rattus. Mus musculus. Mus alexandrinus.	1, 542 39 325 40
Total	1, 946
Rats examined bacteriologically	. 0

OAKLAND, CAL.

Last case	of human plague:	Sickened, October 26, 1909
Last case	of rodent plague:	Found, December 1, 1908.

Week ended December 4.
Dead inspected 10 Plague 0 Rats found dead 17 Rats trapped 597
Rats identified: Mus norvegicus. 565 Mus musculus. 48 Mus alexandrinus 1
Total
Rats examined bacteriologically $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
POINT RICHMOND, CAL.
Last case of human plague: Sickened, November 27, 1907. No record of rodent plague in Point Richmond. The inspection of the dead was discontinued November 30, 1909.
ALAMEDA COUNTY, CAL. (EXCLUSIVE OF OAKLAND).
Last case of human plague: Sickened, 2 miles southwest of Sunol, September 24 1909.
Last case of rodent plague: Found, October 31, 1909.
Week ended December 4.
Dead inspected
The inspection of the dead was discontinued November 30, 1909.
CONTRA COSTA COUNTY, CAL. (EXCLUSIVE OF POINT RICHMOND).
Last case of human plague: Sickened, July 21, 1908. Last case of rodent plague: Found, September 28, 1909.
Week_ended December 4.
Dead inspected 2 Plague 0 Total number of ground squirrels found infected to date 240
FRESNO COUNTY, CAL.
No record of human or rodent plague in Fresno County.
Week ended December 4.
Ranches inspected. 18 Ground squirrels shot. 295 Ground squirrels found dead. 30 Rabbits shot. 3 Ground squirrels examined bacteriologically. 301

Ground squirrels found infected with B. pestis	0 2 0
KERN COUNTY, CAL.	·
No record of human or rodent plague in Kern County.	
Week ended December 4.	
,, ,	0
Ranches inspected	98 95
Ground squirrels found infected with B. pestis	U
MARIPOSA COUNTY, CAL.	
No record of human or rodent plague in Mariposa County.	
Week ended December 4.	
Ranches inspected	2
Ground squirrels shot	82
Rabbits shot	3 79
Ground squirrels found infected with B. pestis	0
Rabbits examined bacteriologically	3
Rabbits found infected with B. Pestis.	0
MERCED COUNTY, CAL.	
No record of human or rodent plague in Merced County.	
Week ended December 4.	
Ranches inspectedGround squirrels shot	48
Ground squirrels shot	44 6
Rabbits shot. Ground squirrels examined bacteriologically	432
Ground squirrels found infected with B. pestis.	0
Rabbits examined bacteriologically	10
Rabbits found infected with B. pestis	0
MONTEREY COUNTY, CAL.	
No record of human or rodent plague in Monterey County.	
Week ended December 4.	
Ranches inspected	49
Ground squirrels shot. Ground squirrels examined bacteriologically. Ground squirrels found infected with B. pestis.	252 249 0
SAN JOAQUIN COUNTY, CAL.	
No record of human or rodent plague in San Joaquin County.	
Week ended December 4.	
Ranches inspected	17
Ground squirrels shot	26
Ground squirrels examined bacteriologically	24 0

SAN LUIS OBISPO COUNTY, CAL.

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

Week ended December 4.	
Ranches inspected	. 114
Rabbits shot Ground squirrels examined bacteriologically Ground squirrels found infected with B. pestis. Rabbits examined bacteriologically. Rabbits found infected with B. pestis.	. 0
SAN MATEO COUNTY, CAL.	
No record of human or rodent plague in San Mateo County.	
Week ended December 4.	
Ranches inspected. Ground squirrels shot. Ground squirrels examined bacteriologically. Ground squirrels found infected with B. pestis.	9
SANTA BARBARA COUNTY, CAL.	
No record of human or rodent plague in Santa Barbara County.	
Week ended December 4.	
Ranches inspected. Ground squirrels shot Ground squirrels examined bacteriologically. Ground squirrels found infected with B. pestis.	146 140
SANTA CRUZ COUNTY, CAL.	
Last case of rodent plague: Found, November 6, 1909. No record of human plague in Santa Cruz County.	
Week ended December 4.	
Ranches inspected	36 0
TULARE COUNTY, CAL.	
No record of human or rodent plague in Tulare County.	
Week ended December 4.	
Ranches inspected. Ground squirrels shot. Rabbits shot. Ground squirrels examined bacteriologically. Ground squirrels found infected with B. pestis. Rabbits examined bacteriologically. Rabbits found infected with B. pestis.	7 111 0 6
VENTURA COUNTY, CAL.	
No record of human or rodent plague in Ventura County.	
Week ended December 4.	
Ranches inspected. Ground squirrels shot. Ground squirrels examined bacteriologically. Ground squirrels found infected with B. pestis.	17 31 28 0

Smallpox in the United States.

[This table includes cases and deaths reported to the Surgeon-General of the Public Health and Marine-Hospital Service from June 26 to December 24, 1909. For reports received from December 25, 1908, to June 25, 1909, see Public Health Reports for June 25, 1909. In accordance with custom the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
abama:				
Birmingham	Nov. 14-20	1	i	
Mobile	Oct. 17-23	i		
Montgomery	Nov. 14-Dec. 4	35		
wonegomer J	1101. 17 100. 4	- 30		
Total for State		37		
ifornia, general Berkeley	Aug. 1-31		2	
Berkelev	July 25-31	i	1	
Hobart Mills	Apr. 1-30	i 1		
Sacramento	June 6-Dec. 4	3		
Berkeley Hobart Mills Sacramento San Francisco	June 6-Dec. 4	5		
Truckee	Mar. 23	3		
Total for State	· · · · · · · · · · · · · · · · · · ·	13	2	•
orado:				
Adams County	Apr. 1-June 30	5	1	
Boulder County	Apr. 1-June 30	8		
Clear Creek County	Apr. 1-June 30	ĭ		
Denver County-		1 1	1	•
Denver	Apr. 1-June 30	10		
El Paso County	Apr. 1-June 30 Apr. 1-June 30	3	1	
Fremont County	Apr. 1-June 30	13	1	
Grand County	Apr. 1-June 30	i	l	
Huerfano County	Apr. 1-June 30	24	l	•
arimer County	Apr. 1-June 30	4	1	
Las Animas County	Apr. 1–June 30	ī	l	
Aguilar	Nov. 29-Dec. 4	18		
Aguilar	Nov. 29-Dec. 4 Nov. 30-Dec. 5	-6		
Mesa County	Apr. 1-June 30	20		
Fruita	Apr. 1-June 30 Nov. 22-27	8		
Montrose County	Apr. 1-June 30	2		
dorgan County	Apr. 1-June 30	17		
Otero County	Apr. 1-June 30	1		
Pueblo County	Apr. 1-June 30	8		
Rio Grande County		1		
San Miguel County	Apr. 1-June 30	4		•
Weld County	Apr. 1-June 30	1		•
·	•			
Total for State	• • • • • • • • • • • • • • • • • • • •	156		
ecticut:				
Bridgenort	Oct 2	1		
Var Havan	May 1_31	î		
Bridgeport	Nov 1-30	î		
, manufacture 1	1107.1.00			
Total for State		3		
trict of Columbia: Washington	Aug S-Nov 20	10		
11 annue Mil	12ug. 0-11UV. 2U	10		
Total for District		10		
ida:				
acksonville	Nov. 14-20	1		
Total for State		1		
aio:				
rgia: Macon	June 14-Nov. 28	90		
Macon	Julie 14-MOV. 28	30		
Total for State		30		
ois:				
Alexander County—	Maw 1 Torns 00	OF		
Cairo	may 1-June 30	25	• • • • • • • • • • • • • • • • • • • •	
Sureau County	Aug. 1-31	1 25		
Champaign County	Apr. 1-M8y 31	25 35		
Christian County	Apr. 1-may 31	35		
Clay County	Apr. 1-30	7		
Clinton County Cook County—	Apr. 1-June 30	•		
Chicago	June 20-Nov. 13	10		
Dewitt County		10		
		3		
Edwards County	ADP. I-MAV 31			
Edwards County Effingham County Fayette County	Apr. 1-May 31	2		

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Franklin County	Apr. 1-May 31	2		
Fulton County	Apr. 1-June 30	ļ		Present.
Gallatin County	Apr. 1-May 31	16		
Iroquois County	May 1-31	1		
Jackson County	Apr. 1-May 31	14		
Knox County	Apr. 1-May 31 Apr. 1-30	20		
Lake County.	Apr. 1-July 31			
Lasalle County	Apr. 1-30	3		
McDonough County McHenry County—	Apr. 1–30	25		
Marengo	May 1-June 30	97		
Macoupin County	Apr. 1-May 31 June 1-30	6		
Madison County	May 1-June 30	2		
Marion County	May 1-June 30 Apr. 1-June 30	14		
Menard County Massac County—	Aug. 1-31	i		
Metropolis	Apr. 1-May 31	29		
Montgomery County	May 1-June 30	2		
Peoria County	Apr. 1-June 30	13		
Peoria	June 1-Sept. 30	54		
Perry County Pulaski County	Apr. 1-Aug. 31 May 1-31	18		
Rock Island County—	мау 1-01	J	1	
MolineSt. Clair County—	June 1–July 31	2		
East St. Louis	May 1-June 30		1	
Saline County	May 1-31	30		
Sangamon County	Apr. 1-30 May 29-July 9 May 1-31	1		
Springheld	May 29-July 9	3		
Schuyler County	May 1-31	1		
Shelby County	ADr. I-JULY 31	i 3	·	
Stephenson County Tazewell County	May 1-31 May 1-31	1 7		
Pekin	Apr. 1-Aug. 31	78		
Union County	Apr. 1-May 31	5		
Vermilion County	Apr. 1-May 31	2		
Danville	June 14-Nov. 6			
Warren County	June 1-July 31	3	¹i	
Will County— Joliet	July 1-31	1		
Williamson County	Anr. 1-Ang. 31	17		
Winnebago County	Apr. 1-Aug. 31 June 1-30			
Woodford County	Apr. 1-July 31	25		
Total for State	-	694		
m dlama.				
ndiana: Adams County	Comt 1 20	,		
Allen County	Sept. 1–30 May 1–Sept. 30	26		
Fort Wayne	June 6-Nov. 13	194		
Carroll County	June 1-30			
Clay County	June 1-30			
Dearborn County	May 1-31			
Dekalb County	June 1-30 May 1-31 June 20-Nov. 20	1		
Delaware County	M8y 1-31			
Fayette County	June 1-30	1		
Fountain County	July 1-31	ī	i	
Gibson County	May 1-31	5		
Grant County	May 1-Sept. 30	15		
Marion	Nov. 28-Dec. 4	.1		
Greene County	June 1-Sept. 30	15	1	
Huntington County	Sept. 1-30	1 2	• • • • • • • • • • • • • • • • • • • •	
Marion County—	Sept. 1-30	5		
Indianapolis Monroe County	June 14-Dec. 4 Sept. 1-30	ĭ		
Monroe County Montgomery County	May 1-June 30	9		
Parke County	May 1-June 30 May 1-31	1		
Pulaski County	May 1-31	2		
St. Joseph County	June 1–30	4		
	June 13-Dec. 6	9	• • • • • • • •	
Tipton County	July 1-31	1 27		
Vanderburg County Vermilion County	May 1-Sept. 30 May 1-July 31	43		
Vigo County	June 1-30	43		
Wayne County	May 1-July 31	15	1	
White County	May 1-31	2		
Whitley County	Sept. 1-30	1		
Total for State	ľ	414	3	

Place.	Date.	Cases.	Deaths.	Remarks.
lowa:				
Cedar Rapids	July 1-Aug. 31	. 2	1	
Keokuk	May 1-31	. 3		•
Ottumwa	June 1-30	1		
Total for State		6		
_				=
Cansas:	Wow 1 21		1	i .
Allen County	May 1-31 Oct. 1-31	20		•
Atchison County	June 1-July 31	8		
Brown County	June 1–30	Ĭ		
Chautauqua County	May 1-31	3		
Cherokee County	May 1-31	1		
Coffey County	May 1-31	1 3		
Comanche County Cowley County	June 1-30	14		
Crawford County	May 1-31	20		
Pittsburg	May 1-31	4		1
Decatur County	June 1-30	12	1	
Oberlin	Nov. 22-27	2		i .
Dickinson County				
Poniphan County	May 1-Aug. 31			
Douglas County		1 1		İ
Elk County	May 1-31 June 1-30			
Franklin County	May 1-31			i i
Geary County				
Graham County	June 1-Oct. 31	7		
Greenwood County	May 1-31			4
Jackson County	May 1-June 30	24		
Jefferson County	May 1-June 30 May 1-31 May 1-31 May 1-31	2		
Jewell County Kearny County	May 1-31	6 1		
Kingman County	July 1-31		••••••	
Labette County— Parsons	May 1-Sept 30	11		
Lincoln County	July 1-31		• • • • • • • • • • • • • • • • • • • •	
Lyon County	May 1-July 31			
McPherson County Marion County	July 1-31 July 1-31			
Marshall County	May 1-Aug. 31			
Montgomery County	May 1-July 31	10		
Coffeyville	July 1-31	1		
Independence	Nov. 27-Dec. 4		• • • • • • • • • • • • • • • • • • • •	
Nemaha County	June 1-July 31		• • • • • • • • •	
Osage County	May 1-June 30			
Osborne CountyOttawa County	May 1-31			
Phillips County				
Pottawatomie County	May 1-July 31			
Pratt County	May 1-July 31	6		
Rawlins County	May 1-31			
Reno County	Oct. 1-31		• • • • • • • • • •	
Republic County	June 1-30		• • • • • • • • • •	
Rice County	Oct. 1-31			
Rooks County	July 1-31			
Rush County	June 1-30	2		
Russell County	June 1-30	1		
Saline County	May 1-31	2		
Scott County	Aug. 1-Oct. 31		• • • • • • • • •	
Sedgwick County	May 1-31		• • • • • • • • • • • • • • • • • • • •	
WichitaShawnee County	May 1-Aug. 31	5 13		
Topeka	May 1-Oct. 31			
Sheridan County	Oct. 1-31			
Smith County	May 1-31	11		
Sumner County	May 1-31	3		
Thomas County	May 1-31	1	••••••	
Wabaunsee County	May 1-31 May 1-31	6 4		
Wyandotte County Kansas City	June 13-Nov. 20	15		
		741	1	
	=			
entucky: Covington	June 13-July 3	5 .		
	June 20-Oct. 30	17		
Newport	June 14-July 25	4].		
	June 13-26	3 .		
Total for State	-	20		
Total for State	••••••	29 .		

Place.	Date.	Cases.	Deaths.	Remarks.
Louisiana:				
New Orleans	. June 13-Dec. 4	15	<u> </u>	
Total for State		15		
faryland, generalBaltimore	Mar. 1-Apr. 30	9		
Baltimore	Dec. 5-11	1	•••••	
Total for State		10		
Lassachusetts:			-	
Boston. Lawrence.	Sept. 12-Nov. 13 June 27-July 3	4		
		1		
Total for State	•	5	1	
lichigan:		_		
Antrim County	Oct. 1-31	2 16		
Omer	Nov. 1-27	1		*
Baraga CountyBay County—	Oct. 1-31	1		
Bay City	June 1-Dec. 4	8		
Berrien County				
Branch County	July 1–Sept. 30 June 1–30	7 1		
Battle Creek	Oct. 31-Nov. 6	2		
Cass County	July 1-Aug. 31	8	1	
Cheboygan County				
Chippewa County	May 1-Oct. 31	3		
Delta County		i		
Eaton County	May 1-Sept. 30	49		
Emmet County	June 1-July 31	2		
Genesee County		1		
Houghton County	Aug. 1-31 May 1-Oct. 31	17		
Huron County	June 1-30	1		
Ingham County	May 1-Oct. 31			
Jackson County	Oct. 1-31	1		
Kalamazoo County	1			
Kalamazoo	July 4-24	2		
Kent County— Grand Rapids	June 6-Oct. 31	3	1	
Lapeer County	June 1-30	ĭ		
Livingston County	Aug. 1-Oct. 31			
Marquette County Menominee County	May 1-Oct. 31 July 1-31	10		
Montcalm County	Oct. 1-31	6		
Muskegon County	May 1-Sept. 30	18		
Newaygo County	June 1-30	1		
Oakland County— Pontiac	Nov. 21-27	1		
Oceana County	May 1-31	1		
Ontonagon County	Oct 1-31			
Ottawa County	May 1-July 31			
Saginaw	May 1-July 31 May 1-July 31 July 25-Oct. 31	4		
St. Clair County	May 1-June 30			
Sanilac County	Oct. 1-31	1		
Schoolcraft County Manistique	July 1-31 June 1-Aug. 31	41		
Tuscola County	May 1-31			
Wayne County	Oct. 1-31			
Detroit	May 1-July 31	2		
Total for State		342	2	
innesota, general	Mar. 1-July 31		4	
Becker CountyBigstone County	June 15-21	5	•••••	
Carver County	June 8-14	1 6		
Clay County	July 6-Aug. 16 July 28-Aug. 2	1		
Cottonwood County	July 1–31			
Crawford County Faribault County	Aug. 10–16		•••••••	
	June 7-14	2	••••••	
Hennepin County—				
Hennepin County— Minneapolis.	May 1-June 30			
Minneapolis	May 1-June 30 May 25-31	1		
Minneapolis	May 1-June 30 May 25-31 May 25-June 14 June 1-7	1 7		

Place.	Date.	Cases.	Deaths.	Remarks.
NO				
Minnesota—Cont'd.	Torne O Trales E		I	i
Marshall County Meeker County	June 8-July 5 May 25-31	6 5	•••••	1
Morrison County	June 21-Aug. 16.	2		
Nobles County	June 21-Aug. 16 May 25-June 21	2		
Olmsted County	June 8-14	2		
Pine County	May 25-31	1		
Ramsey_County—	1		1	
St. Paul	Apr. 1-May 31	10		
Redwood County	June 1-7	1		•
Rock County	June 1-7 May 25-June 21	1 3		1
Duluth	June 10-Dec. 4			1
Sibley County	June 22-July 19	4		İ
Stearns County—	value 22 val., 2011.	-		1
St. Cloud	July 13-19	1		.]
Steele County	May 25-June 21	3		
Swift County	July 20-26	1		.}
Wabasha County	May 25-31	2		.
Wadena County	May 25-July 19	11		4
Waseca County	May 25-31	8		1
Wright County	June 15-Aug. 16	10		
Total for State		166	4	
ississippi:		١.	l	
Brookhaven	Nov. 2-8	1		1
Holly Springs Natchez	Nov. 1-6	3		i
Natchez	Nov. 22-27	. 5		i
Total for State		9		
Total for State	• • • • • • • • • • • • • • • • • • • •			
issouri:				1
Kansas City	June 13-26	2		
St. Joseph	May 30-July 24 June 20-Dec. 4	19		i
St. Louis	June 20-Dec. 4	13	-	i
Total for State		24		
Total for State	• • • • • • • • • • • • • • • • • • • •	34		
ontana:				
Carbon County	June 1-July 31	6		
Cascade County—				
Great Falls	June 1-30	1		
Chouteau County	June 1-30	1		
Custer County	June 1-30	1		
Dawson County	May 1-Sept. 30	7		
Deerlodge County	May 1-31	1		
Fergus CountyFlathead County	June 1-30	14		
Gallatin County	May 1-01	4		
Jefferson County	May 1-31 May 1-31 May 1-31	2		
Lewis and Clark County—	may 1-01	-		
Helena.	May 1-31	1		
Missoula County—		_		
Missoula	June 1-Aug. 31	6		
Park County	May 1-June 30	21		
Livingston	May 1-Dec. 4	15		
Ravalli County—	N 01 0			
Stevensville	Nov. 21-27	1		
Sanders County	May 1-31	1 25	• • • • • • • •	
Silverbow County	June 1-Sept. 30	62	•••••	
Teton County	June 11-Nov. 11 May 1-31 May 1-31	1	•••••	
Valley County	May 1-31	ī		
Yellowstone County	May 1-July 31	7		
-	,			
Total for State		169		
braska:				
Lincoln	May 1-July 31	34		
	-wy 1-vuly ol			
Total for State		34		
ew Jersey:				
Newark	Sept. 19-25	1		
	•			
Total for State		1		
- Vanh sanasal	Man 1 Aug 21	460		
w York, generalBuffalo	May 1-Aug. 31 Oct. 3-Nov. 30	462 5	••••••	
	JUL. 5-1107. 50			
Total for State		467	l	

	1		1	1
Place.	Date.	Cases.	Deaths.	Remarks.
NAb Consiling				
North Carolina: Beaufort County	Tune 1_30	١,		
Bladen County	Apr. 1-30	5		
Buncombe County	Apr. 1-30	1		
Caldwell County	Apr. 1-June 30 Apr. 1-Sept. 30	19		1
Carteret County		1		
Catawba County—	l			
Hickory Craven County	Nov. 21-27	3		
Cumberland County	Apr. 1-Sept. 30 May 1-Aug. 31	2		
Davie County	Aug. 1-31	1		
Duplin County	Apr. 1-Sept. 30	1 41		
Forsyth County Franklin County		14		
Harnett County	June 1-July 31	7		
Johnston County	Apr. 1-Sept. 30	5		
Jones County Lee County	Aug. 1-Sept. 30	24		1
Lenoir County	Apr. 1-30	10		
Madison County	May 1-June 30	7		
Mecklenburg County Charlotte	May 1-31	2		
Charlotte	Sept. 26-Dec. 4	25		Ans 1 20 present
Mitchell County Montgomery County	July 1-31 July 1-31	10		Apr. 1-30, present.
Nash County	June 1-30	1		
Onslow County	Apr. 1-Sept. 30	14	1 .	
Pamlico County Pasquotank County	May 1-31	1 4		
Pitt County	Apr. 1-May 31 Apr. 1-Sept. 30 June 1-July 31 May 1-July 31 Apr. 1-June 30	18		
Robeson County	June 1-July 31	14		
Rowan County	May 1-July 31	17		
Sampson County	Apr. 1-June 30	1 21		In extreme northern part.
Transylvania County Union County		i		
Wake County	Apr. 1-Aug. 31	3		
Watauga County	June 1-Aug. 31	38		
Wayne County Wilson County	May 1-31 Apr. 1-30	14		
Yancey County	Apr. 1-Aug. 31	10		
• •	i i	488		
Total for State		100		
North Dakota:	Mars 1 July 21			
Bottineau County Cass County	May 1-July 31 July 1-31	2		
Emmons County	July 1-31	3		
Grand Forks County		15		
Henry County	Aug. 1-31 May 1-June 30	3		
McHenry County				
Stuteman County	June 1-July 31	15		
Walsh County Ward County	June 1-30			
ward County	May 1-July 31	11		
Total for State		59		
Ohio:				
Cincinnati	June 12-Oct. 9	5		
Columbus	Sept. 12-18	1 27	2	
Dayton Springfield Toledo	Oct. 10-30	15	2	
Toledo	July 25-Aug. 7	2		
Total for State		50	2	
Oklahoma:	4 1 01			
Coal County	Aug. 1-31 Aug. 1-31	3 1		
Ellis County	Aug. 1–31	5		
Klowa County	Aug. 1–31	4		
Muskogee County	Aug. 1-31	1		
Oklahoma County— Oklahoma	Apr. 3-Aug. 21	51	1	
Washington County	Aug. 1-31	i		
Total for State		66	1	
Oregon:	Inly 1-31	8	İ	
Cass County	May 1-June 30	3		
Coos County	June 1-30	ĭ		
Lane County	July 1-31	1		

Place.	Date.	Cases	. Deaths.	Remarks.
egon—Continued.				
egon—Continued. Linn County	. July 1-31	. 2	3	
marion County	. May 1-Aug. 31	14	١	. .
Multnomah County	. May 1-June 30	3		.
Portland	. ADr. 1-Sept. 30	48		1
Tillamook County	. July 1-31	1		.[
Umatilla County	June 1-30 June 1-30	2		
Inion County Vashington County	. June 1-30	1		4
amhill County	. May 1-June 30 June 1-Aug. 31	14		
Total for State	1	102		
		102		
nsylvania: Philadelphia	. July 10-24	4		
Total for State		4	·	
				1
essee:	37		1	
ABUANOOES	NOV. 7-20	4		
	Tune 20 A 01	1 7		
uuaviile	Non 20-Aug. 21	2		
hattanoogaowelltown noxvilleashville. emphis	Nov. 1-27	2 5		
am burg	1404. 1-21			
Total for State		19		
nderson County	Aug. 1-31	5		
cher County	June 1-30	1		
amlan Camptin	T 1 20	22		
exar County exar County San Antonio owie County meron County erokee County	June 1-30	6		
xar County	June 1-July 31	1	1	
San Antonio	June 13-Oct. 31	14		
wie County	June 1-30	7		
neron County	June 1-30	1		
erokee County	June 1-30	1		
шин өөө оошиу	June 1-30	4		
ncho County	Aug. 1-31	2		
lis County	May 1-June 30	2 1		
lveston County	June 1-30	1		
Galveston	June 19-25	6	2	
nzales County ayson County	May 1-June 30 June 1-30	9	1	
rris County	June 1-30	12		
Houston	Mar. 28-Nov. 20	19		
rrison County	June 1-Aug 31	17		
ays County	June 1-Aug. 31 July 1-31	- 8		
nderson County	June 1-July 31	3Ŏ		
ferson County	May 1-June 30	3		
nes Count y	June 1-30	2		
inney County	June 1-30	1	1	
mar County	June 1-Aug. 31	27		
Paris	Nov. 21-27	29		
tagorda County	May 1-Aug. 31	11		
verick County— Eagle Pass	0 4 04 05	_		
Eagle Pass	Oct. 24-30	. 3		
Lennan County	June 1-30	19	-	
Waco	Nov. 29-Dec. 4	1	•••••	
am County	June 1-30 May 1-July 31 Apr. 9-June 30	. 5		
nnels County	Ang 0-July 31	26 11		
Saba Countyith County	June 1-30	10		
phens County	June 1-30	33	1	
rant County	May 1-June 30	33 19		
Fort Worth	June 1-July 31			
vis County	May 1-June 30	19		
hur County	May 1-Aug. 31	52		
Zandt County	May 1-June 30	6		
oria County	Aug. 1-31	6		
b County—	_ 1	- 1		
Laredo	June 3	1		
arton County	June 1-30 June 1-30	2		
chita County	June 1-30	5		
lliamson County	June 1-Aug. 31	12	1	
Total for State	-	477	9	
	=			
exelder County	May 1-Oct. 31	8		
the County	June 1-July 31	4		
Richmond	Dec. 4	3		

Place.	Date.	Cases.	Deaths.	Remarks.
tah—Continued.				
Carbon County	June 1-July 31	3		
Davis County	May 1-July 31	30		
Garfield County	May 1-July 31 June 1-July 31 May 1-Aug. 31 Aug. 1-Oct. 31	20		
Juab County	Aug. 1-Oct. 31	13		
Rich County	Oct. 1-31	4		
Salt Lake County	June 1-Oct. 31	112	l	
Sanpete County	May 1-Sept. 30	32		
Summit County	May 1-Sept. 30			
Tooele County Uinta County	May 1-31 May 1-Oct. 31			
Utah County	May 1-Oct. 31	101	1	
Wasatch County	Aug. 1-Oct. 31			
Weber County	-	11		
		615	2	
rmont: Smithfield	Nov. 20-27	1	<u></u>	
Total for State		1		
rginia: Lynchburg	June 20-26	1		
Total for State		1		
shington:	Oct 24_30	2		,
Seattle	July 1-Nov. 13	9		
Bellingham Seattle Spokane Tacoma	June 6-Nov. 13	8		
Tacoma	May 14-June 27	6		
Total for State		25		
est Virginia:				
Wheeling	Oct. 17-23	1		
Total for State		1		
	••••••			
sconsin:	Tam 1 Mrs 21	_		
Ashland County Barron County	Jan. 1-Mar. 31 Jan. 1-June 30			
Duamen Country	Any 1 Tuno 20	18		
Buffalo County	Jan. 1-Mar. 31	5		
Buffalo County Burnett County Calumet County Chippewa County Clark County	Jan. 1-Mar. 31 Jan. 1-June 30	11 2	•••••	
Chippewa County	Jan. 1-June 30	97	1	
Clark County	Jan. 1-June 30	20		
Columbia County Dane County		1 6		
Douglas County	Jan. 1-June 30	11		
Superior	Nov. 21-27	1		
Superior Dunn County Fond du Lac County	Jan. 1-June 30	39 3	2	
Jackson County	Jan. 1-June 30 Jan. 1-Mar. 31			
Juneau County	Jan. 1-June 30	42		
La Crosse County	Apr. 1-June 30	10		
La Crosse	June 13-Nov. 27 Jan. 1-June 30	6 41		
Marathon County	Jan. 1-June 30	2		
Marinette County-	1			
Marinette	Nov. 13-20 Apr. 1-June 30	1 24		
Milwaukee County Milwaukee	June 2-Dec. 4	10		
Oconto County	Jan. 1-June 30	25	1	
Oneida County	Apr. 1-June 30	1	••••••	
Outagamie County—	June 20-July 31	22		
Ozaukee County	Jan. 1-Mar. 31	13		
Pepin County	Jan. 1-Mar. 31	2	••••••	
Polk County	Jan. 1-Mar. 31	4 19		
Pierce County Polk County St. Croix County Sheboygan County Taylor County Trempelean County	Jan. 1-June 30	65		
Sheboygan County	Jan. 1-June 30	46		
Taylor County	Jan. 1-Mar. 31	5	••••••	
	work i work of access	0		
Vernon County	Jan. 1-Mar. 31	51		
Trampealeau County	Jan. 1-Mar. 31	51 1 14		

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin—Continued. Waupaca County. Waushara County Winnebago County. Wood County.	Jan. 1-June 30 Jan. 1-Mar. 81 Jan. 1-June 30 Apr. 1-June 30	27 1 17 2		
Total for State		775	4	
Grand total for the United States		6,090	31	

Plague in the United States.

[August 2-December 24, 1909.]

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

MORBIDITY AND MORTALITY.

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

[For smallpox and plague, see special tables.]

Cities C	Cities.	a	Week	uon,	tion,	Total deaths	cul	ber- osis.	Ent fev	teric ver.		rlet ver.		ph- ria.	Meas	sles.	i	oop ng 1gh.
Do			ended— States census,	all	Саяев.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		
Do. Dec. 14 S60,892 185 48 9 11 3 31 72 6 77 3	Do. Do. Do. Do. Do. Altoona, Pa. Do. Altoona, Pa. Do. Saltimore, Mich. Sayonne, N. J. Do. Seaver Falls, Pa. Do. Serkeley, Cal. Do. Do. Siddeford, Me. Bloxi, Miss. Blaghamton, N. Y. Do. Bo. Soston, Mass. Do. Soston, Mass.	Oct. 30 Nov. 6 Nov. 13 Nov. 20 Nov. 27 Dec. 4do Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 13 Nov. 20 Nov. 27 Dec. 4 Dec. 11 Dec. 4 Dec. 11do Nov. 27 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4 Dec. 11 Dec. 4	38, 973 14, 509 30, 345 508, 957 10, 477 32, 722 13, 000 13, 214 16, 145 5, 467 38, 647 560, 892	12 13 8 19 12 13 16 9 3 10 9 6 4 6 6 21 19 185 203 17	1 1 1 1 1 1 1 1 1 2 2	20	3 1 3 3 2 1 1 9 2 1 1 2 1 1 1 1	3	2 4 1 3 3 2 2 2 2 2 1 3 4 3 4 3		10 5 15 4 2 11 1 9 3 16 1 1 2 2 7 2 68	2 1 1	1 2 2 11 5 2 1 2 20 20	6	8	1		

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

Cities. Week ended—	Week United de	Total deaths from		ber- osis.		teric rer.		rlet ver.	Di th	iph- eris.	Meas	iles.	Wh ir cou	oop g gh.	
	States census, 1900.	all causes.	Свяее.	Deaths.	Cases.	Deaths.	Самея.	Deaths.	Cases.	Deaths.	Casses.	Deaths.	Сваев.	Deaths.	
Brockton, Mass	Dec. 11	40,063	13			3	2	3							
Butler, Pa	Nov. 27	10, 853 91, 886	7	5	i	1		1		4	1				
Cambridge, Mass Camden, N. J	Dec. 11	91,886 75,935	28 14	2	3		• • • •	7		8	1	13		4	••••
Camden, S. C	do	2, 441	2		l					ĭ		1	1		
Canton, Ohio	Nov. 27	30,667	10		1			1		٠٠		·	ļ. .		
Do Do	Dec. 4 Dec. 11		11 16	• • • •	1	2				2 1	• • • •	,			
Carbondale, Pa	Dec. 4	13,536	3	••••		•	• • • •	3		•		17	i	• • • •	
Charlotte, N. C	Nov. 27	18,091	8	ï	i	1				i		14			
Do	Dec. 4		12		2	1						18			
Do Chattanooga, Tenn	Dec. 11 Nov. 6	20.154	9	i	1	i				;-		17	1		
Do	Nov. 0	30, 154		i						1 5	::::	17			
D0	Nov. 27			<u>-</u>	!	3				2					
Do	Dec. 4				ļ	1				1					
Do	Dec. 11	94 079		··i	···i·	1		7		1		····i			
Cheksea, Mass Chicago, Ill	do	34,072 1,698,575 19,167	570	54	64	19	5	167	15	167	20		3	23	
Chicopee, Mass	Dec. 4	19, 167	10	1						2					
Do Cincinnati, Ohio	Dec. 11	1	5	1	-::-	٠٠.		1	:	1	··i·				
Cleveland, Ohio	Dec. 4 Dec. 10	325,902 381,768	106 133	32 17	18	6	3	15 17	2	11 35	2	12	<u> : : : :</u>		
Clinton, Mass	Dec. 10	13,667	100	17		·		11	-	1				'	
Do	Dec 11		3	ī	2					·					
Coffeyville, Kans Do	Nov. 27		5	2	1	3	2								
Do	Dec. 4 Dec. 11		2 2	1						1					
Do Columbus, Ga		17,614	9							1					• • • •
Columbus, Ohio	do	125,560	42	4	4	5 1		3		4		22	i	i	
Columbus, Ohio Concord, N. H	Dec. 4	125,560 19,632	7	1	1	1				2			¦		
Do Covington, Ky	Dec. 11 Dec. 4	42,938	6 14		4	··i·	· · · ·			8					
Do	Dec. 11	42, 836	8		i	1				i		•		;·	
Danville, Ill	do	16,534	6					6							
Dayton, Ohio	Nov. 27	85, 333	19	1		1		3			ļ				·
Do Do	Dec. 4 Dec. 11		21 33	• • • •	3	1	····2	4 3		6 2					•
Detroit, Mich	Dec. 11	285,704	141	• • • •	4		2	52	3		·····	. 2	1	• • • • •	
Do	Dec. 11	l	145					52	4	21 23	2	2			
Do Duluth, Minn	Nov. 27	36,297	17	··i	1			6		15	1	2			
1)0	Dec. 4 Dec. 11		25 22	7 3	2 2			5			i			• • • •	
Do Dunkirk, N. Y	Dec. 11 Dec. 4	11,616	47	1	í			9		9	1				
Do	Dec. 11		6	ī	ī					1		1			
Do	Dec 4	15, 184	7					1				! 		!	
Elmino N V	Dec. 11 Dec. 4	35,672	6 3	1 16	1	···i	• • • •								
100	Dec. 11	35,012	8	10	i			···2		3					
El Paso. Tex	Nov. 30	15,905	25	2	2	6	1			3				2 1	
Do Evansville, Ind	Dec. 4		24			4	1			1	1			1	1
Evansville, Ind	Dec. 11 Nov. 27	59,007 52,733	14 15	·····2	1	1 2	• • • •	17 14		2		1	·i	2	
Erie, Pa Do	Dec. 4	52, 155	13	5	2	3		11		1	1	2			
Do	Dec. 11		13	2		3	1	22		1					
Everett, Mass	do	24,336	3	2	1			1		1	1		• • • •		
Everett, Wash	Nov. 13 Nov. 20	• • • • • • • • • • • • • • • • • • • •	4 3	••••	• • • •	····2	• • • • •	3 5	• • • • •	• • • •		1	• • • •		
Do	Nov. 20 Nov. 27		8		··i·	2		9		• • • •		1			
Do Do	Dec. 4	• • • • • • • • • • • • • • • • • • • •	3							••••					• • • •
Eureka, Cal Fall River, Mass	Nov. 20		0	•••	ا - ي - ا			٠٠٠٠		••••			• • • •	ا ـ ي	
Fall River, Mass	Dec. 11 Dec. 4	104,863 17,613	36 6	5	1	1	• • • •	6	••••	1 6	1		• • • •	2	
Findlay, Óhio Do	Dec. 11	17,013	2					i		4	1.				
Frederick, Md	Nov. 20		3			i		î		. .		2		1	
							- 1			-	1			1 1	

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

FLORIDA—Pensacola.—Month of November, 1909. Estimated population, 30,000. Total number of deaths 36, including typhoid fever 1 and tuberculosis 1.

Indiana.—Month of September, 1909. Estimated population, 2,732,550. Total number of deaths 2,660, including diphtheria 24, measles 3, scarlet fever 6, typhoid fever 132, whooping cough 16, tuberculosis 307. Cases reported: Diphtheria 279, typhoid fever 757, smallpox 51. Month of October, 1909. Total number of deaths 2,831, including diphtheria 77, scarlet fever 18, typhoid fever 155, whooping cough 13, tuberculosis 307. Cases reported: Diphtheria 439, smallpox 112.

Iowa—Sioux City.—Month of November, 1909. Estimated population, 50,000. Total number of deaths not reported. No deaths from contagious diseases reported. Cases reported: Diphtheria 20, scarlet fever 18.

Massachusetts—Newton.—Month of November, 1909. Estimated population, 38,919. Total number of deaths 36, including scarlet fever 1, tuberculosis 1. Cases reported: Diphtheria 13, measles 2, scarlet fever 12.

Worcester.—Month of July, 1909. Estimated population, 143,333. Total number of deaths 181, including measles 3, whooping cough 3 and tuberculosis 15. Cases reported: Diphtheria 12, measles 14 scarlet fever 6, typhoid fever 3, tuberculosis 24.

Month of August, 1909. Total number of deaths 210, including diphtheria 1, measles 1, typhoid fever 2, whooping cough 5, tuberculosis 12, pellagra 1. Cases reported: Diphtheria 18, measles 4, scarlet fever 16, typhoid fever 34, tuberculosis 29.

New Hampshire—Concord.—Month of October, 1909. Estimated population, 20,000. Total number of deaths 44, including diphtheria 2, typhoid fever 3, tuberculosis 3. Cases reported: Diphtheria 31, typhoid fever 11.

Month of November, 1909. Total number of deaths 28, including diphtheria 1, tuberculosis 1. Cases reported: Diphtheria 29, scarlet fever 1, typhoid fever 3.

New York—Buffalo.—Month of October, 1909. Population, 352,387. Total number of deaths 536, including diphtheria 18, measles 6, scarlet fever 12, typhoid fever 8, whooping cough 1, phthisis pulmonalis 46. Cases reported: Diphtheria 75, measles 267, scarlet fever 158, smallpox 3, whooping cough 15, typhoid fever 33, tuberculosis 118.

OHIO—Columbus.—Month of October, 1909. Population, 125,560. Total number of deaths 169, including diphtheria 1, typhoid fever 2,

and tuberculosis 19. Cases reported: Diphtheria 83, measles 25, scarlet fever 30, typhoid fever 26, whooping cough 6, tuberculosis 26.

Month of November, 1909. Total number of deaths 174, including diphtheria 1, typhoid fever 4, tuberculosis 15. Cases reported: Diphtheria 29, measles 72, scarlet fever 30, typhoid fever 14, whooping cough 3, tuberculosis 23.

UTAH.—Month of October, 1909. Reports of contagious diseases from 27 counties, having an estimated population of 346,873, show 1 death from diphtheria, 4 deaths from scarlet fever, 1 death from smallpox, 32 deaths from typhoid fever, 12 from tuberculosis, and 3 from whooping cough. Cases reported: Diphtheria 57, measles 10, scarlet fever 96, smallpox 117, typhoid fever 353, tuberculosis 15 (incomplete), whooping cough 75.

Washington—Tacoma.—Month of November, 1909. Estimated population, 120,000. Total number of deaths 66, including scarlet fever 2, typhoid fever 1, tuberculosis 4, Cases reported: Diphtheria 6, scarlet fever 17, tuberculosis 2.

FOREIGN AND INSULAR.

AUSTRALIA.

Sydney—Examination of rodents for plaque infection.

The following information is taken from the plague bulletin issued by the department of public health of New South Wales, October 18: Week ended October 16. Rodents destroyed 1,157, examined 37, found infected 0.

Last case of human plague: Reported May 29, 1909. Last case of rodent plague: Found June 15, 1909.

CHINA.

Amoy—Inspection of vessels—Cholera and plaque.

Passed Assistant Surgeon Foster reports, November 4:

Week ended October 30. Bills of health issued: October 25, the British steamship Kaifong with 59 in crew and 39 cabin passengers for Manila, Iloilo, and Cebu, granted a supplemental bill of health. One passenger rejected for trachoma. Vessel anchored in the stream while in port. All on board inspected at time of sailing. viséed for 126 pieces of freight. October 27, the British steamship Taisang with 64 in crew and 42 cabin and 165 steerage passengers for Manila granted an original bill of health. Two passengers rejected for favus. Crew and steerage passengers bathed and their clothing disinfected by steam. All on board inspected at time of Vessel anchored in the stream while in port. Manifests viséed for 2,320 packages of freight.

During the week ended October 30 there were reported 40 deaths

from plague and 30 from cholera in Amoy.

Hongkong—Examination of emigrants.

Acting Assistant Surgeon Hough reports, November 4 and 9: Weeks ended October 30 and November 6. Quarantine restrictions enforced by and against Hongkong remain as reported October 23.

Aliens for Honolulu and Pacific coast ports.—Week ended October 30. Examined 81, rejected 8. Week ended November 6. Examined 30, rejected 4.

Aliens for Philippine Islands.—Week ended October 30. Examined 17, rejected 2. Week ended November 6. Examined 19, rejected 4.

INSPECTION AND DISINFECTION OF VESSELS.

Week ended October 30.

Vessels granted bills of health	9
Total members of crews.	959
Total cabin passengers	270

Total steerage passengers	238
Members of crews bathed	818
Steerage passengers bathed	238
Pieces of baggage disinfected	935
Vessels disinfected to kill rats.	2
Crews' quarters disinfected:	_
By formaldehyde	· 6
By sulphur.	
by sulphur	J
Week ended November 6.	
week ended industries 6.	
Vessels granted bills of health	12
Total members of crews	1.074
Total cabin passengers	183
Total steerage passengers	189
Members of crews bathed.	831
Steerage passengers bathed	180
Pieces of baggage disinfected.	
Vessels disinfected to kill rats.	3,017
	3
Crews' quarters disinfected:	
By formaldehyde	9
By sulphur	3

CUBA.

Cienfuegos—Inspection of vessels.

Acting Assistant Surgeon Suarez reports, December 6:

Week ended December 4.

Vessels inspected	3
Bills of health issued	3
Members of crews of outgoing vessels inspected	89

No quarantinable disease reported.

Matanzas—Inspection of vessels.

Acting Assistant Surgeon Nuñez reports, December 6:

Week ended December 4. Bills of health issued to 2 vessels bound for ports in the United States. No quarantinable disease reported. The department of sanitation reports the inspection of 3,842 houses from November 20 to 30.

Santiago—Inspection of vessels.

Acting Assistant Surgeon Wilson reports, December 10:

Week ended December 4. Bills of health issued to 6 vessels bound for the United States and its dependencies. No vessel disinfected. The sanitary department reports 3,108 houses inspected.

ECUADOR.

Quito-Increase of plague in Guayaquil.

Minister Fox reports, November 17, through the Department of State, that plague is increasing in Guayaquil and that the railway authorities have been requested to take measures to prevent the spread of the disease by traffic to the interior of Ecuador.

HAWAII.

Plague-prevention work.

Chief Quarantine Officer Hobdy reports, November 23 and 29:

HONOLULU.

Last case of rat plague: (Aiea) 9 miles from Honolulu, August 22, 1907. Last case of human plague: Honolulu, July 17, 1907.

Week ended November 20, 1909.

Total rats taken	555
Trapped	543
Found dead	(
Shot from trees	12
Examined bacteriologically	403
Plague rats found.	0
Classification of rats trapped:	
Mus alexandrinus.	71
Mus musculus.	216
Mus norvegicus	59
Mus rattus.	197
Classification of rats shot from trees:	
Mus alexandrinus.	4
Mus rattus.	8
Average number of traps set daily	
	-,
Week ended November 27.	
Week ended 1400ember 27.	
	512
Total rats taken	512 477
Total rats taken	512 477 0
Total rats taken	477
Total rats taken Trapped Found dead Shot from trees	477 0 35
Total rats taken. Trapped. Found dead. Shot from trees. Examined bacteriologically.	477 0 35 359
Total rats taken	477 0 35 359
Total rats taken Trapped Found dead Shot from trees Examined bacteriologically Plague rats found. Classification of rats trapped:	477 0 35 359
Total rats taken Trapped Found dead Shot from trees Examined bacteriologically Plague rats found. Classification of rats trapped: Mus alexandrinus.	477 0 35 359
Total rats taken Trapped Found dead Shot from trees. Examined bacteriologically. Plague rats found. Classification of rats trapped: Mus alexandrinus. Mus musculus.	477 0 35 359 . 0
Total rats taken Trapped Found dead Shot from trees. Examined bacteriologically Plague rats found Classification of rats trapped: Mus alexandrinus Mus musculus. Mus norvegicus.	477 0 35 359 . 0 72 174 58
Total rats taken. Trapped. Found dead. Shot from trees. Examined bacteriologically. Plague rats found. Classification of rats trapped: Mus alexandrinus. Mus musculus. Mus norvegicus. Mus rattus.	477 0 35 359 . 0 72 174
Total rats taken. Trapped. Found dead. Shot from trees. Examined bacteriologically. Plague rats found. Classification of rats trapped: Mus alexandrinus. Mus musculus. Mus norvegicus. Mus rattus. Classification of rats shot from trees:	477 0 35 359 . 0 72 174 58
Total rats taken. Trapped. Found dead. Shot from trees. Examined bacteriologically. Plague rats found. Classification of rats trapped: Mus alexandrinus. Mus musculus. Mus norvegicus. Mus norvegicus. Mus rattus. Classification of rats shot from trees: Mus alexandrinus.	477 0 35 359 0 72 174 58 173
Total rats taken. Trapped. Found dead. Shot from trees. Examined bacteriologically. Plague rats found. Classification of rats trapped: Mus alexandrinus. Mus musculus. Mus norvegicus. Mus rattus. Classification of rats shot from trees:	4777 0 359 359 0 72 174 58 173 6

HILO.

Last case rat plague: (Hanomu) Hilo, October 11, 1909. Last case human plague: (Pepeekeo) October 4, 1909.

INDIA.

Calcutta—Cholera, plague, and small pox.

Acting Assistant Surgeon Allan reports, November 18:

Week ended November 6. In Calcutta there were 7 deaths from cholera, 5 from plague, and 1 death from smallpox; in all Bengal, 131 cases of plague with 89 deaths; in all India, 5,725 cases with 4,479 deaths.

Week ended November 13. Bill of health issued to the steamship *Trifels*, bound for Boston and New York, with a total crew of 57.

The holds had been fumigated at Hamburg. Rat guards were placed on wharf lines and Asiatics' effects disinfected.

ITALY.

Naples—Examination of emigrants—Smallpox.

Surgeon Geddings reports, November 29:

Vessels inspected at Naples, week ended November 27.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disin- fected.
Nov. 23 24 26 27	Verona Duca di Genova Berlin Carmania	Philadelphia. New York. dodo.	721 740 948	176 168 182	875 1,150 1,220
	Total		2,409	526	3,245

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
Nov. 23 24 26 27	Verona Duca di Genova Berlin Carmania	12 20 21	3 3 3	12 5 7	1 1	2 3 13	29 32 45
	Total	53	9	24	2	18	106

Smallpox in Naples.—During the week ended November 28, 15 cases of smallpox, with 2 deaths, were reported at the health office of the city of Naples.

JAPAN.

Yokohama—Inspection of vessels—Examination of emigrants.

Passed Assistant Surgeon Cumming reports, November 24:

Week ended November 20. Vessels inspected: Steamships Nikko Maru for Manila; Minnesota for Seattle; Lowther Castle for New York; Fitz Patrick for Tacoma. The Nikko Maru and Lowther Castle were fumigated for the destruction of rats.

No quarantinable disease was reported in the port or vicinity

during the week.

Examination of emigrants.

Per steamship Seattle Maru for Seattle, November 13: Examined 3, held 1. Per steamship Nikko Maru for Manila, November 15: Examined 22, held 6. Per steamship Minnesota for Seattle, November 1: Examined 24, held 3. Per steamship Mongolia for San Francisco via Honolulu, November 24: Examined 16; for Honolulu, rejected 1, held 1; for San Francisco, rejected 1. Per steamship Kaga Maru for Seattle, November 24: Examined 29, held 20.

Kobe—Examination of emigrants—Plague.

Acting Assistant Surgeon Knight reports, November 17:

Week ended November 13. Supplemental bills of health granted to 4 steamships and original bill of health to 1 steamship. There were inspected 725 members of crews and 585 steerage passengers, and 56 members of crews and 17 steerage passengers were bathed and their effects disinfected by steam. The number of pieces of baggage steamed was 194 and bedding 34. Manifests were viséed for 42,099 pieces of freight, amounting to 3,995 tons. During the week 12 cases of human hair were disinfected with formalin.

Emigrants examined: Per steamship Seattle Maru for Tacoma, passed 3, recommended for rejection 10. Per steamship Minnesota for Seattle, passed 14, recommended for rejection 24. The emigrants were 7 days in quarantine detention at Ono before embarkation.

The official returns of infectious diseases for the week show 25

cases of plague with 14 deaths reported in Kobe.

Consul Scidmore reports, October 18:

From September 23 to October 18, 39 new cases of plague with 27 deaths were reported by the municipal authorities of Kobe. These figures show a total of 60 cases with 43 deaths since the outbreak of the disease August 31.

The local press reports a sudden outbreak of cholera during the past week in Kadono district, with 187 cases and 76 deaths to October

16.

Nagasaki—Examination of emigrants—Cholera at Moji.

Sanitary Inspector Bowie reports, November 17:

November 10. Per steamship *Minnesota*, emigrants examined 6, held for observation 1. November 16. Per steamship *Mongolia*, for Hawaii, emigrants examined 18, recommended for rejection 3.

One case of cholera with 1 death was reported at Moji.

MEXICO.

Coatzacoalcos—Inspection of vessels.

Acting Assistant Surgeon Thompson reports, December 2 and 9: Week ended December 1. Vessels inspected: November 27, steamship Manuel Calvo, for New York via Habana; December 1, steamships City of Tampico, for Texas City via Veracruz and Tampico,

and Oregonian, for Charleston.

Week ended December 8. Vessels inspected: Steamships Median, for a port in the United States via Veracruz and Tampico, and Nicaragua, for Port Arthur via Frontera; December 4, steamship San Cristobal, for Port Arthur; December 6, steamships Calabria, for a port in the United States via Veracruz and Tampico; Honduras, for New Orleans via Veracruz and Tampico; and Director, for a port in the United States via Veracruz and Tampico; December 7, steamship Texas, for a port in the United States via Veracruz; December 8, steamship Texan, for New York.

PHILIPPINE ISLANDS.

Manila—Cholera and smallpox—Inspection of vessels.

Chief Quarantine Officer Heiser reports, November 4: Week ended October 30. Twenty-four cases of cholera with 20 deaths and 1 case of smallpox occurred in the city of Manila.

Cholera in the provinces.

Provinces.	Cases.	Deaths.
lbay		
ataan	39	2
ohol	4	,
ulacan amarines	50	, 4
avite	7	
ebu	1	•
riental Negros.	16	1
izal	15	1
arlac	7	
Total	157	11

Consular bills of health issued: October 28, the British steamship Bellerophon, en route from Glasgow to Seattle and Tacoma, with 86 in crew, granted a supplemental bill of health. Cargo manifests signed, and personnel inspected on board at hour of sailing. October 29, the British steamship Kaifong, en route from Hongkong and Amoy to Cebu and Iloilo, with 65 in crew and 30 cabin passengers in transit, granted a supplemental bill of health. Vessel partially disinfected. Crew bathed, and their effects disinfected at the Mariveles quarantine station.

RUSSIA.

Libau—Examination of emigrants.

Acting Assistant Surgeon De Forest reports, November 29 and December 6. Week ended November 25: For steamship *Birma*, sailing for New York November 30, 503 emigrants have been examined. At time of sailing they will have been in Libau 5 days.

Week ended December 2. The steamship Birma sailed from Libau November 30, with 556 passengers and a crew of 8 members. All had been in Libau for 5 days under observation; 153 pieces of baggage

were disinfected.

There was 1 death from smallpox in Libau during the week ended November 21.

Moscow—Cholera.

The following information was received from the Department of State, December 14:

American consul at Moscow reports cholera.

VENEZUELA.

La Guaira—Inspection of vessels—Yellow fever in Caracas.

Acting Assistant Surgeon Kellogg reports, November 21 and 28:

Vessels inspected, week ended November 20.

Date.	Vessel.	Destination.	Crew.	Passengers taken.	Passengers in transit.
Nov. 18	Caracas	New York	19	1	0
18		New York and Porto Rico.	70	6	2
20		Colon	85	29	225

Baggage inspected and passed, 9 pieces.

Week ended November 27.

Date.	Vessel.	Destination.	Crew.	Passengers taken.	Passengers in transit.
Nov. 21 25 25 26	Buenos Aires. La Normandie. Prins Willem I. Belgian	Porto Rico	128 191 39 42	26 82 2 2	38 11 7 0

Baggage inspected and passed, 22 pieces.

During the week ended November 20, 1 case of yellow fever was reported in Caracas.

Cholera, yellow fever, plague, and smallpox.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources from June 26 to December 24, 1909. For reports received from December 25, 1908, to June 25, 1909. See Public Health Reports for June 25, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Belgium:	1			7
	Oct. 26-30	q	6	At Boom, 10 miles distant.
China:				110 20011, 10 1111100 01101011
Amov	June 13-Oct. 30.		405	
Chefoo	Aug. 28	••••••	5	Among Europeans; Sept. 11, epi- demic.
Hankow	July 17-Oct. 16	14	5	
Kang Thau	Apr. 1-June 30	4	2	
Shanghai	July 26–31	3	1	On s. s. Hudson; Aug. 7, present among foreigners and natives;
Kulanosu	Oct. 2		3	Oct. 2, still present among natives.
Swatow	May 11-29	i		Present in vicinity; Aug. 28, 3 cases, 2 deaths, on s. s. Waishing.
Germany:				
	Oct. 24-Nov. 12.	6		
Heydekrug district	Oct. 20-Nov. 18.	10	2	
Konigsberg	July 21	' '	1	
Labiau district	Nov. 1-6	4		
Niederung district	Oct. 16-Nov. 12.	. 6	2	
Pakalisne	Sept. 20 Oct. 23–Nov. 6	2	1	Near Russ.
Skirwietell	Oct. 23-Nov. 6	5	·····	
	Oct. 23-30			
	Sept. 18		1	25 miles from Stettin.
Tilsit	Oct. 11		1.	

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay	. May 30-Nov. 23		438	
Calcutta				1
Madras, presidency				!
Madras	. May 29-Aug. 20		. 7	1
Negapatam	. May 8-Oct. 1		. 23	
Rangoon	. May 16-Nov. 13		. 91	İ
indo-China:		1	1	1
Saigon	.: May 9-Oct. 2	24	18	•
apan:	i -	į.	i	•
Amagasaki	. Aug. 14-21	4		,
Kadono, district	.: Oct. 10-16	187	76	
Kagawa, prefecture	. Aug. 8–14	7		
Karatsu	Sept. 1-9	11		On s. s. Taian Maru.
Kobe	Sept. 6-Nov. 6	4		July 31, 1 case on s. s. Mile.
Kyoto	Oct. 10-26	200		
Moji Osaka	Oct. 9-Nov. 17	5		
Osaka	. Nov. 7–13	, 1		
Shikoku, island:	0-4-00	1	!	Descent
Matsuyama Wakamatsu	Oct. 20			Present.
w akamatsu	.: Oct. 30	2	2	!
ava:	G+ 10 O-+ 20	700	054	Among methods and Ohimese
Batavia	Sept. 12-Oct. 30	182	204	Among natives and Chinese.
Krawang	Vet. 27			Epidemic.
Chamalas	Gent 11 92		·	Epidemic in northern part.
Batavia Krawang Corea Chemulpo Seoul	Sept. 11-23	1 079	CE1	Epidemic.
Seoul	Sept. 19-29	1.072	091	Sept. 29, epidemic at Fuser
			į.	Peng Yan and along the Yalu River.
Ianchuria:			!	River.
	Aug 11-Nov 1	29	26	Case Aug. 11 on s. s. Kobe Maru
DalnyLiaoyang	Aug. 11-100. 1	25	1	Case Aug. 11 on s. s. Robe Maru
Mukden	Ang 14		ī	
Tashihchiao	Ang 11		i	
Vinkou	Aug. 11	6	î	
Yinkouetherlands, the	Aug. 20-Sept. 4		·	5 deaths among boatmen from
etherianus, the	Aug. 20-5cpt. 1	• • • • • • • • •		Rotterdam.
Amsterdam	Sept. 10	1	-1	2700001 44141.
Kreda	Aug. 30-Sept. 4	ī	1	
Dirksland	Sept. 10	ī		
Dirksland Dordrecht	Aug. 30			Present.
Garkum	Aug. 30-Sept. 4	1	t I	
GarkumHonsweert	Sept. 27-Oct. 2	3	1	
Hattem	Oct. 1–8	4	1	
Holsteren	Sept. 1-7	1		
Hoogvliet	Sept. 1-7	1		
Lopik	Sept. 27-Oct. 2	2		
Middleburg	Sept. 4	1		
Pernis	Sept. 1-7	2		
Rotterdam	Aug. 20-Sept. 11	34	15	
Tholen	Sept. 4	1		
Uithorn	Aug. 30-Sept. 4	1		
Utrecht, province—	1			
Jaarsfeld	Oct. 20-Nov. 1	2	1	
Utrecht	Sept. 4			
Vlaardinger	Sept. 4			
hilippine Islands: Manila				
Manila	July 11-Oct. 30	163	131	Fourth quarter, 1908, 308 cases
			1	and 190 deaths; first quarter
				1909, 1 death (imported); sec-
	i		i I	1909, 1 death (imported); second quarter 1909, no cholers. Fourth quarter 1908, 7,380 cases and 4,292 deaths; first quarter 1909, 2,221 cases and 1,405
Provinces				Fourth quarter 1908, 7,380 cases
			! !	and 4,292 deaths; first quarter
				1909, 2,221 cases and 1,405
			l i	desims, second dustrer 1909
				961 cases and 630 deaths.
Albay	Aug. 27-Oct. 30	267	270	
Ambos Camarines	July 4-Oct. 30	774	557	
Bataan	Sept. 5-Oct. 30	285	220	
Bohol	Aug. 28-Oct. 30	141	86	
Bulacan		421	403	
Cagayan	July 11-Sept. 18	222	117	
Cavite	Sept. 16-Oct. 30	14	13	
Cebu	May 16-Oct. 30	427	341	5 4
Dapitan	May 9-15	· · · · <u>; : :</u> ·	<u></u> .	Present.
Ilocos NorteIloilo	Aug. 15-Oct. 23 May 23-June 19 July 18-24	152	85	
Lioilo	May 23-June 19	28	18	
	1441er 10 04	5	4	
Isabela	July 10-24			
Isabela Leyte	June 6-Sept. 25	28	14	
Isabela	May 29-July 3		14 9	

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Continued Previnces—Continued. Negros, Ocidental. Negros, Oriental. Pampanga. Pangasinan Risal. Samar. Sorsogon Tarlac. Russia, general.		8 818 665 17 48 42 8 66 13,361	2 589 338 12 37 26 2 46 5,677	July 23, present in Kreutzburg, Mahlgraben, Muravjevo, Pl- nega, Radsiwilischki, Keval,
Alexandrovosk Archangel. Astrakhan Baku, government Chmalysk, district Courland Cronstadt. Dorpat Drissa. Esthonia, government Finland, eeneral	Aug. 28–Oct. 1. June 26–Nov. 6. Sept. 17–Nov. 6. July 4–Nov. 13. July 1. July 5–Oct. 1. June 30–Sept. 17. Aug. 14–20.	10 368 24 57 1 245 66	200 12 24 107 26	Schaulen, and Tver.
Mariengam Viborg. Gadjatschesk Griva Grodno	June 23-24	1 1 53 128 32	17 15 1 18 56 17 7	
Jaroslav, government. Jaroslav Jalta, district. Kem. Kharkov Kherson Kief. Kostroma Kretsky, district Livonia	Oct. 1	20 1 66 227 1	177 302 24 10 41 84	Fresent. July 30, present.
Mohileve, government Moscow	July 15-Oct. 1	90 28 131 29 159 393 11 27 711	43 17 67 11 76 131 7 11 202	Dec. 14, still present.
Poltava, government	July 1-Nov. 13 Aug. 21-27 July 1-Oct. 23 June 24-Oct. 23 July 30-Sept. 17 Aug. 15-Nov. 6	105 142 2• 331 8 185 83 30 10	129 7 103 59 19	
St. Petersburg, government. St. Petersburg. Tver, government. Viatka, government. Vilna. Vitebsk, government. Volhynia. Vologda, government.	June 9-Nov. 13 June 2-Nov. 13 Aug. 15-Oct. 30 July 6-24 July 11-Aug. 21 July 9-Nov. 13 Oct. 30-Nov. 6	1,008 6,085 378 2 61 764	539 2, 352 99 2 20 288	Present.
Siam: Bangkok. Siberia: Vladivostok. Straits Settlements: Singapore. Sumatra: Djambi. Palembang.	Sept. 23-Oct. 21 May 9-Sept. 18	220	20 113	Among natives. Present.
Sweden: Stockholm	;			Imported.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Barbados, general	June 13-Aug. 14	2	1	St. Joseph Parish, December to June, 14 deaths not previously reported.
Brazil: Bahia Manaos	May 22-Nov. 19 May 23-Nov. 20	54	28 14	Apr. 24-May 1-2 deaths. Re-
ParaPernambuco	May 30-Nov. 27 Apr. 15-Aug. 31	91	70 11	ported out of date.
British Guiana: Suddie Ecuador:	July 22		1	35 miles from Georgetown.
Guayaquil	May 23-Nov. 13 June 5-Nov. 29		4 0	Sept. 11, 2 cases imported from
				the district of Acanceh.
Peto Tekik Veracruz Panama:	Oct. 1 Sept. 24	1	1	On s. s. Sonora.
Canal Zone— Ancon	Mar. 1-31	•••••	•••••	1 case at Culebra Island quaran- tine station, from a vessel, and 1 fatal case en route from Guay-
♥enezuela:				aquil.
Caracas	Nov. 14-20	7	6	
·	PLA	GUE.		
Australia:	A 20 T 10	0		And plainter
Adelaide Bunbury	Apr. 30-June 12 June 4	$\frac{2}{1}$	2	And vicinity. On s. s. Zoroaster.
Mackav	Jan. 21-June 6	$\hat{2}$	2	OH SI SI EGIOLESISI.
Sydney	Apr. 18-May 29	5	1	
TerceiraBahrein Island, Persian Gulf Brazil:	May 29-June 10	i	6	
BahiaPernambucoRio de Janeiro	May 22-Nov. 5 Sept. 1-Oct. 15 May 17-Nov. 1		52 9 3	
British East Africa: Kisumu	July 10-Aug. 24	12	12	
Chile: Antofagasta Iquique	May 9-30 May 20-Sept. 22	13 23	5 12	Oct. 16, still present. Do. Present.
Mejillones China: Amoy	May 4-Oct. 16 June 1-Oct. 30		1,181	riescht.
Canton Chang-Poo Chinchew	May 9-Aug. 7 July 23 May 22	325	211	Epidemic. Do.
Eng-Ta-Tau	July 1-31 Oct. 9	ii	4	
Hankow		92	83	1 case on river steamer. Dec. 7, present.
Hongkong Kang-be	May 2-Aug. 18 July 24	61	59	
Kang Thau	Apr. 1-July 31 May 23-29	125	62 7	
Swatow district	May 16-July 3		450	July 1, 200 cases still present in Touchowfu and Yin Shan.
Swatow	May 16-July 19	!	2	Procent
Babohoyo	Sept. 21 June 1-30	3 1	1	Present.
Duran	July 16-31	140		Sept. 21, again present.
Guayaquil Huigra Egypt:	May 23-Oct. 23 May 1-June 15	149 16	111 3	
Alexandria Port Said	May 30-Oct. 17 May 29-Oct. 27	18 15	11 7	
Provinces— Assiout Beherach	May 14-Sept. 28 June 14-Sept. 8	48 37	8 14	
	June 14-Sept. 8			

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt—Continued.				
Provinces—Continued.				
Garbieh	June 2-Nov. 9	63		1
Fayum	June 3-23 Jan. 18-Nov. 27	15 92		
MenoufGerman East Africa:				
Muanza district	Apr. 30-May 22		12	:
Hanomu	Oct. 11			
Hilo	Aug. 19-Oct. 4	4		Cases Sept. 6 and 19 at Papaikou
Honolulu	July 20	1		The case arrived on the s. s. Korea had been ill 11 days
		i	!	and probably received infec
			1	tion at Hongkong.
Olaa plantation	Aug. 20-22	3	2	
India: Bombay Presidency and	May 16-Nov. 6	16,944	12,063	
Sind.	Mars 10 Non- 6	2 605	0.264	
Madras Presidency	May 16-Nov. 6 May 16-Nov. 6		2,364 1,337	
Bengal United provinces	May 16-Nov. 6	8.724	7,650	
Punjab	May 16-Nov. 6	10, 290	8,710	
Burma	May 16-Nov. 6	1,688	1,577	•
Central provinces, includ-	May 16-Nov. 6	10,704	9,495	1
ing Berar.	36 40 37 4			
Mysore State.	May 16-Nov 6	3,798	2,673	
Hyderabad State	Sept. 12-Nov. 6 July 18-Nov. 6	154 3, 385	129 2,465	
Central India	May 16-Nov. 6	4,021	3,330	
wara.	may 10-1101. U	1,021	0,000	
Northwest Province	Sept. 26-Oct. 2	1		
Kashmir	May 16-Nov. 6	52	35	
0 14-4-1		<i>e</i> E 110	£1 000	
Grand total	• • • • • • • • • • • • • • • • • • • •	65, 112	51,828	
Indo-China:				
Saigon	May 9-Oct. 23	119	115	
Japan:		:		
Formosa	May 23-July 17	223	156	
Kobe	May 30-Nov. 13	198	143	Hiogo ken, including Kobe, Jan.
Oseko	July 4 Nov. 12	3	1	1 to Oct. 22, 159 cases.
Osaka Nagasaki Shikoku, island	Sent 11			Present on a vessel.
Shikoku, island	July 17-Aug. 3	3	1	
				suyama.
Shimonoseki	Sept. 11			Present.
Tokyo	June 26	3		
Yokohama	May 25-Aug. 7	28 110	24 74	
Mauritius	Арг. 1-100. 17	110	17	
Casablanca	July 15-Oct. 4		5	Among troops.
Pern:	-			- ·
Arequipa, department	May 8-Sept. 23	15	4	
Chala	July 3-15	• • • • • • • •	•••••	Present.
MODENDO	JUIV 0-10		6	Du.
Cajamarca, department Callao, department	May 8-Aug 12	10	4	
Callao	June 20-Aug. 7			Present. Sept. 1, again present,
Ica, department	July 3-Sept. 9	Z		
Lambayeque, department	May 8-Aug. 12	18	11	
Eten	July 15			Present.
Libertad, department	May 8-Sept. 23	26	· 13	Do.
SalaverryLima, department	July 15 May 8–Sept. 23	37	16	
Cerro Azul	July 15			Do.
Moquegua, department	July 16-29	6	2	_
Îlo	July 15			_ Do.
Pescadores Islands	June 27-July 3	4		From s. s. Lodore.
llo	June 20-Tuler 15	46	33	Present.
Russia:	ame want in	•••••	••••••	
Kirgisenaul	Aug. 5-8	19	18	In the Ural district to Aug. 14,
			'	22 deaths.
Siam:	A OF G			
Bangkok	Apr. 25-Oct. 30	30	29	
Trinidad: Port of Spain	Tune 13-Tuly 19	6	5 '	
Turkey in Asia:		~	٠,	
AdaliaBeirut	June 25-Oct. 31	8	5	To The county America
Beirut	June 25-July 4	1 1	•••••	In Harrett Aryk.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Tonamore				-
Uruguay: Montevideo	May 1-June 30		. 2	
Venezuela: Caracas	June 18-Nov. 11	15	5	
Zanzibar	July 14-Nov. 8	6		
	SMALI	LPOX.		
	1	ī		
Algeria:				
AlgiersBona	May 1-Sept. 30 June 1-Oct. 31		23 29	
Arabia: Aden Argentina:	Aug. 3-9	• • • • • • •	. 1	1
Buenos Aires	Mar. 1-Sept. 30 Apr. 1-July 31		81	
Rosario	Apr. 1-July 31	3	3	
Bohemia		1		Imported.
GaliciaSilesia.	June 6-July 31 June 20-Aug. 7			
Belgium:	l - i			
Antwerp Brazil:	July 18-24	4		•
Bahia	May 22-Nov. 19 Oct. 23-30	235	150	
Para Pernambuco	Apr 1_Oct 15			
Rio de Janeiro	May 17-Nov. 1	91	31	
Rio de Janeiro Santos São Paulo	May 10-16 May 10-July 18	. 	12	
Canada: British Columbia—				· 8
Vancouver	June 1-July 31	4		
Nova Scotia— Halifax	June 13-Aug. 7	5		
Ontario— Hamilton	Sept. 1–30	2		
Quebec— Montreal	June 17			2 cases additional at Grosse Isle
Quebec	į.	1		on s. s. Virginian. On s. s. Dominion from Liver-
;	1101.14	•		pool.
Ceylon: Colombo	Мау 23-29	2		•
Chile: Valparaiso	i i	2		Man 16 Nam 6 mannet
Santiago	Oct. 10-16 May 29-Aug. 21			May 16-Nov. 6, present. Present.
Amoy. Eng-Ta-Tau.	June 1-Oct. 11		33	May 9–15, present.
Eng-Ta-Tau. Hankow	July 1–31 Aug. 21	9 1		Apr. 26-June 12, present among
	-			natives.
Hongkong Kang Thau	May 2-June 26 Apr. 1-June 30	16 7	12 1	
NewchwangShanghai	Aug. 1-14	2	1	Cont OF still present among no
Shanghai	May 10-Oct. 3	•••••	9	Sept. 25, still present among natives. Sept. 4, 1 case on s. s. Wilmington.
Tientsin	June 27-July 3	1	2	-
Egypt, generalAlexandria	Apr. 30-Oct. 7 June 1-Nov. 4	1,669 6	383 6	
Cairo	May 21-Nov. 11	22	20	
Suez Ecuador:	May 21-Nov. 4	47	5	
EnsenadaGuayaquil	Aug. 25 June 1-Aug. 10	3		Epidemic. In July, 4 cases and 1 death in
France:				vicinity.
Bordeaux	Sept. 4		1	
Marseille Nantes	June 1-Oct. 31 July 1-31	····i	8	
Paris	May 23-Nov. 27	44	4	
Toulon	July 25-31	30	1	
Gibraltar	Aug. 8-Oct. 24	4		
Cardiff	July 6	1		
LiverpoolLondon	July 6. June 21–26. Oct. 3–Nov. 27	2		Case, June 22, from s. s. Canada.
	~~	0 1	••••••	

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Athens	Sept. 19-Nov. 6	1	. 5	
BudapestIndia:	Sept. 26-Oct. 9	. 2	1	
BombayCalcutta	May 26-Nov. 23 May 16-Nov. 6			
Madras	May 22-Oct. 29		. 25	
RangoonIndo-China:	May 12-Oct. 23		35	
Saigon	May 9-Oct. 23	23 543	22	
Italy, general	June 1-Oct. 15	21		
NaplesOttiana	May 31-Nov. 28 June 23	193	73	
RomeTurin	Mar. 7-13 Oct. 22-28	. 1	1	1
Japan:				
Formosa	June 13–19 June 6			From s. s. Selja.
Osaka	Jan. 1-May 31	. 3		- 1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-
Yokohama Java:	June 1-7	İ		
Batavia	May 6-Nov. 6	33	1	
Valetta	Sept. 11-18	. 3		
Mauritius: Port Louis	Apr. 1-30	. 1	1	
Mexico				Oct. 31, present at Orizaba, Puebla, and along the lines of
A	0.4.40.05			railroad.
Acapulco	June 21-Dec. 4	1	5	
ChihuahuaGuadalajara	Aug. 16-Nov. 29	2	2 4	
Medellin	Oct. 31	1		Oct. 24, present in vicinity.
Mexico Monterey	June 14-Nov 28		95 32	
SoledadVeracruz	Oct. 24	3 29	9	Aug 12-Oct 2 7 cases imported
	June 1-Oct. 31	29	9	Aug. 12–Oct. 2, 7 cases imported from Medellin. Oct. 26, 1 case from Orizaba and 1 case on s. s. Montevideo.
Netherlands: Amsterdam Newfoundland:	Nov. 29-Dec. 4	1		From a vessel.
St. Johns	Sept. 4	3		
Norway, general Panama: Canal Zone—	Apr. 1-May 30	3		
Ancon	Mar. 1-31	1		At Culebra Island quarantine station; from a vessel.
Persia: Guilan, province	Oct. 4			Present.
Khorassan Kurdistan	June 1-30 June 1-30	•••••		Epidemic. Do.
Mazanderan	July 1-Sept. 30			Do.
Meshed-i-Sur	Sept. 30	•••••		Present in June; epidemic in vicinity.
Shiraz Recht	May 1-31	•••••	•••••	Present. Oct. 10, again present.
Turbat-i-Haidari	Oct. 2 May 1-31			Do.
Peru: Lima Mollendo	July 4-10 Aug. 28			In the lazaretto. Present.
Philippine Islands: Manila	May 9-Oct. 30	20	8	Fourth quarter, 1908, 28 cases and 8 deaths; first quarter,
				1909. 55 cases and 16 deaths; second quarter, 1909, 76 cases and 9 deaths.
Iloilo, province	July 1-Aug. 31 Nov. 1-30	237 27	142 10	
Potugal: Lisbon Russia:	May 30-Nov. 27	189		
Libau	May 6-Nov. 21	11 280	1 117	
MoscowOdessa	May 16-Nov. 13 May 30-Nov. 20	143	33	• • • • • • • • • • • • • • • • • • • •
RigaSt. Petersburg	June 6-Nov. 20 May 16-Nov. 20	91 515	137	May 1-Sept. 30, 39 deaths.
Warsaw	Apr. 25-Oct. 16		58	

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
liam:				
Bangkok	Apr. 25-June 28	2	1	
liberia:		1		
Vladivostok	May 15-Oct. 28	5	1	
pain:				
Almeria	June 1-Oct. 31	İ	17	
Barcelona			84	
Huelva			55	
Madrid				
Seville			2	
Tarragona			ī	1
Valencia		80	. 3	
Vigo		•	18	: f
traits Settlements:	223 20 000 101111			1
Penang	Aug. 15-21	1 .		
Singapore		,	3	1
witzerland:				
Argau, canton	June 20–26	1		i .
Fribourg, canton	Tune 13-10	î.		!
Geneva	May 30-June 26	â		
ripoli:	may bo valie zo	٠,	•••••	
Tripoli	May 23_Nov 13	216	30	
Tripoli	July 10	210	•	Present in interior.
Bagdad	May 0-Oct 0			Present
Bassorah	May 22-June 26			Do.
Hadjin				
Smyrna	Moy 7-Nov. 4	,	303	20.
lumber in Funne.				
Constantinople	May 21_Oct 21		11	
Consementable	may or-Oct. or		11	
ruguay: Montevideo	Apr. 1-Sept. 30		25	
WOTTNESS TO THE STATE OF THE ST	whi. i_pehi. 90	• • • • • • • ;	20	

MORTALITY.

Weekly mortality table, foreign and insular cities.

			la 1]	Deat	hs fro	om-	•			
Cities.	Week ended—	Estimated population.	Total deaths from causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen Do Aden Do Do Do Do Aguascalientes Do Aix la Chapelle Amsterdam Do Asuncion, Paraguay Do Do Do Do Do Bo Baracoa Barmen Baroelona Barreen Do Do Do Do Do Do Do Baracoa Barreen Do Do	Nov. 20 Dec. 6 Nov. 15 Nov. 22 Nov. 27 Dec. 4 Nov. 27 Dec. 4 Nov. 27 Dec. 4 Nov. 27 Oct. 2 Oct. 2 Oct. 2 Oct. 30 Nov. 6 Nov. 12 Nov. 12 Nov. 19 Nov. 19 Nov. 29 Nov. 6 Nov. 18	181, 918 43, 974 43, 974 43, 974 40, 000 160, 299 566, 665 566, 665 323, 921 75, 000 75, 000 75, 000 241, 058 265, 000 265, 000 265, 000 261, 000 2	46 17 15 17 28 22 62 143 66 95 15 19 108 108 108 129 4 280 45 37	1 3 15 24 4 6 6 15 10 15 6 4	1 4			3 15 23	1 2	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 3	19	2 6 1	

Weekly mortality table, foreign and insular cities—Continued.

	İ		1 8.II				I	Death	as fro	m				
Cities.	Week ended—	Estimated population.		Measles.	Whooping cough.									
Basel	Nov. 20	131,000 386,576	40 134	3 11	ļ		 .	ļ		• • • •	<u>.</u>		1	1
Belfast Do	Dec. 4	386,576	147	15								i		4
Belize Do	Dec. 2 Dec. 9	9,113	7 3								• • • •			
Bergen	Nov. 20	9,113 87,749	21	2								2	::::	• • • •
Berlin	Nov. 13	2, 109, 107	542	64				:		4	14	15	2	3
Birmingham	Nov. 27 Nov. 20	558, 336 558, 336	167 149			• • • •		;		2	7	3	i	6
Do	Dec. 4	558, 336	151							1	3	i		i
Bombay	Nov. 16	977,822	518	47 51	5 4	2		5			••••	• • • •		
Do Bradford	Nov. 23 Nov. 20	977,822 293,983	559 73	4	4	11		3		··i		3	• • • •	
Bremen	do	235,648	76	7							1	2		2
Do Bristol	Nov. 27 Nov. 20	235, 648 377, 642	45 83	6						1	••••	1	5	· · · ·
Do	Nov. 27	377,642	112	17						i			3	
Do	Dec. 4	377,642	109	6								2	3	
Brussels Budapest	Nov. 20 Nov. 13	704, 975 804, 200	193	14				• • • • •		2	1 5	1 5	3	1 5
Do	Nov. 20	804, 200								1	ĭ	3	6	2
Cairo	Nov. 11 Nov. 18	704,836	405 419	21 29		• • • •			3	7		23 21		-
Do Calcutta	Nov. 6	704,836 847,796	447	22	5	7		i			••••	21		
Do	Nov. 13	847,796	503	26	5	9								· · · ·
Cartagena, Colombia	Nov. 7 Nov. 14	30,000 30,000	6 12									··i·		
Do	Nov. 21	30,000	13											
Do	Nov. 28	30,000	11	2										
Ceiba Do	Nov. 26 Dec. 4	6,500 6,500	4 2	1			• • • •							
Chihuahua	Nov. 28	37,000	25	2										
Do	Nov. 29	37,000	27	3				2		1				2
Cienfuegos Do	Nov. 20 Nov. 27	37,000 37,000	16 17											-
Christiania	Nov. 20	236,000	62	11								3	i	· · · ·
Do	Nov. 27	236,000	68	8								4		2
Cognac	Nov. 20 Nov. 27	19,483 19,483	7 8	1					••••		• • • • •	• • • •		• • • •
Do	Dec. 4	19,483	6	1]							
Colon	Nov. 20 Nov. 27	16,000	9	• • • •										
Do Constantinople	Nov. 21	16,000 1,000,000	6 191	31						8				• • • •
Do	Dec. 5	1,000,000	215	35						1 .		4		
Copenhagen	Nov. 6 Nov. 20	450,000 450,000	109 122	13 14						·i	3		• • • • •	•••
Denia	do	12,431	4	2										
Dublin	Nov. 6	394, 525	145	26						1 .				1
Do	Nov. 13 Nov. 20	394, 525 394, 525	177 190	28 26				· · · · i		1	1	2		1 2
Do	Nov. 27	394, 525	172	23						1	1	1	2 .	
Do	Dec. 4	394, 525	180	29						1 .	••••	1 .	-	
Dundee	Nov. 27	169, 409 169, 409	50 49	4										•••
Do	Dec. 4	169, 409	64									1	1	3
Dresden	Nov. 20 Oct. 30	550, 100 60, 244	147 12	16			••••	• • • • ; •	••••			4 .		1
Do	Nov. 6	60, 244 60, 244	12											•••
East London	Oct. 2	49, 253	5				-	-	-				-	•••
Do	Oct. 9	49, 253 49, 253	3											• • •
Do	Oct. 23	49, 253	8	1	.	.	.							
Edinburgh	Nov. 20	355, 366	101	11		.	.						2 .	•••
Do Esenada	Dec. 4 Nov. 27	355, 366 1, 200	133	5		::::j:							1	3
Fiume	Nov. 20	50, 811	16	7				'-		-	.		••••	•••
Do	Nov. 27 do	50, 811 21, 208	29				-	••••	-		-		1 -	•••
lushing	Nov. 13	368, 800				.	-		!-	1-	!	i	2	• • •
rontera	Nov. 20	9,000	4 .					••••		-		.		•••
Do	Nov. 27	9,000	3 1.	'.	'.	' .	'.	'.	'-	'-	!	• • • ' •	!	

Weekly mortality table, foreign and insular cities—Continued.

			n sll				I	Deatl	ns fro	m				
Cities.	Week ended—	Estimated population.	Total deaths from . causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Georgetown Ghent Do Geneva Do Goneva Do Gibraltar Do Glasgow Do Gonecok Do Greenock Do Guadalajara Halifax Hamburg Do Hamilton Do Hawite Do Holyhead Do Do Co Holyhead Do Do Loo Co Leeds Do Leeds Do Liege Do Liverpool Do Liverpool Do London Do Londonderry Do Lubeck Do Lundon Do Lubeck Do Lundon Do Lubeck Do Lundon Do Lubeck Do Lubeck Do Lubeck Do Lubeck Do Lundon	Nov. 6 Nov. 20 Nov. 27 Nov. 30 Nov. 28 Nov. 26 Dec. 3 Dec. 10 Nov. 25 Dec. 4 Nov. 20 Nov. 27 Nov. 20 Nov. 27 Nov. 20 Nov. 27 Nov. 20 Nov. 27 Nov. 20 Nov. 27 Nov. 20 Nov. 27 Dec. 4 Nov. 20 Nov. 27 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 Nov. 21 Nov. 20 No	56, 000 164, 579 164, 579 121, 500 26, 830 26, 830 872, 021 872, 021 872, 021 72, 300 125, 000 40, 787 872, 252 872, 252 872, 252 20, 206 132, 430 132, 430 132, 430 131, 046 11, 046 275, 552 2	544 66 588 277 300 400 4166 547 155 52 249 9 6 6 5 52 225 56 33 10 10 2 2 2 4 4 899 32 133 1,884 49 445 49 243 331,1884 49 445 19 19 19 19 19 19 19 19 19 19 19 19 19	3 5 5 1 1 12 13 11 10 14 4 3 3 16 1 10 14 4 3 3 31 16 1 10 17 76 77 76 77 77 77 77 77 77 77 77 77 77	14				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	75 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34 44 45 40 2 3 3 15 3 15 22 10	100 98 8 8 22 22 2 1 1 1 1 1 1 1 1 1 1 1 1 1

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES— UNTABULATED.

Algeria—Algiers.—November 1 to 15. Estimated population, 155,000. Total number of deaths 149.

Australia—Newcastle.—Month of September, 1909. Estimated population, 48,017. Total number of deaths 48, including 3 from tuberculosis.

Sydney.—Month of September, 1909. Estimated population, 592,100. Total number of deaths 545, including diphtheria 3, scarlet fever 1, typhoid fever 4, and 52 from tuberculosis

Brazil—Pernambuco.—Two weeks ended October 15, 1909. Estimated population, 210,000. Total number of deaths 320, including measles 8, plague 7, smallpox 27, and 34 from tuberculosis.

Canada—Hamilton.—Month of November, 1909. Estimated population, 49,000. Total number of deaths 70, including diphtheria 1, measles 1, and 1 from typhoid fever.

EGYPT—Alexandria.—Month of October, 1909. Estimated population, 420,000. Total number of deaths 926, including diphtheria 13, plague 2, scarlet fever 1, smallpox 2, typhoid fever 20, typhus fever 1, and 86 from tuberculosis.

GREAT BRITAIN.—Week ended November 20.

England and Wales.—The deaths registered in 76 great towns correspond to an annual rate of 14.6 per 1,000 of the population, which is estimated at 16.445.281.

Ireland.—The deaths registered in 21 principal town districts having an aggregate estimated population of 1,142,830, correspond to an annual rate of 20.0 per thousand of the population. The lowest rate was recorded at Galway, viz, 3.9, and the highest at Wexford, viz, 32.7 per 1,000.

Scotland.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,865,571, show a total of 708, including diphtheria 9, measles 36, scarlet fever 9, and whooping cough 12. The highest rate was recorded at Glasgow, viz, 24.9, and the lowest at Leith, viz, 11.0.

ITALY—Milan.—Month of November, 1909. Estimated population, 900,000. Total number of deaths 175, including diphtheria 2, scarlet fever 2, typhoid fever 26, and 122 from tuberculosis.

Jamaica—Kingston.—Month of November, 1909. Estimated population, 48,500. Total number of deaths 120, including 11 from phthisis pulmonalis.

NEW ZEALAND—Auckland.—Month of September, 1909. Estimated population, 42,748. Total number of deaths 52, including typhoid fever 1, and 8 from tuberculosis.

Christchurch.—Month of September, 1909. Estimated population, 76,709. Total number of deaths 48, including 1 from tuberculosis.

Dunedin.—Month of September, 1909. Estimated population, 61,279. Total number of deaths 46, including 2 from tuberculosis.

Wellington.—Month of September, 1909. Estimated population, 73,667. Total number of deaths 70, including 9 from tuberculosis.

PORTUGUESE EAST AFRICA—Lourenço Marquez.—Month of October, 1909. Estimated population 10,000. Total number of deaths 27, including 6 from tuberculosis.

SIAM—Bangkok.—Month of October, 1909. Estimated population, 600,000. Total number of deaths not reported. Three deaths from cholera and 7 from plague reported.

SIERRA LEONE.—Month of October, 1909. Estimated population, 40,000. Total number of deaths 68. No deaths from contagious diseases.

The following cases of and deaths from smallpox, yellow fever, cholera, and plague have been reported to the Surgeon-General, Public Health and Marine-Hospital Service, during the week ended December 24, 1909:

SMALLPOX-UNITED STATES.

		<u> </u>	1	1
Place.	Date.	Cases.	Deaths.	Remarks
ansas:				
Coffeyville				
Baltimore orth Carolina (12 counties)	Sept. 1-30	60		
Charlottehio:	Dec. 4-11	5		
Dayton	do	2		
Chattanooga Dowelltown		3 1		
	SMALLPOX—INSULA	R.		
hilippine Islands: Manila	Oct. 23-30.	1		
	SMALLPOX—FOREIG	N.	<u> </u>	<u> </u>
				
razil: Bahia	Nov. 5–19.	48	38	
gypt: Alexandria			2	
Cairo		2	2	
rance: Paris	Nov. 13-27	. 3	1	
ermany: Munich	Nov. 7-13	. 1		
reece: Athens	Oct. 30-Nov. 6		3	
dia: Bombay			8	
Calcutta	Oct. 30-Nov. 6		1	
aly (general)	do	. 35 . 15	2	
va:	Oct. 30-Nov. 6	. 2		
Batavia				
Batavia	Nov. 27-Dec. 4		1	
Batavia axico: Aguascalientes	Nov. 27-Dec. 4 Nov. 22-29		1 2	
Bataviaexico: Aguascalientes	Nov. 22-29			On a vessel.

SMALLPOX-FOREIGN-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
		-		
Russia:	0.4.0.00	1 0		
Moscow		8	1	
0.1	Nov. 6-13		1	
Odessa	Oct. 9-16	7	4	
7.	Nov. 13-20	11	3	
Riga	Oct. 16-23	2		
Ct. D. t I	Nov. 13-20	8		
St. Petersburg		52	16	
Spain:				
Almeria	Oct. 1-31		3	
Barcelona	Nov. 22-29		1	
Andrew A			·	
	YELLOW FEVER.			
Brazil:		i		
Manaos	Nov. 13–20	:	1	
Para	Nov 20_27	6	4	
Venezuela:	1407. 40-21	0	*	
Caracas	Nov. 13-20	1		
\ara\ara\ara\ara\ara\ara\ara\ara\ara\ar	107. 15-20	•		
	CHOLERA—INSULAR			
		1		
Philippine Islands:		1		
Manila	Oct. 23-30	24	20	
Provinces	do	157	116	
		.1	<u> </u>	
	CHOLERA—FOREIGN	ī .		
China:				
Amoy	Oot 22-30		30	
india:	006. 20-30		30	
		1	13	
Domboss				
Bombay	Nov. 9-23			
Calcutta	Oct. 30-Nov. 13		16	
CalcuttaRangoon	Oct. 30-Nov. 13			
Calcutta Rangoon	Oct. 30-Nov. 13 Oct. 30-Nov. 6		16 7	
Calcuttă Rangoon	Oct. 30-Nov. 13 Oct. 30-Nov. 6		16 7 76	
Calcutta	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18		16 7	
CalcuttaRangoon	Oct. 30-Nov. 13 Oct. 30-Nov. 6. Oct. 11-18. Nov. 17.	. 187	16 7 76 1	
Calcutta	Oct. 30-Nov. 13. Oct. 30-Nov. 6. Oct. 11-18. Nov. 17.	. 187	16 7 76 1	
Calcuttă. Rangoon. Japan: Kadono district. Moji. Russia: Moscow. Riga.	Oct. 30-Nov. 13. Oct. 30-Nov. 6. Oct. 11-18. Nov. 17.	. 187	16 7 76 1	
Calcutta	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23	187 3 4	76 1 2	
Calcuttă Rangoon Japan: Kadono district Moji Russia: Moscow Riga Slam: Bangkok.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23	187 3 4	16 7 76 1	
Calcutta. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23	187 3 4	76 1 2	
Calcuttá. Rangoon. [apan: Kadono district. Moji. Russia: Moscow. Riga. Siam: Bangkok.	Oct. 30-Nov. 13. Oct. 30-Nov. 6. Oct. 11-18. Nov. 17. Oct. 9-23. Oct. 16-23. Oct. 1-31. Oct. 21-28.	. 187 3 4 3	76 1 2	
Calcutta. Rangoon. [apan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23	. 187 3 4 3	76 1 2	
Calcutta. Rangoon Japan: Kadono district Moji Russia: Moscow Riga Siam: Bangkok Siberia:	Oct. 30-Nov. 13. Oct. 30-Nov. 6. Oct. 11-18. Nov. 17. Oct. 9-23. Oct. 16-23. Oct. 1-31. Oct. 21-28.	. 187 3 4 3	76 1 2	
Calcutta. Rangoon Japan: Kadono district Moji Russia: Moscow Riga Siam: Bangkok Siberia:	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4	. 187 3 4 3	76 1 2	
Calcuttă. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok Siberia: Vladivostok	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE.	. 187 . 3 . 4 . 3	16 7 76 1 2	
Calcutta. Rangoon. Japan: Kadono district. Moji. Russia: Moscow Riga Siam: Bangkok Siberia: Vladivostok. Brazil: Bahia	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4	. 187 . 3 . 4 . 3	76 1 2	
Calcuttá. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Slam: Bangkok Siberia: Vladivostok	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE. Nov. 5-19	. 187 . 3 . 4 . 3	16 7 76 1 2	
Calcutta. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok Siberia: Vladivostok Brazil: Bahia Lhina: Amoy	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-20	. 187 3 4 3 3 7 4	16 7 76 1 2	
Calcuttá Rangoon Japan: Kadono district Moji Russia: Moscow Riga Bangkok. Siberia: Vladivostok Brazil: Bahia Lina: Amoy Anoy Bangdos	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6	. 187 3 4 3 7 4 7	16 7 76 1 2	
Calcuttá. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Slam: Bangkok Biberia: Vladivostok Brazil: Bahia China: Amoy ndia (general) Bombay.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 21-28 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE. Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6 Nov. 9-23	. 187 . 3 4 . 3 . 7 4	16 7 76 1 2	
Calcutta. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok Siberia: Vladivostok Brazil: Bahia. hina: Amoy ndia (general) Bombay Calcutta.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13	. 187 3 4 3 3 7 4	16 7 76 1 2 3 4 4 4	
Calcutta. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Siam: Bangkok Siberia: Vladivostok Brazil: Bahia. hina: Amoy ndia (general) Bombay Calcutta.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13	. 187 3 4 3 3 7 4	3 4 4 4 4 4 4 4 4 9 9	
Calcuttă. Rangoon Japan: Kadono district. Moji. Russia: Moscow Riga. Slam: Bangkok Siberia: Vladivostok. Brazil: Bahia. hina: Amoy ndia (general) Bombay. Calcutta. Rangoon.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13	. 187 3 4 3 3 7 4	16 7 76 1 2 3 4 4 4 4 4 4 9 10	
Calcutta. Rangoon Japan: Kadono district. Moji Russia: Moscow Riga. Siam: Bangkok Siberia: Vladivostok Brazil: Bahia China: Amoy ndia (general) Bombay Calcutta Rangoon	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 23-Nov. 4 PLAGUE Nov. 5-19 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13 Oct. 30-Nov. 6	. 187 3 4 3 7 4 7 5,725	76 76 1 2 3 4 4 4 4 4 4 79 9 10 3	
Calcuttá Rangoon Japan: Kadono district Moji Russia: Moscow Riga Biam: Bangkok Siberia: Vladivostok Bahia Thina: Amoy ndia (general) Bombay. Calcutta Rangoon Jam: Bangkok Bangkok	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 28-Nov. 4 PLAGUE Nov. 5-19 Oct. 23-30 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13	. 187 3 4 3 7 4 7 5,725	16 7 76 1 2 3 4 4 4 4 4 4 9 10	
Calcutta. Rangoon [apan: Kadono district. Moji Russia: Moscow Riga. Siam: Bangkok. Biberia: Vladivostok. Bahia. China: Amoy ndia (general) Bombay Calcutta Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon. Rangoon.	Oct. 30-Nov. 13 Oct. 30-Nov. 6 Oct. 11-18 Nov. 17 Oct. 9-23 Oct. 16-23 Oct. 1-31 Oct. 21-28 Oct. 23-Nov. 4 PLAGUE Nov. 5-19 Oct. 30-Nov. 6 Nov. 9-23 Oct. 30-Nov. 13 Oct. 30-Nov. 6	. 187 . 3 4 . 3 . 7 4	76 76 1 2 3 4 4 4 4 4 4 79 9 10 3	

By authority of the Secretary of the Treasury:

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