

# PUBLIC HEALTH REPORTS

VOL. 33

DECEMBER 27, 1918

No. 52

## EPIDEMIC INFLUENZA.

### PREVALENCE IN THE UNITED STATES.

On page 2329 of this issue of the Public Health Reports, under the heading "Current State Summaries," are given telegraphic reports of the presence of communicable diseases in the States which have reported for the week ended December 21, 1918.

In most of the States the number of cases of influenza is less than was reported for the preceding week, but slight increases are noted in Michigan, New Jersey, Maine, and in parts of New York State.

The reports from the zones around military camps, which are given on page 2334, also show a reduction in the number of cases as compared with the preceding week, except in the zones around Camp Devens, Mass., Camp Dix, N. J., Camp Doniphan, Okla., Camp Humphries, Va., Camp Lewis, Wash., Fort Oglethorpe, Ga., and in the civil sanitary districts near New London, Conn., Portsmouth, N. H., Kittery, Me., Newport News, Va., and Gulfport, Miss. In these zones slight increases in the number of cases reported are noted.

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## PRELIMINARY STATISTICS OF THE INFLUENZA EPIDEMIC.<sup>1</sup>

By EDGAR SYDENSTRICKER, Public Health Statistician, United States Public Health Service.

It must be obvious that it is too soon to attempt any satisfactory presentation of the statistics of the present influenza epidemic for the country as a whole. The epidemic and its immediate after effects are not yet ended. Sufficient opportunity has not been afforded for proper inquiry into the dates of its first manifestations in various localities. Its complete chronology, therefore, can not be recorded at this time. For the same reason statistics of its incidence and prevalence are not only incomplete, but the task of collecting such records as have been made is barely under way.

If time and labor were the only requisites for complete statistics of the epidemic, however, the outlook from the point of view of statistical analysis would be an encouraging one. So far as morbidity prevalence and incidence of the disease are concerned, the

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<sup>1</sup> Read before the section on vital statistics of the American Public Health Association, Chicago, December 9, 1918.

outlook is anything but encouraging. Were there any necessity for demonstrating the utter inadequacy and lack of uniformity of morbidity reporting in the United States, such a demonstration would be fully available in the experience afforded during the present epidemic. The shortcomings of morbidity statistics already are so well known that it is unnecessary to refer to them in detail. Their chief fault—incompleteness—was immeasurably increased by the unusual circumstances that prevailed. Among these circumstances were the magnitude of the epidemic in a large number of localities, the congestion of cases at and near the peak of the epidemic, the tendency to cease reporting toward the end of the epidemic, the breakdown of the more or less elaborate system of individual card reports which called for unessential as well as essential data, and the depletion of the reporting personnel—the practicing physicians—by service in the armed forces and by the disease itself. In addition to these unusual conditions was the fact that in practically no State or locality had influenza been a reportable disease prior to the 1918 epidemic, and that in perhaps a very large proportion of localities it was not made a reportable disease until the epidemic was well under way.

In studying the prevalence of influenza, therefore, we are confronted with serious obstacles, among which may be mentioned the following: (1) In practically no locality can it be assumed that complete reports of cases were made; a true prevalence rate can not be computed. (2) Since the disease was not reported with any degree of comparable completeness in different localities, comparisons of localities for prevalence obviously are impossible. (3) For the same reasons, statements of the incidence according to sex, age, or of any other condition with which it might be desirable to attempt correlations are not feasible, except in very general terms. (4) The chronology of the epidemic in perhaps the great majority of localities has not been recorded, and if recorded is subject to serious errors with respect to the beginning of the epidemic and the true height of the peak. (5) Fatality rates manifestly can not be ascertained. With the exception of data obtained from special field studies and from limited areas and population groups, we must look to mortality reports for our main statistics of the epidemic.

#### THE COLLECTION OF STATISTICS OF THE EPIDEMIC.

It may be of interest, and it is properly pertinent as an introduction to the few general observations that follow in this brief comment, to state in a few words what the Public Health Service did and is now doing to obtain reports of morbidity and immediate reports of mortality from influenza. For some time a standing direction and request to field officers and collaborating epidemiologists of the

Public Health Service in various States and State health officials has been that any unusual appearance of a disease be reported by telegraph to the Bureau of the Public Health Service, in Washington. In addition to this, weekly and monthly reports of the prevalence of certain diseases are received from States and a large number of cities. Although influenza was not on the list of reportable diseases, many localities included it in the list soon after it became epidemic. The reported presence of an influenza epidemic in Europe caused the regular reports to be scanned with more than ordinary interest, and special directions were sent to various field officers and hospitals of the service to report any appearance of the disease or of an influenzalike disease. On September 18 telegrams were sent to all State health officers to wire information concerning the appearance and prevalence of the disease and to keep the Public Health Service constantly advised as to its manifestations within their States. In response to these directions and requests information, principally of a summarized nature, came daily. When the epidemic, soon after the 1st of October, apparently was reaching serious proportions telegrams were sent to all State health officers requesting daily telegrams as to the number of deaths occurring in all the principal cities. This telegram was shortly supplemented by further telegrams assuming the cost of telegrams from local health departments to the State health departments as well as the cost of messages from the State health departments to the Bureau of the Public Health Service at Washington. These telegrams were continued for over three weeks when, because of the evident decline of the epidemic in the country as a whole and because of the heavy cost of telegraphic reports, they were discontinued, except for localities where the epidemic had not passed its peak. Daily summary statements from State health departments were continued, however, as long as it appeared necessary in addition to the usual notification by wire and by mail of disease prevalence.

The data thus obtained served principally as an indication of the prevalence of the epidemic and did not afford complete enough statistics for analysis from any point of view, either for deaths or for cases, except for a comparatively small number of localities. Information of varying degrees of accuracy and completeness was received from several thousand localities, and has already been summarized in what appeared to be the most practicable form in the Public Health Reports. In order to supplement these data requests accompanied with blank forms were sent to all local health subdivisions of the United States through the cooperation of State health departments asking for the following information: (1) Number of cases of influenza reported by days; (2) number of deaths reported by date of death (if possible), or by days on which they were re-

ported, from influenza and from pneumonia; (3) a statement as to whether or not the case reports show date of onset and sex and age of person affected and the date on which influenza was made a reportable disease. These reports are being collected now. It is hoped to obtain from these inquiries as complete chronological data as have been actually recorded in various localities and to ascertain in what localities the data may lend themselves to more detailed inquiry and analysis.

For the purpose of securing certain further data as to chronology, actual prevalence and sex and age incidence, mortality and fatality, as well as for the purpose of analysis from other points of view (such as congestion in homes, duration and severity and type of attack, economic conditions, and the like), certain field studies have been undertaken in Baltimore and in other urban and rural areas in Maryland, and in several localities in other States which are believed to be representative of various sections of the country. These studies are being made by house-to-house canvasses of various areas, the census of the population visited being in all cases ascertained. Steps have also been taken to cooperate with the Federal Bureau of the Census and various State and other agencies for the tabulation of certain mortality and morbidity records for the purpose of rendering available at the earliest possible date a sufficient amount of data for epidemiological and analytical study.

#### SOME PRELIMINARY STATISTICS.

In the following comment upon such fragmentary statistics as are available at this writing, no attempt has been made to suggest any conclusions except in a most tentative way. With the limitations of the data in mind, a preliminary presentation of the following is made:

1. The movement chronologically of the epidemic in the United States as suggested by reports from about 375 localities.
2. An estimate of the total mortality so far experienced.
3. A consideration of the mortality rate from the epidemic in nearly 120 cities and towns from the points of view of their size and their geographical location and of the chronological order in which their death rate was first affected by the epidemic.
4. The course of the epidemic (or type of epidemic curve) in various localities in relation to the size of the locality and in relation to the occurrence of a secondary epidemic or "recrudescence."
5. The incidence of cases and of deaths according to age in certain areas in Baltimore selected at random in a field study.
6. The chronological relation of the onset of influenza cases of more or less severe types to onset of cases of pneumonia and to mortality from influenza and pneumonia in the areas canvassed in Baltimore.

### 7. Variations in incidence among areas canvassed in Baltimore.

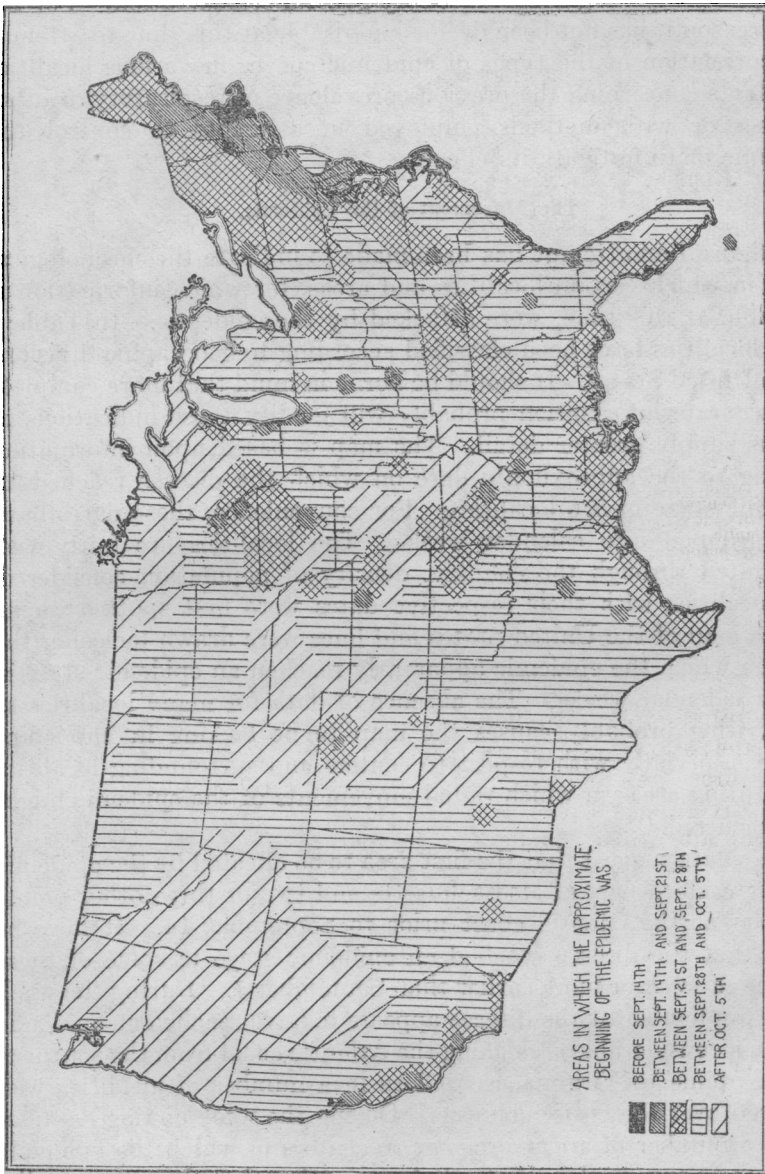
Pathometrical analyses have not been attempted for the obvious reason that the data at present available are not accurate or complete enough for anything more than very general consideration. For the same reason it has not been deemed advisable at this time to attempt any correlation of the types of epidemic curves in various localities with facts concerning the previous prevalence of respiratory or other diseases or with methods employed in attempts to control the epidemic or to mitigate its effects.

#### The Movement of the Epidemic.

In figure 1 an attempt has been made to indicate the chronological order in which certain localities and areas, for which information is available at this time, were attacked by the epidemic. In Table 1 these localities have been classified according to geographic divisions of the United States. It should be borne in mind that more complete and accurate information probably will modify these indications as well as supply greater detail. The map is based upon information relating to the approximate date on which the disease reached an epidemic stage in 376 localities. For convenience, these dates have been grouped into calendar weeks. The localities are fairly well distributed through the country, density of population considered. The localities with their respective dates were first spotted on an outline map of the United States and lines were drawn inclosing the areas in which the epidemic apparently reached an epidemic state in similar calendar weeks. The absence of data for many localities at this writing probably causes the map to be lacking in important details, especially with respect to centers and surrounding localities constituting areas in which radial movements of the epidemic might have occurred.

These data suggest that the first area to be affected by the epidemic was the eastern part of Massachusetts and two or three other points near the north Atlantic coast prior to September 14. It may be stated that the disease reached an epidemic stage in some of these localities a week or more earlier than September 7. During the week ending September 21 the disease appears to have reached an epidemic stage in a considerable area along the Atlantic coast from the southern part of Maine to Virginia, as well as in a number of localities well scattered over the entire country. During the week ending September 28 a number of areas adjacent to centers in which the epidemic had already appeared were affected, suggesting that there were radial movements from these centers, and epidemic proportions were attained in large portions of the New England States, the North Atlantic, the Central States, and in areas bordering along the Gulf

and Pacific coasts. During the week ending October 5, the epidemic apparently had appeared in points all over the country except in the more isolated rural sections and in large areas in the Central States,



Chronological map of the influenza epidemic of 1918. Based on preliminary reports from 376 localities. Indicating the approximate dates on which the disease reached an epidemic stage.

in the Mountain States, and in the northwest section. By the middle of October reports from even these sections indicated that the disease had attained epidemic proportions in practically all of the remaining areas, except in the more isolated rural sections.

TABLE 1.—Number and per cent of localities in each geographic division of the United States, classified by the weeks in which influenza was reported to have reached an epidemic stage.<sup>1</sup>

Geographic division.	Number of localities reporting.	For week ending—									
		Sept.				Oct.				Nov. 2.	
		7 <sup>2</sup>	14	21	28	5	12	19	26		
Number.											
New England.....	40	4	7	18	11						
Middle Atlantic.....	23		1	8	9	5					
East North Central.....	34			4	7	19		1			
West North Central.....	58		1	4	7	27	13	2	4		
South Atlantic.....	40			9	17	12	2				
East South Central.....	38			2	16	19	1				
West South Central.....	39			3	11	21	3	1			
Mountain.....	59			1	6	27	16	5	3	1	
Pacific.....	45			2	10	13	10	7	3		1
<b>Total.....</b>	<b>376</b>	<b>4</b>	<b>9</b>	<b>51</b>	<b>94</b>	<b>143</b>	<b>48</b>	<b>16</b>	<b>10</b>	<b>1</b>	
Per cent.											
New England.....	100	10	17	45	28						
Middle Atlantic.....	100		4	35	39	22					
East North Central.....	100			12	21	56	9	3			
West North Central.....	100		2	7	12	47	22	3	7		
South Atlantic.....	100			23	42	30	5				
East South Central.....	100			5	42	50	3				
West South Central.....	100			8	28	54	8	3			
Mountain.....	100			2	10	46	27	8	5	2	
Pacific.....	100			4	22	29	22	16	7		
<b>Total.....</b>	<b>100</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>25</b>	<b>33</b>	<b>13</b>	<b>4</b>	<b>3</b>		

<sup>1</sup> These reports are in many cases preliminary ones and are subject to correction. <sup>2</sup> Prior to Sept. 7.

The outstanding fact, perhaps, is the extreme rapidity with which the epidemic spread after it attained the proportions of an epidemic in the first areas affected. The epidemic became nation-wide in four or five weeks after it appeared in an epidemic stage in the first localities affected. A fact of scarcely less importance is that the disease reached an epidemic stage in a number of localities in the central, northern, southern, and western sections at about the same time as it did in the area along the northeastern coast. The possibility is suggested, therefore, that sources of infection existed in at least some of the larger population centers, well distributed through the country, some time before the disease appeared as a nation-wide epidemic. The apparent radial spread of the epidemic from certain centers would seem to strengthen this hypothesis. It may also be noted that there is evidence, the collection of which has not yet been completed, pointing to the existence of cases of the disease in various centers, probably widely distributed, weeks before they were definitely recognized as influenza. The possibility that these foci themselves had a common focus is by no means excluded, of course, but there is as yet no conclusive evidence that would warrant the statement that the starting point of the epidemic was Boston or any specific locality.

Much interest has been attached to the belief that the Army camps acted as foci of the epidemic. It is true, that a comparison of reports from Army camps and from the adjacent cantonment zones shows that in most instances the disease was reported in the camps first. This, however, by no means proves that the camps were affected earlier than the zones. The data from the two kinds of areas may not be comparable because of a possibly greater promptness in reports in the camps than in the zones, and it would be improper to draw any conclusions until the results of further inquiries are available.

#### Severity of the Epidemic.

It is too early to make more than a guess at the toll exacted by the epidemic in this country. Statistics have not been compiled for the normal rate of mortality from pneumonia or other respiratory diseases or from all causes except for a comparatively small number of localities, and until this is done it is manifestly impossible to ascertain how much mortality can be charged to the epidemic. The fact that in many localities there is appearing a recrudescence of influenza or influenza-like cases must also postpone any final estimate of mortality from the disease. Much needs to be known about the methods of diagnosis as well. A very general estimate of the minimum number of deaths chargeable to the epidemic perhaps may be attempted by ascertaining the mortality rate from influenza and pneumonia for various localities and areas of different types and geographical location. Such a rate, roughly computed for something over 27,000,000 population, after weighting areas according to geographic location, appears to be about 4 per 1,000 of population. Allowing, however, for the apparently lower rate in many rural sections, a conservative estimate for the country as a whole would appear to be between 3 and 3.5 per 1,000. Upon this basis, the total number of deaths chargeable to the epidemic in the country as a whole would be between 300,000 and 350,000. This estimate is confessedly rough and intentionally is made conservative. A much larger number of deaths is believed by some to have occurred already.

#### Comparisons of the Mortality Rates in a Number of Cities.

The results of some preliminary comparisons of the mortality rates for cities according to size, geographic location, chronological order in which they were attacked, and the occurrence of the so-called recrudescence, may be given in a tentative way. The information at hand is only approximately accurate except for a limited number of larger centers. Pending the collection and tabulation of more complete data, the basis for these comparisons is the death rate from influenza and pneumonia (all forms) during the six weeks of highest



mortality from these causes. This information is available at this writing for 118 cities, ranging in population from 10,000 to the largest population centers. Comparable data for rural areas are not yet available.

Extremely wide differences in these death rates are shown among these 118 cities, varying from 0.8 per 1,000 to more than 10 per 1,000. The largest variations were found among cities of less than 50,000 population; this, however, possibly is due in part to errors in the 1918 population estimates. But among the larger cities, wide variations in the death rates—from 1 to 8 per 1,000<sup>1</sup>—are also indicated.

*Mortality rates compared for localities of different size.*—In Tables 2 and 3 the 118 localities are grouped according to size. The average mortality rate has been computed for various classes of localities (Table 2) and the distribution of localities within each population class according to mortality rate has been found (Table 3).

It appears quite evident that there is no well-defined relation between the mortality from the epidemic and the size of the locality.

Sufficiently wide differences in size among the smaller number of cities for which mortality data are furnished by the Federal Census Bureau permit a similar comparison. (See Table 4.) The mortality data for these cities are more complete, covering a period of 10 weeks (from Sept. 8 to Nov. 16, inclusive). They do not, however, suggest any definite relation between the mortality rate and the size of the city.

TABLE 2.—*Mortality death rate per 1,000 of population from influenza and pneumonia (all forms) during 6 epidemic weeks compared for groups of cities classified according to size.*<sup>2</sup>

Population class.	Number of cities reporting.	Total population of cities in each class.	Deaths from influenza and pneumonia (all forms) in 6 epidemic weeks.	
			Number.	Per 1,000 population.
Under 25,000.....	23	425,388	2,542	6.0
25,000 to 50,000.....	23	880,054	4,311	4.9
50,000 to 75,000.....	16	1,006,270	3,830	3.8
75,000 to 100,000.....	4	339,621	931	2.7
100,000 to 125,000.....	10	1,140,118	5,696	5.0
Under 125,000.....	76	3,791,451	17,270	4.6
125,000 to 250,000.....	16	2,758,926	8,866	3.3
250,000 to 375,000.....	9	2,595,047	5,966	2.3
375,000 to 500,000.....	8	3,419,342	12,211	3.6
Under 500,000.....	100	12,564,766	44,413	3.5
500,000 to 1,000,000.....	6	4,136,867	16,520	4.0
1,000,000 and over.....	3	9,573,931	39,992	4.2

<sup>1</sup> Similar statistics for between 40 and 50 cities, all of which had populations of more than 100,000, for the 10 weeks from September 8 to November 16, indicate variations from 1.5 to 7.3 per 1,000. See United States Census: Weekly Health Index for December 3, Summary Table for the Influenza Epidemic.

<sup>2</sup> As reported to the United States Public Health Service and checked for certain cities with reports to the Bureau of the Census. The figures are subject to correction from more accurate and complete reports.

TABLE 3.—Variation in mortality rate from influenza and pneumonia (all forms) during six weeks of highest mortality among cities classified according to size.<sup>1</sup>

Population class.	Number of cities reporting.	Number of cities in which the mortality rate per 1,000 was—			
		Less than 2.	2-3.9	4-5.9	6 and over.
Under 25,000.....	23	2	5	9	7
25,000 to 50,000.....	23	1	11	2	9
50,000 to 75,000.....	16	1	11	2	2
75,000 to 100,000.....	4	2	1	1	0
100,000 to 125,000.....	10	0	2	5	3
Under 125,000.....	76	6	30	19	21
125,000 to 250,000.....	16	4	7	5	0
250,000 to 375,000.....	9	3	6	0	0
375,000 to 500,000.....	8	2	2	3	1
Under 500,000.....	109	15	45	27	22
500,000 to 1,000,000.....	6	1	2	2	1
1,000,000 and over.....	3	0	2	0	1

<sup>1</sup> As reported to the United States Public Health Service and checked for certain cities with reports to the Bureau of the Census. The figures are subject to correction from more accurate and complete reports.

TABLE 4.—Variation in mortality rate from influenza and pneumonia (all forms) in 36 cities with populations of more than 100,000, classified according to size.<sup>1</sup>

Population class.	Number of cities whose mortality rate per 1,000 was—					
	1-1.9	2-2.9	3-3.9	4-4.9	5-5.9	6 and over.
Less than 250,000.....	1	2	2	4	5	0
250,000 to 500,000.....	4	5	1	2	3	1
500,000 to 1,000,000.....	1	1	0	0	1	0
1,000,000 and over.....	0	0	2	0	0	1

<sup>1</sup> Mortality rate during 10 weeks, from September 8 to November 16, inclusive, as published in the Weekly Health Index of the U. S. Bureau of the Census for November 19, 1918.

*Mortality rates compared for localities classified according to the chronological order in which they were attacked by the epidemic.*—In Table 5 the 118 localities have been classified according to the chronological order in which they appeared (from the indication afforded by an abnormally high death rate from influenza and pneumonias) to be affected by the epidemic.

The general tendency appears to be suggested that the mortality rate decreased as the epidemic spread. The same indication is afforded by the statistics of mortality from influenza and pneumonias for 10 weeks (Sept. 8 to Nov. 16, inclusive) in a smaller number of cities with populations of more than 100,000.<sup>1</sup>

It is of interest to note in this connection that a similar suggestion is afforded in statistics of the epidemic in military camps in the

<sup>1</sup> Bureau of the Census: Weekly Health Index, November 19, 1918, Summary Table.

United States. The severity of the epidemic, as indicated by the case and mortality rate for pneumonia, declined as the epidemic spread among the camps, although the case rate for influenza increased.<sup>1</sup>

This tendency probably accounts for the fact that the mortality rate from the epidemic in cities situated in areas later attacked is lower in most instances than in cities situated in areas attacked early in the course of the epidemic.

TABLE 5.—*Severity of influenza epidemic, as indicated by deaths from influenza and pneumonia (all forms) during six weeks of greatest mortality in cities classified according to the week in which the mortality rate first appeared to be abnormally high.*

Week in which mortality rate from influenza and pneumonia (all forms) first appeared to be abnormally high.	Number of cities reporting.	Combined populations.	Deaths in six weeks of highest mortality.	Mortality rate per 1,000 in six weeks of highest mortality.	Number of cities whose mortality rate per 1,000 in six weeks of greatest mortality was—			
					Under 2.	2-3.9	4-5.9	6 or more.
Sept. 14.....	3	990,373	5,130	5.2	0	0	2	1
Sept. 21.....	10	807,216	3,337	4.1	0	4	5	1
Sept. 28.....	23	9,302,457	41,747	4.5	3	6	7	7
Oct. 5.....	46	6,573,078	22,484	3.4	3	22	8	13
Oct. 12 or later.....	32	3,043,073	8,030	2.6	9	15	7	1

#### Course of the Epidemic According to Locality: Types of Curve.

It is significant that a variety of types of epidemic curves are indicated in the chronological data for cases and deaths. While it is not practicable at this time to present the graphs in detail, the fact that considerable variation in the curves (as well as in the total mortality from the epidemic) exists may be noted as demanding the most careful study from the point of view of the possible relation of such conditions as the occurrence of previous epidemics of similar or related diseases, type of locality, composition of population, method of epidemic control, chronological order of attack by the epidemic, and other possible factors.

Some relation of the length and of the course of the epidemic to the size of the locality, however, is suggested by preliminary data summarized in Table 6. The weekly mortality rate from influenza and all forms of pneumonia for corresponding weeks, beginning with the week in which the mortality rate from these causes appeared to be abnormally high, is shown for groups of localities classified according to size. The resulting rates, if plotted, would show a composite curve for each class of localities. Keeping in mind the fact that the total mortality rate from the epidemic (from September to

<sup>1</sup> Soper, George A., major, S. C., United States Army: The Pandemic in the Army Camps. Journal of the American Medical Association, Dec. 7, 1918 (71:1901).

November, inclusive) did not appear to bear any relation to the size of the city, it may be noted that—

(1) The epidemic appeared to be of a more “explosive” type in smaller cities than in larger ones. It should be stated, however, that this observation may be made only of the composite curve and that notable exceptions occur. Philadelphia, for example, had an epidemic of an explosive type in common with many smaller cities, while instances are not infrequent among small localities of epidemics distinctly slow in development. This wide variation in type as well as in total mortality among cities of similar size and often among cities of similar geographical location suggests the presence of other factors more fundamental.

(2) While the statistics do not cover the entire period of the epidemic (i. e., the “primary” epidemic alone) it is indicated that the epidemic was of longer duration in larger cities than in smaller ones.

In order to correlate total mortality with length of epidemic and type of curve, more complete data will be necessary than are now available.

TABLE 6.—Number of deaths and death rate per 100,000 of population from influenza and pneumonia (all forms) for corresponding weeks after the beginning of the 1918 epidemic, compared for groups of cities of different size.

Population class.	Number of cities reporting.	Combined populations of cities in each class.	Week of epidemic.						
			First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
			Number of deaths.						
Under 25,000.....	23	425,388	99	257	537	701	512	308	.....
25,000 to 50,000.....	18	678,158	92	347	671	948	763	418	.....
50,000 to 75,000.....	14	880,751	101	325	761	869	578	404	.....
75,000 to 100,000.....	4	339,621	22	224	308	166	115	83	.....
100,000 to 125,000.....	10	1,140,118	92	563	1,204	1,479	1,363	723	329
Under 125,000.....	69	3,464,036	406	1,716	3,481	4,163	3,321	1,936	.....
125,000 to 250,000.....	16	2,758,926	204	718	1,783	2,519	1,906	1,170	600
250,000 to 375,000.....	9	2,595,047	220	528	1,018	1,394	1,279	958	629
375,000 to 500,000.....	8	3,419,342	152	651	2,401	3,446	2,848	1,749	835
Under 500,000.....	102	12,237,351	982	3,613	8,683	11,522	9,354	5,813	.....
500,000 to 1,000,000.....	6	4,136,867	139	611	1,892	3,846	3,810	2,624	1,782
1,000,000 and over.....	3	9,573,931	273	1,304	4,417	8,823	9,625	7,874	5,515
			Death rate per 100,000 of population.						
Under 25,000.....	23	425,388	23.3	60.4	123.3	165.0	120.4	72.4	.....
25,000 to 50,000.....	18	678,158	13.6	51.2	98.9	139.8	112.6	61.6	.....
50,000 to 75,000.....	14	880,751	11.5	36.9	86.4	98.7	64.5	45.9	.....
75,000 to 100,000.....	4	339,621	6.5	66.0	90.7	48.9	33.9	24.4	.....
100,000 to 125,000.....	10	1,140,118	8.1	49.4	105.6	129.6	119.5	63.4	28.9
Under 125,000.....	69	3,464,036	11.7	49.5	100.5	120.2	95.9	55.9	.....
125,000 to 250,000.....	16	2,758,926	7.4	26.0	64.6	91.3	69.1	42.4	21.8
250,000 to 375,000.....	9	2,595,047	8.5	20.4	39.2	53.8	49.3	36.9	24.3
375,000 to 500,000.....	8	3,419,342	4.4	19.0	70.2	100.9	83.3	51.2	24.4
Under 500,000.....	102	12,237,351	8.0	29.5	70.9	94.1	76.4	47.5	.....
500,000 to 1,000,000.....	6	4,136,867	3.4	14.8	45.8	93.0	92.1	63.4	43.1
1,000,000 and over.....	3	9,573,931	2.9	13.6	46.1	92.2	100.5	82.3	57.6

The question of the length of the epidemic and the total mortality chargeable to it, as well as of the type of the epidemic curve, is involved in the occurrence of recrudescences of influenza or of an influenza-like disease which have made their appearance in many localities. It is as yet too early to form very definite ideas as to the relation of this reoccurrence or recrudescence to the epidemic of September, October, and November, but it would appear that those cities which had a high mortality rate during the primary epidemic are less likely, so far as the data at hand indicate, to be seriously affected by an immediate reoccurrence or recrudescence, and vice versa. For 37 cities of 100,000 population or more for which the Bureau of the Census has published mortality figures from influenza and pneumonia (all forms) for the period September 8 to December 14, inclusive, the following comparisons may be made.

(1) Of 23 cities whose mortality from influenza and pneumonia (all forms) during the 10 weeks prior to November 17, 1918, was 3.0 per 1,000 or more—

(a) Twelve cities had a mortality rate from the same causes of less than 0.5 per 1,000 during the period November 17 to December 14, inclusive, and

(b) All of the 23 cities had a mortality rate from the same causes of less than 1.0 per 1,000 during the period November 17 to December 14, inclusive.

(2) Of 14 cities whose mortality from influenza and pneumonia (all forms) during the 10 weeks prior to November 17, 1918, was less than 3.0 per 1,000—

(a) None had a mortality rate from the same causes of less than 0.5 per 1,000 during the period November 17 to December 14, inclusive, and

(b) Nine cities had a mortality rate from the same causes of 1.0 per 1,000 or more during the period November 17 to December 14, inclusive.

A similar observation may not be true in all instances, of course, of the case rate for influenza, since the mortality rate might be an indication merely of the severity of the recrudescence rather than of its occurrence. A less definite relation is actually indicated when similar comparisons are made for the case rates during the primary epidemic and during the recrudescence in certain cities and towns in cantonment zones.

## Incidence According to Age.

The partial results of certain field studies undertaken in Baltimore are presented in Table 7, which shows the incidence of the disease according to age among the populations of a number of blocks selected at random.<sup>1</sup>

Among a population of 16,797, it was found that the case incidence rate was nearly 250 per 1,000, and the mortality rate 4.4 per 1,000. It may be stated that the mortality rate among the population canvassed is somewhat lower than the rate for the entire city. It is indicated that about one in every four persons was attacked by the disease, and that of each 100 persons attacked nearly two died.

TABLE 7.—*Influenza incidence in Baltimore City, by age*<sup>1</sup>—*Number of cases of influenza, number of deaths from influenza and pneumonia, and fatality rate, per 1,000, among population censused in various areas selected at random.*

Age group (years).	Number of persons.	Cases.		Deaths.		Fatality rate per 1,000 cases.
		Number.	Rate per 1,000.	Number.	Rate per 1,000.	
Under 5.....	1,655	416	251.4	13	7.9	31.3
5 to 9.....	1,528	554	362.6	3	2.0	5.4
10 to 14.....	1,447	479	331.0	4	2.8	8.4
15 to 19.....	1,533	451	294.1	7	4.6	15.5
20 to 24.....	1,576	413	262.1	8	5.1	19.4
25 to 29.....	1,489	461	309.6	15	10.1	32.5
30 to 34.....	1,450	400	275.7	9	6.2	22.5
35 to 39.....	1,277	280	219.3	3	2.4	10.7
40 to 44.....	1,120	216	192.8	3	2.7	13.9
45 to 49.....	952	152	159.7	1	1.1	6.6
50 to 54.....	891	105	117.9	2	2.2	19.1
55 to 59.....	570	70	122.8	1	1.8	14.3
60 to 64.....	528	64	121.2	0	.....	.....
65 to 69.....	351	47	133.9	4	11.4	85.1
70 to 74.....	223	19	85.1	1	4.5	52.6
75 and over.....	207	12	58.0	0	.....	.....
Total.....	16,797	4,139	246.2	74	4.4	17.9

<sup>1</sup> Cases and deaths were reported during the period July–November, 1918 (inclusive); population as censused by canvass in November and December, 1918.

The case fatality rate, when considered in relation to the case incidence rate, shows some interesting variations. It will be noted that the disease was quite prevalent among persons under 45 years of age, the incidence declining sharply in the older ages. The case fatality rate, on the other hand, was highest among children under 5 years of age and among adults of the ages 20 to 34 and 65 and over. Perhaps the most interesting observation, in view of the emphasis which has been placed on the apparent immunity among children of school age as indicated by the mortality rate is that children of the ages 5 to 14 were affected to a very great extent, although the fatality rate was relatively slight.

<sup>1</sup> These statistics embody only a portion of the results of the field studies made in Baltimore, as the data from these studies have not yet been completely tabulated. Certain field studies have also been undertaken in other localities and rural areas in Maryland as well as in several other States, but their results are not yet available.

**Chronological Relation of Onset of Influenza Cases to Onset of Pneumonia Cases  
and to Mortality from Influenza and Pneumonia.**

The results of the field studies in Baltimore, so far as they have been tabulated at this writing, have been considered from the point of view of the chronological severity of the disease. In Table 8 is shown the number of cases of influenza, of "doubtful" cases of influenza, and of cases of pneumonia, and of deaths from influenza and all forms of pneumonia occurring in the areas canvassed, the cases and deaths being classified by weeks of their onset and occurrence. For convenience in comparison, the relative number of each has been computed for the period July 6–November 30, inclusive. By "doubtful" cases of influenza is meant those cases which confined the patient to bed less than three days; obviously these cases may include a number of cases which were not more than colds. The fact that the curve of "doubtful" cases follows the curves of influenza and pneumonia so closely, however, strengthens the presumption that they were, in the large majority of instances, influenza.

**TABLE 8.**—Cases of influenza and pneumonia (including "doubtful" cases<sup>1</sup>) and deaths from influenza and pneumonia (all forms), by week of onset or occurrence, in 18 districts canvassed in Baltimore City.

	Week ended—																					
	July—			August—					September—				October—				November—					
	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	
Cases:																						
Influenza.....	4	0	0	1	2	0	0	5	19	38	107	177	858	833	683	308	178	46	27	13	4	
Pneumonia.....	0	0	0	0	0	0	0	0	6	2	7	19	77	67	37	18	13	7	3	3	1	
Doubtful <sup>1</sup> .....	0	0	0	0	0	0	0	3	3	1	7	25	53	116	100	37	28	7	13	15	4	
Deaths.....	0	0	0	0	0	0	0	0	0	0	1	1	4	27	20	11	6	1	3	1	0	

**RELATIVE NUMBER OF CASES AND DEATHS.**

[Base: Arithmetic weekly average of cases and deaths from July 6 to Nov. 30, inclusive.]

Cases:																						
Influenza.....	2	0	0	1	1	0	0	3	12	23	66	109	530	576	422	190	110	28	17	8	2	
Pneumonia.....	0	0	0	0	0	0	0	0	48	16	56	153	621	540	398	145	105	56	24	24	8	
Doubtful <sup>1</sup> .....	0	0	0	0	0	0	0	14	14	5	32	114	412	577	495	168	137	32	59	68	18	
Deaths.....	0	0	0	0	0	0	0	0	0	0	29	20	114	771	571	314	171	29	86	29	0	

<sup>1</sup> By "doubtful" cases is meant cases causing disability of less than three days.

From this table it will be noted that there is a definite tendency for the disease to become milder as the epidemic spread. The peak of pneumonia cases occurred in advance of that of cases of influenza, while the tendency for the curve of "doubtful" or mild cases was to lag somewhat behind that of the influenza cases (i. e. cases of three or more days' disability). The deaths show a lag of two more weeks

behind the beginning of the epidemic and of about one week at their peak behind the peak of pneumonia cases. The tendency for the deaths to reach their peak very quickly and early in the epidemic is quite marked.

#### Variations in Incidence Among Areas in Baltimore.

Without attempting to correlate the results with any conditions, it may be of interest to point out that among the areas selected for canvass in Baltimore wide differences in the incidence of influenza were observed, showing that within a single city the rate may vary in a marked degree among different sections. For purposes of illustration, the data for a few of the areas canvassed are given below:

TABLE 10.—*Number of cases of influenza and rate per 1,000 of population during the period July 6–Nov. 30, 1918, inclusive, in certain areas canvassed in Baltimore City.*

Area No.	Popula- tion.	Number of cases of in- fluenza.	Influenza rate per 1,000.	Area No.	Popula- tion.	Number of cases of in- fluenza.	Influenza rate per 1,000.
15.....	948	452	477	24.....	1,000	185	185
12.....	947	365	385	7.....	1,312	213	162
13.....	1,115	385	345	9.....	1,013	157	155
2.....	1,740	504	290	14.....	665	90	135
3.....	830	200	241	11.....	904	61	67

#### Summary.

1. Because of the incomplete and inaccurate morbidity reports among the civil population, statistical studies of the influenza epidemic will be limited largely to mortality data. The principal morbidity data suitable for statistical analysis will be that available from field studies made in connection with population canvasses and from collections of reports from institutions and from selected population groups.

2. The collection of such material as are available from local and State health departments and registrars has been undertaken in cooperation with various State and Federal agencies. Field statistical studies have been begun in a number of representative localities. The material thus gathered will be made available for analysis by the various agencies concerned in the study of the epidemic.

3. A consideration of such statistical material as is at present available suggests the following tentative observations:

(a) A conservative estimate of the total mortality in the United States from the epidemic so far is that between 300,000 and 350,000 deaths have occurred.

(b) Definite radial movements of the epidemic from at least some population centers and from the northeastern section of the United States appear to be indicated. Preliminary reports, however, suggest



that centers of radial movements were established early in the epidemic in nearly all sections of the country and probably served as foci in its development.

(c) When the mortality rates for various localities are compared, no definite relation to the size of the locality is indicated. Considered chronologically, however, the severity of the epidemic appeared to decrease as the epidemic spread.

(d) The total mortality from the epidemic, however, can not be considered without reference to the occurrence of recrudescences that are now taking place. An inverse relation is suggested between the mortality rate during the primary epidemic and the recrudescence for a limited number of cities.

(e) The shape of the epidemic curve varies greatly for different cities, suggesting the importance of correlating the course of the epidemic in any city with such conditions as previous epidemics of respiratory or other diseases, methods employed in the attempt to control or mitigate the epidemic, or other conditions of possible significance. Considering composite curves for groups of cities classified according to size, it appears that the primary epidemic was of a more explosive type and shorter in duration in the smaller localities than in the larger cities.

(f) Results of field studies in Baltimore suggest that the case incidence of the disease was high in all ages up to 45, but that the fatality rate was extremely low in children of school age and relatively low among adults between the ages of 45 and 65.

(g) The field studies in Baltimore also suggest that the epidemic was milder in form in its later stages.

No attempt has been made to consider these preliminary data in relation to the various conditions that might affect the incidence and course of the disease. Studies of this character, it is hardly necessary to point out, must wait until the collection of more complete and accurate material now under way is completed.

# 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 DEC. 21.

<p style="text-align: center;">CAMP BEAUREGARD ZONE, LA.</p> <p>Alexandria: <span style="float: right;">Cases.</span></p> <p style="padding-left: 20px;">Influenza..... 77</p> <p style="padding-left: 20px;">Malaria..... 2</p> <p style="padding-left: 20px;">Pneumonia..... 2</p> <p style="padding-left: 20px;">Tuberculosis, pulmonary..... 1</p> <p style="padding-left: 20px;">Typhoid fever..... 2</p> <p>Pineville:</p> <p style="padding-left: 20px;">Influenza..... 71</p> <p style="padding-left: 20px;">Malaria..... 3</p> <p>Rural district:</p> <p style="padding-left: 20px;">Influenza..... 18</p> <p style="text-align: center;">CAMP BOWIE ZONE, TEX.</p> <p>Fort Worth:</p> <p style="padding-left: 20px;">Chancroid..... 1</p> <p style="padding-left: 20px;">Chicken pox..... 5</p> <p style="padding-left: 20px;">Gonorrhoea..... 13</p> <p style="padding-left: 20px;">Influenza..... 57</p> <p style="padding-left: 20px;">Pneumonia..... 50</p> <p style="padding-left: 20px;">Scabies..... 3</p> <p style="padding-left: 20px;">Syphilis..... 9</p> <p style="padding-left: 20px;">Tuberculosis..... 2</p> <p style="padding-left: 20px;">Typhoid fever..... 2</p> <p style="text-align: center;">BREMERTON ZONE, WASH.</p> <p>Influenza..... 256</p> <p style="text-align: center;">CHARLESTON SANITARY DISTRICT, S. C.</p> <p>Charleston:</p> <p style="padding-left: 20px;">Diphtheria..... 3</p> <p style="padding-left: 20px;">Influenza..... 85</p> <p style="text-align: center;">CAMP DEVENS ZONE, MASS.</p> <p>Chicken pox:</p> <p style="padding-left: 20px;">Lancaster..... 2</p> <p>German measles:</p> <p style="padding-left: 20px;">Ayer..... 1</p> <p>Influenza:</p> <p style="padding-left: 20px;">Ayer..... 4</p> <p style="padding-left: 20px;">Lancaster..... 1</p> <p style="padding-left: 20px;">Lunenburg..... 25</p> <p style="padding-left: 20px;">Shirley..... 3</p> <p style="padding-left: 20px;">Townsend..... 85</p> <p>Tuberculosis pulmonary:</p> <p style="padding-left: 20px;">Ayer.....</p>	<p style="text-align: center;">CAMP DIX ZONE, N. J.</p> <p>Chesterfield Township: <span style="float: right;">Cases.</span></p> <p style="padding-left: 20px;">Chicken pox..... 2</p> <p style="padding-left: 20px;">Influenza..... 3</p> <p>Springfield Township:</p> <p style="padding-left: 20px;">Scarlet fever..... 1</p> <p style="text-align: center;">CAMP DODGE ZONE, IOWA.</p> <p>Diphtheria:</p> <p style="padding-left: 20px;">Des Moines..... 3</p> <p>Influenza:</p> <p style="padding-left: 20px;">Ankeny..... 1</p> <p style="padding-left: 20px;">Des Moines..... 41</p> <p style="padding-left: 20px;">Grimes..... 6</p> <p>Scarlet fever:</p> <p style="padding-left: 20px;">Des Moines..... 1</p> <p>Smallpox:</p> <p style="padding-left: 20px;">Des Moines..... 1</p> <p style="text-align: center;">CAMP DONIPHAN ZONE, OKLA.</p> <p>Comanche County:</p> <p style="padding-left: 20px;">Influenza..... 25</p> <p style="padding-left: 20px;">Pneumonia..... 6</p> <p style="padding-left: 20px;">Typhoid fever..... 3</p> <p>Lawton:</p> <p style="padding-left: 20px;">Chancroid..... 2</p> <p style="padding-left: 20px;">Diphtheria..... 3</p> <p style="padding-left: 20px;">Gonorrhoea..... 8</p> <p style="padding-left: 20px;">Influenza..... 24</p> <p style="padding-left: 20px;">Pneumonia..... 6</p> <p style="text-align: center;">CAMP EBERTS ZONE, ARK.</p> <p>Acute conjunctivitis:</p> <p style="padding-left: 20px;">England, R. F. D..... 1</p> <p>Gonorrhoea:</p> <p style="padding-left: 20px;">England..... 1</p> <p>Influenza:</p> <p style="padding-left: 20px;">Austin..... 1</p> <p style="padding-left: 20px;">Austin, R. F. D..... 23</p> <p style="padding-left: 20px;">Cabot..... 32</p> <p style="padding-left: 20px;">Cabot, R. F. D..... 13</p> <p style="padding-left: 20px;">England..... 1</p> <p style="padding-left: 20px;">Lonoke..... 9</p> <p style="padding-left: 20px;">Lonoke, R. F. D..... 22</p> <p style="padding-left: 20px;">Wattensaw..... 26</p> <p style="padding-left: 20px;">Ward..... 7</p>
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## CAMP EBERTS ZONE, ARK.—continued.

	Cases.
Malaria:	
Cabot.....	3
England, R. F. D.....	3
Kco.....	3
Syphilis:	
England.....	1
FAYETTEVILLE SANITARY DISTRICT, N. C.	
Cumberland County:	
Influenza.....	49
Fayetteville:	
Gonorrhoea.....	1
Influenza.....	21
Mumps.....	2
Syphilis.....	1
Whooping cough.....	2

## CAMP FUNSTON ZONE, KANS.

Diphtheria:	
Junction City.....	1
Manhattan.....	1
Randolph.....	1
Gonorrhoea:	
Junction City.....	3
Influenza:	
Cleburne.....	3
Junction City.....	57
Leonardville.....	2
Manhattan.....	65
Mayday.....	4
Ogden.....	20
Randolph.....	32
Measles:	
Manhattan.....	1
Meningitis:	
Junction City.....	1
Pneumonia:	
Junction City.....	2
Manhattan.....	5
Randolph.....	1
Scarlet fever:	
Junction City.....	1

## GAS AND FLAME SCHOOL ZONE, GA. AND ALA.

Diphtheria:	
Columbus.....	1
Gonorrhoea:	
Columbus.....	2
Influenza:	
City View.....	3
Columbus.....	141
Girard.....	23
Muscookee County.....	64
Phoenix City.....	39
Measles:	
Columbus.....	5
Girard.....	1
Pneumonia:	
Columbus.....	10
Girard.....	1
Muscookee County.....	1
Smallpox:	
Columbus.....	4
Syphilis:	
Columbus.....	1

## GERSTNER FIELD ZONE, LA.

	Cases.
Influenza.....	167
Pneumonia.....	11
Smallpox.....	6

## CAMP GORDON ZONE, GA.

Atlanta:	
Chicken pox.....	2
Diphtheria.....	3
Gonorrhoea.....	11
Influenza.....	257
Measles.....	1
Scarlet fever.....	7
Smallpox.....	15
Syphilis.....	26
Tuberculosis.....	1

## CAMP GREENE ZONE, N. C.

Charlotte Township:	
Cerebrospinal meningitis.....	1
Chicken pox.....	5
Gonorrhoea.....	10
Influenza.....	100
Measles.....	1
Mumps.....	1
Syphilis.....	7
Whooping cough.....	1

## GULFPORT HEALTH DISTRICT, MISS.

Diphtheria:	
Biloxi.....	1
Gulfport.....	1
Lyman.....	1
Pass Christian.....	1
Dysentery:	
Kiln.....	1
Gonorrhoea:	
Biloxi.....	1
Gulfport.....	1
Moss Point.....	1
Hookworm:	
Pascagoula.....	1
Influenza:	
Beauvoir.....	1
Biloxi.....	197
Gulfport.....	24
Long Beach.....	3
Lyman.....	37
Mississippi City.....	21
Moss Point.....	22
Ocean Springs.....	1
Pascagoula.....	3
Pass Christian.....	2
Scattered.....	21
Malaria:	
Gulfport.....	1
Moss Point.....	3
Pascagoula.....	2
Mumps:	
Biloxi.....	1
Pneumonia:	
Biloxi.....	8
Gulfport.....	1
Hindsboro.....	1
Long Beach.....	1
Mississippi City.....	2
Pass Christian.....	1

GULFPORT HEALTH DISTRICT, MISS.—contd.

Syphillis:	Cases.
Lyman.....	1
<b>Tuberculosis:</b>	
Gulfport.....	1
Moss Point.....	1
<b>Typhoid fever:</b>	
Pascagoula.....	1
<b>Whooping cough:</b>	
Moss Point.....	1
CAMP HANCOCK ZONE, GA.	
<b>Influenza:</b>	
Augusta.....	29
CAMP HUMPHREYS ZONE, VA.	
<b>Alexandria:</b>	
Influenza.....	23
Smallpox.....	2
<b>Alexandria County:</b>	
Influenza.....	8
CAMP JACKSON ZONE, S. C.	
<b>Columbia:</b>	
Cerebrospinal meningitis.....	1
Chicken pox.....	2
Influenza.....	102
Measles.....	2
Mumps.....	1
Typhoid fever.....	1
<b>U. S. Government Clinic:</b>	
Gonorrhoea.....	7
Syphillis.....	17
CAMP JOSEPH E. JOHNSTON ZONE, FLA.	
<b>Chancroid:</b>	
Jacksonville.....	8
<b>Chicken pox:</b>	
Jacksonville.....	3
<b>Diphtheria:</b>	
Jacksonville.....	2
<b>Gonorrhoea:</b>	
Jacksonville.....	14
<b>Influenza:</b>	
Brentwood.....	3
Fishers Corner.....	1
Jacksonville.....	6
Ortega.....	1
Panama.....	8
<b>Measles:</b>	
Jacksonville.....	13
South Jacksonville.....	4
<b>Mumps:</b>	
Jacksonville.....	1
<b>Pellagra:</b>	
Jacksonville.....	1
<b>Pneumonia:</b>	
Fishers Corner.....	1
Jacksonville.....	2
<b>Scarlet fever:</b>	
Jacksonville.....	1
<b>Syphillis:</b>	
Jacksonville.....	24
<b>Trachoma:</b>	
Brentwood.....	5
Grand Crossing.....	8
Fishers Corner.....	5
Jacksonville.....	3
Moncrief.....	3
Panama.....	7
<b>Whooping cough:</b>	
Jacksonville.....	2

FORT LEAVENWORTH ZONE, KANS.

Leavenworth:	Cases.
Diphtheria.....	3
Gonorrhoea.....	15
Influenza.....	46
Pneumonia, lobar.....	1
Scarlet fever.....	1
Syphillis.....	2
<b>Leavenworth County:</b>	
Influenza.....	55
Pneumonia, lobar.....	1
CAMP LEE ZONE, VA.	
<b>Ettricks:</b>	
Influenza.....	7
Pneumonia.....	2
<b>Petersburg:</b>	
Gonorrhoea.....	1
Influenza.....	466
Pneumonia.....	31
Syphillis.....	2
Tuberculosis.....	3
<b>Prince George County:</b>	
Influenza.....	2
Pneumonia.....	2
CAMP LEWIS ZONE, WASH.	
<b>Influenza:</b>	
Lake City.....	1
Parkland.....	6
Roy.....	13
<b>Scarlet fever:</b>	
Lake City.....	1
<b>Whooping cough:</b>	
Lakeview.....	1
CAMP LOGAN ZONE, TEX.	
<b>Houston:</b>	
Chicken pox.....	2
Diphtheria.....	4
Gonorrhoea.....	8
Pneumonia.....	1
Syphillis.....	10
Typhoid fever.....	1
CAMP M'ARTHUR ZONE, TEX.	
<b>Waco:</b>	
Chicken pox.....	1
Diphtheria.....	1
Influenza.....	28
Measles.....	3
Pneumonia.....	3
Tuberculosis.....	1
Typhoid fever.....	1
CAMP M'CLELLAN ZONE, ALA.	
<b>Anniston:</b>	
Gonorrhoea.....	5
Influenza.....	46
Pneumonia.....	8
Syphillis.....	3
<b>Blue Mountain:</b>	
Influenza.....	1
CAMP MERRIT ZONE, N. J.	
<b>Diphtheria:</b>	
Closter.....	1
<b>Influenza:</b>	
Crosskill.....	1
Englewood.....	16
Haworth.....	4
Tenafly.....	1

## CAMP MERRIT ZONE, N. J.—continued.

	Cases.
<b>Pneumonia:</b>	
Englewood.....	1
Tenaflly.....	1
<b>Tuberculosis:</b>	
Closter.....	2
<b>Typhoid fever:</b>	
Englewood.....	1
NEW LONDON SANITARY DISTRICT, CONN.	
<b>Diphtheria:</b>	
New London.....	3
Pawcatuck.....	10
Mystic.....	2
Waterford.....	1
<b>Influenza:</b>	
New London.....	17
Groton (town).....	60
Jewett City.....	5
Old Lyme.....	4
Pawcatuck.....	16
Stonington.....	20
<b>Pneumonia:</b>	
New London.....	2
Stonington.....	1
Groton (borough).....	1
Old Lyme.....	1
<b>Scarlet fever:</b>	
New London.....	1
<b>Syphilis:</b>	
Niantic.....	1
New London.....	4
<b>Tuberculosis:</b>	
Groton (borough).....	2
<b>Typhoid fever:</b>	
Preston.....	2
FORT OGLETHORPE ZONE, GA. AND TENN.	
<b>Chicken pox:</b>	
Chatanooga.....	8
<b>Diphtheria:</b>	
North Chattanooga.....	1
<b>Gonorrhoea:</b>	
Chatanooga.....	4
<b>Influenza:</b>	
Chatanooga.....	100
East Chattanooga.....	1
North Chattanooga.....	33
Eastlake.....	1
Lookout Mountain.....	2
Signal Mountain.....	1
<b>Measles:</b>	
Chatanooga.....	2
<b>Syphilis:</b>	
Chatanooga.....	16
Alton Park.....	1
<b>Typhoid fever:</b>	
St. Elmo.....	3
PICRIC ACID PLANT ZONE, GA.	
<b>Brunswick:</b>	
Gonorrhoea.....	6
Influenza.....	94
Measles.....	10
Mumps.....	1
Pneumonia.....	7
Syphilis.....	5
Tuberculosis.....	3

## CAMP PIKE ZONE, ARK.

	Cases.
<b>Chancroid:</b>	
Little Rock.....	3
<b>Chicken pox:</b>	
Little Rock.....	4
<b>Diphtheria:</b>	
Little Rock.....	3
North Little Rock.....	2
<b>German measles:</b>	
Little Rock.....	3
<b>Gonorrhoea:</b>	
Little Rock.....	22
North Little Rock.....	1
<b>Influenza:</b>	
Little Rock.....	133
North Little Rock.....	39
Scott.....	1
Sweet Home.....	1
<b>Malaria:</b>	
Little Rock.....	3
North Little Rock.....	1
<b>Measles:</b>	
Little Rock.....	6
North Little Rock.....	14
<b>Pneumonia:</b>	
Little Rock.....	12
North Little Rock.....	4
<b>Scarlet fever:</b>	
Little Rock.....	4
Mabelvale.....	1
<b>Syphilis:</b>	
Little Rock.....	5
<b>Tuberculosis:</b>	
Little Rock.....	1
CAMP POLK ZONE, N. C.	
<b>Durham:</b>	
Chicken pox.....	3
Diphtheria.....	1
Influenza.....	105
Pneumonia, lobar.....	1
<b>Durham County:</b>	
Influenza.....	60
Smallpox.....	5
Typhoid fever.....	1
<b>Raleigh:</b>	
Chicken pox.....	1
Influenza.....	150
Smallpox.....	1
Tuberculosis.....	1
PORTSMOUTH AND NORFOLK COUNTY HEALTH DISTRICT, VA.	
<b>Cerebrospinal meningitis:</b>	
Portsmouth.....	1
<b>Chicken pox:</b>	
Norfolk.....	30
<b>Diphtheria:</b>	
Norfolk.....	2
<b>Gonorrhoea:</b>	
Norfolk.....	2
<b>Influenza:</b>	
Norfolk.....	191
Portsmouth.....	80
Norfolk County.....	81
<b>Measles:</b>	
Portsmouth.....	1
<b>Tuberculosis:</b>	
Portsmouth.....	2
<b>Typhoid fever:</b>	
Portsmouth.....	1

PORTSMOUTH-KITTERY SANITARY DISTRICT, N. H.  
AND ME.

Chicken pox:	Cases.
Portsmouth.....	2
Gonorrhoea:	
Portsmouth.....	2
Influenza:	
Portsmouth.....	7
York.....	1
Pneumonia, lobar:	
Portsmouth.....	2
Newington.....	2
Kittery.....	1
Tuberculosis, pulmonary:	
Portsmouth.....	1

CAMP SEVIER ZONE, S. C.

Greenville:	
Diphtheria.....	2
Measles.....	1
Pneumonia.....	4
Smallpox.....	3
Tuberculosis.....	1
Greenville and vicinity:	
Influenza.....	214

CAMP SHELBY ZONE, MISS.

Forrest County:	
Influenza.....	43
Hattiesburg:	
Gonorrhoea.....	1
Influenza.....	122
Syphilis.....	1
Near Hattiesburg:	
Influenza.....	30

CAMP SHERIDAN ZONE, ALA.

Montgomery:	
Influenza.....	84
Pneumonia.....	3
Scarlet fever.....	2
United States Government Clinic:	
Chancreoid.....	2
Gonorrhoea.....	9
Syphilis.....	9

CAMP SHERMAN ZONE, OHIO.

Chillicothe:	
Diphtheria.....	2
Influenza.....	7
Measles.....	7
Pneumonia, broncho.....	1
Scarlet fever.....	1
Typhoid fever.....	1
Ross County:	
Influenza.....	21
Scioto Township:	
Measles.....	1
United States Government Clinic:	
Gonorrhoea.....	4

CAMP ZACHARY TAYLOR ZONE, KY. AND IND.

Chancreoid:	
U. S. Government clinic.....	1
Chicken pox:	
Louisville.....	1
Diphtheria:	
Jefferson County.....	1
Louisville.....	5

CAMP ZACHARY TAYLOR ZONE, KY. AND IND.—  
continued.

Gonorrhoea:	Cases.
U. S. Government clinic.....	21
Venereal clinic, county jail.....	8
Influenza:	
Clark County.....	60
Jefferson County.....	111
Jeffersonville.....	64
Louisville.....	363
New Albany.....	198
Measles:	
Louisville.....	2
Pneumonia, lobar:	
Louisville.....	4
Scarlet fever:	
Louisville.....	1
Syphilis:	
U. S. Government clinic.....	23
Venereal clinic, county jail.....	3
Tuberculosis, pulmonary:	
Louisville.....	7

TIDEWATER HEALTH DISTRICT, VA.

Newport News:	
Chicken pox.....	3
Diphtheria.....	2
Gonorrhoea.....	12
Influenza.....	618
Measles.....	8
Pneumonia.....	3
Scarlet fever.....	1
Syphilis.....	3
Typhoid fever.....	2

CAMP TRAVIS ZONE, TEX.

San Antonio:	
Cerebrospinal meningitis.....	1
Chancreoid.....	2
Chicken pox.....	3
Gonorrhoea.....	31
Influenza.....	444
Mumps.....	1
Pneumonia.....	27
Syphilis.....	5
Tuberculosis.....	2

CAMP UPTON ZONE, N. Y.

Brook Haven:	
Mumps.....	4
Tuberculosis.....	1

CAMP WALSWORTH ZONE, S. C.

Chicken pox:	
Spartanburg.....	1
Gonorrhoea:	
Spartanburg.....	5
Winston-Salem, N. C.....	1
Influenza:	
Spartanburg.....	196
Arkwright Mills.....	2
Hayne.....	2
Roebuck.....	1
Saxon Mill.....	1
Drayton.....	1
Pneumonia, lobar:	
Fairforest.....	2
Smallpox:	
Spartanburg.....	1
Tuberculosis, pulmonary:	
Spartanburg.....	1

CAMP WHEELER ZONE, GA.

	Cases.
East Macon:	
Influenza.....	11
Tuberculosis.....	1
Macon:	
Influenza.....	50
Measles.....	2
Pneumonia.....	4

WILMINGTON SANITARY DISTRICT, N. C.

	Cases.
Wilmington:	
Cerebrospinal meningitis.....	1
Influenza.....	39
Pellagra.....	2
Pneumonia.....	4
Tuberculosis.....	4
Typhoid fever.....	4

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.<sup>1</sup>

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 December 13, 1918:

Annual admission rate per 1,000 (disease only):		Noneffective rate per 1,000 on day of report—Continued.	
All troops.....	939.50	Cantonments.....	42.49
Divisional camps.....	824.75	Departmental and other troops.....	33.55
Cantonments.....	1,016.02	Annual death rate per 1,000 (disease only):	
Departmental and other troops.....	916.13	All troops.....	14.92
Noneffective rate per 1,000 on day of report:		Divisional camps.....	13.42
All troops.....	38.70	Cantonments.....	11.75
Divisional camps.....	41.28	Departmental and other troops.....	18.95

Cases of special diseases reported during the week ended Dec. 13, 1918.

Camp.	Pneumonia.	Dysentery.	Malaria.	Venereal diseases.		Influenza.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admission rate per 1,000 (disease only).	Noneffective per 1,000 on day of report.
				Total.	New infections.							
Beauregard.....	5	3		17			24	2		3	1,379.94	51.72
Bowie.....	9			237	10	12				1	2,225.98	30.74
Cody.....				4		21	4	1	2	4	1,044.67	148.42
Forrest.....	22			1		37	14			1	1,249.01	48.13
Fremont.....	1			3	2	4				1	389.61	33.99
Greene.....	24			52	3	49	4			3	494.86	25.47
Greenleaf.....	1			4		33	1	2		1	603.21	37.59
Hancock.....	33			45	10	8	20	2		12	597.92	60.16
Kearny.....	52		1	21	5	137	4			19	754.32	29.89
Logan.....	13		3	18		86	6	1			984.54	37.92
MacArthur.....	5			2		11	48			2	520.88	27.60
McClellan.....	27			11		8	14	1		2	906.90	45.04
Sevier.....	14			10	2	10	12	2		6	758.26	37.82
Shelby.....	5		1	28	8	27	5		1	1	1,031.59	43.17
Sheridan.....	13			16	3		23	1	1	5	871.81	31.42
Wadsworth.....	10		1	10			20	1		4	441.98	40.18
Wheeler.....	18		1	11			1			2	822.53	45.33
Custer.....	15			30	10				1	2	586.51	18.96
Devens.....	16			29	6	34	24		1	4	754.98	32.16
Dix.....	8			18		21	3			4	734.46	53.26
Dodge.....	17			37	8	71	17		7	6	1,115.86	57.97
Eustis.....	16		1	10		105	2			6	1,542.33	43.43
Funston.....	35			20		63	30		17	14	1,256.77	45.35
Gordon.....	15			19		54	5	1		3	983.41	55.06
Grant.....	11			14		31	1			6	469.37	21.56
Humphreys.....	21			7	1	45	2				724.68	28.22
Jackson.....	16			25		1	69	2		6	546.57	32.35
Johnston.....	4		1	9	2		27				557.81	26.40
Las Casas.....	10		6	2		65				2	930.23	38.54
Lee.....	5		1	29	8	198	21	2	1	3	914.32	33.40
Lewis.....	96			27	6	43	10	1	1	6	1,864.97	73.99
Meade.....	4			42	2	13	39			2	680.03	24.58
Pike.....	23			9		69	10	5	1	8	1,575.52	52.71
Sherman.....	3			45		26	20	2	1	10	633.56	43.25
Taylor.....	50			18	5	58	8	4	5	29	901.33	41.69
Travis.....	47		7	30		267	4			8	2,133.52	65.51
Upton.....	35			55	4	38	4			8	864.54	48.79

<sup>1</sup> Including Porto Rico.

Cases of special diseases reported during the week ended Dec. 13, 1918—Continued.

Camp.	Pneumonia.	Dysentery.	Malaria.	Venereal diseases.		Influenza.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admis- sion rate per 1,000 (disease only).	Noneffective per 1,000 on day of report.
				Total.	New in- fections.							
Northeast Depart- ment.....	10			7	3	36	1			5	995.3	33.7
Eastern Department.....	9			25	6	57	4			5	616.02	20.24
Southeastern Depart- ment.....	6		1	17	8	52	7			6	1,124.23	30.50
Southern Department.....	57	1	6	58	4	334	11	1		27	1,066.75	38.55
Central Department.....	12			4		48	1			12	675.68	23.86
Western Department.....	6			18	6	173	10	1		4	852.71	24.99
Aviation camps.....	175		1	80		687	8	1	2	66	1,232.14	40.55
Port of embarkation:												
Hoboken.....	9	1	2	61		132	9		6	8	2,125.72	166.43
Newport News.....	15	1		89	5	58	15	1		4	1,545.04	46.52
Alcatraz.....											894.17	5.29
Leavenworth Discip- linary Barracks.....											1,404.32	42.69
Jefferson Barracks.....	1		1	6	6	23					1,023.73	43.41
Columbus Barracks.....				3	2	1					1,384.87	55.84
Fort Logan.....				3	1						1,313.77	59.49
Fort McDowell.....	1			2		13					836.46	36.19
Fort Sill.....	25			20	20	176				4	847.60	28.93
Fort Slocum.....				2							351.18	24.60
Fort Thomas.....	2			9		1		1			604.91	33.60
West Point.....				1							422.12	10.65
Arsenals.....	12			25		39	4		1	2	773.25	31.40
Miscellaneous small stations.....	1			3		24	1				437.50	13.61
Student's Army Training Corps.....	21		9	9		131	2	1	15	14	1,182.27	24.89
General hospitals.....										47		
<b>Total.....</b>	<b>1,061</b>	<b>6</b>	<b>43</b>	<b>1,457</b>	<b>156</b>	<b>3,630</b>	<b>569</b>	<b>36</b>	<b>63</b>	<b>398</b>	<b>939.50</b>	<b>38.70</b>

Annual rate per 1,000 for special diseases.

Disease.	All troops in United States. <sup>1</sup>	Depart- mental and other troops. <sup>1</sup>	Divi- sional camps. <sup>1</sup>	Canton- ments. <sup>1</sup>	Expedi- tionary Forces. <sup>2</sup>
Pneumonia.....	41.35	35.55	51.26	42.36	31.63
Dysentery.....	.23	.29	.61		2.37
Malaria.....	1.17	1.96	1.42	1.51	.21
Venereal.....	54.65	38.01	109.85	45.01	21.47
Paratyphoid.....					.27
Typhoid.....	.03	.09			.59
Measles.....	22.17	7.17	40.68	28.05	5.13
Meningitis.....	1.40	.58	2.64	1.61	2.24
Scarlet fever.....	2.45	2.35	.83	3.31	.75
Influenza.....	141.49	194.97	90.12	113.91	

<sup>1</sup> Week ended Dec. 13, 1918.

<sup>2</sup> Week ended Dec. 5, 1918.

Annual death rate (disease only) all troops in United States and American Expeditionary Forces France, for the week ended December 5, 1918, 11.60.



## RECIPROCAL NOTIFICATION.

## Minnesota.

*Cases of communicable diseases referred during November, 1918, to other State health departments by department of health of the State of Minnesota.*

Disease and locality of notification.	Referred to health authority of—	Why referred.
Tuberculosis: Mayo Clinic, Rochester, Olmsted County.	Genesee, Henry County, Ill.; Elmo, Kaufman County, Ill.; Cedar Rapids, Linn County, Iowa; Sioux City, Woodbury County, Iowa; Storm Lake, Buena Vista County, Iowa; Milford, Barton County, Mo.; Missoula, Missoula County, Mont.; Nowata, Nowata County, Okla.; Dalhart, Dallas County, Tex.; Appleton, Outagamie County, Wis.	4 advanced, 4 moderately advanced, 1 apparently arrested, 1 (stage of disease not given) cases left Mayo Clinic for homes.
Ottertail County Sanatorium.	Milnor, Sargent County, N. Dak.; Wahpeton, Richland County, N. Dak.	1 fatal case and 1 improved case discharged from sanatorium.
Pokegama Sanatorium, Pine County.	Rockwell, Calhoun County, Iowa; Homestead, Sheridan County, Mont.; Christine, Richland County, N. Dak.	2 open cases and 1 fatal case removed from sanatorium to homes.
Thomas Hospital, Minneapolis, Hennepin County.	Atlantic, Cass County, Iowa; Elkton, Brookings County, S. Dak.	1 open case and 1 fatal case removed from Thomas Hospital to homes.
Through operation of draft laws.	Portales, Roosevelt County, N. Mex.; Blabon, Steele County, N. Dak.	2 rejected from military service on account of tuberculosis.
Typhoid fever: St. Andrews Hospital, Minneapolis, Hennepin County.	Washburn, Bayfield County, Wis. ....	Worked at Washburn, Wis., 3 weeks previous to first symptoms.

## CURRENT STATE SUMMARIES.

## Telegraphic Reports for Week Ended December 21, 1918.

*Alabama.*—Total for State, influenza cases 1,241; conditions reported much improved.

*Arkansas.*—Influenza: Hempstead 98, Hot Springs 71, Pine Bluff 42, Greenwood district 54, Camden 39, Rogers 30, Mulberry 30, Melbourne vicinity 28 cases 1 death, Faulkner 26, Decatur 19, Traskwood 18, Forrest City 17, Hartford 17, Corning 15, Texarkana 15, Van Buren 12, Haley 11, Dermott 8 cases 1 death, Drew 7, Clarendon 2. Typhoid fever: Mulberry 6. Malaria: Lee 6, Traskwood 3, Forrest City 1, Faulkner 2, Camden 3. Diphtheria: Forrest City 1, Faulkner 1, Hartford 1. Measles: Pine Bluff 2. Tuberculosis: Pine Bluff 1, Drew 4. Pellagra: Drew 1. Meningitis: Faulkner 1. Trachoma: Hartford 1. Scarlet fever: Hartford 1.

*California.*—Total number of influenza cases to date, 225,000. While the prevalence of the disease has diminished considerably in most communities, influenza continues more prevalent in southern California and around the San Francisco Bay region than in other parts of the State. Prevalence of other communicable diseases is about normal.

*Connecticut.*—Influenza, total for State 1,164 cases. Trachoma: New Haven 3.

*Illinois.*—Diphtheria 184, of which in Chicago 154; scarlet fever 43, of which in Chicago 25; smallpox 33, of which in Elgin 16, Pekin 5;

meningitis, 1 each in Chicago, Hanna City, and Nashville; gonorrhoea 144; syphilis 43; influenza 9,808.

*Indiana.*—Influenza 1,508, syphilis 10, gonorrhoea 19, chancroid 2, diphtheria 19, rabies 1 each in Terra Haute, Indianapolis, and Jeffersonville.

*Iowa.*—Influenza 5,565 cases. Chancroid: Council Bluffs 1. Chicken pox: Boone 2. Diphtheria: Blue Grass 1, Dallas 1, Des Moines 3, Macedonia 2, Mason City 1, Red Oak 1. Gonorrhoea: Belle Plaine 1, Council Bluffs 5, Davenport 3, Dubuque 1, Honey Creek 1, Marion 1, Mason City 2, Sioux City 8, Waukee 1, Williams 1. Scarlet fever: Boone 1, Carroll 1, Dallas 1, Des Moines 2, Fort Dodge 4, Lime Spring 1, Mingo 1, New Hampton 2, North English 1. Smallpox: Carroll 1, Cedar Rapids 1, Council Bluffs 7, Des Moines 1, Fort Dodge 2, Mason City 4, Storm Lake 5. Syphilis: Davenport 1, Fort Dodge 1, Mason City 1, Sioux City 1. In rural districts of following counties: Diphtheria: Monroe 7, Sioux 1, Woodbury 1. Scarlet fever: Boone 5, Jasper 1, Sioux 1, Van Buren 4, Winneshiek 2. Smallpox: Dallas 1, Monona 1, Washington 3.

*Kansas.*—State totals: Typhoid fever 7, smallpox 14, diphtheria 26, scarlet fever 20, pneumonia 163, influenza 9,700. By cities of over 10,000 population.—Influenza: Atchison 45, Coffeyville 102, Fort Scott 3, Hutchinson 109, Independence 129, Kansas City 207, Lawrence 139, Leavenworth 17, Parsons 46, Pittsburg 119, Topeka 111, Wichita 231. All parts of State report decline in number of influenza cases. Meningitis in cities: Clay Center 1, Elkhart 1, Eureka 1, Great Bend 1, Junction City 1.

Reported by mail for preceding week (ended Dec. 14):

Cancer.....	27	Pneumonia.....	215
Chancroid.....	1	Poliomyelitis.....	1
Chicken pox.....	10	Scarlet fever.....	18
Diphtheria.....	12	Septic sore throat.....	2
German measles.....	1	Smallpox.....	21
Gonorrhoea.....	36	Syphilis.....	6
Influenza.....	14,087	Trachoma.....	4
Measles.....	17	Tuberculosis.....	12
Meningitis.....	2	Typhoid fever.....	12
Meningitis (influenzal).....	3	Whooping cough.....	6
Mumps.....	10		

*Louisiana.*—Influenza 4,011: Recrudescence; Antioch, Jackson, Mamou, Jennings, Cravens, Springhill. Poliomyelitis 1, meningitis 2, diphtheria 7, smallpox 9, typhoid fever 4.

*Maine.*—Cerebrospinal meningitis: Biddeford 8, Baileyville 1. Diphtheria: Portland 1. Gonorrhoea: Biddeford 6, Bath 1, Lewiston 2, Augusta 1. Measles: Portland 1. Mumps: Island Falls 1. Scarlet fever: Bath 3, Portland 8, Island Falls 3, Kennebunk 1. Smallpox: Carmel 1. Syphilis: Augusta 1, Bath 1, Lewiston 3. Tuberculosis: Seven cases. Typhoid fever: Portland 2, Bath 1. Whooping

cough: Portland 1. Influenza: Benton 28, Durham 50, Kennebunk 30, Thomaston 173, Portland 708, Yarmouth 35, Biddeford 44, York 14, Freeport 33, Bowdoinham 60, Bridgewater 18, South Portland 291, Alfred 15, Bethel 15, Farmington 30, Foxcroft 28, Greenville 24, Kennebunkport 38, scattered cases 112. Recrudescence of influenza in Foxcroft, Kennebunk, Kennebunkport, Benton, Durham, Thomaston, Biddeford, Bowdoinham, and South Portland.

*Michigan.*—Influenza: Bay City 70 cases, 14 deaths; Battle Creek 90 cases, 5 deaths; Flint 59 cases; 17 deaths; Lansing 242 cases; Jackson 32 cases, 8 deaths; Kalamazoo 438 cases; Grand Rapids 888 cases, 15 deaths; Muskegon 112 cases, 10 deaths; Pontiac 33 cases; Saginaw 319 cases; Owosso 99 cases; Detroit 1,798 cases, 183 deaths; total for week 12,853 cases, 494 deaths.

*Minnesota.*—Smallpox (new foci): Hennepin County, Bloomington Township, 2; Fridley County, Severance Township, 1. Syphilis 63, gonorrhoea 87, chancroid 4.

*New Jersey.*—Four thousand three hundred and forty-four cases influenza and 435 cases of pneumonia reported. Influenza generally prevalent throughout State. No unusual prevalence of other communicable diseases.

*New York.*—State outside of New York City: Diphtheria 115, scarlet fever 100, typhoid fever 30, smallpox 3 (Oswego City 1, Tyrone town 2), pneumonia 297. No unusual outbreak. Influenza: slight increase in different sections of the State. Voluntary reports: Syphilis 89, gonorrhoea 14.

*North Carolina.*—New cases influenza by counties: Ash, 200; Carteret, epidemic in Morehead City; Brunswick, 2; Clay, 25; Cleveland, 250; Cumberland, 80; Davidson, 361; Durham, 60; Franklin, 16; Gaston, 9; Gates, 100; Johnson, 57; Lincoln, few new cases; Montgomery, 15; Pitt, 209; Randolph, 14; Rockingham, 79; Stokes, 70. Cities reporting influenza: Charlotte 137, Durham 106, Goldsboro 40, High Point 18, Raleigh 150, Wilmington 34, Winston-Salem 483.

Whooping cough 12, measles 5, diphtheria 20, scarlet fever 15, septic sore throat 3, smallpox 32, chicken pox 13, typhoid fever 18, infantile paralysis 2, broncho pneumonia 24, lobar pneumonia 15, trachoma 9.

*Ohio.*—Marked decrease influenza during week. Larger cities highest incidence. Lower mortality than first epidemic.

*Oregon.*—Influenza: Portland City 626 (and 63 deaths). By counties: Benton 18, Clackamas 85, Columbia 21, Crook (Deschutes) 8, Douglas 50, Gilliam 5, Hood River 82 (and 1 death), Jackson 65, Lane 177 (and 1 death), Lincoln 13, Linn 66, Marion 32, Multnomah 3, Polk 5, Tillamook 3, Union 18, Wallowa 40, Wasco 60 (and 1 death), Washington 28, Harney 4 deaths.

*Vermont.*—Influenza, 504 cases from 39 towns, largely among school children. No other unusual occurrence.

*Virginia.*—Two cases smallpox Alexandria, 1 Surry County. One thousand and fifty-three cases influenza reported during week. Influenza epidemic in parts of following counties: Accomac, Alexandria, Amherst, Appomattox, Bedford, Bland, Brunswick, Buchanan, Charlotte, Clarke, Dinwiddie, Fauquier, Floyd, Franklin, Giles, Halifax, Hanover, Henry, Highland, James City, Lancaster, Loudoun, Lunenburg, Montgomery, Northampton, Northumberland, Page, Patrick, Powhatan, Roanoke, Rockingham, Russell, Scott, Shenandoah, Southampton, Sussex, Tazewell, Wise, Wythe.

**CEREBROSPINAL MENINGITIS.**

**Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

	Cases.		Cases.
Camp Funston zone, Kans.....	1	Portsmouth and Norfolk County health district, Va.....	1
Camp Greene zone, N. C.....	1	Camp Travis zone, Tex.....	1
Camp Jackson zone, S. C.....	1	Wilmington sanitary district, N. C.....	1

**State Reports for September, October, and November, 1918.**

Place.	New cases reported.	Place.	New cases reported.
<b>Connecticut (November):</b>		<b>Ohio (October)—Continued.</b>	
New Haven County—		Trumbull County.....	1
New Haven.....	2	Union County.....	1
Waterbury.....	2	<b>Total.....</b>	<b>18</b>
New London County—		<b>Pennsylvania (September):</b>	
North Stonington.....	1	Allegheny County.....	4
<b>Total.....</b>	<b>5</b>	Cambria County.....	1
<b>Louisiana (November):</b>		Clarion County.....	1
Beauregard Parish.....	1	Delaware County.....	1
Rapides Parish.....	5	Luzerne County.....	1
St. Tammany Parish.....	1	McKean County.....	1
<b>Total.....</b>	<b>7</b>	Philadelphia County.....	7
<b>New Jersey (November):</b>		Schuylkill County.....	1
Bergen County.....	6	Westmoreland County.....	2
Burlington County.....	3	<b>Total.....</b>	<b>19</b>
Camden County.....	1	<b>Pennsylvania (October):</b>	
Essex County.....	7	Allegheny County.....	3
Hudson County.....	3	Berks County.....	1
Passaic County.....	1	Center County.....	1
Union County.....	1	Delaware County.....	1
<b>Total.....</b>	<b>22</b>	Fayette County.....	1
<b>Ohio (September):</b>		Northumberland County.....	1
Belmont County.....	1	Philadelphia County.....	5
Clark County.....	2	Westmoreland County.....	1
Cuyahoga County.....	4	York County.....	1
Delaware County.....	1	<b>Total.....</b>	<b>15</b>
Hamilton County.....	1	<b>Pennsylvania (November):</b>	
Mahoning County.....	2	Allegheny County.....	9
Summit County.....	5	Cambria County.....	1
Washington County.....	1	Columbia County.....	1
<b>Total.....</b>	<b>17</b>	Delaware County.....	1
<b>Ohio (October):</b>		Franklin County.....	1
Belmont County.....	1	Mercer County.....	1
Clark County.....	1	Philadelphia County.....	6
Clinton County.....	1	Schuylkill County.....	1
Crawford County.....	1	<b>Total.....</b>	<b>21</b>
Cuyahoga County.....	4	<b>Wisconsin (November):</b>	
Franklin County.....	1	Milwaukee County.....	3
Guernsey County.....	1	Trempealeau County.....	1
Mahoning County.....	3	<b>Total.....</b>	<b>4</b>
Muskingum County.....	1		
Richland County.....	2		

## CEREBROSPINAL MENINGITIS—Continued.

## City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md. ....	2	1	Passaic, N. J. ....	1	.....
Berkeley, Cal. ....	1	.....	Peabody, Mass. ....	1	1
Berlin, N. H. ....	1	.....	Peoria, Ill. ....	.....	1
Biddford, Me. ....	2	2	Philadelphia, Pa. ....	4	1
Boston, Mass. ....	3	2	Pittsfield, Mass. ....	.....	1
Chicago, Ill. ....	1	2	Portland, Oreg. ....	.....	1
Dubuque, Iowa. ....	.....	1	Providence, R. I. ....	.....	1
Grand Rapids, Mich. ....	1	1	St. Louis, Mo. ....	.....	1
Milwaukee, Wis. ....	1	1	Salem, Mass. ....	.....	1
Nashville, Tenn. ....	2	1	Schenectady, N. Y. ....	1	.....
New Haven, Conn. ....	1	1	Tuscaloosa, Ala. ....	1	.....
New York, N. Y. ....	10	6			

## CHANCROID.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Bowie zone, Tex. ....	1
Camp Doniphan zone, Okla. ....	2
Camp Joseph E. Johnston zone, Fla. ....	8
Camp Pike zone, Ark. ....	3
Camp Sheridan zone, Ala. ....	2
Camp Zachary Taylor zone, Ky. and Ind. ....	1
Camp Travis zone, Tex. ....	2

## DIPHTHERIA.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Charleston sanitary district, S. C. ....	3
Camp Dodge zone, Iowa. ....	3
Camp Doniphan zone, Okla. ....	3
Camp Funston zone, Kans. ....	3
Gas and Flame School zone, Ga. and Ala. ....	1
Camp Gordon zone, Ga. ....	3
Gulfport health district, Miss. ....	4
Camp Joseph E. Johnston zone, Fla. ....	2
Fort Leavenworth zone, Kans. ....	3
Camp Logan zone, Tex. ....	4
Camp MacArthur zone, Tex. ....	1
Camp Merrit zone, N. J. ....	1
New London sanitary district, Conn. ....	16
Fort Oglethorpe zone, Ga. and Tenn. ....	1
Camp Pike Zone, Ark. ....	5
Camp Polk zone, N. C. ....	1
Portsmouth and Norfolk County health district, Va. ....	2
Camp Sevier zone, S. C. ....	2
Camp Sherman zone, Ohio. ....	2
Camp Zachary Taylor zone, Ky. and Ind. ....	6
Tidewater health district, Va. ....	2

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 2347.

## ERYSIPELAS.

## City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Amarillo, Tex. ....	1	.....	Malden, Mass. ....	.....	1
Baltimore, Md. ....	1	.....	Milwaukee, Wis. ....	2	.....
Boston, Mass. ....	1	.....	Minneapolis, Minn. ....	2	1
Charleston, S. C. ....	1	.....	New York, N. Y. ....	.....	2
Chicago, Ill. ....	4	.....	Peabody, Mass. ....	.....	1
Cincinnati, Ohio. ....	1	1	Philadelphia, Pa. ....	1	.....
Cleveland, Ohio. ....	2	2	St. Louis, Mo. ....	5	3
Denver, Colo. ....	1	1	Santa Barbara, Cal. ....	1	1
Detroit, Mich. ....	1	.....	Springfield, Mo. ....	.....	1
Kansas City, Mo. ....	1	.....	Wichita, Kans. ....	1	.....

## GONORRHEA.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Rowie zone, Tex..... 13	Fort Oglethorpe zone, Ga. and Tenn..... 4
Camp Doniphon zone, Okla..... 8	Picric Acid Plant zone, Ga..... 6
Camp Eberts zone, Ark..... 1	Camp Pike zone, Ark..... 23
Fayetteville sanitary district, N. C..... 1	Portsmouth and Norfolk County health district, Va..... 2
Camp Funston zone, Kans..... 3	Portsmouth-Kittery sanitary district, N. H. and Me..... 2
Gas and Flame School zone, Ga. and Ala..... 2	Camp Shelby zone, Miss..... 1
Camp Gordon zone, Ga..... 11	Camp Sheridan zone, Ala..... 9
Camp Greene zone, N. C..... 10	Camp Sherman zone, Ohio..... 4
Gulfport health district, Miss..... 3	Camp Zachary Taylor zone, Ky. and Ind..... 29
Camp Jackson zone, S. C..... 7	Tidewater health district, Va..... 12
Camp Joseph E. Johnston zone, Fla..... 14	Camp Travis zone, Tex..... 31
Fort Leavenworth zone, Kans..... 15	Camp Wadsworth zone, S. C..... 6
Camp Lee zone, Va..... 1	
Camp Logan zone, Tex..... 8	
Camp McClellan zone, Ala..... 5	

## INFLUENZA.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Beauregard zone, La..... 166	Camp MacArthur zone, Tex..... 28
Camp Bowie zone, Tex..... 57	Camp McClellan zone, Ala..... 47
Bremerton zone, Wash..... 256	Camp Merrit zone, N. J..... 22
Charleston sanitary district, S. C..... 85	New London sanitary district, Conn..... 122
Camp Devens zone, Mass..... 118	Fort Oglethorpe zone, Ga. and Tenn..... 138
Camp Dix zone, N. J..... 3	Picric Acid Plant zone, Ga..... 94
Camp Dodge zone, Iowa..... 48	Camp Pike zone, Ark..... 174
Camp Doniphon zone, Okla..... 49	Camp Polk zone, N. C..... 316
Camp Eberts zone, Ark..... 134	Portsmouth and Norfolk County health district, Va..... 352
Fayetteville sanitary district, N. C..... 70	Portsmouth-Kittery sanitary district, N. H. and Me..... 8
Camp Funston zone, Kans..... 183	Camp Sevier zone, S. C..... 214
Gas and Flame School zone, Ga. and Ala..... 270	Camp Shelby zone, Miss..... 195
Gerstner Field zone, La..... 167	Camp Sheridan zone, Ala..... 84
Camp Gordon zone, Ga..... 257	Camp Sherman zone, Ohio..... 28
Camp Greene zone, N. C..... 100	Camp Zachary Taylor zone, Ky. and Ind..... 706
Gulfport health district, Miss..... 332	Tidewater health district, Va..... 618
Camp Hancock zone, Ga..... 29	Camp Travis zone, Tex..... 444
Camp Humphreys zone, Va..... 31	Camp Wadsworth zone, S. C..... 113
Camp Jackson zone, S. C..... 102	Camp Wheeler zone, Ga..... 61
Camp Joseph E. Johnston zone, Fla..... 19	Wilmington sanitary district, N. C..... 39
Fort Leavenworth zone, Kans..... 101	
Camp Lee zone, Va..... 475	
Camp Lewis zone, Wash..... 20	

## LEPROSY.

## Ohio Report for September, 1918.

During September, 1918, one case of leprosy was reported at Dayton, Ohio, in the person of M. P., a native of Greece. The disease was diagnosed clinically July 22, 1918, after which the patient broke quarantine and went to Columbus, Ohio, returning to Dayton in about a month. Bacteriological verification was made September 1, 1918.

**MALARIA.****Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

Cases.		Cases.	
Camp Beaugard zone, La.....	5	Gulfport health district, Miss.....	6
Camp Eberts zone, Ark.....	9	Camp Pike zone, Ark.....	4

**State Reports for September, October, and November, 1918.**

Place.	New cases reported.	Place.	New cases reported
<b>Louisiana (November):</b>		<b>Ohio (September):</b>	
Acadia Parish.....	2	Greene County.....	1
Calcasieu Parish.....	1	Harrison County.....	1
De Soto Parish.....	1	Knox County.....	1
Evangeline Parish.....	2	Morrow County.....	1
La Salle Parish.....	1	Pickaway County.....	1
Lincoln Parish.....	1	Portage County.....	1
Orleans Parish.....	5	Ross County.....	2
Rapides Parish.....	17	Summit County.....	1
St. Martin Parish.....	4	Total.....	9
Vernon Parish.....	1	<b>Ohio (October):</b>	
Winn Parish.....	2	Clermont County.....	2
Total.....	37	Hocking County.....	1
<b>New Jersey (November):</b>		Jefferson County.....	1
Bergen County.....	2	Total.....	4
Burlington County.....	2	<b>Pennsylvania (September):</b>	
Essex County.....	1	Philadelphia County.....	1
Mercer County.....	1	<b>Pennsylvania (October):</b>	
Total.....	6	Mifflin County.....	1

**City Reports for Week Ended Dec. 7, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Dallas, Tex.....		1	Meridian, Miss.....	2	
Fort Worth, Tex.....	2		Tuscaloosa, Ala.....	2	
Little Rock, Ark.....	2		Wilmington, N. C.....	1	

**MEASLES.****Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

Cases.		Cases.	
Camp Funston zone, Kans.....	1	Camp Pike zone, Ark.....	20
Gas and Flame School zone, Ga. and Ala.....	6	Portsmouth and Norfolk County health district, Va.....	1
Camp Gordon zone, Ga.....	1	Camp Sevier zone, S. C.....	1
Camp Greene zone, N. C.....	1	Camp Sherman zone, Ohio.....	8
Camp Jackson zone, S. C.....	2	Camp Zachary Taylor zone, Ky. and Ind.....	2
Camp Joseph E. Johnston zone, Fla.....	17	Tidewater health district, Va.....	8
Camp MacArthur zone, Tex.....	3	Camp Wheeler zone, Ga.....	2
Fort Oglethorpe zone, Ga. and Tenn.....	2		
Picrie Acid Plant zone, Ga.....	10		

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 2347.

**PELLAGRA.****Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

Cases.	Cases.		
Camp Joseph E. Johnston zone, Fla.....	1	Wilmington sanitary district, N. C.....	2

**State Reports for October and November, 1918.**

During November three cases of pellagra were reported in Orleans Parish, La., and during October one case of pellagra was reported in Philadelphia County, Pa.

PELLAGRA—Continued.

City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.....	1	1	Helena, Ark.....	1	1
Charleston, S. C.....		3	Little Rock, Ark.....		3
Columbus, Ga.....	2	1	Los Angeles, Cal.....	2	2
Dallas, Tex.....		1	Mobile, Ala.....		1
Danville, Va.....	1		Portland, Me.....		1
Fort Worth, Tex.....		1	Raleigh, N. C.....		1
Galveston, Tex.....		1	Wilmington, N. C.....		1

PNEUMONIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Beauregard zone, La.....	2
Camp Bowie zone, Tex.....	80
Camp Doniphan zone, Okla.....	12
Camp Funston zone, Kans.....	8
Gas and Flame School zone, Ga. and Ala.....	12
Gerstner Field zone, La.....	11
Gulfpfort health district, Miss.....	14
Camp Joseph E. Johnston zone, Fla.....	3
Fort Leavenworth zone, Kans.....	2
Camp Lee zone, Va.....	35
Camp Logan zone, Tex.....	1
Camp MacArthur zone, Tex.....	3
Camp McClellan zone, Ala.....	8
Camp Merrit zone, N. J.....	2
New London sanitary district, Conn.....	5
Pieric Acid Plant zone, Ga.....	7
Camp Pike zone, Ark.....	16
Camp Polk zone, N. C.....	1
Portsmouth-Kittery sanitary district, N. H. and Me.....	5
Camp Sevier zone, S. C.....	4
Camp Sheridan zone, Ala.....	3
Camp Sherman zone, Ohio.....	1
Camp Zachary Taylor zone, Ky. and Ind.....	4
Tidewater health district, Va.....	3
Camp Travis zone, Tex.....	27
Camp Wadsworth zone, S. C.....	2
Camp Wheeler zone, Ga.....	4
Wilmington sanitary district, N. C.....	4

City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Adrien, Mich.....	3	3	Haverhill, Mass.....	16	3
Alameda, Cal.....	1		Helena, Ark.....	2	2
Amarillo, Tex.....	36		Henderson, Ky.....	15	9
Ann Arbor, Mich.....	3		Hornell, N. Y.....	3	
Anniston, Ala.....	8		Independence, Mo.....	5	5
Appleton, Wis.....	18	11	Ithaca, N. Y.....	1	2
Auburn, N. Y.....	3	1	Jackson, Mich.....	2	2
Baltimore, Md.....	8	24	Jamestown, N. Y.....	3	1
Battle Creek, Mich.....	8	5	Jersey City, N. J.....	6	
Bedford, Ind.....	1	1	Kalamazoo, Mich.....	15	6
Belleville, N. J.....	2		Kansas City, Kans.....	4	
Berkeley, Cal.....	1		Kansas City, Mo.....	93	48
Bloomfield, N. J.....	2		Lawrence, Mass.....	1	1
Boston, Mass.....	32	23	Lincoln, Nebr.....	3	2
Brookline, Mass.....	2	1	Little Rock, Ark.....	19	9
Brunswick, Ga.....	2	2	Los Angeles, Cal.....	19	9
Cambridge, Mass.....	2	4	Louisville, Ky.....	4	28
Camden, N. J.....	4		Lowell, Mass.....	3	5
Cape Girardeau, Mo.....	6	1	Ludington, Mich.....	3	3
Charleston, W. Va.....	11	4	Lynn, Mass.....	2	1
Chicago, Ill.....	487	103	Manchester, Conn.....	1	2
Chillicothe, Ohio.....	2		Manchester, N. H.....	1	1
Cleveland, Ohio.....	81	48	Manitowoc, Wis.....	10	5
Columbus, Ga.....	4	3	Marion, Ohio.....	1	
Cortland, N. Y.....	1		Melrose, Mass.....	1	1
Cranston, R. I.....	2	2	Meridian, Miss.....	2	
Dayton, Ohio.....	17	4	Methuen, Mass.....	1	
Detroit, Mich.....	80	55	Montclair, N. J.....	3	1
Duluth, Minn.....	1		Montgomery, Ala.....	12	2
East Orange, N. J.....	5	3	Morgantown, W. Va.....	4	3
Elmira, N. Y.....	17	4	Morristown, N. J.....	5	4
Fall River, Mass.....	1	1	Natick, Mass.....	6	2
Findlay, Ohio.....	1		New Bedford, Mass.....	2	2
Ft. Worth, Tex.....	29	21	New London, Conn.....	1	
Framingham, Mass.....	1		New York, N. Y.....	264	288
Fremont, Ohio.....	10	12	Northampton, Mass.....	1	1
Gardner, Mass.....	2	1	North Tonawanda, N. Y.....	1	
Geneva, N. Y.....	3	2	Norwood, Ohio.....	9	5
Grand Rapids, Mich.....	45	9	Oakland, Cal.....	2	6
Hackensack, N. J.....	20	5	Oak Park, Ill.....	2	3



## PNEUMONIA—Continued.

## City Reports for Week Ended Dec. 7, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Pasadena, Cal.	2	.....	Schenectady, N. Y.	8	.....
Passaic, N. J.	6	3	Somerville, Mass.	2	3
Philadelphia, Pa.	19	33	Springfield, Mass.	24	6
Piqua, Ohio.	2	1	Springfield, Ohio.	1	.....
Pontiac, Mich.	6	7	Stockton, Cal.	22	4
Port Chester, N. Y.	1	1	Taunton, Mass.	1	1
Richmond, Va.	3	3	Toledo, Ohio.	2	13
Riverside, Cal.	2	8	Trenton, N. J.	1	2
Roanoke, Va.	2	1	Tuscaloosa, Ala.	1	.....
Rochester, N. Y.	35	2	Waco, Tex.	9	6
Rome, N. Y.	1	.....	Westfield, Mass.	4	1
Salem, Mass.	3	.....	Wichita, Kans.	4	2
Sandusky, Ohio.	20	6	Worcester, Mass.	14	5
Saratoga Springs, N. Y.	1	1	Yonkers, N. Y.	1	1

## POLIOMYELITIS (INFANTILE PARALYSIS).

## State Reports for September, October, and November, 1918.

Place.	New cases reported.	Place.	New cases reported.
<b>Connecticut (November):</b>		<b>Pennsylvania (September)—Contd.</b>	
New Haven County—		Clinton County.....	1
New Haven.....	2	Crawford County.....	2
<b>Louisiana (November):</b>		Erie County.....	3
Lincoln Parish.....	1	Fayette County.....	1
Orleans Parish.....	1	Franklin County.....	25
Total.....	2	Fulton County.....	1
<b>Minnesota (November):*</b>		Huntingdon County.....	2
Dakota County—		Indiana County.....	3
Hastings.....	1	Jefferson County.....	1
Hennepin County—		Lackawanna County.....	1
Minneapolis.....	1	Lawrence County.....	4
Total.....	2	Luzerne County.....	1
<b>Ohio (September):</b>		McKean County.....	2
Columbiana County.....	2	Mercer County.....	5
Cuyahoga County.....	4	Montgomery County.....	1
Erie County.....	2	Northampton County.....	1
Franklin County.....	1	Philadelphia County.....	10
Fulton County.....	3	Susquehanna County.....	2
Geauga County.....	1	Venango County.....	1
Hamilton County.....	1	Warren County.....	2
Lawrence County.....	1	Westmoreland County.....	2
Lorain County.....	1	Total.....	100
Lucas County.....	9	<b>Pennsylvania (October):</b>	
Montgomery County.....	1	Allegheny County.....	3
Paulding County.....	1	Blair County.....	4
Shelby County.....	1	Center County.....	2
Stark County.....	1	Cumberland County.....	1
Summit County.....	4	Fayette County.....	1
Tuscarawas County.....	1	Franklin County.....	3
Van Wert County.....	2	Juniata County.....	1
Warren County.....	1	Lackawanna County.....	1
Washington County.....	1	Lawrence County.....	1
Williams County.....	2	Mercer County.....	1
Total.....	40	Philadelphia County.....	2
<b>Ohio (October):</b>		Somerset County.....	1
Coshocton County.....	1	Venango County.....	1
Franklin County.....	2	Washington County.....	1
Morrow County.....	1	Wayne County.....	1
Trumbull County.....	1	Wyoming County.....	1
Tuscarawas County.....	1	Total.....	25
Wood County.....	1	<b>Pennsylvania (November):</b>	
Total.....	7	Center County.....	1
<b>Pennsylvania (September):</b>		Chester County.....	1
Adams County.....	2	Dauphin County.....	1
Allegheny County.....	16	Franklin County.....	1
Beaver County.....	3	Lehigh County.....	1
Blair County.....	1	Total.....	5
Bradford County.....	1	<b>Wisconsin (November):</b>	
Butler County.....	2	Monroe County.....	1
Cambria County.....	1	Walworth County.....	1
Center County.....	3	Total.....	2

**POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.**

**City Reports for Week Ended Dec. 7, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill.....	1	.....	Manchester, N. H.....	1	.....
Dallas, Tex.....	.....	1	Milwaukee, Wis.....	1	.....

**RABIES IN ANIMALS.**

**City Report for Week Ended Dec. 7, 1918.**

There was reported one case of rabies in animals at Tuscaloosa, Ala., during the week ended December 7, 1918.

**SCARLET FEVER.**

**Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

	Cases.		Cases.
Camp Dix zone, N. J.....	1	New London sanitary district, Conn.....	1
Camp Dodge zone, Iowa.....	1	Camp Pike zone, Ark.....	5
Camp Funston zone, Kans.....	1	Camp Sheridan zone, Ala.....	2
Camp Gordon zone, Ga.....	7	Camp Sherman zone, Ohio.....	1
Camp Joseph E. Johnston zone, Fla.....	1	Camp Zachary Taylor zone, Ky. and Ind.....	1
Fort Leavenworth zone, Kans.....	1	Tidewater health district, Va.....	1
Camp Lewis zone, Wash.....	1		

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 2347.

**SMALLPOX.**

**Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

	Cases.		Cases.
Camp Dodge zone, Iowa.....	1	Camp Humphreys zone, Va.....	2
Gas and Flame School zone, Ga. and Ala.....	4	Camp Polk zone, N. C.....	6
Gerstner Field zone, La.....	6	Camp Sevier zone, S. C.....	3
Camp Gordon zone, Ga.....	15	Camp Wadsworth zone, S. C.....	1

**State Reports for September, October, and November, 1918—Vaccination Histories.**

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Michigan (November):						
Berrien county—						
Niles.....	3	.....	.....	.....	2	1
Branch County—						
Gilead Township.....	2	.....	.....	1	1	.....
Calhoun County—						
Battle Creek Township.....	3	.....	.....	.....	2	1
Battle Creek.....	2	.....	.....	.....	2	.....
Cass County—						
Dowagiac.....	1	.....	.....	.....	1	.....
Delta County—						
Norway Township.....	3	.....	.....	2	1	.....
Escanaba.....	1	.....	.....	.....	1	.....
Eaton County—						
Walton Township.....	1	.....	.....	.....	1	.....
Genesee County—						
Fenton Township.....	1	.....	.....	.....	1	.....
Flint.....	2	.....	.....	.....	2	.....

## SMALLPOX—Continued.

## State Reports for September, October, and November, 1918—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Michigan (November)—Contd.</b>						
Gogetic County—						
Ironwood.....	6				6	
Gratiot County—						
Hamilton Township.....	1				1	
Huron County—						
Dwight Township.....	2				2	
Ingham County—						
Leslie Township.....	1				1	
Stockbridge.....	2				2	
Lansing.....	7				2	5
Ionia County—						
Ronald Township.....	1					1
Lyons.....	12				12	
Belding.....	1				1	
Isabella County—						
Denver Township.....	2				2	
Kent County—						
Grand Rapids.....	2					2
Lapeer County—						
Goodland Township.....	3				1	2
Lenawee County—						
Adrian Township.....	6				6	
Livingston County—						
Deerfield Township.....	1				1	
Marquette County—						
Marquette.....	1				1	
Mason County—						
Pere Marquette Township.....	5				5	
Ludington.....	2				2	
Menominee County—						
Menominee.....	10				10	
Missaukee County—						
McBain.....	1				1	
Monroe County—						
Monroe.....	1				1	
Muskegon County—						
Muskegon.....	1				1	
Oceana County—						
Ferry Township.....	1				1	
Ottawa County—						
Spring Lake Township.....	1					1
Saginaw County—						
Saginaw.....	15				15	
Shiawassee County—						
Owosso.....	3				3	
Wayne County—						
Detroit.....	4				4	
<b>Total.....</b>	<b>111</b>			<b>3</b>	<b>95</b>	<b>13</b>
<b>Minnesota (November):</b>						
Big Stone County—						
Ortonville.....	2				2	
Clay County—						
Hawley.....	1				1	
Dakota County—						
West St. Paul.....	18				18	
Douglas County—						
Miltona Township.....	1				1	
Hennepin County—						
Minneapolis.....	13			3	10	
Kittson County—						
Hallock.....	1				1	
McLeod County—						
Hutchinson.....	2			1	1	
Marshall County—						
Warren.....	2				2	
Mower County—						
Austin.....	1			1		

SMALLPOX—Continued.

State Reports for September, October and November, 1918—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Minnesota (November)—Contd.</b>						
Nicollet County—						
Nicollet Township.....	1				1	
Ottetail County—						
Newton Township.....	1			1		
Pine County—						
Brumo.....	1				1	
Brook Park.....	3				3	
Brook Park Township.....	5				5	
Ramsey County—						
St. Paul.....	136				136	
Renville County—						
Boon Lake Township.....	4				4	
St. Louis County—						
Duluth.....	2		1		1	
McDavitt Township.....	3				3	
Wilkin County—						
Breckenridge.....	3				3	
Wright County—						
Cokato Township.....	6				6	
Middleville Township.....	1					1
<b>Total.....</b>	<b>207</b>		<b>1</b>	<b>6</b>	<b>199</b>	<b>1</b>
<b>Ohio (September):</b>						
Allen County.....	3					3
Belmont County.....	2				1	1
Butler County.....	25					25
Clark County.....	5					5
Columbiana County.....	2				2	
Coshocton County.....	16				13	3
Crawford County.....	5			1		4
Cuyahoga County.....	7					7
Eric County.....	2				2	
Fayette County.....	1					1
Franklin County.....	2				2	
Hamilton County.....	5			1	1	3
Highland County.....	2				1	1
Holmes County.....	1					1
Jefferson County.....	1				1	
Lawrence County.....	1				1	
Lorain County.....	2				1	1
Lucas County.....	1				1	
Mahoning County.....	3				1	2
Marion County.....	5				4	1
Meigs County.....	2					2
Muskingum County.....	10		1	1	8	
Paulding County.....	1					1
Preble County.....	10					10
Scioto County.....	4				4	
Seneca County.....	1					1
Summit County.....	3				1	2
Trumbull County.....	3					3
Wyandot County.....	4					4
<b>Total.....</b>	<b>129</b>		<b>1</b>	<b>3</b>	<b>44</b>	<b>81</b>
<b>Ohio (October):</b>						
Allen County.....	1				1	
Belmont County.....	7				4	3
Butler County.....	31			2	3	26
Clark County.....	5				1	4
Columbiana County.....	6			1		5
Coshocton County.....	21			1	10	10
Crawford County.....	13				12	1
Cuyahoga County.....	34					34
Darke County.....	1				1	
Fayette County.....	3					3
Franklin County.....	2				1	1

## SMALLPOX—Continued.

## State Reports for September, October, and November, 1918—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Ohio (October)—Continued.</b>						
Guernsey County.....	2				1	1
Hamilton County.....	10				1	10
Highland County.....	1					
Huron County.....	2					2
Jefferson County.....	4				2	2
Lake County.....	4					4
Lorain County.....	27		2	1	11	13
Lucas County.....	6				2	
Mahoning County.....	1				1	5
Meigs County.....	1					1
Montgomery County.....	10				7	3
Morrow County.....	1					1
Muskingum County.....	8					8
Paulding County.....	38				22	16
Preble County.....	13					13
Sandusky County.....	1				1	
Scioto County.....	1				1	
Seneca County.....	1					1
Stark County.....	7					7
Summit County.....	1				1	
Trumbull County.....	3				3	
Wayne County.....	2			1		1
<b>Total.....</b>	<b>269</b>		<b>2</b>	<b>6</b>	<b>86</b>	<b>175</b>
<b>Wisconsin (November):</b>						
Barron County.....	1				1	
Brown County.....	1					1
Clark County.....	7			1		6
Columbia County.....	13		1	1	10	1
Dodge County.....	4				4	
Douglas County.....	7				7	
Grant County.....	3					3
Green Lake County.....	2		2			
Kenosha County.....	1					1
Kewaunee County.....	1					1
Manitowoc County.....	1				1	
Marinette County.....	12			7	5	
Milwaukee County.....	3					3
Oconto County.....	7				7	
Price County.....	12				10	2
Rock County.....	1				1	
Rusk County.....	1					1
St. Croix County.....	7		3	2	2	
Shawano County.....	1				1	
Washington County.....	2				2	
Winnebago County.....	12				12	
<b>Total.....</b>	<b>99</b>		<b>6</b>	<b>11</b>	<b>63</b>	<b>19</b>

**SMALLPOX—Continued.**

**State Reports for September, October, and November, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Louisiana (November):			Pennsylvania (October):		
Allen Parish.....	1		Allegheny County.....	1	
Calcasieu Parish.....	5		Lawrence County.....	1	
Orleans Parish.....	1		Mercer County.....	1	
Rapides Parish.....	5		Total.....	3	
Total.....	12		Pennsylvania (November):		
Montana (November):			Allegheny County.....	2	
Beaverhead County.....	11		Dauphin County.....	3	
Fergus County—			Total.....	5	
Lewistown.....	1		South Dakota (November):		
Silver Bow County—			Custer County.....	2	
Butte.....	4		Grant County.....	1	
Yellowstone County—			Yankton County.....	6	
Billings.....	2		Total.....	9	
Total.....	18				
Pennsylvania (September):					
Cambria County.....	1				
Lawrence County.....	1				
Total.....	2				

**City Reports for Week Ended Dec. 7, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.....	1		Marinette, Wis.....	1	
Beaumont, Tex.....	9		Marshalltown, Iowa.....	7	
Birmingham, Ala.....	3		Martinsburg, W. Va.....	1	
Burlington, Iowa.....	2		Memphis, Tenn.....	1	
Cape Girardeau, Mo.....	1		Middletown, Ohio.....	1	
Cedar Rapids, Iowa.....	1		Milwaukee, Wis.....	4	
Chicago, Ill.....	1		Minneapolis, Minn.....	6	
Cleveland, Ohio.....	7		Mobile, Ala.....	1	
Colorado Springs, Colo.....	1		Oakland, Cal.....	1	
Columbus, Ga.....	1		Oklahoma City, Okla.....	1	
Corpus Christi, Tex.....	1		Omaha, Nebr.....	5	
Dayton, Ohio.....	1		Peoria, Ill.....	1	
Denver, Colo.....	11		Pomona, Cal.....	6	
Des Moines, Iowa.....	2		Portland, Oreg.....	8	
Detroit, Mich.....	2		Racine, Wis.....	1	
Duluth, Minn.....	1		St. Paul, Minn.....	28	
Elgin, Ill.....	7		Salt Lake City, Utah.....	5	
Fond du Lac, Wis.....	1		Sioux Falls, S. Dak.....	1	
Fresno, Cal.....	3		Steubenville, Ohio.....	1	
Galesburg, Ill.....	1		Superior, Wis.....	2	
Kansas City, Mo.....	1		Toledo, Ohio.....	1	
Lincoln, Nebr.....	4		Wichita, Kans.....	2	

**SYPHILIS.**

**Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.**

	Cases		Cases.
Camp Bowie zone, Tex.....	9	Camp Logan zone, Tex.....	10
Camp Eberts zone, Ark.....	1	Camp McClellan zone, Ala.....	3
Fayetteville sanitary district, N. C.....	1	New London sanitary district, Conn.....	5
Gas and Flame School zone, Ga. and Ala.....	1	Fort Oglethorpe zone, Ga. and Tenn.....	17
Camp Gordon zone, Ga.....	26	Pierre Acid Plant zone, Ga.....	5
Camp Greene zone, N. C.....	7	Camp Pike zone, Ark.....	5
Gulfport health district, Miss.....	1	Camp Shelby zone, Miss.....	1
Camp Jackson zone, S. C.....	17	Camp Sheridan zone, Ala.....	9
Camp Joseph E. Johnson zone, Fla.....	24	Camp Zachary Taylor zone, Ky. and Ind.....	26
Fort Leavenworth zone, Kans.....	2	Tidewater health district, Va.....	3
Camp Lee zone, Va.....	2	Camp Travis zone, Tex.....	5

## TETANUS.

## City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....		1	New York, N. Y.....	1	
Chicago, Ill.....	1		Philadelphia, Pa.....	1	
Houston, Tex.....		1	Wilmington, N. C.....		1
New Haven, Conn.....	1				

## TUBERCULOSIS.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Beavregrad zone, La.....	1
Camp Bowie zone, Tex.....	2
Camp Devens zone, Mass.....	1
Camp Gordon zone, Ga.....	1
Gulfport health district, Miss.....	2
Camp Lee zone, Va.....	3
Camp MacArthur zone, Tex.....	1
Camp Merrit zone, N. J.....	2
New London sanitary district, Conn.....	2
Picric Acid plant zone, Ga.....	3
Camp Pike zone, Ark.....	1
Camp Polk zone, N. C.....	1
Portsmouth and Norfolk County health district, Va.....	2
Portsmouth-Kittery sanitary district, N. H. and Me.....	1
Camp Sevier zone, S. C.....	1
Camp Zachary Taylor zone, Ky. and Ind.....	7
Camp Travis zone, Tex.....	2
Camp Upton zone, N. Y.....	1
Camp Wadsworth zone, S. C.....	1
Camp Wheeler zone, Ga.....	1
Wilmington sanitary district, N. C.....	4

See also diphtheria, measles, scarlet fever, and tuberculosis, page 2347.

## TYPHOID FEVER.

## Cases Reported in Extra-Cantonment Zones, Week Ended Dec. 21, 1918.

Cases.	Cases.
Camp Beavregrad zone, La.....	2
Camp Bowie zone, Tex.....	2
Camp Doniphan zone, Okla.....	3
Gulfport health district, Miss.....	1
Camp Jackson zone, S. C.....	1
Camp Logan zone, Tex.....	1
Camp MacArthur zone, Tex.....	3
Camp Merrit zone, N. J.....	1
New London sanitary district, Conn.....	2
Fort Oglethorpe zone, Ga. and Tenn.....	3
Camp Polk zone, N. C.....	1
Portsmouth and Norfolk County health district, Va.....	1
Camp Sherman zone, Ohio.....	1
Tidewater health district, Va.....	2
Wilmington sanitary district, N. C.....	4

## State Reports for September, October, and November, 1918.

Place.	New cases reported.	Place.	New cases reported.
Connecticut (November):		Louisiana (November)—Continued.	
Fairfield County—		East Baton Rouge Parish.....	3
Bridgport.....	2	Evangeline Parish.....	1
Hartford County—		Iberville Parish.....	2
Hartford.....	1	Natchitoches Parish.....	1
New Haven County—		Orleans Parish.....	11
Guilford.....	1	St. James Parish.....	3
Naugatuck.....	1	Tangipahca Parish.....	3
New Haven.....	5	Total.....	32
Orange.....	1		
New London County—		Michigan (November):	
Norwich.....	1	Allegan County—	
Total.....	12	Salem Township.....	1
		Benzie County—	
Louisiana (November):		Elberta.....	1
Acadia Parish.....	5	Berrien County—	
Avoyelles Parish.....	1	Benton Township.....	1
Bossier Parish.....	1	Watervliet Township.....	1
Calcasieu Parish.....	1	Berrien Springs.....	1

TYPHOID FEVER—Continued.

State Reports for September, October, and November, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Michigan (November)—Continued.</b>		<b>Montana (November)—Continued.</b>	
Calhoun County—		Sanders County.....	2
Athens.....	1	Silver Bow County.....	2
Battle Creek.....	1	<b>Total.....</b>	<b>11</b>
Charlevoix County—		<b>New Jersey (November):</b>	
Boyer City.....	1	Burlington County.....	2
Eaton County—		Camden County.....	2
Grand Ledge.....	1	Cumberland County.....	1
Genesee County—		Essex County.....	6
Flint.....	1	Mercer County.....	1
Gladwin County—		Middlesex County.....	2
Gladwin Township.....	1	Monmouth County.....	4
Gratiot County—		Passaic County.....	2
Alma.....	1	Salem County.....	1
Huron County—		Somerset County.....	2
Harbor Beach Township.....	1	Union County.....	1
Ingham County—		<b>Total.....</b>	<b>24</b>
Lansing.....	1	<b>Ohio (September):</b>	
Lansing Township.....	1	Adams County.....	11
Ionia County—		Allen County.....	8
Ionia.....	1	Ashland County.....	9
Iosco County—		Ashtabula County.....	9
East Tawas.....	1	Athens County.....	12
Isabella County—		Aueiaze County.....	3
Mount Pleasant.....	1	Belmont County.....	13
Kalamazoo County—		Brown County.....	2
Kalamazoo.....	2	Butler County.....	3
Kent County—		Carroll County.....	4
Grand Rapids.....	2	Champaign County.....	5
Lena vee County—		Clark County.....	7
Fairfield Township.....	2	Clermont County.....	2
Onsted.....	1	Clinton County.....	4
Mason County—		Columbiana County.....	16
Ludington.....	2	Coshocton County.....	14
Montmorency County—		Crawford County.....	17
Briley Township.....	1	Cuyahoga County.....	31
Oakland County—		Darke County.....	10
South Lyon.....	1	Defiance County.....	1
Pontiac.....	1	Delaware County.....	7
Saginaw County—		Erie County.....	5
Saeinaw.....	1	Fairfield County.....	2
St. Clair County—		Fayette County.....	7
Wales Township.....	1	Franklin County.....	21
Shiawassee County—		Fulton County.....	3
Perry.....	1	Gallia County.....	2
<b>Total.....</b>	<b>33</b>	Greene County.....	18
<b>Minnesota (November):</b>		Guernsey County.....	6
Anoka County—		Hamilton County.....	17
Columbia Heights.....	1	Hancock County.....	3
Bigstone County—		Hardin County.....	9
Ortonville.....	1	Harrison County.....	3
Brown County—		Henry County.....	4
Springfield.....	1	Highland County.....	10
Hennepin County—		Hocking County.....	5
Minneapolis.....	6	Huron County.....	1
Nicollet County—		Jackson County.....	4
St. Peter.....	3	Jefferson County.....	23
Ramsey County—		Knox County.....	11
St. Paul.....	1	Lawrence County.....	15
Rice County—		Licking County.....	14
Faribault.....	2	Logan County.....	11
St. Louis County—		Lucas County.....	22
Duluth.....	3	Madison County.....	7
Cars on Lake.....	1	Mahoning County.....	28
Swift County—		Marion County.....	11
Appleton.....	1	Medina County.....	4
Wabasha County—		Meigs County.....	7
West Albany Township.....	1	Miami County.....	8
<b>Total.....</b>	<b>21</b>	Monroe County.....	9
<b>Montana (November):</b>		Montgomery County.....	10
Blaine County.....	5	Morrow County.....	5
Cascade County—		Muskingum County.....	13
Great Falls.....	1	Noble County.....	1
Granite County.....	1	Ottawa County.....	6



### TYPHOID FEVER—Continued.

#### State Reports for September, October, and November, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Ohio (September)—Continued.</b>		<b>Ohio (October)—Continued.</b>	
Paulding County.....	2	Morgan County.....	1
Perry County.....	2	Morrow County.....	3
Pickaway County.....	1	Muskingum County.....	4
Pike County.....	1	Ottawa County.....	1
Portage County.....	7	Perry County.....	7
Preble County.....	5	Portage County.....	3
Putnam County.....	3	Preble County.....	1
Richland County.....	5	Putnam County.....	1
Ross County.....	20	Ross County.....	5
Sandusky County.....	8	Sandusky County.....	15
Scioto County.....	14	Scioto County.....	4
Seneca County.....	6	Seneca County.....	2
Shelby County.....	3	Shelby County.....	1
Stark County.....	13	Stark County.....	10
Summit County.....	70	Summit County.....	34
Trumbull County.....	18	Trumbull County.....	17
Tuscarawas County.....	28	Tuscarawas County.....	7
Union County.....	14	Union County.....	17
Van Wert County.....	2	Van Wert County.....	1
Vinton County.....	5	Vinton County.....	5
Warren County.....	2	Warren County.....	1
Washington County.....	9	Washington County.....	4
Wayne County.....	2	Wayne County.....	1
Williams County.....	5	Williams County.....	8
Wood County.....	9	Wood County.....	12
Wyandot County.....	11	Wyandot County.....	1
<b>Total.....</b>	<b>841</b>	<b>Total.....</b>	<b>392</b>
<b>Ohio (October):</b>		<b>Pennsylvania (September):</b>	
Adams County.....	9	Adams County.....	11
Allen County.....	5	Allegheny County.....	93
Ashland County.....	1	Armstrong County.....	22
Ashtabula County.....	6	Beaver County.....	9
Athens County.....	2	Bedford County.....	2
Auracle County.....	5	Berks County.....	28
Belmont County.....	5	Blair County.....	19
Brown County.....	3	Bradford County.....	4
Butler County.....	1	Bucks County.....	12
Champaign County.....	3	Butler County.....	7
Clark County.....	2	Cambria County.....	60
Clermont County.....	7	Cameron County.....	1
Columbiana County.....	4	Carbon County.....	1
Coshocton County.....	1	Center County.....	4
Crawford County.....	8	Chester County.....	98
Cuyahoga County.....	22	Clearfield County.....	20
Darke County.....	10	Clinton County.....	13
Delaware County.....	7	Columbia County.....	3
Fairfield County.....	1	Crawford County.....	8
Franklin County.....	7	Cumberland County.....	5
Gallia County.....	1	Dauphin County.....	23
Geauga County.....	1	Delaware County.....	30
Greene County.....	3	Elk County.....	1
Guernsey County.....	2	Erie County.....	9
Hamilton County.....	12	Fayette County.....	40
Hancock County.....	2	Franklin County.....	11
Hardin County.....	4	Fulton County.....	1
Harrison County.....	6	Greene County.....	1
Henry County.....	5	Huntingdon County.....	2
Highland County.....	3	Indiana County.....	19
Hocking County.....	3	Jefferson County.....	5
Huron County.....	1	Juniata County.....	1
Jackson County.....	3	Lackawanna County.....	11
Jefferson County.....	5	Lancaster County.....	23
Knox County.....	6	Lawrence County.....	5
Lawrence County.....	3	Lebanon County.....	12
Licking County.....	5	Lehigh County.....	35
Logan County.....	6	Luzerne County.....	14
Lorain County.....	1	Lycoming County.....	5
Lucas County.....	11	McKean County.....	1
Mahoning County.....	5	Mercer County.....	7
Marion County.....	2	Mifflin County.....	11
Medina County.....	3	Montgomery County.....	30
Meigs County.....	2	Montour County.....	8
Mercer County.....	5	Northampton County.....	18
Miami County.....	7	Northumberland County.....	46
Monroe County.....	5	Perry County.....	4
Montgomery County.....	5	Philadelphia County.....	52

**TYPHOID FEVER—Continued.**

**State Reports for September, October, and November, 1918—Continued.**

Place.	New cases reported.	Place.	New cases reported.
<b>Pennsylvania (September)—Continued.</b>		<b>Pennsylvania (October)—Continued.</b>	
Schuylkill County.....	12	Tioga County.....	8
Snyder County.....	24	Venango County.....	9
Somerset County.....	9	Washington County.....	17
Susquehanna County.....	6	Wayne County.....	3
Tioga County.....	3	Westmoreland County.....	2
Venango County.....	1	Wyoming County.....	1
Warren County.....	2	York County.....	16
Washington County.....	19		
Westmoreland County.....	26	<b>Total.....</b>	<b>660</b>
Wyoming County.....	1		
York County.....	28	<b>Pennsylvania (November):</b>	
<b>Total.....</b>	<b>976</b>	Adams County.....	3
		Allegheny County.....	14
<b>Pennsylvania (October):</b>		Armstrong County.....	3
Adams County.....	6	Beaver County.....	2
Allegheny County.....	112	Bedford County.....	2
Armstrong County.....	21	Berks County.....	2
Beaver County.....	4	Blair County.....	3
Bedford County.....	11	Bradford County.....	3
Berks County.....	22	Bucks County.....	2
Blair County.....	21	Carbon County.....	1
Bradford County.....	6	Butler County.....	1
Bucks County.....	3	Chester County.....	8
Butler County.....	10	Clearfield County.....	4
Cambria County.....	37	Crawford County.....	2
Center County.....	2	Cumberland County.....	1
Chester County.....	17	Delaware County.....	18
Clearfield County.....	22	Franklin County.....	3
Clinton County.....	3	Huntingdon County.....	3
Columbia County.....	3	Indiana County.....	19
Crawford County.....	6	Jefferson County.....	1
Cumberland County.....	7	Juniata County.....	3
Dauphin County.....	8	Lancaster County.....	5
Delaware County.....	12	Lawrence County.....	4
Elk County.....	12	Lebanon County.....	1
Erie County.....	10	Lehigh County.....	5
Fayette County.....	21	Luzerne County.....	1
Forest County.....	4	Lycoming County.....	9
Franklin County.....	8	Mercer County.....	1
Fulton County.....	4	Mifflin County.....	1
Huntingdon County.....	13	Montgomery County.....	9
Indiana County.....	17	Montour County.....	4
Jefferson County.....	7	Northampton County.....	1
Lackawanna County.....	2	Perry County.....	4
Lancaster County.....	25	Philadelphia County.....	12
Lawrence County.....	2	Potter County.....	1
Lebanon County.....	13	Schuylkill County.....	1
Lehigh County.....	14	Somerset County.....	2
Luzerne County.....	17	Sullivan County.....	1
Lycoming County.....	19	Susquehanna County.....	1
Mercer County.....	6	Tioga County.....	3
Mifflin County.....	2	Venango County.....	2
Monroe County.....	2	Washington County.....	1
Montgomery County.....	8	Westmoreland County.....	12
Montour County.....	5	York County.....	6
Northampton County.....	2		
Northumberland County.....	4	<b>Total.....</b>	<b>185</b>
Perry County.....	2		
Philadelphia County.....	24	<b>Wisconsin (November):</b>	
Potter County.....	1	Marinette County.....	1
Schuylkill County.....	3	Milwaukee County.....	1
Snyder County.....	6	Winnebago County.....	2
Somerset County.....	15		
Susquehanna County.....	3	<b>Total.....</b>	<b>4</b>

## TYPHOID FEVER—Continued.

## City Reports for Week Ended Dec. 7, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alton, Ill.	1		Los Angeles, Cal.	1	1
Arlington, Mass.	1		Martinsburg, W. Va.	1	
Baltimore, Md.	3	2	Methuen, Mass.	1	
Beverly, Mass.	1		Minneapolis, Minn.	1	
Binghamton, N. Y.		1	Mobile, Ala.		1
Birmingham, Ala.	1		Moline, Ill.	18	1
Cambridge, Mass.	1		Morantown, W. Va.	1	
Camden, N. J.	1		Nashville, Tenn.	5	
Charleston, W. Va.	3		Natick, Mass.	1	
Chester, Pa.	1		Newport, R. I.		1
Chicago, Ill.	2	1	New York, N. Y.	18	3
Cincinnati, Ohio.	1	1	Oakland, Cal.	1	
Coffeyville, Kans.	1		Oklahoma City, Okla.	1	
Columbus, Ohio.	1		Philadelphia, Pa.	1	
Cortland, N. Y.	2		Piqua, Ohio.	4	
Denver, Colo.		1	Providence, R. I.	1	1
Detroit, Mich.	2	1	Rochester, N. Y.	1	
Dubuque, Iowa.		2	St. Louis, Mo.	6	2
Durham, N. C.		1	Sunbury, Pa.	1	
Fremont, Ohio.	1		Syracuse, N. Y.	3	2
Fresno, Cal.	1		Tiffin, Ohio.	1	
Indianapolis, Ind.	1		Washington, D. C.	5	2
Kalamazoo, Mich.	1		Wheeling, W. Va.		2
Kansas City, Mo.	1		Wichita, Kans.	1	
Lawrence, Mass.	1		Wilmington, Del.	1	
Little Rock, Ark.	1				

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

## State Reports for September, October, and November, 1918.

State.	Cases reported.			State.	Cases reported.		
	Diphtheria.	Measles.	Scarlet fever.		Diphtheria.	Measles.	Scarlet fever.
Connecticut (November).	209	89	97	Pennsylvania (September).	1,095	616	329
Louisiana (November).	36	71	10	Pennsylvania (October).	1,509	1,021	451
Michigan (November).	629	105	266	Pennsylvania (November).	1,118	529	358
Minnesota (November).	321	21	53	South Dakota (November).	18	9	11
Montana (November).	21		22	Wisconsin (November).	125	63	189
New Jersey (November).	409	238	132				
Ohio (September).	424	180	345				
Ohio (October).	549	322	571				

## City Reports for Week Ended Dec. 7, 1918.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Adams, Mass.	14,406	6								
Akron, Ohio.	93,604	33	6			5				
Alameda, Cal.	28,433	10	2		1				1	
Alexandria, La.	16,232	3				1				
Allentown, Pa.	65,109		2		1					
Alton, Ill.	23,783	17		1						2
Altoona, Pa.	59,712		13			1				
Amarillo, Tex.	20,882	27								
Anderson, Ind.	24,230	8								
Ann Arbor, Mich.	15,041	4								1
Anniston, Ala.	14,326				1					
Ansonia, Conn.	16,954	1								
Appleton, Wis.	18,005	20								
Arlington, Mass.	13,073	3	3							

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended Dec. 7, 1918—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Asbury Park, N. J.	11,629	3								
Attleboro, Mass.	19,776	4			2				1	
Auburn, N. Y.	37,823	11					2			
Augusta, Me.	14,325	8								
Austin, Tex.	35,612	7								
Bakersfield, Cal.	17,543				1					
Baltimore, Md.	594,637	230	26	2	6		6		35	24
Barre, Vt.	12,401	2								
Battle Creek, Mich.	30,159	5	2		1					
Bayonne, N. J.	72,204		7				2		5	
Beatrice, Nebr.	10,437	13								
Beaumont, Tex.	28,851			2						1
Beaver Falls, Pa.	13,749		1							
Bedford, Ind.	10,613	2								
Belleville, N. J.	12,797								1	
Beloit, Wis.	18,547	7								
Benton Harbor, Mich.	11,099		3	2					1	
Berkeley, Cal.	60,427	14	1							
Berlin, N. H.	13,892	4								
Beverly, Mass.	22,128	7								2
Biddeford, Me.	17,760	17								
Binghamton, N. Y.	54,861	12	1				1			1
Birmingham, Ala.	183,716	138	2				2		4	5
Bloomfield, N. J.	19,013		1							
Boise, Idaho	35,951	9								
Boston, Mass.	767,813	254	50	4	5		24		40	22
Bradnock, Pa.	22,060								1	
Brazil, Ind.	10,472	4		1						
Bridgeport, Conn.	124,724	48	4		1				10	1
Bristol, Conn.	16,318	4	1				1		3	1
Brookline, Mass.	33,526	11	2		1		1			1
Brunswick, Ga.	10,984	8			6				1	1
Burlington, Iowa	25,144	22					2			
Butler, Pa.	28,677		2							
Butte, Mont.	44,057				1					
Cairo, Ill.	15,995	11	1				1			
Cambridge, Mass.	114,293	34	5						4	7
Camden, N. J.	108,117	2	2				3		7	
Canton, Ohio	62,566	31	3	1	1		1		1	1
Cape Girardeau, Mo.	11,146	1								
Carlisle, Pa.	10,795		1							
Champaign, Ill.	15,052	6								
Charleston, S. C.	61,041	38	3				2			1
Charleston, W. Va.	31,060	10	1				2			
Charlotte, N. C.	40,759	20	2		1					
Chelsea, Mass.	48,405	8	1						2	1
Chester, Pa.	41,857	2							2	
Chicago, Ill.	2,547,201	830	122	12	36		41	1	225	72
Chicopee, Mass.	29,950	9	1							2
Chillicothe, Ohio	15,625	8			1					
Cincinnati, Ohio	414,248	264	14	2	1		7		18	9
Cleveland, Ohio	692,259	371	26	1	4	1	12		24	17
Clinton, Mass.	13,075	6							1	1
Cohoes, N. Y.	25,292	5							4	
Colorado Springs, Colo.	38,965	58							3	10
Columbia, S. C.	35,165				3		1		1	
Columbus, Ga.	26,306	10							1	
Columbus, Ohio	220,135	160	2		2		3		6	8
Concord, N. H.	22,858	10								
Corpus Christi, Tex.	10,789	8								
Cortland, N. Y.	13,321	6	1				1		1	1
Covington, Ky.	50,623	25	4				1		2	3
Cranston, R. I.	26,773	8					3			
Crawfordsville, Ind.	11,443	8								
Dallas, Tex.	123,738	80					1		1	3
Danville, Ill.	32,969	18								1
Danville, Va.	20,183	12								
Davenport, Iowa	49,618		2							
Dayton, Ohio	128,939		3	2					3	2
Dedham, Mass.	10,618	2								
Denver, Colo.	266,439	265	6		2		2			34
Des Moines, Iowa	104,052		8		1		3			

<sup>1</sup> Population Apr. 15, 1910.

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

City Reports for Week Ended Dec. 7, 1918—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. (census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Detroit, Mich.	619,648	257	84	7	2		25		27	17
Dover, N. H.	13,276	5								
Dubuque, Iowa	40,096		2							
Duluth, Minn.	97,077	34	12	2		3			6	
Durham, N. C.	26,160	1	1						1	1
East Chicago, Ind.	30,286	13		1						1
East Orange, N. J.	43,761	7	1			1		2		
Elgin, Ill.	28,562	8								
Elmira, N. Y.	38,272				1		5			
Englewood, N. J.	12,603	4								
Eric, Pa.	76,592		14							
Evanston, Ill.	29,304	11								
Everett, Mass.	40,160									2
Fall River, Mass.	129,828	52	2		1	1		13	6	
Fargo, N. Dak.	17,872	7				3				
Findlay, Ohio.	14,858	3	1		1					
Fond du Lac, Wis.	21,486	7								
Fort Worth, Tex.	109,597	41	1			3		1	1	
Framingham, Mass.	14,149	6						2		
Frankfort, Ind.	10,103	4								
Frederick, Md.	11,225	7					1			
Fremont, Ohio.	11,034	12								
Fresno, Cal.	36,314	13				4		1		
Galesburg, Ill.	24,629	4			8					
Galveston, Tex.	42,650	17							2	
Gardner, Mass.	17,534		4			2		2		
Geneva, N. Y.	13,915	5				2				
Glens Falls, N. Y.	17,160	5								
Grand Rapids, Mich.	132,861	68	8	1	2	2		6	2	
Green Bay, Wis.	30,017	28	1							
Greenfield, Mass.	12,251	8		1		1				
Greenwich, Conn.	19,594					5				
Hackensack, N. J.	17,412	12	1					1		
Hammond, Ind.	27,016	11	9			4				
Hancock, Mich.	12,578	3								
Harrisburg, Pa.	73,276		4							
Hattiesburg, Miss.	17,357		1							
Haverhill, Mass.	49,180	24	1			1			2	
Hazleton, Pa.	28,881		2			1				
Helena, Ark.	11,122	7						1	1	
Henderson, Ky.	12,312	18							1	1
Hoboken, N. J.	78,324	16	3		1			4	2	
Holland, Mich.	12,450	4								
Houston, Tex.	116,878	34								2
Independence, Mo.	11,065	22						1		
Indianapolis, Ind.	283,622	129	20	2		1		3	10	
Ithaca, N. Y.	16,017	8	1			1				
Jackson, Mich.	35,896	13	3			2			1	
Jacksonville, Ill.	15,506	16								
Jamestown, N. Y.	37,431	4	3							
Janesville, Wis.	14,411	6								1
Jersey City, N. J.	312,557		17			6		19		
Johnstown, Pa.	70,473		5		2			2		
Kalamazoo, Mich.	50,408	33	1	1		2			1	
Kansas City, Kans.	102,096		3			1		2		
Kansas City, Mo.	305,816	265	5	2		1		3	10	
Knoxville, Tenn.	59,112		1					2	2	
Kokomo, Ind.	21,929	11	3						1	
La Crosse, Wis.	31,833	23							1	
La Fayette, Ind.	21,481	10	3	1						
Lancaster, Pa.	51,437		1							
Lawrence, Kans.	13,477	6								
Lawrence, Mass.	102,923	35	2					6		
Lima, Ohio.	37,145	13								1
Lincoln, Nebr.	46,957	31	2			7				
Lincoln, R. I.	10,473		2							
Little Rock, Ark.	58,716	23			3	2		6		
Logansport, Ind.	21,338	18				2		1		
Long Beach, Cal.	29,163	11				4				
Los Angeles, Cal.	535,485		18	1	1	7		56	22	
Louisville, Ky.	240,808	127	5					2	11	
Lowell, Mass.	114,366	37	2		1		5	12	2	

1 Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended Dec. 7, 1918—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Lynchburg, Va.	33,497	11								2
Lynn, Mass.	104,534	25	7		3					2
McKeesport, Pa.	48,299					1		1		
Madison, Wis.	31,315				1	1			1	
Malden, Mass.	52,243	15	5							
Manchester, Conn.	15,859	3			1					
Manchester, N. H.	79,607	18	5	1		1			9	
Manitowoc, Wis.	13,931	14				3				3
Marinette, Wis.	14,610	10								
Marion, Ind.	19,923	13	4	2			4			
Marion, Ohio.	24,129				1					
Marquette, Mich.	12,555	8				1			1	
Marshalltown, Iowa	14,519		2			4				
Martinsburg, W. Va.	12,984		2		1					
Mattoon, Ill.	12,764	3								
Medford, Mass.	26,681	5	1	1	2				1	
Melrose, Mass.	17,724	8								
Memphis, Tenn.	151,877		8		1		2		13	
Meridian, Miss.	21,824	8				1			3	
Methuen, Mass.	14,320	4							1	
Middletown, Ohio.	16,384	16	3	3	3		2			1
Milwaukee, Wis.	445,008	246	15	2	2		14		12	13
Minneapolis, Minn.	373,448	141	22	2	2		3			8
Mishawaka, Ind.	17,083	10								
Missoula, Mont.	19,075	23					5			
Mobile, Ala.	59,201	29				1			1	1
Moline, Ill.	27,976	37				1				
Munessen, Pa.	23,070		2							
Montclair, N. J.	27,087	2				1			2	1
Montgomery, Ala.	44,039	7	1			1				1
Morgantown, W. Va.	14,444	6							1	1
Morristown, N. J.	13,410	11							1	
Mount Carmel, Pa.	20,709		1						3	
Mount Vernon, Ohio.	10,877	9								
Nanticoke, Pa.	23,811									
Nashua, N. H.	27,541	4			4					
Nashville, Tenn.	118,136	72	1	1	7		3			4
Natick, Mass.	10,140	7				1				
New Bedford, Mass.	121,622	32	7	1			2		3	1
Newburgh, N. Y.	29,883	13							2	
Newburyport, Mass.	15,291	6								
New Castle, Pa.	41,915		1				1			
New Haven, Conn.	152,275	74	4	2	10	1	1		14	5
New London, Conn.	21,199	10	4	1			3		2	1
New Orleans, La.	377,010	168	2	1			2		23	16
Newport, Ky.	32,133	35	1	1					3	3
Newport, R. I.	30,585	7					1			
Newton, Mass.	44,345	19	5				1			
New York, N. Y.	5,737,492	1,596	249	28	11	2	73	3	267	153
Norfolk, Va.	91,148				1		1		1	1
Norristown, Pa.	31,969								5	
North Adams, Mass.	12,019	3								1
Northampton, Mass.	20,006	11	1	1						
North Braddock, Pa.	15,684				1					
North Tonawanda, N. Y.	14,060	7								
Norwood, Ohio.	23,299	11	1	1			1			
Oakland, Cal.	206,405	85	8				1		4	6
Oak Park, Ill.	27,816	12	6							
Oil City, Pa.	20,162				1				3	
Oklahoma City, Okla.	97,588	31		1			1			1
Olean, N. Y.	16,927	7								
Omaha, Nebr.	177,777	117	6	2	2		5	1		7
Oneonta, N. Y.	11,200	5								
Orange, N. J.	33,636	25	2				1			
Parkersburg, W. Va.	21,059	10								2
Pasadena, Cal.	49,620	16	2							3
Passaic, N. J.	74,478	19	5				3		1	2
Pawtucket, R. I.	60,666	19	1				1			1
Peabody, Mass.	18,785	9								1
Peekskill, N. Y.	19,034	7								1
Peoria, Ill.	72,134	38	4	1						1
Perth Amboy, N. J.	42,646	9					2			1

<sup>1</sup> Population Apr. 15, 1910.

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

## City Reports for Week Ended Dec. 7, 1918—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Philadelphia, Pa.	1,735,514	607	58	12	8		19		73	76
Piqua, Ohio	14,275	6					1			
Pittsburgh, Pa.	586,196		17				8		20	
Pittsfield, Mass.	39,675	18								1
Plainfield, N. J.	24,330	1								
Plymouth, Mass.	14,001	6								
Plymouth, Pa.	19,439		3		1					
Pontiac, Mich.	18,006	10					1			
Port Chester, N. Y.	16,727	7	1	1						
Portland, Me.	64,720	17			1					
Portland, Oreg.	308,309	128	4	1			4		3	4
Poughkeepsie, N. Y.	30,786	9			1					1
Providence, R. I.	259,895	99	17	3			1	1		9
Quincy, Mass.	39,022	13	1				1		2	
Racine, Wis.	47,465	33							2	2
Rahway, N. J.	10,361	3					1			
Raleigh, N. C.	20,274	24					1	1		
Reading, Pa.	111,607		7		5				1	
Redlands, Cal.	14,573	3							1	
Richmond, Va.	158,702	79	3				1			3
Riverside, Cal.	20,496						3			
Roanoke, Va.	46,282	20								2
Rochester, N. Y.	264,714		9		2		6		6	5
Rockford, Ill.	56,739	19	1		1		1			
Rock Island, Ill.	29,452	22					2			
Rocky Mount, N. C.	12,673	4			1					
Rome, N. Y.	24,259								1	
Rutland, Vt.	15,038	2								
Sacramento, Cal.	68,984	37	3	1					2	2
Saginaw, Mich.	56,469	20	8		7		2			
St. Joseph, Mo.	86,498	56	18	3			1			3
St. Louis, Mo.	768,630	592	56	3	3		14	2	31	24
St. Paul, Minn.	252,465	107	24	2			4		6	2
Salem, Mass.	49,346		2							
Salt Lake City, Utah	121,623	91	5				3			2
Sandusky, Ohio	20,226	8	1						1	
Sanford, Me.	11,217	7								
San Jose, Cal.	34,810						1			
Santa Barbara, Cal.	15,340	5							2	
Santa Cruz, Cal.	15,150	6	1							1
Saratoga Springs, N. Y.	13,839	7	7							1
Sault Ste. Marie, Mich.	14,130	2								
Schenectady, N. Y.	103,774	17	6						1	1
Scranton, Pa.	149,541		5				3		4	
Shamokin, Pa.	21,274		7						1	
Sharon, Pa.	19,156		1				2			
Shenandoah, Pa.	29,753		2		3		1		7	
Sioux Falls, S. Dak.	16,887	17								
Somerville, Mass.	88,618	30	6	1			1		3	
South Bend, Ind.	70,967	31			1		2			
Southbridge, Mass.	14,465	16								
Springfield, Ill.	62,623	31	2							2
Springfield, Mass.	108,668	44	5						4	2
Springfield, Mo.	41,169	13								3
Springfield, Ohio	52,296	22			18					2
Steelton, Pa.	15,759		3						5	
Steubenville, Ohio	28,259	22								
Stockton, Cal.	36,209	18								
Sunbury, Pa.	16,661				1					
Superior, Wis.	47,167	16	3							
Syracuse, N. Y.	158,559	51	12		1		8		4	3
Taunton, Mass.	36,610	14			5				1	3
Tiffin, Ohio	12,962	5								
Toledo, Ohio	202,010	89	20	1	3		7			1
Trenton, N. J.	113,874	34	2		1				7	4
Troy, N. Y.	78,094	32			1		1		6	2
Tuscaloosa, Ala.	10,824	4							1	
Waco, Tex.	34,015	14	1		2				1	1
Waltham, Mass.	61,011						4		1	
Warren, Pa.	15,083		1		1					
Washington, D. C.	369,282	149	14	1	1		3		20	13
Washington, Pa.	22,076		1							
Waterloo, Iowa	36,987	14	1							

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

City Reports for Week Ended Dec. 7, 1918—Continued.

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			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Watertown, Mass.	15,188	3	2							
Watertown, N. Y.	30,404	2	1		1					
Wausau, Wis.	19,666	7								
Webster, Mass.	13,484	3							1	
Westfield, Mass.	18,769	12	3							2
West Hoboken, N. J.	44,386	8	1						1	1
West New Ycrk, N. J.	19,613	3								
Wheeling, W. Va.	43,657	43			1					
White Plains, N. Y.	23,331				1		2			
Wichita, Kans.	73,597		1			2				
Wilkes-Barre, Pa.	78,334				1	1			1	
Wilkesburg, Pa.	23,899		3			1			1	
Wilmington, Del.	95,369	45	2						3	
Wilmington, N. C.	30,400	10							1	1
Winchester, Mass.	10,812	2								
Winona, Minn.	18,583	4								
Winthrop, Mass.	13,105					1				
Woburn, Mass.	16,076	9								
Worcester, Mass.	166,106	52	2		6	7				3
Yonkers, N. Y.	103,066	15	1	1						1
Zanesville, Ohio.	31,320	18								

1 Population Apr. 15, 1910.



# FOREIGN.

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## INFLUENZA ON VESSELS.

### Steamships at Australian Ports.

The arrival at ports in Australia of vessels having influenza on board, or having had cases on board during voyage, has been reported as follows:

S. S. *Carina*, November 4, 1918, at Fremantle from Calcutta, having had seven cases of influenza on board at Calcutta.

S. S. *Charon*, October 20, 1918, at Broome from Singapore, having had 17 cases on board and 1 death from pneumonia during voyage.

S. S. *Joan Craig*, November 1, 1918, at Sydney from Greymouth, New Zealand, having had one case of influenza on board.

S. S. *Mataram*, October 18, 1918, at Darwin from Singapore, having had 58 cases of influenza on board.

S. S. *Niagara*, October 12, 1918, at Auckland, New Zealand, having had 100 cases of influenza among crew and passengers and 1 death from broncho-pneumonia. On October 25, 1918, the *Niagara* arrived at Sydney with a history of 4 additional cases occurring in transit after leaving Auckland. One case developed at quarantine station, Sydney, among the crew and passengers landed there.

S. S. *Tango Maru*, November 3, 1918, at Sydney, from Japanese port, having had 10 cases of influenza among Japanese passengers.

S. S. *Tarawera*, November 1, 1918, at Hobart from Auckland, New Zealand, having had seven cases of influenza on board during voyage.

## AUSTRALIA.

### Quarantine Against Influenza.

In consequence of the prevalence of influenza in various parts of the world, including the Union of South Africa, proclamations were issued October 17, 1918, declaring "influenza or any toxic or septicæmic condition similar to influenza," to be a quarantinable disease; appointing ports of entry in Australia for vessels arriving from South Africa; and fixing the period of quarantine at seven days. Vessels from countries other than South Africa with cases of influenza on board, or having had cases on board during voyage, were ordered to be placed in quarantine on arrival, all patients to be isolated at quarantine stations and measures of disinfection carried out. Vessels from New Zealand were directed to be inspected on arrival.

**Restriction of Importation of Animal Hair.**

By quarantine circular issued November 7, 1918, it is prohibited to import into Australia from eastern and south eastern Asia, India, Ceylon, Japan, the East Indian islands, and the Philippine Islands, brushes of any description or toilet articles made from or containing the hair of animals unless such articles were made from hair effectively cleansed and disinfected before manufacture.

**CHINA.****Influenza—Canton—Chefoo—Hankow.**

At Canton influenza was reported prevalent in mild form, November 2, 1918; at Chefoo a general epidemic of influenza was reported October 28, 1918; at Hankow, October 30, 1918, influenza was reported prevalent among Chinese in the city and in surrounding country.

On November 9, 1918, influenza was reported to be increasing at Canton.

**CHOSEN (KOREA).****Influenza—Chemulpo—Fusan—Seoul.**

Influenza was reported present in Chosen (Korea), during the months of September and October, 1918, at Chemulpo, Fusan, and Seoul.

**DENMARK.****Further Relative to Influenza—Odensee.<sup>1</sup>**

During the week ended November 9, 1918, 2,158 new cases of influenza were notified at Odensee, Denmark (previous week, 1,692 cases). The epidemic was stated to be still spreading throughout the district but with lower mortality than had been reported from other localities in Scandinavian countries.

**DOMINICAN REPUBLIC.****Influenza—La Plata.**

A severe epidemic of influenza was reported at La Plata, Santo Domingo, December 19, 1918.

**HONDURAS.****Influenza—San Pedro Sula.**

Influenza was reported present in epidemic form at San Pedro Sula, Honduras, during the month of November, 1918.

**INDIA.****Influenza.**

Influenza was reported seriously prevalent in many parts of India in November, 1918.

<sup>1</sup> Public Health Reports, Dec. 13, 1918, p. 2244.

**PERU.****Influenza.**

Influenza has been reported present in Peru under date of October 26, 1918. The first outbreak was reported in the mining region of Marococho. Later, the larger cities of Peru were attacked. At Arequipa influenza was reported with many fatalities. At Callao and Lima the disease was stated to be mild in form.

**RUSSIA.****Cholera—Typhus Fever—July-September, 1918.**

*Cholera.*—Reports received from the municipal authorities of Petrograd show that from July 17 to 31, 1918, 1,826 cases of cholera were treated in the civil hospitals of that city and from August 1 to 21, 1,117 cases; in military hospitals, during the months of July and August, 1918, 884 cases were treated. In Courland and Lithuania cholera was reported present in July and August with 8 cases each. At Odessa cholera was reported present during the last week in August, 1918. In the Ukraine from July to August, 1918, 250 cases were reported.

*Typhus fever.*—Typhus fever was reported present in Lithuania in July and August, 1918, with 928 cases; in Poland, July 21 to September 14, with 1,590 cases, of which 56 cases occurred at Lodz, the chief manufacturing town of Poland (population, 351,000), and 341 cases at Warsaw (population, 771,000).

**Influenza—Archangel.**

Influenza was reported present at Archangel, Russia, during the period from October 1 to 15, 1918.

**VENEZUELA.****Influenza—Caracas—General Mortality.**

Influenza was reported present at Caracas October 25, 1918, with an estimated case rate of 70 per cent of the population, which is officially estimated at about 80,000. The normal daily occurrence of deaths at Caracas is stated to be about 10 or 12. The total number of deaths reported at Caracas from October 28 to November 30, 1918, was 1,745, occurring as follows:

Date.	Deaths.	Date.	Deaths.	Date.	Deaths.
Oct. 28-30.....	251	Nov. 11.....	49	Nov. 23.....	17
Oct. 31.....	89	Nov. 12.....	54	Nov. 24.....	6
Nov. 1.....	105	Nov. 13.....	36	Nov. 25.....	9
Nov. 2.....	114	Nov. 14.....	45	Nov. 26.....	18
Nov. 3.....	104	Nov. 15.....	36	Nov. 27.....	16
Nov. 4.....	104	Nov. 16.....	30	Nov. 28.....	9
Nov. 5.....	115	Nov. 17.....	38	Nov. 29.....	13
Nov. 6.....	86	Nov. 18.....	18	Nov. 30.....	15
Nov. 7.....	74	Nov. 19.....	11		
Nov. 8.....	68	Nov. 20.....	23		
Nov. 9.....	76	Nov. 21.....	12		
Nov. 10.....	93	Nov. 22.....	11		
				Total.....	1,745

**Influenza at Other Localities.**

Outbreaks of influenza, with high rate of mortality, have been reported at Carupano, Ciudad Bolivar, Coro, and Valencia.

**WEST AFRICA.**

**Influenza—Dahomey—Gaboon—Soudan.**

Influenza has been reported present at Kotonou, Dahomey; in the district of Gaboon; and at Zinder in French Soudan.

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

**Reports Received During Week Ended Dec. 27, 1918.<sup>1</sup>**

**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary:				
Galicia.....	July 31.....	4	.....	
Hungary.....	July 8-Aug. 25....	26	4	
Germany:				
Berlin.....	Sept. 22-28.....	7	6	
India:				
Calcutta.....	.....do.....	5	.....	
Madras.....	Sept. 22-Oct. 5....	135	75	
Java:				
East Java—				
Surabaya.....	Sept. 17-Oct. 7....	197	161	
Mid-Java.....	Sept. 5-25.....	1,155	613	
West Java.....	.....	.....	.....	Sept. 19-Oct. 2, 1918: Cases, 112; deaths, 59.
Batavia.....	Sept. 19-Oct. 2....	36	37	
Russia:				
Courland.....	July 28-Aug. 31....	8	7	
Lithuania.....	July 7-Aug. 10....	8	3	
Moscow.....	.....	.....	.....	To Aug. 16, 1918: 281 cases in hospitals; recrudescence.
Odessa.....	Aug. 25-Sept. 1....	.....	.....	Present.
Petrograd.....	July 17-Aug. 21....	2,943	.....	In civil hospitals; in military hospitals, 884 cases.
Ukraine.....	July 6-Aug. 10....	250	.....	
Turkey:				
Trebizond.....	.....	.....	.....	Present in October, 1918.

**PLAGUE.**

India.....	.....	.....	.....	Sept. 8-21, 1918: Cases, 4,956; deaths, 3,535.
Madras Presidency.....	Sept. 22-28.....	249	164	
Java:				
East Java—				
Surabaya.....	Sept. 17-Oct. 7....	55	56	

**SMALLPOX.**

Canada:				
Nova Scotia—				
Halifax.....	Dec. 1-7.....	5	.....	
China:				
Chungking.....	Oct. 13-26.....	.....	.....	Present.
Nanking.....	Oct. 27-Nov. 2....	.....	.....	Do.
Germany.....	.....	.....	.....	Aug. 4-Sept. 14, 1918: Cases, 7.
India:				
Madras.....	Sept. 22-Oct. 5....	39	22	

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

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

### Reports Received During Week Ended Dec. 27, 1918—Continued.

#### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java—				
Surabaya.....	Sept. 17-Oct. 7....	25		
Mid-Java.....	Sept. 5-25.....	40		
West Java.....				
Batavia.....	Sept. 19-25.....	47	39	Sept. 19-25, 1918: Cases, 137; deaths, 49.
Newfoundland:				
Bell Island.....	Nov. 30-Dec. 6....	2		
Blaketown.....	do.....	1		
Bryants Cove.....	do.....	1		
St. Johns.....	do.....	3		
Shearstown.....	do.....	2		
Russia:				
Courland.....	July 7-Aug. 24....	11	1	
Lithuania.....	July 7-Aug. 31....	81	5	

#### TYPHUS FEVER.

Russia:				
Archangel.....	Aug. 1-15.....	4		
Lithuania.....	July 7-Aug. 31....	928	33	July 21-Sept. 14, 1918: Cases, 1,520; deaths, 145.
Poland.....				
Lodz.....	July 7-Sept. 14....	56	5	
Warsaw.....	do.....	341	40	

#### YELLOW FEVER.

Brazil:				
Bahia.....	July 7-27.....	2		

### Reports Received from June 29 to Dec. 27, 1918.

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Albania.....				Aug. 7, 1918: Present.
Austria-Hungary:				
Gallia.....	July 31.....	4		
Hungary.....	July 8-Aug. 25....	26	4	
Germany:				
Berlin.....	Sept. 22-28.....	7	6	
India:				
Bombay.....	Mar. 17-June 29...	12	8	
Do.....	June 30-Aug. 17...	4	2	
Calcutta.....	Apr. 14-June 23...		453	May 19-June 1, 1918: Deaths, 74.
Do.....	June 30-Sept. 28...		100	
Madras.....	Mar. 24-June 1....	7	4	
Do.....	July 6-Oct. 7.....	255	145	
Mandalay.....	May 5-June 15....		8	
Mergui.....	May 19-25.....		1	
Pegu.....	May 20-June 1....		1	
Rangoon.....	Mar. 30-May 18....	25	19	
Do.....	June 29-Sept. 14...	5	3	
Indo-China.....				Jan. 1-May 31, 1918: Cases, 650; deaths, 443.
Anam.....	Mar. 1-May 31....	16	13	
Cambodia.....	Jan. 1-May 31....	286	217	
Cochin-China.....	do.....	319	207	May 20-June 16, 1918: Cases, 66; deaths, 55.
Cholon.....	May 23-June 16...	4		
Sai-ton.....	Apr. 20-Oct. 6....	112	36	
Kwang-Chow-Wan.....	May 1-31.....	3	3	
Tonkin.....	Jan. 1-May 31....	16	3	

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

### CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Java:</b>				
East Java—				
Surabaya.....	June 6-12.....	13	8	Present July 24.
Do.....	June 25-Oct. 7.....	943	740	
Mid-Java.....				Apr. 18-June 26, 1918: Cases, 864; deaths, 653. June 27-Sept. 25, 1918: Cases, 2,431; deaths, 2,711. Feb. 22-June 27, 1918: Cases, 1,432; deaths, 869; June 28-Oct. 2, 1918: Cases, 1,162; deaths, 702.
West Java.....				
Batavia.....	Feb. 22-June 27.....	231	103	
Do.....	June 28-Oct. 2.....	1,248	739	
Cheribon.....	June 7-27.....	146	111	
Mesopotamia:				
Bagdad.....	Aug. 24-Sept. 13.....	4		
Roumania:				
Braila.....				Reported present in September 1918.
Persia.....				June 16-23, 1918: Deaths, 191.
Chiraz Province.....	June 27.....			Present, especially among tribes of Gashgaye and in the city of Darab.
Ispahan.....	July 15-16.....		60	
Kazovine.....	June 12-15.....			Present.
Kars Province—				
Kazaroun.....				December, 1917: 3 or 4 deaths reported daily.
Koum.....	July 13-19.....	1		In surrounding villages, 4 cases.
Mahour-Milati.....				Present in December, 1917, with about 300 fatal cases reported.
Kerman Province—				
Kerman.....				Outbreak, Feb. 5, 1918.
Khorasan.....				Oct. 2-Nov. 16, 1917: Cases, 78; deaths, 56; in 7 localities.
Seistan.....				Nov. 4, 1917: Cases, 6. A part of this Province or region extends into Afghanistan.
<b>Philippine Islands:</b>				
Manila.....	Sept. 22-Oct. 26.....	24	25	
Provinces.....				Apr. 28-June 29, 1918: Cases, 677; deaths, 428. June 30-Oct. 20, 1918: Cases, 2,370; deaths, 1,127.
Batangas.....	Oct. 13-26.....	320	737	
Bohol.....	Apr. 28-June 29.....	65	53	
Do.....	July 7-Oct. 26.....	610	511	
Bulacan.....	Sept. 29-Oct. 26.....	16	8	
Capiz.....	Apr. 28-May 4.....	1	1	
Cavite.....	Sept. 22-Oct. 26.....	112	77	
Cebu.....	May 5-June 22.....	35	16	
Do.....	June 30-Oct. 26.....	495	290	
Iloilo.....	Oct. 6-26.....	55	33	
Lanao.....	do.....	19	19	
Leyte.....	Apr. 28-June 29.....	108	39	
Do.....	June 30-Sept. 7.....	58	36	
Misamis.....	Apr. 28-June 22.....	294	163	
Do.....	June 30-Oct. 19.....	329	112	
Oriental Negros.....	June 3-29.....	42	23	
Do.....	June 30-Oct. 26.....	157	76	
Pangasinan.....	Sept. 29-Oct. 26.....	60	40	
Rizal.....	do.....	57	26	
Sorsogon.....	June 2-29.....	112	100	
Do.....	July 14-Oct. 12.....	177	77	
Surigao.....	Apr. 28-June 22.....	92	89	
Do.....	June 30-Aug. 17.....	17	17	
Union.....	Oct. 6-26.....	7	6	
<b>Russia:</b>				
Astara.....	Jan. 9-Feb. 27.....	58	48	In vicinity, Feb. 11-23, 1918: Cases, 17; deaths, 14. Province of Transcaucasia.
Courland.....	July 28-Aug. 31.....	8	7	
Lithuania.....	July 7-Aug. 10.....	8	3	
Moscow.....	To Aug. 16.....	281		In hospitals. Recrudescence.
Odessa.....	Aug. 25-Sept. 1.....			Present.
Petrograd.....	July 16-Aug. 31.....	6,331	2,500	In civil hospitals. In military hospitals, 664 cases, 703 deaths.
Poland—				
Warsaw.....	July 4.....	4		
Ukraine.....	July 6-Aug. 10.....	250		

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

### Reports Received from June 29 to Dec. 27, 1918—Continued.

#### CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Sweden:				
Stockholm .....	July 15.....	5	1	From S. S. Angermanland from Petrograd, Russia.
Switzerland .....				July 28, 1918: Present.
Turkey in Asia:				
Trebizond .....				Present Oct., 1918.
On vessel:				
S. S. Angermanland.....	July 14.....	8	1	At Stockholm; from Petrograd.

#### PLAGUE.

Algeria:				
Algiers .....	Sept. 1-30.....	1		
Arabia:				
Aden .....	May 23-28.....		1	
Hedjaz .....	Oct. 7-11.....	2		Total cases present Oct. 11, 1918, 29.
Argentina:				
Buenos Aires.....	Apr. 20-May 22...	16	2	
Tucuman .....				In March, 1918: 3 cases in an institution.
Brazil:				
Bahia .....	June 16-22.....	1	1	
Ceylon:				
Colombo .....	Mar. 23-June 29.....	22	21	
Do .....	June 30-Aug. 24.....	2	1	
China:				
Amoy .....	July 22-Sept. 30.....			Present.
Hongkong .....	Apr. 14-June 29.....	124	94	
Do .....	June 30-Oct. 19.....	132	106	
Ecuador:				
Duran .....	Apr. 1-30.....	2		
Guayaquil .....	May 1-June 15.....	28	10	
Do .....	July 1-Oct. 31.....	3	3	Feb. 1-28, 1918: Cases, 22; deaths, 8.
Egypt:				
Alexandria.....	Sept. 24-30.....	1		Jan. 1-July 4, 1918: Cases, 438; deaths, 228.
Port Said .....	May 19-21.....	2	1	1 pneumonic.
Do .....	July 4.....	1	1	
Provinces—				
Assiout .....	July 27-29.....	2	1	
Beni-Souef.....	Apr. 26-30.....	2	1	
Fayoum .....	Apr. 21-June 27.....	10	4	
Gizeh .....	June 30.....	1		
Keneh .....	May 16.....	1		
Minieh .....	Apr. 23-June 10.....	33	14	5 septicemic.
Do .....	June 27-Oct. 20.....	18	4	1 pneumonic.
Great Britain:				
Erwarton .....	June 19.....	1	1	Rural district, Sanford, East Suffolk.
London, Port .....	Aug. 17.....	5		On vessel from Calcutta.
Rochester.....	June 2.....	1	1	From S. S. Somali at Gravesend from Bombay.
India:				
Bassein .....	Mar. 25-June 15.....		149	Mar. 31-June 29, 1918: Cases, 163,977; deaths, 132,917. June 30-Sept. 21, 1918: Cases, 19,201; deaths, 15,109.
Do .....	July 7-27.....		9	
Bombay .....	Mar. 21-June 29.....	992	801	
Do .....	June 30-Aug. 17.....	75	61	
Calcutta .....	Apr. 14-June 29.....		110	May 19-June 1, 1918: Deaths, 30.
Do .....	June 30-July 20.....		10	
Henzada .....	Mar. 24-June 29.....		23	
Karachi .....	Apr. 21-June 29.....	879	807	
Do .....	June 30-Sept. 21.....	63	55	
Madras .....	Sept. 1-7.....	1	1	
Madras Presidency.....	Mar. 21-June 15.....	493	362	Mar. 17-May 4, 1918: Cases, 1,133; deaths, 820.
Do .....	July 14-Sept. 28.....	1,297	901	
Mandalay .....	Mar. 17-Apr. 20.....		52	
Moulmein.....	Mar. 24-June 29.....		144	
Do .....	July 7-27.....		16	
Myingyan.....	Mar. 17-Apr. 14.....		10	
Pegu .....	Apr. 14-June 29.....		14	
Do .....	July 7-20.....		3	
Prome .....	Mar. 24-June 15.....		34	
Do .....	July 7-27.....		38	

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

### PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Rangoon.....	Mar. 30-June 22...	433	418	
Do.....	June 30-Sept. 21...	268	253	
Toungoo.....	Mar. 24-Apr. 27.....		59	
Indo-China.....				Jan. 1-May 31, 1918: Cases, 1,287; deaths, 797.
Anam.....	Jan. 1-May 31.....	215	138	
Cambodia.....	do.....	352	367	
Cochin-China.....	do.....	227	121	May 29-June 8, 1918: Cases, 66; deaths, 30.
Cholon.....	May 30-June 8.....	12	6	
Saigon.....	Apr. 29-Oct. 6.....	76	43	
Kwang-Chow-Wan.....	Mar. 1-May 31.....	286	260	
Laos.....	Feb. 1-28.....	4	2	
Tonkin.....	Mar. 1-May 31.....	63	55	
<b>Java:</b>				
East Java.....				Jan. 15-Apr. 22, 1918: Cases, 328; deaths, 226.
Residences—				
Djokjokarta.....	Jan. 15-Apr. 8.....	3	34	
Kediri.....	do.....	13	10	
Madioen.....	do.....	30	30	
Samarang.....	do.....	82	81	
Surabaya.....	do.....	97	87	June 11-24, 1918: Cases, 21; deaths, 21. June 25-Sept. 4, 1918: Cases, 60; deaths, 60.
Do.....	Aug. 27-Oct. 7.....	122	122	
Surakarta.....	Jan. 15-Apr. 8.....	12	12	
Mid-Java.....	July 11-Sept. 18.....	94	94	
West Java.....				Aug. 17-28, 1918: Cases, 73; deaths, 46.
Batavia.....	Aug. 17-28.....	49	28	
<b>Mesopotamia:</b>				
Amara.....	May 21-27.....			Present.
Bagdad.....	July 27-Aug. 2.....	4	2	
Bassora.....	May 21-27.....			Do.
Peru.....				Jan. 1-June 30, 1917: Cases, 245; deaths, 122. July 1-Dec. 31, 1917: Cases, 169; deaths, 89. For distribution according to departments, see Public Health Reports, July 26, 1918, p. 1261. Apr. 1-May 31, 1918: Cases, 71.
Departments—				
Ancachs.....	Apr. 1-15.....	1		
Cajamarca.....	Apr. 16-May 31.....	7		
Lambayeque.....	do.....	8		
Libertad.....	Apr. 1-May 31.....	40		
Lima.....	do.....	6		
Piura.....	do.....	9		
Rhodesia.....	May 1-9.....		56	Present in Luangwa Valley, Jan. 1917, with 93 fatal cases.
<b>Siam:</b>				
Bangkok.....	May 10-June 20.....	82	62	
Do.....	July 2-Sept. 21.....	49	35	
<b>Straits Settlements:</b>				
Penang.....	June 2-29.....	6	6	
Do.....	June 30-Sept. 28.....	8	7	
Singapore.....	Apr. 2-June 22.....	61	53	
Do.....	June 20-Aug. 17.....	12	9	
Venezuela.....				Jan.-Sept., 1918: Cases, 64; deaths, 21. One case septice-mic. Vicinity of Charallave.
<b>On vessel:</b>				
S. S. Hector.....	Aug. 10-21.....			At Gravesend, port of London, 6 members of crew.
S. S. Mora.....	Aug. 31.....	3	2	At Dundee, Scotland, from Calcutta. One of cases pneumonic.
S. S. Somali.....	May 19.....	3	1	At Gravesend, England, from Bombay. Further case developed June 2 in member of crew at Rochester, England.
S. S. Sunning.....			1	Local steamer at Shanghai; reported Aug. 14, 1918.

### SMALLPOX.

<b>Algeria:</b>				
Algiers.....	May 1-June 30....	121	34	
Do.....	July 1-31.....	1		
<b>Brasil:</b>				
Bahja.....	May 5-June 22....	2		
Rio de Janeiro.....	May 5-June 29....	30	4	
Do.....	June 20-Sept. 28...	268	60	
Santos.....	Apr. 22-28.....		1	



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

### Reports Received from June 29 to Dec. 27, 1918—Continued.

#### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
British East Africa:				
Mombasa.....	Jan. 1-June 30.....		5	
Canada:				
British Columbia—				
Victoria.....	June 23-29.....	4		
Do.....	July 7-Aug. 3.....	2		
Manitoba—				
Winnipeg.....	June 9-22.....	5		
Do.....	July 7-26.....	4		
New Brunswick—				
Moncton.....	June 16-22.....	2		
Do.....	July 7-13.....	4		
St. John.....	Nov. 3-16.....	2		
Nova Scotia—				
Halifax.....	June 23-28.....	10		
Do.....	June 30-Dec. 7.....	127		
Sydney.....	June 30-Nov. 16.....	5		
Ontario.....				
Gloucester.....	Aug. 1-31.....	1		
Nipissing district.....	do.....	5	1	
Ottawa.....	do.....	8		
Wallaceburg.....	do.....	2		
Windsor.....	July 21-27.....	1		
Prince Edward Island—				
Summerside.....	July 9-15.....	1		
Quebec—				
Montreal.....	July 7-Nov. 23.....	8		
Canal Zone:				
Colon.....	Sept. 22-28.....	1		
Panama.....	Aug. 12-Sept. 28.....	80		
Ceylon:				
Colombo.....	Mar. 22-June 29.....	30	2	
Do.....	June 30-July 27.....	8	2	
China:				
Amoy.....	Apr. 1-June 29.....			Present.
Do.....	June 30-Oct. 13.....			Do.
Antung.....	May 20-Aug. 4.....	7	1	
Chungking.....	May 12-June 29.....			Do.
Do.....	July 21-Oct. 26.....			Do.
Dairen.....	May 7-July 1.....	51	10	
Do.....	July 2-15.....	6	1	
Foochow.....	Aug. 18-Oct. 19.....			Do.
Haller Station.....	Feb. 12-18.....	2		Chinese Eastern Ry.
Harbin.....	Mar. 20-June 3.....	4		Do.
Do.....	July 1-7.....	2		Do.
Manchuria Station.....	Feb. 19-June 9.....	5		Do.
Hongkong.....	Apr. 6-June 8.....	19	2	
Do.....	July 28-Aug. 3.....	1	1	
Naunking.....	June 16-22.....			Present.
Do.....	June 30-Nov. 2.....			Do.
Shanghai.....	Apr. 21-June 24.....	3		
Tientsin.....	May 19-June 15.....	10		
Tsingtao.....	May 6-June 30.....	28	1	
Do.....	July 1-14.....	4		
Chosen (Korea):				
Chemulpo.....	July 1-31.....	2	1	
Colombia:				
Barranquilla.....	July 14-Oct. 19.....	4	1	
Cartagena.....	May 21-July 1.....		2	
Do.....	July 8-Aug. 19.....		2	
Cuba:				
Cienfuegos.....	Oct. 20-26.....	2	2	
Denmark:				
Copenhagen.....	June 16-22.....	13		
Do.....	July 20-Nov. 2.....	24	1	
Ecuador:				
Guayaquil.....	Apr. 1-30.....	2		
Egypt:				
Alexandria.....	May 7-13.....	1		
France:				
La Rochelle.....	June 2-8.....	1	1	
Paris.....	Apr. 21-June 29.....	14	3	
Do.....	June 30-Oct. 26.....	20	5	
Rouen.....	May 12-June 15.....	6		
Germany.....				Including varioloid.
Great Britain:				May 12-Sept. 14, 1918: Cases, 91.
Liverpool.....	June 9-15.....	1		From vessel.

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Kalamata .....	June 29 .....			Present.
India:				
Bombay .....	Mar. 24-June 29 .....	1,167	574	
Do. ....	June 30-Aug. 17 .....	43	19	
Calcutta .....	Apr. 14-June 29 .....		246	
Do. ....	June 30-Sept. 7 .....		57	
Karachi .....	Apr. 6-June 29 .....	206	149	
Do. ....	June 30-Sept. 14 .....	23	3	
Madras .....	Mar. 21-June 15 .....	77	27	June 16-22, 1918: Cases, 9; Deaths, 6.
Do. ....	June 30-Oct. 5 .....	173	70	Mar. 17-May 4, 1918: Cases, 77; deaths, 33.
Rangoon .....	Mar. 31-June 22 .....	81	35	
Do. ....	June 30-Sept. 28 .....	13	10	
Indo-China:				
Anam .....	Jan. 1-May 31 .....	1,419	196	Jan. 1-May 31, 1918: Cases, 4,654; deaths, 1,079.
Cambodia .....	do. ....	248	74	
Cochin-China .....	do. ....	2,252	793	May 29-June 16, 1918: Cases, 67; deaths, 24.
Cholon .....	May 29-June 16 .....	1	1	
Saigon .....	July 30-Oct. 6 .....	36	6	
Kwang-Chow-Wan .....	Feb. 1-May 31 .....	164	68	
Laos .....	Jan. 1-Feb. 28 .....	8	1	
Tonkin .....	Jan. 1-May 31 .....	557	56	
Italy:				
Genoa .....	June 14-30 .....	19	5	
Do. ....	July 2-Aug. 15 .....	30	7	
Mezzojuso .....	May 29 .....			Many cases. Province of Palermo, Sicily.
Milan .....	July 1-Oct. 31 .....	30		In April, 1918: Cases, 2. May 1-31, 1918: Cases, 54.
Palermo .....	May 30-June 5 .....	1		
Turin .....	Apr. 15-June 9 .....	16	1	
Japan:				
Kobe .....	Aug. 18-31 .....	2	2	
Nagasaki .....	May 2-June 30 .....	14	2	
Do. ....	July 3-21 .....	1	1	
Taihoku .....	May 21-July 1 .....	18	9	Island of Formosa.
Do. ....	July 2-Sept. 16 .....	9	3	
Tokyo .....	May 5-June 23 .....	24	3	Feb. 14-Mar. 13, 1918: Cases, 15.
Java:				
East Java—				
Surabaya .....	Feb. 26-June 24 .....	10	3	
Do. ....	June 25-Oct. 7 .....	115		
Mid-Java .....				Feb. 14-June 26, 1918: Cases, 114; deaths, 3. June 27-Sept. 25, 1918: Cases, 180; deaths, 5.
West Java .....				Feb. 22-June 27, 1918: Cases, 403; deaths, 148. June 28-Oct. 18, 1918: Cases, 836; deaths, 692.
Batavia .....	Feb. 2-June 27 .....	108	50	
Do. ....	June 28-Oct. 18 .....	188	145	
Mesopotamia:				
Bagdad .....	Mar. 6-June 28 .....	47	7	
Do. ....	June 30-July 12 .....	3		
Mexico:				
Agua Calientes .....	June 10-16 .....		1	
Guadalajara .....	June 1-30 .....	3		
Do. ....	July 1-Sept. 30 .....	2	1	
Mazatlan .....	June 5-25 .....		2	
Do. ....	July 3-Aug. 6 .....		3	
Mexico City .....	May 19-June 22 .....	78		
Do. ....	June 30-Sept. 21 .....	32		
Vera Cruz .....	Sept. 16-Oct. 27 .....	4	2	
Newfoundland:				
Arnolds Cove .....	Oct. 12-18 .....	1		
Bay Roberts .....	Aug. 23-Sept. 13 .....	8		
Bell Island .....	Sept. 21-Nov. 15 .....	2		
Blaketown .....	Nov. 3-9 .....	1		
Bonnie Bay .....	Nov. 9-15 .....	1		
Carmanville .....	Aug. 31-Sept. 6 .....	2		
Colliers .....	Aug. 31-Nov. 22 .....	13		
Conche .....	Nov. 9-15 .....	2		
East Wabana .....	Aug. 23-30 .....	1		
Greenspond .....	Sept. 21 .....	2		
Harbor Grace .....	Oct. 25-Nov. 1 .....	1		
Keels .....	Oct. 5-11 .....	4		
Marystown .....	Oct. 25-Nov. 9 .....	11		
Musgrave .....	Sept. 21-Nov. 22 .....	3		
Newton .....	Nov. 9-15 .....	1		

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Newfoundland—Continued.				
Placentia.....	Nov. 23-29.....	2	1	
Renoultre.....	Oct. 19-25.....	5		
St. Johns.....	Sept. 28-Nov. 29..	7	1	
Shearstown.....	Sept. 21-Nov. 22..	7		
Spaniards Bay.....	Oct. 5-11.....	1		
Templeman.....	Nov. 9-15.....	1		
Trout River.....	Sept. 21.....	2		
Upper Island Cove.....	Nov. 23-29.....	25		
Wabana.....	Aug. 31-Sept. 6..	18		Bell Island.
Wadhams.....	Sept. 7-18.....	7		
Philippine Islands:				
Manila.....	Apr. 8-June 29.....	864	616	Varioloid: Cases, 178; 1 death.
Do.....	June 30-Oct. 26..	138	97	Varioloid: Cases, 16; 1 death.
Portugal:				
Lisbon.....	Feb. 24-June 29..	97		
Do.....	June 30-Nov. 2..	457		
Russia:				
Archangel (government).....	June 1-30.....	90		
Lithuania.....	Mar. 3-May 4.....	88	3	
Siam:				
Bangkok.....	May 11-June 29..	9	8	
Do.....	July 14-Sept. 7..	3	4	
Siberia:				
Vladivostok.....	May 1-June 30.....	33	7	
Do.....	July 1-Aug. 31..	5	1	
Spain:				
Coruna.....	Apr. 28-June 30..	1	1	
Do.....	July 15-Aug. 11..		2	
Malaga.....	Dec. 1-31.....		29	
Do.....	Jan. 1-31.....		16	
Seville.....	Apr. 1-May 31.....		2	
Do.....	July 1-31.....		4	
Valencia.....	Aug. 11-31.....	5		
Straits Settlements:				
Penang.....	May 5-11.....	2		
Do.....	Aug. 25-Sept. 28..	22	8	
Sweden:				
Stockholm.....	June 9-15.....	10		
Tunisia:				
Tunis.....	July 20-Sept. 27..		7	
Union of South Africa:				
Cape Town.....	July 20-Aug. 2.....	1		From overseas, in a Nigerian soldier.
Johannesburg.....	Feb. 1-Apr. 30.....	37		1 case. At Liverpool, England.
On vessel.....				

## TYPHUS FEVER.

Argentina:				
Rosario.....	Apr. 1-May 31.....		2	
Austria-Hungary:				
Budapest.....	Feb. 25-June 23.....	66	4	Feb. 25-June 23, 1918: Cases, 419; deaths, 25. June 24-July 7, 1918: Cases, 15; deaths, 15.
Do.....	June 24-July 7.....	4	4	
Brazil:				
Rio de Janeiro.....	May 26-June 8.....	2		
Do.....	July 7-Sept. 21..	6		
Canada:				
Ontario—				
Toronto.....	Sept. 1-7.....	1		
China:				
Antung.....	May 20-June 9.....	4		
Do.....	July 8-Oct. 27.....	15	6	
Changsha.....	May 11-17.....	2	1	
Harbin.....	Jan. 1-June 16.....	37		On Chinese Eastern Ry.
Do.....	July 1-7.....	1		Do.
Manchuria Station.....	Jan. 15-June 30.....	41		
Do.....	July 1-14.....	3		
Pogranitchnaya.....	May 20-June 16.....	4		
Shanghai.....	May 5-11.....		1	
Do.....	July 14-20.....	1		
Tsingtao.....	Sept. 16-22.....	2		

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

## TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea):				
Seoul.....	June 1-30.....	17	4	
Do.....	July 1-Aug. 31.....	5	2	
Colombia:				
Barranquilla.....	Aug. 25-Nov. 2.....		4	
Egypt:				
Alexandria.....	Aug. 5-July 1.....	1,362	321	
Do.....	July 2-Oct. 14.....	477	138	
Germany.....				
Great Britain:				
Belfast.....	May 26-June 1.....	1		
Edinburgh.....	June 9-15.....		1	
Glasgow.....	May 19-June 29.....	13	5	
Do.....	July 21-Aug. 3.....	3		
Queenstown.....	Oct. 13-19.....	1		
Greece:				
Athens.....	Apr. 14-June 30.....	2	5	
Janina.....	Aug. 29.....	15		And in vicinity.
Saloniki.....	Apr. 28-June 29.....		36	
Do.....	June 30-Sept. 28.....		93	
Italy:				
Corato.....	May 6-June 2.....	4		Province of Bari.
Do.....	Aug. 18-24.....	2		
Moneta.....	May 6-June 9.....	25		Do.
Naples.....	Apr. 20-May 5.....	1		
Japan:				
Kobe.....	July 7-Aug. 3.....	10	5	
Nagasaki.....	May 27-June 23.....	1	1	
Do.....	July 3-Nov. 3.....	32	7	
Tokyo.....	June 24-July 7.....	1		
Java:				
East Java:				
Surabaya.....	Feb. 12-Apr. 8.....	22	6	Feb. 12-Apr. 8, 1918: Cases, 29; deaths, 8.
Mid-Java:				
Semarang.....	Feb. 21-May 22.....	10	2	Feb. 14-May 22, 1918: Cases, 32; deaths, 4.
West Java:				
Batavia.....	Feb. 28-June 6.....	61	15	Feb. 28-June 6, 1918: Cases, 89; deaths, 18.
Mesopotamia:				
Bagdad.....	Mar. 29-June 7.....	101		
Do.....	June 30-July 12.....	5		
Mexico:				
Aguascalientes.....	July 8-14.....		1	
Chihuahua State—Parral.....	July 10.....			Epidemic: Reported present from about June 13, 1918.
Guadalajara.....	June 1-30.....	5	2	
Do.....	July 1-Oct. 31.....	10	4	
Mexico City.....	May 19-June 22.....	186		
Do.....	June 30-Sept. 21.....	406		
Portugal:				
Lisbon.....	Feb. 24-May 25.....	5		
Russia.....				
Archangel.....	Aug. 1-15.....	4		
Lithuania.....				Mar. 3-May 4, 1918: Cases, 2,514; deaths, 100. June 23-Aug. 31, 1918: Cases, 1,280; deaths, 49.
Poland.....				Mar. 10-Sept. 14, 1918: Cases, 14,873; deaths, 1,379.
Lodz.....	Mar. 10-Sept. 14.....	793	139	
Warsaw.....	do.....	4,284	532	
Siberia:				
Irkutsk.....	Nov. 1-17.....	600		
Vladivostok.....	May 1-June 15.....	16	2	
Do.....	Aug. 1-31.....	5		
Spain:				
Cadiz.....	do.....		1	
Almeria.....	Apr. 1-30.....	1		
Sweden:				
Stockholm.....	Aug. 11-17.....	1		
Tunisia:				
Tunis.....	May 18-June 28.....	10	3	
Do.....	June 29-Nov. 8.....	5	5	

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

Reports Received from June 29 to Dec. 27, 1918—Continued.

### TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa: Cape of Good Hope, State.....				Sept. 10, 1914—Apr. 21, 1918: Cases, 4,587 (European, 34); deaths, 939 (European, 25), June 2-15, 1918: Present in interior towns among natives.
Do.....				July 8—Aug. 3, 1918: Present in interior towns, Port Elizabeth district.
Port Elizabeth.....	Aug. 11-17.....	1		Present in district among natives, Aug. 11—Sept. 24, 1918.
Natal.....				Dec. 1, 1917—Apr. 21, 1918: Cases, 50; deaths, 11.

### YELLOW FEVER.

Brazil:				
Bahia.....	Apr. 27—June 29....	27	9	
Do.....	June 30—July 27....	6	2	
Pernambuco.....	June 1-15.....		1	
Do.....	Aug. 1-15.....		1	Present, Oct. 17.
Ecuador:				
Guayaquil.....	Apr. 1—June 30....	74	39	
Do.....	July 1—Oct. 31....	163	88	And vicinity. Feb. 16-28, 1918: Cases, 2.
Naranjal.....	Apr. 1—June 30....	2	1	
Do.....	Aug. 1-31.....	1	1	
Punta de Piedra.....	do.....	1		
Vinces.....	Aug. 1—Sept. 30....	6	2	
Guatemala:				
Escuintla.....	Nov. 3.....	5		To Nov. 1, 1918: 40 cases reported.
San Jose.....	Sept. 27.....		14	Oct. 2, 1918, present.
Do.....	Sept. 29—Oct. 5....	3	1	Nov. 4, 1918: 1 case present.