

# PUBLIC HEALTH REPORTS

VOL. 32

APRIL 13, 1917

No. 15

## TYPHOID FEVER.

### PREVALENCE IN CITIES DURING 1916.

The table which follows shows the recorded prevalence of typhoid fever during the year 1916 in cities of the United States having over 100,000 population. The cities have been divided into groups according to their populations and arranged in each group in the order of the prevalence of the disease as indicated by the recorded cases. Data are given for all the cities of the United States having an estimated population of 100,000 or over as of July 1, 1916, with the exception of Des Moines, Iowa, Cambridge, Mass., and Memphis, Tenn. Typhoid fever is not a notifiable disease in Iowa; therefore there is no record of its prevalence. Nor has it been possible to obtain data for Cambridge or Memphis.

City.	Indicated case rate per 1,000 inhabit- ants.	Indicated fatality rate per 100 cases.	Cases reported.	Deaths regis- tered.	Indicated death rate per 1,000 inhabit- ants.	Popula- tion July 1, 1916 (esti- mated by U. S. Census Bureau).
<b>Over 500,000 inhabitants:</b>						
Boston, Mass.	0.245	14.05	185	26	0.034	756,476
Los Angeles, Cal.	.250	11.11	126	14	.028	503,812
New York, N. Y.	.289	13.80	1,617	215	.038	5,602,841
Cleveland, Ohio.	.310	17.22	209	36	.053	674,073
Chicago, Ill.	.414	12.48	1,024	129	.052	2,497,722
Philadelphia, Pa.	.433	17.30	740	128	.075	1,709,518
Pittsburgh, Pa.	.473	18.25	274	50	.086	579,090
Detroit, Mich.	.729	20.86	1,417	87	.152	571,784
St. Louis, Mo.	.766	12.24	580	71	.094	757,309
Baltimore, Md.	1.316	13.66	776	106	.180	589,621
<b>From 300,000 to 500,000 inhabitants:</b>						
Seattle, Wash.	.192	14.93	67	10	.029	348,639
Cincinnati, Ohio.	.219	13.27	98	13	.032	410,476
Jersey City, N. J.	.245	28.00	75	21	.069	306,345
Newark, N. J.	.308	17.46	126	22	.054	408,804
San Francisco, Cal.	.384	8.99	178	16	.035	463,516
Minneapolis, Minn.	.498	11.60	181	21	.055	363,454
Buffalo, N. Y.	.536	20.32	1,251	51	.100	468,558
Washington, D. C.	.846	14.94	308	46	.126	363,980
New Orleans, La.	1.006	23.26	374	87	.234	371,747
Milwaukee, Wis.	1.171	12.52	511	64	.147	436,535
<b>From 200,000 to 300,000 inhabitants:</b>						
St. Paul, Minn.	.210	23.08	62	12	.049	247,232
Portland, Oreg.	.220	20.00	65	13	.044	295,463
Kansas City, Mo.	.386	27.83	115	32	.107	297,847
Rochester, N. Y.	.386	13.13	199	13	.051	256,417
Louisville, Ky.	.439	26.67	105	28	.117	236,910
Denver, Colo.	.502	14.50	131	19	.073	290,900
Providence, R. I.	.533	9.49	136	13	.051	254,900
Columbus, Ohio.	.856	15.76	184	29	.135	214,878
Indianapolis, Ind.	3.095	8.63	841	73	.269	271,708

1 The health officer states that cases are known not to be completely reported.

City.	Indicated case rate per 1,000 inhabit- ants.	Indicated fatality rate per 100 cases.	Cases reported.	Deaths regis- tered.	Indicated death rate per 1,000 inhabit- ants.	Popula- tion July 1, 1916 (esti- mated by U. S. Census Bureau).
From 100,000 to 200,000 inhabitants:						
Scranton, Pa.	0.116	47.06	17	8	0.054	146,811
Spokane, Wash.	.180	11.11	27	3	.020	150,323
Paterson, N. J.	.181	20.00	25	5	.036	138,443
Worcester, Mass.	.220	16.67	36	6	.037	163,314
Omaha, Nebr.	.248	17.07	41	7	.042	165,470
Bridgeport, Conn.	.288	31.43	35	11	.090	121,579
Syracuse, N. Y.	.289	42.22	45	19	.122	155,624
Springfield, Mass.	.302	15.63	32	5	.047	105,942
Tacoma, Wash.	.310	8.57	35	3	.027	112,770
New Haven, Conn.	.374	21.43	56	12	.060	149,685
Hartford, Conn.	.433	15.58	48	7	.063	110,900
Trenton, N. J.	.439	6.12	49	3	.027	111,593
Lowell, Mass.	.539	21.31	61	13	.115	113,245
New Bedford, Mass.	.542	7.81	64	5	.042	118,188
Houston, Tex.	.561	47.62	63	30	.267	112,307
Oakland, Cal.	.590	6.72	119	8	.040	198,604
Lawrence, Mass.	.686	10.14	69	7	.070	100,560
Atlanta, Ga.	.750	24.48	143	35	.184	190,558
Camden, N. J.	.819	13.79	87	12	.113	106,233
San Antonio, Tex.	.840	17.31	104	18	.145	123,831
Albany, N. Y.	.845	9.09	88	8	.077	104,199
Salt Lake City, Utah.	.852	12.00	100	12	.102	117,360
Youngstown, Ohio.	.969	25.71	105	27	.249	108,335
Dayton, Ohio.	1.014	20.16	120	26	.204	127,294
Grand Rapids, Mich.	1.099	14.18	141	20	.156	128,201
Fort Worth, Tex.	1.224	14.84	128	19	.182	104,562
Dallas, Tex.	1.389	19.65	173	34	.273	124,527
Richmond, Va.	1.430	16.52	224	37	.238	150,667
Toledo, Ohio.	1.457	15.77	279	44	.280	191,654
Lynn, Mass.	1.594	5.19	154	8	.078	102,486
Fall River, Mass.	1.714	6.36	220	14	.109	128,366
Reading, Pa.	1.801	10.15	197	20	.183	109,891
Nashville, Tenn.	2.469	12.11	289	35	.299	117,057
Birmingham, Ala.	4.869	9.15	885	81	.446	181,762

<sup>1</sup> The health officer states that cases are known not to be completely reported.

## ANOPHELINE MOSQUITOES.

### THEIR DISTRIBUTION AND INFECTION UNDER FIELD CONDITIONS.

By M. BRUN MITZMAIN, Technical Assistant, United States Public Health Service.

In a series of studies, previously reported by the writer,<sup>1</sup> it was found practicable to establish the period at which infected anophelines made their initial appearance in spring.

The present investigations, undertaken primarily for the purpose of ascertaining the relative distribution of anophelines under field conditions, included also an effort to determine, for a particular locality, the seasonal period at which parasitism of mosquitoes could no longer be demonstrated.

The region selected (Talladega Springs, Ala., about 34° N. latitude) was previously investigated as to its parasite index, the maximum of which was ascertained to be 18.6 per cent among 200 persons. Here, beginning September 17, and extending to November 15, anopheline mosquitoes were collected extensively, special attention being given in this regard to habitations known to harbor malaria in either acute or chronic form.

<sup>1</sup> Mitzmain, Public Health Reports, July 16, 1915, *Anopheles as a Winter Carrier of Plasmodium—The Mosquito as a Prophylactic Indicator*, pp. 2117-2121.

*Relation of A. punctipennis and A. quadrimaculatus to the environments in which they are found.*—It has been previously observed by Carter<sup>1</sup> that *A. punctipennis* is not found commonly in human habitations in the daytime (at least during the summer) and is probably not as important a factor in malaria dissemination as is *A. quadrimaculatus*.

It has been suggested that *A. punctipennis* is of but slight importance because of its remote associations with man; that it is rarely or never found in houses, thus having but limited opportunity to convey infection.

It has been definitely proved that, under experimental conditions, *A. punctipennis* may serve as a vector of malaria; there remains to be determined whether conditions exist in nature in the presence of which this insect may be of epidemiological significance. For this study, a total of 1,377 specimens of two species of *Anopheles*, namely, *A. quadrimaculatus* and *A. punctipennis*, were collected during the period of September 18–November 15, 1916. The mosquitoes were captured with the aid of an electric flashlight by using Griffitt's mosquito collecting device. When a convenient number of specimens were assembled they were transferred into a copper-screened wooden cage made for this purpose. As many as 200 specimens could be transported simultaneously in this manner and held in the collecting cage until ready for examination. Water was supplied in a gauze-covered cotton pad placed under the cage and the mosquitoes were observed to obtain moisture by piercing the meshes of the pad. These moistened pads also served to cool the air in the container en route, when the cages thus provided were forwarded by post to the New Orleans laboratory, a distance of 400 miles. At least 85 per cent of the specimens arrived in an uninjured condition, suitable for dissecting.

The temperature of the region investigated is represented in the following table:

TABLE 1.—Temperature records, Talladega Springs, Ala.

Month.	First week.		Second week.		Third week.		Fourth week.		Fifth week.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1916.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.
September.....	34.5	18.0	34.0	13.0	29.5	10.0	32.0	12.0	22.5	7.5
Mean.....	33.0	19.5	30.5	18.5	26.5	13.0	30.5	15.5	22.0	10.0
October.....	29.0	9.0	30.5	7.0	30.5	1.5	25.0	−1.5	25.5	8.5
Mean.....	26.0	7.0	22.5	11.0	23.5	12.0	22.0	3.5	24.0	11.0
November.....	25.5	4.0	25.5	4.5	18.0	−6.5	18.0	−5.0	15.5	7.0
Mean.....	24.0	5.5	22.0	8.5	13.0	−2.0	14.5	3.5	12.5	11.0

Monthly rainfall in September, 1916, 5.12 inches; in October, 1916, 0.88 inch; and in November, 1916, 3.58 inches.

<sup>1</sup> Carter H. R. (1916) Malaria Survey of Impounded Waters, Southern Medical Journal, Vol. IX, No. 8, p. 709.

The following-named environments were daily inspected during this time: Inside of dwellings, under dwellings, privies, vacated buildings, cattle sheds, horse and mule sheds, fowl roosts, and wagon and tool sheds. The following table gives the distribution of the collections made, according to date and place:

TABLE 2.—Daily record of the *Anopheles* collected in the region investigated Sept. 18—Nov. 12, 1916.

Date.	Inside of dwellings.		Under dwellings.		Privies.		Vacated buildings.		Cattle sheds.		Horse and mule sheds.		Fowl roosts.		Wagon and tool sheds.		In covered spring.		Daily totals.		Total.
	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>	
1916.																					
Sept. 18.	3	9					17		59	67			20	4	4				103	80	183
19.		5	1	3		6	23		24	30				2	10	12			54	58	112
20.	1	5			1	9	18	1	40	16			7	1					79	25	104
21.					7	2	24	5	12	1									38	20	58
22.	5	1				8	7		10				6						30	1	30
23.						9	26		45	26				1	10	5			91	37	128
24.		5				5	9	2	37	3									53	19	71
25.		4				10	1	1	38	22					8	3			78	37	115
26.	2	2				5	1	1	15	5			2		4				49	11	60
27.						6	2		26	3					2				55	19	75
28.	1		9		6	7	9	1	3	10	3				3	1			10	28	38
29.		5	1	1	1	7			8	12	1	1							12	15	27
Oct. 30.		1	1	1	1		2												8	10	18
31.			6												2	9			2	24	26
1.	1	4			2	1	1	1	17	1									16	4	20
2.									1												
3.	1	1							1										39	7	46
4.	1	4	1	1	1	2		1	29	4	2				5				20	6	26
5.	1	2	2						6	1									38	8	46
6.	2					5	2	2	17	1									20	6	26
7.		2				8			13	3			1						23	5	28
8.						2			14	2					2				10	2	12
9.						3			5	1									25	3	28
10.	1	1				6	3	6	3					1					22	5	27
11.						3													11	6	17
12.						1													8		8
Nov. 13.	4	4																			
14.																					
15.																					
16.																					
17.																					
18.	4	4																			
19.																					
20.																					
21.																					
22.																					
23.																					
24.																					
25.																					
26.																					
27.																					
28.																					
29.																					
30.																					
Total.	26	60	65	40	89	42	236	17	419	234	12	6	37	8	50	31	5	939	438	1,377	

The table presents the following summary:

	<i>A. punctipennis.</i>	<i>A. quadrimaculatus.</i>
Inside of dwellings.....	26	60
Under dwellings.....	65	40
Privies.....	89	42
Vacated buildings.....	236	17
Cattle sheds.....	419	234
Horse and mule sheds.....	12	6
Fowl roosts.....	37	8
Wagon and tool sheds.....	50	31

It is indicated that in the three sources of direct human influence, namely, inside dwellings, under dwellings, and in privies, the last produced the greatest number of specimens of *A. punctipennis*. This

species comprised less than one-third (30 per cent) of the catch in houses, while under dwellings 62 per cent of the mosquitoes collected proved to be *A. punctipennis*. That the preponderant numbers of *A. punctipennis* infesting houses are found usually in an engorged state resting under the flooring of dwellings, is interesting. It has been observed by service officers, conducting malarial surveys, that although *A. punctipennis* rarely bites while inside a dwelling, it is found to attack persons seated on the porch or gallery of the house, after which these mosquitoes seek rest, presumably under the house in preference to the interior. Mr. Le Prince (in a personal communication) reports as follows: "While the occurrence of engorged *A. punctipennis* in bed rooms is relatively rare it has been observed in the same regions that *A. punctipennis* frequently bites persons resting on the house porch." This is not an unusual habit of an anopheline mosquito. Ross<sup>1</sup> states that *Anopheles* (*Pyretophorus*) *costalis*, a malaria carrier incriminated experimentally in Mauritius, prefers verandas to inner rooms and also bites in the open.

The presence of blood-engorged specimens of *A. punctipennis* in houses and privies justifies the assumption that the source of the blood was probably human, and suggests an active agency in malaria dissemination.

Of the material collected it was feasible to dissect and examine 709 specimens which had been transported from time to time to the New Orleans laboratory and kept three to five days to permit blood-engorged mosquitoes to digest the last blood meal. The first two infected specimens were seen early in the investigation: A specimen of *A. quadrimaculatus*, on September 21 (collected September 18), and a specimen of *A. punctipennis* examined on September 29 (collected September 26). The first appeared with three typical oocysts one-half to three-fourths grown ( $35\mu$ – $45\mu$  in size) on the caudal end of the midgut. The development in these oocysts had not reached the sporoblastic stage and no malarial pigment was observed. One oocyst containing characteristic granules was seen distinctly projecting from the stomach wall. All of the six lobes of the salivary glands of this mosquito were normal in appearance. The second infected mosquito was found September 29, and proved to be a specimen of *A. punctipennis*. In this specimen only a single oocyst was located. It contained a small amount of malarial pigment and appeared to be less than six days in growth—in size nearly  $35\mu$ . The salivary glands in this mosquito were likewise uninfected.

An effort was made in this region of Alabama to determine when malaria ceased to exist in a transmissible form before the termination of the active period. For this purpose collections were made from as many houses as possible where known cases of malaria had been ob-

---

<sup>1</sup> Ross, R. (1910), *The Prevention of Malaria*. Murray, London, p. 635.

served. Finally, toward the end of October, attention was concentrated on a particular locality, heavily infested with anophelines, and specifically on a plantation, the residents of which were clinically ill of the disease. An interesting situation was presented in the finding of the nine members of this family with malaria, both clinically and microscopically. Thirty-three specimens of anophelines were taken from this house and examined during the period between October 26 and November 21. Some of these were retained under laboratory conditions for an additional two weeks to afford an opportunity for complete parasite development. One infection was noted in a specimen of *A. quadrimaculatus* of this series examined on November 15. A single oocyst apparently of stunted development (size 35–40 $\mu$ ) was observed, but no other evidence of infection was presented. The oocyst was recognized as similar in character to those seen in mosquitoes kept in the laboratory at low temperatures for two months or longer, and which were observed not to develop to maturity during this period.

# PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

## UNITED STATES.

### CEREBROSPINAL MENINGITIS.

State Reports for February, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Virginia—Continued.</b>	
Alameda County—		Halifax County.....	1
Alameda.....	1	Henrico County.....	1
Fresno County—		Lee County.....	2
Clovis.....	1	Loudoun County.....	1
Kern County.....	1	Montgomery County.....	2
Solano County.....	1	Pittsylvania County.....	2
		Rappahannock County.....	1
<b>Total.....</b>	<b>4</b>	Tazewell County—	
<b>Virginia:</b>		Pocahontas.....	1
Accomac County.....	1	Wise County.....	1
Appomattox County.....	2	Wythe County—	
Floyd County.....	1	Wytheville.....	1
Grayson County.....	2	<b>Total.....</b>	<b>19</b>

City Reports for Week Ended Mar. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	12	1	Montclair, N. J.....	9	.....
Boston, Mass.....	3	2	Newark, N. J.....	1	1
Bridgeport, Conn.....	2	.....	New Haven, Conn.....	1	.....
Canton, Ohio.....	.....	1	New York, N. Y.....	8	10
Chicago, Ill.....	2	.....	Philadelphia, Pa.....	24	10
Cleveland, Ohio.....	8	5	Pittsburgh, Pa.....	3	.....
Columbus, Ohio.....	1	.....	Pittsfield, Mass.....	1	.....
Dayton, Ohio.....	1	1	Providence, R. I.....	.....	1
Detroit, Mich.....	1	.....	St. Louis, Mo.....	9	4
Hartford, Conn.....	12	4	Salt Lake City, Utah.....	1	2
Indianapolis, Ind.....	2	.....	Schenectady, N. Y.....	.....	1
Kansas City, Mo.....	8	1	Somerville, Mass.....	.....	1
Los Angeles, Cal.....	1	.....	Washington, D. C.....	3	1

### CHOLERA.

Philippine Islands—Manila.

Surg. Long reported that during the week ended February 17, 1917, 5 cases of cholera, with 2 deaths, occurred in the city of Manila, P. I.

**DIPHTHERIA.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 549.

**ERYSIPELAS.****City Reports for Week Ended Mar. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.	1	—	Los Angeles, Cal.	5	1
Ann Arbor, Mich.	2	—	Milwaukee, Wis.	8	1
Baltimore, Md.	7	2	Nashville, Tenn.	1	—
Boston, Mass.	—	1	Newark, N. J.	13	—
Bridgeport, Conn.	4	1	New Castle, Pa.	1	—
Brockton, Mass.	2	1	New Orleans, La.	—	1
Buffalo, N. Y.	6	—	New York, N. Y.	—	8
Camden, N. J.	1	—	Niagara Falls, N. Y.	1	1
Chelsea, Mass.	—	1	Philadelphia, Pa.	9	1
Chicago, Ill.	32	5	Pittsburgh, Pa.	18	2
Cleveland, Ohio.	13	1	Portland, Me.	—	1
Columbus, Ohio.	—	1	Richmond, Va.	—	1
Cumberland, Md.	1	—	Rochester, N. Y.	7	—
Dayton, Ohio.	2	—	Saginaw, Mich.	—	1
Denver, Colo.	1	—	St. Joseph, Mo.	1	2
Detroit, Mich.	8	1	St. Louis, Mo.	19	1
Duluth, Minn.	4	—	San Diego, Cal.	2	—
Harrisburg, Pa.	1	—	San Francisco, Cal.	12	—
Hartford, Conn.	2	—	Toledo, Ohio.	—	1
Jackson, Mich.	2	1	Wheeling, W. Va.	1	—
Johnstown, Pa.	1	—	Wichita, Kans.	1	—
Kalamazoo, Mich.	1	—	Wilkinsburg, Pa.	1	—
Lawrence, Mass.	1	—			

**LEPROSY.****City Report for Week Ended Mar. 24, 1917.**

During the week ended March 24, 1917, one case of leprosy was reported in San Francisco, Cal.

**MALARIA.****State Reports for February, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Virginia—Continued.</b>	
Amador County.....	1	Cumberland County.....	1
Butte County.....	6	Elizabeth City County.....	5
Merced County.....	1	Essex County.....	1
Placer County—		Floyd County.....	1
Rocklin.....	1	Gloucester County.....	10
Sacramento County—		Greensville County.....	2
Sacramento.....	5	Emporia.....	8
Yolo County.....	3	North Emporia.....	5
Total.....	17	Halifax County.....	12
		South Boston.....	3
<b>Virginia:</b>		Hanover County.....	4
Accomac County.....	2	Henrico County.....	2
Chincoteague Island.....	7	Isle of Wight County.....	19
Albemarle County.....	3	Smithfield.....	4
Amelia County.....	1	James City County.....	5
Amherst County.....	1	King and Queen County.....	3
Appomattox County.....	1	King George County.....	6
Botetourt County.....	1	King William County.....	1
Brunswick County.....	7	Lancaster County.....	1
Campbell County.....	1	Lee County.....	3
Altavista.....	2	Loudoun County.....	5
Caroline County.....	5	Louisa County.....	2
Bowling Green.....	2	Lunenburg County.....	1
Charles City County.....	3	Victoria.....	1
Chesterfield County.....	1	Mecklenburg County.....	1
		Middlesex County.....	6



**MALARIA—Continued.****State Reports for February, 1917—Continued.**

Place.	New cases reported.	Place.	New cases reported.
<b>Virginia—Continued.</b>		<b>Virginia—Continued.</b>	
Nansemond county.....	8	Princess Anne.....	4
Suffolk.....	16	Prince Edward County.....	1
Nelson county.....	1	Prince George.....	10
Norfolk county.....	1	Hopewell.....	3
Northumberland County.....	9	Prince William county.....	16
Nottoway county.....	1	Richmond county.....	1
Burkeville.....	1	Southampton county.....	10
York county.....	10	Franklin.....	2
Pittsylvania county.....	14	Surry county.....	8
Sussex county.....	3	Total.....	276
Powhatan County.....	6		
Warwick County.....	2		

**City Report for Week Ended Mar. 24, 1917.**

During the week ended March 24, 1917, two cases of malaria were reported in Berkeley, Cal.

**MEASLES.****Alabama—Birmingham.**

Asst. Epidemiologist Harrington reported that during the month of March, 1917, 1,573 cases of measles, with 21 deaths, were notified in Birmingham, Ala., and that during the period from January 1 to March 31, 1917, 2,908 cases, with 32 deaths, were reported.

**California.**

The California State Board of Health reported that during the month of March, 1917, at least 3,600 cases of measles occurred in the State of California. During the month of February 3,305 cases were notified and for January 1,606 cases were notified, making a total of over 8,500 cases reported during the first three months of 1917. During the year 1916 there were 4,268 cases reported, and 13,114 cases were reported during 1915.

**California—Los Angeles.**

Senior Surg. Brooks reported that during the week ended March 31, 1917, 350 cases of measles were notified in Los Angeles, Cal. During the month of March 1,262 cases were reported.

**Illinois—Cairo.**

Acting Asst. Surg. Barrows reported that during the month of March, 1917, 283 cases of measles were notified in Cairo, Ill. During January 40 cases were reported and in February 275 cases.

**MEASLES—Continued.****Washington—Seattle.**

Surg. Lloyd reported that during the period of two weeks ended March 31, 1917, 313 cases of measles, with 1 death, were notified in Seattle, Wash., making a total of 7,549 cases, with 18 deaths, reported since the beginning of the epidemic, February 15, 1916.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 549.

**PELLAGRA.****Virginia Report for February, 1917.**

Place.	New cases reported.	Place.	New cases reported.
Virginia:		Virginia—Continued.	
Augusta County—		Louisa County.....	1
Fordwick.....	1	Nansemond County.....	1
Dinwiddie County.....	1	New Kent County.....	1
Fauquier County.....	1	Prince George County.....	4
Fluvanna County.....	1	Scott County.....	2
Grayson County.....	2	Southampton County.....	1
Hanover County.....	1	Total.....	18
Henry County.....	1		

**City Reports for Week Ended Mar. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....	1	3	Lowell, Mass.....	1	—
Concord, N. H.....	—	1	Mobile, Ala.....	2	1
Lexington, Ky.....	—	1			

**PNEUMONIA.****City Reports for Week Ended Mar. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Allentown, Pa.....	1	—	Lima, Ohio.....	1	2
Ann Arbor, Mich.....	1	—	Lincoln, Nebr.....	2	—
Auburn, N. Y.....	2	—	Los Angeles, Cal.....	6	4
Baltimore, Md.....	19	23	Manchester, N. H.....	7	7
Binghamton, N. Y.....	1	1	McKeesport, Pa.....	1	1
Braddock, Pa.....	2	—	Morristown, N. J.....	1	1
Canton, Ohio.....	1	5	Newark, N. J.....	73	21
Chicago, Ill.....	324	168	New Britain, Conn.....	3	3
Cincinnati, Ohio.....	1	10	New Castle, Pa.....	7	—
Cleveland, Ohio.....	51	56	Norristown, Pa.....	1	4
Clinton, Mass.....	2	—	Philadelphia, Pa.....	134	79
Dayton, Ohio.....	2	6	Pittsburgh, Pa.....	26	27
Detroit, Mich.....	14	44	Racine, Wis.....	1	1
Dubuque, Iowa.....	1	1	Reading, Pa.....	9	8
Duluth, Minn.....	3	1	Rochester, N. Y.....	10	5
Flint, Mich.....	6	2	Sandusky, Ohio.....	4	1
Grand Rapids, Mich.....	6	3	San Francisco, Cal.....	16	9
Jackson, Mich.....	3	—	Schenectady, N. Y.....	4	2
Kalamazoo, Mich.....	3	1	Steelton, Pa.....	2	1
Kansas City, Mo.....	7	38	Toledo, Ohio.....	2	10
Lancaster, Pa.....	6	—	Wichita, Kans.....	2	—
Lexington, Ky.....	1	1	York, Pa.....	3	—

**POLIOMYELITIS (INFANTILE PARALYSIS).****State Reports for February, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Virginia:</b>	
Merced County.....	1	Floyd County.....	1
Santa Barbara County.....	1	Loudoun County.....	1
Total.....	2	Patrick County.....	1
		Rockbridge County.....	1
<b>Indiana:</b>		Russell County.....	1
Brown County.....	1	Shenandoah County—	
Madison County.....	2	Strasburg.....	2
St. Joseph County.....	1	Wise County.....	1
Total.....	4	Total.....	8

**City Reports for Week Ended Mar. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill.....	1	.....	Philadelphia, Pa.....	1	.....
Newark, N. J.....	1	.....	Pittsburgh, Pa.....	1	1
New Castle, Pa.....	1	.....	St. Louis, Mo.....	1	.....

**RABIES IN ANIMALS.****City Report for Week Ended Mar. 24, 1917.**

During the week ended March 24, 1917, two cases of rabies in animals were reported in Niagara Falls, N. Y.

**SCARLET FEVER.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 549.

**SMALLPOX.****Illinois—Cairo.**

Acting Asst. Surg. Barrows reported that during the month of March, 1917, 2 cases of smallpox were notified in Cairo, Ill. Two cases were also reported in February.

**Massachusetts—Worcester.**

Collaborating Epidemiologist Kelley reported that 1 case of smallpox was notified at Worcester, Mass., April 6, 1917.

**Minnesota.**

Collaborating Epidemiologist Bracken reported that during the week ended April 7, 1917, 3 new foci of smallpox infection were reported in Minnesota, cases of the disease having been notified as follows: Clay County, Spring Prairie Township, 1; Kanabec County, Hillman Township, 1; Marshall County, Warren, 1.

**SMALLPOX—Continued.****Ohio—Springfield.**

Surg. Fox reported that during the week ended March 31, 1917, 7 cases of smallpox were notified at Springfield, Ohio. Two cases were notified during the preceding week, and for the week ended March 17 four cases were reported.

**Ohio—Toledo—Correction.**

In the Public Health Reports of March 23, 1917, on page 436, 1 death from smallpox was published as occurring at Toledo, Ohio. The entry should have been in the "Cases" column instead of in the "Deaths" column.

**Oklahoma—Okmulgee County Jail.**

Asst. Surg. Slaughter reported that during the week ended April 7, 1917, 6 cases of smallpox were notified among prisoners at the Okmulgee County Jail, Oklahoma, making a total of 11 cases recently reported in that institution.

**Texas—Galveston.**

Surg. Bahrenburg reported that 1 case of smallpox was notified at Galveston, Tex., April 9, 1917.

**California Report for February, 1917.**

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
California:						
Alameda County.....	7	.....	.....	.....	7	.....
Oakland.....	5	.....	.....	.....	5	.....
Los Angeles County—						
Los Angeles.....	2	.....	.....	.....	2	.....
Placer County—						
Auburn.....	1	.....	1	.....	.....	.....
San Diego County—						
Oceanside.....	1	.....	.....	.....	1	.....
San Diego.....	1	.....	.....	.....	1	.....
San Francisco.....	38	.....	3	4	31	.....
San Mateo County—						
South San Francisco.....	1	.....	.....	1	.....	.....
Santa Clara County.....	1	.....	.....	.....	1	.....
Solano County.....	1	.....	.....	.....	1	.....
Vacaville.....	6	.....	.....	5	1	.....
Total.....	64	.....	4	10	50	.....

## SMALLPOX—Continued.

## Miscellaneous State Reports.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Indiana (Feb. 1-28):			Indiana (Feb. 1-28)—Contd.		
Boone County.....	3	.....	Spencer County.....	3	.....
Cass County.....	1	.....	St. Joseph County.....	3	.....
Clark County.....	3	.....	Sullivan County.....	31	.....
Clay County.....	2	.....	Tippecanoe County.....	23	.....
Dekalb County.....	1	.....	Tipton County.....	8	.....
Floyd County.....	2	.....	Vanderburg County.....	10	.....
Fountain County.....	28	.....	Vermillion County.....	11	.....
Fulton County.....	7	.....	Vigo County.....	170	.....
Gibson County.....	19	.....	Warren County.....	1	.....
Grant County.....	6	.....	Washington County.....	6	.....
Greene County.....	5	.....	White County.....	30	.....
Hamilton County.....	3	.....	Total.....	537	.....
Hancock County.....	1	.....	Virginia (Feb. 1-28):		
Hendricks County.....	1	.....	Franklin County.....	5	.....
Howard County.....	1	.....	Halifax County.....	75	.....
Jackson County.....	6	.....	Henry County.....	2	.....
Jay County.....	9	.....	Norfolk County.....	5	.....
Johnson County.....	8	.....	Pittsylvania County.....	13	.....
Knox County.....	1	.....	Pulaski County.....	3	.....
Lake County.....	15	.....	Smyth County.....	4	.....
Laporte County.....	8	.....	Wise County.....	1	.....
Madison County.....	20	.....	Wythe County.....	.....	.....
Marion County.....	23	.....	Rural Retreat.....	1	.....
Owen County.....	40	.....	Wytheville.....	36	.....
Parke County.....	2	.....	Total.....	145	.....
Pike County.....	7	.....			
Posey County.....	17	.....			
Putnam County.....	2	.....			
Rush County.....	3	.....			

## City Reports for Week Ended Mar. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	1	.....	Little Rock, Ark.....	3	.....
Austin, Tex.....	14	3	Minneapolis, Minn.....	41	.....
Baltimore, Md.....	2	.....	Nashville, Tenn.....	1	.....
Bute, Mont.....	6	.....	New Orleans, La.....	11	.....
Chicago, Ill.....	2	.....	New York, N. Y.....	1	.....
Cleveland, Ohio.....	10	.....	Oklahoma City, Okla.....	17	.....
Danville, Ill.....	7	.....	Portland, Oreg.....	1	.....
Duluth, Minn.....	10	.....	Quincy, Ill.....	1	.....
El Paso, Tex.....	2	.....	Rockford, Ill.....	3	.....
Evansville, Ind.....	4	.....	St. Joseph, Mo.....	21	.....
Everett, Wash.....	1	.....	St. Louis, Mo.....	17	.....
Flint, Mich.....	2	.....	Salt Lake City, Utah.....	8	.....
Fort Worth, Tex.....	2	.....	San Francisco, Cal.....	14	.....
Galveston, Tex.....	1	.....	Sioux City, Iowa.....	24	.....
Grand Rapids, Mich.....	1	.....	Springfield, Ill.....	3	.....
Indianapolis, Ind.....	4	.....	Topeka, Kans.....	1	.....
Kansas City, Mo.....	2	.....	Wichita, Kans.....	1	.....
La Crosse, Wis.....	1	.....	Worcester, Mass.....	2	.....
Lima, Ohio.....	25	.....			

## TETANUS.

## City Reports for Week Ended Mar. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Cairo, Ill.....	.....	1	St. Louis, Mo.....	1	1
Cleveland, Ohio.....	.....	1	San Jose, Cal.....	1	1
Galveston, Tex.....	.....	1			

## TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 549.

# **TYPHOID FEVER.** **State Reports for February, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Virginia:</b>	
Alameda County—		Accomac County.....	1
Alameda.....	1	Albemarle County.....	1
Berkeley.....	1	Charlottesville.....	1
Oakland.....	5	Alleghany County—	
Butte County.....	1	Clifton Forge.....	1
Contra Costa County—		Augusta County—	
Richmond.....	1	Staunton.....	1
Los Angeles County.....	2	Bedford County.....	1
Long Beach.....	1	Botetourt County—	
Los Angeles.....	14	Troutville.....	1
Riverside County.....	1	Buchanan County.....	2
Blythe.....	1	Campbell County.....	1
Sacramento County—		Caroline County.....	2
Sacramento.....	2	Fauquier County.....	3
San Diego County—		Floyd County.....	1
San Diego.....	1	Goosland County.....	1
San Francisco.....	20	Grayson County.....	1
San Joaquin County—		Hallfax County.....	3
Stockton.....	2	South Boston.....	1
Santa Cruz County—		Hanover County.....	2
Watsonville.....	1	Henrico County.....	1
Shasta County—		Richmond.....	3
Redding.....	1	King and Queen County.....	1
Siskiyou County—		Lancaster County.....	2
Sisson.....	1	Lee County.....	1
Sonoma County.....	1	Pennington Gap.....	1
Total.....	57	Loudoun County.....	4
<b>Indiana:</b>		Louisa County.....	6
Cass County.....	2	Lunenburg County.....	1
Clark County.....	1	Montgomery County.....	1
Daviess County.....	1	Nottaway County.....	1
Delaware County.....	2	Prince Edward County.....	3
Hancock County.....	1	Rapahannock County.....	1
Huntington County.....	1	Shenandoah County—	
Johnson County.....	2	Mount Jackson.....	1
Knox County.....	1	Tazewell County.....	4
Lake County.....	40	Portsmouth.....	4
Lawrence County.....	1	Warren County.....	1
Marion County.....	1	Washington County.....	3
Orange County.....	1	Westmoreland County.....	2
Rush County.....	5	Wise County—	
Scott County.....	1	Coeburn.....	1
St. Joseph County.....	6	St. Paul.....	1
Sullivan County.....	1	Total.....	67
Tippecanoe County.....	1		
Union County.....	1		
Vanderburgh County.....	1		
Warrick County.....	4		
Total.....	74		

## **City Reports for Week Ended Mar. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.....	1		Mobile, Ala.....	1	1
Allentown, Pa.....	2	1	Newark, N. J.....		1
Baltimore, Md.....	9	2	Newburyport, Mass.....	1	
Beaver Falls, Pa.....	2		New Castle, Pa.....	6	
Boston, Mass.....	3	1	New Haven, Conn.....	1	
Buffalo, N. Y.....	4	1	New Orleans, La.....	2	1
Camden, N. J.....	1		Newton, Mass.....	2	
Chicago, Ill.....	6		New York, N. Y.....	5	2
Cincinnati, Ohio.....	6	3	Philadelphia, Pa.....	4	2
Cleveland, Ohio.....	2	1	Pittsburgh, Pa.....	4	1
Columbus, Ohio.....	1	1	Portland, Me.....	2	
Dayton, Ohio.....	2		Providence, R. I.....		1
Detroit, Mich.....	1		Racine, Wis.....	1	1
Evansville, Ind.....	1		Reading, Pa.....	2	
Fall River, Mass.....	2		Richmond, Va.....	1	
Fort Wayne, Ind.....	1		Saginaw, Mich.....	1	
Grand Rapids, Mich.....	3		St. Louis, Mo.....	4	1
Lincoln, Nebr.....	1		San Francisco, Cal.....	1	
Los Angeles, Cal.....	3		Toledo, Ohio.....	1	
Lowell, Mass.....	1		Trenton, N. J.....	3	
Lynchburg, Va.....	1		Washington, D. C.....	2	
McKeesport, Pa.....	1		Wilmington, Del.....	1	1
Milwaukee, Wis.....	3		Worcester, Mass.....	2	
Minneapolis, Minn.....	4		Zanesville, Ohio.....	3	

**TYPHUS FEVER.****Texas.**

Senior Surg. Pierce reported that during the week ended March 24, 1917, 2 new cases of typhus fever were notified at El Paso, Tex., making a total of 76 cases reported on the Mexican border since July 1, 1916. During the same week 40,782 persons were inspected at points along the Mexican border. Of this number 4,959 were disinfected for destruction of vermin, and 1,855 were vaccinated. Thirty-two persons were refused admission because of illness.

**City Reports for Week Ended Mar. 24, 1917.**

During the week ended March 24, 1917, one death from typhus fever was reported in Austin, Tex., and two cases were reported in El Paso, Tex.

**PREVENTABLE DISEASES.****Massachusetts Report for Week Ended Mar. 24, 1917.**

	New cases re- ported.		New cases re- ported.
Cerebrospinal meningitis.....	4	Scarlet fever.....	191
Chicken pox.....	215	Septic sore throat.....	4
Diphtheria.....	182	Smallpox.....	3
German measles.....	117	Trachoma.....	1
Measles.....	652	Tuberculosis (pulmonary).....	162
Mumps.....	298	Tuberculosis (other forms).....	13
Ophthalmia neonatorum.....	52	Typhoid fever.....	14
Pellagra.....	1	Whooping cough.....	59
Poliomyelitis (infantile paralysis).....	2		

**DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.****State Reports for February, 1917.**

State.	Cases reported.			State.	Cases reported.		
	Diph- theria.	Measles.	Scarlet fever.		Diph- theria.	Measles.	Scarlet fever.
California.....	788	3,305	622	Virginia.....	148	4,847	128
Indiana.....	257	5,353	548				

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 24, 1917.

City.	Popula- tion as of July 1, 1916. (Estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.	589,621		7		92	2	13		21	30
Boston, Mass.	756,476	272	72	4	177		45	5	75	31
Chicago, Ill.	2,497,722	853	218	22	1,056	8	564	27	242	90
Cleveland, Ohio.	674,073	246	38	3	146	1	23		41	25
Detroit, Mich.	571,784	245	116	6	55		338	9	31	18
Los Angeles, Cal.	503,812	119	14		320		17	1	34	19
New York, N. Y.	5,602,841	1,681	266	28	898	12	184	5	349	239
Philadelphia, Pa.	1,709,518	634	85	9	82	11	34	2	149	64
Pittsburgh, Pa.	579,060	199	23	1	96	1	13		25	19
St. Louis, Mo.	757,309	249	84	2	628	10	69		47	28
From 300,000 to 500,000 inhab- itants:										
Buffalo, N. Y.	468,558	220	37	3	4		14		23	19
Cincinnati, Ohio.	410,476	139	12	1	72	2	11	1	33	24
Jersey City, N. J.	306,345		11		21		24		14	
Milwaukee, Wis.	436,535	153	13	2	23		137	3	20	8
Minneapolis, Minn.	363,454		25		13		26			
Newark, N. J.	408,894	152	27	1	82		10		53	19
New Orleans, La.	371,747		13	1	84				53	32
San Francisco, Cal.	463,516	148	23	2	320	2	28		36	19
Washington, D. C.	363,980	161	77	1	110	1	14		21	18
From 200,000 to 300,000 inhab- itants:										
Columbus, Ohio.	214,878	70	7	1	154	4	7		8	6
Denver, Colo.	260,800	67	3		461	2	2			14
Indianapolis, Ind.	271,703		8		386		18		7	
Kansas City, Mo.	297,847		8	2	185	3	85	1		17
Portland, Oreg.	285,463	58	5	1	45	2	14			3
Providence, R. I.	254,960	70	11	2	7		8			14
Rochester, N. Y.	256,417	73	4		27		58		9	5
From 100,000 to 200,000 inhab- itants:										
Albany, N. Y.	104,199				11		5		8	
Birmingham, Ala.	181,762	81			381	3	1		9	9
Bridgeport, Conn.	121,579	55	2		21	1	2		6	4
Cambridge, Mass.	112,581	36	8		51	1	7		6	6
Camden, N. J.	106,233	7	7		2		2		8	
Dayton, Ohio.	127,224	42	5		55		17		4	3
Fall River, Mass.	128,366		2		42	5	3		12	9
Fort Worth, Tex.	104,562	18	5		168					1
Grand Rapids, Mich.	123,291		2		215		21	1	3	
Hartford, Conn.	110,500	56	9		1		12		8	1
Lawrence, Mass.	100,560	37							3	5
Lowell, Mass.	113,245	39	8		18	1	3		3	2
Lynn, Mass.	102,425	25	4		3		5		4	2
Nashville, Tenn.	117,077	50	3		39	1	1		3	8
New Bedford, Mass.	118,158	37			17		4		11	1
New Haven, Conn.	149,685		2		41		2		7	3
Oakland, Cal.	198,604	45	1		25		17		2	1
Reading, Pa.	103,381	35					1		3	1
Richmond, Va.	156,687	56	1		111		1		13	3
Salt Lake City, Utah	117,299	16	2		17		18		1	
Springfield, Mass.	103,642	21	9	3	28		6		4	3
Syracuse, N. Y.	155,624	57	7		62		26	1	10	5
Toledo, Ohio.	191,554	78	1		24		77	2	12	8
Trenton, N. J.	111,593	41	10	1	2		1		6	5
Worcester, Mass.	163,314	48	3		9		6		4	7
From 50,000 to 100,000 inhab- itants:										
Allentown, Pa.	63,505	16	7		1		3		2	
Atlantic City, N. J.	57,660	10			71		2		4	
Bayonne, N. J.	69,893		2				4		2	
Berkeley, Cal.	57,633	10			29		3			2
Binghamton, N. Y.	53,673	21	3		33		4		2	
Brockton, Mass.	67,449	19	2				2		4	
Canton, Ohio.	60,852	22	1		2		3			1
Charleston, S. C.	60,734	29								2
Covington, Ky.	57,144	20	3		1		2			7
Duluth, Minn.	94,495	1	1		16		2		2	
Elizabeth, N. J.	86,690		6	1	3		5		3	4
El Paso, Tex.	63,705	57	3		27	1	3			14



# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 24, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 50,000 to 100,000 inhabit- ants—Continued.										
Erie, Pa.	75,195		5		37		12		9	27
Evansville, Ind.	76,078	17	2		163		1		3	3
Flint, Mich.	54,772	12	4		15		22		3	3
Fort Wayne, Ind.	76,183	18					1			2
Harrisburg, Pa.	72,015	24	4		3		1		3	2
Hoboken, N. J.	77,214	24	3	1	3		15	1	7	2
Johnstown, Pa.	68,529	19			15		1		1	2
Lancaster, Pa.	50,853						4		1	
Little Rock, Ark.	57,343	47			33					
Malden, Mass.	51,155	8	2		12		2		2	
Manchester, N. H.	78,283	27	1		6		1			1
Mobile, Ala.	58,221	21			22				1	3
New Britain, Conn.	53,794		2				2			4
Norfolk, Va.	89,612		5		35		2		2	4
Oklahoma City, Okla.	92,943	16			32	1	1		2	2
Passaic, N. J.	71,744	22	4		3				2	5
Portland, Me.	63,867	14	1		2		1			
Rockford, Ill.	55,185	19	2		7					4
Sacramento, Cal.	66,895	17	1		7		1		3	5
Saginaw, Mich.	55,642	20	2	1			9		69	
St. Joseph, Mo.	85,236	32	3	2	3		2		1	2
San Diego, Cal.	53,330	26	2		22		3	1	2	1
Schenectady, N. Y.	99,519	23	4		99	1	3		9	2
Sioux City, Iowa.	57,078						4			
Somerville, Mass.	87,039	24	7		3		12		3	6
South Bend, Ind.	68,946	14			2		24	1		1
Springfield, Ill.	61,120	24			1					2
Troy, N. Y.	77,916		2		49		11		5	3
Wichita, Kans.	70,722		1		226		2			
Wilkes Barre, Pa.	76,776	19	2		2		3		6	
Wilmington, Del.	94,285	32			4		1			
York, Pa.	51,636		2							
From 25,000 to 50,000 inhabit- ants:										
Alameda, Cal.	27,732	3			2		2		1	1
Auburn, N. Y.	37,385	10			2		1		1	
Austin, Tex.	34,814	23	1				2			4
Brookline, Mass.	32,730	3			5		1		1	
Butler, Pa.	27,632	10	1						2	2
Butte, Mont.	43,425	22	2		28					
Chelsea, Mass.	46,192	12	6						2	
Chicopee, Mass.	29,319	7			3		2			3
Cumberland, Md.	26,074	5	1		10				1	
Danville, Ill.	32,261	10	2		9	1	1		1	2
Davenport, Iowa.	48,811						2			
Dubuque, Iowa.	39,873				4		4		1	1
East Chicago, Ind.	28,743		2	1	8		4			
East Orange, N. J.	42,458	8	2		3		7		2	
Elgin, Ill.	28,203	10	1	1			4			
Everett, Mass.	39,233	5	7		11		1			
Everett, Wash.	35,486	5			40					
Fitchburg, Mass.	41,781	11	3				4		3	1
Galveston, Tex.	41,863	9								1
Haverhill, Mass.	48,477		9	1	5		6	1	1	1
Jackson, Mich.	35,363	16	2		44		4		1	1
Kalamazoo, Mich.	48,886	13	1		1		14		1	1
Kenosha, Wis.	31,576	5			53		5		2	
Kingston, N. Y.	26,771	8					1			1
Knoxville, Tenn.	38,676		2		3				3	
La Crosse, Wis.	31,677	11	2				6			1
Lexington, Ky.	41,097	19			13		1			2
Lima, Ohio.	35,384	12	2				2			2
Lincoln, Nebr.	46,515	23	8	1	59		23		3	
Long Beach, Cal.	27,587	15			1					
Lorain, Ohio.	36,964		1		3		6			
Lynchburg, Va.	32,940	5	1		3	1			2	
Madison, Wis.	30,699				2		12			1
McKeesport, Pa.	47,521	17	3		2		1	1		2

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 24, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
From 25,000 to 50,000 inhabit- ants—Continued:											
Medford, Mass.	26,234	7	1		16				1		
Montclair, N. J.	26,318	4			11				4		
Nashua, N. H.	27,327	10			14						
Newburg, N. Y.	29,603	10	1								
New Castle, Pa.	41,133				10						
Newport, Ky.	31,927	4									
Newport, R. I.	30,108	13	2							2	
Newton, Mass.	43,715	10			19		3			1	
Niagara Falls, N. Y.	37,353	19	3		3		2		5	1	
Norristown, Pa.	31,401	17	1	1					1	1	
Orange, N. J.	33,080	10	1		5		3		2		
Pasadena, Cal.	46,450				4		1		3		
Perth Amboy, N. J.	41,185		4								
Pittsfield, Mass.	38,629	9	1		1		3		4		
Portsmouth, Va.	39,651	7			18		6		1		
Quincy, Ill.	36,798	9	1		8						
Quincy, Mass.	38,136	11	2				1				
Racine, Wis.	46,496	12	1				1		1	1	
Roanoke, Va.	43,284	22	2		68		1		2	4	
San Jose, Cal.	38,902				3				2	1	
Steubenville, Ohio.	27,445	12									
Superior, Wis.	46,226	14	1				1		1		
Taunton, Mass.	36,283	16	2				1		1	1	
Topeka, Kans.	48,726	15	2		49				2	1	
Waltham, Mass.	30,570	9	2	1			3		1	2	
West Hoboken, N. J.	43,139	11	6		3		6		4		
Wheeling, W. Va.	43,377	13			7					1	
Williamsport, Pa.	33,809	3	1	1	37	2	2				
Wilmington, N. C.	29,892	5	3		28				1	3	
Winston-Salem, N. C.	31,155	20			23		4		1	2	
Zanesville, Ohio.	30,863	6								1	
From 10,000 to 25,000 inhabit- ants:											
Ann Arbor, Mich.	15,010	11	2		15		13	1			
Cairo, Ill.	15,794	10			36	3				1	
Clinton, Mass.	13,075	5			2						
Coffeyville, Kans.	17,548				4						
Concord, N. H.	22,669	5	1		2		1			1	
Galesburg, Ill.	24,276	7	2								
Kearny, N. J.	23,539	8			2					2	
Kokomo, Ind.	20,930	5	2		3		1		1		
Long Branch, N. J.	15,395	1	1		19						
Marinette, Wis.	14,610	4			1					1	
Melrose, Mass.	17,445	7			10		2			1	
Morristown, N. J.	13,284							1	2		
Muscatine, Iowa	17,500				2		1				
Nanticoke, Pa.	23,126	3			1		1				
Newburyport, Mass.	15,243	11			36	1					
New London, Conn.	20,985	6			2						
North Adams, Mass.	22,019	4			1		4		2		
Northampton, Mass.	19,926	10	1		12		2		1		
Plainfield, N. J.	23,805	7			3		2		4	1	
Portsmouth, N. H.	11,666						1				
Rocky Mount, N. C.	12,067	2			5						
Rutland, Vt.	14,831	1					4				
Sandusky, Ohio.	20,193	17			1		2				
Saratoga Springs, N. Y.	12,842	2	1								
Stelton, Pa.	15,548	6	2	1					1	1	
Wilkinsburg, Pa.	23,228	8			2		1		2		
Woburn, Mass.	15,969	5									

<sup>1</sup> Population Apr. 15, 1910; no estimate made.

# FOREIGN.

## CHINA.

### Examination of Rats—Shanghai.

During the period from January 21 to February 24, 1917, 1,321 rats were examined at Shanghai. No plague infection was found. The last plague-infected rat at Shanghai was reported found May 6, 1916.

### Plague Among Rats—Hing Ning.

Plague among rats was reported February 24, 1917, at Hing Ning, Kwantung Province, China.

## GREAT BRITAIN.

### Anthrax—Longwood, England.

A fatal case of anthrax was reported March 8, 1917, as occurring at Longwood, in the vicinity of Huddersfield, England, in an employee in a woolen mill at that place. The patient was a man who had been working at a shaking machine at which dust was shaken from the wool and carried by a fan into another room. The wool originated mostly in the East Indies. The type of the disease in the case reported was internal or pulmonary anthrax.

## MEXICO.

### Typhus Decreasing—Aguascalientes.

The prevalence of typhus at Aguascalientes, Mexico, was stated, March 20, 1917, to be decreasing, only a few cases being reported.

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

### Reports Received During the Week Ended Apr. 13, 1917.<sup>1</sup>

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Provinces.....				Apr. 1-30, 1916: Cases, 847; deaths, 910.
Anam.....	Apr. 1-30.....	430	816	
Cochin-China.....	do.....	12	5	
Laos.....	do.....	31	2	
Tonkin.....	do.....	374	117	
Provinces.....				May 1-31, 1916: Cases, 1,789; deaths, 1,679.
Anam.....	May 1-31.....	505	1,126	
Cambodia.....	do.....	31	4	
Cochin-China.....	do.....	120	30	
Laos.....	do.....	31	26	
Tonkin.....	do.....	1,130	493	

<sup>1</sup>From medical officers of the Public Health Service, American consuls, and other sources.

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

**Reports Received During the Week Ended Apr. 13, 1917—Continued.**

## **CHOLERA—Continued**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands:</b>				
Manila.....	Feb. 11-17.....	2	2	Not previously reported, cases, 3.
Provinces—				
Albay.....	do.....	9	2	
Antique.....	do.....	39	23	
Capiz.....	do.....	29	24	
Cebu.....	do.....	67	30	
Leyte.....	do.....	42	37	
Misamis.....	do.....	6	4	
Sorsogon.....	do.....	25	15	

## **PLAGUE.**

<b>Brazil:</b>				
Pernambuco, State.....	Jan. 16-31.....			Present in interior.
<b>China:</b>				
Chaochowfu.....	Feb. 24.....			Present. 26 miles from Swatow.
<b>Gold Coast:</b>				
Akra.....	Apr. 4.....			Present.
<b>India:</b>				Jan. 14-20, 1917: Cases, 17,275; deaths, 13,685.
<b>Indo-China:</b>				Apr. 1-30, 1916: Cases, 141; deaths, 79.
Provinces.....				
Anam.....	Apr. 1-30.....	63	42	
Cambodia.....	do.....	16	15	
Cochin-China.....	do.....	62	22	
<b>Indo-China.....</b>				May 1-31, 1916: Cases, 104; deaths, 64.
Provinces—				
Anam.....	May 1-31.....	52	31	
Cambodia.....	do.....	10	10	
Cochin-China.....	do.....	42	23	
<b>Union of South Africa:</b>				
<b>Transvaal—</b>				
Potschefstroom district.....	Jan. 15-21.....			1 case previously reported.

## **SMALLPOX.**

<b>Brazil:</b>				
Bahia.....	Feb. 25-Mar. 3.....	4		
Rio de Janeiro.....	Feb. 11-24.....	8	2	
<b>Canada:</b>				
Toronto.....	Mar. 25-31.....	3		
<b>China:</b>				
Chungking.....	Feb. 4-17.....			Present.
Hongkong.....	Feb. 4-24.....	112	90	
Mukden.....	Feb. 25-Mar. 18.....			Present.
<b>Indo-China:</b>				
Provinces.....				Apr. 1-30, 1916: Cases, 136; deaths, 6.
Anam.....	Apr. 1-30.....	24	4	
Cambodia.....	do.....	1		
Cochin-China.....	do.....	16		
Tonkin.....	do.....	95	2	
<b>Indo-China.....</b>				May 1-31, 1916: Cases, 145; deaths, 11.
Provinces—				
Anam.....	May 1-31.....	17	3	
Cambodia.....	do.....	18	7	
Cochin-China.....	do.....	9		
Tonkin.....	do.....	101	1	
<b>Japan:</b>				
Kobe.....	Feb. 26-Mar. 11.....	11	2	
Osaka.....	Feb. 21-Mar. 5.....	83	19	
<b>Russia:</b>				
Archangel.....	Feb. 1-13.....	19	2	
<b>Spain:</b>				
Seville.....	Feb. 1-28.....		7	
Valencia.....	Mar. 4-10.....	3		
<b>Straits Settlements:</b>				
Penang.....	Feb. 25-Mar. 3.....	18	2	
<b>Tunisia:</b>				
Tunis.....	Mar. 3-9.....	5	3	
<b>Union of South Africa:</b>				
Johannesburg.....	Jan. 21-27.....	5		
<b>Venezuela:</b>				
Maracaibo.....	Mar. 18-24.....		1	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—(Continued.)**

**Reports Received During Week Ended Apr. 13, 1917—Continued.**

## **TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Netherlands:				
Rotterdam.....	Feb. 4-10.....	1		
Russia:				
Archangel.....	Feb. 1-13.....	17	5	
Spain:				
Madrid.....	Feb. 1-28.....		1	
Straits Settlements:				
Penang.....	Feb. 25-Mar. 3.....	1		
Switzerland:				
Basel.....	Feb. 13-24.....	1		

## **YELLOW FEVER.**

Brazil:				
Espirito Santo, State.....	Feb. 26.....	7		

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917.**

## **CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea).....	Aug. Dec. 29.....	1,998		
India:				
Bassein.....	Dec. 31-Jan. 6.....		1	
Bombay.....	Nov. 5-Dec. 23.....	13	12	
Do.....	Jan. 14-Feb. 3.....	6	5	
Calcutta.....	Oct. 15-Dec. 30.....		161	Oct. 8-14, 1916: Cases, 3.
Do.....	Dec. 31-Jan. 20.....		49	
Madras.....	Nov. 5-Dec. 16.....	5		
Do.....	Dec. 31-Jan. 27.....	5	4	Dec. 17-23, 1916: One case.
Moulmein.....	Dec. 31-Jan. 6.....		1	
Rangoon.....	Nov. 26-Dec. 30.....	5	6	
Do.....	Dec. 31-Jan. 27.....	4	4	
Indo-China.....				June 1-30, 1916: Cases, 1,904; deaths, 1,250.
Do.....				July 1-Nov. 30, 1916: Cases, 2,907; deaths, 2,351.
Provinces—				
Anam.....	June 1-30.....	446	367	
Do.....	July 1-Nov. 30.....	673	529	
Cambodia.....	June 1-30.....	13	9	
Do.....	July 1-Nov. 30.....	140	90	
Cochin-China.....	June 1-30.....	137	76	
Do.....	July 1-Sept. 30.....	98	59	
Kwang-Tcheou-Wan.....	July 1-Nov. 30.....	271	264	
Laos.....	June 1-30.....	40	29	
Do.....	July 1-Nov. 30.....	652	630	
Tonkin.....	June 1-30.....	1,276	775	
Do.....	July 1-Nov. 30.....	998	725	
Saigon.....	Dec. 25-31.....	4	3	
Do.....	Jan. 29-Feb. 4.....	3	3	
Japan:				
Fukuoka.....	Jan. 19.....	33		
Nagasaki.....	Nov. 27-Dec. 3.....	9	4	
Do.....	Feb. 19-25.....	1	1	
Osaka.....	Nov. 16-Dec. 25.....	23	57	Aug. 13-Dec. 25, 1916: Cases, 971; deaths, 754.
Do.....	Dec. 26-Jan. 25.....	19	10	Jan. 6-16, 1917: Cases, 9. Aug. 14, 1916-Jan. 25, 1917: Cases, 990; deaths, 641.
Taiwan Island—				
Keelung.....	Nov. 13-Dec. 23.....	5	7	
Do.....	Feb. 13-24.....		1	
Taihoku.....	do.....	14	5	
Tokyo.....	Jan. 23-Feb. 4.....	4		
Yokohama.....	Nov. 6-Dec. 3.....	5	3	
Districts.....	do.....	1	1	

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java.....	Oct. 14-17.....	5	3	
West Java.....				
Batavia.....	Nov. 17-Dec. 7.....	23	9	Nov. 17-Dec. 14, 1916: Cases, 135; deaths, 65.
Persia:				
Mazanderan Province—				
Amol.....	Nov. 16.....			Epidemic.
Feriknar.....	Nov. 30.....	8	8	
Philippine Islands:				
Manila.....	Oct. 29-Dec. 30.....	201	70	Not previously reported: Cases, 51; deaths, 2.
Do.....	Dec. 31-Feb. 3.....	11	5	Oct. 29-Dec. 9, 1916: Cases, 4,191; deaths, 2,030. Dec. 17-30, 1916: Cases, 282; deaths, 188. Dec. 31, 1916-Feb. 10, 1917: Cases, 938; deaths, 707.
Provinces				
Albay.....	Oct. 29-Dec. 9.....	246	147	
Do.....	Dec. 17-30.....	20	10	
Do.....	Dec. 31-Feb. 10.....	47	40	
Antique.....	Nov. 18-25.....	8	7	
Do.....	Dec. 31-Feb. 10.....	30	23	
Bataan.....	Oct. 29-Dec. 9.....	93	77	
Do.....	Dec. 17-23.....	2	2	
Do.....	Dec. 31-Jan. 6.....	2	3	
Batangas.....	Oct. 29-Nov. 18.....	1	1	
Bohol.....	Oct. 29-Dec. 9.....	46	18	
Do.....	Dec. 17-23.....	1		
Bulacan.....	Oct. 29-Dec. 9.....	96	67	
Do.....	Dec. 17-23.....	10	6	
Camarines.....	Oct. 29-Dec. 9.....	61	37	
Capiz.....	do.....	45	34	
Do.....	Dec. 17-30.....	27	23	
Do.....	Dec. 31-Feb. 10.....	96	64	
Cavite.....	Oct. 29-Dec. 9.....	156	113	
Do.....	Dec. 17-30.....	24	13	
Do.....	Dec. 31-Feb. 10.....	45	33	
Cebu.....	Dec. 24-30.....	12	6	
Do.....	Jan. 7-13.....	4	2	
Iloilo.....	Oct. 29-Dec. 9.....	237	148	
Do.....	Dec. 17-30.....	37	31	
Do.....	Dec. 31-Feb. 10.....	51	44	
Laguna.....	Nov. 2-25.....	12	10	
Leyte.....	Oct. 29-Dec. 9.....	127	98	
Do.....	Dec. 17-30.....	90	62	
Do.....	Dec. 31-Feb. 10.....	296	234	
Masbate.....	Dec. 17-23.....	8	2	
Mindanao.....	Jan. 14-Feb. 3.....	25	18	
Mindoro.....	Dec. 31-Feb. 3.....	8	7	
Misamis.....	Oct. 29-Dec. 9.....	126	79	
Do.....	Dec. 17-30.....	17	12	
Do.....	Jan. 1-Feb. 10.....	31	23	
Negros Occidental.....	Oct. 29-Dec. 9.....	910	553	
Do.....	Dec. 24-30.....	11	5	
Do.....	Jan. 7-Feb. 10.....	51	46	
Pampanga.....	Dec. 3-9.....	4	3	
Do.....	Dec. 17-23.....	6	5	
Do.....	Dec. 31-Jan. 6.....	1	1	
Rizal.....	Oct. 29-Dec. 9.....	27	14	
Do.....	Dec. 17-30.....	4		
Do.....	Dec. 31-Jan. 27.....	2		
Romblon.....	Jan. 28-Feb. 3.....	9	2	
Samar.....	Nov. 5-18.....	13	10	
Do.....	Dec. 31-Feb. 3.....	165	123	
Sorsogon.....	Oct. 29-Dec. 2.....	131	71	
Do.....	Dec. 17-23.....	1	2	
Do.....	Jan. 21-Feb. 10.....	67	38	
Tayabas.....	Nov. 5-18.....	1	1	
Zambales.....	Oct. 29-Dec. 2.....	7	1	
Straits Settlements:				
Singapore.....	Oct. 22-28.....	2	2	
Do.....	Jan. 7-13.....	1	1	
Turkey in Asia.....				
Aleppo.....	Dec. 9-15.....		1	Sept. 22-Dec. 12, 1916: Cases, 253; deaths, 117. July 14-Dec. 25, 1916: Cases, 9, 542; deaths, 4, 897.
Bagdad.....	Nov. 6-30.....	17	6	
Beirut.....	Dec. 7-12.....	2	1	
Tarsus.....	Nov. 7.....	1	1	
Turkey in Europe:				
Constantinople.....	Oct. 1-Nov. 17.....	8	1	

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **PLAGUE.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Brazil:</b>				
Bahia.....	Nov. 5-Dec. 16.....	15	9	Jan. 1-Nov. 11, 1916: Cases, 14; deaths, 7. Nov. 5-11: Cases, 4; deaths, 2.
Do.....	Jan. 7-Feb. 24.....	4	3	June 1-Nov. 6, 1916: Cases, 67; deaths, 51.
Joazeiro.....				Present in interior cities.
Pernambuco, State.....	Feb. 16.....			
<b>Ceylon:</b>				
Colombo.....	Oct. 28-Dec. 30.....	50	30	July 23-29, 1916: Cases, 9; deaths, 8.
Do.....	Dec. 31-Jan. 27.....	18	16	
<b>Chile:</b>				
Tocopilla.....	Sept. 12.....	1	1	
<b>China:</b>				
Amoy, vicinity.....	Nov. 19-Dec. 2.....			Present.
Hongkong.....	Dec. 24-30.....	1	1	
Do.....	Jan. 21-Feb. 3.....	24	12	Present in vicinity.
Kansu Province— Taochow.....	Oct. 1-24.....		20	Pneumonic. Reported present in other localities in Province.
<b>Ecuador</b> .....				Sept. 1-Dec. 31, 1916: Cases, 353; deaths, 119.
Duran.....	Oct. 1-Dec. 31.....	2		
Guayaquil.....	Sept. 1-Dec. 31.....	347	116	Jan. 1-31, 1917: Cases, 106; deaths, 43.
Do.....	Jan. 1-31.....	104	43	
Milagro.....	Nov. 1-Dec. 31.....	2	1	
Naranjal.....	Jan. 1-31.....	1		
Nobol.....	Oct. 1-31.....	1	1	
Santa Rosa.....	Sept. 1-30.....	1	1	
Taura.....	Jan. 1-31.....	1		
<b>Egypt</b> .....				Jan. 1-Dec. 30, 1916: Cases, 1,702; deaths, 828. Jan. 1-Feb. 16, 1917: Cases, 14; deaths, 6.
Alexandria.....	Nov. 12-Dec. 25.....	4	3	1 case on s. s. Proton, arrived Nov. 16, 1916, from Sidi Barani and Sollum.
Do.....	Feb. 21.....	1		
Port Said.....	Dec. 11.....	1		
Do.....	Jan. 18-Feb. 20.....	5	1	
Provinces—				
Beni-Souef.....	Feb. 1.....	1		
Fayoum.....	Jan. 24-Feb. 16.....	2	1	
Minieh.....	Jan. 25-Feb. 9.....	2	2	
<b>Hawaii:</b>				
Pasailo.....	Mar. 7.....	1	1	
<b>India</b> .....				Oct. 15-Dec. 23, 1916: Cases, 89,512; deaths, 67,068. Dec. 31, 1916-Jan. 13, 1917: Cases, 30,487; deaths, 23,538. Jan. 21-27, 1917: Cases, 33,147; deaths, 26,468.
Bassein.....	Oct. 22-Dec. 30.....		7	Oct. 8-14, 1916: Cases, 13; deaths, 7. Received out of date. Original report lost on s. s. Arabia.
Do.....	Dec. 31-Jan. 13.....		8	
Bombay.....	Nov. 5-Dec. 30.....	73	59	
Do.....	Dec. 31-Feb. 3.....	58	52	
Karachi.....	Oct. 29-Dec. 23.....	3	2	
Do.....	Dec. 24-30.....	1	1	
Do.....	Dec. 31-Feb. 3.....	3	2	
Madras.....	Nov. 19-Dec. 30.....	7	5	Oct. 8-194, 116: Cases, 1; deaths, 1.
Do.....	Dec. 31-Feb. 3.....	5	3	
Madras Presidency.....	Nov. 5-Dec. 30.....	5,854	3,932	Oct. 8-14, 1916: Cases, 534; deaths, 353. Sept. 17-23, 1916: Cases, 429; deaths, 280.
Do.....	Dec. 31-Feb. 3.....	3,705	2,485	
Mandalay.....	Oct. 28-Dec. 30.....		3	
Moulmein.....	Dec. 3-9.....		1	
Prome.....	Oct. 22-Dec. 30.....		177	
Do.....	Dec. 31-Jan. 13.....		49	
Rangoon.....	Oct. 28-Dec. 30.....	43	39	Oct. 1-7, 1916: Cases, 9; deaths, 9.
Do.....	Dec. 31-Jan. 27.....	70	65	
Toungoo.....	Oct. 22-Dec. 30.....		12	
Do.....	Dec. 31-Jan. 13.....		4	
<b>Indo-China</b> .....				June 1-30, 1916: Cases, 75; deaths, 5. July 1-Nov. 30, 1916: Cases, 215; deaths, 130.
Provinces—				
Anam.....	June 1-30.....	27	10	
Do.....	July 1-Nov. 30.....	70	47	
Cambodia.....	June 1-30.....	17	16	
Do.....	July 1-Nov. 30.....	47	44	
Cochin-China.....	June 1-30.....	31	18	
Do.....	July 1-Nov. 30.....	58	22	
Kwang-Tcheou-Wan.....	do.....	29	8	
Tonkin.....	Oct. 1-31.....	2		
Saigon.....	Nov. 6-Dec. 17.....	9	3	
Do.....	Jan. 1-Feb. 4.....	10	7	

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Japan:</b>				
Nagoya.....	Dec. 10-16.....	2	.....	
Taiwan Island—				
Shirin.....	Feb. 18-24.....	1	1	Three miles from Taihoku.
Yokkaichi.....	Nov. 12-Dec. 16...	32	12	
<b>Java:</b>				
East Java.....				Aug. 26-Dec. 31, 1916: Cases, 133; deaths, 116.
Djocjakarta Residency.....	Nov. 4-Dec. 31.....	2	2	
Kediri Residency.....	Aug. 26-Dec. 31.....	20	18	
Madioen Residency.....	do.....	8	8	
Paseroean Residency.....	do.....	3	3	
Samarang Residency.....	Dec. 2-31.....	6	6	
Surabaya Residency.....	Aug. 26-Dec. 31.....	49	49	
Surakarta Residency.....	do.....	28	28	
Mid-Java—				
Samarang.....	do.....	1	1	
<b>Siam:</b>				
Bangkok.....	Oct. 22-Dec. 30....	12	10	
Do.....	Jan. 14-20.....	1	1	
<b>Straits Settlements:</b>				
Singapore.....	Oct. 22-Dec. 30....	7	7	
Do.....	Dec. 31-Feb. 3....	7	6	
<b>Union of South Africa:</b>				
Cape of Good Hope State—				
Uitenhage district.....	Oct. 31-Nov. 12....	2	2	Total, Oct. 23-Nov. 12, 1916: Cases, 24; deaths, 13.
Orange Free State—				
Winburg district.....	Feb. 5-11.....	6	2	On a farm.
Transvaal—				
Potchefstroom district..	Dec. 21-Jan. 14....	12	11	On two adjoining farms.

## **SMALLPOX.**

<b>Australia:</b>				
New South Wales—				
Coonamble.....	Dec. 8.....	1	.....	
<b>Austria-Hungary:</b>				
Austria—				
Vienna.....	Nov. 12-Dec. 9....	8	1	
Hungary—				
Budapest.....	Nov. 5-Dec. 23....	73	2	
Do.....	Dec. 31-Jan. 20....	18	3	
<b>Brazil:</b>				
Bahia.....	Nov. 12-Dec. 23....	5	.....	
Do.....	Jan. 7-Feb. 10....	4	.....	
Rio de Janeiro.....	Nov. 12-Dec. 30....	50	12	
Do.....	Dec. 31-Feb. 10....	83	24	
<b>Canada:</b>				
Alberta—				
Lethbridge.....	Feb. 1-28.....	2	.....	
British Columbia—				
Vancouver.....	Feb. 18-24.....	1	.....	
Victoria.....	Feb. 11-17.....	1	.....	
Manitoba—				
Winnipeg.....	do.....	3	.....	
Ontario—				
Kingston.....	Mar. 11-17.....	1	.....	
Sarnia.....	Jan. 28-Feb. 10....	3	.....	
Toronto.....	Jan. 28-Mar. 17....	3	.....	
<b>Ceylon:</b>				
Colombo.....	Dec. 31-Jan. 6....	1	.....	
<b>China:</b>				
Amoy.....	Oct. 31-Dec. 9....	.....	.....	Present. Dec. 10-16, 1916: Cases, 3.
Antung.....	Jan. 8-14.....	2	1	
Canton.....	Nov. 1-Dec. 20....	.....	14	
Chungking.....	Oct. 28-Dec. 30....	.....	.....	Present. Do.
Do.....	Dec. 31-Feb. 3....	.....	.....	
Dairen.....	Nov. 3-Dec. 30....	63	8	
Do.....	Dec. 31-Feb. 17....	59	16	In vicinity, Jan. 14-20, 1917, 1 case.
Foochow.....	Oct. 29-Dec. 16....	.....	.....	Present.
Harbin.....	Nov. 6-Dec. 17....	3	.....	
Hongkong.....	Oct. 28-Dec. 30....	349	243	
Do.....	Dec. 31-Feb. 3....	324	274	Present in vicinity.



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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>China—Continued.</b>				
Kwangtung Province— Chaoyang district.....	Jan. 21-27.....			Present. Vicinity of Swatow.
Mukden.....	Dec. 9-30.....			Do.
Do.....	Dec. 31-Feb. 10.....			Do.
Nanking.....	Nov. 12-25.....			Do.
Shanghai.....	Jan. 28-Feb. 3.....	1		
Tientsin.....	Dec. 17-30.....	1	1	
Do.....	Jan. 28-Feb. 3.....	2		
Tsingtao.....	Dec. 1-9.....	3		
Do.....	Dec. 28-Feb. 24.....	58	2	
<b>Colombia:</b>				
Espinal.....	Feb. 17.....			Present. Suburb of Cartagena.
<b>Cuba:</b>				
Casa Blanca.....	Jan. 12.....	1		Vicinity of Habana. Case landed Jan. 1, 1917, from s. s. Alfonso XII, from Santander, Spain.
Encrucijada.....	Jan. 10.....	1		In Santa Clara Province. Case landed from s. s. Montevideo, from Barcelona, via Las Palmas, Canary Islands, and Porto Rico; arrived at Habana Jan. 6, 1917.
Guanabacoa.....	Jan. 9.....	1		Vicinity of Habana. Case landed from s. s. Montevideo.
Habana.....	Jan. 10-20.....	2		At Mariel quarantine station. From s. s. Montevideo.
<b>Ecuador:</b>				
Guayaquil.....	Nov. 1-30.....	10	1	
<b>Egypt:</b>				
Alexandria.....	Dec. 25-31.....		3	
Do.....	Jan. 8-Feb. 11.....	2	1	
Cairo.....	June 11-July 1.....	50	20	
Do.....	July 2-Oct. 21.....	60	20	
Port Said.....	June 11-17.....	1	1	
Do.....	Aug. 20-Sept. 9.....	2	1	
<b>France:</b>				
Marseille.....	Oct. 1-Dec. 31.....		16	
Do.....	Feb. 1-28.....		2	
Paris.....	Dec. 17-23.....	1		
Do.....	Jan. 14-20.....		1	
<b>Germany:</b>				
Bremen.....	Dec. 31-Jan. 20.....	2		
Hamburg, district.....	Do.....	52		
<b>Great Britain:</b>				
Liverpool.....	Feb. 4-Mar. 3.....	3	1	
<b>Greece:</b>				
Athens.....	Jan. 1-15.....		5	
<b>Hawaii:</b>				
Honolulu.....	Jan. 9.....	1		From s. s. Tenyo Maru from oriental ports.
Do.....	Jan. 24.....	1		From s. s. Ecuador from Hong-kong.
<b>India:</b>				
Bombay.....	Dec. 10-30.....	5	1	Oct. 8-14, 1916: Cases, 3; deaths, 3. Received out of date. Original report lost on s. s. Arabia.
Do.....	Dec. 31-Feb. 3.....	35	12	
Calcutta.....	Nov. 5-Dec. 2.....		2	
Karachi.....	Dec. 31-Jan. 13.....	2		
Madras.....	Nov. 5-Dec. 30.....	35	19	
Do.....	Dec. 31-Feb. 3.....	57	17	
Moulmein.....	Oct. 28-Nov. 11.....		4	
Rangoon.....	Oct. 28-Dec. 30.....	17	1	
Do.....	Dec. 31-Jan. 27.....	3	1	
<b>Indo-China:</b>				
Provinces—				June 1-30, 1916: Cases, 53; deaths, 11. July 1-Nov. 30, 1916: Cases, 357; deaths, 131.
Anam.....	June 1-30.....	4	1	
Do.....	July 1-Nov. 30.....	93	2	
Cambodia.....	June 1-30.....	11	4	
Do.....	July 1-Oct. 31.....	16	8	
Cochin-China.....	June 1-30.....	19	5	
Do.....	July 1-Nov. 30.....	181	59	
Laos.....	Aug. 1-Oct. 31.....	39	16	
Tonkin.....	June 1-30.....	19	1	
Do.....	July 1-Nov. 30.....	14	5	
Saigon.....	Nov. 6-Dec. 31.....	28	7	
Do.....	Jan. 1-Feb. 4.....	48	14	

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Italy:				
Turin.....	Feb. 19-25.....	5	1	Roumanian refugees.
Japan:				
Ehime.....	Jan.-Feb.....			Present.
Hyogo.....	do.....			Do.
Kagawa.....	do.....			Do.
Kobe.....	Nov. 28-Dec. 10.....	4	1	
Do.....	Jan. 1-Feb. 25.....	54	13	
Kochi.....	Jan.-Feb.....			Present.
Osaka.....	Jan. 22-Feb. 20.....	142	23	
Java:				
East Java.....				Sept. 16-Dec. 31, 1916: Cases, 92;
Surabay.....	Nov. 4-10.....	1		deaths, 2.
Mid-Java.....				Sept. 16-Dec. 29, 1916: Cases, 227;
Samarang.....	Nov. 4-10.....	3		deaths, 24.
West Java.....				Sept. 29-Dec. 28, 1916: Cases, 408;
Batavia.....	Sept. 29-Dec. 28.....	54	9	deaths, 63.
Do.....	Dec. 29-Jan. 11.....	22	1	
Mexico:				
Durango.....	Feb. 17.....			Present; also present in vicinity.
Mexico City.....	Dec. 10-30.....	20		
Do.....	Dec. 31-Mar. 3.....	72		
Nuevo Laredo.....	Dec. 10-30.....	1		
Vera Cruz.....	Feb. 18-24.....		1	
New Zealand:				
Auckland.....	Feb. 4-10.....	4		
Norway:				
Trondhjem.....	Jan. 1-31.....	2		
Philippine Islands:				
Manila.....	Jan. 21-Feb. 10.....	12		July 30-Dec. 30, 1916: Cases, 10.
Portugal:				
Lisbon.....	Nov. 19-Dec. 2.....	6		
Portuguese East Africa:				
Lorenzo Marques.....	Sept. 1-30.....		1	
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	6	1	
Do.....	Jan. 1-14.....	10	3	
Moscow.....	Oct. 16-Dec. 18.....	95	23	Nov. 13-25, 1916: Cases, 35; deaths,
Petrograd.....	Oct. 8-Dec. 30.....	180	65	8
Riga.....	Dec. 31-Jan. 27.....	4		
Vladivostok.....	Jan. 22-28.....	1		
Spain:				
Cadiz.....	Nov. 1-Dec. 31.....		3	
Madrid.....	do.....		144	Jan. 1-Dec. 31, 1916: Deaths, 405.
Do.....	Jan. 1-31.....		35	
Malaga.....	Sept. 1-Nov. 30.....		15	
Seville.....	Nov. 1-30.....		22	
Do.....	Jan. 1-31.....		9	
Valencia.....	Nov. 19-Dec. 23.....	5	1	
Do.....	Jan. 14-Feb. 10.....	3		
Straits Settlements:				
Penang.....	Oct. 28-Dec. 30.....	16	3	
Do.....	Dec. 31-Jan. 6.....	6	1	
Singapore.....	Nov. 19-Dec. 30.....	3	2	
Do.....	Jan. 7-13.....	1	1	
Sweden:				
Göthenburg.....	Jan. 28-Feb. 3.....		1	
Switzerland:				
Basel.....	Nov. 5-11.....	1		
Do.....	Dec. 31-Feb. 10.....	19		
Tunisia:				
Tunis.....	Nov. 25-Dec. 15.....	51	27	
Do.....	Dec. 30-Feb. 23.....	61	18	
Turkey in Asia:				
Trebizond.....	Nov. 11-Dec. 30.....	1	1	
Do.....	Dec. 31-Feb. 3.....	5	4	
Union of South Africa:				
Johannesburg.....	Sept. 10-Dec. 30.....	45		
Do.....	Dec. 31-Jan. 13.....	1		
Venezuela:				
Maracaibo.....	Mar. 3-17.....		17	
On vessel:				
S. S. Nippon Maru.....	Jan. 22.....	2		Landed at Yokohama quaran-
Do.....	Jan. 24-Feb. 3.....	9	2	tine. En route to Honolulu. Vessel from oriental ports.

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Argentina:				
Rosario.....	Nov. 1-30.....		1	
Austria-Hungary:				
Austria—				
Vienna.....	Nov. 5-Dec. 30.....	21	2	
Do.....	Dec. 31-Jan. 20.....	6	2	
Hungary—				
Budapest.....	Nov. 5-Dec. 30.....	3	1	
Do.....	Jan. 14-20.....	10	3	
Belgium:				
Ghent.....	Oct. 29-Nov. 4.....		1	
Liege.....	do.....		1	
Do.....	Jan. 28-Feb. 3.....		1	
China:				
Antung.....	Nov. 27-Dec. 10.....	6		
Do.....	Jan. 15-21.....	2		
Hankow.....	Nov. 12-18.....	1		
Tientsin.....	Oct. 29-Nov. 4.....	1		
Tsingtao.....	Dec. 28-Feb. 24.....	4		
Cuba:				
Santiago.....	Dec. 7-13.....	1	1	
Egypt:				
Alexandria.....	Nov. 12-Dec. 31.....	28	12	Nov. 19-25, 1916: 1 case; Dec. 17-23, 1916: Cases, 4.
Do.....	Jan. 1-Feb. 11.....	129	25	
Cairo.....	June 11-July 1.....	275	142	
Do.....	July 2-Oct. 28.....	285	149	
Port Said.....	June 11-17.....	20	9	
Do.....	July 2-Oct. 14.....	10	8	
Germany:				
Berlin.....	Oct. 15-Dec. 23.....		7	
Bremen.....	Oct. 22-Dec. 30.....	1	3	
Do.....	Dec. 31-Jan. 13.....	1	2	
Frankfort-on-Main.....	Nov. 12-18.....		1	
Königsberg.....	Nov. 12-Dec. 23.....	5	5	
Do.....	Dec. 31-Jan. 20.....	5	2	
Nuremberg.....	Oct. 29-Nov. 11.....	3		
Stettin.....	Jan. 21-27.....		1	
Great Britain:				
Cork.....	Jan. 7-Feb. 3.....	1	1	
Glasgow.....	Dec. 3-30.....	4		
Do.....	Jan. 7-13.....		1	
Greece:				
Saloniki.....	Nov. 7-Dec. 25.....		36	
Do.....	Dec. 26-Jan. 1.....		9	
Java:				
East Java.....				Sept. 16-Dec. 16, 1916: Cases, 10.
Mid-Java.....				Sept. 16-Dec. 29, 1916: Cases, 87; deaths, 7.
Samarang.....	Nov. 4-Dec. 1.....	10		
West Java.....				Sept. 29-Dec. 28, 1916: Cases, 185; deaths, 13. Dec. 29, 1916-Jan. 18, 1917: Cases, 53; deaths, 2.
Batavia.....	Sept. 29-Dec. 28.....	139	12	
Do.....	Dec. 29-Jan. 18.....	42	1	
Mexico:				
Aguascalientes.....	Dec. 22.....			Epidemic.
Ciudad Juarez.....				July, 1916-Feb. 5, 1917: Cases, 100 (estimated).
Durango.....	Dec. 12.....			Present.
Do.....	Jan.-Feb.....			Present. Estimated deaths daily, about 25. Present throughout year 1916.
Mexico City.....	Dec. 3-30.....	835		
Do.....	Dec. 31-Mar. 3.....	1,028		
Nuevo Laredo.....	Dec. 10-16.....	4		July 1-Dec. 16, 1916: Cases, 28.
Netherlands:				
Rotterdam.....	Nov. 26-Dec. 30.....	8		
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	29	9	
Do.....	Jan. 1-14.....	16	11	
Moscow.....	Oct. 16-Dec. 10.....	92	13	
Petrograd.....	Oct. 8-Dec. 30.....	155	44	
Vladivostok.....	Jan. 22-28.....	1		
Spain:				
Madrid.....	Nov. 1-Dec. 31.....		3	Jan. 1-Dec. 31, 1916: Deaths, 35.
Do.....	Jan. 1-31.....		2	
Sweden:				
Stockholm.....	Nov. 28-Dec. 4.....	1		
Do.....	Dec. 31-Jan. 6.....	3		

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

**Reports Received from Dec. 30, 1916, to Apr. 6, 1917—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Switzerland:				
Zurich.....	Dec. 3-9.....	1		
Do.....	Jan. 1-31.....	3		
Tunisia:				
Tunis.....	Dec. 16-22.....	1		
Turkey in Asia:				
Haifa.....	Oct. 16-22.....	1		
Trebizond.....	Dec. 17-30.....	3	3	
Do.....	Dec. 31-Feb. 3.....		3	

## **YELLOW FEVER.**

Brazil:				
Espirito Santo, State.....	Jan. 27-Feb. 3.....	11	4	
Ecuador:				
Babahoyo.....	Nov. 1-30.....	1	1	
Chobo.....	do.....	1		
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-Dec. 31.....	46	24	
Do.....	Jan. 1-31.....	17	7	
Milagro.....	Sept. 1-30.....	1		
Do.....	Oct. 1-31.....	2	1	
Do.....	Jan. 1-31.....	1		
Gold coast.....				In 1915: Cases, 2; deaths, 2. European and native.