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THE PROBLEM OF ACUTE INFECTIOUS JAUNDICE IN THE UNITED STATES.

By M. H. NEILL, Passed Assistant Surgeon, United States Public Health Service.

Acute infectious jaundice is an acute infectious disease characterized by malaise, prostration, and gastrointestinal symptoms at onset, by fever of varying degree and by jaundice of varying intensity and duration. In severe cases bleeding from mucous surfaces and albuminuria are common. In moderately severe cases the rather high fever, marked prostration, and absence of local signs tend to exclude local disease of the biliary tract and present the clinical picture of an acute infection. Light cases of this affection, however, seem to be clinically indistinguishable from ordinary catarrhal jaundice and therefore are seldom diagnosed correctly in the absence of an outbreak of the disease, which naturally directs attention to the probably infectious character of the malady.

In presenting this brief paper the writer desires to:

- 1. Emphasize the aspects of the disease which are of special interest to sanitarians in the United States.
 - 2. Briefly outline the epidemiological problems of the disease.
 - 3. Indicate the procedures for their study by laboratory methods.

Prevalence of the Disease Among Troops in Europe.

It is well known that outbreaks of jaundice have occurred at different times among the French, British, Italian, German, and Russian troops. The geographical range of prevalence has been from Belgium to Gallipoli. In most of the outbreaks the mortality has been low, but in some of the commands the attack rate has been high. At this time the weight of evidence indicates that the disease in the great majority of instances, if not in all, has been due to the "Spirochæta icterohæmorrhagiæ" of Inada (1916) and his coworkers. This organism was first demonstrated as the cause of a severe form of the disease prevalent in Japan.

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Prevalence of the Spirochæta Icterohæmorrhagiæ Among Wild Rats in the United States.

Noguchi (1917) found that rats captured about New York City were infested with a spirochæta identical in appearance with that causing acute spirochætal jaundice in man. This worker, by means of cross immunity tests, presented further evidence that the parasites causing the human disease in Europe and Japan and those found in New York rats were the same. Jobling (1917) found that of more than a hundred rats captured in Nashville, Tenn., at least ten per cent carried similar spirochætes in their kidneys. The writer has found a similar prevalence of the Spirochæta icterohæmorrhagiæ in wild rats captured in Washington, D. C. As far as can be made out the organisms found by different workers in the United States correspond very closely in appearance and pathogenicity for guinea pigs with those infecting human beings in the trenches in Europe and in the mines of Japan. The evidence then seems to indicate pretty conclusively that the Spirocheta icterohemorrhagie, the cause of acute spirochætal jaundice in man, is rather widely disseminated among wild rats living under such different conditions of environment as obtain in New York, Washington, and Nashville. Reports of the degree of prevalence of these parasites in the rats throughout the country are awaited with considerable interest.

Reported Occurrence of Epidemic Jaundice in the United States.

A search of the literature reveals a number of outbreaks of jaundice occurring from time to time in this country. Even though few and far between, on account of the prevalence of the causative agent in wild rats and the fact that outbreaks of jaundice tend to occur among troops, these reports deserve at least a passing consideration.

An account of an outbreak of jaundice among troops in the War of 1812 has come down to us. Acute infectious jaundice has been stated to have been highly prevalent during the Civil War and various numerical estimates of its prevalence appear in the literature. The following quotation is taken from the Medical and Surgical History of the War of the Rebellion prepared under direction of the Surgeon General, United States Army: "Jaundice occurred frequently in the progress of the malarial or other fevers as the result of morbid changes affecting the liver or blood. The yellow coloration in these cases was mostly an incident or symptom of the well-defined primary disease. There were, however, a large number of hepatic or hæmatic disorders in which the alteration of color represented so prominent a symptom that the disease was recorded under the heading of jaundice. Not less than 71,691 cases of this kind were reported among white troops (Union Army). Generally the cases were sporadic, but sometimes a series occurred in a command constituting a local epidemic."

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While in the report just quoted the association of jaundice with disease of the liver and malaria is recognized, the records contain several accounts of clear-cut outbreaks of jaundice and fever corresponding pretty closely to the descriptions of the trench jaundice observed in the present war. It seems, then, that while outbreaks of acute infectious jaundice, very likely due to spirochætes, occurred during the Civil War, a numerical estimate of the prevalence of the disease should not be attempted.

A search of the literature reveals a number of reports of outbreaks of jaundice among the civil population in the United States. In the majority of these reports no special prevalence of other febrile diseases is mentioned in connection with the cases reported. In many of the cases the observers were impressed with the fact that they were dealing with a condition they had never seen before, basing their diagnosis on the description of the disease as it occurs in Europe.

In all the American reports most of the patients experienced nausea or vomiting, some abdominal distress or pain, headache, and fever of varying degree, followed in a few days by jaundice of varying intensity. In fact from many of the descriptions there is little to suggest a specific infectious disease, aside from the fact that a number of cases as described above would appear at about the same time in a community which was both previously and subsequently free from the disease. Several reports indicate a high mortality among pregnant women. In some outbreaks children seem to have been chiefly attacked, in others adults, and in still others adults and children were equally affected. In some outbreaks males were principally affected, while in others both sexes were affected about equally. In several outbreaks the symptomatology in the fatal cases was strikingly similar, suggestive of rapid necrosis of the liver cells as occurs in acute yellow atrophy of the liver. There is no information as to the occupation of those ill with the disease, nor is it possible to gain any comprehensive idea of the sanitary situation as regards water and food supply, sewage disposal, and the like, under which the disease has occurred in the United States. adequate study of the pathology of the disease in man in this country has come to the writer's attention. Barker and Sladen found that the blood serum of their cases agglutinated a strain of B. paratyphosus.

There is some evidence to suggest that direct contact may have occasionally played a part in transmitting the disease, as in Hanover, N. H. (Gile, 1908), where a number of college students were engaged in surveying roads in the vicinity, camping out at night. From time to time one would become ill with jaundice and fever and return to college. Then cases began to appear in the college itself where the disease had formerly been unknown. Again at Ann Arbor, Mich.

(Cummings, 1915), 12 of the 19 cases had been in contact with a sick college mate previous to contracting the disease. In this outbreak the food supply was apparently not a factor, as nearly all those attacked ate at separate boarding houses.

Outbreaks of Infectious Jaundice in the United States (Civil Population).

Place.	Approxi- mate popula- tion.	Year.	Months.	Cases.	Deaths.	Reported by—
Rocky Mount,		1849-50	Nov., Dec.,	About 40	Not stated.	Pittman, N. Orleans Med.
N.C. Halifax Court	7	1857-58	Jan. Fall and	Not stated.	Apparently	J. v. 6. p. 694.
House, Va.	1	f .	winter.		none.	Med. J., v. 15, p. 355.
Savannah, Ga	30,000	1880	Jan., Feb	80	None	Nunn, Atlanta Med. & Surg. J., v. 28, p. 6.
Birmingham, Ala.	3,000	1881-82	SeptJan	1	"Few"	Sears, Trans. Med. Assoc. State of Alabama.
Plainfield, Mich	100	1886-87	Dec., Jan	22	None	Green, Phys. & Surg.,
Geneva, N. Y		1888	Spring	i	tioned.	Sweet, Med. Regist.,
Troy, Me	?	1887	do	Not stated.	do	Health, Maine, v. 4,
Sparta, Wis	3,000	1898	Aug., Sept.,	"Few"	"Few"	p. 266. Beebe, Trans. Med. Soc.,
Calumet, Mich., and vicinity.	30,000	1897-98	June-Jan	675	None	State Med. Soc., v. 22,
Hanover, N. H	4,000	1899	Not stated	'About 25	do	shire Med. Soc., 1908,
Stirling, Kans	2, 200	1905	Sept., Oct.,	30	2	p. 181. Ross, J. Kansas Med.
Montevallo, Ala		1906	Nov., Dec	Not stated.	None	Soc., 1906, p. 407. Wilkinson, Ala. Med. J., v. 19, No. 6.
Talladega, Ala	5,500	1907	Summer and	About 200	2	Dixon, Ala. Med. J., v. 20, p. 320.
Baltimore, Md	558, 500	1908	Nov., Dec	6 cases, of 700 in- mates of iail.		Barker & Sladen, Bull. Johns Hopkins Hosp., v. 20, p. 310.
Andover, Me	750	1908-09	OctFeb	135	do	Leslie, Bost. Med. & Surg. J., v. 161, p. 622.
Austin, Minn	6,960	1910	SeptDec	About 200	do	Collins, J. Minnesota State Med. Asso.,
New York City	1,800,000	1912–13	OctJan	25 studied at author's clinic.	1	v. 31, p. 305. Herrman, Trans. Amer. Ped. Soc., v. 25, p. 85.
Hetland, S. Dak	223	1913	JuneSept	Not stated.	Not stated.	Grove, St. Paul Med. J., v. 16, p. 109.
Ann Arbor, Mich.	15,000	1915	Spring	25	None	Cummings, J. Mich. State Med. Soc., v. 14, p. 293.

From the table it is evident that, while in certain of the outbreaks a fairly large proportion of the community has been attacked, the case-fatality rate has always been low. As regards seasonal prevalence, it would seem that the fewest cases occurred in the warmer months of the year. Detailed analysis of the reports shows very few cases occurring in the summer as compared with the fall and winter. This is in accordance with a part of the observation of Japanese and European workers, that the disease does not occur in the hottest or coldest weather.

Before closing the discussion as to the prevalence of epidemics of jaundice in the United States it seems fair, in the absence of more definite knowledge, to ask whether such a disease as a separate entity

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has existed or whether all the outbreaks were not manifestations of some other disease such as typhoid fever or malaria. With regard to malaria it may be said that, while estivo-autumnal malaria undoubtedly caused outbreaks of jaundice in the Civil War, it is contrary to our present knowledge of the distribution of this disease to ascribe such outbreaks as occurred in Maine, New Hampshire, Minnesota, and Wisconsin to this cause. To infer that these cases were due to some vagary of B. typhosus would contradict a great mass of clinical experience, which shows that jaundice is a very rare symptom of typhoid fever. The same may be said with regard to paratyphoid infection. In general the seasonal prevalence of acute infectious jaundice seems to be at its lowest just when so-called filth-borne diseases are most prevalent.

Whatever may be the weight attached to such facts as have been stated above they indicate that epidemics of jaundice closely simulating those now known to be caused by the Spirochæta icterohæmorrhagiæ have occasionally appeared in this country, and that they were possibly due to this parasite. This latter statement is strengethened by the finding by A. M. Stimson (personal communication) of spirochætes in sections of the kidney of a man who died in New Orleans of a disease characterized by jaundice and fever. These sections prepared by Levaditi's method show spirochætes morphologically similar to the causative agent of acute spirochætal jaundice.

The Problem of the Rat as a Carrier of the Spirochæta Icterohæmorrhagiæ.

The following quotation from Noguchi is well adapted as a starting point in this discussion: "The finding of the causative organism of infectious jaundice among wild rats in America and the identification of this strain with those found in Asia and Europe seem to be particularly important in revealing a latent danger to which we have been constantly exposed but from which we escape as long as sanitary conditions are not disturbed by untoward events."

Long before the present war acute infectious jaundice was recognized to occur especially among troops, among sewer workers, agricultural laborers working in wet soil, and in mine workers. People who handle food as butlers and cooks, in Japan at least, are also said to be attacked with especial frequency. With the universal adoption of trench warfare in the present conflict acute infectious jaundice took a more or less prominent place in the category of trench diseases. Stokes (1917) observed a definite increase in the number of cases among troops during wet spells of weather, followed by a diminution in cases when the weather became dry. It was also noted that a regiment which had a number of cases in the line—i. e., wet trenches—was not infected while in rest billets, but again produced cases when it returned to the trenches. In Japan, Inada

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(1916) and his coworkers found that cases of acute infectious jaundice occurred in the wet shafts of the mine, but not in the dry shafts nor on the surface. Some evidence has been presented to show that the hot and cold months of the year are unfavorable to the spread of the disease. Several laboratory workers have been directly infected by the blood of guinea pigs suffering from the disease, at least once with fatal outcome.

The credit of first finding the Spirochæta icterohæmorrhagiæ in rodents belongs to the Japanese investigators, who first demonstrated these parasites in the kidneys of field mice. Further investigations in the coal-mining regions of Japan showed that 40 per cent of the wild rats harbored organisms resembling these parasites. Many cases of infectious jaundice in human beings, due to spirochætes, occur in this region. With regard to the spirochætes found in the rats, it was observed that they live in the kidney without injury to the animal, and are excreted in the urine. By means of tests with immune sera, evidence was obtained which indicated that the spirochætes which came from the rats were quite similar to, if not identical with, those derived from human sources. various strains of these spirochætes all produced the same striking pathological picture in experimentally infected guinea pigs. Guinea pigs were infected by allowing rats to bite them, and it was demonstrated also that the organisms would pass through the unbroken skin of these animals.

English and French workers soon demonstrated the presence of the Spirochæta icterohæmorrhagiæ in rats taken from the trenches in which the disease had appeared among troops. Thus Stokes (1917) found 6 out of 15 rats to be infected. On the other hand, Courmont and Durand (1917) examined 50 rats taken in a region where acute infectious jaundice was unknown. The rats appeared perfectly healthy, but four of them were proved by guinea-pig inoculation to harbor the Spirochæta icterohæmorrhagiæ. These figures approximate the rate of incidence later obtained for wild rats in the United States. Rat infestation has been demonstrated in other portions of France.

With regard to the relation between rat infestation and human infection with Spirochæta icterohæmorrhagiæ, two possibilities present themselves. First, it is possible that no transfer from rats to man takes place, or only exceptionally as in case of a bite. It may be that some cause is at work in the trenches and mines which tends to infect man and rats with the Spirochæta icterohæmorrhagiæ entirely independently of each other. On the other hand, it seems more probable that the spirochætes may be interchanged indiscriminately among men and rats living in such environments as obtain in the trenches, by means of their urine. There is evidence to show that infection can take place either through the skin or by the mouth.

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There is no adequate evidence that any insect plays a part in the transmission of the disease in nature, although the experimental evidence in this regard is by no means complete. The epidemiology of the disease seems to point rather definitely to a moist soil, at an equable temperature, as a means of keeping alive the virus.

While the problem of the rat in relation to acute infectious jaundice has not been completely worked out, the following statement of the mode of transfer forms a reasonable hypothesis. About 10 per cent of all wild rats wherever located probably carry the Spirochæta ictero-hæmorrhagiæ in their kidneys and excrete them in their urine. If this organism finds a favorable environment in the soil, a sufficient number may live long enough to infect a human being who gets them in the mouth or on the skin. Under these conditions a larger number of rats also take up the spirochætes.

Much more work needs to be done to place the whole matter on a sound scientific basis and to do this it is essential to (1) recognize cases of the disease in man, (2) determine the general prevalence of the Spirochæta icterohæmorrhagiæ in wild rats, living in various environments.

Detection of the Spirochæta Icterohæmorrhagiæ by Laboratory Methods.

A. In Man.

The following methods have been successfully employed in detecting infection with the Spirochæta icterohæmorrhaqiæ in human beings:

- 1. Examination of blood films. These have been stained for spirochætes by one of the Romanowski stains or one of the silver impregnation methods.
 - 2. Examination of the blood by dark field illumination.
 - 3. Injection of the blood into the peritoneal cavity of a guinea pig.

In these three methods, the earlier in the course of the disease the blood is obtained the better the chances of success. In the first two methods search must be made with the microscope for the spirochætes and as they are not very numerous in the blood of human cases, and somewhat difficult to stain these methods are not highly satisfactory. On the other hand, in early cases guinea-pig inoculation with blood is a valuable procedure and should always be done, unless the patient is first seen late in the disease. If the Spirochæta icterohæmorrhagiæ are present in the inoculated blood the guinea pig will usually sicken and die in about ten days. Post-mortem examination will show a well marked combination of jaundice and hemorrhage such as, so far as known, is not produced by any other infection.

In a light-skinned guinea pig a distinct yellowish tinge, especially noticeable in the ears and about the genitals, is usually observed. On dividing the skin of the abdomen in a case of this disease, the operator is at once struck with the widespread hemorrhages which lie beneath the skin and between the connective tissue planes.

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They range from minute petechiæ up to massive effusions of blood perhaps a centimeter in diameter. The hemorrhages are especially well marked about the axillary and inguinal lymph-nodes and as the skin is reflected hemorrhagic areas will be seen between the fascia covering the skeletal muscles. The skin is usually quite vellow and the abdominal muscles frequently show a vellowish tinge. On opening the body cavity the liver appears distinctly enlarged and of a brownish vellow color. The spleen is not enlarged. The intestines are stained vellow and hemorrhages into the intestinal walls are of frequent occurrence. Post-peritoneal hemorrhages are frequent and abundant, especially about the kidney and adrenal. This organ is frequently the seat of marked effusions of blood. the thorax the lungs especially attract attention, being the seat of the most characteristic gross change observed in the guinea pig. These consist of numerous sharply defined hemorrhagic foci. description, by the Japanese, of the lungs as resembling the mottled wings of a butterfly is a very apt one. Histologically the liver and kidnevs show the most characteristic changes. The liver shows an exudation of polymorphonuclear leucocytes about the bile ducts. and widespread degenerative changes of the parenchyma. Many of the cells contain an abnormal amount of pigment, while others show pronounced vacuolization and dispersion. The kidneys show an acute exudative nephritis with hemorrhages throughout the cortex.

The tissues of the guinea pig contain many spirochetes, which may be best demonstrated by staining portions of the liver by the older method of Levaditi, making sections and examining by the microscope. Dark field examination of the liver pulp will also usually reveal them.

4. Microscopic examination of the urine for spirochætes.

The urine is centrifugalized and the sediment examined by the dark field method, or films are made and stained by India ink, Romanowsky stain or a silver impregnation method. It will be recalled that the urine contains spirochetes in a variety of conditions, and one must be entirely familiar with the morphology of the Spirocheta icterohemorrhagie to hazard a diagnosis by a microscopic examination of the urine.

The microscopic examination of the urine has a special field in expert hands to determine whether a convalescent is excreting the spirochetes in his urine and is therefore a carrier.

5. Injection of urinary sediment into the peritoneal cavity of a guinea pig.

This method has frequently been followed by positive results and should be regularly practiced. As in the injection of blood it has the decided advantage that positive results are well marked, causing the definite pathological changes in the guinea pig, above referred to.

6. Examination of tissues obtained at necropsy by the older method of Levaditi.

By this method the spirochetes may frequently be demonstrated in the viscera, especially in the kidneys.

In general, it may be stated that for the diagnosis of the disease in the living patient by laboratory procedures, guinea pig inoculation appears to be most reliable, and the method of choice; next in practical importance is the microscopical examination of blood and urine for spirochetes; and finally, attempts to cultivate the organism directly from the human subject, which appears to be a matter of considerable difficulty.

B. In Rodents.

Here, as in the detection of the disease in man, guinea-pig inoculation is the method of choice and reliability. The rats should preferably be taken alive, killed, and the kidneys removed at once, with precautions not to contaminate them. The kidneys should then be emulsified and the emulsion injected into the peritoneal cavity of a guinea pig, if possible using a guinea pig for each rat. The guinea pigs should then be observed for at least two weeks. If the Spirochæta icterohæmorrhagiæ are present the pig will become ill, show some rather variable pyrexia, become slightly jaundiced, collapse, and die in about 10 days, and at post-mortem examination will show the marked picture of jaundice and hemorrhage referred to above. Spirochætes may be demonstrated in the tissues, as previously indicated.

Bibliography.

The following available articles dealing with the Spirochæta icterohæmorrhagiæ will be found to contain the essentials of our present knowledge of this organism and the effects it produces in man and animals.

Chambers, Graham.

1917: An outbreak of infectious jaundice occurring among the soldiers of the British forces.

J. Roy. Army Med. Corps, v. 29, p. 108.

Costa, S., and Troisier, J.

1916: Sur la Spirochétose ictéro-hémorragique.

Compt. rend. Soc. d. Biol., Paris, v. 79, p. 1038.

Courmont, Jules, and Durand, Paul.

1917: Le rat d'égout "Reservoir de virus pour la Spirochétose ictéro-hémorrhagique."

Bull. et mém. Soc. méd. hôp., Paris, 1917, 3d ser., 33d year, p. 115.

Dawson, Bertrand, and Hume, W. E.

1917: Jaundice of infective origin.

Quart. J. Med., v. 10, p. 90.

Dawson, Bertrand, Hume, W. E., and Bedson, S. P.

1917: Infective jaundice.

Brit. M. J., 1917, Sept. 15, p. 345.

Garnier, Marcel, and Reilly, J.

1917: L'ictère infectieux à spirochètes.

Bull. et mém. Soc. méd. hôp. Paris, Dec. 22, 1916.

Ido, Yutaka, Hoki, Rokuro, Ito, Hiroshi, and Wani, H.

1916: The prophylaxis of Weil's disease (spirochætosis icterohæmorrhagica).

J. Exper. Med., v. 24, p. 471.

1917: The rat as a carrier of Spirochata teterohamorrhagia, the causative agent of Weil's disease (spirochatosis icterohamorrhagia).

J. Exper. Med., v. 26, p. 341.

Inada, Ryokichi.

1917: The clinical aspects of spirochætosis icterohæmorrhagica or Weil's disease.

J. Exper. Med., v. 26, p. 355.

Inada, Ryokichi, Ido, Yutaka, Hoki, Rokuro, Ito, Hiroshi, and Wani, Hidetsune.

1918: Intravenous serotherapy of Weil's disease (spirochætosis icterohæmorrhagica).
J. Exper. Med., v. 27, p. 283.

Inada, Ryokichi, Ido, Yutaka, Hoki, Rokuro, Kaneko, Renjiro, and Ito Hiroshi.

1916: The etiology, mode of infection, and specific therapy of Weil's disease (spirochætosis icterohæmorrhagica).

J. Exper. Med., v. 23, p. 377.

Ito, Tetsuta, and Matsuyaki, Haruichiro.

1916: The pure cultivation of Spirochata icterohamorrhagia (Inada).

J. Exper. Med., v. 23, p. 557.

Jobling, James W., and Eggstein, A. A.

1917: The wild rats of the Southern States as carriers of Spirochata teterohæmorrhagiæ.

J. Am. Med. Assoc., v. 69, p. 1787.

Kaneko, Renjiro, and Okuda, Kikuyo.

1917: The distribution in the human body of Spirochæta icterohæmorrhagiæ.

J. Exper. Med., v. 26, p. 325.

1918: Distribution of Spirochæta icterohæmorrhagiæ in the organs after serum treatment.

J. Exper. Med., v. 27, p. 305.

Martin, August, and Pettit, Louis.

1917: La Spirochétose ictero-hémorragique en France.

Presse med., 1916, no. 69.

1917: Présence de Spirochata icterohamorrhagia chez le surmulot de la zone des armées.

Compt. rend. Soc. de Biol., Paris, v. 80, p. 10.

1917: Présence de Spirochæta icterohæmorrhagiæ chez les surmulot de l'intériéur.
Compt. rend. Soc. de Biol., Paris, v. 80, p. 574.

Martin, August, Pettit, Louis, and Voudremer, Albert.

1917: Culture du Spirochæta icterohæmorrhagiæ.

Compt. rend. Soc. de Biol., Paris, v. 80, p. 197.

Noguchi, Hideyo.

1917: Spirochæta icterohæmorrhagiæ in American wild rats and its relation to Japanese and European strains.

J. Exper. Med., v. 25, p. 755.

Stokes, A., Ryle, J. A., and Tytler, W. H.

1917: Weil's disease (Spirochætosis icterohæmorrhagica) in the British Army in Flanders.

Lancet, v. 192, p. 142.

Wilmaers, L., and Renaux, E.

1917: Quarante-sept cas de spirochétose, ictéro-hémorrhagique, étude clinique et notes laboratoire.

Arch. méd. Belges, v. 70, p. 115, 207.

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.

EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED MAY 7.

CAMP BEAUREGARD ZONE, LA.		CAMP DODGE ZONE, IOWA.	
Chicken pox: Ca	ses.	Chancroid: Ca	ses.
Alexandria.	1	Des Moines.	1
Gonorrhea:	•	Diphtheria:	
Alexandria	1	Des Moines.	4
Malaria:	•	Gonorrhea:	
Alexandria	2	Des Moines.	5
Measles:	2	Scarlet fever:	•
Measies: Alexandria	2	Ankeny	1
	1	Des Moines.	17
Pineville	1	Grimes	i
Mumps:	•	Smallpox:	-
Alexandria	28	Tes Moines.	14
Pineville	3	Syphilis:	14
Pneumonia:	_	Pes Moines.	6
Alexandria	5	2700 MADINUS.	٠
Pineville	1	CAMP EBERTS ZONE, ARK.	
Poliomyelitis:	_	Arthritis, acute:	
Ward No. 2	6	England	1
Smallpox:		Gonorrhea:	
Alexandria	1	Cabot	1
Tuberculosis:		Carlisle.	1
Alexandria	1	England	1
Pineville	1	Lenoke	3
Whooping cough:		Malaria:	•
Alexandria	4	Carlisle	4
CAMP BOWIE ZONE, TEX.		England	9
Fort Worth:		Lonoke	1
Chicken pox.	6	Measles:	-
Diphthefia	1	Carlisle	2
Gonorrhea.	2	England	8
Malaria.	1	Lonoke.	1
Measles.	1	Lonoke, route 4.	2
Mumps	31	Mumpa	_
Pneumonia.	2	Carliste	1
Scarlet fever	10	England.	5
Smallpox.	22	Keo.	1
Sore eyes	1	Pellagra:	•
Tonsilitis	3	England	3
Typhoid fever	3	Pneumoniu	•
Whooping cough	2	England	1
w nooping cough	- 2	Kerr	1
CAMP DEVENS ZONE, MASS.		Lonoke.	1
German measles:		Smallbox:	•
Laneaster	1	England	7
	1	Lonoke, route 2.	í
Mumps:		Syphilis	•
Ayer	1	••	2
Lancaster		England	-

CAMP EBERTS ZONE, ARK.—continued.		CAMP JUSEPH E. JOHNSTON ZONE, FLA.—con	ta.
Tuberculosis: Ca	ases.	Jacksonville: Ca	ases
England	. 3		, 4
Typhoid fever:	_	Enteritis	. •
Carlisle			
England	1		
Whooping cough:	_	Mumps	
England	2		
CAMP GORDON ZONE, GA.		Smallpox	
Atlanta:		Syphilis	2
Chicken pox	5	Tuberculosis.	
Diphtheria	2	Typhoid fever	~
German measles	1	Whooping cough Mandarin:	22
Gonorrhea	16	Malaria.	,
Measles	3	Malaria	-
Mumps			
Pneumonia	2	FORT LEAVENWORTH ZONE, KANS.	
Scarlet fever		Leavenworth:	
Syphilis		German measles	1
Smallpox	1	Measles.	
Tuberculosis		Smallpox	
Typhoid fever	1	Tuberculosis	
Decatur:	1	Leavenworth County:	
Typhoid fever	1	Diphtheria	1
Stone Mountain:	•	Measles	9
Whooping cough	6	Pneumonia, lobar	1
	Ü	Scarlet fever	3
CAMP GREENE ZONE, N. C.		Smallpox	1
Charlotte Township:		Typhoid fever	2
Diphtheria	1		
Gonorrhea	22	CAMP LEE ZONE, VA.	
Measles	6	Chancroid:	
Mumps	11	Petersburg	1
Scarlet fever	3	Chicken pox:	
Syphilis	11	Prince George County	6
Trachoma	1	German measles:	
Tuberculosis	6	Ettricks	1
Whooping cough	10	Prince George County	1
		Gonorrhea:	
GULFPORT HEALTH DISTRICT, MISS.		Petersburg	8
Gulfport Health District:		Ettrieks	1
Gonorrhea	5	Hopewell.	1
Malaria	11	Petersburg	2
Measles	4	Mumps:	-
Mumps	3	Ettricks	9
Syphilis	1	Hopewell	31
Tuberculosis, pulmonary	2	Petersburg	1
CAMP HANCOCK ZONE, GA.	- 1	Prince George County	2
Augusta:		Pneumonia:	
Cerebrospinal meningitis	1	Petersburg	1
Chancroid	4	Scarlet fever:	
Chicken pox	6	Hopewell	1
German measles	1	Petersburg.	1
Gonorrhea	9	Septic sore throat:	_
	12	Ettricks	2
**	12	Syphilis:	
CAMP JOSEPH E. JOHNSTON ZONE, FLA.	- 1	Petersburg	1
Atlantic Beach:	- 1	Petersburg	1
Measles	1	Whooping cough:	1
Eastport:	-	Ettricks	3
Malaria	1	Hopewell	1
			-

CAMP LEWIS ZONE, WASH.		CAMP M'CLELLAN ZONE, ALA.—continued.	
	ases.	Anniston—Continued. Ca	ses.
Greendale		Pneumonia	2
Loveland		Smallpox	4
Spanaway	. 1	Tuberculosis	
Measles: Du Pont	. 2	Whooping cough	1
Mumps:	, z	Blue Mountain:	
Du Pont	. 3	Smallpox	1
Parkland		Precinct 20:	_
Scarlet fever:	•	Mumps	1
Parkland	. 1	NORTH CONTINUE NAME OF TAKE	
Syphilis:		NORFOLK COUNTY NAVAL DISTRICT, VA.	
Lakeview	. 1	Chicken pox:	
Tuberculosis, pulmonary:		Lafayette Park Reservation	1
American Lake		Diphtheria:	
Lakeview		Norfolk	1
Parkland	. 1	Malaria:	
Whooping cough:		Ocean View	2
American Lake		Norfolk.	13
Parkland	. 1	Portsmouth	12
CAMP LOGAN ZONE, TEX.		Larchmont	1
Chancroid:		South Norfolk	3
Houston	2	Mumps:	·
Diphtheria:		Ocean View	3
Houston	2	Willoughby.	1
Dysentery:		Norfolk	5
Moonshine Hill	1	Portsmouth	1
Gonorrhea:		Ophthalmia neonatorum:	
Houston	20	Portsmouth	4
Malaria:	_	Pneumonia:	
Eureka	1	Norfolk	2
Moonshine Hill	5	Scarlet fever:	_
Measles: Cypress	1	Portsmouth	2
Houston	1	Norfolk.	1
Moonshine Hill	3	Nerfolk County	1
Mumps:		Norfolk	2
Moonshine Hill	1	Syphilis:	-
Smallpox:		Norfolk	1
Hufsmith	1	Typhoid fever:	_
Syphilis:	-	Norfolk	1
Goose Creek	1	Tuberculosis:	
Houston	- 4	Portsmouth	2
Humble	1	Ocean View	1
Trachoma:	_		
Houston	1	FORT OGLETHORPE ZONE, GA.	
Tuberculosis: Houston	3	Cerebrospinal meningitis:	
Houston	3	Chattanooga.	1
CAMP MACARTHUR ZONE, TEX.		Diphtheria:	•
Waco:	3	Chattanooga	1
Chicken pox	1	Gonorrhea:	
Mumps	27	Chattanooga	17
Scarlet fever.	1	Mumps:	
Smallpox	2	Chattanooga	3
Tuberculosis	4	Rossville	7
		Paratyphoid fever:	
CAMP M'CLELLAN ZONF, ALA.		Chattanooga	1
Anniston:		Pneumonia:	
Chicken pox	3	East Lake	1
Diphtheria	1	Rossville	1
Measles	1	Scarlet fever: Chattanooga	3
Mumps. Pellagra	14	St. Elmo	1
4 V4446.1 U	1	~,	-

FORT OGLETHORPE ZONE, GA.—continued.		CAMP SHERIDAN ZONE, ALA.—continued.	
Smallpox: Ca	ises.	Montgomery—Continued. Ca	ses.
Chattanooga			•
North Chattanooga	. 1		1
Synhilie:		Ringworm	3/
Chattanooga	15	Smallpox	•
Tuberculosis:		Tuberculosis	- 7
Chickamauga	1		•
Typhoid fever:	-	CAMP SHERMAN ZONE, OHIO.	
Alton Park	1		
Chattanooga		Dipitineria:	
	•	Chillicotne	2
Whooping cough: Chattanooga		Measles:	
Cnattanooga	3	Chimcothe	. 5
CAMP PIKE ZONE, ARK.		Liberty Township	1
Little Rock:		Springfield Township	2
Cerebrospinal meningitis	3	Scarlet fever:	_
Chancroid	1	Chillicothe	1
German measles.		Springfield Township	1
Gonorrhea	12	Smallpox:	
		Chillicothe	_
Malaria		Disherenterie and an arrivation of the second of the secon	3
Measles	1	Tuberculosis, pulmonary:	
Mumps	4	Chillicothe	1
Pellagra	2		
Pneumonia	12	CAMP ZACHARY TAYLOR ZONE, KY.	
Scarlet fever	2	Jefferson County:	
Smallpox	11		_
Syphilis	12	Cerebrospinal meningitis	1
Tuberculosis	20	Measles	2
Typhoid fever	1	Sinallpox	3
North Little Rock:	•	Louisville:	
Gonorrhea	1	Chicken pox	4
Malaria		Diphtheria	6
	4	Measles.	8
Mumps	2	Mumps	1
Pellagra	1	Rabies in animals	1
Smallpox	3	Scarlet fever.	2
Syphilis	1	Smallpox	2
Scott:		Tuberculosis, pulmonary	2
Gonorrhea	2	U. S. Government clinic:	-
		Chancroid	_
CAMP SEVIER ZONE, S. C.			2
Measles:		Gonorrhea	29
Judson Mills	1	Syphilis	32
Union Bleachery	1	TIDEWATER HEALTH DISTRICT, VA.	
Mumps:		INDEWATER HEALTH DISTRICT, VA.	
Union Bleachery	3	Chancroid:	
Smallpox:		Newport News	3
Poe Mill	1	Chicken por	
	-	Hampton	1
CAMP SHELBY ZONE, MISS.		Newport News	
Hattiesburg:		Gonorrhea:	. 4
Chicken pox		Newport News	•
	1	-	8
Malaria	2	Measles:	
Measles	1	Hampton	1
Mumps	25	Newport News	12
Pellagra	3	Mumps:	
Septic sore throat	1	Hampton	4
Venereal	10	Newport News	18
Whooping cough	8	Phoebus	1
	- 1	Scarlet fever:	_
CAMP SHERIDAN ZONE, ALA.	- 1	Newport News	4
Montgomery:		Smallpox:	₹.
Chancroid	4	Newport News	
	- 1		1
Chicken pox	1	Syphilis:	
	16	Newport News	4
	76	Trachoma:	
Measles	5	Hampton	1

MDEWATER HEALTH DISTRICT, VA.—continue	đ.	CAMP WADSWORTH ZONE, S. C.—continued.	
Tuberculosis: Ca	Ses.	Mumps: Ca	ses.
Hampton	1	Spartanburg	10
Typhoid fever:		Pellagra:	
Hampton	1	Glenn Springs	1
Phoebus	1	Moores	1
Whooping cough:		Pauline	2
Hampton	1	Pneumonia: lobar:	
Newport News	2	Cedar Springs	1
		Saxon Mills	1
CAMP TRAVIS ZONE, TEX.		Spartanburg	1
San Antonio:		Smallpox:	
Diphtheria	. 1	Spartanburg	2
Dysentery		Tuberculosis:	
Enteritis, gastro	1	Saxon Mills	1
Erysipelas.	ī	Whooping cough:	
Gonorrhea	50	Spartanburg	9
Malaria	1	CAMP WHEELER ZONE, GA.	
Measles	8	CAMP WHEELER ZONE, GA.	
Mumps	6	Bibb County:	
Pneumonia	2	Malaria	1
Syphilis	7	Macon:	
Tuberculosis	23	Malaria	1
Typhoid fever	9	Measles	1
- ,	-	Mumps	1
CAMP WADSWORTH ZONE, S. C.		Scarlet fever	4
Measles:		Smallpox	2
Moores	1	Tuberculosis	2
Spartanburg	3	Typhoid fever	1

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General, United States Army, for the week ended April 26, 1918:

Annual admission rate per 1,000 (disease):	Noneffective rate per 1,000 —Continued.
All troops	National Army camps 50.5
National Guard camps	Regular Army 40
National Army camps	Annual death rate per 1,000 (disease only):
Regular army	All troops 10.4
Noneffective rate per 1,000 on day of report:	National Guard camps 8.3
All troops 42.9	National Army camps
National Guard camps 37.6	Regular Army 9.8

New cases of special diseases reported during the week ended Apr. 26, 1918.

•				Ven	ereal.					rate	1,000 ft.
	Pneumonia.	Dysentery.	Malaria.	Total.	New infections.	Measlos.	Meningitis.	Scarlet fover.	Deaths.	Annual admission rate per 1,000 (disease only).	Noneffective per 1,000 on day of report.
Wadsworth Hancock McClellan Sevier Wheeler Logan Cody Doniphan Bowie Sheridan	4 4 17 8 62 20 5 6 11		1 6 2	17 15 15 43 9 61 5 8 65	12 15 15 24 3 49 1	6 10	1 1 1	2 1 3 11	1 5 3 13 4 5 8 3	332 478 1,065 538 1,634 2,855 377 1,783 1,016 902	17.2 26.6 29.4 25 44.4 40.4 22.1 64.9 54.6 28.7

New cases of special diseases reported during the week ended Apr. 26, 1918—Continued.

				Ver	nereal.					n rate	1,000
	Pneumonía.	Dysentery.	Malaria.	Total.	New infections.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admission rate per 1,000 (disease only).	Noneffective per 1,000 on day of report.
Shelby Beauregard Kearny Devens Upton Dix Meade Lee Sherman Taylor Custer Grant Pike Dodge Funston Travis Lewis	11 23 4 49 15 8 9 2 9 11 121 12 9 21 41 16	2	13 1 2 2 3 1	17 29 6 47 34 18 223 21 21 25 26 60 39 30 30 31 92	7 5 6 5 12 12 12 16 4 1 7 7	8 14 122 8 3 177 255 6 333 60 222 77 222 4	1 1 2 1 5 1	1 20 22 7 4 5 18 3 13	8 3 3 1 1 21 8 15 3 2 2 11 11 19 5	2,138 1,612	51.3 70.2 46.4 45.9 36.4 32.4 30.4 61.8 61.9 57.3 99.5 59.3 59.3 59.4 43.1
Northeastern Department Eastern Department	1 5			8 26	6 8	4 16	2		2 3	936.8 967.3	32.9 32.4
Southeastern Department	2 14 30 7		8	28 32 85 23	21 14 51 15	13 18 11 8	1	18 4	5 2 12 3	1,189.1 1,120.9 1,570.9 1,054.9	51 39.7 47.3 25.8
Corps. Camp Greene Camp Fremont. El Paso Columbus Barracks. Jefferson Barracks Fort Logan. Fort McDowell Fort Slocum. Fort Thomas Disciplinary Barracks,	31 10 3 1 2 3 8	1	1 1	132 11 12 11 18 27 	4 11 1 1 2	43 5 15 1 4 2 7	2	32 1 1 7 4	23 2 1 2 1 5	1,344.1 615.9 908.5 1,079.7 1,465.6 3,557.3 4,036.5 1,325.8 612.7 1,248.3	34.4 21.8 43.5 4.9 60.2 130.5 114.2 47.4 37.5 55.5
Alcatraz	• • • • • •		ļ		ļ					1,155.5	25.4
Fort Leavenworth A. A. Humphreys J. E. Johnston Hoboken Newport News West Point, N. Y Edgewood	3 1 1 21 9 1		1 2	2 35 158 54	25 20 17	6 8 32	1	1 4	1 11 7	1,310.7 761.8 1,337.5 1,383 1,257.4 387.1 658.5	35.3 44.6 39.7 51.6 63.3 8.1 19.2
Prov. Depot for Corps and Army troops Camp Holabird Camp Raritan Springfield Armory National Guard De-	7			19 1 2	1	5 1	•••••	1	6	1,189.5 4,666.7 1,150.4 838.7	41.7 51.3 31 37.6
partments National Army Depart-	2	•••••		9	2	4					
ments	15 616	4	3° 52	76 1,828	32 572	56 509	24	192	258	11,279.4	1 42.9

Annual rate per 1,000 for special diseases.

Disease.	All troops in United States.1	Regulars in United States.1	National Guard, all camps. ¹	National Army, all camps. ¹	Expedition- ary Forces. ²
Pneumonia. Dysentery. Malaria. Venereal. Venereal. Typhoid Typhoid. Measles. Meningitis. Scarlet fever.	26.6 0.17 2.2 78.9 0.13 0.04 21.9 1.0 8.3	21. 1 0. 13 2. 3 90. 5 0. 13 0. 0 26. 1 0. 9 9. 5	32.6 0.17 4.2 53.3 0.0 0.0 4.5 0.88 3.87	29.1 0.2 0.8 86.2 0.0 0.1 25.7 1.4	21.3 Q.0 0.7 52.8 0.0 0.1 5.2 3.4 6.7

¹ Week ended Apr. 26, 1918.

CURRENT STATE SUMMARIES.

Alahama.

From Collaborating Epidemiologist Perry, by telegraph, for week ended May 4, 1918:

Smallpox: By counties—Cullman 1, Jackson 39, Jefferson 43, Tuscaloosa 1, Wilcox 4. No other unusual prevalence.

California.

From the State Board of Health of California, by telegraph, for week ended May 4, 1918:

Twenty-three cases smallpox; 7 in Stockton, 4 in Tehama, 4 in San Francisco, remainder scattered over State. Six cases epidemic cerebrospinal meningitis; 1 in Berkeley, 2 in San Francisco, 2 in Los Angeles, 1 in San Joaquin County. One case poliomyelitis in Santa Monica. Prevalence of measles and other diseases that have been epidemic throughout the State now greatly reduced. Twenty-three cases of hookworm reported from mines in Amador County.

Reported by mail for preceding week (ended April 27):

Cerebrospinal meningitis	6	Poliomyelitis	1
Chicken pox			
Diphtheria		*	
Erysipelas	12	Syphilis	39
German measles			
Gonococcus infection	49	Trachoma	2
Hookworm	13	Tuberculosis	124
Malaria	5	Typhoid fever	16
Measles 8	329	Whooping cough	173
Pneumonia	45	Mumps	176

Connecticut.

From Collaborating Epidemiologist Black, by telegraph, for week ended May 4, 1918:

Smallpox: Hartford 3, Cheshire 1. Cerebrospinal meningitis: Hartford 1, Waterbury 1.

² Week ended Apr. 19, 1918.

Illinois.

From Collaborating Epidemiologist Drake, by telegraph, for week ended May 4, 1918:

Smallpox: One hundred and fifteen, of which in Quincy 9, Chandlerville 6, Elk Township (Jackson County) 6, Decatur 5, Alton 7, Woodriver Tewnship (Madison County) 7, Peoria 20, East St. Louis 8, Millcreek 8, Chicago 5. Diphtheria: One hundred and thirty-two, of which in Chicago 97. Scarlet fever: Ninety-three, of which Oak Park 6, East Alton 7, Moline 5, Chicago 40. Poliomyelitis: Three, of which Chicago 2, Joliet 1. Meningitis: Nineteen, of which one each in Macon Township (Effingham County), Geneva, Nilwood, Petersburg Precinct (Menard County), Springfield 2, Chicago 13.

Indiana.

From the State Board of Health of Indiana, by telegraph, for week ended May 4, 1918:

Diphtheria: One death each—Tipton, Michigan City, Vevay. Smallpox: Epidemic—Logansport, Anderson. Measles: Epidemic—Prairie Creek, Benton County, Henry County. Whooping cough: One death each—Middleton, Hearsey, Henry County.

Kansas.

From Collaborating Epidemiologist Crumbine, by telegraph, for week ended May 4, 1918:

Meningitis: In cities—Junction City 1, Pittsburgh 1, Wichita 1. Poliomyelitis: Wathena 1. Smallpox (10 or more cases): In counties—Allen 14, Butler 13, Cherokee 14, Crawford 19, Graham 13, Montgomery 10, Osborne 30; in cities—Wichita 17. Scarlet fever (over 10 cases): Neosho County, including Chanute, 34.

Louisiana.

From Collaborating Epidemiologist Dowling, by telegraph, for week ended May 4, 1918:

Meningitis 3, smallpox 27, typhoid fever 15, measles 18, pneumonia 16.

Massachusetts.

From Collaborating Epidemiologist Hitchcock, by telegraph, for week ended May 4, 1918:

Unusual prevalence. Diphtheria: Templeton 6. German measles: Gardner 16, Mansfield 20. Measles: Brookline 36, Lawrence 125, Quincy 37, Westford 15, Woburn 14. Scarlet fever: Billerica 5. Smallpox: Lynn 1.

Minnesota.

From Collaborating Epidemiologist Bracken, by telegraph, for week ended May 4, 1918:

Smallpox (new foci): Chippewa County, Leenthrop Township, 1; Freeborn County, Riceland Township, 2; Goodhue County, Kenyon village, 78; Cherry Grove Township, 19; Meeker County, Dassel village, 1; Renville County, Camp Township, 4; Fairfax village, 2; Rice County, Richland Township, 9. One poliomyelitis, nine cerebrospinal meningitis, reported since April 29.

Nebraska.

From the State board of health of Nebraska, by telegraph, for week ended May 4, 1918:

Smallpox: Scotts Bluff County, Stella, Upland, and still existing at Omaha, Lincoln, and Syracuse. Scarlet fever: Scotts Bluff County.

South Carolina.

From Collaborating Epidemiologist Hayne, by telegraph, for week ended May 6, 1918:

Two cases epidemic meningitis.

Virginia.

From the State Board of Health of Virginia, by telegraph, for week ended May 4, 1918:

Two cases smallpox Northampton County, several King William, one Charlotte, several Wise, two Pittsylvania, one Loudoun. One case cerebrospinal meningitis Buckingham County, one Montgomery, one Nansemond. One case poliomyelitis Accomac, one Pittsylvania.

Washington.

From Collaborating Epidemiologist Tuttle, by telegraph, for week ended May 4, 1918:

German measles still widely prevalent, but epidemic decreasing. Scarlet fever situation much improved in Tacoma. Seattle, 30 cases scarlet fever. Yakima County, 35 cases whooping cough.

CEREBROSPINAL MENINGITIS.

State Reports for March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Bibb County Calhoun County Colbert County Etowah County Houston County Jefferson County Morgan County Morgan County Total Ohio: Ashland County Belmont County Belmont County Clark County Clinton County Cluyahoga County Cuyahoga County Franklin County Guernsey County Hamilton County Hamilton County Hamilton County Hamilton County Hamilton County Hamy County Jackson County	22 2 1 3 39 1 2 2 2 1 11 11 1 6 1	Ohio—Continued. Lucas County Mahoning County Medina County Montgomery County Pike County Ross County Scioto County Shelby County Trumbull County Total Washington: Clark County— Camas Pierce County— Tacoma. Whatcom County— Sumas King County— Sumas King County— Scattle Total	2 1 4 1 3 1 3 1 6 1

CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga	3 7	1 4	Newark, N. J. New Haven, Conn.	1	3
Baltimore, Md	1	1	New Orleans, La New York, N. Y Niagara Falls, N. Y	3 28	2 7
Boston, Mass	1	2	Niagara Falis, N. Y Noriolk, Va Oakland, Cal	9	1
Cambridge, Mass Centralia, Ill Chicago, Ill	9		Philadelphia, Pa Pittsburgh, Pa	2 2	1
Cincinnati, Ohio	2	1 1	Pittsfield, Mass. Providence, R. I.	1 1	
Dayton, Ohio	2	1	Richmond, Va St. Joseph, Mo St. Louis, Mo	2 1	3
Fort Wayne, Ind Hartford, Conn	1	1	San Francisco, Cal	1	2
Holyoke, Mass	1	$\begin{bmatrix} 1\\1\\2 \end{bmatrix}$	Scranton, Pa Seattle, Wash Shenandoah, Pa	1	i
Lexington, Ky Lincoln, Nebr	1	ī	Spartanburg, S. C	1	
Los Angeles, Cal Louisville, Ky Macon, Ga	2	2 2	Topeka, Kans	1	i
Manchester, N. H	1	1 1	Wichita, Kans Wilkes-Barre, Pa	1	i
Milwaukee, Wis Nashville, Tenn	6	4 1	Winston-Salem, N. C Worcester, Mass	2 3	<u>2</u>

DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 744.

ERYSIPELAS.

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal Austin, Tex Baltimore, Md Berkeley, Cal Bridgeport, Conn Buffalo, N. Y. Cambridge, Mass. Charlotte, N. C. Chicago, Ill Cincinnati, Ohio. Cleveland, Ohio Denver, Colo Detroit, Mich Duluth, Minn El Paso, Tex Erie, Pa. Kansas City, Kans Los Angeles, Cal Lcuisville, Ky. Manchester, N. H. Anitowoc, Wis Jemphis, Tenn	13 25 51 51 16 63 11	1 1 1 2 1	Milwaukee, Wis Newark, N. J. New Castle, Pa. New York, N. Y Oklahoma City, Okla. Palestine, Tex Philadelphia, Pa Pittsburgh, Pa Pontiac, Mich Portland, Oreg. Quincy, Ill Reading, Pa Richmond, Ind. Rochester, N. Y St. Joseph, Mo St. Louis, Mo. San Francisco, Cal. Steubenville, Ohio. Tacoma, Wash Utica, N. Y	7 1 2 1 1 16 2 2 2	

LEPROSY.

City Report for Week Ended Apr. 20, 1918.

During the week ended April 20, 1918, one case of leprosy was reported at San Francisco, Cal.

MALARIA.

State Reports for March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Butler County. Calhoun County. Colbert County Elmore County Escambla County Etowah County Greene County Houston County Jefferson County Madison County Marshall County	2 3 2 1 1 2 1 6 5 4	Alabama—Continued. Mobile County Shelby County Tuscaloosa County Total Ohio: Gallia County Harrison County Total	1 1 8 38 4 2 6

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex	1 1 14 3	1	Louisville, Ky	14	2

MEASLES.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 744.

PELLAGRA.

State Reports for March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Bibb County Calhoun County Chambers County Colbert County Dallas County Escambia County Henry County Jackson County Limestone County Limestone County Marion County	1 2 1 3 1 1 2 3 12 1 1 1 1 1 1	Alabama—Continued. Pickens County. Shelby County. St. Clair County. Sumter County Tuscaloosa County Walker County Wilcox County. Total. Ohio: Lawrence County Paulding County. Total.	1 3 1 13 2

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Augusta, Ga Austin, Tex Beaumont, Tex Birmingham, Ala Charleston, S. C. Charlotte, N. C. Chelsea, Mass Columbia, S. C. Dallas, Tex Greenville, S. C. Houston, Tex Lincoln, Nebr	1	1 2	Little Rock, Ark. Marshall, Tex Memphis, Tenn Mobile, Ala. Montgomery, Ala Nashville, Tenn New Orleans, La Palestine, Tex Providence, R. I. Roanoke, Va Rocky Mount, N. C. Winston-Salem, N. C.	1 1 1 2 1	

PLAGUE.

Hawaii-Laupahoehoe.

On May 5, 1918, one death from plague was reported at Laupahoehoe, Hawaii.

PNEUMONIA.

City Reports for Week Ended Apr. 20, 1918.

Place.	Place. Cases.		Place.	Cases.	Deaths.
Amsterdam, N. Y	5	1	Long Beach, Cal	1	
Atlanta, Ga	2	30	Los Angeles, Cal	11	
Auburn, N. Y	4	i	Louisville, Ky	5	20
Baltimore, Md	57	21	Lowell, Mass	6	
Baltimore, MdBarre, VtBattle Creek, Mich	1	1	I Lynn Mace	š	3
Battle Creek, Mich	1	1. 1	Manchester; N. H	ă	1 3
Berkeley, Cal	1	1	Manitowac, Wis	ž	1 3
Boston, Mass	25	40	Mansfield, Ohio	2 2 1	l ī
Braddock, Pa Brockton, Mass	3		Marshall, Tex	ī	l
Brockton, Mass	8	2	MCLCESDOFT, PR.	8	10
Buffalo, N. Y	7	37	Malrosa Mass	1	1
Burlington, Vt	1	• • • • • • • • • • • • • • • • • • • •	Michigan City, Ind	2	2
Butler, Pa	1	5	Morgantown, W. Va	1	
Cambridge, Mass	12	5	Morristown, N. J.	1	1
Centralia, Ill	2		IL Newark, N. J	66	21
Chattanooga, Tenn Chelsea, Mass	2	1	New Bedford, Mass	9	3
neisea, mass	. 2	3	Newburyport, Mass	5 3 2 3	4
hicago, Ill	432	185	New Castle, Ind	3	
Chillicothe, Ohio	_1	• • • • • • • • • • • • • • • • • • • •	New Castle, Pa	2	
Cleveland, Ohio	74	59	Newton, Mass	3	
offermille Vann	1		Newton, Mass	3	3 1 3
offeyville, Kans	1		Northampton, Mass	1	1
umberland, Md	1		Oak Park, Ill.	1	3
ayton, Ohio	1 8	9	Palestine, Tex.	4	2
etroit, Mich	54	. 9	Philadelphia, Pa	129	66
ouluth, Minn	2	114	Pittsburgh, Pa.	119	142
Crie, Pa.	4	97	Pittsfield, Mass	1	2
all River, Mass	6	í	Pontiac, Mich	2	1
Findley Ohio	i	-	Quincy, Mass	4	1
Findlay, Ohio	اۋ	2	Reading, Pa. Rochester, N. Y.	7	.4
fort Worth Tex	11	11	Secrements Col	16	12
resno, Cal	il		Sacramento, Cal	2 2	2
rand Rapids, Mich	29	4	Salem, Mass	1	1
lanmond, Ind	2	3	San Francisco Cal	24	1 26
Iarrisburg, Pa	ĩ	4 1	San Francisco, Cal	10	
lattiesburg Miss	î	• 1	Somerville, Mass	8	3 3
Iaverhill, Mass	15	i	Springfield, Mass.	17	3
lolyoke, Mass	2	î l	Steelton, Pa	il	i
louston, Texackson, Mich	īl	5	Steubenville, Ohio	il	
ackson, Mich	6	3	Stockton, Cal	9	4
ohnstown, Pa	ĭ	12	Warn Tex	i l	7
alamazoo, Mich.	4	3	Waltham, Mass	î	3
ansas City, Kans	6 .		Warren, Ohio	3	3
eokuk, lows	4 .		Wichita, Kans	3 .	J
okomo, Ind	1 1		Wilkinsburg, Pa	4	5
ancaster, Pa	3 .		Worcester Mass	26	ğ
awrence Mass	4	2	Yonkers, N. Y	ĭ	ž
eavenworth, Kans	2	ī	York, Pa	il.	
incoln, Nebr	ī	1	Youngstown, Ohio	41	15
ittle Rock, Ark	4 .	- 11	- ,	- 1	

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Jefferson County Ohio: Cuyahoga County Franklin County Hamilton County		Ohio—Continued. Lucas County. Mercer County. Wyandot County. Total.	1 1 1 8

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Cambridge, Mass	2 4 6	1 1 1	New York, N. Y Orange, N. J Warren, Ohio	1 Î	3

RABIES IN ANIMALS.

City Reports for Week Ended Apr. 20, 1918.

During the week ended April 20, 1918, two cases of rabies in animals were reported at Detroit, Mich., and one case at Louisville, Ky.

SCARLET FEVER.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 744.

SMALLPOX.

Kentucky-Laurel County.

On April 29, 1918, smallpox was reported in Laurel County, Ky., from 40 to 60 cases of the disease having occurred in two or three localities in the county.

State Reports for March, 1918.

			Vaccination history of cases.				
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pro- ceding attack.	Number last vaccinated more than 7 years preceding attack.		Vaccination history not obtained o uncertain.	
hio:							
Adams County	9			<u> </u>	3		
Allen County	79			1	78	 	
Ashland County	6				1		
Ashtabula County	5				4		
Athens County	6			1	2		
Auglaize County	6				3	1	
Brown County	2				1		
Butler County	78			1	77		
Clark County	4				4		
Clermont County	1				1		
Clinton County	2				2		
Columbiana County	19				16		
Coshocton County	13				4		
Crawford County	6				4		
Cuyahoga County	216				59	15	
Darke County	8	•••••		1	5		
Delaware County	ĭ			- 1	ĭl		
Erie County	15			1 1	14	•••••	
Fairfield County	23			i	18	•••••••	
Fayette County	2			- 1	ĭ		
Franklin County	61				6Ô		
Fulton County.	21			•••••	21		
Gallia County	20	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	16		
Greene County	14				iil		
Guernsey County					77	2	
Hamilton County	88			2	79		
Hancok County			• • • • • • • • • • • • • • • • • • • •	- 1	16	. 1	
Hancock County Henry County	26				20		

SMALLPOX-Continued.

State Reports for March, 1918-Continuedr.

			,	accination h	istory of cas	es
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.		Vaccinatio history no obtained o uncertain
hio—Continued.						
Hocking County	12				9	
Huron County	iī				Ž	
Jackson County	3				ī	l
Jefferson County	3				ī	l
Knox County	ğ				ï	l
Lake County	3				3 8	I
Lawrence County	12				8	
Licking County	20				š	1
Logan County	11				5	
Lorain County	22			1	3 5 8 2	,
Lucas County	43		1		2	1
Mahoning County	28				6	1 2
Medina County	1				i	
Meigs County	39					:
Mercer County	11				7	1
Miami County	7			3	4	
Montgomery County	35				34	
Morgan County	1				1	
Muskingum County	23				6	1
Ottawa County	1	l			1	
Paulding County	4				2	i
Perry County	23				1	2
Pickaway County	3			1	2	
Portage County	41				$ar{2}$	3
Preble County	1				1	
Putnam County	4				4	
Richland County	1				1	
Ross County	6				6	
Sandusky County	4				4	
Scioto County	53			1	43	
Seneca County	6				6	
Shelby County	.8			1	5	_
Stark County	27		1	1	_6	1
Summit County	217			2	71	14
Trumbull County	17				15	
Warren County	24			3	14	
Van Wert County	.5				4	
Vinton County	14				.4	1:
Warren County	15				15	• • • • • • • • • • • • • • • • • • • •
Washington County	2		• • • • • • • • • • • • • • • •		1	^
Wayne County	20 1		• • • • • • • • • • • • •			2
Williams County	25				1	• • • • • • • • • • • • • • • • • • • •
Wood County					18	
Wyandot County	9				7	
Total	1,618		2	22	730	86
± 0 val	1,010		2	22	130	- 00

Miscellaneous State Reports for March, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama: Baldwin County Barbour County Bibb County Butler County Calhoun County Cherokee County Chilton County Chectaw County Clebourne Ccunty Coffee County Colleborne Ccunty Colleman County Cullman County Cullman County	30 108 1 3 5 3 4 1 8 2	1	Alabama—Continued. Escambia County Etowah County Jackson County Jefferson County Lamar County Madisen County Mobile County Morgan County Morgan County Randolph County Shelby County St. Clair County	1 41 35 23 3	i

SMALLPOX—Continued.

Miscellaneous State Reports for March, 1918-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama—Continued.	_		Washington-Continued.		
Sumter County	3		Ferry County—	_	ļ
Tallapoosa County	8		Republic	9	
Tuscaloosa County	4		King County	3	·
Walker County	3		Seattle	15	· · · · · · · · · •
Washington County	12		Kittitas County	6	
Wilcox County	2		Okanogan County	2	
Winston County	1		Pierce County-		
•			Steilacoom	1	
Total	721	5	Tacoma	5	
			Skagit County	ı	
Oregon:			Snohomish County	4	
Baker County	4		Arlington	29	
Clackamas County	2		Everett	4	
Clatsop County	1		Marysville	1	
Jackson County	ī		Spokane County	10	
Marion County	8		Cheney	19	
Umatilla County	i		Hillyard	10	
Wallowa County	3		Spokane	78	
Wasco County	ĭ		Stevens County	9	
Pertland	11		Walla Walla County	3	
			Whatcom County-	• •	••••••
Total	32		Bellingham	3	· •
	=====		Whitman County	6	
Washington:			Lacrosse	1	
Douglas County-				•	
Mansfield	1		Total	172	
	•				

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Peaths.
Akron, Ohio.	24		Fremont, Ohio.	1	
Alton, Ill	16		Fresno, Cal.	i	
Atlanta, Ga	4		Galeshurg, III	i	!
Bakerstield, Cal	i	1	Galesburg, III		
Baltimore, Md.	á	1	Grand Rapids, Mich	ä	
Beaumout, Tex	ï	i	Greeley, Colo.	- ;	
Bellingham, Wash	i		Hamilton, Ohio	10	
Diaminulan Ala			Parrising Pa	3	
Birmingham, Ala	-:		Hartford, Conn	- 3	
Braddock, Pa				s s	
Buffalo, N. Y	1		Independence, Mo	50	
Burlington, lowa	•		Indianapolis, Ind	1913	
anton, Ohio			Jola, Kons		· · · · · · · · • •
edar Rapids, Iowa		• • • • • • • • • • • • • • • • • • • •		÷ :	
hanute, Kans	ı,		Janesville, Wis	1	• • • • • • • • • • • • • • • • • • •
harleston, W. Va	1		Kalamazoo, Mich		!
hattanooga, Tenn	. 3		Kansas City, Kans	15	·
hicago, III	11		Knoxville, Tenn	7	
Incinnati, Ohio	19	l ·	La Crosse, Wis	::	
Cleveland, Ohio	31		La Fayette, Ind	1	
offevville, Kans	12		Lancaster, Ohio	.1	
olorado Springs, Colo	ī		Leavenworth, Kans	1	
olumbus, Ohio	4		Lima, Ohio	15	
ouncil Bluffs, Iowa	19		Lincoln, Nebr		: · · · · · · · · · · · · · · · · · · ·
rawfordsville, Ind.	ĭ		Little Rock, Ark	6	
Danville, Ill	ā		Logensport, Ind	i i	• • • • • • • • • •
Pavenport, Iowa	i		Lorain, Ohio	.;	• • • • • • • • • •
Dayton, Ohio	i		Los Angeles, Cal		
Denver, Colo.	25		Leuisville, Ky		· · · · · · · · · · · · · · · · · · ·
Den Meines Tours	23	•••••	Madison, Wis		
Des Moines, Iowa		• • • • • • • • • •		-	• • • • • • • • •
Petroit, Mich	18	1	Marion, Ind	1	• • • • • • • • •
Dubuque, Iowa	-	• • • • • • • • • •	Massillon, Ohio	3	
Durham, N. C	1		Memphis, Tenn	6	
Elmira, N. Y	1		Michigan City, Ind	1	
El Paso, Tex	2		Middletown, Ohio	7	
Llyria, Ohio	1		Milwankee, Wis	3	
rie, Pa	1		Minneapolis, Minn	17	
Fargo, N. Dak	1		Mobile, Ala	2	
Flint, Mich	3		Montgomery, Ala	1	
Fort Scott, Kaus	6		Morgantown, W. Va	1	1
Fort Smith, Ark	3		Munde, Ind.	3	
ort Wayne, Ind	3	1	Muskogee, Okla.	ä	
ort Worth, Tex	52	1	Nashville, Tean	i	1

SMALLPOX—Continued.

City Reports for Week Ended Apr. 20, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Newark, N. J. New Castle, Ind. New Orleans, La. Niagara Falls, N. Y. North Little Rock, Ark Ogden, Utah Oklahoma City, Okla. Omaha, Nebr. Oshkosh, Wis Parkersburg, W. Va Peoria, Ill Philadelphia, Pa Pittsburgh, Pa Pontiac, Mich	1 6 1 18 34 2 2 1 17 3 13		Scranton, Pa. Seattle, Wash. Sioux City, Iowa. South Bend, Ind. Spartanburg, S. C. Spokane, Wash. Springfield, Ill. Springfield, Mo. Steelton, Pa. Superior, Wis. Tacoma, Wash. Terre Haute, Ind. Toledo, Ohio. Topeka, Kans.	1 10 13 2 1 1 4 15	
Providence, R. I. Provo, Utah. Quincy, Ill. Roanoke, Va. St. Joseph, Mo. St. Louis, Mo. Salina, Kans. Salt Lake City, Utah. Sandusky, Ohio. San Francisco, Cal.	2 10 2 6 16 4 19	1	Tuscaloosa, Ala. Warren, Ohio. Washington, D. C. Waterloo, Iawa. Watertown, N. Y. Wheeling, W. Va. Wichita, Kans. Wilkes-Barre, Pa Winston-Salem, N. C. Youngstown, Ohio.	2 4 5 1 20	

TETANUS.

City Reports for Week Ended Apr. 20, 1918.

. Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md. Chicago, Ill Galveston, Tex	1	1 i	Mobile, Ala New Orleans, La Providence, R. I		1 1 1

TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 744.

TYPHOID FEVER.

State Reports for March, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Calhoun County. Cullman County. Elmore County. Etowah County. Fayette County Hale County Jackson County. Leuderdale County. Madison County Marshall County Montgomery County Pickens County Russell County Russell County Total.	2 1 1 13 1 4	Ohio: Adams County. Ashtabula County. Belmont County. Butler County. Clark County. Columbiana County. Crawford County. Crawford County. Defiance County. Delaware County. Franklin County. Franklin County. Hamilton County. Hardin County. Hardin County. Hardin County. Hocking County. Jackson County. Jackson County. Jefferson County.	433447 113551 23151

TYPHOID FEVER—Continued.

State Reports for March, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
Ohio—Continued. Lawrence County Licking County Lorain County Lucas County Mahoming County Medina County Monroe County Muskingum County Paulding County Paulding County Prickaway County Sandusky County Scioto County Stark County Stark County Trumbull County Trumbull County Total. Oregon: Coos County Jackson County Jackson County Lane County	3 12 9 1 1 1 1 1 2 3 1 4 1 2 2 1 19	Oregon—Continued. Linn County. Portland Total Washington: Benton County Prosser Clallam County Grays Harbor County— Aberdeen King County Seattle Klickitat County Pacific County Skagit County Mount Vernon Spokane County Fairfield Spokane Stevens County Yakima County North Yakima Total	1 1 2 1 2 1 1 1 1 2 1

City Reports for Week Ended Apr. 20, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Auburn, N. Y.	1 3	i	Louisville, Ky	4	
Baltimore, Md Birmingham, Ala	3	1 1	Lowell, Mass	6	
Buffalo, N. Y	2	1 2	Minneapolis, Minn	2	'
ambridge, Mass	2		Mobile, Ala	ĩ	
Lape Girardeau, Mo	l î		Moline, Ill	. .	• • • • • • • • • • • • • • • • • • • •
harleston, S. C	l î		Morgantown, W. Va	1	
Charleston, W. Va		1	Nashville, Tenn	2	
helsea. Mass	1		Newark, N. J.	2	
Chicago, Ill	4		New Britain, Conn	1	
incinnati, Ohio	l	1	New Castle, Pa	1	
Cleveland, Ohio	2	1	New Orleans, La	1	
Cleveland, Ohio Connellsville, Pa. Covington, Ky	1	î	New York, N. Y	7	
ovington, Ky	2		North Yakima, Wash	1	
anville, Ill	1		Oakland, Cal	3	
avenport, Iowa	2		Ogden, Útah	1	
Des Moines, Iowa	1		Philadelphia, Pa	4	
Petroit, Mich		3	Pittsburgh, Pa	7	
Ourham, N. C	1		Portland, Me.	1	• • • • • • • • •
lmira, N. Y.		·····i	Portland, Oreg Portsmouth, N. H		
Il Pasó, Tex		1	Providence, R. I	i	
airmont, w. va	2		Quincy, Mass.	- 1	
an river, mass	1	1	Dochostow N V		
Nint Mich	7	1	Rock Island, Ill.	11	
Port Smith Arb	-	. 1	St. Louis, Mo.	3	
rand Rapids Mich			Sandusky, Ohio	2	
Il Faso, Tex. 'airmont, W. Va. 'ail River, Mass. 'arrell, Pa. 'lint, Mich. 'ort Smith, Ark. 'rand Rapids, Mich. 'fammond, Ind.	- 1	1	Shamokin, Pa.	ī	
			Stockton, Cal.	2	
Iartford, Conn	ī	1	Sunbury, Pa	5	
Iouston, Tex	3	1	Superior, Wis Tacoma, Wash	1 1	••••••
ersey City, N. J	1 2	1	Tacoma, Wash	1 1	
ohnstown, Pa	2	1	Warwick, R. I	1	
ansas City, Kans	1	1	Wheeling, W. Va		
okomo, Ind	1		Williamsport, Pa	1	
okomo, Indawrence, Mass		1	Wilmington, Del	1	
eavenworth, Kans	1 1		Winston-Salem, N. C	1	
incoln, Nebr		1	York, Pa	3	
ittle Rock, Ark	1 1		Youngstown, Ohio	1	
os Angeles, Cal	4		·		

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. State Reports for March, 1918.

Place.	C	ases report	ed.		Cases reported.				
Place.	Place. Diphtheria. Measles. Scarlet fever.	Scarlet fever.	Place.	Diph- theria.	Measles.	Scarlet fever.			
AlabamaOhio	37 574	1,178 2,202	30 940	Oregon	10 44	1,579 867	43 326		

City Reports for Week Ended Apr. 20, 1918.

	Popula- tion as of	Total	Diph	theria.	Me	isles.		rlet ær.		ber- osis.
City.	July 1, 1916 (estimated by U. S. Census Bureau).	deaths from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Casses.	Deaths.
Over 500,000 inhabitants: Baltimore, Md Boston, Mass Chicago, Ill Cleveland, Ohio Detroit, Mich Los Angeles, Cal New York, N. Y Philadelphia, Pa Pittsburgh, Pa St. Louis, Mo From 300,000 to 500,000 inhabit	589, 621 756, 476 2, 497, 722 674, 073 571, 784 503, 812 5, 602, 841 1, 709, 518 579, 990 757, 309	281 286 862 267 333 155 1,755 628	4 71 107 23 56 20 285 58 12 43	2 6 15 3 7 	623 326 83 52 80 157 1,467 770 434 116	4 4 4 43 6	11 37 37 8 44 6 130 30 15 34	1 1 5	70 69 493 43 44 41 299 102 33 43	45 35 111 32 33 24 · 221 72
ants: Buffalo, N. Y. Cincinnati, Ohio. Jersey City, N. J. Milwaukee, Wis. Minneapolis, Minn. Newark, N. J. New Orleans, La. San Francisco, Cal. Seattle, Wash. Washington, D. C. From 200,000 to 300,000 inhabit-	468, 558 410, 476 306, 345 436, 535 363, 454 408, 894 371, 747 463, 516 348, 639 363, 980	177 98 178 172 190	13 18 13 8 18 25 8 16 6	2 1 1 2 3 1 1	99 32 62 321 25 556 2 56 91 553	1 1 3 8	17 2 27 30 23 23 1 7 19 30	2 3 2	34 30 15 45 18 37 42 25 10 28	29 22 11 8 13 22 27 20
ants: Columbus, Ohio Denver, Colo Indianapolis, Ind Louisville, Ky Portland, Oreg Providence, R. I Rochester, N. Y From 100,000 to 200,000 inhabit-	214, 878 260, 800 271, 708 238, 910 295, 463 254, 960 256, 417	76 98 109 64 102 77	6 12 2 2 2 11 6	1	44 86 14 16 223 174 69	4 1	35 31 51 2 8 8 13	1 3	7 14 21 12 2 2 17	12 7 10 3
ants: Atlanta, Ga. Birmingham, Ala Bridgeport, Conn. Cambridge, Mass. Camden, N. J Dallas, Tex Dayton, Ohio Des Moines, Iowa Fall River, Mass Fort Worth, Tex Grand Rapids, Mich Hartford, Conn Houston, Tex Lawrence, Mass Lowell, Mass. Lynn, Mass Memphis, Tenn Nashville, Tenn New Bedford, Mass New Haven, Conn Oakland, Cal.	190, 558 181, 762 181, 759 112, 981 106, 233 124, 527 127, 224 101, 598 128, 366 104, 562 128, 291 110, 900 112, 307 100, 580 113, 245 102, 425 143, 995 113, 158 143, 685 149, 685	97 98 39 29 16 43 46 34 45 60 40 31 43 28 64 87	3 1 7 9 2 1 2 10 3 1 1 4 1 3 1 2 8	1 1	4 9 6 75 28 22 6 11 17 20 36 17 52 4 26 6 3	1	2 4 4 24 1 9 3 1		7 9 11 6 15 7 2 6 7 2 6 4 2 21 2 13 11 7	69 54 2 62 55 54 41 17 66 23

	Popula- tion as of July 1, 1916	Total	Diph	theria.	Ме	asles.		arlet ver.		ıber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
E 100 000 to 200 000 inhobit										1
From 100,000 to 200,000 inhahit- ants—Continued.	ĺ	l	l	1	ĺ	1		l	1	
Omaha, Nebr	165, 470 109, 381 156, 687	45	13	2	11		23	1	ļ	
Reading, Pa. Richmond, Va. Salt Lake City, Utah	109,381	68	2 2		77 92		5 3		·	•]
Salt Lake City. Utah		32	7	•••••	14		4		9	
Scranton, Pa	146, 811		4		8		. 1		2	1
Saranton, Pa. Spranton, Pa. Spokane, Wash Springfield, Mass Syracuse, N. Y. Tacoma, Wash Toledo, Ohio. Trenton, N. J. Wongester Mass	150, 323						2		····	·
Syramisa N. Y	105, 942 155, 624	39 62	5 5	2	32 126	i	5		12	
Tacoma, Wash	112,770		5		9		40		120	
Toledo, Ohio	191,554	77	5		23		11		23	1
Worcester, Mass	111,593 163,314	46 75	4 2	1 1	8				8	:
Youngstown, Ohio	108, 385	10	2	1	4 24		4	•••••	8	
From 50,000 to 100,000 inhabit-	200,000								. *	1
ants:							1 1			1
Akron, Ohio Allentown, Pa	85, 625 63, 505	•••••	9	•••••	10		18		10	
Altoona, Pa	58,659		6		22 12		1 3	• • • • • • •	4	
Atlantic City, N. J	57,660				46				3	l
Altoona, Pa. Atlantic City, N. J. Augusta, Ga. Bayonne, N. J.	50, 245	21			13				3	;
Berkeley Cal	69, 893 57, 653	10			27 9		1		3	
Berkeley, Cal. Binghamton, N. Y. Brockton, Mass	53,973	18	1 6		16		2 5		·····2	
Brockton, Mass	67,449	19	3	1	14		4		3	1 :
Canton, Onio	60, 852	13	1		4		1			
Charleston, S. C	60,734 60,075	35 3	1	•••••	l	• • • • • • •	3		····· <u>2</u>	1
Covington, Ky	57, 144	26	1		10		3		2	1 2
Duluth, Minn	94,495	31	2		5				5	1 1
Elizabeth, N. J. El Paso, Tex.	86,690 63,705	11	6		111		3		7] .
Erie. Pa.	75, 195	57	1	•••••	16 44	2	4 3		15	15
Erie, Pa. Evansville, Ind	76,078 54,772	36			9				2	7
	54,772	23	2		6		10		3	2
Fort Wayne, Ind. Harrisburg, Pa. Hoboken, N. J. Holyoke, Mass.	76, 183 72, 015	44	7 3		22 8		1		3	a
Hoboken, N. J.	77,214	23	7	•••••	5		4		5	4
Holyoke, Mass	65.286	15	1	i	4				ž	
Johnstown, Pa.	68,529	• • • • • • • •	2		5		5]	. , <u>.</u> .	
Kansas City, Kans Lancaster, Pa	99, 437 50, 853	•••••	2	• • • • • •	43 35		5		7 2	
Little Rock, Ark	57,343	12			2		3		8	1
Malden, Mass	51,155	8			21		1			
Manchester, N. H Mobile, Ala	78, 283 58, 221	22 23	2	•••••	16		2	•••••	4	2
New Britain, Conn	53, 794 89, 612	12	2		20		5	•••••	•••••	4
Norfolk Vo	89,612				13		4			3 6
Oklahoma City, Okla	92,943 71,744	22	••••	.			2 .			5 1
Oklahoma City, Okla	59,411	14 24	4	•••••	21 24		· · · i		1	1 2
Peoria, Ill	71,458	29			7		•			3 1
Portland, Me	63,867	21			3		i			
Rockford, III	55, 185	25 32		1	13		1 .	.		3 3 2 1
Sacramento, Cal	66,895 55,642	21	1	1	31	•••••	3 .	• • • • • •	•••••	3
St. Joseph, Mo	85, 236	21 23 22	6	i	3		i :		i	ĩ
San Diego, Cal	53,330	22	5 .		35	1	2 .			
Schenectady, N. Y	99,519 57,078	31	4 -		13		.1 -		3	3
Somerville, Mass	87.039	27	3				11		3	1 3
South Bend, Ind.	68,946	27 13	3 .		58 5 80				2	ĭ
Springfield, Ill	61,120	28	1 .		80 .					3
Springfield, Ohio Terre Haute, Ind	51,550	28 27 48		;-	3 .		;- -		4	3 1 3 2 3 3
Troy, N. Y.	77.916	35	5 1.	1	3		2 .		4	ა 3
Utica, N. Y.	85,692	24	i :		52		1 .		6 .	
Wilkes Revre De	70,722	-	٠٠٠٠.		38		1 .		3	····i
Troy, N. Y. Utica, N. Y. Wichita, Kans. Wilkes-Barre, Pa. Wilmington, Del Yonkers, N. Y. York, Pa.	87,039 68,946 61,120 51,550 66,033 77,916 85,692 70,722 76,776 94,265 99,838	40 .	7 -		66 36 32		4 .		1 .	2 3
Yonkers, N. Y	99, 833	22			32	2	3 5 2			3
York Pa	51,656	1.	3 .		ا ۋ	~			41	•

	Popula- tion as of July 1, 1916	Total deaths	1 -	theria.	Me	asles.	Sca fe	rlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabitants:										
Alameda, Cal Amsterdam, N. Y. Auburn, N. Y. Austin, Tex Battle Creek, Mich Beaumont, Tex Dellischen, Wach	27,732 37,103	10	ļ <u>.</u> .	ļ	37	 	1	ļ	5	ļ <u>.</u>
Amsterdam, N. Y	37, 103 37, 385	10 10	1		5 3				1 2	1 1
Austin, Tex	37,385 34,814	22	i			i	i		l	3
Battle Creek, Mich	29,480 27,711	·····; <u>,</u>	2		78		5		1	····· ₂
Rellinghem Wash	32,985	19	1		i	1	i			
Bellingham, WashBrookline, Mass	32,730	7	1		35		1		1	1
Burlington, Iowa Butler, Pa	25,030 27,632	8	2	ļ	···ii		2 4			
Butte, Mont	43 425	51	ĺí		1 2		6	2		
	37,308						7			
Central Falls, R. I	25,636 29,941	17	1		3	i	i		1	3
Charlotte, N. C.	39,823	16			13	<u>.</u> .	l		7 2	1
Chelsea, Mass	46 192	12	2		37	2	4		2	1
Chiconge Mass	41,396 29,319	10	1 3	····i	6				2 5	i
Chicopee, Mass Clinton, Iowa Cohoes, N. Y.	29,319 27,3%6 25,211			l <u>.</u>	6		2			ļ .
Cohoes, N. Y	25,211	.5	<u>-</u> -				1		1	<u>:</u>
Colorado Springs, Colo Columbia, B. C	32,971 34,611	15	2		7 3				5	6
Council Bluffs, Iowa	31,484	12			2		4			
Cranston, R. I.	25,987 26,074	11			11		9		3	1
Cumberland, Md Danville, Ill	32,261	5 19			17		9		4	4
Davenport, lowa	48,811						2			
Durham. N. C	25,061 30,530	9			11				3	1
East Orange, N. J	42,458	5	4		16 77		3		1	i
Elgin, Ill	28,203	8			1		ĭ			
Elgin, Ill. Elmira, N. Y. Evanston, Ill.	38, 120 28, 591	7 8	1		28			• • • • • •	4	
Everett. Mass	39,233	7	i		ii.		1		i	
Everett, Mass. Everett, Wash. Fort Smith, Ark.	35, 486				5					
	28,638 34,958	11			1 9				1	
Galveston, Tex	41,863	11	i						i	3
Green Bay, Wis	29,353	12	1		40		2	<i>:</i>		2
Hamuton, Unio	40,496 26,171	12 9	i	•••••	3 2		1	•••••		
	48,477	15	2		59	1	1		1	1
Hazieton, Pa	28,491 35,363	•••••	2 4	•••••	22 8		24			i
Jackson, Mich Jamestown, N. Y	36,580	12 18	1		25		23		2	2
Kalamazoo, Mich	48,886	19			4				4	2 2 1
Kenosha, Wis	31,576 38,676	16	6	2	1 12		2	1	1 2	1 2
La Crosse, Wis	31,677	9	i		12					
Lexington, Ky	41 007	20			12				1	·····2
Kenosila, Wis- Knoxville, Tenn La Crosse, Wis- Lexington, Ky- Lima, Ohio Lincoln, Nebr- Long Beach, Cal	35,384 46,515 27,587 36,964	14 8	1 3				7	•••••		•••••
Long Beach, Cal	27,587	10			9		2			
Lorain, Ohio	36,964		¦		1		1		1	•••••
Lynchburg, Va. Macon, Ga. Madison, Wis. McKeesport, Pa. Mediord, Mass.	32,940 45,757	8 16		•••••	8		7		4	i
Madison, Wis	30,699	13			2		2			ī
McKeesport, Pa	47,521	••••••	<u>.</u>		14		•••••			i
Moline, Ill	26, 234 27, 451	5 18	2 2		8 26		1 5	····i		
Montclair. N. J	26,318	4			22 8				3	2
Montgomery, Ala Muncie, Ind	42 000 1	30 8	;-		8		···i		····i	1 2
Muskogee, Okla	44.218	•	1		2			:::::	*.	
Muskogee, Okla	27,327	6					1			•••••
Newark, Ohio	29,635	14		•••••	3 3 5		•••••			•••••
New Castle, Pa	41, 133				5					
Newport, Ky	25, 424 44, 218 27, 327 29, 635 29, 603 41, 133 31, 927	12							2	2
New Castle, Pa Newport, Ky Newport, R. I Newton, Mass Newton, Mass		5 12	1	• • • • • •	5	•••••	1 1	•••••	3	i
Triagala Fallo, IV. I	43,715 37,353	13	i		5		2		3 1 2 1	.
Norristown, Pa	31,401	j			1	···i		2	2 !	

	Popula- tion as of July 1, 1916	Total deaths		ntheria	Me	asles.		arlet ver.	Tu	ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes	۱.	Deaths.	Сазез.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabit- ants—Continued.			<u>`</u>		 					
ants—Continued. Oak Park, Ill	26,654	12	1	İ	24		1			
Oak Park, Ill. Ogden, Utah. Orange, N. J. Oshkosh, Wis	31, 404 33, 090 36, 065				31				1	i
Oshkosh, Wis	33,000 36,065	13			38		3		2	
Pasadena, Cal. Pittsfield, Mass	46,450	11	ר ו		59		1		4	3
Portsmouth Va	38, 629 39, 651	19 17			1 12		1 3		3	·····i
Portsment, Wa. Poughteepsie, N. Y. Quincy, Ill Quincy, Mass Racine, Wis Roanoke, Va. Rock Island, Ill. Salem Mass	30, 390 36, 798	12 21	i	1	130		1		3	2
Quincy, Ill	36, 798 38, 136	21	5	1	15 56	····i				
Racine, Wis	46,486	21 17			27		1	····i	2	1 2
Roanoke, Va	43, 284 28, 926	21	1 5		51		i		1	
Salem, Mass	48, 562	10			17 17		1	• • • • • • •	3	·····ż
San Jose, Cal	38, 902		····i·		22 2					_
Salem, Mass San Jose, Cal Sheboygan, Wis Shenandoah, Pa Springfeld, Mo Steubenville, Ohio Stockton, Cal Superior, Wis Taunton, Mass Topeka, Kans Waco, Tex Walla Walla, Wash Wattham, Mass Waterloo, Iowa	29, 201	16	2		Z	1	2	2	4	·····ż
Springfield, Mo	40.341	18			1		2			6
Stockton, Cal	27, 445 · 35, 358	25 16	i		1 8		}		2	i
Superior, Wis	40.226	24					3			
Topeka, Kans	36, 283 48, 726	22			···ii		20	1		2
Waco, Tex	33, 385	16			10		1			• • • • • •
Walla Walla, Wash	25, 136 30, 570	12			1 25		•••••		····i·	·····i
Waterloo, Iowa. Waterloo, Iowa. Watertown, N. Y. West Hoboken, N. J. Wheeling, W. Va. Williamsport, Pa. Winston Salam N. C.	35,559	4			1		3			
West Hoboken N J	29, 894 43, 130	1 8			74 9				1 .	• • • • •
Wheeling, W. Va	43, 139 43, 377	20	i		7		2 4		3	·····ż
Williamsport, Pa Winston-Salem, N. C	33,809 31,155	<u>24</u>	2		···.5		2			•••••
Zancsville, Ohio	30, 863	7							5	4
From 10,000 to 25,000 inhabitants: Alton, Ill Ann Arbor, Mich Anniston, Ala. Appleton, Wis Asbury Park, N. J Ashtabula, Ohlo Bakersfield, Cal Barre, Vt Bedford, Ind Beloit, Wis Bethlehem, Pa	22,874	11		- 1		ļ	.	- 1		•
Ann Arbor, Mich	15 010	8			21		1			1 2
Anniston, Ala	14,112 17,834 14,007	••••••	1		2 4		-			····i
Asbury Park, N. J	14,007	3 6 7 5	2		2		i			
Ashtabula, Ohio	21,498 16,874	7			2 6		i			·····ż
Barre, Vt.	12, 169 10, 349	4					2		1	1
Bedford, Ind	10,349 18,072	4 9		···i·	10	-				3
Bethlehem, Pa	14, 142			1	21		2		1 .	•••••
Bloomington, Ind Braddock, Pa	11,383 21,685	2	····i	····i			1 .			•••••
Burlington, Vt. Cairo, Ill. Cape Girardeau, Mo Carlisle, Pa Centralia, Ill. Chouste, Yang	21.617 /	8	i i			·····				•••••
Care Girardeau Mo	15,794	10		•••••	1					•••••
Carlisle, Pa	10,775 10,726 11,538		i				3 .		1 .	••••
Chanute Kons	11,538 12,455						1 .			· · · · · •
Cheyenne, Wyo	111.320		2		6		2		· i :	• • • •
Chillicothe, Ohio	15,470 13,075	3 3			8 .		4 .		i	• • • • •
Coatesville, Pa	14,455				8		i .			• • • •
Concord N H	17,548	9	1		2		9			
Centralia, Ill Chanute, Kans Cheyenne, Wyo Chillicothe, Ohio Clinton, Mass Coatesville, Pa Coffeyville, Kans Concord, N. H. Connellsville, Pa Corpus Christi, Tex Crawfordsville, Ind Dover, N. H Du Bois, Pa Dunmore, Pa	22,669 15,455				5 12				1	••••
Crawfordsville Ind	10.432	6	6							2
Dover, N. H.	11, 164 13, 272	1 4	0	1	···i		···i			••••
Du Bois, Pa.	13,272 14,665 20,776		į.		3 .					
Dunmore, Pa Elyria, Ohio	18 618 1	io	1 .			••••	1	•	·i-	••••
Fairmont, W. Va	15,506				i .			····		
Elyria, Ohio Fairmont, W. Va Fargo, N. Dak Farrell, Pa	15,506 17,389 110,190 114,858	5	2	1	4 .	•••• ••				
Findlay, Ohio	114 858	7	1		46			• • • • • • • • • • • • • • • • • • • •	3	••••

¹ Population Apr. 15, 1910; no estimate made.

	Popula- tion as of July 1, 1916 (estimated	Total deaths		htheria	Me	asles.		arlet ver.		iber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 10,000 to 25,000 inhabit-		7	1		\vdash					
From 10,000 to 25,000 inhabit- ants—Continued.		١.	l	1	١.	1	1	1 .	1	1
Fort Scott, Kans Fremont, Ohio	10,550 10,882	4			2 7					
Galesburg III	24, 276 17, 140	9	i		17		i	1		
Gardner, Mass	17, 140	2	1		. 2				1	1
Fremont, Ohio Galesburg III Gardner, Mass Greeley, Colo Greensboro, N. C Greensburg, Pa Greenville, S. C Hackensack, N. J Harrison, N. J Hattiesburg, Miss	11,420 19,577	5	i	-	4	•	6			
Greensburg, Pa	19,577 15,483 18,181 16,945	l. .			: ī					
Greenville, S. C	18, 181	9			. 1		1			1
Hackensack, N. J	16,945 16,950	6	1		6		3		3	1
Hattiesburg, Miss	18 499	8			2		3		2	i
Homestead, Pa	22, 466				6		1		1	•
Independence, Kans	14,506 11,672	5 7	2				4		1	i
Iola, Kans	11 068 1		J		i		2			
Iola, Kans. Janesville, Wis. Kearny, N. J. Keokuk, Iowa	14,339 23,539 114,008	5			1		i			
Kearny, N. J	23,539	9	1		29 11		1 6			····
	20.930.1	ii			112				1 2	1 *
Lafayette, Ind	21,280	10	1							i
Lancaster, Ohio	15,670 13,321	• • • • • • •			4		7		2	2
Leavenworth Kans	1 19, 363	9	1		31		i	• • • • • •	•••••	
Lincoln, R. I	10.383		l		6					•••••
Logansport, Ind	21,046 15,395	8			6				2	
Lincoln, K. I Lozansport, Ind Long Branch, N. J Mahanoy City, Pa Manitowoc, Wis Mansfield, Ohio Marinette, Wis Marion, Ind Marshall, Tex Mason City Iowa	15,395 17,463	2	i-		3		4		1	1
Manitowoc. Wis	13, 805	7			li		5			•••••
Mansfield, Ohio	22 734 1	7			33				i	·····2
Marinette, Wis	14,610 19,834 13,712	4			1		2	1		
Marion, ind	13, 712	2			2	•••••		•••••		•••••
Mason City, Iowa	14.457	1 5 3								i
Massillon, Ohio	15,310 13,802	3	1		3		1		1	•••••
Meadville, Pa	13,802 17,445	4			· 3		•••••		····i	
Michigan City. Ind	21,512	3	5							•••••
Middletown, Ohio	15, 625	3 6			1					•••••
Mishawaka, Ind	16, 385 18, 214	2 4	2		22		2			• • • • •
Monessen, Pa	21.630		4		10				····i·	• • • • • •
Morgantown, W. Va	13,709	2			1		1		3	
Morristown, N. J	13, 284 1	2 7 3	1		1			{	ا-يا	
Marshall, Tex. Mason City, Iowa. Massillon, Ohio. Meadville, Pa. Melrose, Mass. Michigan City, Ind. Middletown, Ohio. Mishawaka, Ind. Missoula, Mont. Monessen, Pa. Morgantown, W. Va. Morristown, N. J. Moundsville, W. Va. Mount Carmel, Pa. Muscatine, Ia.	11, 153 20, 268	3	•••••		•••••				3	2
Muscatine, Ia	17,500				2					
Nanticore Pa	23, 126	ا.ی:ا	. 1		•••••				1	••••••
New Albany, Ind	23, 629 15, 243	10 14	1	•••••	8	•••••	•••••	•••••	1	1
New Castle, Ind	13, 241	4					3			····i
New London, Conn	20, 985	12					1		2	
North Adams, Mass Northampton, Mass	1 22, 019 19, 926	8 7		• • • • • • •	•••••				1	····i
North Braddock, Pa	15, 148 1.						···i		····i·	
North Braddock, Pa North Little Rock, Ark North Yakima, Wash	14,907	1	1						1	i
North Yakima, Wash	20,951		1	•••••	14 2		•••••	•••••	···i	•••••
Oil City, Pa	19, 297 11, 854	10	:::::		14					
Parkersburg, W. Va	20,612 11,714 18,599	7			5				i	i
Phoenixville, Pa	11,714				ا-ي		· · · • ·		1 .	••••
Pittston, Pa. Plainfield, N. J.	23, 805	12	····;·		3 6		···i			1
Pontiac, Mich	17 524 1	16	2 1	::::::	1	::::: <u>:</u>	4		4	2
Portsmouth, N. H	11,666				3		3 .			••••
Provo IItah	11,666 22,372 10,645	3	3		4			-	-	••••
Provo, UtahRahway. N. J.	10, 045	3		•••••	2					•••••
Rahway, N. J. Raleigh, N. C.	20, 127	9			11					••••
Redlands, Cal	14,000 1.				2		- 1			

¹ Population Apr. 15, 1910; no estimate made.

	Popula- tion as of July 1, 1916	Total deaths	Diph	theria.	Mea	sles.		rlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 10,000 to 25,000 inhabit- ants—Continued. Reno, Nev	12,067 14,831 12,098 20,193 10,627	10 93 4 10 11 11 11 6 8	3 3 4 1 1 1	2	1 12 12 13 13 22 111 10 3 3 11 12 57 3 18 30 16		711		1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22

FOREIGN.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

	Mar. 21	-31, 1918.	Remain-		Mar. 21	-31, 191 8.	Remain-
Disease.	New cases.	Deaths.	under treatment Mar. 31, 1918.	Disease.	New cases.	Deaths.	under treatment Mar. 31, 1918.
DiphtheriaLeprosy	2	1	6 12	Paratyphoid fever Scarlet fever			27
Malaria Measles	5 5	1	137 49	Typhoid fever Varicella	21 6	3	³ 50 15

¹ From the interior, 30.

DOMINICAN REPUBLIC.

Dengue.

Dengue was reported present in the Dominican Republic during the week ended March 30, 1918, as follows: La Vega, 3 cases; Puerto Plata, 2 cases; San Francisco de Macoris, 1 case.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended May 10, 1918.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India: Bombay	Jan. 27-Feb. 16 Jan. 27-Feb. 2 Feb. 10-23	16	20 5 3	
Saigon Philippine Islands: Provinces	Mar. 4-10	1		Mar. 17-23, 1918: Cases, 186:
Bohol. Capiz. Cebu Misamis. Occidental Negros. Surigao Zamboanga.	do	71 9 12 34 34 6 20	55 8 7 16 20 4 15	deaths, 125.

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

From the interior, 7.

^{*} From the interior, 25.

Reports Received During Week Ended May 10, 1918—Continued.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.	
Ceylon: Colombo	Jan. 20-Feb. 16	13	12		
Nanking Ecuador:	Mar. 17-23		15		
Duran Guayaquil	Mar. 16–30do,	1 17	7		
Hawaii: Laupahoehoe	May 5	1	. 1		_
IndiaBassein	Feb. 3–16		37	Jan. 27-Feb. 16, 1918. 116,066; deaths, 93,199.	Cases
BombayCalcutta	Jan. 27–Feb. 16 Jan. 27–Feb. 2	71	53		
Henzada	Feb. 3–16 Jan. 27–Feb. 23	20	32 14		
Madras	Feb. 10–16do	1,832	1,510		
Myingyan Pegu	Feb. 3–10 Feb. 10–16		51 _1		
RangoonToungoo	do Feb. 3-16	78	75 21		
Cochin-China— Saigon	Mar. 4–10	17	13		•

SMALLPOX.

			1	
Canada:		J	I	
New Brunswick—		I	1	1
Moncton	Apr. 14-20	. 3	1	1
St. John	Apr. 21-27	4		1
Nova Scotia—	Apr. 21-21	1 -		1
Halifax	Apr. 14-20	3	1	
China:	Apr. 14-20	1 3		
Changsha	Mar. 2-8	6	1	i
Dairen	Mar. 17-30	23		
	Feb. 24-Mar. 9		3	l
Hongkong		4	2	.
Nanking	Mar. 17-23			Present.
Tientsin	Mar. 10-16	10		
Ecuador:		1 .	ľ	* * .
Guayaquil	Mar. 16-31	1		
Great Britain:		l	l	
Hull	Mar. 24-30	2		
India:	•	İ		
Bombay	Jan. 27-Feb. 2	320	129	
Calcutta	do		3	
Karachi	Jan. 27-Feb. 23	24	12	
Madras	Feb. 10-23	20	10	
Rangoon	Feb. 10-16	7	ĭ	
Indo-China:			-	
Cochin-China-		ł	1	
Saigon	Mar. 4-10	108	33	
Italy:		1		·
Genoa	Mar. 25-31	2	1	
Mexico:	Mai. 20 01			
Guadalajara	Mar. 1-31	21		
Philippine Islands:	Mai. 1-01	* **	,	
Manila	Mar. 17-23	15	1	Varioloid, 21.
Portugal:	mai. 17-20	19	,	varioloid, 21.
Lisbon	Mar. 17-30	11		
Spain:	mar. 17-30	11	• • • • • • • • • • • •	
Madrid	Fab. 1.00			
Malaga	Feb. 1-28	• • • • • • • •	. 3	
Tunisia:	Oct. 1-31		19	
Tunisia:	35 10 00	' - 1		
Tunis	Mar. 16-22	1 }	• • • • • • • • • • • • • • • • • • • •	
		l	1	

Reports Received During Week Ended May 10, 1918—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain: Glasgow Mexico: Aguascalientes. Guadalajara Portugal: Lisbon Tunisia: Tunis.	Mar. 31-Apr. 13 Apr. 15-21 Mar. 1-31 Mar. 17-30 Mar. 23-29	3 6 10 2	3	Mar. 11, 1918: Epidemic in regions of Tala and Tozer.
	YELLOW	FEVE	₹.	
Ecuador: Guayaquil	Mar. 16–31	11	6	

Reports Received from Dec. 29, 1917, to May 3, 1918.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
AntungIndia:	Nov. 26-Dec. 2	3	1	
Bombay	Oct. 28-Dec. 15	19	14	
Do Calcutta	Dec. 30-Jan. 26 Sept. 16-Dec. 15	200	170 135	
Do	Dec. 30-Jan. 26		24	
Karachi	do	25	6	
Madras	Nov. 25-Dec. 22 Dec. 30-Feb. 9	2 37	19	
Do Rangoon	Nov. 4-Dec. 22	5	19	
Do	Dec. 30-Feb. 2	ž	ľ	
Indo-China:				
Provinces	0-4 1 7 00			Sept. 1-Nov. 30, 1917: Cases, 152;
AnamCambodia	Sept. 1-Nov. 30	18 72	13 52	deaths, 89.
Cochin-China	do	50	22	
Saigon	Nov. 22-Dec. 9	4	3 3	
Do	Feb. 4-Mar. 11	7	3	
Java: Kwang-Chow-Wan	Sept. 1-30	10	2	
East Java	Oct. 28-Nov. 3	1	1	
West Java				Oct. 19-Dec. 27, 1917: Cases, 102;
Batavia	Oct. 19-Dec. 27	49	23	deaths, 56. Dec. 28, 1917-Jan.
Do Persia:	Dec. 28-Jan. 31	24	1	31, 1918: Cases, 27; deaths, 7.
Mazanderan Province				July 30-Sept. 3, 1917; Cases, 384;
Achraf	July 30-Aug. 16	90	88	deaths, 276.
Astrabad	July 31			Present.
Barfrush Chahmirzad	July 1-Aug. 16	39	25	25 cases reported July 31, 1917.
Chahrastagh	June 15-July 25	10	8	25 cases reported July 31, 1917.
Charoud	Aug. 26-Sept. 3	4	2	
Damghan	Aug. 26			Present.
Kharek Meched	May 28-June 11 Aug. 18-Sept. 2	21 174	13 82	
Ouzoun Dare	Aug. 8.			Do.
Sabzevar	Aug. 24			Do.
Sari	July 3-29	273	144	
Semman Yekchambe Bazar	Aug. 31-Sept. 2 June 3	14	5	
Philippine Islands:	vano 0			• • *
Provinces				Nov. 18- Dec. 29, 1917: Cases,
Antique Do	Nov. 18-Dec. 1	48	32	1,053; deaths, 693. Dec. 30,
Bohol	Feb. 3-9 Nov. 18-Dec. 29	4 169	111	1917-Mar. 16, 1918: Cases, 1,424; deaths, 925.
Do	Dec. 30-Mar. 16	421	336	4000113, 020.
Capiz	Nov. 25-Dec. 29	27	21	
Do	Dec. 30-Mar. 2	210	174	
Cebu Do	Dec. 23-29 Dec. 30-Mar. 9	3 83	45	
D.V	- ωα. υυ-μιαι. υι	00	40	•

Reports Received from Dec. 29, 1917, to May 3, 1918—Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Contd. Frovinces—Continued. Davao	Mar. 10-16	10 179 97 13 50 337 351 72 177	8 135 63 12	
BangkokTurkey in Asia:	Sept. 16-22	1	1	
Bagdad	Nov. 1-15		40	
	PLA	GUE.		
Brazil: Bahis Do Rio de Janeiro Do British East Africa;	Nov. 4-Dec. 15 Dec. 30-Feb. 23 Dec. 23-29 Jan. 6-12	4 4 1 1	4 3	
Mombasa British Gold Coast:	Oct. 1-Dec. 31	31	18	
AximCeylon:	Jan. 8 Oct. 14-Dec. 1	14	13	Present.
China. Anhwei Province— Fengyanghsien Pengpu	Dec. 30-Jan. 19	7 	5 9 1	Present in North China in January, 1918; pneumonic form. Pneumonic. Do.
Kalgan Kalgan Kiangsu Province— Nanking	Mar. 18			Vicinity. Present in February, 1918. Present.
Shansi Province Ecuador: Babahoyo	Feb. 1-15.	1		Present in February, 1918; 116 cases estimated.
Duran	do	1 68 44 20	1 24 18 7	Reported outbreak occurring about Jan. 17, 1918.
Egypt. Alexandria. Port Said.	Jan. 14-28 July 23-29	1 1	· 2	Jan. 1-Nov. 15, 1917: Cases, 728; deaths, 398.
India. Bassein. Do. Bombay Do. Calcutta. Do.	Dec. 9-29	147 81	8 37 123 59 2 3	Sept. 16-Dec. 29, 1917: Cases, 228,834; deaths, 174,743. Dec. 30, 1917-Jan. 26, 1918: Cases, 123,934; deaths, 98,950.
Do. Henzada Do. Karachi Do. Madras Madras Presidency	Jan. 5-Feb. 2. Oct. 21-Dec. 29 Dec. 30-Jan. 26. Feb. 3-9.	27 16 2 5,786	1 25 20 14 1	• •
Mandalay	Oct. 31-Nov. 24 Jan. 6-Feb. 9 Oct. 14-Nov. 17	8,599	4,519 6,599 89	14
Do	Dec. 30-Feb. 2doJan. 5-12Oct. 21-Dec. 22Dec. 30-Feb. 9Dec. 9-29Dec. 30-Jan. 19	188	627 235 1 56 176 5	·

Reports Received from Dec. 29, 1917, to May 3, 1918—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Provinces				Sept. 1-Nov. 30, 1917; Cases, 8
Anam.	Sept. 1-Nov. 30	28	25 28 15	Sept. 1-Nov. 30, 1917: Cases, 8 deaths, 68.
Cambodia	do	28 39 22	28	
Cochin-China	. do	22	15	1
Saigon	Oct. 31-Dec. 23	17	1 6	1
Do	Dec. 31-Mar. 17	98	47	
Java:		1	1	
East Java				Oct. 8-Dec. 31, 1917: Cases, 19 deaths, 193. Jan. 1-14, 1918: Cases, 22; death
Do Residences—				Jan. 1-14, 1918: Cases, 22; death
Kediri	Oct. 8-Dec. 31	1	1	
Madioen	oo	49	49	
Samarang Surabaya	do	110	109	
Surabaya	do	25	23	
Surakarta	do	l ii	23 11	1
West Java	1	I	l	Nov. 25-Dec. 9, 1917; Cases, 4
	1		1	deaths, 45. Dec. 1, 1917-Jan
Peru:	·	l	1	Nov. 25-Dec. 9, 1917: Cases, 4 deaths, 45. Dec. 1, 1917-Jan 15, 1918: Cases, 106.
Ancachs Department—	Dec 1 7 15	١.	ļ	
Casma	Dec. 1-Jan. 15	2		
Lambayeque Department	ao	22		At Chiclayo, Ferrenafe, Jayanca
	1 -		1	Lambayeque.
Libertad Department	do	72		At Guadalupe, Mansiche, Paca
	1	i	Į	mayo, Salaverry, San Jose, Sa
	i	ł	į	Pedro, and country district of Trujillo.
	ł <u> </u>		I	Trujillo.
Lima Department	do	9		City and country.
Piura Department—		1	1	1 -
Catacaos	do	1		!
Senegal:		'	ł	<u> </u>
St. Louis	Feb. 2			Present.
Siam:	1	1	1	l .
Bangkok	Sept. 16-Dec. 23	13	9	
Ъо	Jan. 13-Mar. 2	24	16	
Straits Settlements:	1			· ·
Straits Settlements: Singapore	Oct. 28-Dec. 29	. 5	7	•
Straits Settlements: Singapore Do	1			
Straits Settlements: Singapore	Oct. 28-Dec. 29 Jan. 6-Feb. 16	. 5	7	
Straits Settlements: Singapore Do	Oct. 28-Dec. 29 Jan. 6-Feb. 16	5 29	7	
Straits Settlements: Singapore	Oct. 28-Dec. 29 Jan. 6-Feb. 16	5 29 LPOX.	7 28	
Straits Settlements: Singapore Do	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31	5 29 LPOX.	7	
Straits Settlements: Singapore Do	Oct. 28-Dec. 29 Jan. 6-Feb. 16	5 29 LPOX.	7 28	
Algeria: Algeria: Do	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31	5 29 LPOX.	7 28	
Straits Settlements: Singapore. Do. Algeria: Algiers. Do. Australia: New South Wales.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23	5 29 LPOX. 3 213	7 28	July 12-Dec. 20, 1917: cases, 3
Algeria: Algeria: Do Australia: New South Wales Abermain.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29	5 29 LPOX. 3 213	7 28	July 12-Dec. 20, 1917: cases, 34 Jan. 4-17, 1918; case, 1.
Algeria: Algeria: Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11	5 29 LPOX. 3 213	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11	3 213	7 28	July 12-Dec. 20, 1917: cases, 34 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algiers Do Australia: New South Wales Abermain Cessnock Eumangla Kurri Kurri.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20.	29 LPOX. 3 213	7 28	July 12-Dec. 20, 1917: cases, 30 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20.	3 213 3 7 1 2 1	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algeria: Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri. Mungindi. Warren.	Oct. 28-Dec. 29	3 213 3 7 1 2 1 22	7 28	July 12-Dec. 20, 1917: cases, 34 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers Do. Australia: New South Wales Abermain. Cessnock Eumangis Kurri Kurri Mungindi Warten Do.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20.	3 213 3 7 1 2 1	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangia. Kurri Kurri. Mungindi Warren. Do.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17	3 213 3 7 1 2 1 22 1	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri Mungindi Warren Do. Bahis.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 July 12-Oct. 25 July 12-Oct. 28	3 213 3 7 1 2 1 22	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangis. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12- Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15	3 213 213 3 7 1 22 1 22 1 3 1	7 28	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangis. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12- Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15	3 213 3 7 1 2 1 22 1	7 28	July 12-Dec. 20, 1917: cases, 3(Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algers Do. Australia: New South Wales Abermain. Cessnock Eumangla. Kurri Kurri. Murgindi. Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12- Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15	3 213 213 3 7 1 22 1 22 1 3 1	2 2 190 83	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers. Do. Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangia. Kurri Kurri. Mungindi Warren. Do. Brazil: Bahia. Pernambuco.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12- Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15	3 213 3 7 1 1 2 1 2 1 3 1 703	2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algiers. Do. Algeria: Algiers. Do. Abermain. Cessnock Eumangis. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa:	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 July 12-Oct. 25 July 12-Oct. 28	3 213 3 213 3 7 1 22 1 22 1 7 03 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Do. Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangis. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa:	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12- Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15	3 213 3 7 1 1 2 1 2 1 3 1 703	2 2 190 83	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurni Murri Murri Murri Bahia. Pennambuco. Rio de Janeiro. Do. Sao Paulo. Striish East Africa: Mombasa.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 July 12-Oct. 25 Jan. 1-17. Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 29-Nov. 4	3 213 3 213 3 7 1 22 1 22 1 7 03 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3(Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri. Murrigudi. Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sitish East Africa: Mombasa. Anada: British Columbia—	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31	29 LPOX. 3 213 3 7 1 22 1 22 1 703 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algiers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri. Murrigudi. Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sitish East Africa: Mombasa. Anada: British Columbia—	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31	29 LPOX. 3 213 3 7 1 1 2 2 1 1 703 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3(Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algiers Do. Australia: New South Wales. Abermain Cessnock Eumangla. Kurri Kurri Mungindi Warren Do. Braili: Bahia. Pernambuco. Rio de Janeiro. Do. Stao Paulo. Striish East Africa: Mombasa. Canada: British Columbia— Vancouver	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31	29 LPOX. 3 213 3 7 1 22 1 22 1 703 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri Mungindi Warren. Do. Brazii: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31	29 LPOX. 3 213 3 7 1 1 2 2 1 1 703 231	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918; case, 1. Newcastle district.
Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria. Winnioeg	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 July 12-Oct. 25 Jan. 1-17. Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 29-Nov. 4	3 213 213 3 77 1 1 2 2 2 1 1 2 2 2 1 1 703 231 9	2 2 190 83 2	July 12-Dec. 20, 1917: cases, 3 Jan. 4-17, 1918: case, 1. Newcastle district.
Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria. Winnioeg	Oct. 28-Dec. 29. Jan. 6-Feb. 16. SMAI Nov. 1-Dec. 31. Jan. 1-Apr. 23. Oct. 25-Nov. 29. July 12-Oct. 11. Aug. 15. Dec. 5-20. Aug. 13. July 12-Oct. 25. Jan. 1-17. Nov. 10-Dec. 8. Nov. 1-15. Sept. 30-Dec. 29. Dec. 30-Mar. 9. Oct. 29-Nov. 4. Oct. 1-Dec. 31. Jan. 13-Mar. 9. Jan. 7-Feb. 2. Dec. 30-Apr. 13.	3 213 213 3 77 1 1 2 2 2 1 1 2 2 2 1 1 703 231 9	2 2 190 83 2	Newcastle district.
Algeria: Algeria: Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri Mungindi Warren. Do. Brazii: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria.	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 10-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31	29 LPOX. 3 213 3 7 1 2 1 1 703 231	2 2 190 83 2	Outbreak. On main line Cana
Algeria: Algeria: Algers. Do. Australia: New South Wales. Abermain. Cessnock Eumangla. Kurri Kurri. Mungindi. Warren. Do. Brizil: Bahia. Pernambuco. Rio de Janeiro. Do. Sto Paulo. Stritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria. Winnineg	Oct. 28-Dec. 29. Jan. 6-Feb. 16. SMAI Nov. 1-Dec. 31. Jan. 1-Apr. 23. Oct. 25-Nov. 29. July 12-Oct. 11. Aug. 15. Dec. 5-20. Aug. 13. July 12-Oct. 25. Jan. 1-17. Nov. 10-Dec. 8. Nov. 1-15. Sept. 30-Dec. 29. Dec. 30-Mar. 9. Oct. 29-Nov. 4. Oct. 1-Dec. 31. Jan. 13-Mar. 9. Jan. 7-Feb. 2. Dec. 30-Apr. 13.	3 213 213 3 77 1 1 2 2 2 1 1 2 2 2 1 1 703 231 9	2 2 190 83 2	Outbreak. On main line Cana
Algeria: Singapore. Do. Algeria: Alciers. Do. Australia: New South Wales. Abermain. Cessnock Eumangia. Kurri Kurri Mungindi Warren. Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. Sritish East Africa: Mombasa. Canada: British Columbia— Vancouver. Victoria. Winnipeg. New Brunswick— Kent County	Oct. 28-Dec. 29. Jan. 6-Feb. 16. SMAI Nov. 1-Dec. 31. Jan. 1-Apr. 23. Oct. 25-Nov. 29. July 12-Oct. 11. Aug. 15. Dec. 5-20. Aug. 13. July 12- Oct. 25. Jan. 1-17. Nov. 10-Dec. 8. Nov. 1-15. Sept. 30-Dec. 29. Oct. 29-Nov. 4. Oct. 1-Dec. 31. Jan. 13-Mar. 9. Jan. 13-Mar. 9. Jan. 7-Feb. 2. Dec. 30-Apr. 13. Dec. 4.	29 LPOX. 3 213 3 7 1 2 1 1 703 231	2 2 190 83 2	Outbreak. On main line Cana dian Ry., 25 miles north o Moncton.
Algeria: Algeria: Algeria: Algeria: Do. Australia: New South Wales Abermain Cessnock Eumangla. Kurri Kurri Mungindi Warren Do. Brazil: Bahia. Pernambuco. Rio de Janeiro. Do. Sao Paulo. British East Africa: Mombasa. Canada: British Columbia— Vancouver Victoria. Winnipeg	Oct. 28-Dec. 29 Jan. 6-Feb. 16 SMAI Nov. 1-Dec. 31 Jan. 1-Apr. 23 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 10-Dec. 8 Nov. 1-15. Sept. 30-Dec. 29 Dec. 30-Mar. 9 Oct. 1-Dec. 31 Jan. 13-Mar. 9 Jan. 7-Feb. 2 Dec. 30-Apr. 13 Dec. 4 Jan. 22	29 LPOX. 3 213 3 7 1 22 1 22 1 703 231 9	2 2 190 83 2	Outbreak. On main line Cana

Reports Received from Dec. 29, 1917, to May 3, 1918—Continued.

SMALLPOX-Continued.

Do. Dec. 31-Mar. 10. 36 106 Do.	Place.	Date.	Cases.	Deaths.	Remarks.
New Brunswick—Contd. St. John County	Canada—Continued.				
St. John. Jan. 22 Jan. Jan. 22 Jan. Jan. 22 Jan. Jan. 22 Jan. Jan. 23 Jan. Jan. 24 Jan. 25 Jan. 25 Jan. 25 Jan. 26 Jan. 26 Jan. 27	New Brunswick—Contd.		1	1	1
Victoria County Mancton Jan. 22	St. John County—	Mor 2 Ane 6		1	
Westmoreland County Moneton Jan. 23-Apr. 6. 16	Victoria County	Jan. 22	ı n		At Limestone and a lumber
Moncton Jan. 29-Apr. 6 16 8 Nova Scotia Haifax Feb. 24-Apr. 6 16 Sydney Feb. 3-Apr. 6 15 15 Do. Ontario Mar. 31-Apr. 6 15 Do. Jan. 13-Apr. 6 1 Do. Jan. 14-Apr. 6 2 Do. Jan. 14-Apr. 6 2 Do. Jan. 15-Apr. 6 1 Do. Jan. 15-Apr.	Westmoreland County-	4	1	1	camp.
York Column	Moncton	Jan. 29-Apr. 6			
Halifax	Y ork County	Jan. 22	8		4
Sydney	NOVE SCOUR-	Feb 24-Apr 6	6	j	1
Ontario	Sydney	Feb. 3-Apr. 6			
Arnprior	Ontario—	1 -	_	1	
Do. Jan. 13-19 2 5 5 1 1 1 1 1 1 1 1	Arnprior	Mar. 31-Apr. 6	ļ <u>.</u> .	1	·
Ottawa Mar 4-24 5 5 1 1 1 1 1 1 1 1	Hamilton	Dec. 16-22			· ·
Do. Jan. 6-Mar. 30. 32 Protection Toronto. Feb. 10-Apr. 6. 2 Prince Edward Island Dec. 30-Jan. 5. 1 Dec. 30-Jan. 7. Feb. 17. 6 2 Jan. 7-Feb. 17. 7 Jan. 3. 1 Jan. 32-Jan. 3. 3 Jan. 32-Jan. 3.	Ottowo		5		`
Do. Jan. 6-Mar. 30. 32		Dec. 9-15	ĭ		
Toronto. Feb. 10-Apr. 6 2 1	Do	Jan. 6-Mar. 30			,
Prince Edward Island	Toronto	Feb. 10-Apr. 6			·
Charlottetown Peb. 7-13. 1 1 1 1 1 1 1 1 1	Windsor	Dec. 30-Jan. 5	1		
Quebec	Prince Edward Island—	Tab 7 10		1	
Montreal Dec. 16-Jan. 5. 5 12		Feb. 7-13	1		
Do	Montreel	Dec 16-Ian 5	5	1	
China:	Do				
Do. Dec. 31-Feb. 10					·
Antung. Dec. 2-23. 13 2 2 12 15 16 16 16 16 16 16 16	Amov	Oct. 22-Dec. 30			
Do. Jan. 2-Feb. 17. 6 2 2 2 2 2 2 2 2 2	Do	Dec. 31-Feb. 10			Do.
Chungking	Antung	Dec. 2-23		2	
Chungking	Changaba	Jan. 7-reo. 17			
Chungking	Chefoo	Jan 27-Feb 9		-	Do
Do. Dec. 30-Feb. 16 Do. Do. Nov. 18-Dec. 22 3 1 Do. Dec. 30-Mar. 16 39 2 Hankow Feb. 25-Mar. 3 1 Harbin May 14-June 30 20 Do. Do. July 1-Dec. 2 7 Do. Do. Do. July 1-Dec. 2 7 Do.	Chungking	Nov. 11-Dec. 29			Do.
Harbin	Do	Dec 30-Feb. 16			Do.
Harbin	Dairen	Nov. 18-Dec. 22			
Harbin		Dec. 30-Mar. 16		2	
Dec. July 1-Dec. 2	Hankow				Chinasa Fastern Dy
Nanking		Inly 1-Dec. 2			
Nanking	Hongkong	Dec. 23-29	i		
Nanking	Do	Jan. 26-Feb. 9		1	_
Nanking	Hungtahotze Station	Oct. 28-Nov. 4			
Nanking	Manchura Station	May 14-June 30		• • • • • • • • • • • • • • • • • • • •	νο.
Nanking		Nov 11-94	3 1		
Do. Dec. 31-Mar. 10 36 196 Do. Do. Jan. 18 Do. Do. Dec. 30-Mar. 9 Z7 Z7 Z8 Z8 Z8 Z8 Z8 Z8		Feb. 3-Mar. 16			
Do. Dec. 31-Mar. 10 36 196 Do. Do. Jan. 18 Do. Do. Dec. 30-Mar. 9 Z7 Z7 Z8 Z8 Z8 Z8 Z8 Z8	Shanghai	Nov. 18-Dec. 23	41	91	Cases, foreign; deaths among
Swatow	-	_			
Tientsiu Nov. 11-Dec. 22 13 Do Dec. 30-Mar. 9. 27 Tsingtau Feb. 4-Mar. 23 8 Cuba: Habana Jan. 7. 1 Nov. 8, 1917: 1 case from Cort Marianao Jan. 8. 1 Ecuador: Guayaquil Sept. 1-Nov. 30 26 2 Do Feb. 1-15. 3 3 Egypt: Alexandria Nov. 12-18. 2 1 Do Jan. 8-Feb. 28. 5 Cairo July 23-Nov. 18 6 1 France: Lyon Nov. 18-Dec. 16 6 3 Do Jan. 7-Feb. 17. 11 2 Marseille Jan. 1-31 2 Paris Jan. 27-Mar. 9. 8 3 Great Britain: Cardiff Feb. 3-9. 4 Hull Mar. 17-23 1 Greece: Saloniki Jan. 27-Mar. 16. 9 Honduras:	Do	Dec. 31-Mar. 10	36	196	
Do.		Jan. 18			Unusually prevalent.
Tsingtau Feb. 4-Mar. 23 8	Do	Dec 30-Mar 0			
Cuba: Habana Jan. 7. Marianao Ecuador: Guayaquil Bept. 1-Nov. 30 Feb. 1-15. Alexandria Do. Jan. 8-Feb. 28 Cairo. July 23-Nov. 18 Do. Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 8-Feb. 17 Jan. 1-31 Paris. Great Britain: Cardiff. Hull Greece: Hull Greece: Baloniki Honduras: Jan. 2-Mar. 16. Jan. 2-Mar. 16. Jan. 2-Mar. 16. Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 1-23 Jan. 2-Mar. 16. Jan. 2-Mar. 17-Mar. 18. Jan. 2-Mar. 18-Mar. 17-Mar. 18-Mar. Tsingtau	Feb. 4-Mar. 23				
Marianao Jan. 8 1 Dec. 5, 1917, 1 case, 6 miles distant from Habana. Ecuador: Guayaquil Sept. 1-Nov. 30 26 2 Do Feb. 1-15 3 3 Egypt: Nov. 12-18 2 1 Alexandria Nov. 12-18 2 1 Do Jan. 8-Feb. 28 5 5 Cairo July 23-Nov. 18 6 1 France: Lyon Nov. 18-Dec. 16 6 3 Do Jan. 7-Feb. 17 11 2 Paris Jan. 1-31 2 2 Paris Jan. 27-Mar. 9 8 2 Tead Britain: Cardiff Feb. 3-9 4 Hull Mar. 17-23 1 Incecce: Saloniki Jan. 27-Mar. 16 9 Honduras: Jan. 27-Mar. 16 9	Cuba:		_		
Marianao	Habana	Jan. 7	1		Nov. 8, 1917: 1 case from Coruna;
Ecuador: Guayaquil Sept. 1-Nov. 30 26 2 Do Feb. 1-15 3 3 Alexandria Nov. 12-18 2 1 Do Jan. 8-Feb. 28 5 5 Cairo July 23-Nov. 18 6 1 France: Lyon Nov. 18-Dec. 16 6 3 Do Jan. 7-Feb. 17 11 2 Paris Jan. 1-31 2 2 Great Britain: Cardiff Feb. 3-9 4 4 Hull Mar. 17-23 1 1 3 Greece: Saloniki Jan. 27-Mar. 16 9 9 Honduras: Jan. 27-Mar. 16 9 9	Maniana	T 0	_	- 1	Dec. 5, 1917, 1 case.
Guayaquil Sept. 1-Nov. 30. 26 2 Do. Feb. 1-15. 3 3 Egypt: Nov. 12-18. 2 1 Do. Jan. 8-Feb. 28. 5 6 1 Cairo. July 23-Nov. 18. 6 1 France: Lyon. Nov. 18-Dec. 16. 6 3 Do. Jan. 7-Feb. 17. 11 2 Marseille. Jan. 1-31. 2 2 Paris. Jan. 27-Mar. 9. 8 2 Great Britain: Cardiff. Feb. 3-9. 4 Hull. Mar. 17-23. 1 Greece: Saloniki. Jan. 27-Mar. 16. 9 Honduras: Jan. 27-Mar. 16. 9	Marianao	Jan. 8	1		6 miles distant from Habana.
Egypt: Alexandria. Do. Jan. 8-Feb. 28. Cairo. July 23-Nov. 18. France: Lyon. Do. Jan. 7-Feb. 17. Marseille Jan. 1-31 Paris. Jan. 27-Mar. 16. Greece: Saloniki. Jon. 27-Mar. 16. Jon. 28-Mar. 17-Mar. 18- Jon. 27-Mar. 18- Jon. 28-	Sept 1-Nov 30	26	9		
Egypt: Alexandria. Do. Jan. 8-Feb. 28. Cairo. July 23-Nov. 18. France: Lyon. Do. Jan. 7-Feb. 17. Marseille Jan. 1-31 Paris. Jan. 27-Mar. 16. Greece: Saloniki. Jon. 27-Mar. 16. Jon. 28-Mar. 17-Mar. 18- Jon. 27-Mar. 18- Jon. 28- Do.	Feb. 1-15				
Do. Jan. 8-Feb. 28. 5 Cairo. July 23-Nov. 18. 6 1	Egypt:	1	- 1	- 1	
Cairo. July 23-Nov. 18. 6 France: Lyon. Nov. 18-Dec. 16. 6 Do. Jan. 7-Feb. 17. 11 2 Marseille Jan. 1-31 2 Paris. Jan. 27-Mar. 9. 8 3 Great Britain: Cardiff Feb. 3-9. 4 Cardiff Feb. 3-9. 4 Hull Mar. 17-22. 1 Greece: Saloniki. Jan. 27-Mar. 16. 9 Honduras: Jan. 27-Mar. 16. 9		Nov. 12-18		1]	
France: Lyon	Coiro				
Lyon. Nov. 18-Dec. 16 6 3 Do. Jan. 7-Feb. 17. 11 2 Marseille. Jan. 1-31 2 Paris. Jan. 27-Mar. 9 8 3 Great Britain: Cardiff Feb. 3-9 4 Hull Mar. 17-23 1 Greece: Jan. 27-Mar. 16. 9 Honduras: 9		July 25-100v. 18	0	- 1	
Do. Jan. 7-Feb. 17. 11 2 Marseille Jan. 1-31 2 Paris. Jan. 27-Mar. 9. 8 2 Great Britain: Cardiff Feb. 3-9. 4 Hull Mar. 17-23. 1 Greece: Saloniki. Jan. 27-Mar. 16. 9 Honduras: 9		Nov. 18-Dec. 16	6	3	
Marseille Jan. 1-31 2 Paris Jan. 27-Mar. 9 8 Great Britain: Cardiff Feb. 3-9 4 Hull Mar. 17-23 1 Greece: Saloniki Jan. 27-Mar. 16 9 Honduras: 9	Do	Jan. 7-Feb. 17		2	·
Great Britain: Cardiff Feb. 3-9	Marseille	Jan. 1-31		2	4
Cardiff Feb. 3-9	Paris	Jan. 27-Mar. 9	8	2	
Hull Mar. 17-23 1 Greece: Saloniki Jan. 27-Mar. 16. 9 Honduras:		Fob 20		1	
Greéce: Saloniki		Mar 17-22			44 A 25 A 25
Saloniki		mai. 1/-20	* -		**
Honduras:	Saloniki	Jan. 27-Mar. 16		9	
Santa Rarbara Department I Tan 1_7 I I Present in intental	Honduras:	1		1	
some not not a nother timem . Agit: 1_1***********************************	Santa Barbara Department	Jan. 1-7		1	Present in interior.

Reperts Received from Dec. 29, 1917, to May 3, 1918—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay	Oct. 21-Dec. 29	. 50	12	1 .
Do Karachi Madras	Dec. 31-Jan. 26	. 26	5	l
Karachi	Nov. 18-Dec. 29	. 4	2	Nov. 11-16, 1917: 10 cases with 4
Madras	Oct. 31-Dec. 29	. 20	8	deaths; imported on s. s. Me
1)0	Nov. 18-Dec. 29 Oct. 31-Dec. 29 Dec. 30-Feb. 9 Oct. 28-Dec. 22	102	38	nesa from Basreh.
Rangoon	Oct. 28-Dec. 22	. 6	1	
_ , _ po	Dec. 30-Feb. 9	. 35	6	1
Indo-China:		1	-	Come 1 Mar 20 1017 Come 540
Provinces	Sept. 1-Nov. 30	163	25	Sept. 1-Nov. 30, 1917: Cases, 546;
AnamCambodia	do	16	8	deaths, 146.
Cochin-China	do	353	108	1
Saigon	Oct. 20-Dec 30	120	26	!
Do	Oct. 20-Dec. 30 Dec. 31-Mar. 17	687	240	
Laos	OCE. 1-31	i		
Do	Jan. 26-Feb. 3 Sept. 1-Oct. 31 Jan. 26-Feb. 3	1	1	
Tonkin	Sept. 1-Oct. 31	9	4	1
Do	Jan. 26-Feb. 3	3		
taly:		i	İ	
Castellamare	Dec. 10	2		Among refugees.
Florence	Dec. 1-15	17	4	
Genoa	Dec. 2-31	11	3	·
Do	Dec. 2-31. Jan. 2-Mar. 15. Jan. 7-Mar. 10	41	5	*
Leghorn	Jan. 7-Mar. 10	32	7	
Messina	Jan. 3-19	1		0.4 4 D 04 4048 G 00
Milan				Oct. 1-Dec. 31, 1917: Cases, 32.
Naples	Dec. 10	2 6		Among refugees.
TaorminaTurin	Oct 20 Dec 20	123	120	
Do	Jan. 20-Feb. 9 Oct. 29-Dec. 29 Jan. 21-Mar. 3	56	3	
apan:	Jan. 21-mar. 3	30	°	
Nagasaki	Jan. 14-Mar. 31	9	3	
Taihoku	Dec. 15-21	l i	l "	Island of Taiwan (Formosa).
Do	Jan. 8-Mar. 11	25	5	Do.
Tokyo	Feb. 11-Mar. 6	26		City and suburbs.
Tokyo Yokohama.	Jan. 17-Feb. 3	4		
ava:		-		
East Java	Oct. 7-Dec. 23	50		Dec. 25-31, 1917: Cases, 7. Jan.
Surabaya	Dec. 25-31	1		Dec. 25-31, 1917: Cases, 7. Jan. 1-14, 1918: Cases, 3.
Mid-Java				Oct. 10-Dec. 26, 1917: Cases, 86; death, 1. Dec. 28, 1917-Jan. 23
Samarang	Nov. 6-Dec. 12	4	1	death, 1. Dec. 28, 1917-Jan. 23
-			1	1918: Cases, 23.
West Java				1918: Cases, 23. Oct. 19-Dec. 27, 1917: Cases, 231; deaths, 36. Dec. 28, 1917-Jan. 31, 1918. Cases, 116; deaths, 17.
Batavia	Nov. 2-8	1		deaths, 36. Dec. 28, 1917-Jan.
				31, 1918. Cases, 116; deaths, 17.
Mexico:	77.4.7			
Aguascalientes	Feb. 4-17		2	
Ciudad Juarez	Mar. 3-23	2	1	
Mazatlan	Dec. 5-11	••••••	1	
Do	Jan. 29-Apr. 2 Nov. 11-Dec. 29 Dec. 30-Mar. 30	. 4	4	
Mexico City	Nov. 11-Dec. 29	16 90		
Do	Jan. 11	200	•••••	
Piedras Negras Vera Cruz	Jan. 20-Mar. 2	200	3	
Newfoundland:	Jan. 20-mai. 2	• 1	"	
St. Johns	Dec. 8-Jan. 4	29	· •	
Do	Jan. 5-Apr. 12	76		
Transcov	Jan. 4			Outbreak with 11 cases reported.
TrepasseyPhilippine Islands:	1			
Manila	Oct. 28-Dec. 8	5		
Do	Feb. 3-Mar. 16	12	3	Varioloid, 78.
Porto Rico:			- 1	
San Juan	Jan. 28-Apr. 7	37		Of these, 36 varioloid.
ortugal:	-	- 1	- 1	•
Lisbon	Nov. 4-Dec. 15	2		
Do	Dec. 30-Mar. 16	6		
ortuguese East Africa:				- J
Lourenço Marques	Aug. 1-Dec. 31		16	•
lussia:	- I	اہ	i	
Archangel	Sept. 1-Oct. 31	7		
Móscow	Aug. 26-Oct. 6 Aug. 31-Nov. 18	22	2	
Petrograd	Aug. 31-Nov. 18	76	3	
iam:	Nom of Date		١,	
Bangkok	Nov. 25-Dec. 1	,1	1 6	
Do	Jan. 6-Mar. 2	15 l	01	

Reports Received from Dec. 29, 1917, to May 3, 1918—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Spain:				
Coruna	Dec. 2-15		- 4	
Do	Jan. 20-Feb. 23	1	. 5	Jan. 1-Dec. 31, 1917: Deaths, 77
Seville	Oct. 1-Dec. 30	1	66	Jan. 1-Dec. 31, 1917. Deaths, 77
Do	Ion 1_31		. 20	
Valencia	Jan. 27-Feb. 2	. 1		
Straits Settlements:	Nov. 25-Dec. 1	. 1	1	j
Singapore	Dec. 30-Jan. 5	l i	1	}
Tunisia:	1	1		
Tunis	Dec. 14-20	. 1		
Turkey in Asia:		i .	1	Dramant in Nament on 1018
Bagdad				Present in November, 1917.
Cape of Good Hope State	Oct. 1-Dec. 31	. 28	1	
Cape of Good Hope State East Liverpool	Jan. 20-26	1		Varioloid.
Venezuela:				
Maracaibo	Dec. 2-8	·····	1	
	TYPHU	S FEVE	R.	
	<u> </u>	T	T	
Algeria:	Nov. 1 Dec. 21	2		
Algiers Argentina:	Nov. 1-Dec. 31	2	1	
Rosario	Dec. 1-31	1	1	the state of the s
Australia:		1	-	
South Australia				Nov. 11-17, 1917: Cases, 1.
Austria-Hungary: Hungary		Ì		Procent in December 1017
Brazil:				Present in December, 1917
Rio de Janeiro	Oct. 28-Dec. 1	7	1	
anada:		İ	1	* * · · · · · · · · · · · · · · · · · ·
Ontario—	Dec. 2-8	3		
KingstonQuebec—	Dec. 2-8	3		
Montreal	Dec. 16-22	2	1	
hina:				
Antung	Dec. 3-30	13	1	
Do	Dec. 31-Jan. 27	2	2	
Seoul	Nov. 1-20	1		
Do	Feb. 1-28	3	2	
Egypt:			-	
Alexandria	Nov. 8-Dec. 28	57	15	
Do Cairo	Jan. 8-Mar. 11	409	98 70	
Port Said	July 23-Dec. 16 July 30-Nov. 11	137 5	70 5	
rance:	vary 00-1101. 11	١	,	·
Marseille	Dec. 1-31		1	
ermany	· · · · · · · · · · · · · · · · · · ·			Jan. 1-30, 1918: Cases, 66.
reat Britain: Belfast	Feb. 10-Mar. 30	01		
Dublin	Mar. 24-30	21 3	3	
Glasgow	Dec. 21	ĭ		
Ďo	Jan. 20-Mar. 23	12		
Manchester	Dec. 2-8	1		
reece: Arta	Tob 10	ا ا	i	
Arta Ionine	Feb. 19	2		Tom 07 amidemia
Janina Saloniki	Feb. 14 Nov. 11-Dec. 29	110	72	Jan. 27, epidemic.
D0	Dec. 30-Mar. 16	• • • • • • • • • • • • • • • • • • • •	27	
aly:				* 1
San Remo	Mar. 10-16	2		
npan:	Non 00 Dec 10	_	_	** **
Nagasaki	Nov. 26-Dec. 16 Jan. 7-Mar. 31	5 14	5	er er
va:	July 1-Mar. 91	14	0	
Fast Iaxa				Oct. 15-Dec. 31, 1917- Pasce 20-
Surabaya	Dec. 17-31	9	i	deaths, 7. Jan. 1-14, 1918
Do	Jan. 1-14	10	î	Oct. 15-Dec. 31, 1917: Cases, 30; deaths, 7. Jan. 1-14, 1918: Cases, 11; deaths, 2.
	i i	ı	1	Oct 10-Dec 26 1017: Cores 62:
Mid-Java				Oct. 10-Dec. 20, 1811. Cases, 00,
Mid-Java. Samarang. Do.	Oct. 9-Dec. 26 Dec. 27-Jan. 15	20 18	2	Oct. 10-Dec. 26, 1917: Cases, 63; deaths, 2. Dec. 28, 1917-Jan. 23, 1918: Cases, 11.

Reports Received from Dec. 29, 1917, to May 3, 1918—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java—Continued. West Java				Oct. 19-Dec. 27, 1917; Cases 94.
Batavia Do	Oct. 19-Dec. 27 Dec. 28-Jan. 31	59 27	15 1	Oct. 19-Dec. 27, 1917: Cases, 94; deaths, 17. Dec. 28, 1917-Jan. 31, 1918; Cases, 53; deaths, 1. Dec. 30, 1917-Jan. 5, 1918: Cases,
Lithuania				Dec. 30, 1917-Jan. 5, 1918: Cases, 195.
Mexico: Aguascalientes Do	Dec. 15		3 14	
Durango State— Guanacevi Mexico City.	Feb. 11 Nov. 11-Dec. 29	476	 	Epidemic.
Do Newfoundland:	Dec. 30-Mar. 30	627		
St. Johns Norway:	Mar. 30-Apr. 5	1	1	
Bergen	Feb. 1-16	3		Dec. 23, 1917-Jan. 12, 1918: Cases,
Portugal:				3,026; deaths, 315.
LisbonOporto	Mar. 3-16 Dec. 1-31 Jan. 1-Mar. 8	8 23 1,811	4 161	Feb. 21: Present.
Russia: Archangel	Sept. 1-14	7	2	
Moscow Petrograd	Aug. 26-Oct. 6 Aug. 31-Nov. 18	49 32	2	
DoVladivostok	Feb. 2 Oct. 29-Nov. 4	12	1	Present.
Spain: Corcubion	Apr. 11			Present. Province of Coruna, west coast.
Sweden: Goteborg Switzerland:	Nov. 18-Dec. 15	2		
BaselZurich	Jan. 6–19 Nov. 9–15	1 2	1	
Do Tunisia: Tunis	Jan. 13-19 Nov. 30-Dec. 6	2	1	•
Do Union of South Africa:	Feb. 9-Mar. 15	35	5	Of these, 26 in outbreak in prison.
Cape of Good Hope State	Sept. 10-Dec. 30	4, 035	830	Sept. 10-Nov. 25, 1917: Cases, 3,724 (European, 31); deaths, 761 (European, 5). Total to Jan. 27, 1918: Cases, 4,248 (European, 32); deaths, 866 (European, 32);
Natal		•••••		pean, 5). From date of outbreak in December, 1917, to Jan. 27, 1918: Cases, 34; deaths, 10.
•	YELLOW	FEVE	R.	
Ecuador:	Dat. 1 15	,	1	
BabahoyoGuayaquilDo.	Feb. 1-15 Sept. 1-Nov. 30 Feb. 1-15	1 5 1	3	•
Do Milagro	Mar. 1-15 Feb. 1-15	î 1	1 1	
Yaguachi Guatemala: Retalhuleu	Nov. 1-30 Apr. 22	ì		Present. About 25 miles from
Honduras: Tegucigalpa	Dec. 16-22		1	Champerico, Pacific port.
Do	Jan. 6-19		1	