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RESOLUTION OF THE SECTION ON PREVENTIVE MEDICINE, AMERICAN MEDICAL ASSOCIATION.

Health administrators the country over have often complained of the failure of a certain proportion of the physicians practicing in their community to make prompt reports of cases of communicable diseases as required by law. Yet it is well recognized that nothing is more important in order that the health authorities may take proper steps adequately to safeguard the health of the rest of the community.

The American Medical Association has repeatedly placed itself on record as binding its members to support public health work, and it is gratifying to learn that at the recent meeting of this association at Atlantic City the following resolution was adopted by the Section on Preventive Medicine and Public Health:

Resolved, That the Section on Preventive Medicine and Public Health of the American Medical Association recommend to the House of Delegates that it ask the constituent associations to consider the advisability of such amendments to their by-laws and to those of this association as will eliminate from membership any physician who willfully fails or refuses to comply with local or State laws for the prevention of disease, including especially the provisions in such laws requiring the reporting of cases of communicable disease.

The enforcement of such an amendment to the by-laws as here proposed would be of incalculable value to the public health movement. It would make it possible to bring delinquent physicians before a court consisting entirely of their peers. This would make the American Medical Association insist that membership in the association depend on the faithful performance of the physician's duties not only to his patients, but to the public at large.

The association is to be congratulated on thus squarely accepting the responsibilities placed upon its members. Such cooperation is indeed appreciated by health administrators everywhere.

OBSERVATIONS ON THE BACTERIOLOGY OF INFLUENZA.1

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These observations were made upon (A) patients affected in an epidemic in the Student Army Training Corps of the University of Chicago, (B) civilian influenza patients in various hospitals in the

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¹ The author wishes to acknowledge his indebtedness to Dr. J. F. Norton and Miss Elizabeth Arentz for assistance in this work.

vicinity of the University of Chicago, (C) patients, mainly university students, who developed influenza in December, 1918-February, 1919, after the main Chicago epidemic had subsided, and (D) cases of tonsillitis, "colds," and other respiratory tract affections occurring during and subsequent to the epidemic. An attempt was made in Groups A, C, and D to study a few cases in great detail, making frequent and very thorough bacteriological examinations. In one case of influenzapneumonia, for example, observations extended over a period of 36 days until convalescence was complete and the patient was discharged, and included sets of plate cultures on 25 different days.

One object especially in view was the determination of the relative frequency and abundance of the Pfeiffer bacillus in the upper respiratory tract of persons suffering from influenza and from common, nonspecific respiratory tract infections. Another was a series of similar observations upon the diplo-streptococcus described by Mathers.¹ Variations in the nose and throat flora throughout the illness of one and the same individual were also particularly noted.

Methods.—In the majority of cases swabs were made from the nose, tonsils, and nasopharynx; the nasopharynx swabs were obtained by the Mathers bent-wire method as used in meningococcus-carrier work.² Nasal swabs usually failed to give results materially different from the others and in the later cases were omitted.

As soon as made, the swab was smeared on freshly poured warmblood agar plates, which were kept warm en route to the incubator. The meat infusion agar was prepared with 2 per cent peptone and made neutral to phenolphthalein; it has proved well adapted to the growth of pure cultures of the Pfeiffer bacillus. Human blood and sheep blood (5 per cent) were chiefly used; no material difference was noted. From the smear, radiating streaks were made with a platinum loop 2 and crossed after burning off the needle. Well-separated colonies are usually obtained in this way. It has been found advantageous to have plates poured on the day they are used, or at Special care was taken to most not more than 24 hours before use. keep the air of the incubator moist. If the surface of the plate is dry when inoculated, or if the air of the incubator is not sufficiently moist, growth of the Pfeiffer bacillus may be unfavorably affected. The plates were examined after 24 hours and again after 48 hours; a hand lens was always used. In the present series particular attention was paid to the occurrence of the Pfeiffer bacillus and the green-producing streptococcus isolated by Mathers. Other bacteria, when present in noteworthy numbers, were also isolated and examined. As a rule, several colonies from each plate were circled and fished with a platinum loop to a fresh plate; if this second plate was a pure culture, appropriate

¹ Jour. Amer. Med. Assoc., 1918, 71, p. 1733.

² "Standard Technique of Meningococcus Carrier Detection," published by the Medical Departments of the Army and Navy and the United States Public Health Service.

diagnostic tests were made. Heated blood-agar plates on which the Pfeiffer bacillus grows with special luxuriance were used in many cases, together with the standard blood-agar plates, but their use has not been essential for the isolation of the Pfeiffer bacillus which has grown freely upon the plain blood-agar medium which we used.

The well-known favoring influence of hemolytic colonies upon the growth of the Pfeiffer bacillus has been often observed; it has also been noted that the colonies of certain nonhemolytic bacteria have a similar stimulating effect which is quite as marked. In cases in which the growth of the Pfeiffer bacillus on the first plates was scanty after 24 hours, we sometimes obtained much larger colonies by streaking the plates with one of the growth-favoring organisms and incubating for 24 hours longer. Occasionally the original plate was too crowded for proper examination, and in such cases a second plate was made from it before fishing. Two points have seemed of special importance in the successful isolation of the Pfeiffer bacillus, particularly when this organism is present in small numbers: First, the incubation of the plates for two or three days; second, the use of the hand lens.

Sputum was examined when it was possible to obtain it. Direct stains were made and also smears on blood-agar plates in the usual way. When, as is often the case in uncomplicated influenza, sputum in washable quantity was unobtainable, we had the patient cough directly upon a blood-agar plate. Little flakes of mucus were sometimes discharged, and after 18–24 hours the growth surrounding these mucous droplets was transferred with a loop to a fresh plate. In this way the Pfeiffer bacillus has been isolated several times when the other sources of examination failed to yield it.

Blood cultures.—Blood drawn from the elbow vein (about 10 cc in each case) was added to warm broth (200 to 500 cc) and incubated for about a week. The observations comprised 11 cases of uncomplicated influenza and 8 of influenza-pneumonia. In the plain influenza cases blood was drawn on the first day in 2 cases, on the second day in 5, and in 1 case each on the third, fourth, fifth, and seventh days. In the pneumonia following influenza the blood cultures were made, respectively, on the fourth (2), fifth (1), sixth (1), seventh (2), eighth (1), and twelfth (1) days. All were sterile.

The Pfeiffer bacillus.—The small, translucent colonies on blood agar can often be identified with a high degree of certainty with the hand lens, particularly if they are numerous, in which case the heaping-up around large colonies of staphylococci and other bacteria is highly characteristic. For definite identification it has been our practice to transfer single, isolated colonies to a fresh plate; if typical growth was obtained, failure to grow on plain agar together with characteristic morphology and gram-stain reaction were regarded as sufficient identification marks. A strong, luxuriant growth can be

obtained on agar prepared with heated blood, but except for obtaining large quantities of material for inoculation experiments this medium presents no noteworthy advantages over the ordinary clear medium. It is not particularly well adapted for isolation.

It is of interest that a medium made without meat infusion, meat extract, or peptone—simple agar dissolved in physiological salt solution—to which 5 per cent of blood is added in the usual way—yields a scanty, but undoubted growth of the Pfeiffer bacillus.

For preserving cultures it is safest to make daily transfers, though if the air of the incubator is kept moist the Pfeiffer bacillus can retain its vitality for a considerable period in the incubator. We have frequently obtained growth from tube cultures that had been in the incubator for from two to three weeks. The heated blood medium is better than the ordinary blood medium for maintaining vitality.

The Mathers coccus.—This organism was isolated by the late Capt. Mathers during the influenza epidemic in September, 1918, at Camp Meade. A culture kindly furnished me by Miss Tunnicliff possessed the characters described in her paper.¹ It resembles the ordinary mouth streptococcus in some of its characters, but the colonies on blood agar are much like those of the pneumococcus, although, as a rule, larger, moister, and more confluent. It is grampositive, usually with pointed ends and in pairs. It is not soluble in bile, and most strains ferment neither inulin nor mannite. Morphologically and in colony growth it is closer to the pneumococcus than to the streptococcus, but the fermentation characters are those of the ordinary mouth streptococci.

A coccus with these characters was found in a large percentage of the cases examined, not infrequently in practically pure culture, especially in cultures from nasopharyngeal swabs. One hundred and eight strains obtained at different times from 44 different cases were subjected to careful examination. All were gram-positive, had the morphology described above, and gave a heavy, moist, green, confluent growth on blood agar. Table I shows their close relationship to strains of *Streptococcus buccalis* (Blake's classification) isolated in this same series of cases, although in morphology and in appearance of the growth on blood agar the difference is sharp.

Fermentation. Bile solubility. Num-ber of strains. Inulin. Mannite. Remarks. Lactose. + 105 104 62 Mathers coccus. 108 3 Streptococcus buccalis. Pneumococcus IV. ĭ 64 27

TABLE I.

Attempts to differentiate the Mathers coccus and Streptococcus buccalis by testing their fermentation powers on a larger number of carbohydrates have given negative results. A comparison of 10 strains of each gave results as follows: Positive—lactose, saccharose, maltose (1 strain of S. buccalis, negative), galactose (1 S. buccalis, negative; same strain negative in maltose), mannose (2 S. buccalis, negative); negative—inulin, mannite, arabinose, raffinose, sorbite, and dulcite. Type pneumococci (I, II, and III) gave similar results with these carbohydrates, except that inulin and mannite were fermented by all.

The methods of observation of the cases studied are illustrated in Table II.

TABLE II.

Case 21 (Influenza-pneumonia).

						·
Day of disease.	Tem- perature.	Leuco- cyte count.	Pfeiffer bacillus.	Mathers coecus.	Other bacteria.	Remarks.
Second	103	7,300	_	+	Pneumococcus IV, M.	M. catarrhalis more
Third	102	5,500	l	+	M. catarrhalis	abundant than any other on these dates.
Fourth		5,000	=	_	do	omer on mese dates.
Fifth		3,700	-	_	Many diphtheroids	
Seventh		4,600	-	-	Many staphylococci	
Eighth	104	4,200	_	-	Many diphtheroids and streptococci.	
Ninth Fifteenth	103. 2 100. 4	6,200 9,900	- +	Ξ	Many staphylococci S. buccalis (Pfeiffer bacillus very abundant).	Almost pure culture of staphylococci in na- sopharynx. This is rather unusual.
Eighteenth	99.4	14,400	+	+	Some diphtheroids	,
Twenty-first	98.4	14,400 14,200	+++++++++++++++++++++++++++++++++++++++	+		
Twenty-sixth	. 98	1 12,900 7,800	+	_	do	
Thirty-seventh.	98	7,800	-	_	Streptococcus buccalis; M. catarrhalis.	
First	102 102 100.6 99	6,000 5,400 8,000	- - + +		Staphylococci Diphtheroids; M. ca- tarrhalis. M. catarrhalis B. mucosus capsulatus.	
		C.	LSE 66 (U	ncomplic	ated Influenza).	
	103	4,900	_	_	A few S. buccalis	Almost pure culture
First	100	2,500	_	+ + +	do	Mathers coccus.
Second	100		_	+	Staphylococci	Mathers coccus not
Tilliu	100		1	•		nearly so abundant
		ı				as on preceding days.
Fifth	97.6		#	++	Many staphylococci	Few if any bacteria be- sides Pfeiffer bacillus
Seventh	97	27,460	+	+		sides Pieiner Dacinus
501020						and Mathers coccus.
Ninth	97	7,300	+	+		Mathers coccus abundant.
Fourteenth. Discharged.						
		1 Twenty-	ourth.		sixth.	

In all, 47 cases of influenza were studied in this way. The distribution of the Pfeisfer bacillus and the Mathers coccus was as follows:

TABLE III.

Group.	Number of cases examined.	which Pfeiffer	Number in which Mathers coccus was found.
A1. Uncomplicated influenza, October. A2. Influenza-pneumonia, October. (Groups A1 and A2 in same epidemic.) B. Hospital influenza and influenza-pneumonia. O. Uncomplicated influenza, December-February.	11 8 17 11	8 3 11 8	* 4 8 8 11
Total	47	30	31

Arrangement in such a numerical table has its limitations and does not give a complete picture of the findings, since most of the cases in Groups A1, A2, and C were examined many times, while nearly all of those in Group B were examined only once. Groups A1 and A2 are fairly comparable with one another in respect to the number of observations in each case, and so far as the examination of this limited number of cases from one localized epidemic is concerned, there is no doubt that Pfeiffer bacilli occurred more frequently and more abundantly in the uncomplicated influenza cases than in those in which pneumonia developed.

Comparison of the tabular record for Groups A1 and C, on the other hand, might be misleading, since the Pfeiffer bacillus was present in much larger numbers in the December-February cases (Group C) than in the October cases (Group A1). Whereas in the earlier cases Pfeiffer bacillus colonies were relatively infrequent compared with the numbers of other bacteria, in the later cases there were many plates in which the Pfeiffer bacillus and the Mathers coccus were practically the only organisms present. Considering the number of colonies of Pfeiffer bacillus on each plate and the proportion of daily observations that were positive, the actual abundance of this organism in the upper respiratory tract was far greater in the later cases than in the cases observed during the height of the epidemic in Chicago. contrast between the cases in Group B and those in Groups A1 and A2 (Table III) was even more pronounced. Although the total of examinations in the hospital cases was much smaller, the Pfeiffer bacillus was present in a relatively high proportion of the plates examined and usually in great numbers. The significance of relative abundance as disclosed by plate culture is somewhat problematical and the bearing of such facts upon the rôle of the Pfeiffer bacillus must be regarded for the present as quite uncertain.

In 18 cases in which the Pfeiffer bacillus was found, examinations made on the first to the third day of the disease showed this organism present in 8, the Mathers coccus in 11 cases; in 7 cases neither of these

organisms was found on the first three days of the disease. In 6 of the 10 cases in which the Pfeiffer bacillus was not found on the first three days, it was found later (see, e. g., Table II, cases 24 and 66). The Mathers coccus, when present at all, was always found on the early days of the attack.

Other bacteria.—The usual bacteria of the upper respiratory tract were found in most of the cases, although in greatly varying numbers. both in different individuals and in the same individuals on different days. The men in the Section B epidemic group (Table I, Groups A1 and A2) harbored a far greater variety of bacteria than patients The close contact of these men with one another from other sources. during their preliminary illness and in the emergency hospital evidently favored a generous transfer of bacteria from throat to throat. The result was that at the time of our examination the variety of bacteria that had found a congenial soil was very large. Diphtheroids were especially numerous and were found abundant in all the earlier cases. M. catarrhalis was also very commonly present, often in great numbers. (See Table II, case 21.) S. buccalis occurred in varying numbers, but was rarely very abundant. In many of the Section B cases in October a large gram-negative diplococcus was present which formed very delicate, translucent colonies and died out readily even when transferred frequently on blood-agar. It grew in the first generation very scantily on plain agar and since it did not ferment dextrose it is perhaps to be regarded as belonging to the M. catarrhalis group, although under the conditions of our work it proved a much less vigorous organism than M. catarrhalis or than the Pfeiffer bacillus.

Pneumococci were found in 10 cases, but several strains were irregular in respect to inulin and mannite fermentations. All but one (IIa) fell in Group IV on application of the agglutination test.

The Friedländer bacillus was found in 4 cases, in one of these in large numbers.

Hemolytic streptococci were found in 7 cases, all but one of these in the later stages of the epidemic; in 5 cases they were numerous. In one patient no hemolytic streptococci were observed during the primary attack (3 sets of examinations). Twelve days after recovery and discharge, the patient was readmitted with a temperature of 104° and subjective symptoms described as being very similar to those of the original attack; hemolytic streptococci were present in practically pure culture in the throat and nasopharynx. This second attack or relapse was of short duration and the patient was discharged five days later. Bacteriologically, it appeared like a new infection with an organism not originally present. The leucocyte count on the fourth day of the second attack was 14,500. A second case of the same nature was found later.

Bacteriology of colds, etc., during the epidemic.—Twenty-eight cases of tonsillitis, sore throat, and common cold among university students were examined—about half of these (13) while the influenza epidemic was at its height in October-November, 1918, the others in January-March, 1919, after the influenza cases had practically disappeared from the neighborhood. The organisms most commonly found on blood-agar plates were as follows:

Total cases examined	28
Mathers coccus.	
Hemolytic streptococci	12
Pneumococcus IV	
Pfeiffer bacillus.	4

The Friedländer bacillus was found once in abundance and *M. catarrhalis* was found several times, though not in large numbers.

Observations on these cases were made in precisely the same manner as that of the observations upon the influenza cases. Typical records in Table IV may be compared with the influenza records in Table II.

TABLE IV.

CASE 100 (Common cold)

			CASE	100 (C:0III	mon cola).		
Day of disease.	Tem- pera- ture. Leuco- cyte count.		Pfeiffer bacillus.	Mathers coccus.	Other bacteria.	Remarks.	
Second Sixth Seventh	104 101.6 102	8,900 8,100 7,800	- - +	- -	M. catarrhalis. Hemolytic streptococci S. buccalis.	İ	
		(CASE 101 (Severe co	ld, sore threat).		
ThirdFitthSixthSeventhEighthThirteenthFourteenth	102 100 99	10,500 8,100 7,900 6,000 5 400 10,200 7,600	-+ 	- + + + - +	M. catarrhalis Pneumococcus IV. S. buccalis do do		
				Case 10	03.		
First	98 98	12,900	-	+	Pneumococcus IV, S. buccalis. Pneumococcus IV, S. buccalis, M. catarrh-		
Fourth Fifth Seventh	98 98 98	10, 300 7, 800 6, 600	-	+ + +	alis. dodos. S. buccalis, M. catarrhalis. Pneumococcus IV, S. buccalis, M. catarrhalls.		
<u> </u>			CASI	E 111 ¹ (To	nsillitis).		
SecondFourth	102	9,700 13,400	=	+	Hemolytic Streptococci . S. buccalis	Almost pure culture hemolytic strepto- cocci; very few other colonies.	

Case 111 was one of 4 cases of tonsillitis developing at the same time, and all with a history of exposure at a party 18-24 hours before attack. All 4 cases showed leucocytosis during the first 4 days of the attack, the maximum ranging from 13,400 in one case to 20,800 in another. Three of the cases showed a relative increase of the neutrophils (82 to 86 per cent). The bacteriological picture as shown in throat and nasopharynx swabs was remarkably similar. Hemolytic streptococci were very abundant on all plates and were by far the predominating organisms. In one case pneumococcus IV was present in small numbers in one examination, but in the other only a few colonies of the Mathers streptococcus and of 8. buccalis were found in addition to the hemolytic streptococci. Between the first and second examinations two throat treatments with methylene blue were given, but the character of the flora of nasopharynx and throat was not appreciably altered by this procedure.

The clinical picture of these common endemic respiratory tract infections was distinctly different from that of epidemic influenza, although many of the symptoms were similar and the attack, at first, was frequently regarded by the patients and others as influenza. Headache, dizziness, and pain in the joints and limbs were common accompaniments of these cases, and in some instances the onset was sudden. On the other hand, sore throat was much more frequent and pronounced than in the cases of epidemic influenza, and patches were often observed on the mucous membrane. In the majority of cases the temperature did not run above 102°, and the fever was not prolonged beyond 24–48 hours. The leucocyte count was high in nearly all these cases. Thirty-nine leucocyte counts made in 20 cases, usually on the two days of the height of the attack, gave an average of 11,500. The range was as follows:

Above 10,000	22
7,000-10,000	11
Below 7.000	6

In only one case was the leucocyte count similar to that observed in the majority of cases of true influenza. In this case (107) the leucocytes were: Third day, 6,700; fourth, 4,500; fifth, 5,200; seventh, 5,100. The symptoms were not unambiguous: Headache, pain in back, no sore throat, no cough, no nosebleed. The temperature was not high (second day, 101.8) and quickly subsided (third day, 98.6) and none of the symptoms was severe. The predominating organism on the third, fourth, and fifth days was the Mathers coccus, although some pneumococci Type IV were found on the fourth and fifth days. On the seventh day many Friedländer bacilli were found. This case may have been one of light influenza, but there were no other cases in the neighborhood or among the associates of (107) at this time (Feb. 2–8, 1919).

In comparing the October-November cases of cold with those in January-March the most conspicuous difference was the much larger number of cases with hemolytic streptococci and with pneumococci (Type IV) in the latter group.

	Number of cases.	Hemo- lytic Strepto- cocci.	Pneumo- coccus IV.	Mathers coccus.	Pfeiffer bacillus.
Height of influenza epidemic, OctNov., 1918	13 15	2 10	1 6	4 11	1 3

TABLE V.—Bacteria in cases of cold, etc.

The richer flora in the second group of cases may be connected with the greater severity of these cases, and this in turn may be dependent upon the season of year. At all events, the relatively mild cases

of common respiratory tract infection that were examined during the height of the influenza epidemic did not harbor the Pfeiffer bacillus in nearly as high proportion as did the influenza cases examined at the same time; neither did they, except in a few cases, harbor in abundance hemolytic streptococci, pneumococci, or the Mathers coccus. In several cases the only organism growing in any considerable numbers on blood agar plates was the common mouth streptococcus (S. buccalis).

The association of large numbers of hemolytic streptococci (var. Beta) with cases of tonsillitis, and generally with cases of severe throat inflammation, was markedly evident in this series. This corresponds with the relative scarcity of this organism in the cases of true influenza, in which as a rule sore throat was not observed.

Leucocyte counts.—In the course of these observations leucocyte counts were made, as a rule, on the same days when throat swabs were taken. The average counts in simple influenza showed a leucopenia, as recorded in Table VI. The term "simple influenza" is here used to designate those cases not showing signs of clinical pneumonia. The patients usually regained a normal condition by the end of the first week, although with the ordinary aftermath of weakness.

Days of disease.	Cases.	Total leuco- cytes.	Polymor- phonu- clears.	Lymphocytes. Per cent.	Large mononuclears and transitionals. Per cent.
Second and third. Fourth and Fifth. Sixth and seventh Eighth to twelfth. Twelfth to thirtieth (after full recovery and discharge).	13 9 6 10	6,100 4,900 6,100 7,500 9,100	63 62 59 66	28 33 32 25	9 5 9 9

TABLE VI.—Leucocyte counts—simple influenza.

Eosinophiles were generally absent during the attack.

Individual cases sometimes showed considerable deviation from the average. In one case the lowest count (4,300) was not reached until the eighth day of the disease. Several cases without any apparent complication gave leucocyte counts of over 10,000 for a week or more after seemingly complete recovery. In general, the counts ran rather high for some time after the patient was able to return to his ordinary vocation.

Similar observations on the influenza cases in which clinical pneumonia developed showed a drop in the number of leucocytes similar to that recorded above, but after a longer or shorter interval this was followed in each of the cases here observed by a moderate leucocytosis (14,000–15,000) which, however, in one case (cf. 21, Table II) did not

appear until about the fifteenth day. The differential ratio was not appreciably altered in these cases. Quite different is the normal leucocyte count in ordinary colds, tonsillar inflammations, etc.

Tibal VII. Discours courts court, etc.								
Days of disease.	Cases.	Total leuco- cytes.	Polymor- phonu- clears.	Lympho- cytes.	Large mononu- clears and transi- tionals.			
First, second, and third	22 8 7 3	12,600 11,600 8,800 7,200	Per cent. 73 74 69 68	Per cent. 22 20 25 25	Per cent. 5 6 6 7			

TABLE VII.—Leucocyte counts—colds, etc.

Comparison with Table VI brings out very plainly the average differences in total leucocyte counts. Whether the slight divergences in the differential count that appear in these figures have significance will need a larger number of observations to determine. As already stated, several cases have been observed in the course of this study which, clinically, seemed more like colds than like true influenza, but which had a low leucocyte count throughout. In the absence of any definite diagnostic criterion the relationship of these infections to true influenza must remain uncertain.

Summary.

The bacteriological picture in influenza is not a uniform one so far as nose and throat flora are concerned. The ordinary methods of cultivation with blood agar plates show marked differences in individual cases. Groups of individuals who have been in more or less intimate contact with one another may harbor very similar assemblages of microorganisms, but differ from other groups examined at the same time. The variations in respiratory tract flora reported by many observers during the progress of an influenza epidemic are doubtless, in part, group differences.

Daily examinations of a number of selected typical cases, mild and severe, have shown no one organism constantly demonstrable in large numbers by the methods employed. The two organisms most commonly and abundantly present in this series were the Pfeiffer bacillus and the diplococcus or streptococcus found by Mathers at Camp Meade.

The Pfeiffer bacillus was found in 64 per cent of the influenza cases examined between October, 1918, and February, 1919. It was present in much larger numbers in the throats of the patients examined toward the end of the outbreak. Several cases did not come under observation until clinical pneumonia had developed and in these cases the Pfeiffer bacillus was not found as frequently as in the

¹ This is apparently very similar to, if not identical with, the organism described by Zingher, Jour. Amer. Med. Assoc., 1919, 72, p. 1020.

"uncomplicated" cases. Other cases for various reasons could be examined only once or twice, and the findings are not strictly comparable with those in which daily examinations were carried out. The percentage of positive findings would probably have increased if all patients had been subjected to examination throughout the sourse of the attack. The relative abundance of the Pfeiffer bacillus varied greatly. In some cases it was the predominant organism: in others only a few colonies could be found, no more than in normal throats. It did not often happen in this series that hemolytic streptococci (var. Beta) and the Pfeiffer bacillus were both present in large numbers. On the other hand the Pfeiffer bacillus and the Mathers coccus often had the field almost to themselves. In a few cases the Pfeiffer bacillus was present in such overwhelming numbers in cultures from nose, nasopharynx, and throat, that participation in a pathologic process was strongly suggested. These cases, however, did not differ clinically in any appreciable way from other cases in which the Pfeiffer bacillus was found scantily.

The Mathers coccus was found about as frequently and abundantly as the Pfeiffer bacillus, although its occurrence was quite independent of that of the latter. Its association with the pneumonia cases seemed to be closer than that of the Pfeiffer bacillus, but it was also found in all the later cases of simple influenza. Variations in the abundance of this organism were quite as marked as were those of the Pfeiffer bacillus and no relation could be demonstrated between these findings and the characters of the cases. Practically pure cultures of the Mathers coccus were obtained from the nasopharynx of some patients.

Comparison of the true influenza cases with colds and tonsillar infections showed that the general leucopenia of the influenza cases could be contrasted with the general leucocytosis of the others. Blood counts made during the first four or five days of the attack practically invariably showed at some time a leucopenia in the influenza cases and a leucocytosis in the others. The chief differences in the bacterial findings were the relative infrequency of the Pfeiffer bacillus in the colds, etc. (14 per cent), and the relatively high proportion of hemolytic streptococci (var. Beta). The Mathers coccus was present in about the same proportion of cases as in influenza.

The pneumococcus was found in about 20 per cent of the influenza cases (10:47) and in a slightly larger proportion in the cases of rhinitis and tonsillitis (7:28). No special search was made for these organisms, and it is probable that positive findings would have been increased somewhat if mouse inoculation could have been made whenever throat swabs were taken. Washed sputum, when procurable, was inoculated into mice, but the pneumococcus was not invariably isolated. In two cases as much as 2 cubic centimeters of

washed sputum from influenza patients, injected intraperitoneally, did not lead to the death of the mouse. The pneumococci isolated from both influenza and rhinitis cases were all Type IV, except one strain (IIa).

M. catarrhalis, the Friedländer bacillus, and an unidentified gramnegative diplococcus were found at times in large numbers in the throat, nose, and nasopharnyx of influenza cases. Staphylococci were also sometimes present in great abundance.

Two observations on suspected cases of "recurrence," or "second attack," have shown the presence in the throat of organisms (hemolytic streptococci) not found during the original attack. Both recurrences presented some of the clinical symptoms of influenza, but had a moderate leucocytosis. A third case of suspected "recurrence" likewise showed hemolytic streptococci in the throat and slight leucocytosis, but this patient had not been under our observation during the primary attack. It seems probable that an alleged "second attack" of influenza, occurring within a few weeks of the original attack, is, at least in some cases, a new infection with another organism.

The observations carried out by the aerobic blood agar plate method and recorded in this paper have not shown the predominance or constant presence of any one organism in the upper respiratory tract of influenza patients. The Pfeiffer bacillus, however, has been more conspicuous than any other organism, particularly in comparison with its relative infrequency in cases of rhinitis and tonsillitis examined during the same epidemic period.

POPULAR LEAFLETS ON BABY HYGIENE.

In a recent number of the Public Health Reports attention was called to the importance of health activities during the neonatal period. It is well known that the hot weather regularly brings with it an increase in mortality in this important age period. In an effort to assist State and local health officers in the educational work required to combat excessive infant mortality the Public Health Service has prepared a number of bulletins intended for popular instruction. These are available in quantity for free distribution by health officers. Requests, stating the quantity desired, should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

Fly poster-How the fly spreads disease.

1 10 35 (1)

The Care of the Baby. Supplement No. 10 to Public Health Reports.

The Summer Care of Infants. Supplement No. 16 to Public Health Reports.

The Transmission of Disease by Flies. Supplement No. 29 to Public Health Reports.

Safe Milk. Supplement No. 31 to Public Health Reports.

Safe Milk for the Small Town. Reprint No. 497 from Public Health Reports.

The Homemade Milk Refrigerator. Public Health Bulletin No. 102.

BIRTH STATISTICS AND INFANT MORTALITY.

PRELIMINARY REPORT OF THE BUREAU OF THE CENSUS FOR 1917.

In the birth-registration area of the United States 1,353,792 infants were born alive in 1917, representing a birth rate of 24.6 per 1,000 of population. The total number of deaths in the same area was 776,222, or 14.1 per 1,000. The births exceeded the deaths by 74.4 per cent. For every State in the registration area, for practically all the cities, and for nearly all the counties, the births exceeded the deaths, in most cases by considerable proportions. The mortality rate for infants under 1 year of age averaged 93.8 per 1,000 living births.

The birth-registration area, established in 1915, has grown rapidly. It comprised, in 1917, the six New England States, Indiana, Kansas, Kentucky, Maryland, Michigan, Minnesota, New York, North Carolina, Ohio, Pennsylvania, Utah, Virginia, Washington, Wisconsin, and the District of Columbia, and had an estimated population of 55,000,000, or about 53 per cent of the estimated total population of the United States in that year.

Comparison with 1916.

The birth rate for the entire birth-registration area fell below that for 1916 by two-tenths of 1 per 1,000 population; but the death rate was less by six-tenths of 1 per 1,000 than in 1916. Thus, the excess of the birth rate over the death rate for 1917, which amounted to 10.5 per 1,000, was somewhat greater than the corresponding excess for 1916, 10.1 per 1,000, although it fell slightly below that for 1915, 10.9 per 1,000. If the birth and death rates prevailing in any one of these three years were to remain unchanged, and if no migration were to take place to or from the area to which they relate, the population of the area would increase at the rate of slighly more than 1 per cent per annum, or a little more than 10 per cent in a decade. This would be about half the rate—21 per cent—by which the entire population of the United States increased between 1900 and 1910.

White and colored.

Of the total number of births reported, 1,280,288, or 24.5 per 1,000, were of white infants, and 73,504, or 25.8 per 1,000, were of colored infants. The death rates for the two elements of the population were 13.7 and 22.5 per 1,000, respectively.

Infant mortality.

The infant mortality rate—that is, the number of deaths of infants under 1 year of age per 1,000 born alive—throughout the birth-registration area as a whole was 93.8 in 1917, as against 101 in 1916 and 100 in 1915. This is equivalent to saying that in 1915 and 1916 of every 10 infants born alive 1 died before reaching the age of 1 year,

whereas in 1917 the corresponding ratio was a trifle more than 1 in 11. Among the 20 States these rates ranged from 67.4 for Minnesota to 119.9 for Maryland; and for the white population separately the lowest and the highest rates were, respectively, 66.3 for Washington and 109.5 for New Hampshire.

The infant mortality rates vary greatly for the two sexes and for the various nationalities. The rate for male infants in 1917, 103.7 per 1,000 living births, was nearly 25 per cent greater than that for female infants, which was only 83.3. When the comparison is made on the basis of race or nationality of mother a minimum of 66.2 per 1,000 births is shown for infants with mothers born in Denmark, Norway, and Sweden, and a maximum of 172.6 for infants with mothers born in Poland, while for Negro children the rate was 148.6.

Plural births.

The reports from the registration area show the birth of 14,394 pairs of twins and 155 sets of triplets in 1917—in all, 29,253 infants, or a little more than 2 per cent of the total number born.

Number of children per family.

The reports for 1,241,722 of the births occurring in 1917 contained information as to number of child in order of birth. Of these reports, 339,042 were for the first child born to the mother, 264,044 for the scond child, 191,528 for the third, 134,331 for the fourth, and 95,931 for the fifth. In the remaining 216,846 cases, or 17.5 per cent of the entire number for which information upon this point was obtained, the total number of children borne by the mother was 6 or more; in 37,914 cases it was 10 or more; in 1,600 cases, 15 or more; in 56 cases, 20 or more; and in 1 case, that of a colored woman, the birth of a twenty-fifth child was reported.

The total number of children borne by the mothers who gave birth to these 1,241,722 infants in 1917, in whose cases data were available as to previous births, was 4,093,908. The reports for 1,194,621 of the births occurring in 1917 contained information as to the entire number of children borne by the mothers and still living, and gave a total of 3,443,466, or an average of very nearly 3 living children in each family in which a birth took place in 1917.

States and cities.

The following table shows, for the birth-registration area, by States and by cities having more than 100,000 population in 1910, the number of births in 1917, the percentage of excess of births over deaths, and the infant mortality rate. The figures for the white and colored elements of the population are shown separately for those areas in which colored persons constituted more than one-tenth of the total population.

Births, excess of births over deaths, and infant mortality, 1917.

Area,	Number of births.	Excess of births over deaths.	Deaths of infants under 1 year of age per 1,000 live births.
Registration area, total	1,353,792 1,280,288 73,504	Per cent. 74.4 79.8 14.9	93. 8 90. 5 150. 7
Registration States.			
Connecticut Indiana Kansas Kantucky Maine Maryland White Colored Massachusets Michigan Minnesota New Hampshire New York North Carolina White Colored Ohio Pennsylvania Rhode Island Utah Vermont Virginia White Colored Washington White Colored Registration cities having more than 100,000 inhabitants in 1910.	37, 481 63, 144 38, 601 61, 698 16, 651 33, 963 27, 519 6, 414 95, 673 89, 159 9, 569 246, 619 70, 290 52, 850 120, 949 222, 505 13, 620 7, 753 60, 753 41, 924 18, 829 23, 464 59, 124	80. 0 58. 9 87. 0 88. 5 42. 7 44. 9. 68. 8 89. 2 129. 1 28. 3 59. 8 124. 6 138. 2 73. 6 60. 7 195. 3 38. 1 92. 7 132. 7 132. 7 132. 7 132. 7 133. 4 93. 3	93.8 85.8 77.5 87.1 93.3 119.9 201.9 97.9 88.3 67.4 199.6 84.8 133.1 92.1 111.0 107.5 69.4 85.0 97.8 80.3 77.8
Connecticut: Bridgeport New Haven	5, 109	125.1	87.1
	5, 161	98.3	83.7
District of Columbia: Washington. White. Colored.	7, 485;	13.3	97.4
	5, 250	31.7	70.9
	2, 235	1 →14.7	159.7
Indiana: Indianapolis	5, 955	20.0	95.2
Kentucky: Louisville White Colored Maryland:	4,112	4.9	96. 5
	3,593	25.9	85. 6
	519	1-51.3	165. 7
Baltimore. White. Colored. Massachusetts:	15, 040	32.5	118.4
	12, 645	51.2	103.4
	2, 395	120.0	197.1
Roston	19, 877	56.5	99. 1
Cambridge	2, 763	72.1	74. 6
Fall River	3, 807	79.9	158. 9
Lowell	3, 289	69.5	140. 2
Worcester	5, 280	89.3	94. 9
Michigan: Detroit. Grand Rapids	26, 298	124.1	103. 2
	3, 051	75.5	82. 6
Minnesota: Minnesopolis. St. Paul. New York:	8, 675	96. 6	71.5
	5, 151	89. 1	73.6
Albany. Buffalo. New York Rochester. Syracuse.	2, 259	10.8	108.9
	13, 487	76.3	104.0
	141, 234	79.9	89.0
	6, 938	69.9	84.2
	4, 199	73.1	102.4
Ohio: Cincinnati Cleveland Columbus Dayton Toledo	7,817	14.5	85.0
	20,274	87.2	108.9
	4,398	30.0	87.8
	3,311	61.1	96.0
	5,684	59.4	95.4

¹ Percentage by which births fell below deaths.

Births, excess of	of births over deaths	, and infant mortality,	1917—Continued.

Лгеа.	Number of births.	Excess of births over deaths.	Deaths of infants under 1 year of age per 1,000 live births.
Pennsylvanis: Philadelphia Pittsburgh Scranton Rhode Island: Providence Virginia: Ridhmond. White Colored Washington: Seartile Spokane Wisconsin: Milwaukee	42,788 16,543 3,298 6,395 3,790 2,500 1,240 4,876 2,104 11,289	Per cent. 44.3 55.4 46.8 60.0 29.3 59.6 1 -5.6 92.7 81.1	108. 4 119. 9 147. 7 101. 6 136. 1 93. 6 218. 6 60. 5 62. 3

¹ Percentage by which births fell below deaths.

SALE OF INFECTED MEAT CAUSING TRICHINOSIS.

PENNSYLVANIA COURT HOLDS THAT DEALER IS NOT LIABLE WHERE NEGLIGENCE IS NOT SHOWN.

That a dealer is not liable for selling meat infected with trichinæ, and which caused illness, when there was no negligence in such sale, is the decision in a Pennsylvania case.¹

In an action to recover damages for illness resulting from eating pork infected with trichinæ, the defendant offered evidence showing that "parasites, known as trichinæ, are invisible to the naked eve and can be discovered only by microscopic inspection; that such inspection is untrustworthy and does not in all cases give assurance that the particular meat inspected and approved is free from parasites; that no system of inspection is known to science by which the presence of trichinæ can be detected with certainty in all cases; and that the only sure method of eliminating the danger is to thoroughly cook the meat at a temperature of at least 140°, whereby the harmful parasites are destroyed and the meat rendered wholesome and fit for food." Defendant also showed that "for the reasons above stated, the United States Government concluded an attempt to inspect all pork for trichinæ would result in more danger to the public than no inspection, for the reason [that] knowledge on the part of the public that an inspection had been made would lead to a false sense of security and induce consumers to omit taking proper precautions to avoid danger by thoroughly cooking."

It was shown, too, that other packing establishments made no inspection for trichinæ.

The court held that there had been no negligence on the part of the dealer.

SALE OF CONDENSED MILK.

UNITED STATES SUPREME COURT DECISION UNDER OHIO LAW.

An Ohio statute prohibited the sale of condensed milk unless made from pure unskimmed milk. The United States Supreme Court has decided that this law prohibits the sale of an article consisting of condensed skimmed milk and a vegetable fat, although not sold as condensed milk.

DEATHS DURING WEEK ENDED JUNE 14, 1919. IN CITIES.

The table following shows the registered deaths from all causes and from pneumonia (all forms) and influenza combined in certain large cities of the United States during the week ended June 14, 1919.

The data are taken from the "Weekly Health Index." June 17. 1919, issued by the Bureau of the Census, Department of Commerce.

Registered deaths and annual death rates per 1,000 population in certain large cities of the United States, week ended June 14, 1919—Death's from all causes, and from pneumonia (all forms) and influenza combined.

	Population		Annual death	Annual death	Influenza and pneu- monia (all forms).	
City.	July 1, 1918, estimated.	deaths, all causes.	rate per 1,000.	rate for preceding years. ²	Number of deaths.	Annual death rate per 1,000.
Albany, N. Y	112,565	37	17.1	C 10 0		
Atlanta, Ga		63	16.3			
Baltimore, Md.	* 669, 981	165	12.8	A. 16.1		
Birmingham, Ala	197, 670	49	12.9	A. 18.0		·····
Dorton More	785, 245	169	11.2	A. 15.1	6	0.4
Boston, Mass	473, 229	120	13.2			
Cambridge, Mass	111, 432	24	11.2	A 12 4		• • • • • • • • • • • • • • • • • • • •
Chicago, Ill		622	12.5	A. 13.0	50	1.0
Cincinnati, Ohio	418,022	109	13.6			1.0
Claratend Ohio	810,306	140	9.0	C. 9.6	13	.8
Celumbra Obio	225, 296	56	13.0	C. 13.2		
Dowton Ohio	130,655	18	7.2	C. 8.4		.0
Cleveland, Ohio	200,000	60		0. 0.1	ľ	•••••
Pall Divar Mass	128,392	28	11.4	C 10 2		••••••
Grand Rapids, Mich	135, 450	24	9.2			
Indianapolis, Ind	290,389	74	13.3			
Vancos City Mo	313, 785	92	15.3	C. 16.0	7	1.2
Kansas City, Mo	568, 495	99	9.1	A. 12.9		
Louisville, Ky	242, 707	55	11.8	C. 12.7		
Lowell, Mass.		18	8.6			
Memphis, Tenn		66	22.2	C. 19.2	1	.3
Milwaukee, Wis		ğı l	10.5	A. 11.2		
Minneapolis, Minn	383, 442	71	9.7	C. 12.2		
Nashville, Tenn	119, 215	44	19.2	Č 22 7		
Namer N I		62	7.5	C. 11.9		
Newark, N. J	154, 865	39	13.1	C 15 2		
Nam Orleans I &	382, 273	130	17.7	A. 19.6		
New Orleans, Le. New York, N. Y.	5, 215, 879	1, 131	îi.3	C. 11 6		
Oakland, Calif	214, 206	39	9.5	ă. 11. 1		
Philadelphia, Pa	1,761,371	409	12.1	4 14 3		
I maucipma, I a	, 101,011 .	±09 .	12.1	- 41,0 ,		

 ¹ Hebe Co. et al. v. Shaw, Secretary of Agriculture of Ohio, et al., 39 Sup. Ct., 125.
 2 "A" indicates that the rate given is the average annual death rate per 1,000 population for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates that the rate is the annual death rate per 1,000 population for the corresponding week of 1918.
 2 Population estimated as of July 1, 1919.
 4 Rate is based on statistics of 1915, 1916, and 1917.

Registered deaths and annual death rates per 1,000 population in certain large cities of the United States, week ended June 14, 1919—Deaths from all causes, and from pneumonia (all forms) and influenza combined—Continued.

	Population			Annual death	Influenza and pneu- monia (all forms).		
City	July 1, 1918, estimated.	deaths, all causes.	death rate per 1,000.	rate for preceding years.	Number of deaths.	Annual death rate per 1,000.	
Pittsburgh, Pa Portland, Oreg Providence, R. I. Richmond, Va. Rochester, N. Y. St. Louis, Mo St. Paul, Minn. San Francisco, Calif Seattle, Wash	593, 203 263, 613 160, 719 264, 856 779, 951 257, 699 478, 530	160 53 39 45 53 186 58 150 62	7.7 14.6 10.4 12.4 11.7 16.3	C. 11.8 C. 9.5 C. 19.5 C. 10.8 C. 11.4 C. 8.5 C. 14.7	22 5 5 1 1 1 17 6	1.9 1.0 .3 .2 1.9	
Spokane, Wash Syracuse, N. Y Toledo, Ohio Washington, D. C Worcester, Mass	161, 404 262, 234 401, 681 173, 650	22 35 48 86 46	11.3 9.5 11.2 13.8	C. 12.0 A. 13.6 A. 13.9 C. 13.5	9	1.2	

Summary of information received by telegraph from industrial insurance companies for week ended June 14, 1919.

Policies in force	39, 337, 515
Number of deaths.	7, 991
Number of deaths per 1,000 policies in force, annual rate	10. 6

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 JUNE 21.

CAMP DIX ZONE, N. J.		CAMP GORDON ZONE, GA.—continued.	
No cases of communicable diseases reported.		Atlanta—Continued. Ca	ses.
·		Scarlet fever	1
FAYETTEVILLE SANITARY DISTRICT, N. C.		Smallpox	9
Cas	ses.	Tuberculosis	4
Gonorrhea	6	Typhoid fever	î
Syphilis	3	Whooping cough	2
Typhoid fever	1		_
Vincent's angina	1	GULFPORT HEALTH DISTRICT, MISS.	
GAS AND FLAME SCHOOL ZONE, GA. AND ALA.		Chancroid:	
Chancroid:		Pascagoula	1
Alabama	1	Dysentery:	
Muscogee County	1	De Lisle	1
Chicken pox:		Lyman.	1
Columbus	1	Gonorrhea:	
Gonorrhea:		Gulfport	2
Columbus	6	Long Beach	1
Muscogee County	5	Moss Point	1
Bibb City	1	Pascagoula	2
Influenza:		Hookworm:	
Columbus	1	Gulfport	2
Malaria:		Long Beach	1
Columbus	2	Malaria:	
Muscogee County	2	Bilox1	1
Girard	1	Escatawpa	4
Measles:		Fernwood	1
Columbus	1	Gulfport	14
Muscogee County	1	Helena	1
Bibb City	1	Kiln	3
Pellagra:		Krcole	1
Muscogee County	1	Lyman	2
Pneumonia:		Mississippi City	2
Muscogee County	1	Moss Point	3
Phoenix City	1	Nugent	1
Smallpox:		Ocean Springs.	1
Columbus	1	Pascagoula	1
Syphilis:		Measles:	
Columbus	11	Moss Point	1
Camp Benning	1	Pascagoula	5
Girard	1	Mumps:	
Typhoid fever:		Ansley	1
Columbus	1	Biloxi	4
Whooping cough:	_	Gulfport	3
Muscogee County	2	Kiln	1
CAMP GORDON ZONE, GA.		Moss Point	1
Atlanta:	-	Pellagra:	
Chancroid	2	Gulfport	1
Chicken pox	1	Lyman	1
Gonorrhea	9	Pneumonia:	
Measles	6	Biloxi	1
•	/3 4	201	

GULFFORT HEALTH DISTRICT, MISS.—contd.		PORTSMOUTH AND NORFOLK COUNTY HEALTH	
Scarlet fever: Ca	ses.	Chicken pox: Ca	ses.
Kiln	2	Portsmouth	. :
Tuberculosis:		Norfolk	
Biloxi	1	Diphtheria:	
Long Beach	1	Portsmouth	2
Typhoid fever:	_	Gonorrhea:	
Kiln	1	Norfolk County	1
Whooping cough:		Measles:	
De Lisle		Portsmouth	
Gulfport		Norfolk	1
Hovey	1 5	Scarlet fever:	_
Ocean Springs	5	Norfolk	
CAMP JACKSON ZONE, S. C.		Portsmouth	1
Columbia:		Smallpox:	
Chicken pox	8	Norfolk County	
Smallpox	_	Norfolk	
Tuberculosis	2		
Typhoid fever	1	Tuberculosis:	
Whooping cough	6	Norfolk County	
Government clinic:			-
Gonorrhea.	13	Typhoid fever: Norfolk County	2
Syphilis	8	Portsmouth	2
-, <u>F</u>		i .	. •
CAMP LEE ZONE, VA.		CAMP SHERMAN ZONE, OHIO.	
Petersburg:		Government clinic:	
Gonorrhea	3	Gonorrhea	_
Gonorrheal ophthalmia		Syphilis	1
Tuberculosis	2	Scioto Township:	
Typhoid fever	3	Scarlet fever	1
•		SOUTHER FIELD ZONE, GA.	
CAMP MERRITT ZONE, N. J.		Chicken pox	1
Englewood:		Malaria (outside controlled area)	6
Chicken pox	1	Tuberculosis, pulmonary	1
Diphtheria	1	CAMP TRAVIS ZONE, TEX.	
•		San Antonio:	
PICRIC ACID PLANT ZONE, GA.		Chicken pox	1
Brunswick:		Diphtheria	
Gonorrhea	4	Gonorrhea	_
Pellagra		Influenza	1
Syphilis	2	Malaria	2
Tuberculosis	1	Measles	1
Typhoid fever	3	Tuberculosis	3
		CAMP UPTON ZONE, N. Y.	-
CAMP POLK ZONE, N. C.		•	
Chancroid:		Brook Haven:	
Durham	1	Measles	1
Chicken pox:	_		2
Raleigh	1	Riverhead: German measles	1
Gonorrhea:			•
Durham	2	WILMINGTON SANITARY DISTRICT, N. C.	
Raleigh	2	Castle-Hayne:	
Poliomyelitis:		Typhoid fever	1
Raleigh	1	Wilmington:	
Smallpox:		Diphtheria	1
Wake Forest Township	3	Gonorrhea	7
Syphilis:		Malaria	2
Durham	1	Measles	1
Tuberculosis:	- 1	Mumps	1
Raleigh	1	Pellagra	1
Typhoid fever:	l	Scarlet fever	1
Durham	1	Syphilis	3
White Oak Township	1	Tuberculosis	4
Whooping cough:		Typhoid fever	1
Durham	10	Whooping cough	2

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General of the United States Army for the week ended June 13, 1919. Reports from the American Expeditionary Forces are delayed in transmission, and the "current week" for troops in the American Expeditionary Forces is not the same period as "current week" for troops in the United States.

	Current week.	Last week.
Annual admission rate per 1,000 (all causes) All troops in United States. American Expeditionary Forces.	1,284.52	488.63 806.39 322.66
American Expeditionary Forces. Annual admission rate per 1,000 (disease only). All troops in United States. American Expeditionary Forces. Noneffective per 1,000 on day of report.	1,091.26 274.76	416.00 673.81 281.33 23.10
All troops in United States American Expeditionary Forces	52.53 19.86 7.69	46.55 22.41 7.59
All troops in United States \(^1\) American Expeditionary Forces. Annual death rate per 1,000 (disease only).	11.80 5.54 5.23	9.53 6.58 4.83
All troops in United States 1 American Expeditionary Forces.	9.86 2.81	8.05 3.15

Sick and death rates among troops in the United States will continue to be relatively high, as the numerical strength of troops in the United States continues to decline from week to week as a result of demobilization. Well men only are eligible for discharge, while the sick and otherwise disabled are retained in service for further treatment. The continued influx of sick and wounded (properly chargeable to commands overseas) is another factor tending to increase rates in the United States and to diminish correspondingly similar rates overseas.

Cases of special diseases reported during the week ended June 13, 1919.

Pne	Pneu- Dys		Ma-	Venereal diseases.		Influ-	Influ- Mea-		Scar-		Nonef- fective
Camp.	mo- nia.	en- tery.	laria.	Total.	New infec- tions.	enza.	sles.	ingi- tis.		- mission rate per 1,000 (disease only). - 515. 17 - 407.94 - 79. 14 - 662. 86 - 395. 69 - 80 - 337. 11 - 11,19. 44 - 832. 10 - 921. 50 - 387. 23 - 1,132. 07 - 656. 41 - 1,179. 95 - 1,167. 65 - 1,132. 07 - 656. 46 - 513. 01 - 902. 53 - 1,134. 36 - 1,134. 36	1,000 on day of report.
Benning	1		1	7 8	6 2					407.94	19.81 33.21
BraggCuster	1			6	5		····i			662.86	10.65 48.96
Devens	5			12 40 11	······ 2	2	<u>2</u>		1	659.80	38.89 62.99 94.54
DodgeFunstonGordon.				13 25		<u>1</u>	î			1,119.44 832.10	59. 25 35. 45
Grant				36 1 34	1					387.23	65.51 27.65 98.28
Jackson				2	•••••		i			796.93	178.60 4.73
LeeLewis			1	23 8	8 3					1,179.95	15. 81 137. 72
MeadePikeShelby	1		1 2	12 13 6	2		2			1, 132. 07	77.96 135.26 54.48
Sherman				21 1	<u>.</u>					513.01	95.05 94.36
Travis Upton Holabird	2			5 20 2	5 2 1					1,134.36	83. 22 82. 43 9. 70
Northeastern Department. Eastern Department. Southeastern Department.	1			7 9	3 4	5	1			1,095.32 515.86	29.98 17.98
Southeastern Department. Central Department Southern Department	1 1		1 ₂	. 5 . 37	1 5	20				608.58	25. 51 24. 05 74. 64
Western Department A viation camps				21 11	13		1				11.81 42.90
Port of embarkation: Hoboken Newport News	7 17			22 71	_{i0} .	3 64	5	1	1	3, 129. 38 3, 260. 74	85. 75 70. 51

Cases of special diseases reported during the week ended June 13, 1919—Continued.

	Pneu- Dys		Dvs.	Vene disea		T . G	15.	Men-	Scar-		Nonef- fective
Camp.	mo- nia.	en- tery.	Ma- laria.	Total.	New infec- tions.	Influ- enza.	Mea- sles.	ingi- tis.	let fever.	per 1,000 (disease only).	1,000 on day of report.
Fort Monroe				3						542.76	20. 53
racks										771.51	17.80
Leavenworth disciplinary barracks.	l									707. 83	43.16
Columbus Barracks		•••••		3	1					736. 28	30.03
Jefferson Barracks				ž	2				1	4,635.95	15.30
Fort Logan				8	8	1				1,857.14	45. 91
Fort McDowell				8						1, 259. 51	38.06
Fort Sill				7	1					390.87	21.29
Fort Slocum				1 3	1					920.35	29. 27
Fort Thomas		•••••		3	1					840. 79	41.04
West Point.	•••••	•••••		2						480.59	12.93
Arsenals		•••••	• • • • • •	5						604.65	31.67
Miscellaneous small sta- tions				8	4					541.04	25.63
Total	39	1	8	547	98	96	14	2	3	1,091.26	52. 53

Number of deaths at large camps in United States, week ended June 13, 1919.

		De	aths.			Dea	aths.
Camp.	Strength.	All causes.	Disease only.	Camp.	Strength.	All causes.	Disease only.
Benning Bowie Bragg Custer Devens Dix Dodge Funston Gordon Grant Humphreys Jackson Kearny Henry Knox Lee Lewis Meade Pike Holabird Shelby	3,824 657 2,981 13,016 17,894 5,553 4,320 4,062 8,013 1,880 4,019 1,566 9,897 9,107 3,173	0 0 0 0 0 4 4 0 3 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sherman. Taylor. Travis. Upton. Northeastern Department. Eastern Department. Southeastern Department. Central Department. Southern Department. Western Department. Aviation camps. Port of embarkation: Hoboken. Newport News. All others.	2, 247 10, 364 2, 801 11, 295 3, 528 3, 076 29, 035 8, 634 14, 597 35, 468	1 0 0 0 0 0 0 1 0 4 1 1 0 0 4 1 1 7 7 9	1 1 1 1 16 38 66

Annual admission rate per 1,000 for certain diseases.

	Troops in Sta	n United tes.	American Expedi- tionary Forces.	
Disease.	Current week.	Last week.	Current week. 4.52 1.15 3.39 57.48 0.07 1.56	Last week.
Pneumonia Dysentery Malaria Venereal Paratyphoid Typhoid Measles Meningitis Ecarlet fever		10. 20 .00 .80 69. 18 .00 .00 .67 .26 1. 61 16. 11	.15 .39 57.48 .07	3. 50 . 28 . 77 57. 30 . 00 . 28 1. 19 . 84 . 35

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended June 21, 1919.

Alabama.—State totals: Typhoid fever 9, malaria 21, smallpox 11, measles 8, scarlet fever 5, diphtheria 2, pulmonary tuberculosis 24, infantile paralysis 5, chicken pox 8, venereal diseases 77.

Arkansas.—Malaria 119, tuberculosis 32, pellagra 22, chicken pox 17, whooping cough 11, dysentery 15 cases and 4 deaths, typhoid fever 6, influenza 4, smallpox 3, scarlet fever 2, trachoma 1.

California.—Smallpox: Cases reported 27, of which in Fresno County 6, Stockton 7, San Francisco 8, San Jose 4, Eureka 1, Oakland 1. Typhoid fever: Cases reported 15, scattered over the State. Epidemic cerebrospinal meningitis: Anaheim 1, Sacramento 1. Influenza, cases reported 37.

Connecticut.—State totals: Poliomyelitis, New Milford 1.

Delaware.—Diphtheria: Smyrna 1, Wilmington 2. Measles: Wilmington 1. Scabies: Middletown 1. Tuberculosis: Dover 1, Wilmington 3. Chancroid: Dover 1, Wilmington 3. Gonorrhea: Dover 1, Millsboro 2, Selbyville 1, Wilmington 13. Syphilis: Milford 1, Wilmington 1.

Florida.—State totals: Typhoid fever 19, malaria 16, smallpox 1, scarlet fever 4, diphtheria 2, dysentery 7.

Georgia.—State totals: Hookworm 1, cerebrospinal meningitis 1, chicken pox 6, diphtheria 4, dysentery (amebic) 2, dysentery (bacillary) 27, gonorrhea 38, malaria 34, measles 16, mumps 21, pneumonia (acute lobar) 8, scarlet fever 6, septic sore throat 3, smallpox 26, syphilis 16, tuberculosis (pulmonary) 17, typhoid fever 40, whooping cough 17.

Minois.—Diphtheria: Cases reported 96, of which in Chicago 65, Galesburg 3, East Moline 3. Scarlet fever: Cases reported 49, of which in Chicago 40. Smallpox: Cases reported 86, of which in Sullivan 15, Peoria 12, Sawyerville 6, Witt 5, Indian Creek Township (White County) 5, White Hall 4, Galesburg 4, Rockford 4, Granite City 3. Poliomyelitis, 2 cases reported from Chicago. Lethargic encephalitis, 1 case reported from Jersey Township (Jersey County). Gonorrhea 113, syphilis 42.

Indiana.—Reports follow by counties: Scarlet fever: Elkhart and St. Joseph. Diphtheria: Johnson 3, Hendricks 1, White 1, Grant 1, Kosciusko 1, and Montgomery 1. Syphilis 33, gonorrhea 53, chancroid 1.

Iowa.—Chancroid: Council Bluffs 1. Chicken pox: Davenport 7. Diphtheria: Barnes City 1, Brooklyn 1, Cedar Rapids 1, Council Bluffs 1, Davenport 4, Des Moines 2, Dubuque 1, Ireton 2, Mason City 1. Gonorrhea: Boone 4, Brooklyn 1, Cedar Rapids 1, Charter Oak 1, Clear Lake 1, Council Bluffs 8, Davenport 8, Decorah 1, Dubuque 3, Fayette 1, Greene 2, Guthrie Center 1, Iowa City 1, Lytton

1, Manchester 1, Mason City 1, Muscatine 1, Nichols 1, Norway 1, Sac City 2, Shenandoah 1, Webster City 1. Measles: Council Bluffs 4. Scarlet fever: Bellevue 1, Cedar Rapids 1, Des Moines 1. Smallpox: Boone 11, Cedar Rapids 6, Cedar Falls 1, Davenport 7, Des Moines 4, Hazleton 1, Oskaloosa 3, Portsmouth 1, Searsboro 1. Syphilis: Brooklyn 2, Buffalo 1, Cedar Rapids 1, Council Bluffs 7, Davenport 5, Decorah 1, Dubuque 1. Whooping cough: Council Bluffs 1. In rural districts of the following counties: Diphtheria: Benton 1, Buena Vista 1, Keokuk 2. Scarlet fever: Crawford 1, Franklin 1, Lee 1, Webster 1, Winnebago 1, Winneshiek 1. Smallpox: Marshall 1, Pottawatamie 3.

Kansas.—St. Francis reports 1 case meningitis. State totals: Smallpox 97, diphtheria 15, scarlet fever 42, influenza 18.

Louisiana.—Poliomyelitis 1, encephalitis 1, typhoid fever 69 (41 delayed reports), smallpox 5, pellagra 11, leprosy 1, gonorrhea 133, syphilis 75, chancroid 14.

Maine.—Chancroid: Rumford 1. Chicken pox: Portland 2. Diphtheria: Bristol 2, Fairfield 1, Van Buren 1, Winslow 1, Bucksport 1. Gonorrhea, 34. Measles: Portland 1. Scarlet fever: Rockland 2, Forest City 2, Winslow 3, Portland 8. Smallpox: Van Buren 3, Columbia Falls 2, Topsham 1. Syphilis: 25. Tuberculosis: 12. Typhoid fever: Belfast 2, Portland 1, Van Buren 1, Fairfield 1, Augusta 1. Whooping cough: Freeport 4.

Massachusetts.—Unusual prevalence of whooping cough, Salisbury reporting 29 cases and Pittsfield 26 cases.

Minnesota.—Smallpox (new foci): Becker County (Detroit Township) 1, Kanabec County (Kanabec Township) 11, Ramsey County (New Canada Township) 8. Syphilis 56, gonorrhea 67, chancroid 4.

New Jersey.—Cases reported: Influenza 4, pneumonia 41. Small-pox reported from Willingboro Township (Burlington County) and Camden city (Camden County). No unusual prevalence of other diseases reported.

New York.—State reports exclusive of New York City: Typhoid fever 29, measles 310, scarlet fever 72, whooping cough 59, diphtheria 185, smallpox 5, of which in Oswego town 2, Onconta 1, Spencer 2; cerebrospinal meningitis 4, of which in Frankfort 1, Glen Cove 1, Roseton 1, Bedford 1; poliomyelitis, 1 case in Auburn; pneumonia 33. Voluntary reports: Syphilis 177, gonorrhea 29.

North Carolina.—State totals: Whooping cough 155, measles 104, diphtheria 16, scarlet fever 4, septic sore throat 2, smallpox 31, chicken pox 20, infantile paralysis 1, typhoid fever 105, epidemic meningitis 1, lobar pneumonia 3, cholera infantum 23, bacillary dysentery 8, paratyphoid fever 1, gonorrhea 118, syphilis 60, gonorrhea and syphilis 4, chancroid 3, syphilis and chancroid 2, gonorrhea and chancroid 2, balanitis 1.

Ohio.—Scarlet fever, additional cases: Cincinnati 21, Lima 42; new cases, Columbus 23. Smallpox, additional cases: Youngstown 17, Hamilton 8, Avon 7, Yellow Springs 14; new cases, Girard (Trumbull County) 8, Toronto (Jefferson County) 4. Diphtheria: Columbus 10 cases; additional cases from Cincinnati, 12.

Oregon.—Influenza: Portland reports 1 case and Hood River 4 cases.

Vermont.—No unusual prevalence or outbreak.

Virginia.—Smallpox: Norfolk 3, Rockbridge 1. Cerebrospinal meningitis: Norfolk 1.

Washington.—Unusual prevalence of contagious diseases reported. Smallpox: Seattle 16, Yakima 12. Scarlet fever: Seattle 14, Spokane 18, Othello 3.

West Virginia.—Diphtheria: Charleston 2, Elkins 1, Montgomery 1, New Martinsville 1. Measles: Beckley 2, Charleston 3, Charlestown 1, Fairmont 8, Keyser 1, Martinsburg 1, Morgantown 1, Sutton 1, Weston 7, Wheeling 1. Scarlet fever: Bluefield 2, Charleston 2, Fairmont 4, Martinsburg 4, Parkersburg 2, Wellsburg 1. Smallpox: Beckley 1, Bluefield 2, Charleston 1, Clarkesburg 1, Grafton 1, Wellsburg 3, Weston 10, Williamson 1. Typhoid fever: Charleston 1, Fairmont 1, Hinton 1, Morgantown 2, Wellsburg 1, Weston 1, Wheeling 1.

CEREBROSPINAL MENINGITIS.

State Reports for April and May, 1919.

	1	1	
Place.	New cases reported.	Place.	New cases reported.
Connecticut (May):		New York (April):	
Feirfield County-	1	Albany County-	1
Norwalk	2	Albany	1 1
Hartford County—		Chemung County— Elmira.	1
Hartford	1	Elmira	1 1
New Haven County— New Haven	1	Eric County—	1
New Haven	6	Buffalo	1 1
Waterbury	1	Lackawanna	1 3
•		Herkimer County— Newport	1
Total	10	Newport	1
		Necesii County—	1
Illinois (May):		Hempstead (town)	1
Cook County—		Hempstead	1 2
Chicago	17	Orange County— Newburgh.	1
Kane County—		Newburgh	2
Batavia	1	Suffalk County	1
	 	Islip (town)	1
Total	18	Westchester County— Dobbs Ferry	
		Dobbs Ferry	1
Louisiana (May):	1 1	Tarrytown	1 1
Madison Parish	! 1	North Tarrytown	
Orleans Parish	1	New York City	43
Vermilion Parish	1		
	<u> </u>	Total	60
Total	3	Non Namb (Man)	
N Tonner (Marr)		New York (May):	İ
New Jersey (May):	1	Chautauqua County— Jamestown	
Cumberland County Essex County		Erie County—	
Mercer County		Buffalo	
Middlesex County		Lackawanna	1 1
Passaic County	5	Omelde Country	· •
Somerset County	2 2 1	Utica	2
Union County		Orange County-	ے ا
ошон сошну		Orange County— Middletown	1
Total	16	Rensselaer County—	•
J U VQ1	10	Troy.	

CEREBROSPINAL MENINGITIS—Continued.

State Reports for April and May, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (May)—Continued. Westchester County— White Plains New York City Total West Virginia (May): Preston County	1 48 56	Wisconsin (May): Adams County. Columbia County. Milwaukee County Shawano County Walworth County.	1 8 1

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md Boston, Mass Bridgeport, Conn. Chicago, Ili Cleveland, Ohio Columbus, Ga Detroit, Mich Elgin, Ill Fond du Lac, Wis. Fort Worth, Tex Fresno, Calif. Greenville, S. C. Haverhill, Mass Ironwood, Mich	3 1 1 3 2 1 1	1 1 1	Newark, N. J. Newport News, Va New York, N. Y Philadelphia, Pa. St. Louis, Mo. Salem, Mass Waco, Tex Wattham, Mass	1 2 1 7 1	1 1 4
Kansas City, Kans	1		Yonkers, N. Y	1	•••••

CHANCROID.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case		Caso	
Gas and Flame school zone, Ga. and Ala			
Camp Gordon zone, Ga	2	Camp Polk zone, N. C	1

DIPHTHERIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case		Case	
Camp Merritt zone, N. J			
Portsmouth and Norfolk County health dis-		Wilmington sanitary district, N. C	1
trict. Va	2		

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

GONORRHEA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	ses.	l Cas	3 65.
Fayetteville sanitary district, N. C	6 12 9 6 13 3	Camp Polk zone, N. C	1 1 12

INFLUENZA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

LEPROSY.

San Francisco, Calif., Week Ended June 7, 1919.

During the week ended June 7, 1919, one death from leprosy was reported in San Francisco, Calif.

LETHARGIC ENCEPHALITIS.

State Reports for May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois: Cook County— Chicago Du Page— Bloomingdale Fayette County— Ramsey Johnson County— Tunnel Hill township Bath township Ogle County— Oregon	1 1 1 1 1	Illinois—Continued, Sangamon County— Springfield Wayne County— Fairfield. Total. Louisiana Rhode Island	1 1 8 1

MALARIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas		Cas	
Gas and Flame school zone, Ga. and Ala	5	Camp Travis zone, Tex	2
Gulfport health district, Miss	35 l	Wilmington sanitary district, N. C	2

State Reports for May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Florida: Alachua County Bay County Cofumbia County Duval County Jacksonville Escambia County Franklin County Gadsden County Hillsboro County Tampa Holmes County Levy County Marion County Suwannee County Suwannee County Taylor County Total Illinois: Perry County Duquoin Louisiana: Acadia Parish Alen Parish Ascension Parish Ascension Parish Ascension Parish	11 14 12 11 22 3 5 9 11 12 22 23 38	Louisiana—Continued. Calcasieu Parish Concordia Parish DeSoto Parish Grant Parish Iberville Parish Jefferson Parish Lafayette Parish Morehouse Parish Orleans Parish Pointe Coupee Parish St. Charles Parish St. James Parish St. John Parish St. Martin Parish St. Martin Parish St. Tammany Parish Tangipahoa Parish Washington Parish Washington Parish Washington Parish Total New Jersey: Bergen County Essex County Passaic County Passaic County Somerset County Somerset County Somerset County	1 6 3 3 2 1 1 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1

MALARIA—Continued.

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place,	Cases.	Deaths,
Birmingham, Ala Dedham, Mass. Detroit, Mich. Houston, Tex. Little Rock, Ark Long Beach, Calif. Long Branch, N. J	1 1	1 1	Newark, N. J. Richmond, Va. San Antonio, Tex. Savannah, Ga. Tuscaloosa, Ala Wilmington, N. C. Winston-Salem, N. C.	3 2 3 1	1 1 2

MEASLES.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

° Cas	es.	Cases.
Gas and flame school zone, Ga. and Ala Camp Gordon zone, Ga Gulfport health district, Miss Portsmouth and Norfolk County health district, Va	6	
		1.1 11 140

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

PELLAGRA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

	es.		
Gas and Flame school zone, Ga. and Ala Gulfport health district, Miss	1 2	Pieric Acid plant zone, Ga	1

State Reports for May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Florida: Escambia County Franklin County. Gadsden County Manatee County Putnam County Seminole County Walton County Total Louisiana: Bienville Parish Caddo Parish Claiborne Parish De Soto Parish La Salle Parish	2 4	Louisiana—Continued. Morehouse Parish Natchitoches Parish Richland Parish St. John the Baptist Parish Total. Rhode Island: Pawtucket West Virginia: Lewis County Mingo County Total	11 11 2 11 2 1 3

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga. Birmingham, Ala. Charleston, S. C. Charlotte, N. C. Colorado Springs, Colo. Danvers, Mass.		2 2	Fort Worth, Tex Little Rock, Ark Pasadena, Calif. Portsmouth, Va Richmond, Va. Riverside, Calif.	1	1

PNEUMONIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case		Cases.
		Camp Upton zone, N. Y
Gulfport health district, Miss	1	

City Reports for Week Ended June 7, 1919.

	Lo	bar.	Allf	orms.		Lo	bar.	Allf	orms.
Place.	Cases.	Deaths.	Cases.	Deaths.	Place.	Cases.	Deaths.	Cases.	Deaths.
Akron, Ohio. Anniston, Ala Appleton, Wis. Atlanta, Ga Baltimore, Md Bellaire, Ohio Belleville, N. J. Benton Harbor, Mich. Bloomfield, N. J. Benton Harbor, Mich. Bloomfield, N. J. Cambridge, Mass. Cambridge, Mass. Cambridge, Mass. Camden, N. J. Chicago, Ill. Cleveland, Ohio. Columbus, Ga Corpus Christi, Tex. Dayton, Ohio. Duluth, Minn. Easthampton, Mass. Elmira, N. Y. Fall River, Mass. Fitchburg, Mass. Hackensack, N. J. Hoquiam, Wash. Jamestown, N. Y. Janesville, Wis. Kansas City, Kans Kansas City, Kons Kansas City, Kons Kansas City, Mo. Lackawanna, N. Y. Little Rock, Ark Lousville, Ky. Lowell, Mass.	2 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	3 10 1 1 1 1 2 6 6	1 1 1 162 17 1 1 1 1 5 5 1 2 2 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	149	Lynn, Mass. Manchester, N. H. Morgantown, W. Va. Mount Vernon, N. Y. Natick, Mass. Newark, N. J. New Bedford, Mass. Newburgh, N. Y. Newburyport, Mass. New Orleans, La. Newport, Ky. Newfon, Mass. New York, N. Y. North Adams, Mass. Northampton, Mass. Northampton, Mass. Philadelphia, Pa. Pittsfield, Mass. Pontiac, Mich. Rochester, N. Y. Rome, N. Y. San Antonio, Tex Sandusky, Ohio. San Francisco, Calif. Santa Barbara, Calif. Sanuts, Mass. Sault Ste. Marie, Mich. Schenectady, N. Y. Somerville, Mass. Springfield, Mass. Trenton, N. J. Waco, Tex. Winston-Salem, N. C. Worcester, Mass.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3 2 2 1 1 3 3 1 1 2 29 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	19	1222

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for April and May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Florida (May): Pensacola Illinois (May): Cook County— Chicago Chicago Heights.	1 ————————————————————————————————————	New Jersey (May): Bergen County Hudson County. Morris County. Total	1 2 1
Total	13	New York (April): Broome County— Union (town)— Dutchess County— Poughkeepsie (town).	
Total Michigan (May): Berrien County— Sodus Township Three Oaks Township	2 1 1	Herkimer County— Herkimer Westchester County— North Tarrytown New York City	1
Total	2	Total	(

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

State Reports for April and May, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (May): Dutchess County— Poughkeepsie. Orange County— Middletown. Schenectady County— Princetown (town). Suffolk County— Brookhaven (town). New York City. Total. Rhode Island (May): East Providence.	1 1 1 3 .7	West Virginia (May): Logan County Wood County. Wyoming County. Total. Wisconsin (May): Kenosha County. Milwaukee County. Total.	9

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Bluefield, W. Va	1	1	New Orleans, La	1	•

RABIES IN ANIMALS.

La Crosse, Wis., Lawrence, Kans., Rochester, N. Y.

During the week ended June 7, 1919, cases of rabies in animals were reported as follows: La Crosse, Wis., 1; Lawrence, Kans., 2; Rochester, N. Y., 1.

SCARLET FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	es.	Cases.
		Camp Sherman zone, Ohio 1
Gulfport health district, Miss	2	Wilmington sanitary district, N. C 1
Portsmouth and Norfolk County health dis-		
trict, Va	3	

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

SMALLPOX.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases			
Gas and Flame school zone, Ga. and Ala	1	Camp Polk zone, N. C	3
Camp Gordon zone, Ga	9	Portsmouth and Norfolk County health dis-	
Camp Jackson zone, S. C.	1	trict, Va	4

SMALLPOX—Continued. State Reports for April and May, 1919—Vaccination Histories.

			1	Vaccination 1	nistory of cas	es.
Place.	Now cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.	never suc-	Vaccination history not obtained o uncertain.
Florida (May):			ì——			
Duval County	2			.	. 2	
Jacksonville Escambia County	2 1				ii	1 : 3
Hillsboro County	1				: i	
Tampa	1 3	• • • • • • • • • • • • • • • • • • • •	[·	2] 1
Total	10			1	6	
	10			1	-	
lichigan (May): Isabella County—					l	
Broomfield Township	4			. 1	2	1
Coe Township	9 6				9 6	
Deerfield Township Nottawa Township Rolland Township	. 2				2	
Rolland Township	8				. 8	
Snerman Townsnip	2				. 2	
Vernon Township Jackson County—	. 1	• • • • • • • • • • • • • • • • • • • •			1	
Jackson	4				3	1
Kalamazoo Township	8		4		4	
Kalamazoo	11		<u> </u>		11	
Richland Township	3				3	
Kent County— Grand Rapids	2				2	
Wyoming Township	6				6	
Keweenaw County-		_		l		-
Allonez Township Lapeer County—	50	••••••	1	14	35	••••••
Lapeer County— Elba Township. Lenawee County—	1				1	· · · · · · · · · · · · · · · · · · ·
Fairfield Township	3	•••••		1	2	
Palmyra Township	2 1	•••••			2 1	• • • • • • • • • • • • • • • • • • • •
Marquette County—	2	•••••			_	••••••
Marquette Midland County—		•••••	•••••		2	•••••
Lee Township Monroe County—	1	••••••	•••••	• • • • • • • • • • • • • • • • • • • •	1	• • • • • • • • • • • • • • • • • • • •
Monroe Muskegon County—	2		••••••		2	
Muskegon Heights Oakland County—	2				1	1
Pontiac	3				3	· · · · · · · · · · · · · · · · · · ·
Ottawa County— Georgetown Township	4		3		1	
Van Buren County— Covert Township	1			1		
Saginaw County— Saginaw	1			. 1	i	
Tittabawassee Township	il				1	· · · · · · · · · · · · · · · · · · ·
Allegan County— Plainwell.	3			1	2	
Antrim County— Mancelona.	1			_	1	
Barry County	_				i.	
Assyria Township	2	• • • • • • • • • • • • • • • • • • • •	•••••		2	••••••
Barry Township Calhoun County—	1	• • • • • • • • • •	•••••	•••••	1 -	••••••
Battle Creek	15			2	13	· · · · · · · · · · · · · · · · · · ·
Garfield Township	1				1 .	
Summerneia Township	1 .				ī ļ.	•••••
Clinton County— Bath Township	8			1	7.	•••••
Dewitt Township	4	••••••	• • • • • • • • • • • • • • • • • • • •	2	2 -	•••••••
Eaton County— Benton Township	2			. 	2 .	•••••
Delta Township Grand Ledge	4			1	3 .	• • • • • • • • • • • • • • • • • • • •
Potterville	5 4	•••••••	• • • • • • • • • • • • • • • • • • • •	·····i	5 .	•••••
Windsor Township	i 1	••••••	••••••	- 1	0 -	••••••

SMALLPOX—Continued.

State Reports for April and May, 1919—Vaccination Histories—Continued.

	Ī			Vaccination l	nistory of cas	es.
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	nated more	Number never suc- cessfully vaccinated	Vaccination history not obtained or uncertain.
Michigan (May)—Continued. Genesee County—						
Flint	4		.	-	. 4	
Gogebic County— Bessemer Township	3	ļ	.	.	. 2	1
Gratiot County— Alma	8			.	. 8	
Ithaca Houghton County—	6			· ·····	6	
Adams Township	6		.	.	6	
Houghton	3			.	······	3
Portage Township South Range	16		6	i	9	
Ingham County— Delhi Township	1				1	
Lansing	60		1		58	i
Lansing Meridian Township	4			.	4	
Stockbridge	1			. 1	i	
Shiawassee County—	_				_	
Byron	1 6		·····i	.	1 5	
Laingsburg New Haven Township	1		1		ı	
Perry	1				1	
woodnull Township	1				1	
St. Clair County— Mussey Township	1		1			
Mussey Township Washtenaw County—	2		İ		2	
Ann Arbor Wayne County—	Z					
Detroit Highland Park	19 1		1 1		15	3
Tetal	339		19	28	280	12
			=			
New Jersey (May): - Atlantic County	1		İ		1	
Burlington County	17			3	14	
Camden County	3			i	3 5	• • • • • • • • • • • • • • • • • • • •
Cape May County Essex County	6 1	• • • • • • • • • • • • • • • • • • • •			ĭ	
1				4	24	
Total	28					
New York (April): Delaware County—						
Frankiin (town)	1	• • • • • • • • • •			1	• • • • • • • • • • • • • • • • • • • •
Erie County— Buffalo	3					3
Amherst (town) North Collins (town)	1 1				.1	
North Collins (town) Monroe County—	12	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1	11	••••••
RochesterOtsego County—	1	•••••			1	
Schenevus	1 8				1	8
New York City		•••••				
Total	27			1	15	11
New York (May): Chemung County—						
Elmira Heights	1				1	
North Collins (town)	11			1	9 2	1
North Collins Niagara County— Niagara Falls	3	••••••	••••••	1	Ī	,
Niagara Falls Orange County— Blooming Grove (town)	1	••••••	•••••		1	•••••••
	. 13	'		'	17.	•••••••
118669°—19——3			-			

SMALLPOX—Continued. State Reports for April and May, 1919—Vaccination Histories—Continued.

			\	accination h	istory of cas	es.
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never suc- cessfully vaccinated.	Vaccination history not obtained o uncertain.
New York (May)—Continued. Otsego County—					·	
Oneonta	1	l	1			
Maryland	5				5	
Schenevus	2				2	
Rockland County—	_	1	1		_	
Orangetown (town) Tioga County—				1	- :	
Spencer (town)	1				1	l
New York City	1					
Total	28		1	3	22	
Visconsin (May):						
			1			
Adams County	1				-1	
Ashland County						
Barron County			6	5	4	
Brown County				4		
Chippewa County			1		9	
Clark County				2	. 6	
Columbia County					1	
Dane County	6		4		2	
Douglas County	14		6	4	4	
Ean Claire County	4					
Fond du Lac County	6					
Grant County						`
Green County.						• • • • • • • • • • •
Green Lake County			2	3	3	
Jefferson County	2					
Kenosha County						
La Crosse County					2	2
					6	• • • • • • • • • •
Manitowoc County					9	• • • • • • • • • • •
Marinette County				2	3	••••••
Milwaukee County						5.
Monroe County			1 [
Outagamie County	4		1			3
Portage County					3	2
Price County	3				2	1
Racine County					 .	
Rock County					2	
Taylor County						14
Waukesha County					1	
Waupaca County					9	· · · · · · · · · · · · · · · ·
Winnebago County	62		13	15	10	24
Wood County	4				4	
Total	311		71	35	85	120

State Reports for May, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths
Illinois: Adams County— Lima Township. Alexander County— Tamms. Bond County— Burgess Township. Cass County— Beardstown. Champaign County— Champaign County— Champaign Township. Sadoms Township. Urbana Urbana Township. Christian County— Stonington	1 4 1 1 5 1 1 1 2		Illinois—Continued. Cook County— Chicago	10 2 3 6 2 1 4 6	

SMALLPOX—Continued.

State Reports for May, 1919—Continued.

Henry County— Kewanee	Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Henry County— Kane County— Teeport Tee	nois—Continued			Illinois—Continued.		
Rewance	Henry County—		1		1	i
Rock City	Kewanee	1		Freeport	. 1	
Dundee Township	Kane County		1	II Rock City	. 1	
Eigin	Aurora			Tazewell County—		1
Hampshire	Elgin			Groveland Township		
Condend	Hampshire			Pekin	35	
Galesburg 32	Knox County—	_		Union County—	ł	1
Rio Township. 10				Cobden		
Mendota				Vermilian County	3	
Mendota	Le Selle County—	10		Catlin Township	2	
Mendota	Cedar Point	15		Danville Township	. <u> </u>	
Amboy	Mendota			Fairmount	1 11	
Sublette Township	Lee County—	_	l	Vance Township	1	
Sublette Township	Amboy				1 .	i
Fairbury	Diron			Weshington County		
Fairbury	Sublette Township			Du Bois Township	4	
Fairbury	Livingston County—	_	1	White County-	1	1
Macon County	Fairbury	2		Indian Creek Town-		
Macon County	Logan County—			ship		
Macoupin County— 2	Elkhart Township	1		Maunie		
Macoupin County— Sawyerville. 28 Sterling. 3 3 Madison County— East Alton. 12 Jolict	Decetur	9		Whiteside County—		1
Sawyerville		-		Eria		1
Madison County—	Sawyerville	28		Sterling	3	
Marion County	Madison County—		l	Will County	i .	l
Marion County—	East Alton			Joliet	4	
Odin		15		Williamson County	-	
Mason County—	Odin	1		Johnston City	1	
Havana 3	Salem			Winnebago County-		1
Havana 3		_		Rockport	4	
McHenry County—	Havana			. Woodford County—		l
Woodstock	Mason City	1		El l'aso		
McLean County— Bloomington 9	Woodstock	9		Total	554	l
Bloomington 9	McLean County—	•		1		
Menard County—	Bloomington	9		Louisiana:		1
Mercer County—	Menard County—			Acadia Parish		
Aledo		2				
Avoyelles Parish 1 Beaurezard Parish 2 2 2 2 3 3 3 3 3 3	Mercer County—	7		Assumption Parish	4	
Preemption Township 4 Beauregard Parish 3	Greene Township			Avovelles Parish	1	
Seaton	Preemption Township			Begiregard Parish	2	
Yackson ville	Seaton	4		Bienville Parish		
Meredosia	Morgan County—			Coddo Porish		
Ogle County— 4 East Baton Rouge Parish. 14 Lynnville Township. 4 Evangaline Parish. 1 Rochelle. 1 Ibertalle Parish. 5 Peoria County— Jackson Parish. 1 Hollis Township. 1 Jefferson Parish. 1 Kingston Mines. 1 Jefferson Davis Parish. 2 Peoria. 42 Lafayette Parish. 2 Pulaski County— 2 Orleans Parish. 2 Allin Precinct. 17 Rapides Parish. 6 Randolph County— 1 St. Martin Parish. 1 Percy. 1 St. Martin Parish. 1 Richland County— St. Mary Parish. 9 Decker Township. 8 Tangipahoa Parish. 1 Noble Township. 1 Vermillion Parish. 4	Meredosia			Calcasieu Parish	10	
Rocnelle	Ogle County—	•		East Baton Rouge Parish.		
Rocnelle	Lynnville Township			Evangeline Parish	I	• • • • • • • • • • • • • • • • • • • •
Averyville	Rochelle	1		I Deria Parish	2	
Hollis Township	Peoria County—			Tackson Parish	ĩ	
Constraint Con	Hollis Township			Jefferson Parish	1	
Peoria 42 Lafayette Parish 20 Pulaski County— Orleans Parish 20 Allin Precinct 17 Rapides Parish 6 Randolph County— St. Martin Parish 1 Percy 1 St. Martin Parish 1 Richland County— St. Martin Parish 1 Decker Township 8 Tangipahoa Parish 1 Noble Township 1 Vermition Parish 4	Kingston Mines			Taffarman Davie Parish	2	
Allin Precinct	Peoria	42		Lafayette Parish	20	
Randolph County— Richiand Parish. 1	Pulaski County—			Orleans Parish	6	
Percy	Allin Precinct	17	• • • • • • • • • • • • • • • • • • • •	Richiand Parish	š	
Richland County— Decker Township	Percy Percy	1		St Martin Parish		
Noble Township 1 verification Factor 2 · · · · · ·	Richland County—	- 1		St. Mary Parish		• • • • • • • • • • • • • • • • • • • •
Noble Township 1 verification Factor 2 · · · · · ·	Decker Township		,	Tangipahoa Parish		•••••
The state of the s	Noble Township	1		Winn Parish	2	
Rock Island County— Coal Valley	Rock Island County—			W 1011 1 31 1511		
East Meline 1	Fost Meline			Total	131	
Rock Island 71	Rock Island					
Rural Township 1	Rural Township			Rhode Island:	i	
Sangamon County— Providence 1	Sangamon County—		- 1		1	• • • • • • • • • • • • • • • • • • • •
Auburn Township 1	Auburn Township		•••••••	1 i =		
St Clair County-	St Clair County—	-	••••••	West Virginia:	ı	
Rallevilla 1 Barbour County 1	Belleville	1		Barbour County		• • • • • • • •
Lebanon 1 Boone County 1	Lebanon	11		Boone County	1 '	••••••

SMALLPOX—Continued.

State Reports for May, 1919-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
West Virginia—Continued. Brooke County Fayette County Greenbrier County Harrison County Lewis County Logan County McDowell County Marion County Mercer County Mingo County Mingo County Monongalia County Monone County	3 6 7 5 14 24 2 79 20 28		West Virginia—Continued. Ohio County Preston County Raleigh County. Roane County Summers County Taylor County Upshur County Wayne County Wood County Wyoming County Total	33 5 11 3 1 16 4	

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths
Aberdeen, Wash Abilene, TexAkron, Ohio	1		Los Angeles, Calif	2	
bilene, Tex	2		Louisville, Ky	1	
Akron, Ohio	1	l	Madison, Wis	1	
Alliance Ohio	6		Marinette, Wis	6	
Alliance, Ohio Atlanta, Ga	17		Marshalltown, Iowa Milwaukee, Wis	3	
Austin, Tex	i		Milwaukee, Wis	25	
Battle Creek, Mich	î		Minneapolis, Minn	52	
Birmingham, Ala	5		Moline, Ill	3	
Bluefield, W. Va	4		Morgantown, W. Va	3	
Boise, Idaho	i		Muskogee, Okla	ĭ	
Boston, Mass	i		Muskogee, Okla Newport News, Va	6	
Boulder, Colo	4		New Orleans, La	Ă	l
Butte, Mont	i		Norfolk, Va.	- 1	
ledar Rapids, Iowa	13		Norwood, Ohio	i	
	13		Oakland, Calif	2	
hanute, Kans			Oklahoma City, Okla	16	
Charlotte, N. C Cheyenne, Wyo	1		Omaha Nobe	24	
neyenne, wyo	3		Omaha, Nebr	3	
Chicago, Iil	2		Parsons, Kans		
Cincinnati, Ohio	6		Pekin, Ill	11	
	11		Peoria, Ill	1	
Colorado Springs, Colo	4		Pocatello, Idaho	1	
Columbia, S. C	4		Pontiac, Mich	3	
Columbus, Ga	3		Portland, Oreg	47	
Connellsville, Pa	1	1	Portsmouth, Ohio	2	
Council Bluffs, Iowa	1	1	Racine, Wis	15	
Dallas, Tex	10		Roanoke. Va	9	
Dallas, Tex Danville, Ill	1		Rockford, Ill	10	
Davenport, Iowa			Rock Island, Ill	12	l
Denver, Colo	7		St. Joseph. Mo	23	
Detroit, Mich	10		St. Louis, MoSt. Paul, Minn	1	
Dealership Miner	- 6		St. Paul. Minn	11	
Durham N C	ĭ		Salem Oreg	1	
Propost Wach			Salt Lake City IItah	8	
Populi Do	i		Salem, Oreg Salt Lake City, Utah San Diego, Calif	ï	
Fond on Loc Wie	2		San Francisco, Calif	2	•••••
Fort Warms Ind	3		San Jose, Calif.	30	••••••
Onthin, Min. Durham, N. C. Everett, Wash. Fornell, Pa Fornd du Lac, Wis. Fort Wayne, Ind. Fort Worth, Tex	5		Soottle Wesh	12	
Pominehom Moss			Seattle, Wash	3	
	3		South Bend, Ind	i	
Falesburg, Ill			Spartanburg, S. C	i	••••••
rand Rapids, Mich			Spokane, Wash	i	••••••
Freat Falls, Mont	5		Comingfold Ohio	i	••••••
Ioquiam, Wash	3		Springfield, Ohio Stillwater, Minn	2	••••••
iouston, Tex	1		Sumwater, Millin		
iutchinson, Kans			Superior, Wis. Tacoma, Wash	- 4	••••••
ndianapolis, Ind	4		Tacoma, Wash	11	
Kalamazoo, Mich			1 11mm. Unio	1	•••••
Cansas City, Kans	2		Topeka, Kans	2	
Concor City Ma	4		Topeka, Kans Tulsa, Okla	3]	
Cnoxville, Tenn	1		I Iltica N V	1	
kokomo. Ind	2		Walla Walla, Wash	1	
afayette, Ind	4		Walla Walla, Wash Washington, D. C	5	
exington, Ky	ī		Wichita, Kans	9	
incoln, Nebr	12		Winston-Salem, N. C	5	
ittle Rock, Ark	2		Yakima, Wash	7	
ogansport, Ind	าเ		Youngstown, Ohio	19	
	3				
ong Beach, Calif	3		1	1	

SYPHILIS.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases			s es.
Fayetteville sanitary district, N. C	3	Camp Polk zone, N. C.	1
Gas and Flame school zone, Ga. and Ala 1	13	Camp Sherman zone, Ohio	1
Camp Jackson zone, S. C	8	Wilmington sanitary district, N. C	3
Picric Acid plant zone, Ga	2		

TETANUS.

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md	1	1 2	Dedham, Mass Detroit, Mich Savannah, Ga	1	1 1

TUBERCULOSIS.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases	3.	Cas	303.
Camp Gordon zone, Ga			
Guifport health district, Miss			
Camp Jackson zone, S. C			
Camp Lee zone, Va			
Picric Acid plant zone, Ga	1	Wilmington sanitary district, N. C	4
Camp Polk zone, N. C	1		

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

TYPHOID FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case	95.	Cas	.
Fayetteville sanitary district, N. C	i '	Picric Acid plant zone, Ga	3
	1	Camp Polk zone, N. C	2
Camp Gordon zone, Ga	1	Portsmouth and Norfolk County health dis-	
Gulfport health district, Miss			5
Camp Jackson zone, S. C	1	Wilmington sanitary district, N. C	2
Camp Lee zone. Va			

State Reports for April and May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Connecticut (May): Fairfield County— Bridgeport Danbury Norwalk Shelton Hartford County— Manchester Litchfield County— Barkhamsted Morris Middlesex County— Saybrook New Haven County— Meriden New Haven Orange Waterbury	1 2 3 3 1 1 1 1 1 1 9	Connecticut (May)—Continued. New London County— New London Waterford. Total. Florida (May): Alachua County. Bradford County. Citrus County. Duval County— Jacksonvile. Escambia County. Pensacola. Gadsden County. Hillsborough County.	29 11 129 11 11 11 8 3 11 3

TYPHOID FEVER—Continued.

State Reports for April and May, 1919-Continued.

Place.	New cases reported.	Place.	New case reparted																						
lorida (May)—Continued.		Michigan (May)—Continued.																							
Lafavette County	1	Berrien County—	Ī																						
Madison County	1	Eau Claire.																							
Monroe County-		Clinton County—																							
Key West	5 2	Dewitt Township																							
Orange County	• 1	Victor Township	1																						
Palm Beach County	l i	Genesee County— Flint																							
Pinellas County.	3	Grand Traverse County—	l																						
Putnam County		Traverse City	l																						
Sumter County		Ingham County—	l																						
Taylor County		Ingham Township	l																						
Volusia County		Lansing.	l																						
volusia (Junty		Williamston Township	ł																						
Total	49	Ionia County—	į .																						
	- 10	Ronald Township	l																						
linois (May): Coles County—		Isabella County—																							
Mattoon	4	Nottawa Township	1																						
Cook County—	7	Kalamazoo County—	i																						
Chicago	13	Kalamazoo	l																						
Lake County—	1	Kent County—																							
Lake Forest	1	Spencer Township																							
Marion County-		Wyoming Township																							
Alma	1	Muskegon County—																							
Odin	l ī	Muskegon Heights																							
Morgan County	_	Oakland County—																							
Jacksonville	. 2	Troy Township																							
Randolph County—	_	Ottawa County—																							
Randolph County— Baldwin	1	Holland																							
Rock Island County-	-	Saginaw County—																							
Rock Island County— Rock Island	1	Saginaw																							
Schuyler County—	_	Saginaw																							
Camden	2	Ann Arbor																							
Camden Township	2	3.1111 3.11001																							
Stephenson County—	_	Total	2																						
Freeport	1	New Jersey (May):																							
Vermilion County—	-	Atlantic County																							
Danville Township	1	Bergen County																							
Will County—		Buelington County																							
New Lenox Township	1	Burlington County Cumberland County																							
Williamson County-		Essex County																							
Johnston City	1	Gloucester County																							
Johnston City		Hudson County																							
Total	32	Hunterdon County																							
miciana (May)		Mercer County																							
ouisiana (May): Allen Parish Ascension Parish	3	Monmouth County																							
Agengion Parish	ĭ	Salem County																							
Assumption Parish	ī	Union County																							
Beauregard Parish	3																								
Bienville Parish	i	Total	8																						
Caddo Parish	2	2	2	2	2	2	2	$ar{2}$	2	2	3 1 2 2	2	2	2	2	Ž	2	2	2	2	2	$ar{2}$	2	New York (April):	
Calcasieu Parish	2	Albany County—																							
Catahanla Parish	2 9	Albany																							
East Baton Rouge Parish	9	Alleghany County																							
East Feliciana Parish	1	Hume (village)																							
Franklin Parish	1	Wellsville (town)																							
Theria Parish	1	Broome County-																							
Iberville Parish	2	Maine (town)																							
Lafayette Parish	1	Cattaraugus County—																							
Lafourche Parish	1	Olean																							
Lincoln Parish	2	Ischua (town)																							
Livingston Parish	1	Chautauqua County—																							
Madison Parish	1	Ellington (town)																							
Orleans Parish	12	Chemung County—																							
Pointe Coupce Parish	2	Southport (town)																							
St. James Parish	1	Columbia County—																							
St. John Parish	2	Greenport (town)																							
St. Landry Parish	1	Cortland County																							
St. Martin Parish	9	Taylor (town)																							
St. Mary Parish	3	Dutchess County—																							
Tangipahoa Parish Vermilion Parish Washington Parish	1	Fishkill (town)																							
Vermilion Panish	8	Erie County—																							
Washington Parish	1	Buffalo																							
Winn Parish	1	Essex County—																							
		Keene (town)																							
Total	76	Franklin County—																							
		Hurba (town)																							
chigan (May):		Durko (town)																							
ichigan (May): Barry County—		Burke (town)																							
ichigan (May): Barry County— Nashville Bay County—	1	Saranac Lake (village) Malone (town) Greene County—																							

TYPHOID FEVER—Continued.

State Reports for April and May, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (April)—Continued.		New York (May)—Continued. Ningara County—	
Herkimer County— Herkimer (town)	1	Lockport	1
Jefferson County—	1 -	Lockport. Oneida County—	1 *
Watertown	1	Rome. Ontario County—	1
Adams (town)	. 1	Ontario County— Geneva	
Wilna (town)	1	Geneva.	1
Madison County— Eaton (town)	1	Orange County— Newburgh Oswego County—	1
Monroe County—	•	Oswego County—	
Rochester	2	Oswego.	6
Montgomery County—	i	Oswego. Putnam County—	1
Amsterdam (town)	1	Brewster	1
Oneida County—		Rensselaer County—	١ .
Utica	1	TroyBrunswick (town)	2
Orange County—	1	St. Lawrence County—	
NewburghOswego County—		Canton (town).	1
Oswego. Hastings (town). Central Square. Richland (town).	1	Canton (town). Massena.	ī
Hastings (town)	2	Saratoga County—	l
Central Square	1	Mechanicville. South Glens Falls	1
Richland (town)	2	Soluti Giens Falls	1
Rensselaer County—	1	Schenectady County— Rotterdam (town)	1
Troy Brunswick (town)	l i	Schoharje County—	•
Rockland County—	•	Cobleskill	1
Clarkstown (town)	1	Steuben County—	
Saratoga County—	1	Corning	1
Mechanicville	1	Suffolk County—	
Schoharie County—	,	Babylon. Brookhaven (town). Central Islip State Hospital	1
Cobleskill (town)	1	Central Islin State Hospital	i
Steuben County—	-	Sullivan County—	-
Corning (town)	1	Sullivan County— Rockland (town)	1
Suffolk County—	_	Tompkins County—	
Brookhaven (town)	1	Ithaca	1
Islip (town)	2	Westchester County— Mamaroneck	1
Wayne County— Sodus (town)	1	Wyoming County—	-
Westchester County—	1	Arcade (town)	1
White Plains	1	Arcade (town) New York City	32
Yonkers.	2		
Yonkers Bronxville	1	Total	99
New York City	28	Rhode Island (May):	
Total	82	Providence.	1
New York (May):		West Warwick (town)	ī
Albany County—		J	
Albany	2	Total	2
Alleghany County—	ا م	West Virginia (May):	
Andover	2 1	Rarbour County	1
Broome County—		Berkeley County.	i
Johnson City	1	Berkeley County. Brooke County.	1
Cattaraugus County—	-	Calhoin Cointy	1
Franklinville	3	Clay County Doddridge County Hampshire County Harrison County	10
Chenango County—		Hompshire County	10
Oxford	1	Harrison County	2 2 1 3 1 3 1 3
Plattchurg	1	Jackson County	ī
Clinton County— Plattsburg Clinton (town)	î l	Harrison County Jackson County Kanawha County Marion County Morgan County Ohio County	3
Dutchess County—	- 1	Marion County	3
Fishkill (town) Hudson River State Hospita!	1	Morgan County	1
Hudson River State Hospital	1	Ohio County	3 1
Erie County—	7	Putnam County	3
Buffalo	3	Upshur County	2
Lackawanna Tonawanda	ĭ	Upshur County	1
SpringvilleBuffalo State Hospital	1	! <u>}-</u>	
	2	Total	37
Genesee County—	1	Wisconsin (May):	
Genesee County— Batavia	- 1	Wisconsin (May): Green Lake County	1
Catskill	2	Kenosha County	1 1
Jefferson County—	- 1	Lafayette County	2 1
Wilna (town)	4	Marathon County	1
Livingston County-	اا	Milwaukee County Winnebago County	1 6
Springwater (town) Nassau County—	3	** Imicoago County	· · · · · ·
Hempstead (town)	1	Total	12
	- 11		

TYPHOID FEVER—Continued.

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths
kron Ohio	1		Los Angeles, Calif.	4	
kron, Ohio nn Arbor, Mich	l î		Louisvilla Kv		
tlanta, Ga	1 2		Macon Ga	-	l
tlantić City, N. J.	1 1		Macon, Ga	1	1
altimore, Md	1 1	<u>2</u>	Minneapolis, Minn	. 1	L
irmingham, Ala	5		Nashville, Tenn	î	
oise, Idaho	1		New Orleans Lo	Ė	
suffalo, N. Y			New Orleans, La Newport News, Va New York, N. Y	ĭ	
Sutler, Pa			Now York N V	1	
harleston S.C		•••••	Norristown, Pa.	1	
narieston, S.C			Dobin III		
harlotte, N. C		1	Pekin, Ill	9	
hester, Pa	2	······	Pistobarah Do	9	
hicago, Ill	3		Pittsburgh, Pa	2	
hillicothe,Ohio	1		Pittsfield, Mass	1	
incinnati, Ohio	1		Port Chester, N. Y	1	
leveland, Ohio	1		Portland, Me	1	
offeyville, Kans	-1	ļ	Portland, Creg		
olumbia, S.C	2	1	Pottstown, Pa	1	
olumbus, Ga	1		Pueblo, Colo	1	
ovington, Ky	2		Reading, Pa	1	1
Ballas, Tex	2	4	Reno. Nev	6	
edham, Mass	Ī		Richmond Va	1	
etroit, Mich	7	4	Roanoke, Va	i	
ourham, N. C	9		Secremento Calif	-	
Imira, N. Y	1 7		Roanoke, Va Sacramento, Calif. Salt Lake City, Utah	· · · · · · · · · · · · · · · · · · ·	
Everett, Wash	•	i	Sanford Me	*	
airmont, W. Va	1 2		Sanford, Me		
all River, Mass	1 7		Saratora Springs N V	î	
all River, Mass	1 1	·····i		1	
ort Worth, Tex			Carrennah Co	:	
ramingham, Mass			Savannah, Ga Spartanburg, S. C.	•	
reat Falls, Mont	1		Spartanourg, S. C	4	
Iartford, Conn	1 :		Spokane, Wash Steelton, Pa	1	
lighland Park, Mich	1		Steetton, ra		
Iouston, Tex	1		Toledo, Ohio	1	
ronton, Ohio			Trenton , N. J	1	
lansas City, Kans	1		Troy, N. Y	Ī	
Cansas City, Mo	1		Tulsa, Ckla	2	
Cenosha, Wis	. 2		Tuscaloosa, Ala	1	
Cokomo, Ind	. 2		Waco, Tex	. 1	
ancaster. Pa	Ī		Wheeling, W. Va	1	
awrence, Mass	1 2		Wilmington, Del	1	
ima, Chio	l ī		Wilmington, N. C	4	
ogansport, Ind		i	Winston-Salem, N. C.		

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. State Reports for April and May, 1919.

	Ce	ses reporte	ed.
State.	Diph- theria.	Measles.	Searlet fever.
Connecticut (May). Florida (May). Illinois (May). Louisiana (May). Michigan (May). New Jersey (May). New York (April). New York (May). Rhode Island (May). West Virginia (May). Wisconsin (May).	180 17 668 40 554 566 2,082 2,287 53 51 147	878 68 5, 204 52 830 767 2, 057 3, 037 19 417 682	191 4 495 21 481 518 1, 233 1, 214 56 275 345

City Reports for Week Ended June 7, 1919.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Me	sles.	Sc. fe	arlet ver.	Tu cul	iber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak	15,926		<u> </u>	ļ	.]	ļ	3	ļ		
Adams, Mass	14, 406 93, 604	37	4		61		6	·	·	
	28, 433	5			. 2		ļ			
Allentown, Pa. Alliance, Ohio. Alton, Ill.	65, 109	3		ļ	75 2				4	·····
Alton, Ill	19,581 23,783		i		í					1
	24, 250	6	<u>-</u> -		····i		<u>;</u> -			. 1
Ann Arbor, Mich	15, 041 14, 326	13	1		l		l	<u> </u>	2	
Ansonia, Conn	16, 954	2								
Appleton, Wis. Arlington, Mass. Asbury Park, N. J. Asheville, N. C.	18, 005 13, 073	5 1					····i		····i	·····
Asbury Park, N. J	14,629	5			19				ļ	
Asheville, N. C.	25,656	9	;-				3			5
	22,008 196,144	69	1 2		ii ii		4		2	5 1 5
Atlantic City, N. J.	196, 144 59, 515 19, 776	69 5	1		6		1		6	
Attleboro, Mass	19,776 37,823	9							1	
Atlanta, Ga. Atlantic City, N. J. Attlebror, Mass. Auburn, N. Y. Austin, Tex. Bakersfeld, Calif. Baltimore, Md. Barre, Vt.	35, 612	. 9					2			3
Bakersfield, Calif	17, 543 594, 637	10 220	21	·····2	24		112	····i	25	19
Barre, Vt.	12, 401	4	21	2						13
Baton Rouge, La. Battle Creek, Mich Bayonne, N. J. Beatrice, Nebr.	12, 401 17, 544	4			3				2	
Battle Creek, Mich	30, 150 72, 204	• • • • • • •	3		20		····i		7	
Beatrice, Nebr	10 437	3 7								
Beaumont, Tex	28,851	7			····i	• • • • • •	i			
Bedtord, Ind	13, 749 10, 613	• • • • • • •					i			
Bediord, Ind. Bellaire, Ohio. Belleville, N. J.	14,575	6								
Belleville, N. J	12,797 18,547	5	1	•••••	3		i		2	
Beloit, Wis Benton Harbor, Mich Berkeley Colif	11,099	1			2		2			
Berkeley, Calif	60, 487 13, 892	10	3	. 1			• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • •
Rothlohom Do	14.353 1		4		48					
Beverly, Mass. Biddeford, Me. Billings, Mont. Binghamton, N. Y. Birmingham, Ala.	22, 128 17, 760 15, 123	8					•••••	• • • • • •		· • •
Billings Mont	15, 123	6	····i		i		3			-
Binghamton, N. Y	54, 864 189, 716 35, 951 767, 813	· 23	1		;		3 3 2	····i	1 5	1 6
Birmingham, Ala	35, 951	64 9	•••••		10					
Boise, Idaho	767,813	232	51	2	34		48		54	18
Boulder, Colo		••••••	•••••	•••••	····i		1		2	•••••
Braddock, Pa	1 14, 544				2					
Brazil, Ind	22,060 1 14,544 10,472 124,724	2	3	····i	2 2	•••••	2	····i		3
Bristol Conn	10.010	26 1	1							
Brockton, Mass	69, 152 33, 526	6 !	1		2		3	•••••	1	· · · · · ·
Brookline, Mass	10,984	11 2	1						3	
Brockton, Mass. Brookline, Mass. Brunswick, Ga. Buaralo, N. Y.	475, 781	142	49	4	86		25	• • • • •	28	12 1
Burlington, Iowa	25, 144 21, 802	6 10	····iˈ	•••••			2		1	i
Butler. Pa	28,677		3		i					
Burlalo, N. Y. Burlington, Iowa Burlington, Vt. Butler, Pa. Butte, Mont Cairo, Ill. Cambridge Moss	44,057 15,995	····· 7 -	2	•••••			1	•••••	2	·····i
Cambridge, Mass	114, 293	34	6		10				9	$\tilde{3}$
Camden, N. J.	114, 293 108, 117 13, 674		3				3		3	• • • • • •
Canton, III	13, 674 62, 566	4 9			6	::::::				· · · · · ·
Canton, Ohio	11 14R		2		19		1 .	····- ·	····-	• • • • •
Carlisle, Pa. Cedar Rapids, Iowa.	10, 795 38, 033		···i		19	····				
	11.838	2			2		1 2			
Chambersburg, Pa	12,475 15,052		•••••	•••••	1 .		z -		····· ·	i
Chambersburg, Pa. Champaign, Ill. Chanute, Kans.	12,968 61,041	3 2								···· <u>·</u>
Charleston, S. C.	61,041	23		!.	1.	! .	!-		1	, 3

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mes	ısles.		rlet		ber- osis.
City	(estimated by U.S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Charleston, W. Va	31,060 40,759	2 10			2 8		1		2	1
Chalses Mass	48, 405	11	3				3		2	
Chester, Pa Cheyenne, Wyo Chicago, Ill	40,759 48,405 41,857 111,320 2,547,201 29,950		1		2		1			
Chicago, Ill	2,547,201	668	86	5	987	ii	63	ï	296	9
Unicopee, Mass	29,950	7	2	 -					2	3
Chilicothe, Ohio	414. 248	120	8		40	2	45	ï	23	20
Clarreland Ohio	692, 259	178	39	8	96	4	11		40	22
Clinton, Jowa Clinton, Mass Coatesville, Pa Coffeyville, Kans Cohees, N. Y Colorado Springs, Colo	27,678 1 13,075	2	2				1			
Coatesville, Pa	14,998				i					
Coffeyville, Kans	18,331 25,292		····i		1		····i		2	
Colorado Springs, Colo	38, 965	7 7	l						2 6 5 3 7	3
Columbus, Ga	26,306	13			19		1 3		3	6
Concord N H	220, 135 22, 858	63 7			16		i			
Connellsville, Pa	15,876								2	
Council Bruns, lows	31,838 59,623	4 15	2		3		4		2	•••••
Covington, Ky	26,773	8	l						2	ī
Cumberland, Md	26,686	2	1 2	ļ	12 2		2		1 5	
Dallas, Tex	129, 788 22, 931	46	2		2		₂	•••••	ĭ	
Danvers, Mass	10 037		1						1	····i
Cumberland, Md Dallss; Tex Danbury, Conn Danvers, Mass Danville, Ill.	32, 969 49, 618 128, 939	1	1 1	'	3			•••••	1	1
Davenport, Iowa. Dayton, Ohio. Dedham, Mass. Denver, Colo. Detroit, Mich. Dover, N. H.	128,939	33	. .		16			•••••	3	2
Dedham, Mass	10,618	1		····i	22	•••••		•••••		15
Denver, Colo	268, 439 619, 648	64 197	43	2	149		6 52	····i	25	13
Dover, N. H	619,648 13,276	5			l					1
Du Bois, Pa Dubuque, Iowa	14,994 40,096	• • • • • • • •	····· <u>2</u>	•••••	1		5	•••••	•••••	••••2
Darlesth Minn	97.077	12	2 2		49	1			4	ī
Dunmore, Pa	21,286	6	2	•••••			1	•••••	i	
Dunmore, Pa. Durham, N.C. East Chicago, Ind. East Cleveland, Ohio	26, 160 30, 286	7								
East Cleveland, Ohio	13,864				3				····i	•••••
East Orange, N. J	30, 854 43, 761	8	1 2	•••••	2 2		····i		3	i
East Providence, R. I	18,485		ļ <u>.</u>		1		1			
Eau Claire, Wis	18,887 28,562	7	····i	•••••	11 7		2 1	•••••	•••••	·····2
Elizabeth. N. J.	88,830		3	i			6		6	6
Elmifa, N. Y	88,830 38,272 69,149	12 37	2	•••••	2	•••••	4			1 5
Eau Ciaire, Wis. Elgin, Ill. Ellizabeth, N. J. Etmira, N. Y. El Paso, Tex. Englewood, N. J. Erie, Pa. Euraka, Cal. Evanston, Ill. Everett, Mass. Everett, Wash. Fairmont, W. Va.	12,603	31			2					
Erie, Pa	76, 592		4		2 3		2	•••••	10	•••••
Euraka, Cal	15,142 29,304	8	i		57					•••••
Everett, Mass	40,160	ğ	ī				6		.1	
Everett, Wash	37, 205 16, 111				···ii		7	• • • • • •	12	•••••
Fall River. Mass	129,828	31	4		44	2	1 2		14	2
Fairnont, W. Va	17,872	3	1		3 1		2	•••••	• • • • •	•••••
Farrell, Pa Findlay, Ohio	10, 190 14, 858	7			38	i				•••••
Fitchburg, Mass	42,419	11					;-		2	1
Flint, Mich. Fond du Lac, Wis	57,386 21,486	8 9	3		2	•••••	1 4	····i		
Fort Dodge, Iowa	91 020	1		i	₂	•••••				•••••
Fort Dodge, Iowa	10,564	3 22	3	•••••	13	•••••	•••••	•••••	•••••	•••••
Fort Wayne, Ind	109, 597	18				•••••	1 3		1 3	•••••
Kramingham, Mass	14, 149	7	2	•••••	4	•••••	3	•••••	3	•••••
Frederick, MdFreeport, Ill	10,564 78,014 109,597 14,149 11,225 19,844	6		•••••	5		2			•••••
Fremont, Unio	11,001	1	2	•••••			•••••		••••••	······ ₂
Fresno, Calif	36,314	10	' ' د	·······	······	•••••	••••••	•••••	•••••	•

¹ Population Apr. 15, 1910.

	July 1, 1917	Total deaths	Diph	theria.	Mes	asles.	S · s	arlet ocr.		ber- o∘is.
City.	(estimated by U.S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Galesburg, Ill	24,629	.5			13	ļ	ļ			<u>.</u>
Galveston, Tex	42,650 13,915 22,314	11								2
Gloversville, N. Y	22,314				29				1	
Grand Rapids, Mich	132.861	35 3			24		1 9		2	
Greely Colo	1 13,948 11,942	6	1::::::				9			
Greely Colo	11,942 30,017	9								
Greenfield, Mass	12,251	. 4	1		1					
Greenboro, N. C. Greensburg, Pa. Greenville, S. C. Greenwich, Conn. Hackensack, N. J.	20, 171 15, 881	,	i		3		····i		• • • • •	Z
Greenville, S. C	18, 574 19, 594	2							1	
Greenwich, Conn	19,594					• • • • • •	;-			1
Hackensack, N. J	17,412 12,578	5 1					1		1	
Harrisburg, Pa	73, 276		1		185		15			
Harrison, N. J.	73, 276 17, 345		2		<u>.</u> .	• • • • • •	2		1	
Haokensack, N. J. Hancock, Mich. Harrisburg, Pa. Harrison, N. J. Hartford, Conn. Haverhill, Mass. Hazelton, Pa. Hibbing, Minn. Highland Park, Mich. Hoboken, N. J. Houston, Tex. Hudson, N. Y. Hutchinson, Kans. Independence, Mo. Indianapolis, Ind.	112,831 49,180	33 25	5	1	2 2	• • • • • •	1	•••••	4	2
Hazelton, Pa	28, 981				8					
Hibbing, Minn	17, 550		1		1		3			
Highland Park, Mich	33,859 78,324	4 14	4	·····2	'		4 2		5	
Houston, Tex	116,878	39							8.1	. 3
Hudson, N. Y	12,898 21,461	3								()
Hutchinson, Kans	21,461 11,964	6	1						1 2	
Indianapolis, Ind	283 622		3		52		11		4	7
Iowa City, Iowa	11,626 14,079 15,095						1			• • • • • •
Ironton, Ohio	14,079	5 1		····i					····::ái	, 1
Indianapolis, Ind. Iowa City, Iowa Ironton, Ohio Ironwood, Mich Ithaca, N. Y.	16,017	7			····i		Ġ		2	91
Jamestown, N. Y	37, 431	7	2							•••••
Jamestown, N. Y Janesville, Wis. Jersey City, N. J. Johnstown, N. Y	14,411	3	27		19		••••		18	• • • • •
Iohnstown N Y	312, 557 10, 678	4	21		19		!		10	· · · · · ·
Johnstown, Pa.	70.473		3		12					
Jonistown, Fa Joplin, Mo. Kalamazoo, Mich. Kankakee, ill.	33, 400	5	;-		56				3 4	
Kalamazoo, Mich	50, 408 14, 270	19 8	1		- 96					
Kansas City, Kans Kansas City, Mo Kearny, N J Kenosha, Wis Knoxville, Tenn	102, 096	!	1		15		1 .		3 .	
Kansas City, Mo	305,816	74	9		8		3 1		2	8
Kearny, N. J	305, 816 24, 325 32, 833	3 7	5	· · · i	26		7		2	•••••
Knoxville, Tenn	59, 112		ĭ				2			
Kokomo, Ind	21, 929	6	1				3 .			• • • •
Lackawanna, N. Y	16, 219 31, 835	5 13	2		3				i	<u>2</u>
Knoxville, Tenn Kokomo, Ind Lackawanna, N. Y. La Crosse, Wis La Fayette, Ind Lakewood, Ohio Lancaster, Ohio Lancaster, Pa Lawrence, Kans Lawrence, Mass Lebanon, Pa	21, 481	9	ĩ		2					
akewood, Ohio	23,813	6 7	•••••	•••••	1 2		1 .		1	1
ancaster, Unio	16,086 51 437	1	····i		3		1		···i	
awrence, Kans	51, 437 13, 477 102, 923	1	1							
awrence, Mass	102, 923	29	3	1 .			2 .		2	5
Awrence, Mass Abanon, Pa Acominster, Mass Axington, Ky	20, 947 21, 365	4	• • • • • • • • •	• • • • • • •			2		2 -	
exington, Ky.	41, 997	20			12	1 .				2
	37, 145	1	1].		46		12		1	1
Lincoln, Nebr	46, 957 58, 716	12			1 -		1		1	····i
ockport, N. Y.	20,028	4 .			22 .		3 .		2 .	· · · · •
incoln, Nebr ittle Rock, Ark ockport, N. Y ogansport, Ind	21,338	6 .	-		1 .		3 .			• • • • •
ong Beach, Califors Branch, N. Jorain, Ohio. os Angeles, Califors Wylle, Ky	29, 163 . 15, 733 .	4					1	::::: :	::::::	
orain, Ohio.	15,733 38,266	8 .								i
os Angeles, Calif	535, 485	140	6	1 2	6 .		9 .		33	24
ouisville, Ky	240, 808 114, 366	70 35	4	4	5 . 6 .		10		10	9 5
owell, Mass	114,366 10,566 104,534	6			1 .					1
Lynn, Mass	104, 534 48, 299	24	3 .		31 8	1	5		5 3 .	1
McKeesport, Pa	48, 299 . 46, 099	20			î i	• • • • •	1 -	• • • • •	٠,	• • • • •

¹ Population Apr. 15, 1910.

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	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mes	sles.		arlet ver.	Tı cu	iber- losis.
City.	(estimated by U.S.	from all	1	18.		ıs.		18.	l .	83
	Census Bureau).	causes.	Cases	Deaths.	Casos	Deaths.	Cases.	Deaths	Cases.	Deaths
Madison, Wis	31, 315	8	1	<u> </u>	17	<u> </u>	2			2
Malden, Mass	31, 315 52, 243 79, 607 13, 931	18	2		2		2		3	3
Manchester, N. H. Manitowoc, Wis	13, 931	21		l::::::	12		i		5	1 1
Mankato, Minn	1 10,000	1	1		1		·····		l	
Mainette, Wis. Marinette, Wis. Marion, Ind. Marion, Ohio. Marlboro, Mass. Marquette, Mich. Marshalltown, Iowa. Martinsburg, W. Va. Mason City, Iowa. Medford, Mass.	1 14, 610 19, 92 3	3 4	i		····i	·····	2		1	
Marion, Ohio	24, 129	l	Ĩ		Ī	·	ļ <u>.</u> .			
Mariboro, Mass	15, 285 12, 555	3 2			1 5				2	
Marshalitown, Iowa	14,519		i	1	l		i			
Martinsburg, W. Va	12, 984			ļ	1		1	ļ		
Medford, Mass	14,938 26,681	9		<u> </u>			3		4	i
Malroca Mace	17, 724 151, 877	9	1				2			ļ
Memphis, Tenn	151,877	. 56	7		26		. 9		18	10
Memphis, Tenn Methuen, Mass. Middletown, N. Y. Middletown, Ohio	14,320 15,890	l							i	
Middletown, Ohio	16, 384	. 1		ļ:						İ
Millord, Mass Milwaukee, Wis. Minneapolis, Minn Missoulis, Mont Molinė, Ill Monessen, Pa. Montelst, N. J.	14, 280 445, 008	94	6	i	6		15		16	7
Minneapolis, Minn	373, 448	70	18	2	85		21	1	23	9
Missoula, Mont	19,075 27,976	6	2	····i		• • • • • •	2			1
Monessen, Pa	23,070		2		2		3			
Montclair, N. J.	27,087				1				3	
Morgantown, W. Va	44, 039 14, 444	23 4			1	•••••	•••••		• • • • • •	
Montclair, N. J. Montgomery, Ala Morgantown, W. Va. Morristown, N. J.	13, 410 20, 709	5								
Mount Vernor, N. V	20, 709 37, 991	5	2 3		7	•••••	• • • • • •		1	·····;
Nanticoke, Pa	23,811				3					
Nashua, N. H.	27, 541 118, 136	4	;-				8			
Morristown, N. J. Mount-Vernon, N. Y. Nanticoke, Pa. Nashua, N. H. Nashville, Tenri. / Natick, Mass. Newark, N. J. New Bedford, Mass. New Bedford, Mass. New Britain, Conn.	10, 140	38 6	1		6		3		3	2
Newark, N. J.	418, 789	85	38	1	14		14		45	13
New Britain, Conn	121, 622 55, 385	32 13	1		12 1	• • • • • •	3 1		14	5
New Brunswick, N. J. Newburgh, N. Y.	25, 855		3		ī				2 3	
Newburgh, N. Y	29, 893 15, 291	5 5	1			•••••			3	i
New Castle, Pa.	41 915						5		• • • • • • • • • • • • • • • • • • •	•••••
New Haven, Conn	152, 275	47	7	1	12				4	2
New Orleans, La.	21, 199 377, 010	7 129	2 7	•••••	3		1 4		1 24	16
Newport, Ky	152, 275 21, 199 377, 010 32, 133	6	i						ĩ	1
Newport News, Va	22, 622 30, 585	9			1	••••••	3		<u>2</u>	1
Newton, Mass.	44,345	7	i		i					
New Haven, Conn New Orleans, La. Newport, Ky Newport News, Va Newport R. I. Newton, Mass New York, N. Y Niagara Falls, N. Y Norfolk, Va Norristown, Pa North Adams, Mass. North Adams, Mass. Northampton, Mass.	5, 737, 492 38, 466	1,304 15	317	24	217	9	86 1	4	320	144
Norfolk, Va	91, 148	15	3 1		7		i		2	1
Norristown, Pa	31, 969				24		5		1	
North Adams, Mass	1 22, 019 20, 006	11 6	····· ₂	• • • • • •		•••••	•••••		•••••	3
North Tonowanda, N. Y	14,060	6			2	i i			1	•••••
Norwich, Conn	21, 923 23, 269	1 3	•••••		···io		1 1	•••••	5	1
Oakland, Calif.	206, 405	49	8				5		6	3
Oak Park, Ill	27, 816	6	1		57		1		•••••	•••••
Ogdensburg, N. Y. Oil City, Pa.	16, 845 20, 162	4	····i		45				••••	•••••
Oklohoma City Oklo	97, 588 16, 927 177, 777 14, 393	10	2							2
Olean, N. Y. Omaha, Nebr. Orange, Conn. Ossining, N. Y.	16, 927 177, 777	10 32	····i	•••••	17.		8			····i
Orange, Conn	14,393	12			1		2			••••••
Ossining, N. Y. Parkersburg, W. Va.	14,064 21,059	6	1	••••••	9	•••••	3	•••••	••••••	•••••
Parsons, Kans.	15, 952				1	:::::			1 1	• • • • • • •
Pasadena, Calif	49, 620 74, 478	16 7	•••••				····ːː·		1	3
Paterson, N. J.	140, 512	'.	1 4		1]	::::: <u>:</u>	2 2	•••••		
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¹ Population Apr. 15, 1910.

City. (estimated from by U. 8. Census Bureau). Peckskill, N. Y	Deaths.
Prinisdelphia, Pa. 1,33,514 502 70 11 133 1 59 3 86 Phillipsburg, N. J. 15,879 1 1	1 1 67
Philadelphia, Pa. 1,33,514 502 70 11 133 1 59 3 86 Phillipsburg, N. J. 15,879 1 1	67
Philadelphia, Pa. 1,735,514 502 70 11 133 1 59 3 86 Phillipsburg, N. J. 15,879 1	67
Plattsburg, N. Y. 13, 111 2 1	
Plattsburg, N. Y. 13, 111 2 1	
Plattsburg, N. Y. 13, 111 2 1	
Plattsburg, N. Y. 13, 111 2 1	
Pottstown, Pa	2
Pottstown, Pa	i -
Pottstown, Pa	i
Pottstown, Pa	
Pottstown, Pa	
Pottstown, Pa	i
Pottstown, Pa	3
Pottstown, Pa	5
Providence, R. I. 259, 895 63 9 1 3 1 5 Pueblo, Colo. 56, 684 4 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 3 3 1 1 2 2 1 1 3 1 1 2 2 1 1 3 3 1 1 2 3 1 1 3 1 1 2 3 1 1 1 2 3 1 1 1 1 1 2 3 1 <td>i</td>	i
Providence, R. I. 259, 895 63 9 1 3 1 5 Pueblo, Colo. 56,084 4	2
Quincy, Mass 33,022 13 6 2 2 2 1 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	. 15
Quincy, Mass 33,022 13 6 2 2 2 1 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Richmond, Va 158, 702 43 23 3 3 3 Riverside, Calif. 20, 486 7	2
Richmond, Va 158, 702 43 23 3 3 3 Riverside, Calif. 20, 486 7	• • • • • •
Richmond, Va 158, 702 43 23 3 3 3 Riverside, Calif. 20, 486 7	\$
Richmond, Va 158, 702 43 23 3 3 3 Riverside, Calif. 20, 486 7	
Richmond, Va. 158, 702 43 23 3 3 Riverside, Calif 20, 496 7 20, 49	
Rocky Mount, N. C. 12, 673 4 1	6
Rocky Mount, N. C. 12, 673 4 1	•••••
Rocky Mount, N. C. 12, 673 4 1	5
Rocky Mount, N. C. 12, 673 4 1	1
Rome, N. Y. 24, 259 1 1 17 1 1 Ruttand, Vt. 15, 038 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•••••
Rutland, Vt. 15,038 4	
	4
St. Joseph, Mo. 86, 498 16 2 1 1 1 1 St. Louis, Mo. 768, 630 191 67 4 145 3 15 45	1 20
Saint Cold, Minth 12,013 86,498 16 2 1 St. Joseph, Mo. 86,498 16 2 1 1 St. Louis, Mo. 768,630 191 67 4 145 3 15 45 81 81 81 81 81 81 81 81 81 8	20 7 2
St. Paul, Minn 25°, 465 45 30 96 1 6 1 17 Salem, Nass 49, 346 11 2 1 5 1 Salem, Oreg 21, 274 2 2 2	
Salt Lake City, Utah. 121,623 28 1 1 4	2 1 7 5
San Angelo, Tex. 10, 321 1	1
San Antonio, Tex 128, 215 10 9 San Bernardino, Calif 17, 616 10 9	5
San Diego, Calif	ĭ
Sandusky, Ohio. 20, 226 6 1 1 1 1. Sanford, Me. 11, 217 7	i
San Francisco, Calif	10
San Jose, Calif. 39, 810	1
Saratoga Springs, N. Y	•••••
Saratoga Springs, N. Y 13, 839 5 1 1 Saugus, Mass 10, 210 3 1 7 2 Sault Ste. Marie, Mich 14, 130 3 1	i
Sault Ste. Marie, Mich. 14, 130 3 1	2
Savannah, Ga. 69, 250 26 1	4
Scranton, Pa 149,541 4 5 Scattle, Wash 366,445 6 16 19	· · · · •
Shemokin, Pa 21 274 7 15	••••
Sharon, Pa. 19,156 19,156 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet ver.		ıber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
South Bend, Ind	70,967	13		1	2	 	 	ļ		
Southbridge, Mass	14,465 21,985	3 3	····i						3	
Snokana Wash	157,656	,	i		5		ii.		1 3	
Spartanburg, S. C. Spokane, Wash Springfield, Ill.	62,623	9	ļ <u>.</u>		1		1 73			
Springfield, Mass. Springfield, Mo. Springfield, Ohio.	108, 668	31		1	1		1		1	1
Springfield, Mo	41,169	5 20								
Steelten Pa	52, 296 15, 759	20			5 4		• • • • • •		4	1
Steelten, Pa. Steeltenville, Ohio	92 950	4							4	
Stockton, Calif	35, 209	6								1
Sunbury, Pa	16,661		;-		1					ļ
Steurenville, Onlo. Stockton, Calif. Sunbury, Pa. Superior, Wis. Syracuse, N. Y. Tacoma, Wash. Taunton, Mass. Terre Haute, Ind.	47, 167 158, 559	4 38	3	•••••	i	•••••	15	• • • • • •	5	
Tacoma. Wash	117, 446		2		7		5	•••••		·
Taunton, Mass.	36, 610	7	1		3	1			2	
Terre Haute, Ind	67, 361 12, 962	15	1		2	•••••	1	•••••	1	
Tiffin, Ohio	12,962	8 62	2	• • • • • •	168	•••••	6	•••,•••	14	1 7
Topeka, Kans	202, 010 49, 538	7	í	•••••	100		î	•••••	14	'
Trenton, N. J. Troy, N. Y.	113,974	41	1		85		ī		4	2
Troy, N. Y	78,094	28	2						3	3
Tulsa, Okla. Tuscaloosa, Ala.	32, 507	••••••	•••••	• • • • • •				• • • • •	1	
Tuscanosa, Ala	10, 824 89, 272	1 18	1 5	•••••	····i		3	•••••	8	
Vallejo, Calif	13,803	2								
Utica, N. Y Vallejo, Calif Virginia, Minn	15,954		1							
Waco, Tex	34,015	9					1			
Waco, Tex. Wakefield, Mass. Walla Walla, Wash Waltamn, Mass.	12,947 26,667	2			•••••				····i	
Waltham Mass	31,011	9	i						i	
Warren, Pa	15,683]				1			
Washington, D. C	369, 282		32	3	8	• • • • • •	18		26	8
Washington, Pa	22,076 89,201	····i	6	···i	16		6		3	••••
Waterbury, Conn	15, 188				2				ĭ	
Watertown, N. Y Wausau, Wis Webster, Mass	39,404		1		ī]		
Wausau, Wis	19,666	4					1		• • • • • •	1
Webster, Mass	13,484 13,403	4	····i		8		3	'	•••••	
West Chester, Pa	18,769	2	2		î		3		1	
West Heboken, N. J.	44, 386	9	ĩ l				i		ī	i
West New York, N. J	19,613	4	1							
West Orange, N. J	13,964	,2	3 2 1	•••••	3		2		1	1
Wiebita Kong	43,657	15 24	2		i		•••••		2	1
Wilkes-Barre, Pa	73,597 78,334		î		18		3			
Wilkinsburg, Pa	23, 899 34, 123 95, 369		1		1				2	
Williamsport, Pa	34, 123		3		16	•••••	2		;-	•••••
Wilmington, Del	30,400	22 11	4	•••••	2	• • • • • • •	2		1	1
Winchester Mass	10, 812	3							···i	î
West Chester, Pa. Westfleld, Mass. West Heboken, N. J. West New York, N. J. West New York, N. J. Wheeling, W. Va Wichita, Kans Wilkes-Barre, Pa. Wilkinsburg, Pa. Wilkinsburg, Pa. Williamsport, Pa. Wilmington, Del. Wilmington, N. C. Winchester, Mass. Winston-Salem, N. C. Winthrop, Mass. Woburn, Mass.	10, 812 33, 136 13, 105	21	2		14				4	3
Winthrop, Mass	13, 105						3		•••••	•••••
Wordester Mass	16,076	44	6		26	3	6		5	6
Worcester, Mass	22.058	22	١		20	3	3		٥	
YONKERS, N. I	103,066	26	i		6		3			·····2
York, Pa	22,058 103,066 52,770 112,282 31,320		2 2		2	ا-ر	3		1	•••••
					59	1	3		1	9
Youngstown, OhioZanesville, Ohio	112, 282	34	- 2	•••••	08	- 1	٠,	•••••	- 1	2 1

FOREIGN.

CHINA.

Plague-Hongkong.

During the week ended June 14, 1919, 43 cases of plague with 38 fatalities were notified at Hongkong.

CUBA.

Communicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

	May 1-10	Remaining under	
Disease.	New cases.	Deaths.	treatment May 10, 1919.
Broncho-pneumonia. Diphtheria. Leprosy.	2		1 3 17
Partyphoid fever Scarlet fever Typhoid fever	20		1 27 4 2 2 66

¹ From the interior, 24.

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

Reports Received During Week Ended June 27, 1919.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India: Bombay. Calcutta. Rangoon.	Mar. 24-Apr. 26 Apr. 27-May 3 Apr. 20-26	48 6	29 165 4	

PLAGUE.

China: Hongkong			38	Apr. 19-26, 1919:	Cases,	5,919;
Bombay Calcutta. Rangoon	Mar. 21-Apr. 26 Apr. 27-May 3 Apr. 20-26	298 36	243 25 35	deaths, 4,671.		

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

² From the interior, 29.

Reports Received During Week Ended June 27, 1919—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil: Rio de Janeiro	Apr. 20-May 3	10	13	
Nova Scotia— HalifaxSydney	June 1–7 May 25–June 7	24 5		Present in 12 localities and in un- stated districts in Richmond County.
Ontario— Hamilton Ouebec—	June 8-14	1		County.
Quebec	June 1-7	İ		
Colombo	Apr. 20-May 3			
Chungking	Apr. 20-May 3 May 4-17			Present. Do.
France: Paris	May 4-17	3		
Cardiff	May 11-31	5		
BombayCalcuttaRangoon	Mar. 24–Apr. 26 Apr. 27–May 3 Apr. 20–26		235 98 28	
Italy:	May 19–25		20	Province of Messina.
Naples Palermo	May 19–25 May 9–15	34	30	
Manchuria: Dairen	May 6-12	2	1	
Mexico: Guaymas Newfoundland:				Present in April and May, 1919
St. Johns	May 31-June 13	l		Outports, 18 cases.
Oporto	May 11-24	ł	23	
Barcelona Madrid Valencia	Apr. 24-May 14 Apr. 1-30 Apr. 27-May 10	119	7 4 9	
	TYPHUS	FEVE	R.	
China:				
TsingtaoGreat Britain:	May 5-11			
GlasgowJapan:	May 11-24	l	2	
Nagasaki Portugal: Oporto	May 12-18 May 11-24		•••••	

Reports Received from Dec. 28, 1918, to June 27, 1919. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon: Colombo	Nov. 17-30	4	5	Present.
Germany: Berlin Bremen Marienwerder	To Oct. 5 Oct. 13–19	17 1	11	On a barge. 1 case in October, 1918, on a barge
				in canal.

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay	Aug. 18-Dec. 28	1,354	1,031	l
Do	Dec. 29-Apr. 26	9,739	8,539 241	
Calcutta Do	Sept. 20-Dec. 21		241	Reports for weeks ended Nov. 23
Do	Dec. 29-May 3		2,377	1918, and Mar. 29, 1919, missing
Karachi	Jan. 26-Mar. 22 Oct. 5-Dec. 28 Jan. 5-Apr. 19 Oct. 5-Dec. 21	3 264	164	Oot 27 Nov. 9 1019, Garage
Do	Ton 5-Anr 10	430	300	Oct. 27-Nov. 2, 1918: Cases, 9 deaths, 4.
Rangoon	Oct 5-Dec 21	35	35	(Cools), T.
RangoonDo	Dec. 29-Apr. 26	71	58	
Indo-China	1	I		July 1-Oct. 31, 1918: Cases, 753
Anam	July 1-Aug. 31 July 1-Oct. 31	37	30	deaths, 472.
Cambodia	July 1-Oct. 31	324	171	•
Cochin China	do	436	337	
Saigon Do Kwang-Chow-Wan	Oct. 7-Dec. 22	75	45	City and district
Vmana Chow Won	Dec. 3-Apr. 20 July 1-31 July 1-Oct. 31	573	358 34	City and district.
Tonkin	Tuby 1-01	50 6	31	.,
ava:	July 1-Oct. 31	٥		
Track Towns	1		i	Oct. 7-Dec. 31, 1918: Cases, 381;
Surabaya district	Oct. 7-Dec. 31	655	423	deaths, 323. Jan. 1-Anr 1
Do	Jan. 1-Apr. 1	565	394	1919: Cases, 1.171: deaths 987
Mid-Java			•••	Sept. 25-Dec. 18, 1918; Cases
Samarang	Sept. 26-Oct. 16	120	111	3,282; deaths, 2,014. Jan. 24-
		٠,		Oct. 7-Dec. 31, 1918: Cases, 381; deaths, 323. Jan. 1-Apr. 1; 1919: Cases, 1,171; deaths, 907. Sept. 25-Dec. 18, 1918: Cases, 3,282; deaths, 2,014. Jan. 24-Mar. 27, 1919: Cases, 3,375; deaths, 2,534. Oct. 3-Tec. 11, 1918: Cases, 412; deaths, 238. Dec. 27, 1918-Apr. 17, 1919: Cases, 24; deaths, 11
West Java				Oct. 3-Pec. 11, 1918; Cases 412-
Batavia	Oct. 3-Dec. 11	291	148	deaths, 238. Dec. 27, 1918-Apr.
Do	Oct. 3-Dec. 11 Pec. 27-Apr. 17	16	4	17, 1919: Cases, 24; deaths, 11.
Cheribon	Jan. 3-Mar. 3	3		
fesopotamia:	-			
Bagdad	Oct. 11-18	. 8		
hilippine Islands:	a		1	
Manila	Sept. 22-Dec. 28	209	135	
Provinces	Pec. 29-May 3	53	24	NOT 2-Dec 28 1018- Cases 1 000.
Albay	Fac 15_91	••••••	1	deaths 1 515 Dec 20 1019.
Ambos Camarines	Гес. 15-21 Feb. 15-21	10	2	May 3. 1919: Cases 1 537:
Rataan	Nov. 17-Dec. 28	38	32	Nov. 2-Dec. 28, 1918: Cases, 1,986; deaths, 1,515. Dec. 29, 1918- May 3, 1919: Cases, 1,537; deaths, 1,077.
DoBatangasDoBohol	Jan. 5-11	2	2	
Batangas	Nov 2_1'00 28	258	230	
Do	Γec. 29-May 3 Nov. 2-Dec. 28 Dec. 29-Apr. 12 Oct. 12-Γec. 28	103	77	
Bohol	Nov. 2-Dec. 28	29	24	
Do	Dec. 29-Apr. 12	108	71	
Bulacan Do	rec. 29-Feb. 21	51 42	.8	*
Capiz	Γεc. 22-28	7	26 5	
Do	Jan 5-25	28	14	
Cavite	Jan. 5-25 Oct. 27-1 cc. 21	207	115	
Do	Pcc. 29-Apr. 19	18	17	
Cebu	Pec. 29-Apr. 19 Nov. 10-Dec. 21	50	27	•
Do	Jan. 12-Apr. 19 Fec. 8-28 Dcc. 29-Feb. 15	20 17	15	
Hocos Sur	Гес. 8-28	17	8	
Do	Dec. 29-1eb. 15	56	38	
Iloilo Do	Oct. 27-Dec. 21	112	78 109	
Laguna	Jan. 5-Apr. 12 Oct. 27-1 ec. 28	173 18	11	
Do	Pec. 29-May 3	255	191	
Lanao	Jan. 5-11	8	4	
Mindoro Misamis	Nov. 21-30	7	14	
Misamis	Oct. 27-Dec. 28	81	53	
Do Nueva Ecija	Jan. 5-Mar. 29	154	88	
Nueva Ecija	Jan. 12-25	.91	6 1	
Occidental Negros	Feb. 2-Mar. 22 Nov. 2-Dec. 7	10	.7	
Oriental Negros	Ton 5 Feb 15	32 35	18 22	
Do	Nov 24-Dec 14	4	74	
Pampanga	Jan. 5-Feb. 15 Nov. 24-Dec. 14 Jan. 5-May 3	186	137	
Pangasinan	NOV 2-1100 2X. I	930	652	
Do	Dec. 29-Apr. 19 Oct. 27-Nov. 2 Nov. 24-30	170	131	
Rizal	Oct. 27-Nov. 2	3	1	
_ Do	Nov. 24-30	16	5	
Bamar	Dec. 15-21	8	11	
Sorsogon Do	Nov. 17-23	8	26	
DO	Jan. 19-Feb. 8 Nov. 3-Dec. 28	60	20	
Tayabas	Dec. 29-Feb. 15	80		

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Continued. Provinces—Continued. Union	Nov. 2-Dec. 28 Dec. 8-28 Jan. 5-Feb. 8 Oct. 2-Nov. 27	5 5	19 21 1	
Petrograd	To July 16 July 17-Sept. 11	3,388 3,479	1,054 1,455	In civil and military hospitals. In military hospitals, July 5- Aug. 21, 1918: Cases, 884; deaths, 783. In municipal hos- pitals, Oct. 1, 1918: Cases, 279.
Siam: Bangkok Ukrania: Ekaterinaslav Odessa		6 7 25	6	Sept. 1-20, 1918: 1f cases on s. s. Helena.
	PL	GUE.		
Brazil; Porto Alegre	Oct. 27-Nov. 2	1	1	Present in April, 1919.
China: Amoy Chungking. Hing-Ning district. Hongkong.	Jan. 4-Apr. 5 Nov. 24-Dec. 8 Dec. 1-7 Mar. 15 Oct. 1-Dec. 28 Jan. 1-May 3		4 	Do. Do. Do. May 4-17, 1919: Deaths, 65. May 18-31, 1919: Cases, 71. June 1-6, 1919: Cases, 41; deaths, 37.
Cities— Alexandria	Mar. 23	2 20 55 1	1 7 17 1	June 8-14, 1919: Cases, 43; deaths, 38. Jan. 1-Nov. 21, 1918: Cases, 357; deaths, 153. Jan. 1-May 1, 1919: Cases, 202; deaths, 144.
Suez. Provinces— Assiout. Beni-Soucf. Fayoum Girgeh. Minieh. India.	Jan. 31-Apr. 29 Feb. 24-Apr. 17 Apr. 22 Apr. 26 Feb. 22-Mar. 22 Feb. 21-Apr. 22	73 22 1 13 10 3	13 1 3 5 3	16 septicemic. 2 pneumonic.
Bombay Do. Calcutta	Aug. 18- Dec. 28. Jan. 12-Apr. 26. Dec. 22-28. Jan. 12-May 3. Oct. 19- Dec. 28. Dec. 29- May 7. Dec. 8-28. Dec. 29- Apr. 5. Oct. 13- Dec. 28. Dec. 29- Apr. 19. Dec. 29- Apr. 19.	17 73 26 206 1,152 2,583	29 295 1 193 17 60 17 117 774 1,743	1 pneumonic. Sept. 23-Dec. 28, 1918: Cases, 24,279; deaths, 18,369. Dec. 20, 1918-Mar. 1, 1919: Cases, 25,506; deaths, 19,401. Mar. 9-15, 1919: Cases, 13,981; deaths, 5,402. Mar. 30-Apr. 12, 1919: Cases, 6,854; deaths, 5,550. Apr. 19-28, 1919: Cases, 5,919; deaths, 4,671. Oct. 27-Nov. 2, 1918: Cases, 142; deaths, 33.
Cochin-China	Oct. 5-Dec. 21 Dec. 29-May 19 July 1-Oct. 31 do do Apr. 7-20 Oct. 7-Nov. 24 Apr. 7-20 July 1-31	84 424 42 72 65 1 5 1	81 407 36 72 35	July 1-Oct. 21, 1918: Cases, 161; deaths, 145. Jan. 13-Apr. 20, 1919: Cases, 39; deaths, 26.

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

PLAGUE-Continued.

	PLAGUE-	-Conti	aued.	
Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java				Oct. 7-Nov. 18, 1918: Cases, 109
Surabaya (district)	Oct. 7-Dec. 31	92 59		deaths, 109. Jan. 1-Apr. 1 1919: Cases, 238; deaths, 238.
Do Mid-Java.	Jan. 1-Apr. 1	59	309	Sent 25-Oct 16 1918: Cases 14
Samarang	Sept. 25-Oct. 16	6	6	Sept. 25-Oct. 16, 1918; Cases, 14 deaths, 14. Jan. 30-May 14
Do	Mar. 21-27	. 7	7	1919: Cases, 220; deaths, 220.
Mesopotamia:	Nov. 16 90	l .	2	The state of the s
BagdadDo	Nov. 16-29 Feb. 22-May 18	222 222		
Siam:	- 00 200, 2000		1	
Bangkok	Sept. 21-Oct. 12	6	5	
Do	Jan. 19-Feb. 22	7	6	
Venezuela: Caracas	Dec. 30	1	i	
On vessel:	200.00			
S. S. Japan	Jan. 14	1	1	At Suez quarantine station from
	34 01	Ι.	1 .	Bombay.
S. S. Sparta	May 21	1	1	At Liverpool, England, from Bombay.
		· .	1	Domosy.
		·		
	SMAL	LPOX.		
Algeria:	Oct. 1-Dec. 31	2	1	
Algiers	Mar. 1-31	ī	ī	••
Arabia:				
Aden	Apr. 14-21	• • • • • • •	1	Dec 1 1010 Fem 11 1010: Game
AustriaVienna	Dec. 1-Jan. 11	6		Dec. 1, 1918-Jan. 11, 1919: Cases, 68. Jan. 12-Mar. 15, 1919:
Do	Feb. 9-Mar. 15	28		Cases, 154.
Bohemia				Cases, 154. Feb., 1919: Reported prevalent.
Gablonz	FebMar	974	19	Mar., 1919: Cases, 57.
Brasil:	Mor 20 Apr 5	5	•	
Bahia	Mar. 30-Apr. 5 Dec. 1-28	46	19	Oct. 6-12, 1918: Cases, 15; deatha,
Do	Dec. 1-28 Dec. 30-May 3	52	32	10.
Sao Paulo	Mar. 3-Apr. 25		4	
British East Africa:	Sept. 1-Nov. 30	6	1	•
MombasaCanada:	pept. 1-Mov. av	. "	•	
New Brunswick—				* * *
Campbeliton	Dec. 22-28	1		
. Do	Jan. 5-May 10	4 3		in the second second second second second second second second second second second second second second second
St. John Do	Nov. 8-14 Jan. 26-Feb. 22	6		•
Nova Scotia—	Jan. 20-Feb. 22	•		· · · · · · · · · · · · · · · · · · ·
Bear River	Dec. 29-Jan. 4			Present.
Bigbee	Jan. 10			Do.
Cape Sable Island	May 13	••••••	•••••	Present on south side. Present.
Digby Halifax	Dec. 7-28	10		A resourt.
Do	Jan. 5-June 7	391		Present in 20 other localities.
Middleton	Dec. 29-Jan. 4			Present.
Sydney	Jan. 5-June 7	38		
Ontario— Hamilton	June 8-14	1	, ,	
North Bay	Jan. 19-25	îl		
Ottawa	Jan. 19-25 Jan. 12-May 31	14		
Toronto	Feb. 2-15	2	·····	•
Do	Mar. 16-22	1	•••••••	
Prince Edward Island— Charlotte Town	Feb. 27-Apr. 16	2		
Quebec—	FOD. 21-MIR. 10	-	••••••	
Montreal	Jan. 24-Dec. 21	2		
Do	Jan. 12-May 10	32		
Paspebiac	Jan. 12-Mar. 8	8		
Quebec	Dec. 15-21	.1	••••••	

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy	Oct. 13-Dec. 28		.	. Present
Do	Mar. 11-Apr. 14	4		Do.
Antung	Feb. 10-16	. 1		.
Do	Feb. 24-Mar. 2	1		·l
Canton	Nov. 17-23			. Do.
Do	Feb. 9-May 3 Mar. 16-Apr. 12 Nov. 10-Dec. 28	· · · · · · · · · · · · · · · · · · ·	.	. Do.
Changsha	Mar. 16-Apr. 12	5		·
Chungking	Nov. 10-Dec. 28		-	. Do.
Do	Jan. 5-May 3 Nov. 24-Dec. 28			. Do. Do.
FoochowDo	Dec. 29-Apr. 5	1		Do.
Hankow	Apr 13-19	1		-
Hongkong	Apr. 13-19 Dec. 15-21	î	1	1
Do	Feb. 2-8	ı i	1	j.
Do	Feb. 16-May 3	16	5	1
Nanking	Dec. 1-23			. Do.
Do	Dec. 29-May 17 Jan. 20-26			. Do.
Snangna:	Jan. 20-26	1.		.†
Tientsin	May 4-10	1		-
Tsingtao	Mar. 3-9	2		
Chosen (Korea):	N 1 D 21			1
Chemulpo	Nov. 1-Dec. 31 Jan. 1-Mar. 31	15	4	1
Pusan	Feb. 1-Mar. 31	16 20		1
Seoul	Feb. 1-Mar. 31	3	16	****
Colombia:	reu. 1-mar. 31	3	1	
Barranquilla	Apr. 6-12		1	1
Denmark:	pr. 0-12		1 :	1
Copenhagen	Nov. 9-Dec. 28	12		
Do.	Dec. 29-May 3	121		
Egypt:				
Alexandria	Dec. 17-23	1	1	1
D ₀	Jan. 22-May 13	80	24	1
Finland				Jan. 1-Apr. 15, 1919: Cases, 936.
Provinces:		l		
Abo Och Björneborg	Jan. 1-Apr. 15	91		
Kuopio	do	188		
Nyland St. Michael	go	25 135		
Townstabus	do	135		I
Tavastchus	do	16 1		
Vaca	do	16		
Vasa. Viborg	do	464		
France: Bordeaux Brest Paris Germony		.01		
Bordeaux	Feb. 8-13		1	
Brest	Feb. 2-8	1		
Paris	Mar. 2-May 17	20	3	,
Germany Dresden				Nov. 24-Dec. 7, 1918: Cases, 34.
Dresden	Nov. 24-Dec. 7	18		Dec. 8, 1918-June 11, 1919:
Friedland	do	1		Nov. 24-Dec. 7, 1918: Cases, 34, Dec. 8, 1918-June 11, 1919: Cases, 177. Additional cases
Halle	do	4		reported later, 54, for week
				reported later, 54, for week ended Jan. 11. Feb. 16-Mar. 22, 1919: Cases, 230; among
				22, 1919: Cases, 230; among
				soldiers and prisoners of war, 745 cases.
Königsberg	do	8		In persons evacuated from the
Schkeuditz	do	i		In persons evacuated from the Ukraine.
Königsberg Schkeuditz Tilsit	do	î		
Torgau	do	î		
Germany:		_		
Aix-la-Chapelle (district)	Dec. 8-Jan. 11	17		
(ISSSE)	- nn - 1	10		
Danzig	do	3		
Danzig. Doristhal Dresden	do	8		District of Gumbinnen.
Dresden	Dec. 8-Feb. 15	247		26 additional cases reported later
Hadie	Dec. 8-Jan. 11	5		at Dresden.
Hanover	ao	.7		Among interned Russians.
Halie	do	15		
Mayrode	do	5 6	•••••	
Echione	do	4		District of Dresden.
Rieso		- 4		DISHIRE OI DICECCOL.
1610300				
Great Britain:	1	اج		and the second s
Great Britain: Cardiff	May 11-31	5	1-	Of these, 2 from vessels.
Great Britain:	May 11-31	5 7 17	1	Of these, 2 from vessels.

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Saloniki	Feb. 2-May 10	-	. 87	
India: Bombay	Aug. 18-Dec. 28	35	8	
Do	Dec. 29-Apr. 26	.,		
Calcutta	Sept. 29-Dec. 28		. 17	Reports for weeks ended Nov. 23.
1)0	Dec. 29-May 3	.1	. 785	1918, and Mar. 29, 1919, missing,
Karachi	Sept. 29-Dec. 28	13	4	
Do	Dec. 29-May 3	176 62	86 40	
Madras	Cct. 5-Dec. 28		131	
DoRangoon	Dec. 29-Apr. 19 Oct. 20-Dec. 21	32	6	1
Ďo	Dec. 29-Apr. 26	1,190	488	
Indo-China	!		· <u></u> -	July 1-Oct. 31, 1918: Cases, 620;
Anam	July 1-Oct. 31	146	67	deaths, 254.
Cambodia	Iniv 1 Cot 31	165 400	112	
Cochin-China	Aug. 1-Oct. 31 July 1-Oct. 31 Cct. 7-Dec. 22	29	5	
Do	Dec. 39-Apr. 6	119	21	City and vicinity. Apr. 7-20,
Tonkin	July 1-Cct. 31	20	1	1919: District, cases, 33; city, 1.
Italy:	ĺ		Į.	
Andria	Mar. 10-16	1		Province of Bari.
Barletta	Mar. 3-9	2	· · · · · · · · · · · · · · · · · · ·	Do.
Castroreale	May 12-18 Jan. 9-Mar. 15	4	2	
Genoa Lecce (Province)	Feb. 17-23	2	l	i ·
Leghorn	Apr. 14-30	ī		
Messina	Mar. 2-May 15	7	 	Cases reported in several locali-
Milazzo	May 12-25	11	1	ties in Province, Mar. 2-30.
Nanies	Mar. 10-May 25	109	92	
PalermoTurin	Jan. 31-May 15 Jan. 27-Mar. 23	63	2 2	
Japan:	Jan. 21-Mai. 20	,	•	
Kobe	Cct. 26-Dec. 28	186	46	1.
Do	Dec. 29-May 3	630	220	AME A
Nagasaki	Mar. 31-Apr. 6	3	,	
Nagoya	Mar. 2-15	2		Tolond of Worman
Taihoku	Jan. 15-Apr. 29 Apr. 26	152 1	18	Island of Formosa.
TokyoYokohama	Jan. 20-Apr. 27	2		
Java:	Julii So icpii siiiii	_		•
East Java				Oct. 7-Dec. 31, 1918: Cases, 22;
Surabaya (district)	Oct. 7-Dec. 31	16	2	deaths, 1. Ján. 1-Feb. 25, 1919:
Do Mid-Java	Jan. 1-Feb. 25	1		Cases, 4; deaths, 3. Sept. 25-Dec. 18, 1918; Cases, 172;
MIG-Java			•••••	deaths, 3. Jan. 24-30, 1919:
				Case, 1.
West Java				Oct. 2-Dec. 11, 1918: Cases, 809; deaths, 263. Dec. 27, 1918- Apr. 7, 1919: Cases, 710; deaths,
Batavia	Oct. 2-Dec. 11	185	151	deaths, 263. Dec. 27, 1918-
Do	Dec. 27-Apr. 17	54	31	153.
Lithuania				Sept. 1-Oct. 16, 1918: Cases, 44.
Manchuria:	•••••	•••••		
Dairen	Jan. 15-21	1		
Do	Feb. 22-May 12	7	3	
Mesopotamia:	O-4 11 D 07	308	97	
Bagdad	Oct. 11-Dec. 27 Dec. 28-Feb. 9	300	91	
Do	Dec. 20-Feb. 8	٥		
Ciudad Juarez	Nov. 24-30	1		
Guadalajara	Mar. 1-31	1.		•
Do	Mar. 29-Apr. 30	1		D
Guaymas	O4 00 Dec 00	23	••••••	Present in April and May, 1919.
Mexico City	Sept. 22-Dec. 28 Dec. 29-May 3	28		
DoVera Cruz	Feb. 10-Apr. 12	. 2	····i	•
Newfoundland				Outports-Dec. 6-27, 1918: Cases,
St. Johns	Dec. 6-20	4		78. Dec. 28, 1918–June 13, 1919:
Do	Jan. 24-June 13	71		Cases, 351. Aug. 1-31, 1918: Cases, 133, oc-
Panama	Dec 15 91	····i	•••••	eurring at Colon, Panama, and
Colon	Dec. 15-21 Dec. 29-Feb. 9	8	••••••	points in the interior. Jan.
Do Philippine Islands:	Dec. 25-1 CD. 7	°		1-25, 1919; Cases, 28.
Manila	Nov. 2-16	. 5	3	•
Do.	Dec. 29-Apr. 19	43	22	Varioloid, 16.
Portugal:		[*		
Lisbon	Nov. 16-Dec. 28	843	121	
Oporto	Mar. 9-May 24	176	121 1	

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

SMALLPOX-Continued.

Place.	Date	Cases.	Deaths.	Remarks.
Portuguese East Africa:				
Lourenco Marques				July 1-Oct. 31, 1918: 45 fatal cases
Siberia: Vladivostok	Nov. 1-3	4	1	
Do	Jan. 17–23		1	• •
Do	Jan. 17–23 Feb. 1–Mar. 15	16	i i	
Spain:	1 · .		1	
Barcelona	Jan. 9-Feb. 11		5	
Do	Feb. 19- May 14 Jan. 1-Feb. 20 Oct. 1-Dec. 31	6	9	
Bilbao	Jan. 1-1 eb. 20	6 18		
Do	Jan. 1-Mar. 31	10	35	
Madrid	Sent 1-Oct 31		153	
Do	Jan. 1-Apr. 30. Nov. 1-Dec. 31 Jan. 1-Mar. 31		85	i .
Seville	Nov. 1-Dec. 31		8	The second secon
Do	Jan. 1-Mar. 31		5	1
Valencia	Nov. 10-Dec. 31	40	9	
Do	Dec. 29-Jan. 25	93 635	10 54	
Do Straits Settlements:	Feb. 16-May 10	000	04	
Penang	Oct. 6-12	1		
Singapore	Feb. 2-22.	3		
Sweden:		1		
Stockholm	Feb. 2-8	l	1	
Cunis:	I i		1 .	• :-
Tunis	Apr. 26-May 8	5	1	
Union of South Africa:	1	1 -	I	
Cape Town	Aug. 1-30 Dec. 21-Jan. 31	1		
Do	Aug. 1-Oct. 31	1 12		Nov. 1-30: Cases, 4.
Johannesburg On vessels:	I	1		110V.1-50. Cases, 2.
S. S. Euripides	Mar. 21	1		From England via Suez an
-	:			Colombo. Case removed a
Saturday St. 199		i		Colombo. Case removed a Colombo. Vessel arrived Fre
	1_1			mantle, Australia, Apr. 10.
8. S. Port Sydney	Mar. 13	1	1	From Egypt to Australia vi
Compared to the compared of			1	Colombo. Arrived Fremanti Mar. 31.
S. S. Ulimaroa	Mar. 26	1		From Egypt via Colombo Cas
5 · · · · · · · · · · · · · · · · · · ·	mai. w			developed after arrival a
Switch and the second of the second			į	Colombo. Vessel arrived a
With the second				developed after arrival a Colombo. Vessel arrived a Fremantle, Australia, Apr. 8.
				Colombo. Vessel arrived at Fremantle, Australia, Apr. 8.
	турни	B PEVE	 R. •	Colombo. Vessel arrived a Fremantle, Australia, Apr. 8.
	турния	B PEVE	R.	Colombo. Vessel arrived a Fremantle, Australia, Apr. 8.
Algeria:		<u> </u>	R.	Colombo. Vessel arrived a Fremantle, Australia, Apr. 8.
Algeria: Algiers	TYPHUs	B PEVE	R.	
Algeria: Algiers		<u> </u>	R.	Dec. 1, 1918-Jan. 11, 1919: Cases
Algeria: Algiers		<u> </u>	B.	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919
Algeria: Algiers Austria	Nov. 1-30 Dec. 1-Jan. 11	<u> </u>	R.	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in
Algeria: Algiers		1	R.	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their
Algeria: Algiers	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15	1 110 410	B.	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in
Algeria: Algiers Austria Vienna Do. Brazil: Ceara	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21	1 110 410 1	R.	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their
Algeria: Algiers	Nov. 1-30	1 110 410 1 2		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their
Algeria: Algiers Austria Vienna Do Brazil: Ceara Rio de Janeiro Do	Nov. 1-30	1 110 410 1 2 29	R	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their
Algeria: Algiers Austria Vienna Do. Brazil: Ceara Rio de Janeiro Sao Paulo.	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21	1 110 410 1 2		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their
Algeria: Algiers	Nov. 1-30	1 110 410 1 2 29		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their contacts.
Ligeria: Algiers Lustria Vienna Do. Brazil: Ceara Rio de Janeiro Sao Paulo. Sulgaria: Astevem	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10	1 110 410 1 2 29		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers	Nov. 1-30	1 110 410 1 2 29		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatriated soldiers and their contacts.
lgeria: Algiers Lustria. Vienna Do. Brazii: Ceara. Rio de Janeiro. Do. Sao Paulo. Sulgaria: Aeteven. Rustchuk.	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15	1100 4100 11 220 3		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15	110 410 1 2 29 3		Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
lgeria: Algiers	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15 Jan. 6-Apr. 20	1100 4100 1 1 2 290 3 8	3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15 Jan. 6-Apr. 20	1 110 410 1 2 29 3	3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15	1100 4100 1 1 2 290 3 8	3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers Algiers Vienna Do. Brazil: Ceara Rio de Janeiro Do. Sao Paulo. Bulgaria: Aeteven Rustchuk China: Antung Do. Chosen (Korea): Fusan Seoul	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15 Jan. 6-Apr. 20 Feb. 1-28 Jan. 1-Feb. 28	1 110 410 1 2 29 3	3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers. Austria. Vienna. Do. Brazil: Ceara. Rio de Janeiro. Do. Sao Paulo. Sulgaria: Aeteven. Rustchuk. China: Antung. Do. Chosen (Korea): Fusan. Seoul.	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 27-15 Jan. 6-Apr. 20 Feb. 1-28 Jan. 1-Feb. 28 Nov. 8-Dec. 28	110 410 11 22 29 3	3 3 1 1 1 1	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively is repatristed soldiers and their contacts. Present.
Algeria: Algiers Austria. Vienna Do Brazil: Ceara Rio de Janeiro Do Sao Paulo Bulgaria: Aeteven Rustchuk China: Antung Do Chosen (Korea): Fusan Sooul Colombia: Barranquilla Do	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15 Jan. 6-Apr. 20 Feb. 1-28 Jan. 1-Feb. 28	1 110 410 1 2 29 3	3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatristed soldiers and their contacts. Present.
Algeria: Algiers. Algiers. Austria. Vienna. Do. Brazil: Ceara Rio de Janeiro. Do. Sao Paulo. Bulgaria: Aeteven. Rustchuk. China: Antung. Do. Chosen (Korea): Fusan Seoul. Colombia: Barranquilla Do. Ggypt:	Nov. 1-30	110 410 12 29 8 8 11 12 2	3 3 1 1 1 1	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatristed soldiers and their contacts. Present.
Algeria: Algiers Austria. Vienna. Do. Brazil: Ceara. Rio de Janeiro. Do. Sao Paulo. Bulgaria: Aeteven. Rustchuk. China: Antung. Do. Chosen (Korea): Fusan Seoul. Colombia: Barranquilla Do. Sypt: Alexandria.	Nov. 1-30 Dec. 1-Jan. 11 Jan. 12-Mar. 15 Sept. 14-21 Dec. 15-22 Dec. 29-Feb. 22 Jan. 13-19 Mar. 10 do Dec. 2-15 Jan. 6-Apr. 20 Feb. 1-28 Jan. 1-Feb. 28 Nov. 8-Dec. 28 Jan. 5-Mar. 8 Oct. 14-Dec. 31	110 410 11 22 29 3	1 1 1 3 3 3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively in repatristed soldiers and their contacts. Present. Do. Comfined to one quarter of city
Algeria: Algiers. Algiers. Austria. Vienna. Do. Brazil: Ceara Rio de Janeiro. Do. Sao Paulo. Bulgaria: Aeteven. Rustchuk. China: Antung. Do. Chosen (Korea): Fusan Seoul. Colombia: Barranquilla Do. Ggypt:	Nov. 1-30	1 110 410 1 2 29 3 1 1 12	1 1 1 3 3 3	Dec. 1, 1918-Jan. 11, 1919: Cases 125. Jan. 12-Mar. 15, 1919 Cases, 479. Occurring almost exclusively ir repatristed soldiers and their contacts. Present. Do.

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Finland	••••			Jan. 1-Apr. 15, 1919: Cases, 80.
Provinces— Abo Och Björneborg	Jan. 1-Apr. 15	61	1	
Nyland	do			1
Uleahorg	do	i		1
Uleaborg Viborg	Apr. 1-15	1]
France:		ł	1 .	
Marseille	Mar. 1-31	·		. Apr. 26, 1919, present in 2 civil
Germany:	Cant 90 Oct 10	12	8	and 2 military prisons.
BreslauGumbinnen district	Sept. 29-Oct. 19 Oct. 20-Nov. 7	1		
Dresden	do	î		
Griefswald	do	1		
Godullahutte	do	1		***
Königsberg	Sept. 29-Oct. 19 Oct. 20-Nov. 7	3.	1	
Königshutte	do	2	. 1	
Magdeburg	do Sept. 29-Oct. 19	7	2	District of Allenstein.
MostaltenOppelm district	Oct. 23-Nov. 7	5		District of Ithonistonia.
Great Britain:			1	1
Cork	Feb. 2-Mar. 22	4	1 , 1,	
Glasgow	Dec. 22-28	5		
100	Jan. 5-Feb. 8	9	1	
Do Liverpool	Mar. 9-15 May 11-17	1		From vessel.
Greece:	may 11-11	•		110H 168501.
Athens	Mar. 8	2	2	.,,
Saloniki	Sept. 29-Dec. 21		34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Do.	Dec. 29-May 10		117	
Hungary		• • • • • • •		Sept. 9-Nov. 26, 1918: Cases, 110;
	·		`	deaths, 8. Nov. 27, 1918-Feb. 2, 1919: Cases, 473.
Dudament	Sept.3-Nov.26	75	2	2, 1919. Cases, 475.
Budapest Do:	Jan. 13-Feb. 2	131	1 7	Nov. 27, 1918-Jan. 12, 1919: Cases,
			l .	159.
Debreczin	Jan. 20-Feb. 2	42]	the state of B
Pressburg	Sept. 29-Nov. 6	11	1 [*]	†
Szatmarneneti	Nov. 4-26dodo	1		Present in county of Bihar.
Tyrnautaly:	uo			Carrier St. Carrier
Aquila Province	Apr. 28-May 4	24	l	One locality. Prisoners of war.
Arezzo Province	Apr. 7-May 4	5		At Arezzo.
Avellino Province	Apr. 28-May 4	1		
Bari Province.	Feb. 3-May 4	19		
Belluno Province Caltanisetta Province	Apr. 7-13 Apr. 28-May 4	. 1		
Caserta Province	do	85		•
Florence	Apr. 7-May 4	22		
Genoa	Apr. 28-May 4	- 6		
Leghorn	Apr. 14-27	9	2	
Naples Novara Province	Feb. 3-May 11	15		
Pisa Province	Apr. 7-13	1 4		
Porto Maurizio Province	do	i		
Reggio Calabria Province	do	i l		
Rome Province	do	17		
Salerno l'rovince	do	5		
Taranto	Feb. 3-Apr. 13	.4		At Cividale, 11 cases; at Udine, 2.
Udine Province	Apr. 7-13 Apr. 28-May 4	13		At Cividale, 11 cases; at Odino, 2.
apan:	лрг. 20-мау 4	٩		
Nagasaki	Nov. 10-Dec. 29	13	4	
	Dec. 30-May 4	53	6	
ava:		1	- 1	O-4 7 01 1010: G 7
East Java	0-4 7 01	•••••		Oct. 7-21, 1918: Cases, 5.
Surabaya Mid-Java	Oct. 7-21	*		Sept. 25-Oct. 16, 1918: Cases, 3.
West Java				Oct. 2-23: Cases, 31: deaths, 6,
Batavia	Oct. 2-23	15	4	
ithuania				Sept. 1-Oct. 26, 1918: Cases, 539;
Aacedonia:				deaths, 26.
Drama	Mar. 17			Present. Do.
	3/ 01			
Enirus	Mar. 21	200		
Epirus	Mar. 21	300		Estimated.
Epirus	Mar. 21	300 2 15	2	

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

TYPHUS FEVER—Continued.

Place	Date.	Cases.	Deaths.	Remarks.
Mexico:				
Aguascalientes	Feb. 2-23 Mar. 24-Apr. 13		3	
Do	Mar. 24-Apr. 13		4	
Guadalajara	Nov. 1-Dec. 31	9	1	
Do	Jan. 1-Apr. 30 Sept. 22-Dec. 28		5	
Mexico City	Dec. 29-May 3	644		•
Do Netherlands:	Dec. 2:1-May 3	011		
Amsterdam	Dec. 8-14	1	L	
Do	Jan. 12-Apr. 12	6		
Delft	Feb. 23			Present.
Harlem	do			Do.
Leiden	ldo			Do.
Limburg	do	5	1	Mining distruct.
Naaldwijk	do. Mar. 30-Apr. 19 Feb. 2-Apr. 12	4		
Rotterdam	Feb. 2-Apr. 12	507	90	Jan. 30-Feb. 27, 1919: Cases, 462
				deaths, 46.
Schiedam	Feb. 26			Present.
Wateringen	Mar. 30-Apr. 5	1		Camb 00 Oct 05 1019; Pages 276
Poland				Sept. 29-Oct. 26, 1918; Cases, 572 deaths, 50.
Lode	Comt no Cot ne			ucatus, oo.
Lodz. Warsaw	Sept. 29-Oct. 26	55 111	8	
	1	. 111	10	
Braga	Mar. 24			
Oporto.	Mar. 8-May 10	889		
lussia:		0.50		
Archangel	Jan. 15-Apr. 15	224	63	
lerbia:	· ·			
Belgrade	Feb. 5	62		Among soldiers and prisoners.
iberia:	أمم حييا			
Vladivostok	Sept. 1-Dec. 30	43		
Do	Jan. 17-Mar. 15	143	15	
Huelva	Oct. 1-31		2	-
Madrid	Dec. 1-31	• • • • • • • •	î	
Cunis:	Dat. 1-01	•••••		4.5
Tunis	Apr. 12-May 8	4	2	
krania				Apr. 5. 1919: Reported to be
Jnion of South Africa:				spreading.
Port Elizabeth				
	Sept. 14-23			
	Sept. 14–23			interior towns.
A	Sept. 14-23			
	YELLOW	FEVE	R.	
<i>x</i> , <i>x</i> ,		FEVE	R.	Present among natives in severa interior towns.
Brazil:	YELLOW			
Brazil: Bahia	YELLOW	5 2	2	
Brazil: Bahia Pernambuco	YELLOW	5		
Brazil: Bahia Pernambuco cloimbia: Cartagena	YELLOW	5	2	
Brazil: Bahia Pernambuco Olombia: Cartagena	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4	5 2	2	
Brazil: Bahia Pernambuco clombia: Cartagena cuador: Babahovo.	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30	5 2 1	2	
Brazil: Bahia Pernambuco Olombia: Cartagena Ecuador: Babahoyo Do	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15	5 2 1 1	2	
Brazil: Bahia	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15	5 2 1 1 1	2	
Brazil: Bahia. Pernambuco. clombia: Cartagena. cuador: Babahoyo. Do. Catarama Chobo.	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15	5 2 1 1 1	2 1 4	
Brazil: Bahia Pernambuco Olombia: Cartagena Cuador: Babahoyo Do Catarama Chobo Daule	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 do	5 2 1 1 1 1	2 1 4	
Brazil: Bahia. Pernambuco. olombia: Cartagena. cusador: Babahoyo. Do. Catarama. Chobo. Daule.	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 do	5 2 1 1 1 1 1 1 1 1 3	2 1 4	
Brazil: Bahia Pernambuco cloimbia: Cartagena cuador: Babahoyo Do Catarama Chobo Daule Duran	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 do	5 2 1 1 1 1 1 3 5	2 1 4	
Brasil: Bahia. Pernambuco. Polombia: Cartagena. Ecuador: Babahoyo. Do. Catarama Chobo. Daule. Duran. Do. Gusyaquil	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 do Nov. 1-Dec. 31 Nov. 1-Dec. 31 Jan. 16-Mar. 1b July 1-Dec. 31	5 2 1 1 1 1 1 3 5	2 1 4	
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Brasil: Bahla. Pernambuco. Polombia: Cartagena. Ecuador: Babahoyo. Do. Catarama Chobo. Daule. Duran. Do. Guayaquil. Do. Hacienda Vainilla. Milagro. Do. Naranjal.	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 Nov. 1-Dec. 31 Jan. 16-Mar. 1b July 1-Dec. 31 Jan. 1-Mar. 31 Feb. 16-28 Nov. 1-15 Feb. 1-Mar. 15 Nov. 1-15 Fob. 1-Mar. 15 Nov. 1-15	5 2 1 1 1 1 1 3 5 326 124 1 1 1	2 1 4 1 2 1 177 68	
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Brazil: Bahia Pernambuco Polombia: Cartagena Scuador: Babahoyo. Do. Catarama Chobo. Daule Duran Do. Gusyaquil Do. Hacienda Vainilla Milagro Do. Naranjal Do. Naranjito Do. Payo (Hacienda) Punta de Piedra	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 Jan. 1-15 do Nov. 1-Dec. 31 Jan. 16-Mar. 15 July 1-Dec. 31 Jan. 1-Mar. 31 Feb. 16-28 Nov. 1-15 Feb. 1-Mar. 15 Nov. 1-15 Jan. 1-15 Nov. 1-15 Jan. 1-15 Nov. 1-15 Jan. 1-15 Nov. 1-15 Jan. 1-15 Nov. 1-15 Jan. 1-15 Nov. 1-15 Jan. 1-Feb. 28	5 2 1 1 1 1 3 3 326 124 1 1 2 1 1	2 1 4 1 2 1 177 68	
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Brazil: Bahia. Pernambuco. Jolombia: Cartagena. Scuador: Babahoyo. Do. Catarama. Chobo. Daule. Duran. Do. Guayaquil. Do. Hacienda Vainilla. Milagro. Do. Naranjal. Do. Naranjito. Do. Payo (Hacienda). Punta de Piedra. San Salvador.	YELLOW Jan. 12-Mar. 1 Oct. 1-Nov. 30 Jan. 29-Feb. 4 Nov. 1-30 Mar. 1-15 Feb. 1-15 do Nov. 1-Dec. 31 Jan. 16-Mar. 15 July 1-Dec. 31 Jan. 1-Mar. 31. Feb. 16-28 Nov. 1-15 Feb. 1-Mar. 15 Nov. 1-15 Jan. 1-Feb. 28 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15 Nov. 1-15	5 2 2 1 1 1 1 3 3 5 3 2 6 1 2 4 1 1 1 2 2 1 1 1 2 2 1 1	2 1 4 1 2 1 177 68	
Brazil: Bahia Pernambuco Colombia: Cartagena Scuador: Babahoyo Do Catarama Chobo Daule Duran Do Guayaquil Do Hacienda Vainilla Milagro Do Naranjal Do Naranjito Do Payo (Hacienda) Punta de Piedra	YELLOW Jan. 12-Mar. 1. Oct. 1-Nov. 30. Jan. 29-Feb. 4. Nov. 1-30. Mar. 1-15. Jan. 1-15. Jan. 1-15. Jan. 16-Mar. 15. July 1-Dec. 31. Jan. 16-Mar. 15. Nov. 1-15. Feb. 1-Mar. 15. Nov. 1-15. Feb. 1-5-28. Nov. 1-15. Jan. 1-15. Nov. 1-15. Jan. 1-15. Nov. 1-15. Jan. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15. Nov. 1-15.	5 2 2 1 1 1 1 3 3 226 124 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 4 1 2 1 177 68	