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# SMALLPOX AND VACCINATION IN THE PHILIPPINE ISLANDS.

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At probably no time in the world's history has the efficiency of vaccination as a preventive for smallpox been so conclusively and effectively demonstrated as in the Philippine Islands since American occupation.

The evidence of its value is incontestible.

During Spanish times it was necessary each year during the dry season to erect in Manila a large temporary hospital to which the many hundreds of victims of smallpox could be taken. The great majority of them died.

During the past five years not one person has died in Manila from smallpox who had been successfully vaccinated during the five previous years; nor has anyone died of smallpox in Manila since

June, 1909.

Since 1907, when the systematic vaccination was completed of the six Provinces near Manila, which have an approximate population of 1,000,000, and which from time immemorial had an annual average mortality from smallpox of at least 6,000 persons, not one person has died of smallpox who had been successfully vaccinated, and only a few scattering cases have occurred. During the past two years some deaths have been reported, but careful investigation shows that not one death took place in a vaccinated person.

In May, 1904, the U. S. Army transport *Liscum* left Manila with 26 cabin passengers, 170 steerage passengers, 16 officers, and 80 members of crew, or a total of 292 souls on board. During the first week smallpox broke out aboard the vessel in an unvaccinated child in the steerage. An examination of the personnel on board showed that 3 members had never been vaccinated. Within a period of two weeks these unvaccinated persons were stricken with the disease and

not one of the 289 remaining persons contracted it.

During October, 1910, information was received that in the remote town of Baler, with a population of 2,417, situated on the east coast of Luzon, smallpox had broken out among the unvaccinated children. There were 100 cases and 27 people had already died. An

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average of 35 new cases was occurring daily. Through the efforts of the Hon. Manuel Quezon, Delegate from the Philippine Islands to the Congress of the United States, the people were induced to submit to vaccination. The number of new infections decreased rapidly, and 14 days after the last person in that town had been vaccinated, about October 20, no further cases of smallpox occurred.

An accurate estimate of the prevalence of smallpox in the Philippine Islands under the Spanish régime is not available, but judging from the partial reports received from the provinces during the first few years of American occupation the death rate must have been

appallingly heavy.

The policy of persistent systematic vaccination, inaugurated 12 years ago by the American sanitary authorities, has been attended

with excellent results.

In the larger cities and easily accessible localities the disease has become mild, relatively infrequent, and death is rare. Severe outbreaks of variola are occasionally reported in some of the remote communities. In these instances, however, it has invariably been found that vaccination has been incomplete. Either it has been impossible to place a potent virus in the field for vaccination, or the people, through ignorance, superstition, or willful neglect, have failed to avail themselves of the proven prophylactic advantages of the measure.

In order that the efficiency of protective inoculation may be illustrated, a few of the many successes which have attended the efforts of the bureau of health for the Philippines are here cited.

Through an unfortunate combination of circumstances vaccination was suspended during a period of nine years in Bagac, an isolated barrio of 2,000 inhabitants in the Province of Bataan. Being situated on the monsoon-swept China seacoast, the town is accessible by sea only during short seasons. To reach the town overland requires strenuous travel over an exceedingly wretched trail. 1896 to 1901, when the country was in the throes of war and rebellion, it was impracticable to carry on the work of vaccination, and Bagac was necessarily neglected. Later protective inoculation was still further delayed by the inability of the provincial physician, through physical infirmity, to reach the town. In 1905 there was a widespread epidemic of smallpox in Bagac. The American physician who investigated the outbreak found that there were one or more cases in every house. Especially noteworthy was the fact that a few persons who had been vaccinated during the Spanish régime remained free from the disease. Within two weeks after the completion of thorough vaccination new cases ceased to appear and the town remained free from variola thereafter.

That there is a decided difference between the results obtained by desultory vaccination and those obtained from the institution of thorough measures became apparent in the last epidemic in the city of Iloilo. In July, 1909, there occurred 21 deaths from smallpox in that city. As the disease had always existed to a considerable degree, it was difficult to persuade the local sanitary officials to bestir themselves, but after discussing the subject they consented to undertake a complete campaign of vaccination. In August there were 12 deaths, in September 8, and in October 1. Since that time but one mild case

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of varioloid has been recorded in a city which previously had rarely, if ever, been free from variola.

In Pampanga Province there were 278 deaths from smallpox in 1904 and 168 in 1905. After vaccination was begun with some degree of regularity the decrease in the ravages of the disease became manifest: 1906, 35 deaths; 1907, 14 deaths; later, to date, no deaths.

During the systematic vaccination of the Province of Albay, with a population of 234,000, bitter opposition was encountered in the towns of Tabaco and Malinao. Many people remained away from the towns until after the departure of the vaccinators. The following year 40 deaths from variola occurred in these two localities, the only cases in the entire Province. The authorities suppressed the disease by enforced vaccination of those who had previously escaped and since then there has been no smallpox in the Province.

In January, 1910, the district health officer of Ilocos Sur was summoned to the town of San Esteban to aid in combating an epidemic of smallpox. The work of thorough vaccination began on January 26, after the great majority of cases had developed. The beneficial results were immediately apparent as shown by the following enu-

meration of cases:

1910	Cases.	Death	ıs.
January February March April	126 75 10 1	•	29 22 6 1

Subsequently there were no cases. Of the 58 persons who succumbed to smallpox, not one had a vaccination scar, nor did any of the 154 survivors have scars denoting recent successful vaccination. The instance is particularly noteworthy because attention was directed solely to vaccination. The epidemic occurred in the dry season, climatic and sanitary conditions remaining the same.

That portion of the Province of La Union lying north of the town of San Juan was systematically vaccinated in 1905, with the resulting disappearance of smallpox. In the unvaccinated southern part of the province there were yearly outbreaks even while the northern portion remained free from the disease. Following systematic vaccination, variola was also eradicated from the southern portion, a phenomenon commented upon by the impressionable people with amazement.

After a strenuous campaign of vaccination, as a result of which smallpox was practically eradicated from the Province of Ambos Camarines, the authorities sought to eliminate every possible opportunity for the reappearance of the disease. It was decided that the principal danger was incurred by permitting the 15,000 children who were born annually to remain unprotected. Consequently, four experienced men were employed to make continuous trips through the province, arriving at each locality at least twice a year. These men obtain the birth records and do not leave a community until every infant has been successfully vaccinated.

Attention is also directed to transients. Every newcomer must produce a certificate of recent successful vaccination or submit to

the operation. That the efforts of the officials in the Ambos Camarines have been wisely directed is evinced in the following statistics:

	aths.
Third quarter, 1906	 208
Fourth quarter, 1906	 80
First quarter 1907	 8
Later to date, no deaths.	 •

Prior to 1905, between 3,000 and 4,000 deaths from smallpox were reported each year in the Province of Cebu. In 1905 and 1906 the systematic vaccination of the 650,000 inhabitants was undertaken. In 1907 there were only 94 deaths and in 1908, 84 deaths from the disease.

As smallpox was apparently on the wane, vaccination was suspended for two years. In the meanwhile there was a decided increase in the number of unprotected people, due to births and immigration from neighboring islands. During 1909 there was a recrudescence of variola, in which 736 persons lost their lives. Investigation proved that over 90 per cent of all the cases were among unvaccinated children, that no cases were reported among persons recently successfully vaccinated, and that the small number of adults attacked were nearly all unvaccinated. The Province has again been thoroughly vaccinated.

In July, 1908, Pangasinan Province was swept by an epidemic of cholera and for a time vaccination was entirely suspended, the vaccinators being made sanitary inspectors and employed in combat-

ing the new scourge.

In October, 1908, the cholera having subsided and a virus having been obtained which gave as high as 90 per cent of successes, vaccination was renewed with vigor. The province has been singularly free from smallpox since the completion of systematic vaccination.

	Cases.	Deaths.
1908.		
First trimester	4,080	2, 282
Second trimester. Third trimester.	2, 136 501	2, 282 1, 350 326
Fourth trimester.	218	132
1909.		
First trimester.	267	123
Second trimester.	254	99
Third trimester.  Fourth trimester.	108	48
	• }	· ·

The problem of eradicating smallpox from the Philippine Islands is one involving the thorough and repeated vaccination of all the people. Until the local sanitary officials understand that infants must be vaccinated shortly after birth, that unprotected transients must submit to the operation, and that all the people must be periodically revaccinated, smallpox will still continue to prevail.

Already notable progress along these lines is being made by the

employment of permanent vaccinators.

As improved methods for the preservation of virus are discovered, as facilities for travel are increased, and the people are educated to the true value of protective inoculation, it is not too much to expect that smallpox will be reduced to a negligible minimum.

## UNITED STATES.

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

## BERIBERI IN SOUTH CAROLINA.

Acting Asst. Surg. Sams, at Charleston, S. C., reports March 1: Three cases of beriberi have occurred at Ten Mile Hill, a few miles distant from Charleston among the same colored convicts and in the same stockade in which the epidemic occurred which was reported March 27, 1910. These cases are of a similar character to the previous ones, with anasarca, loss of reflexes, paresthesia, tachycardia, dilated heart, etc. An interesting accompanying symptom is a roughness and pigmentation of the skin of elbows and forearms, such as is present in cases of pellagra. In one instance this lesion was noticed prior to the beriberic symptoms. There are no pellagrins among the convicts.

## PLAGUE-PREVENTION WORK.

### INFECTED GROUND SQUIRREL.

During the week ended February 18, 1911, the finding of 1 plague-infected ground squirrel was reported. The squirrel was found February 1, in Alameda County, Cal., at S. Jones's ranch, 5 miles northeast of Haywards.

### DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities in California on San Francisco Bay, 615 acres of land in Alameda County were covered with poison during the week ended February 18, 1911.

#### Record of Plague Infection.

California: Cities—   San Francisco.   Jan. 30,1908.   Oct. 23,1908.   None.   398 rats.					
Cities—San Francisco.   Jan. 30, 1908   Oct. 23, 1908   None   398 rats.	Places.	of human	Date of last case	of squirrel	of rodents found infected since
Oakland         Oct. 28, 1909.         Dec. 1, 1908.         do.         126 rats.           Berkeley.         Aug. 28, 1907.         None recorded.         Aug. 21, 1908.         None.           Los Angeles.         Aug. 11, 1908.         None.         Aug. 21, 1908.         1 squirrel.           Counties—		!			
Oakland         Oct. 26, 1909.         Dec. 1, 1908.         do.         126 rats.           Berkeley.         Aug. 28, 1907.         None recorded.         do.         None.           Los Angeles.         Aug. 11, 1908.         None.         Aug. 21, 1908.         1 squirrel.           Counties—		Jan. 30.1908	Oct. 23.1908	None	398 rats.
Berkeley	Oakland			do	126 rats
Counties — Alameda (exclusive of the city of Oakland).   Sept. 26, 1909   17, 1909.   Wood rat, Oct. 17, 1909.   Sept. 10, 1910   24 squirrels. 1 wood rat.   Sept. 10, 1910   24 squirrels. 1 wood rat.   Sept. 10, 1910   24 squirrels. 1 wood rat.   Sept. 10, 1910   24 squirrels.   Sept. 10, 1910   24 squirrels.   Sept. 10, 1910   24 squirrels.   Sept. 10, 1910   25 squirrels.   Sept. 10, 1910	Berkeley			do	None.
Counties— Alameda (exclusive of the city of Oakland). Contra Costa. July 21, 1908. Mone Contra Costa. July 21, 1908. Mone Contra Costa. Monterey. do. do. San Benito. San Benito. San Joaquin. None recorded. San Luis Obispo. San Luis Obispo. Santa Clara. Aug. 23, 1910. Santa Cruz. None recorded. Mone Record	Los Angeles			Aug. 21, 1908	1 squirrel.
the city of Oakland).   Sept. 20, 1909   17, 1909.	Counties—	g,			
Contra Costa.         July 21, 1908.         None.         Sept. 10, 1910.         247 squirrels.           Merced.         None recorded.         do.         June 6, 1910.         2 squirrels.           Monterey.         do.         do.         do.         4 squirrels.           San Benito.         June 5, 1910.         do.         July 11, 1910.         20 squirrels.           San Josquin.         None recorded.         do.         Jan. 9, 1911.         11 squirrels.           San Luis Obispo.         do.         do.         Jan. 29, 1910.         1 squirrels.           Santa Clava.         Aug. 23, 1910.         do.         Oct. 5, 1910.         23 squirrels.           Santa Cruz.         None recorded.         do.         May 17, 1910.         3 squirrels.           Stanislaus.         do.         do.         May 21, 1910.         5 squirrels.	Alameda (exclusive of the city of Oakland)	Sept. 26, 1909		}Feb. 1, 1911	
Merced	Contra Costa	July 21, 1908		Sent 10 1910	
Monterey	Merced	None recorded			
San Benito.         June 5, 1910.         do.         July 11, 1910.         20 squirrels.           San Joaquin.         None recorded.         do.         Jan. 9, 1911.         11 squirrels.           San Luis Obispo.         do.         do.         Jan. 29, 1910.         1 squirrels.           Santa Clara.         Aug. 23, 1910.         do.         Oct. 5, 1910.         23 squirrels.           Santa Cruz.         None recorded.         do.         May 17, 1910.         3 squirrels.           Stanislaus.         do.         do.         May 21, 1910.         5 squirrels.           Washington:         40.         May 21, 1910.         5 squirrels.			do		
San Joaquin	San Benito	June 5 1910	do	Inly 11 1010	
San Luis Obispo       do       Jan. 29, 1910       1 squirrel.         Santa Clara       Aug. 23, 1910       do       Oct. 5, 1910       23 squirrels.         Santa Cruz       None recorded       do       May 17, 1910       3 squirrels.         Stanislaus       do       do       May 21, 1910       5 squirrels.         Washington:       4       4       4       4       4	San Joaquin	None recorded	do	Ian 9 1911	
Santa Clara       Aug. 23, 1910       do       Oct. 5, 1910       23 squirrels.         Santa Cruz       None recorded       do       May 17, 1910       3 squirrels.         Stanislaus       do       do       May 21, 1910       5 squirrels.         Washington:       5 squirrels       5 squirrels	San Luis Obispo	do	do	Ian 29 1910	
Santa Cruz None recorded do May 17, 1910 3 squirrels. Stanislaus do do May 21, 1910 5 squirrels. Washington:	Santa Clara	Aug 23 1910	do	Oct 5 1910	
Stanislausdodo					
Washington:					
	Washington:			, -1,1010	o squaros.
		Oct. 30, 1907	Feb. 8, 1910	None	22 rats.

## Rats Collected and Examined for Plague Infection.

Places.	Week ended-	Found dead.	Total collected.	Exam- ined.	Found infected.
California: Cities— Berkeley.	Feb. 18		1 130	78	
OaklandSan Francisco		30 78	<sup>2</sup> 598 <sup>3</sup> 1,594	498 1,141	
Counties— San Joaquin Washington;	do		4 2	2	
Cities— Seattle	do		894	734	
Total		108	3,218	2,453	

### Examination of Rats from Steamship China.

During the week ended February 11, 1911, there were examined at the Federal laboratory at San Francisco 25 rats received from the steamship *China*. No plague-infected rats were found.

### Squirrels Collected and Examined for Plague Infection.

Places.	Week ended—	Trapped and shot.	Found dead.	Exam- ined.	Found infected
California:					
Counties—		l			
Alameda	Feb. 18	385		385	i
Fresno		91		91	
Imperial	do	39		36	1
Kern	do	15		15	
Los Angeles	do	298		292	1
Madera	do	46		46	1
Mariposa	do	192		192	
Merced		82		82	
Monterey		707	1	703	
San Diego		73		69	
San Joaquin		356		353	
San Luis Obispo.		256	2	258	
Santa Clara		208	- 1	201	
Stanislaus		249	1	247	
Yolo		9		9	
Total		3,006	4	2,970	

#### Other Animals Collected and Examined.

Places.	Week ended—	Animals collected.	Exam- ined.	Found infected.
California: Counties— Alameda Fresno Imperial Los Angeles. Mariposa. Merced San Diego. San Joaquin. San Luis Obispo Santa Clara.  Stanislaus Yolo.	do	2 gophers	2 6 73 3 4 7 1 23 7 19	
Total			169	

Identified. Mus norvegicus 78, Mus musculus 52.
 Identified, Mus norvegicus 515, Mus rattus 2, Mus musculus 80, Mus alexandrinus 1.
 Identified, Mus norvegicus 914, Mus rattus 163, Mus musculus 364, Mus alexandrinus 153.
 Identified, Mus norvegicus 2.

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## SMALLPOX IN THE UNITED STATES.

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

Reports Received During Week Ended March 10, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
California:				
Counties—	7 1.01	١.	1	
Humboldt	. Jan. 1-31	1		•
Mariposa		1		•
Riverside		1		
San Bernardino		3		G
San Diego	. Jan. 1-31		. 1	Case reported in December.
San Francisco	. Jna. 1-31	6		
Ventura	. Jan. 1-31	9		•
Total for State	.	21	1	
m 1 d	1			1
Florida:	1	l	ļ	1
Counties—	F-1- 10 0F		ì	1
Brevard		5		4
Duval	Feb. 19-25	2		1
Escambia		8		1
Hillsboro		3		1
Jackson		9		1
Lee		1		1
Polk		10		
Santa Rosa		32		1
Walton	Feb. 19–25	7		
Total for State		77		
Kentucky:				
Paducah	Feb. 19–25	1		
Louisiana: New Orleans	Feb. 19-25	3		
Missouri:	Feb. 19–25	5		
New Jersey: Counties—				
MiddlesexSalem	Jan. 1-31 Jan. 1-31	1 25		
Total for State				
New Jersey:	į l			
Counties-	7.100	_		
Salem	Feb. 1-28	2	• • • • • • • •	
North Dakota:				
Counties—	1			
Billings	Jan. 1-31	11		
McIntosh	Jan. 1-31	11	•••••	
Stutsman	Jan. 1-31	8		
ошынан	Jan. 1-31	•	•••••	
Total for State		20		Not previously reported.
Pennsylvania	Dec. 1-31	2		
_				
Tennessee: Knoxville		4		
	Feb. 19-25			
South Carolina:	_ = ==			
Charleston County—				
Seven Mile	Mar. 1	9	1	

## SMALLPOX IN THE UNITED STATES-Continued.

## SMALLPOX AT PORT ANGELES, WASH.

Acting Asst. Surg. Lewis reports, February 23:
Smallpox in a mild form is prevalent at Port Angeles. To date
16 cases have been reported. There have been no new cases since February 13.

### Reports Received from December 31, 1910, to March 8, 1911.

[For reports received from June 25, 1910, to Dec. 30, 1910, see Public Health Reports for Dec. 30, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.)

Places.	Date.	Cases.	Deaths.	Remarks.
*Alabama: Montgomery	Dec. 11-Feb. 14	9		
California:				=
Counties— Alameda	Dec. 1-31	3		
Imperial	Dec. 1-31	ĭ		
Humboldt	Dec. 1-31	1		
Kern Los Angeles		1		
San Diego	Dec. 1-31	15		]
San Francisco San Joaquin	Dec. 1-31	4 2		
San Joaquin	Dec. 1-31			
Total for State		28		
Colorado:			1	
Counties— Adams	Dec. 1-Jan. 31	6		į
Arapahoe	Dec. 1-Jan. 31	15		
Archuleta	Dec. 1-Jan. 31	20		
Adams. Arapahoe. Archuleta. Boulder. Conejos. Costilla	Dec. 1-Jan. 31	21 2		
Costilla	Jan. 1-31	5		
Denver	Dec 1-jan. ol	102		
EagleEl Paso	Jan. 1-31	1		
Fremont	Dec. 1-Jan. 31	8		
Fremont	Jan. 1-31	4		
Gilpin	Jan. 1-31 Dec. 1-31	1 2		
Huerfano	Dec. 1-31	13		
Jefferson	Dec. 1-31	5		
Kit Carson La Plata		1 14		
Larimer	Jan. 1-31	17		
Las Animas		37 2		
Mineral Montezuma	Dec. 1-31	í		
Montrose	Jan. 1-31	2		
Morgan		33 3	1	
Rio Grande	Jan. 1-31	9		
Saguache	Dec 1-31	3		
Teller	Jan. 1-31	1		
Total for State		379	1	•
Connecticut	Dec. 1-Jan. 31			No cases;
District of Columbia	Jan. 15-21	2		
Florida: Counties—				
Alachua		41	1	
Baker	Jan. 8-14	1 4		
Bradford	Jan. 29-Feb. 4			•
Citrus	Jan. 8-14	1	• • • • • • •	•
Dade	Jec. 25-reb. 18 Jan. 1-Feb. 18	91	••••••	•
Escambia	Jan. 1-Feb. 18	29		
Franklin	Jan. 8-21	4 61		
GadsdenHillsboro	Dec. 25-Feb. 18			
Jackson	Dec. 25-Feb. 18	56 .		
JeffersonLafavette	Feb. 5-11	2		
Latayette	Jan. 10-Feb. 4	η.	••••••	•

Place.	Date.	Cases.	Deaths.	Remarks.
Florida—Continued.				
Counties—Continued.		l	i	
Lake	Jan. 22-28	6	1	
Lee	Jan. 8-Feb. 18	13		<u>-</u>
Leon	Dec. 18–Feb. 18 Jan. 29–Feb. 4	71	1	
Levy	Jan. 29-Feb. 4	2		-
Madison Nassau	Dec. 18-Jan. 21 Jan. 16-21	19 2		•
Orange	Jan. 16-21	ĺí		•
Osceola.	Dec. 18-24	i		•
Polk	Dec. 18-Jan. 21	5		
Putnam	Feb. 12-18	1		
St. John	Jan. 22-Feb. 11	2		
Santa Rosa	Jan. 8-Feb. 4	2		•
Suwanee	Jan. 16-21 Jan. 8-Feb. 4	1 140		
Volusia	Jan. 22-Feb. 11	120		1
Walton	Dec. 25-31	ĩ		
Washington	Jan. 8-14	4		
-			ļ	-
Total for State		661	3	<u> </u>
Illinois: Counties—				
Bond	Jan. 1-31	1	1	J
Coles	Jan. 1-31	5		1
Cook, exclusive of	Jan. 1-31	2	1	.[
Chicago.			1	
Chicago	Jan. 1-31	14		
Kane	Jan. 1-31	ļ		•
McLean	Jan. 1-31 Jan. 1-31	1	l	1
Peoria	Jan. 1-31	5		1
Saline	Jan. 1-31	3		
Stevenson	Jan. 1-31 Jan. 1-31	3		1
Union	Jan. 1-31	7		1
Vermilion	Jan. 1-31	1		
Williamson	Jan. 1-31	1		
Total for State		48		
Indiana:				:  
Counties—				
	Jan. 1-31	4		į
	Jan. 1-31	2		
Dekalb Elkhart	Dec. 1-31	5 5		
Howard	Dec. 1-31	i		
Jennings.	Jan. 1-31	6		
Knox.	Dec. 1-Jan. 31	š		
Madison	Dec. 1-Jan. 31	132		
Marion	Jan. 1–31	1		
Montgomery	Dec. 1-Jan. 31			
	Jan. 1-31	1		
	Jan. 1-31	$\frac{1}{2}$	• • • • • • • • • •	
	Jan. 1-31	19	· · · · · · · · · · · · · · · · · · ·	
Wayne	Jan. 1-31		·	
	-			
Total for State		200		
owa:				
Counties— Benton	Jan. 1-31	1		
	Dec. 1-31	i		
	Jan. 1-31	2		
	Jan. 1-31	3		
Jefferson			1	Year 1910, in delinquent repor
Tahanan I.	7 1 01			received after Jan. 1, 1911.
	Jan. 1-31	1		
	Dec. 1-31 Dec. 1-Jan. 31	37		
	Jan. 1-31	1		
Lyon	Dec. 1-31	3		
	Day 1 7 01	8		
Marshall	Dec. 1-Jan. 31			
Marshall 1	Dec. 1-Jan. 31	22	1	•
Marshall 1 Page 1 Polk 1	Dec. 1-Jan. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31	22 6	1	•
Marshall	Dec. 1-Jan. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Jan. 1-31 Dec. 1-Jan. 31	22	1	•

Place.		Date.	Cases.	Deaths.	Remarks.
Iowa—Continued.				-	
Counties—Continued.	ĺ		j	İ	
Union	Jan	. 1–31			.
Warren		1-31			-
Webster		2. 1-31			-
Winnebago		. 1-31			•
Woodbury	Dec	e. 1-Jan. 31	. 11		•
Total for State			181	2	• •
					=
Kansas:	,			1	
Counties— Allen	Dad	. 1–31	. 5		
Atchison		. 1–31			•
Brown		. 1–31			
Butler	Dec	. 1-31	ĭ		-
Cherokee		. 1–31			]
Clay		. 1–31			
Decatur	Dec	. 1-31	1	1	
Dickinson	Dec	. 1–31	5		
Doniphan	Dec	. 1-31	1		.]
Jefferson		. 1-31	1		.
Johnson	Dec	. 1-31	4		
Kingman	Dec	. 1–31	1		•
Leavenworth—	ъ.	1 01	_	1	1
Leavenworth	Dec	. 1-31	2		·1
Marshall		. 1-31	78		•
Montgomery		. 1–31 . 1–31	4		
Nemeha		. 1–31 . 1–31	1 1		1
Osage Pawnee		. 1–30	i		Not previously reported.
Reno		. 1–30	i		Do.
Do		. 1–31	l î		1 20.
Rooks		1-31	i	1	
Shawnee	Dec	. 1–31	2	1	1
Sumner		1-31	6		
Wyandotte exclusive		1-31	9		1
Wyandotte, exclusive of Kansas City.					
Kansas City	Dec	1–31	11		
Total for State			179	1	
Kentucky: Paducah	Jan.	23-Feb 18	15	İ	
		23 7 00 2000			
Louisiana: Parishes—				!	
Ascension	Dec.	1-31	1	1	
East Baton Rouge	Dec.	1-31	25		
East Feliciana		1-31	30		
Iberville	Dec.	1–31	6		
Orleans—	_				
	Dec.	18-Feb. 18	119	1	
Rapides		1-31	1		
		1-31	4		
St. John	Dec.	1-31	1		
		1-Dec. 31 1-31	22 9		
		1-31	i		
			219	1	
		J:			No cases.
faine (entire State)	Dec.	1–31			
faryland:	Dec.	1–31			
faryland: County—	Dec.	1–31			
laryland: County—		1-31	8		Dec. 1-31, no cases
faryland: County— Garrett	Jan.	1-31			Dec. 1-31, no case•₄
faryland: County— Garrett	Jan.				
faryland: County— Garrett	Jan.	1-31			Dec. 1-31, no case•₄
faryland: County— Garrett	Jan.	1-31			Dec. 1-31, no case•₄
Iaryland: County— Garrett	Jan. Dec.	1-31			Dec. 1-31, no case•₄
Iaryland: County— Garrett  Iassachusetts Iichigan: Counties— Alcona.	Jan. Dec. Dec.	1–31	8		Dec. 1-31, no case•₄
Iaryland: County— Garrett.  Iassachusetts.  Counties— Alcona Alger. Alpena.	Jan. Dec. Dec. Dec. Jan.	1-31	8 		Dec. 1-31, no case.
Iaryland: County— Garrett  Iassachusetts  Counties— Alcona Alger Alpena Antrim	Jan. Dec. Dec. Jan. Jan.	1-31	1 1 1 1		Dec. 1-31, no case.
Iaryland: County— Garrett.  Iassachusetts. Iichigan: Counties— Alcona. Alger. Alpena. Antrim Arenac	Jan. Dec. Dec. Jan. Jan. Dec.	1-31	1 1 1 1 1 7		Dec. 1-31, no case.
Iaryland: County— Garrett  Iassachusetts Iichigan: Counties— Alcona. Alger. Alpena. Antrim Arenac. Bay.	Jan. Dec. Dec. Jan. Jan. Dec. Dec.	1-31	1 1 1 1 7 2		Dec. 1-31, no case.
Iaryland: County— Garrett  Iassachusetts.  Iichigan: Counties— Alcona Alger. Alpena. Antrim Arenac Bay. Calhoun	Jan. Dec. Dec. Jan. Jan. Dec. Dec. Dec. Dec.	1-31	1 1 1 1 1 7		Dec. 1-31, no case•₄

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Counties—Continued.			1	
Cheboygan	Dec. 1-Jan. 31	26		
Clare	Jan. 1-31	8		
Clinton	Dec. 1-31	3		
Crawford	Dec. 1-Jan. 31	6		
Eaton	Dec. 1–Jan. 31 Jan. 1–31	30		•
Emmet	Dec. 1-Jan. 31	9	1	-
Gladwin	Dec. 1-31		. 1	Case reported in November.
Grand Traverse	Dec. 1-31	i		case reperted in recommen
Gratiot	Dec. 1-Jan. 31	7		
Huron	Jan. 1-31	8		
Ingham	Dec. 1–31	2		
Ionia	Jan. 1-31	3		
Isabella	Dec. 1-Jan. 31	10		
Kalamazoo	Dec. 1-Jan. 31	12		
KeweenawLake	Dec. 1–Jan. 31 Dec. 1–31	3		
Lapeer	Dec. 1-31	ľi		
Leelanau	Jan. 1–31	2		
Marquette	Dec. 1-Jan. 31	10		
Midland	Dec. 1-31	3		
Missaukee	Dec. 1-31	3		
Monroe	Dec. 1-31	2		
Muskegon	Jan. 1-31	1		
Newaygo	Jan. 1-31	3		•
Presque Isle	Dec. 1-31	1		
Saginaw	Dec. 1-31	3	3	
SalinacSt. Clair	Jan. 1–31 Dec. 1–Jan. 31	2		
Washtenaw	Dec. 1-Jan. 31	3		
Wayne	Dec. 1-31	i		
Wexford	Dec. 1-31	5		
52255				
Total for State	• • • • • • • • • • • • • • • • • • • •	214	6	
innesota:				
Counties—			!	
Beltrami	Dec. 19-Jan. 16	2		
Bigstone	Dec. 26-Jan. 1	ī		
Blue Earth	Dec. 19-25	1		
Douglas	Dec. 5-Jan. 1	3		
Fillmore	Nov. 27-Dec. 4	1		
Hennepin	Dec. 3-Jan. 30	32		
Kandiyohi	Jan. 24–30	.1		
Koochiching	Dec. 5-Jan. 23	11		
Lac qui Parle	Jan. 10–16 Dec. 26–Jan. 1	1 3		
Le Sueur	Jan. 17-23	3		
Nobles	Dec. 5-25	3		
Norman	Dec. 12-Jan. 30	16		
Olmstead	Jan. 10-16			
Pipestone	Jan. 10-16	3		
Pope	Jan. 3-9	3		
Ramsey	Dec. 5-Jan. 16	86		
St. Louis	Nov. 27-Dec. 4	8		•
Sibley	Dec. 26-Jan. 16	2		
Todd	Dec. 5-Jan. 30	$\frac{22}{1}$		
	Dec. 26-Jan. 1 Dec. 26-Jan. 2	2		
Wadena Winona	Jan. 17–23	í		
W IIIOIIa	Jan. 17-20			
Total for State		207		
issouri:	ľ			
	Nov. 1-Jan. 31	119		
St. Joseph	Feb. 5-18	16		
St. Louis	Dec. 18-Feb. 18	15	1 !	
Springfield	Feb. 5-11	10		
	-			
Matal for State		160	1	
Total for State	=			
ntana:	=		1	
ontana: Counties—	=			
ontana: Counties— Beaverhead	Jan. 1–31	1		
ontana: Counties— Beaverhead Cascade	Dec. 1-Jan. 31	6		
ontana:  Counties—  Beaverhead  Cascade  Chouteau				

Place.	Date.	Cases.	Deaths.	Remarks.
Montana—Continued.				
Counties—Continued.		1	1	
Deerlodge		. 13	1	
Missoula	Jan. 1-31			·I
Powell	Jan. 1–31 Dec. 1–31	3		•
Ravalli	Nov. 1-Jan. 31			•
Butte.	1107.1-5411.01	20		•
Butte	Nov. 1-Jan. 31	41	1	.
Teton	Jan. 1-31	1		•
Total for State		.) 4	1	-
ew Jersey:				=
County-	,		1	
Bergen	Dec. 1-31	2		
				=
ew York:		ĺ	i	
Counties— Allegany	Nov. 1-30	1	i	1
Chautauqua	Jan. 1-31	4		1
Columbia	Jan. 1-31	i		1
Niagara	Jan. 1-31	ī		l.
Onondaga	Jan. 1-31	1		
Tioga	Dec. 1-31	1		
Tompkins	Nov. 1-30	1		
Total for State		10		1
orth¶Carolina:				
Counties—			1	
Alamance	Jan. 1-31	1 35		
Beaufort	Dec. 1-Jan. 31			
Bertie	Jan. 1-31	1 63		
BladenBrunswick	Nov. 1-Jan. 31 Dec. 1-Jan. 31	49		
Burke	Jan. 1-31	1		
Carteret	Nov. 1-Jan. 31	44		
Caswell	Jan. 1-31			
Chatham	Dec. 1-Jan. 31	40		
Cleveland	Jan. 1-31			Present.
Columbus	Nov. 1-Jan. 31	63 2		
CravenCumberland	Jan. 1–31 Nov. 1–Jan. 31	32		
Currituck	Jan. 1-31	2		
Duplin	Dec. 1-31	20		
Durham	Nov. 1-Jan. 31	440		
Edgecombe	Nov. 4-Jan. 31	7		
Franklin	Nov. 1-30	1		
Granville	Dec. 1-Jan. 31	15		
Henderson Hertford	Dec. 1-Jan. 31 Dec. 1-31	10 1		
Johnston	Dec. 1-31			Jan. 1-31, present.
Jones.	Jan. 1-31	6		, F
Lee	Dec. 1-Jan. 31	7		
Lenoir	Jan. 1-31	.2		
Martin	Nov. 1-Dec. 31	17		
Mecklenburg Nash	Jan. 1-31	5	•••••	
New Hanover	Nov. 1-30 Nov. 1-Jan. 31	597	••••••	
Northampton	Jan. 1-31	12		
Onslow	Dec. 1-Jan. 31	65		
Orange	Jan. 1-31	12		
Pasquotank	Nov. 1-30	105		
Pender	Nov. 1-Jan. 31	127		
Person	Jan. 1–31 Nov. 1–Jan. 31	1 26		
Robeson	Nov. 1-Jan. 31	160		
Rowan	Dec. 1-Jan. 31	4		
Sampson	Dec. 1-Jan. 31 Dec. 1-Jan. 31	21		
Union	Nov. 1-Jan. 31	5		
Vance	Jan. 1–31	18		
Wake	Nov. 1-Jan. 31	21		
Washington	Jan. 1–31 Dec. 1–Jan. 31	2 4	••••••	
Wayne Wilkes	Jan. 1-31	1		
	-			
Total for State		1,917		

## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received from December 31, 1910, to March 3, 1911.

Place.	Date.	Cases.	Deaths.	Remarks.
North Dakota:				
Counties—	D 1 01	١.	1	
Cass	. Dec. 1-31	. 1		
Grand Forks	Jan. 1-31	1		1
Morton	Dec. 1–31 Jan. 1–31	1		1
Ramsey	Jan. 1–31	1		•
Steele		19		1
Stutsman	Jan. 1–31	1		1
Total for State		24		
Ohio:			1	
Counties—	Jan. 1-31	1	i	
Ashland Clark		46		
Franklin	Dec. 1-Jan. 31	ii		
Fulton		4		
Hamilton		3		
Lorain	Dec. 1-31	2		
Montgomery		ī		
Portage	Dec 1-31	î		
Ross	Dec. 1–31 Jan. 1–31	i		
Williams.	Jan. 1-31	3		
W IIIIams	Jan. 1 - 01			
Total for State		73		
Oklahoma:	ł			
Counties—		١.		
Adair	Nov. 1-30	1		
Atoka	Dec. 1-31	1		,
Beckham	Nov. 1-Dec. 31	20		
Blaine	Nov. 1-Dec. 31	2		
Bryan	Nov. 1-Dec. 31 Nov. 1-30 Nov. 1-Dec. 31	16		
Caddo	Nov. 1-30	27 27		
Canadian	Nov. 1-Dec. 31			
Custer	Dec. 1-31	1		
Garfield	Dec. 1-31 Nov. 1-Dec. 31	3	1	
Grady	Nov. 1-30	ı		
Green	Nov. 1-Dec. 31	12		
Hughes	Dec. 1-31	1		
Kay	Dec. 1-31	i		
Latimer McIntosh	Nov. 1-Dec. 31	12		
Major	Dec. 1-31	4		
Marshall	Nov. 1-30	8		
Oklahoma	Dec. 1-31	ĭ		
Osage	Dec 1-31	ī		
Pittsburg	Dec. 1-31 Dec. 1-31	i		
Seminole	Dec. 1–31	4		
Stephens	Dec. 1-31	ī		
Tulsa	Nov. 1-Dec. 31	2		
Washington	Dec. 1-31	ī		
Washita	Nov. 1-30	1		
Woods	Dec. 1-31	10		
	20012 0200			
Total for State		139	1	
Pennsylvania, entire State	Oct. 1-31 Nov. 1-30	i		No cases.
outh Carolina: Camden	Jan. 15-21	1		
Camuen	Van. 10 21	<u> </u>		
'ennessee:				
Counties—				
Davidson—				
Nashville	Jan. 8-Feb. 4	2	2	
Hamilton-			[	
Chattanooga	Jan. 1–Feb. 18	7	1	
Knox—		_		
Knoxville	Jan. 22-Feb. 18	2		
Shelby	Nov. 1-Dec. 31	139	2	
Total for State		150	5	
	,	100		
10001101 000001111111				
			1	
exas:				
exas: Counties— Cameron	Jan. 1-31	31		
exas: Counties—	Jan. 1–31 Jan. 1–31	31 2 20		

Place.	Date.	Cases.	Deaths.	Remarks.
Texas—Continued.				
Counties—Continued.		۱		
Dallas	Dec. 1-31 Jan. 1-31	24 17	3	•
El PasoGrimes	Nov. 1-30	17	3	
Guadaloupe	Jan. 1-31	5	2	
Henderson	Nov. 1-Jan. 31	13		
Hidalgo	Nov. 1-Jan. 31 Dec. 1-31	1		
Jones	Jan. 1-31	3		•
McLennan	Nov. 1-Dec. 31 Jan. 1-31	4 7		•
Waco Marion.	Dec 1-31	3		•
Matagorda		5		1
Nueces	Jan. 1-31	ľ		
Orange	Jan. 1-31	1 7 1 2		
Runnels	Jan. 1-31	1		
Swisher	Dec. 1-31 Dec. 1-Jan. 31	3		1
Tarrant Taylor	Jan. 1-31	1		1
Uvalde	Jan. 1-31	i		
Van Zant—	Jan. 1-01	•	l	1
Willis Point	Nov. 1-Jan. 31	8	1	
Total for State		198	6	
tah:				
Counties—				
Beaver	Nov. 1-Dec. 31	86		
Cache		8 2		
Davis	Dec. 1-31	2		
Iron	Nov. 1-Dec. 31	62		
Millard	Nov 1-Dec 31	5 11		
Salt Lake	Nov. 1-Dec. 31	42		
Sanpete	Dec. 1-31	1		
Sevier	Dec. 1-31	30		
Washington Weber	Nov. 1-Dec. 31	47		
Weber	Nov. 1-Dec. 31	9		
Total for State		303		
Vashington:				
Counties—				
King.	Dec. 1-31	20		
King. Pierce.	Dec. 1-31	ĩ		
		93		
Snohomish	Dec. 1-31	6		
SpokaneStevens	Nov. 1-30	1		
Stevens	Dec. 1-31	1		-
Total for State		122		
Total for State		122		
isconsin:				
Counties-	<u>.</u>		İ	
Ashland	Jan. 1-31	1		
Barron	Jan. 1-31	3		-
Chippewa Dane	Dec. 1-Jan. 31	4 2		
Dunn	Jan. 1-31	2		_
Green	Dec. 1-Jan. 31 Jan. 1-31	8 2		
Iowa	Dec. 1-Jan. 31	3Õ		
Jefferson	Dec 1-Ian 31	10		
Lafayette	Dec. 1-Jan. 31			
La Crosse	Dec. 1-Jan. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31	8 3 8 3		
MilwaukeeOneida	Dec. 1-Jan. 31	8		
St. Croix	Dec. 1-Jan. 31 Dec. 1-Jan. 31	4		
	Jan. 1-31	4		
Vilas	Dec. 1-31	ī		
Walworth	Dec. 1-31	î		
Washington	Dec. 1-31	ī ļ		
	}-	93		
Total for State		39-3 1		
Total for State  Grand total for the		5,647	28	

## MORBIDITY AND MORTALITY.

MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES, FOR WEEK ENDING FEBRUARY 18, 1911.

a	Popula- tion, United	Total deaths	Di <sub>l</sub>	ph- ria.	Mea	sles.		rlet ør.		all- ox.		ber- osis.	ph fer	y- loid ver.
Cities.	Cities. States, census 1910.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having over 500,000 inhabitants.										•				!
Baltimore, Md. Boston, Mass. Chicago, Ill. Cleveland, Ohio. New York, N. Y. Philadelphia, Pa. Pittsburg, Pa. St. Louis, Mo.	558, 485 670, 585 2, 185, 283 560, 663 4, 766, 883 1, 549, 008 533, 905 687, 029	678 165 1,644 587 196 234	29 47 138 25 315 99 14 41	3 2 11 6 33 21 1 2	140 96 153 42 431 399 44 382	2 2 3 1 17 8	35 43 199 106 510 45 22 84	16 16 1 26 6 1 6	1		41 55 147 27 492 76 27 50	31 33 86 21 203 85 14 16	10 4 13 11 27 19 10 7	3 1 8 3 3
Cities having from 300,000 to 500,000 inhabitants.							;							
Buffalo, N. Y. Cincinnati, Ohio. Detroit, Mich. Los Angeles, Cal. Milwaukee, Wis. Newark, N. J. New Orleans, La. San Francisco, Cal. Washington, D. C.	423,715 364,463 465,766 319,198 373,857 347,469 339,075 416,912 331,069	111 110 171 105 107 100 144 123 118	22 7 18 7 25 27 4 3 4	3 2 3  4 1 1 1	38 16 13 12 61 28 11	1 2	26 14 44 36	2	::::		22 5 10 15 26 48 18 35	11 11 5 16 6 17 21 7 16	10 2 3 5 5 2 1 5	1 1  i
Cities having from 200,000 to 300,000 inhabitants.														
Jersey City, N. J Providence, R. I Seattle, Wash	267,779 224,326 237,194		9				10	i				8		
Cities having from 100,000 to 200,000 inhabitants.														
Bridgeport, Conn. Cambridge, Mass. Columbus, Ohio. Dayton, Ohio. Fall River, Mass. Grand Rapids, Mich. Lowell, Mass. Nashville, Tenn. Oakland, Cal. Paterson, N. J. Spokane, Wash. Toledo, Ohio. Worcester, Mass.	102,054 104,839 181,548 116,577 119,295 112,571 106,294 110,364 150,174 125,600 104,402 168,497 145,986	24 37 37 54 39 43 46 40 29 40 45	1 3  1 1 1 4 2  6 3 4 7	1 1	187 2 85 6  18 1	4	8 2 3 9 9 7 5 5				6 4 13  9 4 2 4 1 7  8	3 2 8 5 9 2 2 4 4 3 4 6	1 1 4 1 2 	i
Cities having from 50,000 to 100,000 inhabitants.														
Allentown, Pa. Altoona, Pa. Bayonne, N. J. Brockton, Mass. Camden, N. J. Canton, Ohio. Covington, Ky Des Moines, Iowa Duluth, Minn. Elizabeth, N. J. Erie, Pa. Evansville, Ind. Fort Wayne Ind	51, 913 52, 127 55, 545 56, 878 94, 538 50, 217 53, 270 86, 368 78, 469 66, 525 69, 647 63	13 17 17 14 14 28	3 12 5 3 1 1 1	1	5 10 		1 3 4 4				1	$ \begin{array}{c} 1\\2\\\dots\\3 \end{array} $	1 2	i
Fort Wayne, Ind. Harrisburg, Pa. Hartford, Conn. Hoboken, N. J. Houston, Tex. Jacksonville, Fla. Johnstown, Pa. Kansas City, Kans.	63, 933 64, 186 98, 915 70, 324 78, 800 57, 699 55, 482 82, 331	16 33 30 25 22 27	5 2	i	2	i	1 13 11 1 1				2 2	5 2 1 3	1	1 1
Lawrence, Mass. Lynn, Mass. Manchester, N. H. New Bedford, Mass. Oklahoma, Okla. Passaic, N. J.	85, 892 89, 336 70, 063 96, 652 64, 205 54, 773	31 25 20 31 24 16		1 1 1	17 4 3		2 7 2 1 3 2		3		4 3 4 6 1	3 4 3 3	1	

## MORBIDITY AND MORTALITY—Continued.

Morbidity and mortality table, cities of the United States, for week ending February 18, 1911—Continued.

OW	Popula- tion, death United from		the	iph- eria.	Mea	sles.		arlet ver.		nall- ox.		iber- losis.	ph	Ty- loid ver.
States,	States, census	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 50,000 to 120,000 inhabitants—Continued.														
Portland, Me	58, 571 96, 071	44	<sub>i</sub>	··i·	57		ii	·			5		<u>.</u>	
Reading, PaSaginaw, Mich	50, 510		ļ <b>.</b> .	ļ <b>.</b> .				.]						
St. Joseph, Mo	50, 510 77, 403 92, 777			1	3		2			l			1	
San Antonio, Tex	96,614	47			9		2	ļ				10	2	i
Somerville, Mass	72, 826 77, 236	31	6	i	6		4	::::			5	3	1	
South Bend, Ind Springfield, Ill	53,684 51,678	14 24	3		5 1		13					2 2	••••	
Springfield, Mass	88,926	41	4	1	5	ļ	7				2	6		i
Tacoma, Wash	83,743 58,157	28 15	4		2		1 4		11			2		
Terre Haute, Ind. Trenton, N. J. Utica, N. Y. Wichita, Kans	96,815	34	4	i			4				6	3	7	
Utica, N. Y	74,419 52,450	· · · · · · · · · ·	····		••••									
Wilkes-Daile, Fa	52, 450 67, 105	21	2		1		4				3		1	
Wilmington, Del Yonkers, N. Y	87,411 79,803	45 23	i	2	3		15	1			3	5 1	••••	
Youngstown, Ohio	79,066		<b>-</b>		••••	····		ļ	••••		····	<b>-</b>	••••	• • • •
Cities having from 25,000 to 50,000 inhabitants.														
Atlantic City, N. J	46,150 34,668	8 14			1	• • • •	i					• • • • • • • • • • • • • • • • • • •	1	
Auburn, N. Ý	29,807						<b>.</b>							
Bay City, Mich. Berkeley, Cal. Binghamton, N. Y. Bloomington, Ill.	45, 166 40, 434	8	• - • - •		7	••••	••••		::::	• • • •	•••••	••••	··i·	
Binghamton, N. Y	48,443	14	1			1	1				5	1		
Brookline, Mass	25,678 27,792	8	····i		···i		3 1		2	• • • •			1	···i
Charlotte. N. C.	34,014						• • • • •			;-				••••
Chattanooga, Tenn Chelsea, Mass	44,604   32,452	10	2		10	::::	<u>.</u>		1	1	····2		1	2
Chicones Magg	25,401	5	4		1		• • • • •			• • • •	2	••••	1	••••
Council Bluffs, Iowa Danville, Ill	29, 292 27, 871	7	1		i		···i		1		i	···i		· · · ·
Decatur, III	31, 140 38, 494	13	· · • • •				<u>.</u> 5					3		
Dubuque, Iowa East Orange, N. J	34, 371	7	1			:::	3				i			
East Orange, N. J	37, 176   39, 279	18 24	1	• • • •		::::			3			1 5	1	• • • •
Everett, Mass	33, 484	12	i								i	ĭ		
Frankfort, Ind Haverhill, Mass	26,672 44,115		2	• • • •		• • • •	3				4		i	• • • •
Haziaton Pa	25, 452		2											
Kalamazoo, Mich Kingston, N. Y	39, 437 25, 908	20	2		36	::::	2			::::	1	1	1	
Knoxville, Tenn La Crosse, Wis	36, 346	9	2	:	50				1					• • • •
La Crosse, Wis Lancaster, Pa	30, 417 47, 227	16	1	· • • • †			<b>.</b>				····2	1 1		· · · ·
Lexington, Ky	35,099 29,494	8	5		6		2 1				6		• -	• • • •
Lynchburg, Va	42,694	11 17	1				1 [	'			1	i	''i'	
Malden, Mass	44, 404	17 17	1	• • • • • •	10	• • • •	4					1 1	·  -	• • • •
Montgomery, Ala Mount Vernon, N. Y	38, 136 30, 919	8			3		4	• • • • •				i		• • • •
Newcastle, Pa	36, 280   . 30, 309	9	2				···· <sub>2</sub> ·		· · · · · · · · ·		1	i	7 .	• • • •
Newport, R. I	27, 149													
Newton, Mass Niagara Falls, N. Y	39, 806 30, 445	9 13	3	• • • •	6	1	5				27	3	.	
Norristown, Pa	27,875	10			2 2							1		• • • •
Orange, N. J	29,630 32,121	10 12	2	· · · · !			4		····			1	••••	
Portsmouth, Va	33, 190	12			2		2				' .			••••
Portsmouth, Va Poughkeepsie, N. Y Roanoke, Va	27,936 34,874	16 14	i		2		13		···· ·	::: <u> </u>	3 4	3 4	··i·	i
Sacramento, Cal	44,696	25										4	1 3	3

## MORBIDITY AND MORTALITY—Continued.

Morbidity and mortality table, cities of the United States, for week ending February 18, 1911—Continued.

Cities.	Popula- tion, United	Total deaths from	the	ph- ria.	Mea	sles.		arlet ver.		all- ox.		ber- osis.	ph	y- oid er.
States, census 1910.	census	all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 25,000 to 50,000 inhabitants—Continued.														
Salem, Mass	43,697 39,598	16	3	1	1	ļ							1	<b> </b> -
San Jose, Cal. Sioux City, Iowa.	28,946													
Springueld, Unio	47, 828 46, 921	····ii	2		2		1		z		···· <sub>2</sub>			• • • ·   • • • ·
Superior, Wis	40,384	17	4	••••			3		<b> </b> -			1 4	••••	
Taunton, Mass Topeka, Kans	34, 259 43, 684	20 20	1									*		
Waltham, Mass	27,834 41,641	6 14	i	··i			1					···i	1 2	
Wheeling, W. Va	31,860	12			3		3						ī	i
York, Pa Cities having less than	44,750	13	1	••••	• • • • •		1		• • • •			1	••••	
25,000 inhabitants.			i											
Ann Arbor, Mich	14,817 18,266				• • • • •									• • • •
Beaver Falls, Pa Bennington, Vt	12, 191 8, 698											••••	••••	
Biddeford, Me	17,079													
Braddock, Pa Butler, Pa	19,357 20,728	12			• • • • •		1		• • • •			2		• • • •
Cambridge, Ohio Camden, S. C	11,327	2	1											
Carbondale, Pa	17,040	6			••••									• • • •
Clinton Mass	13,075 12,687	3					· · • • ·	· ····	••••	••••		• • • • •	••••	••••
Coffeyville, Kans Columbus, Ga Columbus, Ind	20, 554	6								••••				···i
	21,497	1	• • • • •							• • • •		1		• • • •
Cumberland, Md. Dunkirk, N. Y.	21,839	8	•••;•		1	• • • •	1			••••	••••	•••••	3	• • • •
Freeport, Ill	17,567	11										i		••••
Galesburg, Ill	22, 089 24, 398	2	••••		9		1							 
Greensboro, N. C	15,895	5		• • • •		••••					;-	1	••••	••••
Harrison, N. J	14, 498 15, 507	3 3	1		9		i				1	1		• • • •
Hyde Park, Mass Kearny, N. J Kokomo Ind	18,659 17,010	5	•••••		1	• • • •	1	····	••••	• • • •	• • • • •	••••	• • • •	• • • •
La Payette, Ind	20,081	8					• • • • · ·					2		i
Lebanon, Pa Manistee, Mich	20, 081 19, 240 12, 381	6	::::				• • • • • • • • •		::::					 
Manitowoc, Wis	13,027 14,610	3			;-		• • • • •				•••••			• • • •
Manitowoc, Wis Marinette, Wis. Marlboro, Mass. Massillon, Ohio	14, 579				اأ		• • • • • •							
Massillon, Ohio Medford, Mass	13,879 23,150	6	···i		2	:::: ·	····ż			::::	1 1			• • • •
Melrose, Mass Moline, Ill	15,715	6					;			••••				
Montclair, N. J	24, 199 21, 550	17	3		i i	:::: .		:::: :					1	ï
Nanticoke, Pa	18,877 14,949	10	. 4		••••							.		· - • •
Newburyport, Mass North Adams, Mass Northampton, Mass	22,019	6	1	1	3 ].		i				1		1 .	
Uttumwa, Iowa	19,431 22,012	13 14	- 1									1 .		
Palmer, Mass Peekskill, N. Y Plainfield, N. J Portsmouth, N. H		5 7	1 .				4				<b></b> .   -	1	2	
Plainfield, N. J	20,550 11,209	3			.;;.	.			-		i	î.		
Portsmouth, N. H Rock Island, Ill	11,209	6	1 2 .	1	19 .		2	1	::: :		· · · · ·	1 .		•••
Rutland, Vt	13,546	3 .		-		-			.		· · · · · ·	••••	1 .	• • •
Saratoga Springs, N. Y South Bethlehem, Pa	19,973	1 7		::: :				[:	:		<u>i</u> .		1 .	<b>-</b>
Steelton, Pa Warren, Ohio	14,246	4  -		<u> </u>		·		:::: ·		:::				•••
Wilkinsburg, Pa	14,246 11,081 18,924 15,308	10									i .			
Woburn, Mass	15,308	3  .	•••• •	••• •	••••	••• •			••• •	-			••• •	•••

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

Colorado Springs.—Month of November, 1910. Population, 29,078. Total number of deaths from all causes 46, including tuberculosis 21. Cases reported: Scarlet fever 13, typhoid fever 6.

Month of December, 1910. Total number of deaths from all causes 41, including tuberculosis 17, typhoid fever 1. Cases reported: Scarlet fever 16, typhoid fever 1.

Indiana.—Month of December, 1910. Population, 2,700,876. Total number of deaths from all causes 3,017, including diphtheria 44, measles 10, scarlet fever 10, tuberculosis 350, typhoid fever 61. Cases reported: Diphtheria 177, smallpox 45, in 7 counties.

Kansas.—Month of December, 1910. Population, 1,690,949. Total number of deaths from all causes not reported. The deaths from contagious diseases include diphtheria 15, measles 3, scarlet fever 6, smallpox 1, tuberculosis 53, typhoid fever 28. Cases reported: Diphtheria 141, measles 157, scarlet fever 389, smallpox 177, tuberculosis 243, typhoid fever 107.

New York.—Month of December, 1910. Population, 9,113,614. Total number of deaths from all causes 12,751, including diphtheria 180, measles 47, scarlet fever 93, tuberculosis 1,345, typhoid fever 131. Cases reported: Diphtheria 1,668, measles 2,953, scarlet fever 2,128, smallpox 2, tuberculosis 2,992, typhoid fever 577.

PENNSYLVANIA.—Reports from the State department of health show as follows:

Mortality.—Month of November, 1910. The total number of deaths reported was 9,221, including typhoid fever 204, scarlet fever 87, diphtheria 261, measles 44, whooping cough 78, influenza 74, malarial fever 7, tuberculosis of the lungs 655, tuberculosis of other organs 91, cancer 397, diabetes 61, meningitis 50, acute anterior poliomyelitis 22, pneumonia 1,198, diarrhea and enteritis, under 2 years 284, diarrhea and enteritis, over 2 years 74, Bright's disease 530, early infancy 577, suicide 76, accidents in mines and quarries 73, railway injuries 100, other forms of violence 450, all other diseases 3,822.

Morbidity.—Month of December, 1910. Cases of communicable diseases reported, 10,443, distributed as follows: Anterior poliomyelitis 15, anthrax 2, cerebrospinal meningitis 10, chickenpox 1,028, diphtheria 1,535, erysipelas 154, German measles 58, malarial fever 5, measles 2,275, mumps 343, pneumonia 868, puerperal fever 6, rabies 1, scarlet fever 1,096, smallpox 2, tetanus 4, trachoma 155, trichiniasis 3 tuberculosis 1,079, typhoid fever 1,010, whooping cough 794.

## FOREIGN AND INSULAR.

#### ARABIA.

#### Cholera in Yemen.

Consul Moser, at Aden, reports, January 27:

The consular agent at Hodeida reported January 17 that cholera was present at Bajil, a locality situated 25 miles east of Hodeida. Cholera subsequently appeared suddenly at Hodeida, with a daily average of 20 deaths. On January 21 official notice was received of the outbreak of cholera on the island of Perim, in the Straits of Bab-el-Mandeb, where the pilgrim inspection camp is located, and that all vessels from Perim and Hodeida arriving at Aden would be quarantined five days.

Consul Moser further reported, February 1, that the town of Hodeida and the interior of Yemen were free from cholera as regarded the native population, but that it was present in epidemic form among the Turkish troops stationed at various points throughout the province, with a total to date of 233 cases, with 102 deaths.

## CHINA.

## Amoy-Plague.

Acting Asst. Surg. Bonthius reports, January 23:

During the past three weeks three deaths from plague have occurred at Kulangsu. Plague is present on Amoy Island, and one case has been reported in Amoy city.

## HARBIN-Status of Plague.

Consul Greene reports, January 28:

The total number of deaths from plague at Harbin and Fuchiatien is reported as follows:

	Jan. 18–24, inclusive, 1911.	Total since beginning, Nov. 8, 1910.
Harbin. Fuchiatien. Total	1 246 1,010 1,256	2 679 2, 813 3, 492

One European.
 Of this number 425 died in the plague hospitals and 254 were found dead. Fourteen were Europeans.

From these figures it will be seen that the daily average of deaths in Harbin has increased since the previous week from 28 to 35 and in Fuchiatien from 114 to 144. It is generally believed that about 200 persons are actually dying daily in Fuchiatien, and that altogether nearly 4,000 persons have thus far died there and in that immediate vicinity. Taking the official figures, a steady increase is shown.

The three English physicians referred to in my last report began regular work in Fuchiatien on January 23. The troops who were to assist in enforcing the quarantine and sanitary measures arrived

January 27. Five hundred men were sent.

According to the railway company's reports, which do not include the dead bodies found, the number of cases and deaths on the railway lands has been as follows:

	Jan. 18-	24, 1911.	Total since beginning, Oct. 25, 1910.		
	New cases.	Deaths.	Cases.	Deaths.	
Chinese Europeans	186	163 3	959 28	929 26	
Total	189	166	987	955	

The Russian sanitary authorities here are maintaining four laboratories in which the necessary bacteriological examinations are made to verify the diagnoses of new cases, and in them independent experiments are also being conducted with animals to determine the nature of the disease and the manner in which it is communicated. No plague has thus far been found among the rats here, and apparently

fleas have had little or nothing to do with spreading it.

Inoculations with Haffkine's vaccine are being made free of charge at two places in the city, and a number of private practitioners are also busy with this work. Nothing definite can yet be said as to the preventive value of this treatment with the type of plague prevailing here. Of the three European physicians (including one medical student who had nearly finished his course) who have died of the plague here, two had not received the injection at all, and the third had taken only the first of the two injections that are commonly given here. On the other hand, two Chinese doctors and several Russian assistants and attendants who had been properly inoculated have died of plague.

On account of this record, at least one of the bacteriologists here is inclining to the belief that the bacillus of pneumonic plague is different from that of the bubonic plague, and that therefore there is nothing to be gained by the use of vaccines or serums prepared

from the latter.

It is worthy of note that very few Europeans have caught the plague—only 28 in all North Manchuria up to January 24—and that a large part of these have been persons whose duties brought them into close contact with the sick. In general the danger thus far appears to be very slight for persons who are able to live under proper sanitary conditions.

As might be expected, the epidemic is having a disastrous effect on trade. Only under exceptional conditions can Chinese merchants 297 March 10, 1911

now travel from place to place along the railway, while the danger from brigands and from the disease itself deters them from going by Frequent outbreaks of plague among the laboring classes seriously interfere with all establishments employing Chinese labor, and prevent the prompt handling of freight; a large number of cars are taken out of the railway service to be used as quarters for persons under observation; ordinary communication with Fuchiatien is stopped, and foreign merchants hesitate to enter into any contracts with Chinese for fear that the latter may not live to carry out their engagements. Many Chinese firms have closed their doors entirely. Among the Russians, while there is less ground for fear, people are living as quietly as possible, some are leaving for Europe, and many of those living in the New Town are unwilling to go to the Pristan, the business section of the city, on account of their fear of the numerous Chinese there. The shops are suffering accordingly, and in fact it seems as if business in everything except the bare necessities of life was fast coming to a standstill.

Consul Greene further reports, January 30:

During the 4 days ended January 28 plague occurred at Harbin and Fuchiatien as follows:

•	Jan. 25–28, 1911.	Total since beginning Nov. 8, 1910.
Harbin	1 152 589	2 831 3, 402
Total	741	4,233

14 Europeans.

<sup>2</sup> 18 Europeans.

A Russian semiofficial estimate places the population of Harbin at 53,000, of which number 32,000 are supposed to be Europeans and 21,000 Asiatics, mainly Chinese. The Russian troops in and about the city would probably bring the total population to about 57,000. The population of Fuchiatien is supposed to be between 15,000 and 20,000. In all probability a fifth of its population has already perished.

It seems probable that on account of improved policing the returns from Fuchiatien now state more accurately than before the number

of deaths occurring there.

## TIENTSIN-Plague.

Consul General Knabenshue reports, January 21:

Three fatal cases of plague were reported from January 14 to 21. These cases appeared in a locality of the city in which a sudden death in the person of a Chinese recently arrived from Mukden occurred January 14.

## Epidemic Pneumonic Plague in North China.

Consul General Knabenshue further reported, January 27:

According to the best information obtainable the present outbreak of pneumonic plague first appeared among the trappers on the plains of eastern Mongolia. A fur-bearing animal is exceedingly plentiful there which is called "han t'ah" by the Chinese. It is generally known among foreigners as the "land otter," and many of the skins

March 10, 1911 298

are exported through northern ports under this name. The animal is really a marmot allied to the American woodchuck and to the prairie dog of the Far West. The skins are generally exported from Tientsin under the name of marmot.

Pneumonic plague appears to be practically endemic over those portions of eastern Mongolia in which the marmot flourishes. It is said the Chinese in the past would not trap the marmot for superstitious reasons. The animal lives in colonies of from 30 to 50. It has the same habits of precaution on leaving its burrow as has the prairie dog. The Chinese say that when the animal is about to leave its burrow and notes some suspicious circumstance it emits a sound like "pu p'ah, pu p'ah" (no fear, no fear), and then returns to the depths of its habitation. The Chinese also say when the animal is trapped and still alive and the hunter approaches with a club to kill it the same note is emitted. It was this which led the Chinese in the past to have nothing to do with the animal. Their superstitious fears have been overcome within the past two years by the high price of marmot skins, the large number of the animals, and the ease with which they are trapped. Two years ago the total number of Chinese trappers was about 300; last year there were between 2,000 and 3,000, while in the present year there are over 10,000 trappers who find the occupation profitable. The expert trapper can secure from 20 to 30 skins per

The marmot is subject to pneumonic plague, which kills off entire colonies of these animals. The disease is probably propagated by the fleas which these animals always carry, and perhaps also by direct infection, as in the case of a trapper who captures an animal

suffering from it.

The number of trappers is so great this year that they have adopted the practice of bringing the skins to Harbin, and probably other central points, in person, instead of selling to the buyers in the region where the animals are trapped. These men undoubtedly brought the pneumonic plague to Harbin, where the present epidemic started. Again, large numbers of these Chinese follow the universal custom of going to their homes at the Chinese New Year. Some of these men became infected, and the disease broke out while they were on their way southward. Many of those residing in Shantung went to Dalny, and thence by steamer to Chefoo, infecting both places. Others came down the railway line through Shanhaikwan to Tientsin and Peking, carrying the plague to the two latter places. At Tientsin those residing in the western part of the province of Shantung took the Pukow railway to their homes, carrying the disease with them.

Pneumonic plague seems to be directly infectious from patient to patient through the sputum. The bacillus does not appear to live long outside the body, even in the sputum. Three hours' exposure of the germs to the sun's rays has been found to destroy them, and with the advent of warm weather in north China the danger may be passed. A very active campaign is being made in Peking and Tientsin against rats, which are undoubted disseminators of the bubonic form of the disease. In the foreign concessions at Tientsin there has been a general cleaning up of premises, both business and residential. The foreign residents have all been inoculated with prophylactic serum, and with proper precautions as to cleanliness and absence of contact with the natives, little fear is felt by them.

## Marmot skins as the Medium of Plague Transmission.

Acting Asst. Surg. Ransom, at Shanghai, reports, January 19:

The collection of marmot skins for shipment to America is believed to have been the origin of the outbreak of plague in north China. There is a small lot of these skins on hand at Shanghai, which have been here for a considerable length of time. The skins are prepared by being sun dried and packed in boxes containing a large amount of naphthalin distributed between the skins. No skins have been shipped from Shanghai this season, and practically none were shipped last year. Many thousands of skins were shipped to America in 1908.

#### CUBA.

#### Transmissible Diseases in the Island.

Acting Asst. Surg. Villoldo reports, February 21:

The following statement of transmissible diseases in the island of Cuba was issued by the department of sanitation:

### JANUARY 21-31, 1911.

Diseases.	New cases.	Deaths.	Remaining under treatment.
Tuberculosis	60	85	2, 546
Leprosv		2	344
Malaria		8	187
Typhoid fever	30	5	71
Diphtheria	29	4	26
Scarlet fever	9		17
Measles	152		272
Varicella	24	1	41
Tetanus in the new born	5	5	
Filiariasis			1

No quarantinable diseases were reported during the week ended February 18.

### Typhus Fever on Steamship.

Dr. Villoldo reported, February 25:

The steamship *Monterey* arrived at Habana February 13 with a case of typhus fever on board in the person of a second-cabin passenger. The patient had been in Mexico City and from there had gone to Veracruz where he remained eight days. He sailed February 9 on the steamship *Monterey*, and was taken ill February 12. The patient was removed to Las Animas hospital.

### HAWAII.

## Status of Cholera.

Passed Asst. Surg. Ramus reported the occurrence of 4 deaths from cholera on March 3, 2 in the quarantine camp and 2 in Honolulu, on March 4, 2 cases with 1 death, on March 5, 1 case with 2 deaths, and on March 7, 3 fatal cases, making to date a total of 23 cases with 20 deaths.

#### Record of Plague Infection.

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. A fatal case occurred at Honokaa, 60 miles from Hilo, December 17, 1910, and 2 fatal cases were reported January 31, 1911.

The last plague-infected rat was found at Honokaa, February 2,

1911.

Dr. Ramus reports in regard to plague-prevention work, February 13:

#### HONOLULU.

## Week ended February 11, 1911.

Total rats and mongoose taken	607
Rats trapped	587
Mongoose trapped	
Rats killed by sulphur dioxide	13
Examined bacteriologically	524
Classification of rats trapped:	
Mus alexandrinus	66
Mus musculus	182
Mus norvegicus	87
Mus rattuš	252
Classification of rats killed by sulphur dioxide:	
Mus alexandrinus	3
Mus rattus	10
Average number of traps set daily	1,720

#### INDIA.

#### CALCUTTA-Cholera and Plague.

Acting Asst. Surg. Allan reports, February 2:

During the week ended January 14, 1911, there were reported at Calcutta 21 deaths from cholera and 11 from plague; in all Bengal, 1,781 cases of plague with 1,295 deaths; in all India, 15,003 cases of plague with 12,143 deaths.

#### JAPAN.

### KOBE-Quarantine Measures Against Plague.

Acting Asst. Surg. Moore reports, February 2:

The authorities at Kobe are using every means to prevent the introduction of plague from Dalny. All vessels arriving from ports in Manchuria are fumigated and the baggage of passengers is disinfected. The disinfection of postal matter from plague-infected ports was begun January 21. Practically all of the plague cases in Manchuria are stated to be of the pneumonic type, and the epidemic is believed to have originated among trappers and hunters of marmot skins. No cargo from Manchuria reaching Kobe for transshipment to American ports will be certified and all passengers from an infected locality will be detained seven days from the date of their departure from such locality.

## KOREA.

## Measures Against Importation of Plague.

Consul General Scidmore, at Seoul, reports, January 16 and 22:
According to press notices of January 15 and 22, passengers arriving from Manchuria at New Wiju, Chemulpo, Kusan, and Mokpu are subject to inspection and those presenting symptoms of illness will be detained in isolation for a period of three days. The

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prompt reporting to the local authorities of all cases of sudden death from acute diseases, also the finding of dead rats, is required. Importation from China of rags, old cotton, paper, feathers, furs, clothing, and similar articles is prohibited. Destruction of rats at localities along the Yalu River and at ports of call for Chinese junks is ordered.

## MADEIRA ISLANDS.

## Status of Cholera.

Chargé d'Affaires ad Interim Lorillard, at Lisbon, Portugal, re-

ported, February 6, to the Department of State:

According to official information received from the foreign office, there were reported in the Madeira Islands, from January 15 to 31, 76 cases of cholera with 21 deaths, distributed as follows:

Funchal—7 cases, 2 deaths; Camara de Lobos—9 cases, 5 deaths; Ponta do Sol—8 cases, 4 deaths; Santa Cruz—6 cases; Porto Santo Island—1 death; Machico—46 cases, 9 deaths. During the period from January 1 to 15 there were reported 251 cases with 77 deaths.

#### PERU.

### Quarantine at Peruvian Ports Against Arrivals from Guayaquil.

Consul General Dietrich, at Guayaquil, forwarded, January 12, the following notice issued December 29, 1910, by the director of public health of Peru:

Experience has demonstrated the possibility that passengers from Panama who do not land in Guayaquil, but remain on board the ship during its stay in said port, may contract yellow fever. It being necessary to avoid that danger, particularly during the present summer season, and it being possible, moreover, for passengers from Panama for Peru to come direct in the steamers which do not directly touch at Guayaquil, this office, with the consent of the minister of the department, has given instructions that passengers from Panama who come in ships that touch at Guayaquil shall not be permitted to disembark in Peruvian ports to the north of Callao, and at Callao they will only be permitted to disembark after 6 days of observation from the time of the departure of the ship from Guayaquil.

It has also been ordered that the berths and saloons of the ships be fumigated on leaving Guayaquil, under the direction of the sani-

tary inspector of the ship.

### RUSSIA.

#### Status of Cholera.

Minister Rockhill, at St. Petersburg, reported February 6 to the Department of State:

During the week ended January 14 there were officially reported 4 cases of cholera with 1 death in the Government of Ekaterinaslav.

#### TURKEY.

#### SMYRNA-Status of Cholera.

Consul General Harris reported, February 1:

During the month of January, 1911, there were reported in the city of Smyrna 322 cases of cholera with 194 deaths.

#### VENEZUELA.

#### CARACAS-Yellow Fever.

Chargé d'Affaires Whitehouse reported to the Department of State February 4:

During the two weeks ended January 28 there were reported in Caracas 7 cases of yellow fever.

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

## Reports Received During Week Ended March 10, 1911.

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.

	CHO.	LEKA.		
Places.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Bail	Jan. 19-27	2	l	
Hodeida	Jan. 23-27		79	
Menakha	Jan. 19-27	89	20	İ
Obal	Jan. 27	1	1	Í
_ Zeidie	Jan. 27	2	2	
Hawaii:	35 0.5			*
Honolulu	Mar. 3-7	10	. 9	
India: Bombay	Jan. 22-28		7	1
Calcutta	Feb. 8-14		21	
Indo-China:	1 60. 0-11			
Saigon	Jan. 16-22	3	3	
Java : T	1	1		
Batavia	Jan. 15-21			
Soerabaya	Dec. 18-24	4	2	
Russia:			_	
Yekaterinislav government.	Jan. 8-14	4	1	
Siam:	Esh 10 Ton 01	100	160	
Bangkok	Feb. 16-Jan. 21	160	160	
Turkey in Asia: Damascus	Feb. 3	13	3	Among pilgrims.
	YELLOW	FEVE	R.	
Brazil:				
Manaos Para Para	Jan. 22-Feb. 4 Jan. 29-Feb. 11	1:	27	•
	PLA	GUE.		
Chile:				
Iquique	Jan. 8-28	3	3	
China:		-	_	
Amoy	Jan. 21	1		Present in Amoy Island.
Kulangsu	Jan. 1-21	3	3	
Manchuria—	D 0"			
Ashihe Dunzenshan	Dec. 25 Dec. 25-Jan. 13	2 17	21	
Fuchiatien	Jan. 18-24	17	1.010	•
Do	Jan. 25–28		589	
Harbin	Jan. 18-28		398	Five deaths among Europeans.
Iaomin	Dec. 25-31	1	1	1110 downs among natopounds
Kuantchentiy	Jan. 1-14	4	4	
Liesania vetka Handa-		_	_	
ohedzy	Dec. 25-Jan. 13	9	9	
Lochagri	Dec. 27. Jan. 1-7.	4	4	
Moershan	Jan. 1-7	1	1	
Mukden	Jan. 1-20	••••••	189	
Sanshahe Tzaitzzaigoy	Jan. 1–7 Jan. 1–7	3 2	3 2	
India:	40H. 1-1	2		
Bombay	Jan. 22-28		45	
Calcutta	Jan. 8-14		ĩi l	
Kurrachee	Jan. 22-28	15	15	
Indo-China:			1	
Saigon	Jan. 16–22	1	1	
-				

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

## Reports Received During Week Ended March 10, 1911.

### SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brasil:				
Para	Jan. 29-Feb. 11	2	4	
Pernambuco	Nov. 1-30		126	
anada:	1404. 1-30		120	
	Feb. 19-25	1		
Fernie			•••••	
Newcastle	Jan. 19-25			
Ottawa	Jan. 19-25	1		1
Vancouver	Jan. 1-31	3		ir
Victoria	Feb. 12-18	3		
chile:		1		
Valparaiso	Jan. 22-28	55	l	
hina.				
Hongkong	Jan. 15-21	2	2	
Shanghai	Jan. 23-29	ĺi	ลี เ	Deaths among natives.
olombia:	Jan. 20-25		•	Deaths among natives.
Cartagena	Jan. 15	I		Present.
	Jan. 15			Present.
Egypt:		l .	_	
Cairo	Jan. 22-Feb. 4	1	1	
rance:		l		
Paris	Feb. 5-11	1 2		
ndia:				
Bombay	Jan. 22-28	i	1	
ndo-China:	• car. 22 20		•	
Saigon	Jan. 16=22	13	3	
	Jan. 10=22	10	3	
ava: Batavia	Jan. 15-21	2		
	Jan. 15-21	2		
fexico:		l		
Aguascalientes	Feb. 5-18		8	
San Luis Potosi	Jan. 22-28	12	4	
Tampico	Feb. 10-20	17	4	
Portugal:			_	
Lisbon	Feb. 5-11	24		
Inssia:				
Riga	Jan. 29-Feb. 11	28		
Warsaw	Nov. 22-Dec. 17	20	9	
	NOV. 22-Dec. 17		•	
iam:	T 01 TH 05	_		
Bangkok	Jan. 21-Feb. 22	1	1	
pain:				
Madrid	Jan. 1-31		2	
Seville	Jan. 1-31	l <b></b>	8	
traits Settlements:			_	
Singapore	Jan. 8-14	1		
Singaporeurkey in Asia:		_		
Reimit	Jan. 29-Feb. 4	3		
		19	13	
anzibar	Dec. 19-22	19	13	

## Reports Received from December 31, 1910, to March 3, 1911.

[For reports received from June 25, 1910. to Dec. 30, 1910, see Public Health Reports for Dec. 30, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.						
Arabia: Bajil. Hodeida	Jan. 23		38	Present.						
MaskatAustria-Hungary			7	Two deaths not previously re-						
Croatia and Slavonia Maren Hungary	Dec. 4-17 Oct. 1-9	5 3	2	ported.  Total for Hungary, Nov. 27-Dec.						
Bulgaria Tartar-PazardjikVarna			2	17: Cases, 9; deaths, 3.  From steamship Bulgarie, 3 fatal cases having been reported on p. 1936, Vol. XXV.						
Ceylon: Colombo	Dec. 11-24	4	3	£,						

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

## Reports Received from December 31, 1910, to March 8, 1911.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Niuchwang	Aug. 1-Nov. 22			Occasional cases.
Shanghai	Aug. 1-31		. 1	Reported out of date.
Formosa	Nov. 20-Dec. 17	11	6	Mainly in Kelung and Taihoku.
Hawaii:	Fab or Man 0			1
DHonoluluIndia:	Feb. 25-Mar. 2	13	11	
Bombay	Nov. 23-Jan. 28	1	96	i
Calcutta	Nov. 13-Jan. 7		229	
Madras	Nov. 27-Jan. 21		5	•
Rangoon	Nov. 23-Jan. 28 Nov. 13-Jan. 7 Nov. 27-Jan. 21 Jan. 1-7		2	
Indo-China:	1	i		
Saigon	Dec. 12-Jan. 8		1	Matal for Italy Dec 97 Year 99
Italy				Total for Italy, Dec. 27-Jan. 28 Cases, 102; deaths, 15.
Provinces—			l	Cases, 102, deaths, 10.
Aquila	Dec. 4-17	4	1	
Aquila	Dec. 27-Jan. 30	5	2	
Caltanisetta	Dec. 4-10	1		
Caserta	Dec. 4-Jan. 14	19	3	
Catanzaro Lecce	Dec. 27-Jan. 6 Dec. 11-Jan. 30	2	.2	
Palermo—	Dec. 11-Jan. 30	111	13	
Palermo	Dec. 4-10	16	6	•
Insane asylum	Dec. 4-Jan. 6	24	6	
Rome		10	7	
Salerno	Dec. 11-Jan. 6	10		l e e e e e e e e e e e e e e e e e e e
apan				Total for Japan, Sept. 14-Nov. 30:
				Cases, 2,770; deaths, 1,923; including cases and deaths appearing on p. 1937, Vol. XXV.
	İ			cluding cases and deaths ap-
Aichi ken	Oct. 16-Nov. 30	3	3	pearing on p. 1937, vol. AAv.
Ehime ken	Sept 23-Nov 30	27	19	
Fukuoka ken	Sept. 23-Nov. 30 Sept. 30-Nov. 30	234	165	
Hiogo ken, Kobe	Sept. 12-Nov. 30	607	<b>39</b> 6	
Hiroshima ken	Sept. 12-Nov. 30 Sept. 25-Nov. 30 Oct. 2-Nov. 30	58	30	
Kagawa ken	Oct. 2-Nov. 30	293	201	
Kagoshima ken	Oct. 28-Nov. 30 Oct. 18-Nov. 30 Sept. 30-Nov. 30	4	3	
Kochi ken Kvoto fu	Cont 20 Nov. 20	70 143	42 119	
Kumamoto ken	Sept. 30-Nov. 30 Oct. 18-Nov. 30 Oct. 16-Nov. 30 Oct. 16-Nov. 30 Oct. 10-Nov. 30 Oct. 10-Nov. 30 Sept. 17-Nov. 30 Oct. 4-Nov. 30 Oct. 4-Nov. 30	19	11	· ·
Miye ken	Oct. 11-Nov. 30	8	5	
Nagasaki ken	Oct. 16-Nov. 30	26	11	Dec. 12-25, 5 cases, 1 death.
Nara ken	Oct. 3-Nov. 30	31	23	• • •
Oita ken	Oct. 10-Nov. 30	2	1.	
Okayama ken	Sept. 29-Nov. 30	71	49	
Osaka fu. Saga ken.	Oct 4 Nov. 20	951 51	692 31	
Shiga ken	Nov 20-30	7	6	•
Shimane ken	Nov. 20-30. Oct. 24-Nov. 30. Oct. 3-Nov. 30.	7	5	
Shimane ken Tokushima ken	Oct. 3-Nov. 30	59	37	
TOKYO IU	OCI. 18-NOV. 30	1	1	
Wakayama ken	Oct. 6-Nov. 30	57	44	
Yamaguchi ken	Oct. 12-Nov. 30	41	29	
ava: Batavia	Nov. 13-Jan. 14	18	4	Among natives.
	Sept. 11-Nov. 30	581	498	Among natives.
Soerobaya	Oct. 23-Dec. 17	19	13	
Corea:				•
Seoul	Oct. 26-Nov. 5	1	1	
ladeira				Total for Madeira, Nov. 16-Jan. 12: Cases, 1,646; deaths, 525; including report, page 1938, Volume XXV. Funchal dis-
		1	1	12: Cases, 1,646; deaths, 525;
			1	Volume VVV Funchel dis
		İ	1	trict Nov 16-Jan 21: Cases
			-	trict, Nov. 16-Jan. 31: Cases, 822; deaths, 238. Rural dis- tricts, Nov. 16-Dec. 31: Cases, 828; deaths, 267.
				tricts, Nov. 16-Dec. 31: Cases.
		- 1	i	828; deaths, 267.
Funchal	Nov. 16-Dec. 8	126	36	•
Calheta		1 .		
Camboo J. T. L.	Dec. 9-31	440		
Comoro dos Lobos	Nov 16-Dec 8	112	32	•
Comoro dos Lobos	Nov 16-Dec 8	54	20	•
Comoro dos Lobos	Nov. 16-Dec. 8 Nov. 16-Dec. 8 Nov. 16-Dec. 8 Nov. 16-Dec. 8 Nov. 16-Dec. 8			•

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

## Reports Received from December 31, 1910, to March 3, 1911.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Assadabad	Oct. 5-Nov. 8 Nov. 10	•	. 61	Present.
Enzeli	Nov. 8-25	. 9	ii	
Hamadan	Oot 6 Dec 2			Bazar.
Hamadan Kasri-Churine	Oct. 6-Dec. 3 Oct. 13-20	. 42	222	
Kerman	. Nov. 22-Dec. 24	. 197		
Kermanchah	Nov. 5-10	.	. 6	
Mohammerah Resht	Nov. 13-Dec. 5 Nov. 19-Dec. 3	. 11		
Mollag-Ali	Nov. 20	6		resent in all vinages in vicinity.
Turbat-i-Hidari	.   Oct. 10-Nov. 15	. 66	25	
Philippine Islands: Manila	Nov. 6-Dec. 31	. 9	6	Third quarter 1010: Cooks 105:
Maiiis	Nov. 6-Dec. 31	9	0	Third quarter, 1910: Cases, 195; deaths, 141.
Provinces	.			. Third quarter, 1910: Cases, 5,657;
Albay	Dec. 24-Jan. 14	10	1 ,,	deaths, 4,089.
Bulacan	Nov. 6-19	16		
Hoose Sur	Nov 6-1100 17	1 50	38	i <b>l</b>
Mindoro	Nov. 6-Dec. 10	24		
MindoroRizalUnion	Nov. 6-Dec. 3	4 3		
Russia	1404.0-12	3	.	Total for Russia, Nov. 20-Jan. 12:
				Cases, 1,221; deaths. 294. From May 8-Jan. 5: Cases, 216,780
		1		May 8-Jan. 5: Cases, 216,780 deaths, 100,971.
Baku government-				deaths, 100,971.
Baku	Nov. 6-Dec. 17		2	
Batum	Dec. 4-10	2		
Don territory Erivan government	Nov. 6-19 Nov. 6-Dec. 10	6	2	
		1 0	6	
Fergnana territory Kharkov government Kazan government Kherson government Kief government Kuban territory	Nov. 6-12	2 2		
Kazan government	Nov. 6-Jan. 7	2	1 4	
Kief government	Nov. 6-Dec. 17	39	14	1
Kuban territory	Nov. 6-13	4	4	
Lubin government	NOV. 20-20	ા	13	
Mohiley government Orenburg government	Nov. 6-19 Nov. 13-24	2 15	1 6	
Oufa government	Nov. 6-12	2	ĭ	1
Perm government	Nov. 20-26	1	·········	
Podolia government Rjasan government	Nov. 13–24 Nov. 6–12	7 2	1	
St. Petersburg government.	NOV. 6-12	2		1
St. Petersburg	Nov. 6-Dec. 31 Nov. 6-19	32	16	
Samara government	Nov. 6-19 Nov. 13-26	6 8	6	
Saratov government Siberia, eastern	Nov. 6-19	12	3	Vladivostok, Oct. 29-Nov. 13:
	1			Cases, 4; deaths, 17.
Syr Darya territory	Nov. 6-19	7	4	
Taurida government— Sebastopol	Nov. 13-Dec. 3	7	4	
Tambov government	Nov. 13-Dec. 3 Nov. 13-Dec. 10	86	34	
Tiflis government	Nov. 6-26	2		
Vitebsk government	Nov. 6-19 Nov. 6-12	3 2	2	•
Yekaterinoslav government	Nov. 6-Jan. 7	61	33	
Siam:				
BangkokStraits Settlements:	Nov. 6-Dec. 3	136	131	
Singapore	Dec. 25-31	1	1	
Zumotro.				<b>D</b>
Bambel	Dec. 29 Nov. 14	••••••		Present. Do.
Biagmoeti	Dec. 29			Do. Do.
Pengoeloedjahar	Dec. 29 Nov. 14			Do.
Pripoli:			j	
Tripoli Furkey:	Nov. 15-Dec. 8	37	37	
Adrianople vilayet	Nov. 21-Dec. 15	60	70	94 cases and 34 deaths reported,
	Now 00 I 10	644	500	94 cases and 34 deaths reported, p. 1940, Vol. XXV. Total from Sept. 13-Jan. 16:
Constantinople	Nov. 22-Jan. 16	841	529	Cases, 1,318; deaths, 793.
Saloniki vilayet	Dec. 11-31	50	25	, _,,,,

# CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued Reports Received from December 31, 1910, to March 3, 1911.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia:	,			
Bagdad vilayet	Nov. 20-Dec. 11	119	115	Total, Oct. 16-Jan. 16: Cases, 819 deaths, 723.
Basra	Nov. 6-26	10	9	,
Damascus	Feb. 3	13	3	Among pilgrims.
Mekka	Dec. 26-Jan. 28	153	142	
Samsoun	Nov. 20-Dec. 3	6	6	
Smvrna	Nov. 20-Jan. 28	321	199	
Trebizond	Nov. 20-Dec. 18	107	42	And vicinity.
Yembo	Jan. 7-12	24	21	
Zongouldak	Nov. 20-Dec. 16	9	6	

## YELLOW FEVER.

Brazil: Manaos Pars. Ecuador: Guayaquil. Honduras: Puerto Cortez. Venezuela: Caracas La Guaira. Macuto. Maiquetia.	Nov. 1-Jan. 31  Jan. 21-29  Dec. 4-Jan. 31  Dec. 1-15  Dec. 1-7	154 73 48 1 1	43 65 31 10 1	One fatal case on U.S.S. Marietta.  Nov. 22-Dec. 3, 5 deaths. Jan. 22-27, 1 fatal case in Canton, suburb.
Maiquetia	Nov. 29	1	•••••	

### PLAGUE.

A zores:		1	1	
Terceira	Dec. 24	1	i	Present.
Brazil:	. Dec. 24	-;	.	rresent.
Bahia	Oat 20 Dec 16	. 31	27	
Pernambueo	. Oct. 29-Dec. 10	. 31		1
Rio de Janeiro	. July 1-Oct. 15		. 12	
	. Nov. 1-2/	. 12	5	
Chile:		1		
Arica	Dec. 28-Jan. 12			Do.
Iquique	. Jan. 1–7	. 2		j
China:	1	I	1	f
Amoy			1	
Changehung	.  Jan. 1-7			Do.
Paoting-fu	Jan. 24			Do.
PekingShantung Province	Jan. 24	. 2		
Shantung Province	Jan. 15-Feb. 15		1,000	
Chefoo Tengchowfu Sioke	Jan. 15-Feb. 15	1	300	ľ
Tengchowfu	Feb 4	.	30	
Sioke	Dec 6-Ian 4	-	~	Present: in the interior 60 miles
DIORO	DOC. 0 - 0011. 1		1	from Amov.
SwatowTientsin	Ton 99	ì	l	Present in vicinity.
Tientsin	Top 91	•	4	Among Chinese
Manchuria	Jan. 21			
manenuria		-		Total for Manchuria, Oct. 25-Jan. 27: Cases, 1,043 Chinese, 32
	•	ĺ	ł	27: Cases, 1,043 Chinese, 32
	1	1	1	Europeans; deaths, 1,020 Chi-
	1	1		nese, 29 Europeans.
Buhedu		. 3		_
Chang Chuen	Jan. 7-16	. 100		
Dalny	Jan. 11-Feb. 8	. 66	60	
Fuchiatien	1	.		Nov. 8-Jan. 28: Deaths, 3,402.
Hailar	Dec. 6	. 1	1	, -,
Harbin		1	I	Nov. 8-Jan. 28: Deaths, 831 Chi-
		1		nese, 18 Europeans.
Hulan	Dec. 31	1	1	Present.
Kirin	Ion 7			Do.
Loshagoon	Dec 27			D0.
Manahuria station	Dec. 7 00	85		
Manchuria, station	Dec. 1-20	89	95	
Mukden	Jan. 2-10	. გამ	63	
Tieling	Jan. 14		1	
Tchjalainarskiy	NOV. 11-Dec. 3	104	106	Cases previously reported, 14;
	l			deaths, 12.
Tchjalantum	Nov. 21-Jan. 14		42	
Turchiha	Oct. 30	.1 4	4 1	

## ${\bf CHOLERA,\ YELLOW\ FEVER,\ PLAGUE,\ AND\ SMALLPOX-Continued.}$

## Reports Received from December 31, 1910, to March 3, 1911.

## PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				•
Babahovo	Dec. 16-Jan. 15	16	4	
Duran	Dec. 16-Jan. 31	10	4	
Guavaguil	Nov. 1-Jan. 31		183	
Milagro	Jan. 1–31	7	5	
Egypt: Alexandria	Nov. 29-Jan. 15	6	2	
Provinces— Assiout	Dec. 1-Feb. 2		40	
Assouan	Jan. 1-Feb. 1		4	
Behera	Jan. 1-17		-	
Galioubeeh	Nov.'22-Dec. 2	ĭ	1	
Gizeh	Jan. 1-Feb. 2	9	5	
Kena	Jan. 14-Feb. 2	20	12	
Menouf	Dec. 2-Jan. 27	32	16	
Hawaii:		İ		
HonokaaIndia:	Jan. 31	2	2	
Bombay	Nov. 23-Jan. 28	 	140	
Calcutta	Nov. 13-Dec. 31		83	
Kurrachee	Nov. 19-Jan. 14	88	86	1
Madras	Dec. 11-17		1	
Rangoon	Nov. 20-Jan. 14		16	
Bombay Presidency and	Oct. 29-Dec. 31	13,828	9,321	
Sind.				
Madras Presidency	Oct. 23-Dec. 31	4,012	3,194	
Bengal	Oct. 29-Dec. 31	6,712	5,222	
United Provinces	Oct. 29-Dec. 31	24,858	20,883	1
Punjab Burma.	Oct. 29-Dec. 31 Oct. 29-Dec. 31	11,725 801	8,752 745	
Central Provinces	Oct. 29-Dec. 31	8,821	6,677	
Coorg	Oct. 29-Dec. 31	16	7	
Mysore State	Oct. 29-Dec. 31	5,561	3,938	
Hyderabad State	Oct. 29-Dec. 31	3,536	2,997	
Central India	Oct. 29-Dec. 31	2,293	1,839	
Rajputana and Ajmer-	Oct. 29-Dec. 31	5,966	4, 525	
Merwara.	37 0 D. 01			·
Kashmir	Nov. 6-Dec. 31		24 33	
North West Province	Dec. 10-31	38	33	
Grand total		88, 209	68, 157	
Indo-China:				
Saigon	Nov. 14-Jan. 8	2	2	
MBUMUS	Sept. 30-Dec. 1	351	200	
New Caledonia:		i	İ	
Noumea	Sept. 17			Present.
Peru:	37 1 00	۱ .		
Arequipa Department	Nov. 1-30	4	2	Dec. 17-Jan. 13, 9 cases, 3 deaths
Mollendo	Nov. 1-Jan. 14			100. 17-7am. 15, 9 cases, 5 desais
Lambayeque Department.	Nov. 1-30			
Libertad Department	Nov. 1-30	41	15	Dec. 10, still present in Chicam
Elbortata Bopartamont	1.0			Valley, near Truxillo, Sala
		l		verry, Jan. 1-31, 5 cases,
l l		ł		deaths. Mar. 1, epidemic.
Lima Department	Nov. 1-Jan. 14	9	7	Valley, near Truxillo. Sala verry, Jan. 1-31, 5 cases, deaths. Mar. 1, epidemic. At Lima Dec. 11-Jan. 14, 10 cases 2 deaths.
Piura Department	Nov. 1-30	13	7	z deams.
Russia:	1407.1-30	10		
Odessa	Jan. 1	1		
Astrakhan Government—	•	_		
A bil-Isken	Nov. 22-29	4	4	
Kirghiz Steppe Kolden	Dec. 17-Jan. 29	82	57	
Kolden	Dec. 6-13	8 5	3	
Kolybai	Dec. 10-13		1	
Kulken Island	Oct. 13-Nov. 4	5	5 5	
Nauraali-Tchaygal Neuren	Nov. 23–29 Nov. 17–21	5 1	1	
				Total from Oct. 23-Nov. 24
				Cases, 28; deaths, 5.
	•••••	i i		
Trans-Caucasia	Nov. 23	1	1	, , ,
Trans-Caucasia  Petrovosk  Sanitza-Olivianna	Nov. 23	1 1	1	
Trans-Caucasia  Petrovosk  Sanitza-Olivianna  Baku	Nov. 23 Nov. 22 Dec. 17	1 1	1 1	
Trans-Caucasia	Nov. 23 Nov. 22 Dec. 17 Dec. 17	1 1 1	1 1 1	,
Trans-Caucasia  Petrovosk	Nov. 23 Nov. 22 Dec. 17	1 1 1	1 1	
Trans-Caucasia	Nov. 23	1 1 1	1 1 1 1	
Trans-Caucasia  Petrovosk	Nov. 23 Nov. 22 Dec. 17 Dec. 17 Nov. 26-Dec. 9 Nov. 27-Dec. 3	1 1 1	1 1 1	

Place.

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

## Reports Received from December 31, 1910, to March 8, 1911.

## PLAGUE-Continued.

Date.

Cases. Deaths.

Remarks.

			_	
(Primided	Feb. 8	1	. 1	
Trinidad Turkey in Asia:	reo. 8		-  4	·
Jiddah	Jan 15	. 1	1	
Venezuela:	Jan 15	1 1		-
Caracas	Nov. 9	1	1	. Present.
Catavas		1	1	
	SMAL	LPOX.	·	
		Ī	1	
Abyssinia:	i			
Adis Abada	Nov. 20-Jan. 28			. Present.
Arabia:	i _			i
Aden	Jan. 9-16	11	3	
Berbera	Dec. 9–Jan. 9	<b></b> -		. Epidemic.
Bulhar	Jan. 25			. Present.
Maskat	Jan. 1-21	3		. 1 case from a British naval
7 atta	Ion 0"		į.	vessel.
Zeila	Jan. 25	• • • • • • •		. Present.
Argentina:	Oct 1 Nov 20		. 9	
Buenos Aires	Oct. 1-Nov. 30 Oct. 1-Nov. 31	• • • • • • •		
Rosario	. Oct. 1-NOV. 31	• • • • • • • •	7	
Australia:	1		1	Cont 1010 1 0000 00 5 - 17-
Adelaide	-	•••••		Sept., 1910, 1 case on s. s. Ka-
Dawho doo.			1	zembe from Singapore.
Barbados:	Ion 14	1		From steemship Com for To
Bridgetown	. Jan. 14	1		From steamship Cara from Rio
Provil.			1	de Janeiro.
Brazil: Bahia	Oct 20_Dec 16	54	25	1
Para	Nov 27-Jan 29	34	8	1
Pernambuco	Oct. 29-Dec. 16 Nov. 27-Jan. 28 July 1-Oct. 31	77	573	
Rio de Janeiro	Nov. 14-27	3	313	
Canada:		u		
British Columbia—	1			
Victoria	Dec. 11-Feb. 11	55		
New Brunswick—	Decili remili			
Moncton	Jan. 29-Feb. 11	15		
Newcastle	Dec. 18-Feb. 18	8		Jan. 14-Feb. 25, in vicinity.
Nova Scotia—		- 1		
Halifax	Jan. 1-14	3		
Louisburg	Dec. 25-Feb. 4	9		
Sydney		2		
Ontario—		1		
Cornwall	Jan. 1-21	3		
Ottawa	Dec. 18-Feb. 18	6		
Quebec—	1	ı		
Quebec	Feb. 12-18	1		
eylon:				•
Colombo	Nov. 13-Jan. 7	25	6	
chile:	-			
Coquimbo Province	Dec. 13-30		••••••••	Present in two localities.
Iquique	Nov. 13-19	ا و ی	1	
Punta Arenas	Nov. 1-30	1	• • • • • • • • •	
Talcahuano	Nov. 13-Dec. 17	23		Dardle and an "
Valparaiso	Nov. 20-Jan. 14	393		Deaths not generally reported Jan. 8-14, two deaths.
hino		l		Jan. 8-14, two deaths.
hina:	Dec 11 17	26		
Canton	Dec. 11-17		3	Drocont among radios
Chefoo	Dec. 11-17		• • • • • • • • •	Present among natives.
Hongkong	Nov. 13-Dec. 31	7	3	Present.
Hongkong Nanking	Dec. 4-Jan. 7 Nov. 20-Jan. 28	'	3	Do
Shanghai	Nov. 21-Jan. 23	27	117	Do.
Swatow	Jan. 1-7	21	117	Deaths among natives.  Present 25 miles inland. Jan.
U # 400 #	Jan. 1-1	••••••		21-28, present in vicinity.
Tsingtau	Jan. 8-28	11 .		21-20, present in vicinity.
evnt:		**		
gypt: Alexandria	Nov. 1-Dec. 31	1	2	
Cairo	Dec. 3-Jan. 21	7	3	
Port Said	Dec. 17-23	il.		
rance:		- 1.		
Paris	Dec. 3-Jan. 28	33 .		
ermany				Total for Germany, Dec. 4-Jan. 7,
				cases 11.
ibraltar	Jan. 16-Feb. 5	3 .		<del></del>
reat Britain:		- 1		
Dublin	Jan. 15-21	1 .		
Leith	Dec. 11-17			From a steamship from Oporto.
Liverpool	Jan. 29-Feb. 4	1 .		• •
•	- · · · · · · · · · · · · · · · · · · ·	- 1-	,	

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

## Reports Received from December 31, 1910, to March 3, 1911.

## SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii: Honolulu	Jan. 3–Feb. 18	4		Jan. 3, 3 cases on s. s. Kiho Maru from Manzanillo. Feb. 18, 1 case on s. s. Chiyo Maru from Yokohama.
Maui— Puuene Waikapu	Jan. 24	39		
India: Bombay. Calcutta Madras	Dec. 6-Jan. 28 Nov. 6-Jan. 7 Nov. 20-Jan. 14	72	. 19 . 13 . 33	
Rangoon	Nov. 20–Jan. 14 Nov. 20–Jan. 14 Nov. 14–Jan. 15	31	14	
Italy: Naples. Palermo	Dec. 4-Feb. 11 Jan. 8-Feb. 4	1	139	
Turin	Jan. 8-14	1		From a Chimoso from Nove
KobeJava:	Dec. 26-Jan. 1	2		From s. s. Shimosa from New York via ports.
Batavia	Dec. 26-Jan. 14 Dec. 4-Jan. 28	3		
Manchuria: Dalny	Nov. 27-Dec. 3	1		
Aguascalientes Chihuahua Guadalajara	Dec. 25-Feb. 14 Jan. 30-Feb. 5 Jan. 29-Feb. 4	1 1	15 1 1	
Mexico	Dec. 11-Jan. 7 Dec. 19-25 Nov. 13-Jan. 21	10 72	3 1 40	Jan. 26, present in the interior of the State.
Tampico	Dec. 2-Feb. 11	83	19	the State. Present in Dona Cecilia, La Barra, and Tancol.
Netherlands: Rotterdam New Zealand:	Dec. 11-Jan. 28	4	<b></b>	
Lyttelton Peru:	Dec. 30	1		On s. s. Knight of the Garter from Karotzu, Japan.
Salaverry Truxillo Philippine Islands	Jan. 25–31 Dec. 19.	1	2	Jan. 10-Feb. 7 present. Dec. 19-Jan. 7 present in vicinity. Third quarter, 1910: Cases 11, deaths 0.
Portugal: Lisbon	Dec. 3-Feb. 4	155		Oct. 30-Dec. 24, deaths 43.
Libau	Dec. 5-Jan. 23 Nov. 13-Jan. 28 Nov. 20-Jan. 21 Dec. 11-Jan. 28	6 85 10	4 45	
Riga St. Petersburg Warsaw Siberia:	Dec. 11-Jan. 28 Nov. 13-Jan. 14 Oct. 9-Dec. 3	41 235	65 10	Oct. 1-Nov. 30, 58 deaths.
Vladivostok Spain:	Nov. 22-Dec. 28	8	2	
Barcelona	Dec. 5-Jan. 8 Nov. 1-Dec. 31 Nov. 27-Feb. 4	14	13	
Straits Settlements: Penang Singapore	Nov. 6-Jan. 7 Nov. 13-Jan. 7	275 22	120 9	
Switzerland: Bern, CantonTurkey:	Dec. 12-Jan. 14	7		
Constantinople Turkey in Asia Beirut Smyrna	Dec. 19-25 Dec. 4-Jan. 28 Dec. 18-24	13	1	,
Uruguay: Montevideo	Oct. 1-Nov. 30	25	6	
Zanzibar: Zanzibar	Oct. 31-Dec. 18	45	34	

# MORTALITY. WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

			2 (41)					Deat	hs fr	om-	_			
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.
Leith Libau London Lyon Magdeburg Manaos Do Manchester	do	40,000  156,077 573,984 326,351 591,272 80,000 398,421 90,050 575,545 977,822 253,000 297,780 246,827 720,030 950,610 682,953 847,796 210,000 288,755 516,769 191,310 1,000,000 402,928 366,527 47,300 402,928 366,527 111,407 414,800 897,178 165,000 336,488 284,502 38,382 48,504 108,644 498,027 38,382 48,504 108,644 498,027 585,743 87,826 90,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716 500,000 7,645,716	266 477 855 185 788 3900 206 146 157 1781 1464 1522 60 260 260 277 1181 1177 1181 1155 1394 146 66 43 1555 200 124 46 1111 112 1357 477 220  777 888 159 157 34 221 877 888 1597 187 889 187 187 221 220 271 271	2 2 4 4 36 3 32 15 15 11 18 12 2 6 27 20 13 9 1 17 23 11 7 7 11 21 11 21 10 10 10 14 4 4 4 4 4 4 4 4 4 33 3 3 13 2 6 6 3 3 3	45 11 11 11 15	21	16	1	3 4	6 3 3 1 1 3 3 1 1 2 2 3 3 1 1 1 1 2 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 1 2 2 1 1 1 2 2 4 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 1 1 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10
Mannheim Moncton Monterey Montreal Munich Nagasaki Nagoya Naples Newcastle Nottingham Do Ottawa Palermo	Feb. 4 Feb. 25 Jan. 28 Jan. 29 Jan. 29 Jeb. 12 Feb. 25 Feb. 4 Feb. 11 Feb. 25 Feb. 11	194,000 13,500 100,000 450,000 597,000 178,074 402,101 593,729 4,500 260,000	43 5 43 149 220 38 163 1 97 100 28 198	8 15 38 3 6				3		1 1 1 1 7 2	:: <u>:</u> :	1 1 1 2 2 2	1 4 1	2 2

## MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.   Week ended						Deaths from-									
Do.         Feb. 11         83         6         4         2         8         3         9         8           Plymouth.         Feb. 18         124,180         55         209         8         3         9         8           Por Elizabeth         Jan. 21         32,248         12         1         5         5           Do         Jan. 28         9         8         3         9         8           Prague         Feb. 4         235,556         80         16         1         1         1           Quebec         Feb. 25         85,000         2         1         1         1         1           Saigon         Jan. 22         206,000         1         3         3         1	Cities.			deaths from all	Tuberculosis.	Plague.	Cholers.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Tripoli	Do Paris. Plymouth Port Elizabeth Do Prague. Quebec. Saigon. St. John San Luis Potosi. Santa Cruz de Tenerife Santiago de Cuba. Sheffield Do Singapore. Southampton Stettin Do Tampico Tarragona Trieste Tripoli Valencia Valencia Valencia Venice Do Do Do Usenna Vigo. Warsaw Do Do Do Do Do Do Do Do Do Do Do Do Do	Feb. 11do	2,776,393 124,180 32,248 235,556 85,000 206,000 31,000 82,946 46,000 53,614 472,000 271,060 224,033 23,452 20,400 224,080 42,000 240,000 215,879 184,325 2,030,834 40,000 781,179	83 1,075 12 9 80 2 20 14 20 165 195 173 36 67 67 67 67 67 83 22 110 84 93 694 23 303 326 303 326 301 40	8 6 6 209 1 1 16		3	4	3 4	2	1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	1  2  3  176 127	1 1 1 1 2 2 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 2 4 4 6

# MORTALITY-FOREIGN AND INSULAR-COUNTRIES AND CITIES (untabulated).

Brazil—Pernambuco.—Month of November, 1910. Population, 210,000. Total number of deaths from all causes 718, including smallpox 126, tuberculosis 128.

CHILE—Punta Arenas.—Month of December, 1910. Population, 12,000. Total number of deaths from all causes 31, including tuberculosis 4.

East Africa—Lourenco Marquez.—Month of December, 1910. Population, 10,000. Total number of deaths from all causes 52, including tuberculosis 16, typhoid fever 1.

EGYPT—Alexandria.—Month of December, 1910. Population, 420,000. Total number of deaths from all causes 960, including diphtheria 11, smallpox 1, tuberculosis 76, typhoid fever 10.

GREAT BRITAIN.—Week ended February 11, 1911.

England and Wales.—The deaths registered in 77 great towns correspond to an annual rate of 16 per 1,000 of the population, which is estimated at 17,160,256.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 19.6 per 1,000 of the population, which is estimated at 1,163,596. The lowest rate was recorded at Sligo, viz, 4.8, and the highest at Clonmel, viz, 46.2 per 1,000.

Scotland.—The deaths registered in 8 principal towns correspond to an annual rate of 18.2 per 1,000 of the population, which is estimated at 1,917,875. The lowest rate was recorded at Aberdeen, viz, 12.1, and the highest in Dundee, viz, 24.4 per 1,000. The total number of deaths from all causes was 670, including diphtheria 9, measles 4, scarlet fever 8, typhoid fever 2.

ITALY—Milan.—Month of January, 1911. Population, 900,000. Total number of deaths from all causes 185, including diphtheria 2, measles 20, scarlet fever 1, tuberculosis 153, typhoid fever 1.

Russia—Riga.—Month of November, 1910. Population, 355,000. Total number of deaths from all causes 706, including diphtheria 17, measles 4, scarlet fever 44, smallpox 20, typhus fever 1, typhoid fever 4.

By authority of the Secretary of the Treasury:

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