

# PUBLIC HEALTH REPORTS

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## TETANUS IN COURT-PLASTER.

A report just received from the Director of the Hygienic Laboratory of the Public Health Service states that out of 13 specimens of court-plaster examined, 2 were found to be contaminated with tetanus bacilli. The specimens were secured from drug stores and were in original packages just as the product goes to the consumer. There is no ground for believing that the contamination was an intentional one. Whether contamination occurred during the process of manufacture through the use of infected ingredients, or subsequently by careless handling remains to be determined by further investigation.

It was also found that court-plaster is not "clean" in the surgical sense.

The report of the laboratory findings in the examination of the specimens of court-plaster appears elsewhere in this issue.

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## RODENT DESTRUCTION ON SHIPS.

**A REPORT ON THE RELATIVE EFFICIENCY OF FUMIGANTS AS DETERMINED BY SUBSEQUENT INTENSIVE TRAPPING OVER A PERIOD OF ONE YEAR.**

By R. H. CREEL, Assistant Surgeon General, and FRIENCH SIMPSON, Passed Assistant Surgeon, United States Public Health Service.

Much has been written of the effectiveness of various agents used in the fumigation of ships for the purpose of destroying rats, but thus far practically all definite data have been obtained from experimental studies performed under artificial conditions.

For many years arbitrary standards for the strength of sulphur dioxide as a fumigant have been provided in the United States quarantine regulations and the length of exposure has been likewise indicated. Although based on experimental investigation, the effectiveness of these standards has been supported to some extent by the general observations of quarantine officials. It has frequently been noted that a very large number of rats have been killed on ships as a

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result of sulphur fumigation, but regardless of the number destroyed it has always been a matter of speculation as to how many survived.

In more recent years tentative standards have been adopted for the cyanide fumigation of vessels, both as to strength of the gas and duration of exposure. It is repeated, however, that both the standards for sulphur dioxide and cyanide gas were based on experimental studies, and, as is well known, artificial conditions rarely coincide with the natural, however painstaking the attempt may be to simulate the natural. A true test of efficiency would be that applied to the procedure as carried out in routine practice. Generally speaking, an opportunity for such practical test has been wanting until recently.

During the past year the combination of conditions at New Orleans made such a test feasible. These favorable circumstances were, first, the fumigation of a large number of vessels at the port of New Orleans and at the Service quarantine station at the mouth of the Mississippi River; second, the availability of a large and experienced force of trappers at New Orleans. The Public Health Service, in carrying out plague eradication and preventive measures in the city of New Orleans, has maintained an adequate force of trappers throughout the entire city, and during the past year or two those men trapping along the wharves and river front have been specially selected for their efficiency and reliability, and their work has had the very closest supervision. The pattern of trap generally employed (almost exclusively so) was the snap trap, and on the various vessels trapped the number used has varied from 20 to 140, according to the size of the vessel. The number of days trapped varied from one to ten, depending on the length of the vessel's stay in port.

Accordingly, therefore, it was planned to make careful record of the intensive trapping of all vessels subsequent to their fumigation, and in this way to obtain a fairly reliable estimate of the efficiency of the fumigation. Record was maintained of the results on 214 vessels, the inclusion of a greater number of vessels fumigated being precluded by inability of trapping on account of the departure of the vessel immediately after fumigation.

The results obtained are divided into groups, according to the nature of the fumigant employed, and the part of the vessel where the rats were either destroyed by the fumigation or were subsequently trapped. The proportion of cyanide used was 5 ounces per 1,000 cubic feet of space with duration of exposure of 1½ hours for holds and one-half hour for superstructures. Some 10 vessels fumigated with cyanide at the New Orleans quarantine station were not taken into consideration as they varied somewhat in the proportion of cyanide and duration of exposure from those fumigated at the city of New Orleans. Throwing out of consideration these 10 vessels,

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however, produced no material change in the estimate of efficiency of that gas. Sulphur when used was in the proportion of 3 pounds per 1,000 cubic feet of space, with duration of exposure of 6 hours for holds and superstructures alike.

### Series 1.

#### VESSELS FUMIGATED EITHER WITH CYANIDE GAS OR SULPHUR DIOXIDE.

In this group the results of fumigation are considered in respect to the entire vessel, regardless of the condition of the ship (loaded or empty) or location from which rats were taken.

TABLE 1.

Nature of fumigant.	Number of vessels treated.	Number of rats killed by fumigant.	Number of rats trapped.	Percentage of efficiency of fumigant.
Sulphur dioxide.....	62	747	223	<i>Per cent.</i> 77
Cyanide gas.....	182	2,811	121	95

Table 1 affords a fair estimate of the relative efficiency of cyanide gas and sulphur dioxide. It would appear that whereas cyanide fumigation of 182 vessels resulted in the destruction of 95 of each possible 100 rodent inhabitants, sulphur dioxide destroyed only 77 of a possible 100 in a series of 62 vessels treated with that fumigant, and this notwithstanding that the duration of exposure to sulphur fumes was 6 hours, in contrast to 1½ hours or less when cyanide was used.

### Series 2.

TABLE 2.

Nature of fumigant.	Number of vessels recorded.	Compartment of vessel considered.	Number of rats killed by fumigation.	Number of rats subsequently trapped.	Percentage of efficiency of fumigant.
Sulphur dioxide.....	32	Superstructure¹.....	133	107	55
Cyanide gas.....	31	do.¹.....	729	45	94
Sulphur dioxide.....	28	Holds (empty).....	702	28	96
Cyanide gas.....	34	do.....	854	9	99
Sulphur dioxide.....	10	Holds (loaded).....	104	59	64
Cyanide gas.....	10	do.....	80	20	80

¹ Superstructures include storerooms, crews' quarters, cabins, poop deck, etc.

Table 2 represents the efficiency of fumigation as applied to various compartments, such as superstructures and holds, both empty and loaded. The various groups recorded in Table 2 are those taken from Table 1 in all cases where rodents were reported with reference to compartment of ship as either destroyed by fumigation or captured

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by trapping. The groups in Table 2 do not represent partially fumigated vessels, since all vessels were fumigated throughout, excepting engine rooms of some vessels. The comparatively smaller number of vessels in Table 2 is due to the fact that during the first six months, reports included only total number of rats without reference to compartments from which taken, and also that on a considerable number of vessels negative results were reported both as to trapping and fumigation. The grouping was made from records where available and thus can not be considered as "selected cases."

The results obtained from the two methods of fumigation are contrasted and indicated in the table, and it will be noted that there is a very marked disparity in the efficiency of sulphur dioxide as compared with cyanide gas, in the treatment of superstructures. These compartments, such as store rooms, poop decks, crews' quarters, etc., are generally partially filled with supplies, stores, dunnage, etc., and it would appear that the greater effectiveness of cyanide gas is due to its greater penetrating powers, as well as toxicity. It may also be that sulphur dioxide, on account of its odor, may provide more of a warning to the rats and enable them to secure greater protection; whereas cyanide with less odor and without the physically irritating properties of sulphur dioxide, may result in the destruction of the animal before it can secure available covert.

In the fumigation of the empty holds of vessels there is no material difference in the results obtained, although here as elsewhere there should be considered the difference in the length of exposure. Considering the respective gases, the results on vessels fumigated with cargo-laden holds indicate a greater efficiency for cyanide gas, although the number of vessels tabulated is rather small for the establishment of any general conclusions. Conditions in storerooms, crews' quarters, poop decks, etc., are more or less similar to those of loaded holds, and on the basis of the results of the fumigation of these superstructures, it is believed that it can safely be asserted that cyanide gas is far more effective in the fumigation of loaded holds than is sulphur dioxide.

#### **Rodent Infestation of Engine Fireroom.**

The question frequently arises in the minds of quarantine officers as to the advisability or necessity of including the engine fireroom of a vessel when performing fumigation for rodent destruction. Inasmuch as there is very limited harborage in the engine fireroom, and very little in the way of food to invite rat infestation, it is generally considered that the fumigation of this compartment is of questionable value. Aside from this aspect of the case, the thorough fumigation of the engine fireroom entails a very considerable increase

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in the detention of vessels undergoing fumigation, since the fires have to be either drawn or banked, and the funnels carefully covered over with tarpaulin in order to prevent the escape of the fumigating gas. Subsequent to the fumigation of these compartments there is a further delay incident to renewing the fires or raising steam.

From the records maintained during the past year opportunity has presented for estimating the amount of rodent infestation of engine firerooms. In the case of 99 vessels fumigation of these compartments was omitted. The total number of rats killed in other parts of vessels by fumigation was 2,026. The trapping of these 99 vessels resulted in the capture of 31 rats in engine fireroom, the total being taken from 11 vessels. Computed on the total number of vessels considered it would appear that the rodent infestation of the engine fireroom compartment was one-third rat per vessel. Computed on the total infestation, the number infesting the engine fireroom compartment was  $1\frac{1}{2}$  per cent.

The number of days each vessel was trapped varied from 1 to 13, and the average number of days trapped for each vessel was 3.6 days. The number of traps placed on the vessels ranged from 15 to 140, according to the size of the vessel. The average number of traps placed was 37 traps to each vessel. On one vessel on which 172 rats were destroyed by fumigation, and on which the engine fireroom was not fumigated, three days' trapping of this compartment failed to demonstrate any rodent infestation. The same applies to two other vessels, on one of which 109 rats were taken and on the other 140 rats. On the other hand, of the 11 vessels on which rats were trapped in the engine fireroom, one ship yielded 8 rats captured in this compartment during the 13 days of trapping, although only 3 rats were killed in the other parts of the vessel. This was a very exceptional case, as in most instances where rats were trapped in non-fumigated engine fireroom compartments the number was generally one or two.

#### General Conditions.

The writers have considered two sources of error in presenting these figures: First, notwithstanding the thorough search of vessels, it is probable that a certain number of rats destroyed by fumigation were not recovered by the searchers, and to this extent, therefore, the percentage of efficiency would be greater than that indicated; second, while it is believed that the trapping results were fairly dependable, and for the most part represented (with the exception of a negligible figure) the total number of rats that escaped fumigation, it is nevertheless apparent that trapping results can not be considered as perfect, and to this extent the percentage of fumigation efficiency

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would be less than that indicated. After thorough consideration of both factors, knowledge of the dependability and efficiency of the trappers and fumigators, and the general conditions attending both the fumigation and trapping of vessels, the writers are of the belief that the one source of error will offset the other, and that the percentages of efficiency indicated in Table 1 and Table 2 are trustworthy.

It is apparent that sulphur fumigation is not effective for the destruction of rats on loaded vessels or in superstructures. Whether this deficiency can be remedied by an increase in the amount of sulphur used or in prolonging the exposure, or whether a change in the procedure would be justifiable in the face of results of cyanide fumigation, are problems requiring further consideration.

The effectiveness of cyanide gas when used according to the tentative standards now in practice seems sufficient for empty holds and superstructures. It would seem probable, however, that in vessels with cargo-laden holds either a greater strength of the gas is required or a more prolonged duration of exposure. It is not to be expected, however, that any method of fumigation can result in 100 per cent efficiency.

Judging from the results of our observations it would appear that the fumigation of engine and fire rooms can, under ordinary conditions, be omitted, without materially reducing the effectiveness of the destruction of rodents on vessels. The omission of the fumigation of these compartments on 99 vessels apparently resulted in the escape of  $1\frac{1}{2}$  per cent of the rodent inhabitants, but inasmuch as it seems probable that in ordinary practice the efficiency of fumigation can not be expected to exceed 96 per cent, the addition of  $1\frac{1}{2}$  per cent in effectiveness seems immaterial. In exceptional cases, such as demonstrable plague infection on board vessels, it is believed that the engine and fire rooms should be included in the procedure.

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## TETANUS IN COURT-PLASTER.

### RESULTS OF THE BACTERIOLOGICAL EXAMINATION OF 14 SPECIMENS.

By G. W. MCCOY, Director, Hygienic Laboratory, J. P. LEAKE, Passed Assistant Surgeon, and H. B. CORBETT, Sanitary Bacteriologist, United States Public Health Service.

So much has appeared in the public press about alleged intentional contaminations of court-plaster with tetanus, and so many inquiries have reached this laboratory on the same subject, that the following record of our experience with the examination of court-plaster is presented.

We have no evidence whatever that any specimen we examined was deliberately contaminated. Indeed, so far as our work goes, we do

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not have clear evidence that the court-plaster as it leaves the manufacturer carries the organism of tetanus; but we have proved that when the plaster reaches the user this organism may be present.

#### Source of Material.

The first specimen submitted for examination came from a State department of health. This specimen did not bear the name of the maker, though it did bear that of the distributor.

When work on this specimen indicated that tetanus was present, but before the results could be considered conclusive, we secured 13 other specimens by purchase from local pharmacies. Two of these specimens showed the presence of the tetanus organism.

#### Technique.

The medium we used for the cultivation was plain broth made from veal. The reaction was +0.5 per cent to phenolphthalein. The broth was sterilized in Smith fermentation tubes by streaming steam for 1½ hours at 100° C. Just prior to use, these were steamed for 30 minutes at 100° C. in the Arnold sterilizer and the air was removed by tilting.

The court-plaster was cut into pieces about 1 centimeter square, or a little larger, and one piece put into each fermentation tube. After incubating for three or four days, smears were made from the growth at the bottom of the bend of the tubes in which gas was present in the closed arm. When the Gram staining showed that characteristic drumstick-shaped organisms with a terminal spore were present, the culture was incubated for three days longer, at which time it was used to inoculate mice. In the majority of cases two series of animals (mice) were used, one having been given a protective dose of antitetanus serum.

A pure culture of the tetanus bacillus was isolated from one of the tubes by planting dilutions in deep tubes of melted agar and picking characteristic colonies.

#### Summary of Experiments.

Specimen 1. In all, 64 fermentation tubes were inoculated with small pieces of court-plaster, using three sheets. Thirty-three of these showed gas in the closed arm of the tube after three days. Smear preparations showed tetanuslike organisms in the great majority of the tubes showing gas.

A small amount of the culture, 0.01 cubic centimeter to 1 cubic centimeter from each tube, was used to inoculate each white mouse. Thirty-seven of the animals died during the ensuing night, but it was not known whether characteristic symptoms preceded death.

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However, four showed distinct symptoms of tetanus in from 18 to 42 hours.

While we felt certain that the tetanus germ was present, it was realized that the evidence was not wholly convincing, and resort was had to protection tests, as is shown by the following protocol. The most promising tubes, judged by gross and microscopical appearance, were selected for the test. Each of the "protected" animals was given 10 units of commercial antitetanus serum about 30 minutes before the inoculation with cultures.

Guinea pigs.				White mice.		
Tube No.	Volume of culture given.	Protected (10 units of anti-toxin), results.	Controls (no anti-toxin), symptoms, and results.	Volume of culture given.	Protected (10 units of anti-toxin), results.	Controls (no anti-toxin), symptoms, and results.
B 6.....	c. c. 0.1	No symptoms; discharged well twenty-second day.	Tetanus; died second day.	c. c. 0.1	No symptoms of tetanus; died sixth day.	Tetanus under 17 hours; died 18 hours.
	.01	.....do.....	Tetanus; died third day.	.01	.....do.....	Tetanus; died second day.
	.001	.....do.....	Remained well...	.001	Died under 17 hours; symptoms not observed. <sup>1</sup>	Slight symptoms 44 hours; severe later; chloroformed; moribund sixth day.
	.1	.....do.....	Tetanus; died second day.	.1	No symptoms of tetanus; died fourteenth day.	Died under 17 hours; symptoms not observed.
P 8 <sup>2</sup> .....	.01	.....do.....	Tetanus; killed second day while moribund.	.01	No symptoms of tetanus; died sixth day.	Do.
	.001	.....do.....	Tetanus; died third day.	.001	No symptoms of tetanus; died seventh day.	Tetanus; died second day.
	.0001	.....do.....	Remained well...	.0001	No symptoms of tetanus; died fifteenth day.	Symptoms fourth day; marked sixth day.
	.1	.....do.....	Tetanus; died second day.	.1	No symptoms of tetanus; died sixth day.	Dead under 17 hours; symptoms not observed.
P 9.....	.01	.....do.....	Tetanus; killed third day while moribund.	.01	.....do.....	Tetanus under 17 hours; died second day.
	.001	.....do.....	Remained well...	.001	.....do.....	Symptoms second day; marked sixth day.

<sup>1</sup> Cause of death unknown. Had the cause of death been tetanus, the mouse receiving the largest dose of culture should have died, not the one on the smallest dose.

<sup>2</sup> Later this tube yielded a pure culture of the tetanus organism.

Specimens 2 to 14 (inclusive): These specimens were purchased at various drug stores in Washington. Culture tubes were inoculated as in the preceding experiment; however, but two fermentation tubes were inoculated from each package. On the third day after planting smears were examined, and on the sixth day the

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material was used to inoculate a series of "protected" and a series of normal white mice, with results which are shown in the following table. On account of shortage of mice, fewer were used than in the preceding examination.

*Mice.*

Specimen.	Smears from fermentation tubes on third day.	Dose of culture (sixth day).	"Protected" (10 units of antitoxin), results.	Controls (no antitoxin), symptoms, results.
2	Negative.....	Cc.		
3	Tetanuslike organisms.....	None.		
4	.....do.....	0.1	Negative; discharged fifteenth day.	Negative; discharged fifteenth day.
5	Negative.....	.01	.....do.....	Do.
6	Tetanuslike organisms.....	None.	Negative; discharged fifteenth day.	Dead under 18 hours; symptoms not observed.
7	.....do.....	.1	.....do.....	Symptoms of tetanus after 24 hours; died third day.
8	.....do.....	.01	.....do.....	Negative; discharged fifteenth day.
9	.....do.....	.1	.....do.....	Died seventh day; not tetanus.
10	Negative.....	.01	.....do.....	Negative; discharged fifteenth day.
11	Suspicious.....	None.	.....do.....	Do.
12	.....do.....	None.	.....do.....	Dead under 18 hours; symptoms not observed.
13	Negative.....	None.	.....do.....	Do.
14	Suspicious.....	.1	Negative; discharged fifteenth day.	Negative; discharged fifteenth day.
		.01	.....do.....	Do.

This series demonstrated that specimen 6 was contaminated with tetanus. The symptoms in the mouse given 0.01 cubic centimeter of culture were quite characteristic.

As both of the control mice inoculated with culture No. 9 died in the night following the day of inoculation without symptoms being observed, a series was inoculated with the seven-day culture and included smaller doses than in the preceding experiment. The "protected" mice received the usual dose, 10 units of antitetanus serum.

Dose of culture 9.	Protected (10 units of antitoxin), symptoms and results.	Controls (no antitoxin), symptoms and results.
cc.		
0.1	Symptoms suggestive of tetanus 2, 3, and 4 days; recovered. Discharged well fourteenth day.	Pronounced symptoms tetanus, 18 hours; died, between 28 and 42 hours.
.01	Negative; discharged fourteenth.....	Pronounced symptoms tetanus, 42 hours; dead, 45 hours.
.001	.....do.....	Slight symptoms tetanus fourth to eighth day; recovered.
.0001	.....do.....	No symptoms.

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It would seem that the antitoxin failed to neutralize completely the 0.1 cubic centimeter dose of culture.

This series demonstrated that culture 9 also contained tetanus, which with the positive results from culture 6 gave 2 positives among the 13 specimens. We consider it not improbable that had a larger number of pieces of plaster been planted, as was done with specimen 1, a larger number of positive results would have been secured.

NOTE.—In order to determine approximately the degree of contamination of court-plaster with aerobic organisms, four specimens were examined in the following manner: A single sheet of the size found in the package was shaken with 100 cubic centimeters of sterile 0.6 per cent sodium chloride solution, and 1 cubic centimeter of the suspension plated on plain agar. Colonies were counted after three days. The number of organisms per sheet was estimated as follows:

Specimen 1.....	1,300
Specimen 2.....	2,700
Specimen 3.....	1,500
Specimen 4.....	7,000

No attempt was made to identify the organisms.

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# PREVALENCE OF DISEASE.

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

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## UNITED STATES.

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### CURRENT STATE SUMMARIES.

#### California Report for the Week Ended September 1, 1917.

The California State Board of Health reported concerning the status of preventable diseases in California for the week ended September 1, 1917, as follows: The cases of typhoid fever showed an increase during the week, with 52 reported cases in the State. The disease was unusually prevalent in Riverside County, in Hemet and vicinity, and in Los Angeles, where 12 cases were reported. Five cases of cerebrospinal meningitis were reported, 3 of which were in San Diego and 1 each in Contra Costa County and Oakland city. Scarlet fever and pneumonia showed some increase, while other reportable diseases showed reductions.

The details of notifiable-disease cases reported during the week ended August 25, are as follows:

Chicken pox.....	17	Pneumonia.....	15
Diphtheria.....	23	Poliomyelitis.....	1
Dysentery.....	2	Scarlet fever.....	33
Erysipelas.....	8	Smallpox.....	2
German measles.....	28	Syphilis.....	30
Gonococcus infection.....	60	Tetanus.....	2
Malaria.....	33	Trachoma.....	1
Measles.....	38	Tuberculosis.....	106
Mumps.....	37	Typhoid fever.....	47
Pellagra.....	1	Whooping cough.....	29

### CEREBROSPINAL MENINGITIS.

#### Minnesota.

During the period from January 1, to September 1, 1917, 338 cases of cerebrospinal meningitis, with 165 deaths, were reported in the State of Minnesota.

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**CEREBROSPINAL MENINGITIS—Continued.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Boston, Mass.....	1	1	Milwaukee, Wis.....	2	1
Buffalo, N. Y.....	1	1	Minneapolis, Minn.....	1	1
Chicago, Ill.....	8	3	Newark, N. J.....	3	7
Cleveland, Ohio.....	5	2	New York, N. Y.....	4	3
Columbus, Ohio.....	1	1	Passaic, N. J.....	1	1
Detroit, Mich.....	2	4	Philadelphia, Pa.....	4	3
Everett, Mass.....	1	1	Pittsburgh, Pa.....	1	2
Fall River, Mass.....	1	1	Saginaw, Mich.....	1	1
Fort Wayne, Ind.....	1	1	St. Louis, Mo.....	2	1
Hartford, Conn.....	1	1	Salt Lake City, Utah.....	1	1
Kansas City, Mo.....	1	1	Winston-Salem, N. C.....	1	1
McKeesport, Pa.....	1	1			

**DIPHTHERIA.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1460.

**ERYSIPELAS.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Buffalo, N. Y.....	1	1	Newark, N. J.....	2	2
Chicago, Ill.....	3	1	New York, N. Y.....	2	1
Cleveland, Ohio.....	2	1	Philadelphia, Pa.....	2	1
Denver, Colo.....	1	1	Pittsburgh, Pa.....	1	1
Detroit, Mich.....	3	1	Rochester, N. Y.....	1	1
Kalamazoo, Mich.....	1	1	St. Louis, Mo.....	3	1
Kansas City, Mo.....	1	1	San Francisco, Cal.....	2	1
Los Angeles, Cal.....	2	1	York, Pa.....	1	1
Milwaukee, Wis.....	1	1			

**MALARIA.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	1	1	Memphis, Tenn.....	4	2
Birmingham, Ala.....	147	1	Newark, N. J.....	1	1
Charleston, S. C.....	1	1	New Orleans, La.....	1	1
Columbia, S. C.....	3	1	Stockton, Cal.....	1	1
Little Rock, Ark.....	4	1			

<sup>1</sup> The reason that Birmingham had so many more cases of malaria reported than any other city is not that the disease is more prevalent in Birmingham than in other cities of Alabama and neighboring States, but undoubtedly because of the successful efforts the health department has made in securing the cooperation of the practicing physicians in reporting cases.

**MEASLES.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1460.

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**PELLAGRA.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.		1	Memphis, Tenn.	12	
Birmingham, Ala.	14	2	Mobile, Ala.		1
Boston, Mass.	1	1	Nashville, Tenn.	3	1
Charleston, S. C.		1	Oklahoma City, Okla.		1
Chicago, Ill.		1	Washington, D. C.	2	1
Columbia, S. C.	2	1	Winston-Salem, N. C.		1
Fort Worth, Tex.		2			

<sup>1</sup> The reason that Birmingham had so many more cases of pellagra reported than any other city is not that the disease is more prevalent in Birmingham than in other cities of Alabama and neighboring States, but undoubtedly because of the successful efforts the health department has made in securing the cooperation of the practicing physicians in reporting cases.

**PLAGUE.****Hawaii—Kukaiiau.**

On September 2, 1917, two fatal cases of plague were reported at Kukaiiau, Hawaii.

**POLIOMYELITIS (INFANTILE PARALYSIS).****Minnesota.**

During the period from January 1 to August 31, 1917, 47 cases of poliomyelitis, with 4 deaths, were reported in the State of Minnesota.

**City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.	5		New Castle, Pa.	14	
Chicago, Ill.	7	1	New York, N. Y.	2	2
Davenport, Iowa.	2		Omaha, Nebr.	2	
Detroit, Mich.	2		Pittsburgh, Pa.	1	
Fall River, Mass.	1	1	San Francisco, Cal.	1	
Haverhill, Mass.	7		Sioux City, Iowa.	1	
Kansas City, Kans.	1		Washington, D. C.	1	
Kansas City, Mo.	2		Wheeling, W. Va.	1	
Newark, N. J.		2			

**PNEUMONIA.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.	1	5	Lawrence, Mass.	1	1
Boston, Mass.	2	5	Los Angeles, Cal.	1	1
Chicago, Ill.	32	29	Lowell, Mass.	1	1
Cleveland, Ohio.	10	12	Manchester, N. H.	1	1
Detroit, Mich.	3	9	Newark, N. J.	14	1
Fitchburg, Mass.	2		Philadelphia, Pa.	15	13
Flint, Mich.	1		Pittsburgh, Pa.	8	9
Jackson, Mich.	1	1	Rochester, N. Y.	3	2
Kansas City, Mo.	1	3	San Francisco, Cal.	10	3

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**RABIES IN ANIMALS.****City Reports for Week Ended August 18, 1917.**

During the week ended August 18, 1917, one case of rabies in animals was reported in Alameda, Cal., two cases were reported in Detroit, Mich., and one case was reported in Los Angeles, Cal.

**SCARLET FEVER.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1460.

**SMALLPOX.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	3	.....	La Crosse, Wis.....	1	.....
Austin, Tex.....	1	.....	Little Rock, Ark.....	1	.....
Buffalo, N. Y.....	1	.....	Milwaukee, Wis.....	1	.....
Butte, Mont.....	5	.....	Minneapolis, Minn.....	2	.....
Cleveland, Ohio.....	3	.....	Oklahoma City, Okla.....	2	.....
Dayton, Ohio.....	2	.....	Omaha, Nebr.....	4	.....
Denver, Colo.....	2	.....	Rock Island, Ill.....	2	.....
Detroit, Mich.....	.....	3	St. Joseph, Mo.....	2	.....
Dubuque, Iowa.....	1	.....	St. Louis, Mo.....	1	.....
Flint, Mich.....	1	.....	Salt Lake City, Utah.....	12	.....
Indianapolis, Ind.....	3	.....	Sioux City, Iowa.....	3	.....
Kansas City, Mo.....	1	.....	Terre Haute, Ind.....	1	.....

**TETANUS.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Canton, Ohio.....	.....	1	Los Angeles, Cal.....	1	1
Chicago, Ill.....	.....	1	New Orleans, La.....	.....	1
Detroit, Mich.....	.....	1	Norfolk, Va.....	.....	1
Erie, Pa.....	1	.....	Oakland, Cal.....	.....	1
Evansville, Ind.....	.....	1	Pittsburgh, Pa.....	.....	1
Kansas City, Mo.....	.....	1	Springfield, Mass.....	1	.....

**TUBERCULOSIS.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 1460.

**TYPHOID FEVER.****Kansas—Leavenworth.**

During the week ended September 1, 1917, 16 cases of typhoid fever were reported in the city of Leavenworth, Kans., and 3 cases in Leavenworth County.

**Tennessee—Chattanooga.**

The outbreak of typhoid fever which prevailed at Chattanooga, Tenn., during July and the first half of August has subsided. Only 10 cases were reported between August 20 and September 1 and none since September 1.

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

**TYPHOID FEVER—Continued.****City Reports for Week Ended Aug. 18, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	5	.....	Memphis, Tenn.....	19	1
Allentown, Pa.....	1	1	Milwaukee, Wis.....	2	.....
Alton, Ill.....	4	.....	Minneapolis, Minn.....	3	.....
Altoona, Pa.....	1	.....	Mobile, Ala.....	3	.....
Atlantic City, N. J.....	4	.....	Montclair, N. J.....	2	.....
Baltimore, Md.....	15	.....	Nashville, Tenn.....	11	2
Beaver Falls, Pa.....	2	1	Newark, N. J.....	8	1
Birmingham, Ala.....	33	2	New Bedford, Mass.....	6	.....
Boston, Mass.....	9	.....	New Haven, Conn.....	4	.....
Bridgeport, Conn.....	3	.....	New Orleans, La.....	15	6
Buffalo, N. Y.....	6	.....	Newton, Mass.....	2	.....
Camden, N. J.....	2	.....	New York, N. Y.....	39	8
Canton, Ohio.....	2	1	Norfolk, Va.....	8	1
Charleston, S. C.....	4	.....	Oakland, Cal.....	2	.....
Chattanooga, Tenn.....	14	3	Oklahoma City, Okla.....	.....	2
Chelsea, Mass.....	3	.....	Omaha, Nebr.....	4	.....
Chicago, Ill.....	19	1	Philadelphia, Pa.....	26	4
Cincinnati, Ohio.....	4	.....	Pittsburgh, Pa.....	11	2
Cleveland, Ohio.....	7	1	Plainfield, N. J.....	3	.....
Coffeyville, Kans.....	4	.....	Portland, Oreg.....	.....	1
Columbia, S. C.....	3	.....	Portsmouth, Va.....	2	.....
Columbus, Ohio.....	2	.....	Providence, R. I.....	1	.....
Cumberland, Md.....	2	.....	Quincy, Mass.....	1	.....
Danville, Ill.....	2	.....	Racine, Wis.....	1	.....
Dayton, Ohio.....	4	.....	Reading, Pa.....	2	.....
Denver, Colo.....	5	.....	Richmond, Va.....	5	.....
Detroit, Mich.....	14	3	Reno, Va.....	10	.....
Duluth, Minn.....	2	.....	Rockford, Ill.....	1	1
East Orange, N. J.....	1	.....	Rock Island, Ill.....	1	.....
Elizabeth, N. J.....	8	1	Rocky Mount, N. C.....	2	.....
Evansville, Ind.....	12	.....	Sacramento, Cal.....	1	.....
Everett, Mass.....	1	.....	St. Joseph, Mo.....	2	.....
Fall River, Mass.....	10	1	St. Louis, Mo.....	29	.....
Fort Wayne, Ind.....	1	.....	Salt Lake City, Utah.....	7	.....
Fort Worth, Tex.....	2	1	San Francisco, Cal.....	4	1
Grand Rapids, Mich.....	1	.....	Savannah, Ga.....	9	.....
Harrisburg, Pa.....	.....	2	South Bend, Ind.....	.....	1
Hartford, Conn.....	2	1	Springfield, Ill.....	3	1
Haverhill, Mass.....	1	.....	Springfield, Mass.....	1	.....
Hoboken, N. J.....	1	.....	Steelton, Pa.....	1	.....
Indianapolis, Ind.....	3	.....	Stockton, Cal.....	2	1
Jersey City, N. J.....	1	2	Topeka, Kans.....	3	.....
Johnstown, Pa.....	5	.....	Troy, N. Y.....	1	.....
Kansas City, Kans.....	1	.....	Washington, D. C.....	12	3
Kansas City, Mo.....	7	.....	Washington, Pa.....	1	.....
Knoxville, Tenn.....	14	.....	Watertown, N. Y.....	7	.....
Lancaster, Pa.....	3	.....	West Hoboken, N. J.....	2	.....
Lexington, Ky.....	7	.....	Wheeling, W. Va.....	5	.....
Lima, Ohio.....	2	.....	Wichita, Kans.....	8	.....
Little Rock, Ark.....	5	.....	Wilkes-Barre, Pa.....	1	.....
Los Angeles, Cal.....	13	2	Wilmington, Del.....	.....	1
Lowell, Mass.....	2	.....	Wilmington, N. C.....	1	.....
Lynchburg, Va.....	5	.....	Winston-Salem, N. C.....	16	2
Lynn, Mass.....	1	.....	Worcester, Mass.....	3	.....
Manchester, N. H.....	1	.....	York, Pa.....	1	.....
McKeesport, Pa.....	1	1			

**TYPHUS FEVER.****City Report for Week Ended August 18, 1917.**

During the week ended August 18, 1917, a case of typhus fever was reported in New York, N. Y.

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

City Reports for Week Ended Aug. 18, 1917.

City.	Population as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.....	589,621	165	5	.....	14	.....	3	.....	18	18
Boston, Mass.....	756,476	173	63	4	15	.....	9	1	65	20
Chicago, Ill.....	2,497,722	625	95	15	46	1	46	1	223	58
Cleveland, Ohio.....	674,073	41	20	3	8	.....	3	.....	38	20
Detroit, Mich.....	571,784	.....	57	7	8	.....	35	.....	26	13
Los Angeles, Cal.....	503,812	.....	4	.....	3	.....	5	.....	37	15
New York, N. Y.....	5,602,841	1,359	178	11	101	4	19	3	403	174
Philadelphia, Pa.....	1,708,518	476	25	4	6	1	7	1	66	42
Pittsburgh, Pa.....	579,080	205	15	3	9	1	4	1	31	16
St. Louis, Mo.....	757,309	180	25	4	1	.....	14	.....	40	18
From 300,000 to 500,000 inhabitants:										
Buffalo, N. Y.....	468,558	.....	5	2	3	1	4	.....	33	17
Cincinnati, Ohio.....	410,476	105	7	1	.....	.....	4	.....	16	17
Jersey City, N. J.....	306,345	75	4	.....	7	.....	1	.....	23	7
Milwaukee, Wis.....	436,535	76	14	1	3	.....	11	.....	17	7
Minneapolis, Minn.....	363,454	.....	8	.....	14	.....	4	.....	.....	.....
Newark, N. J.....	408,894	.....	7	.....	14	.....	2	.....	37	19
New Orleans, La.....	371,747	130	12	1	.....	.....	.....	.....	14	15
San Francisco, Cal.....	463,516	117	10	1	23	.....	5	1	33	7
Washington, D. C.....	363,980	123	2	.....	13	1	3	1	23	13
From 200,000 to 300,000 inhabitants:										
Columbus, Ohio.....	214,878	59	3	.....	2	.....	1	.....	7	5
Denver, Colo.....	260,800	58	12	.....	9	1	1	.....	.....	11
Indianapolis, Ind.....	271,708	.....	30	.....	1	.....	4	.....	7	.....
Kansas City, Mo.....	297,847	.....	4	1	.....	.....	1	.....	71	14
Portland, Oreg.....	295,463	42	.....	.....	.....	.....	2	.....	5	4
Providence, R. I.....	254,960	63	11	1	1	1	1	.....	.....	2
Rochester, N. Y.....	256,417	64	.....	1	8	.....	3	1	14	7
From 100,000 to 200,000 inhabitants:										
Albany, N. Y.....	104,199	.....	.....	.....	.....	.....	.....	.....	5	.....
Birmingham, Ala.....	181,762	80	3	.....	2	.....	.....	.....	17	3
Bridgeport, Conn.....	121,579	25	4	.....	.....	.....	.....	.....	8	2
Cambridge, Mass.....	112,981	.....	4	.....	5	.....	.....	.....	11	2
Camden, N. J.....	106,233	.....	1	.....	.....	.....	.....	.....	2	.....
Dayton, Ohio.....	127,224	34	2	.....	2	.....	5	.....	4	1
Fall River, Mass.....	128,366	49	3	.....	4	.....	.....	.....	14	1
Fort Worth, Tex.....	104,562	26	.....	.....	1	.....	.....	.....	1	1
Grand Rapids, Mich.....	128,291	34	2	1	.....	.....	1	.....	15	1
Hartford, Conn.....	110,900	43	6	1	1	.....	1	.....	9	2
Lawrence, Mass.....	100,560	33	.....	.....	.....	.....	.....	.....	2	2
Lowell, Mass.....	113,245	.....	.....	.....	.....	.....	.....	.....	2	2
Lynn, Mass.....	102,425	14	3	.....	.....	.....	.....	.....	5	6
Memphis, Tenn.....	148,995	48	3	.....	1	.....	4	.....	18	6
Nashville, Tenn.....	117,057	.....	.....	.....	.....	.....	1	.....	6	5
New Bedford, Mass.....	118,158	28	4	.....	8	.....	4	.....	8	1
New Haven, Conn.....	149,685	.....	2	.....	4	.....	1	.....	4	2
Oakland, Cal.....	198,604	31	2	.....	1	.....	2	.....	4	3
Omaha, Nebr.....	165,470	46	1	.....	.....	.....	1	.....	.....	2
Reading, Pa.....	109,381	45	1	.....	1	.....	.....	.....	.....	2
Richmond, Va.....	156,687	52	6	1	1	.....	.....	.....	1	7
Salt Lake City, Utah.....	117,399	23	1	.....	.....	.....	2	.....	.....	.....
Springfield, Mass.....	105,942	28	3	1	.....	.....	3	.....	6	.....
Toledo, Ohio.....	191,554	67	4	1	.....	.....	2	2	19	9
Worcester, Mass.....	163,314	58	3	.....	.....	.....	3	.....	.....	3
From 50,000 to 100,000 inhabitants:										
Akron, Ohio.....	85,625	.....	4	.....	.....	.....	3	.....	.....	.....
Allentown, Pa.....	63,505	17	1	.....	.....	.....	.....	.....	3	.....
Altoona, Pa.....	58,659	.....	2	.....	.....	.....	.....	.....	1	.....
Atlantic City, N. J.....	57,660	.....	2	.....	2	.....	.....	.....	1	.....
Bayonne, N. J.....	69,893	.....	1	.....	.....	.....	1	.....	3	.....
Berkeley, Cal.....	57,653	8	1	.....	1	.....	1	.....	1	.....
Binghamton, N. Y.....	53,973	20	1	.....	1	.....	1	.....	4	2
Brockton, Mass.....	67,449	8	3	.....	.....	.....	.....	.....	3	.....
Canton, Ohio.....	60,852	24	.....	.....	.....	.....	1	.....	.....	.....
Charleston, S. C.....	60,734	24	3	.....	.....	.....	2	.....	.....	3
Chattanooga, Tenn.....	60,075	.....	.....	.....	.....	.....	.....	.....	.....	2
Covington, Ky.....	57,144	14	4	.....	.....	.....	.....	.....	.....	1
Duluth, Minn.....	94,495	6	2	.....	.....	.....	3	.....	4	.....
Elizabeth, N. J.....	86,690	13	4	.....	1	.....	.....	.....	9	3

ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?

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

City Reports for Week Ended Aug. 18, 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		3				1		2	26	
Evansville, Ind.	76,078	32	1	1					2	2	
Flint, Mich.	54,772	7	3		1						
Fort Wayne, Ind.	76,183	17	11	1					1	2	
Harrisburg, Pa.	72,015	19	1				2		4	2	
Hoboken, N. J.	77,214	24	2						3	5	
Johnstown, Pa.	68,529	21	1				2		4		
Kansas City, Kans.	99,437		1						4	1	
Lancaster, Pa.	50,853								1		
Little Rock, Ark.	57,343	12									
Malden, Mass.	51,155	6	4								
Manchester, N. H.	78,283	22			2				1		
Mobile, Ala.	58,221	21								4	
New Britain, Conn.	53,794	15									
Norfolk, Va.	89,612		1							1	
Oklahoma City, Okla.	92,943	22					1			2	
Passaic, N. J.	71,744	22	2				2		3	1	
Portland, Me.	63,867	20	1		5	1				1	
Rockford, Ill.	55,155	21	1							1	
Sacramento, Cal.	66,895	20	1						2	4	
Saginaw, Mich.	55,642	13					3		2		
St. Joseph, Mo.	85,236	20	1						1	4	
San Diego, Cal.	53,330	18	1						4	4	
Savannah, Ga.	68,805	27							1	2	
Schenectady, N. Y.	99,519	22	1			1			2	2	
Sioux City, Iowa.	57,078	1					2				
Somerville, Mass.	87,039									1	
South Bend, Ind.	68,946	15			1		1		2		
Springfield, Ill.	61,120	19								1	
Springfield, Ohio.	51,550	19	1						4	1	
Terre Haute, Ind.	66,083	16									
Troy, N. Y.	77,916		3		2		1		3	4	
Wichita, Kans.	70,722								4		
Wilkes-Barre, Pa.	76,776	30	3	1							
Wilmington, Del.	94,265	54	1		1					5	
York, Pa.	51,656		1						2		
From 25,000 to 50,000 inhabitants:											
Alameda, Cal.	27,732	7			2				2	1	
Austin, Tex.	34,814	22								2	
Brookline, Mass.	32,730	5			2						
Butler, Pa.	27,632	11					1				
Butte, Mont.	43,425		2				3		7		
Chelsea, Mass.	46,192	11	3	1			1			1	
Chicopee, Mass.	29,319	12	1						1	4	
Columbia, S. C.	34,611	15	1				5				
Cumberland, Md.	26,074	4	1						1		
Danville, Ill.	32,261	12								2	
Davenport, Iowa.	48,811				1				1		
Dubuque, Iowa.	39,873									2	
East Chicago, Ind.	28,743					1	1		1	1	
East Orange, N. J.	42,458								3		
Elgin, Ill.	28,203	2							1	1	
Everett, Mass.	39,233	4	3		2		1		3		
Fitchburg, Mass.	41,781	8			1		1		2		
Galveston, Tex.	41,893	10	1						1	2	
Green Bay, Wis.	29,353	7									
Hagerstown, Md.	25,679						1				
Hamilton, Ohio.	40,496	7							1	1	
Haverhill, Mass.	48,477		2			1			4		
Jackson, Mich.	35,363	8			1				1		
Kalamazoo, Mich.	48,886	18	1		4		3				
Kenosha, Wis.	31,576	7									
Knoxville, Tenn.	38,676		1				1		4		
La Crosse, Wis.	31,677	9	1								
Lexington, Ky.	41,097	16			1					1	
Lima, Ohio.	35,384	12	1								
Lincoln, Nebr.	46,515	13			1		1			2	
Long Beach, Cal.	27,587	12			1				3		

ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?

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

City Report for Week Ended Aug. 18, 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.										
Lorain, Ohio.....	36,964		3						1	
Lynchburg, Va.....	32,940	7								1
McKeesport, Pa.....	47,521	10	8		1		1			
Medford, Mass.....	26,234	4								1
Montclair, N. J.....	26,318	2			1		1		2	
Nashua, N. H.....	27,327	9	2				1			
Newburgh, N. Y.....	29,603	13			1				1	2
New Castle, Pa.....	41,133						1			
Newport, Ky.....	31,927	8							1	1
Newton, Mass.....	43,715	6	2		3					
Niagara Falls, N. Y.....	37,353	17	1						2	1
Norristown, Pa.....	31,401	5	5							1
Ogden, Utah.....	31,404	6								
Orange, N. J.....	33,080	7	2				3		1	
Pasadena, Cal.....	46,450	8					2		2	2
Perth Amboy, N. J.....	41,185	13	1						3	
Pittsfield, Mass.....	38,629				1				2	1
Portsmouth, Va.....	39,651	7					1			
Quincy, Ill.....	36,798	16	1		1					1
Quincy, Mass.....	38,136	5	4		2				2	
Racine, Wis.....	46,486	7							1	1
Roanoke, Va.....	43,284	17	2						4	4
Rock Island, Ill.....	28,926	8	2							
San Jose, Cal.....	38,902								2	
Steubenville, Ohio.....	27,445	11								
Stockton, Cal.....	35,358		1						4	
Superior, Wis.....	46,226	5	1				1			
Taunton, Mass.....	36,283	18	1						3	1
Topeka, Kans.....	48,726	8					3			
Waltham, Mass.....	30,570	5	2						1	
Watertown, N. Y.....	29,894				3					1
West Hoboken, N. J.....	43,139	2			2				4	
Wheeling, W. Va.....	43,377				1				1	2
Williamsport, Pa.....	33,809		7				1			
Wilmington, N. C.....	29,892	15	1				1		1	1
Winston-Salem, N. C.....	31,155						1		2	1
Zanesville, Ohio.....	30,863	8			2				1	
From 10,000 to 25,000 inhabitants:										
Alton, Ill.....	22,874	4								
Beaver Falls, Pa.....	13,532	2	1	1						
Berlin, N. H.....	13,599	4							1	1
Braddock, Pa.....	21,685		2							
Cairo, Ill.....	15,794	7								1
Clinton, Mass.....	13,075	2								
Coffeyville, Kans.....	17,548						1			
Concord, N. H.....	22,669	7			2		1			1
Galesburg, Ill.....	24,276	11					1			1
Harrison, N. J.....	16,950		1							
Kearny, N. J.....	23,539	6			2					
Kokomo, Ind.....	20,930	5								
Long Branch, N. J.....	15,395	2	1							
Marquette, Wis.....	14,610	1					1			
Melrose, Mass.....	17,445	6	4						1	
Morristown, N. J.....	13,284	5								
Nanticoke, Pa.....	23,126	2	1							
Newburyport, Mass.....	15,243	6								
New London, Conn.....	20,985	5								
North Adams, Mass.....	22,019	5							2	1
Northampton Mass.....	19,956	8			1				2	1
Plainfield, N. J.....	23,805	10	2		2				6	2
Pontiac, Mich.....	17,524		2							
Portsmouth, N. H.....	11,666		1				2			
Rocky Mount, N. C.....	12,067	7								
Rutland, Vt.....	14,831	6					4			
Saratoga Springs, N. Y.....	13,821	5								
Steelton, Pa.....	15,548	3	1				1		4	
Washington, Pa.....	21,618				1		1			
Wilkesburg, Pa.....	23,228	4								
Woburn, Mass.....	15,469	2								2

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

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

## FOREIGN.

### PLAGUE ON VESSEL.

#### Steamship "Matiana"—Gravesend.

The steamship *Matiana* arrived at Gravesend, England, August 13, 1917, with three cases of plague on board and a history of the occurrence of nine cases of plague, with six deaths, at sea during the period from July 14 to 18, 1917. The disease occurred among members of the crew.

#### CUBA.

#### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Aug. 1-10, 1917.		Remain- ing under treat- ment Aug. 10, 1917.
	New cases.	Deaths.	
Diphtheria.....	1	.....	4
Cerebrospinal meningitis.....	2	.....	2
Leprosy.....	.....	.....	10
Malaria.....	7	.....	22
Measles.....	3	.....	7
Paratyphoid fever.....	6	1	7
Typhoid fever.....	22	5	74

#### ECUADOR.

#### Plague—Yellow Fever—February, March, April, 1917.

Plague and yellow fever have been reported in Ecuador as follows:

*Plague.*—Month of February, 1917: Guayaquil, 56 cases; Estancia Vieja, 1 case; Nóbol, 2 cases; Salitre, 1 case; Taura, 3 cases. Month of March, 1917: Guayaquil, 33 cases; Milagro, 1 case. Month of April, 1917: Guayaquil, 9 cases; Milagro, 1 case.

*Yellow fever.*—Month of February, 1917: Guayaquil, 18 cases; Babahoyo, 1 case; Milagro, 1 case. Month of March, 1917: Guayaquil, 17 cases; Babahoyo, 2 cases; Chobo, 1 case; Milagro, 1 case. Month of April, 1917: Guayaquil, 17 cases; Milagro, 1 case.

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

**MADAGASCAR.****Epidemic Cerebrospinal Meningitis.**

Epidemic cerebrospinal meningitis was present in Tananarive, Madagascar, during the latter part of the year 1916. The outbreak was almost wholly confined to the native population, occurring principally among native soldiers. The disease also appeared in Tamatave, on the east coast, where it is believed the infection was carried by soldiers. The total number of cases reported at Tananarive from the beginning of the outbreak, about October 1, to December 31, 1916, was 212, with 138 deaths, and from January 1 to February 4, 1917, 199 cases, with 149 deaths, the greatest number of cases reported during this period for one week being 58 and the lowest number 20 cases. No report of nonfatal cases has been made since February 4, 1917. From February 25 to March 31, 16 fatal cases were reported, and from April 1 to June 3, 23 fatalities. The native population of Tananarive is 62,410. At Tamatave, where the native population is 6,701 and the European 3,200, there were reported during the month of January, 1917, 21 cases, with 14 deaths.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.****Reports Received During the Week Ended Sept. 7, 1917.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	June 24-30.....	.....	12	
Do.....	July 1-7.....	.....	3	
Madras.....	July 1-7.....	5	4	
Mandalay.....	June 24-30.....	.....	1	
Pegu.....	June 25-30.....	.....	4	
Do.....	July 1-7.....	.....	7	
Rangoon.....	June 24-30.....	1	1	
Java:				
West Java.....	.....	.....	.....	June 29-July 5, 1917: Cases, 52; deaths, 25. July 6-12, 1917: Cases, 2.
Batavia.....	June 29-July 5.....	1	.....	
Do.....	July 6-12.....	2	.....	

**PLAGUE.**

Brazil:				
Bahia.....	July 8-21.....	4	1	
Ecuador:				
Estancia Vieja.....	Feb. 1-28.....	1	.....	
Guayaquil.....	do.....	56	29	
Do.....	Mar. 1-31.....	33	18	
Do.....	Apr. 1-30.....	9	4	
Milagro.....	Mar. 1-31.....	1	.....	
Do.....	Apr. 1-30.....	1	1	
Nobol.....	Feb. 1-28.....	2	.....	
Salitre.....	do.....	1	.....	
Do.....	Mar. 1-31.....	.....	1	
Taura.....	Feb. 1-28.....	3	2	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

## **Reports Received During the Week Ended Sept. 7, 1917—Continued.**

### **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain: Gravesend.....	Aug. 13-24.....	3	1	From S. S. Matiana.
India:				June 24-30, 1917: Cases, 1,482; deaths, 1,002. July 1-7, 1917: Cases, 1,870; deaths, 1,322.
Bassein.....	June 24-30.....		12	
Do.....	July 1-7.....		6	
Bombay.....	do.....	36	25	
Henzada.....	June 25-30.....		2	
Karachi.....	June 28-July 4.....	3	2	
Madras Presidency.....	July 1-7.....	70	58	
Moulmein.....	June 17-30.....		15	
Do.....	July 1-7.....		16	
Rangoon.....	June 24-30.....	40	35	
Do.....	July 1-7.....	46	42	
Straits Settlements:				
Singapore.....	do.....	1	1	
At sea.....	July 14-18.....	9	6	S. S. Matiana en route for port of London.

### **SMALLPOX.**

Brazil:				
Bahia.....	July 22-23.....	1		
China:				Present. Do.
Amoy.....	June 17-30.....			
Chungking.....	July 8-14.....			
Dairen.....	July 8-28.....	6	1	
Mukden.....	July 22-23.....			Present.
Shanghai.....	July 2-29.....		8	Among Chinese.
Ecuador:				
Guayaquil.....	Feb. 1-23.....	1		
Do.....	Mar. 1-31.....	1		
Do.....	Apr. 1-30.....	5		
Egypt:				
Alexandria.....	July 23-29.....	29	2	
Cairo.....	Feb. 12-Mar. 4.....	13	1	
Do.....	Mar. 5-18.....	6		
India:				
Bombay.....	July 1-7.....	14	8	
Karachi.....	June 28-July 4.....	1	1	
Madras.....	July 1-7.....	11	4	
Rangoon.....	June 24-30.....	3	1	
Do.....	July 1-7.....	2		
Java:				
East Java.....	June 18-July 1.....	9		
Mid-Java.....	June 11-July 1.....	36	4	
West Java.....				June 29-July 5, 1917: Cases, 33; deaths, 11. July 6-12, 1917: Cases, 9; deaths, 1.
Batavia.....	June 29-July 5.....	1		
Mexico:				
Vera Cruz.....	Aug. 5-11.....	1		
Philippine Islands:				
Manila.....	July 8-21.....	3		
Portugal:				
Lisbon.....	do.....	3		
Russia:				
Archangel.....	May 15-June 14.....	33	2	
Spain:				
Malaga.....	Apr. 1-30.....		12	
Valencia.....	July 2-28.....	2		
Venezuela:				
Maracaibo.....	July 17-23.....		1	

### **TYPHUS FEVER.**

China:				
Hankow.....	July 8-14.....		1	
Egypt:				
Alexandria.....	July 16-29.....	75	34	
Cairo.....	Jan. 22-Mar. 18.....	96	40	

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—**  
Continued.**Reports Received During the Week Ended Sept. 7, 1917—Continued.****TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Hakodate.....	July 22-28.....	1	.....	
Nagasaki.....	July 23-Aug. 5....	7	.....	
Java:				
East Java.....	.....	.....	.....	June 25-July 1, 1917: 1 case.
Surabaya.....	June 25-July 1....	1	.....	
Mid-Java.....	June 11-24.....	7	1	
West Java.....	.....	.....	.....	June 30-July 5, 1917: Cases, 4;
Batavia.....	June 29-July 12..	11	.....	July 6-12, 1917: Cases, 8.
Russia:				
Archangel.....	May 15-June 14..	7	2	

**YELLOW FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Babahoyo.....	Feb. 1-28.....	1	1	
Do.....	Mar. 1-31.....	2	1	
Chobo.....	.....do.....	1	1	
Guayaquil.....	Feb. 1-28.....	18	7	
Do.....	Mar. 1-31.....	17	9	
Do.....	Apr. 1-30.....	17	9	
Milagro.....	Feb. 1-28.....	1	.....	
Do.....	Mar. 1-31.....	1	.....	
Do.....	Apr. 1-30.....	1	1	

**Reports Received from June 30 to Aug. 31, 1917.****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bassein.....	Apr. 1-May 5.....	.....	8	
Bombay.....	June 24-30.....	1	1	
Calcutta.....	Apr. 29-June 9....	.....	335	
Madras.....	Apr. 22-June 30..	5	4	
Mandalay.....	May 6-12.....	.....	1	
Moulmein.....	May 13-June 2....	.....	3	
Pakokku.....	Apr. 20-May 5....	.....	1	
Pegu.....	May 27-June 2....	.....	1	
Rangoon.....	Apr. 21-June 9....	30	16	
Indo-China:				
Provinces.....	.....	.....	.....	Feb. 1-Mar. 31, 1917: Cases, 61
Anam.....	Feb. 1-Mar. 31....	6	1	deaths, 40.
Cambodia.....	.....do.....	9	7	
Cochin-China.....	.....do.....	44	32	
Tonkin.....	.....do.....	2	.....	
Saigon.....	Apr. 23-May 27....	163	108	
Java:				
East Java.....	Apr. 2-8.....	1	.....	
West Java.....	.....	.....	.....	Apr. 13-June 28, 1917: Cases, 19;
Batavia.....	Apr. 13-June 28..	6	2	deaths, 6.
Persia:				
Mazanderan Province—				
Amir Kela.....	Feb. 3.....	1	.....	
Barfourouche.....	Jan. 15-17.....	4	.....	
Hamze Kela.....	Jan. 17.....	1	.....	
Machidessar.....	Jan. 31.....	3	.....	
Philippine Islands:				
Manila.....	June 17-23.....	1	.....	
Provinces.....	.....	.....	.....	May 20-June 30, 1917: Cases, 795;
Albay.....	May 20-June 30..	113	76	deaths, 506.
Do.....	July 1-7.....	2	1	July 1-7, 1917: Cases, 315; deaths,
Ambos Camarines.....	June 3-9.....	2	1	202.
Batangas.....	June 17-23.....	1	.....	

**ARE YOU SAYING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

**Reports Received from June 30 to Aug. 31, 1917—Continued.**

## **CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Philippine Islands—Continued.</b>				
<b>Provinces—Continued.</b>				
Bohol.....	May 20-June 30...	368	251	
Do.....	July 1-7.....	66	45	
Capiz.....	June 3-30.....	62	40	
Do.....	July 1-7.....	19	15	
Cebu.....	June 3-30.....	231	150	
Do.....	July 1-7.....	54	38	
Iloilo.....	.....do.....	7	4	
Leyte.....	June 10-30.....	14	5	
Do.....	July 1-7.....	4	4	
Negros Oriental.....	.....do.....	4	4	
Rizal.....	June 24-30.....	1	.....	
Do.....	July 1-7.....	1	.....	
Sorsogon.....	June 3-30.....	196	88	
Do.....	July 1-7.....	82	39	
Tayabas.....	.....do.....	7	7	
Do.....	.....do.....	1	1	

## **PLAGUE.**

Arabia:				
Aden.....	May 3-June 11.....	.....	38	Apr. 8-May 14, 1917: Cases, 69; deaths, 51.
Brazil:				
Bahia.....	June 10-30.....	6	3	
Ceylon:				
Colombo.....	Apr. 8-June 9.....	40	33	
China:				
Amoy.....	Apr. 29-May 5.....	.....	.....	Present and in vicinity.
Hongkong.....	May 13-June 30.....	20	13	
Do.....	July 1-7.....	6	6	
Kwangtung Province— Pa-pu district.....	June 2.....	.....	.....	Present.
Egypt:				Jan. 1-June 28, 1917: Cases, 564; deaths, 313.
Alexandria.....	June 21-27.....	6	4	
Port Said government.....	Apr. 30-May 19.....	4	3	
Port Said.....	June 25.....	1	.....	
Provinces—				
Fayum.....	May 11-June 26.....	14	7	
Galloubeh.....	June 28.....	1	.....	
Girgeh.....	May 17.....	.....	1	
Minieh.....	May 12-June 28.....	4	3	
Siout.....	May 12.....	3	1	
Suez government.....	Apr. 30-June 2.....	23	9	
Suez.....	May 12-June 28.....	38	23	
Great Britain:				
London.....	May 3-8.....	2	.....	2 in hospital at port. From s. s. Sardinia from Australian and oriental ports.
India:				Apr. 15-June 30, 1917: Cases, 42,440; deaths, 29,195.
Bassein.....	Apr. 1-June 2.....	.....	42	
Bombay.....	Apr. 22-June 30.....	441	363	
Calcutta.....	Apr. 29-June 2.....	.....	38	
Henzada.....	Apr. 1-May 19.....	.....	33	
Karachi.....	Apr. 22-June 30.....	468	413	
Madras Presidency.....	.....do.....	301	250	
Mandalay.....	Apr. 8-May 12.....	.....	9	
Moulmein.....	Apr. 1-June 2.....	.....	59	
Myingyan.....	Apr. 1-7.....	.....	1	
Pegu.....	May 27-June 2.....	.....	2	
Rangoon.....	Apr. 15-June 9.....	143	134	
Toungoo.....	Apr. 8-14.....	.....	2	
Indo-China:				
Provinces.....				Feb. 1-Mar. 31, 1917: Cases, 198; deaths, 141.
Anam.....	Feb. 1-Mar. 31.....	72	39	
Cambodia.....	do.....	92	80	
Cochin-China.....	do.....	33	21	
Saigon.....	Apr. 23-June 3.....	47	26	

**ARE YOU SAYING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

Reports Received from June 30 to Aug. 31, 1917—Continued.

**PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Java:</b>				
East Java.....				Apr. 2-May 20, 1917: Cases, 29; deaths, 29.
Dj-jakarta Residency.....	Apr. 23-May 6.....	1	1	
Kediri Residency.....	do.....	1	1	
Samarang Residency.....	Apr. 23-May 20.....	3	3	
Surabaya.....	Apr. 2-May 20.....	18	18	
Surakarta.....	do.....	6	6	
<b>Peru.....</b>				May 16-31, 1917: Cases, 15.
Departments—				
Arequipa.....	May 16-31.....	4		At Mollendo.
Callao.....	do.....	1		At Callao.
Lambayeque.....	do.....	2		At Chiclayo.
Libertad.....	do.....	7		At Salaverry, San Pedro, and Trujillo.
Lima.....	do.....	1		At Lima.
<b>Siam:</b>				
Bangkok.....	Apr. 22-June 2.....	12	11	
Do.....	July 3-23.....	4	3	
<b>Straits Settlements:</b>				
Singapore.....	June 3-16.....	2	1	
<b>Union of South Africa:</b>				
Cape of Good Hope State—				
Glengrey district.....	Aug. 13.....			Present.
Terka district.....	May 28.....	1	1	At Summerhill Farm.
Queenstown.....	June 6.....	1		
<b>Orange Free State.....</b>				Apr. 16-22, 1917: 1 case; Apr. 9-22, 1917: Cases, 26; deaths, 17.
Winburg district.....	May 28.....		1	

**SMALLPOX.**

<b>Australia:</b>				
New South Wales.....				Apr. 27-July 5, 1917: Cases, 68.
Brewarrina.....	Apr. 27-June 21.....	6		
Coonabarabran.....	May 25-July 5.....	13		
Quambone.....	Apr. 27-June 21.....	2		
Warrendistrict.....	June 22-July 5.....	47		
<b>Queensland—</b>				
Thursday Island Quarantine Station.....	May 9.....	1		From s. s. St. Albans from Kobe via Hongkong. Vessel proceeded to Townsville, Brisbane, and Sydney, in quarantine.
<b>Brazil:</b>				
Bahia.....	May 6-June 30.....	4		
Rio de Janeiro.....	do.....	126	31	
Do.....	July 1-14.....	59	9	
<b>Canada:</b>				
Manitoba—				
Winnipeg.....	June 10-16.....	1		
Nova Scotia—				
Halifax.....	June 18-July 7.....	3		
Port Hawkesbury.....	June 17-30.....			Present in district.
Ontario—				
Ottawa.....	July 30-Aug. 5.....	1		
<b>Ceylon:</b>				
Colombo.....	May 6-12.....	1		
<b>China:</b>				
Amoy.....	Apr. 29-May 26.....			Present and in vicinity.
Antung.....	May 21-June 24.....	4		
Chungking.....	May 6-June 23.....			Present.
Do.....	July 1-7.....			Do.
Changsha.....	May 27-June 2.....	5		
Dairen.....	May 13-June 30.....	30	4	
Do.....	July 1-7.....			Do.
Hankow.....	June 24-30.....	2		
Harbin.....	Apr. 23-May 6.....	7		On Chinese Eastern Ry.
Hongkong.....	May 6-June 16.....	8	7	
Manchuria Station.....	Apr. 23-23.....	1		Do.
Mukden.....	May 27-June 2.....			Present.
Do.....	July 8-21.....			Do.
Shanghai.....	May 21-July 1.....	13	32	Cases foreign; deaths among natives.

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

**Reports Received from June 30 to Aug. 31, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Tsitshar Station.....	Apr. 16-22.....	1	.....	On Chinese Eastern Ry.
Tsingtao.....	May 22-July 7.....	35	7	At another station on railway, 1 case.
Chosen (Korea):				
Chempulpo.....	May 1-31.....	1	.....	
Egypt:				
Alexandria.....	Apr. 30-July 1.....	39	9	
Do.....	July 2-8.....	1	2	
France:				
Paris.....	May 6-12.....	1	.....	
Germany.....				Mar. 18-Apr. 28, 1917: Cases, 715 in cities and 32 States and dis- tricts.
Berlin.....	Mar. 18-Apr. 28.....	106	.....	
Bremen.....	do.....	16	.....	
Charlottenburg.....	do.....	18	.....	
Hamburg.....	do.....	50	.....	
Leipzig.....	do.....	20	.....	
Lübeck.....	do.....	2	.....	
Munich.....	do.....	10	.....	
Stuttgart.....	do.....	1	.....	
India:				
Bombay.....	Apr. 22-June 30.....	163	63	
Calcutta.....	Apr. 29-May 26.....	.....	12	
Karachi.....	Apr. 22-June 30.....	26	7	
Madras.....	do.....	80	48	
Rangoon.....	Apr. 15-June 9.....	30	4	
Indo-China:				
Provinces.....				Feb. 1-Mar. 31, 1917: Cases, 1,616; deaths, 240.
Anam.....	Feb. 1-Mar. 31.....	788	63	
Cambodia.....	do.....	73	17	
Cochin-China.....	do.....	654	158	
Kwang-Chow-Wan.....	Mar. 1-31.....	2	.....	
Tonkin.....	Feb. 1-Mar. 31.....	99	2	
Saigon.....	Apr. 27-June 10.....	199	63	
Italy:				
Turin.....	May 21-June 24.....	32	12	
Japan:				
Kobe.....	May 27-July 22.....	65	16	
Nagasaki.....	May 28-June 3.....	1	.....	
Osaka.....	May 16-July 5.....	177	55	
Yokohama.....	May 27-July 1.....	1	1	
Java:				
East Java.....	Apr. 2-June 17.....	29	2	
Mid-Java.....	Apr. 1-June 10.....	52	3	
West Java.....				Apr. 13-June 28, 1917: Cases, 206; deaths, 33.
Batavia.....	Apr. 13-June 28.....	29	6	
Mexico:				
Mazatlan.....	July 11-Aug. 7.....	.....	9	
Mexico City.....	June 3-30.....	162	.....	
Do.....	Aug. 5-11.....	69	.....	
Monterey.....	June 18-24.....	.....	24	
Vera Cruz.....	July 1-7.....	1	.....	
Philippine Islands:				
Manila.....	May 13-June 9.....	6	.....	Varioloid.
Portugal:				
Lisbon.....	May 13-June 30.....	14	.....	
Portuguese East Africa:				
Lourenço Marques.....	Mar. 1-Apr. 30.....	.....	2	
Russia:				
Archangel.....	May 1-June 28.....	23	2	
Petrograd.....	Feb. 18-June 9.....	495	.....	
Riga.....	Mar. 11-June 2.....	4	.....	Jan. 1-Mar. 31, 1917: Cases, 9.
Vladivostok.....	Mar. 15-21.....	23	7	
Siam:				
Bangkok.....	June 9-23.....	6	3	
Spain:				
Madrid.....	May 1-June 19.....	.....	4	
Seville.....	May 1-June 30.....	.....	11	
Valencia.....	June 3-23.....	5	.....	
Do.....	July 1-7.....	2	.....	
Straits Settlements:				
Penang.....	Mar. 18-June 23.....	6	3	
Singapore.....	June 24-30.....	1	.....	

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

Reports Received from June 30 to Aug. 31, 1917—Continued.

**SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Sweden:				
Malmo.....	Apr. 22-28.....	1	.....	
Stockholm.....	May 20-June 23...	2	1	
Tunisia:				
Tunis.....	June 2-8.....	2	.....	
Turkey in Asia:				
Trebizond.....	Feb. 25-Apr. 13.....	.....	15	
Union of South Africa:				
Johannesburg.....	Mar. 12-24.....	4	.....	
Uruguay:				
Montevideo.....	May 1-31.....	2	.....	
Venezuela:				
Maracaibo.....	June 18-July 8.....	.....	8	

**TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	June 1-30.....	5	3	
Austria-Hungary:				
Austria.....				Oct. 22-Dec. 17, 1916: Cases, 2,371.
Bohemia.....	Oct. 22-Dec. 17.....	634	.....	
Galicia.....	do.....	809	.....	
Lower Austria.....	do.....	47	.....	
Moravia.....	do.....	617	.....	
Silesia.....	do.....	16	.....	
Styria.....	do.....	243	.....	
Upper Austria.....	do.....	5	.....	
Hungary.....				Feb. 19-Mar. 25, 1917: Cases, 1,381.
Budapest.....	Feb. 19-Mar. 25.....	83	.....	
China:				
Antung.....	June 25-July 1.....	3	.....	
Do.....	July 9-22.....	4	1	
Hankow.....	June 9-16.....	1	.....	
Tientsin.....	June 17-23.....	1	.....	
Tsingtao.....	May 30-July 7.....	4	.....	
Egypt:				
Alexandria.....	Apr. 30-July 1.....	1,648	478	
Do.....	July 17-23.....	145	50	
Great Britain:				
Cork.....	June 17-23.....	.....	1	
Greece:				
Saloniki.....	May 13-June 30.....	.....	32	
Do.....	July 1-14.....	.....	10	
Japan:				
Nagasaki.....	June 11-24.....	4	.....	
Do.....	July 9-22.....	12	1	
Java:				
East Java.....	May 6-June 17.....	5	.....	May 5-10, 1917: Cases, 24; deaths, 2.
Mid-Java.....	Apr. 1-30.....	7	2	
Samarang.....	May 5-June 10.....	14	2	
West Java.....				Apr. 13-June 21, 1917: Cases 133; deaths, 6.
Batavia.....	Apr. 13-May 10.....	66	6	
Mexico:				
Mexico City.....	June 3-30.....	431	.....	
Do.....	July 8-Aug. 11.....	524	.....	
Netherlands:				
Rotterdam.....	June 9-23.....	3	2	
Do.....	July 15-30.....	3	.....	
Norway:				
Bergen.....	July 8-14.....	6	.....	
Portuguese East Africa:				
Lourenço Marques.....	Mar. 1-31.....	1	.....	
Russia:				
Archangel.....	May 1-June 28.....	4	.....	
Petrograd.....	Feb. 18-June 9.....	126	3	
Riga.....	May 31-June 2.....	2	.....	Jan. 1-31, 1917: 1 case.
Vladivostok.....	Mar. 29-May 21.....	5	.....	

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**

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

**Reports Received from June 30 to Aug. 31, 1917—Continued.**

**TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Spain:				
Almeria.....	May 1-31.....		5	
Madrid.....	do.....		2	
Switzerland:				
Basel.....	June 17-23.....	1		
Do.....	July 8-21.....	3	1	
Trinidad.....	June 4-9.....	2		
Tunisia:				
Tunis.....	June 30-July 6....		1	

**YELLOW FEVER.**

Mexico:				
Yucatan, State—				
Peto.....	June 23.....	1	1	In person recently arrived from Mexico City.
Do.....	July 29-Aug. 11...	6	2	

**ARE YOU SAVING Your Money to Invest in the SECOND LIBERTY LOAN?**