

# PUBLIC HEALTH REPORTS

VOL. 33

SEPTEMBER 14, 1923

No. 37

## APPLICATION OF PARTIAL CORRELATION TO A HEALTH PROBLEM.

By FRANK M. PHILLIPS, Assistant Statistician, Office of Industrial Hygiene and Sanitation, United States Public Health Service, assisted by FAYE HOLLIS ROBERTS, Statistical Clerk, Statistical Office, United States Public Health Service.

Frequently the health officer desires to use some method of eliminating the effect of one or more factors that help to produce a result. He may desire the net effect of a particular cause. The purpose of this article is to show those not well skilled in statistical processes

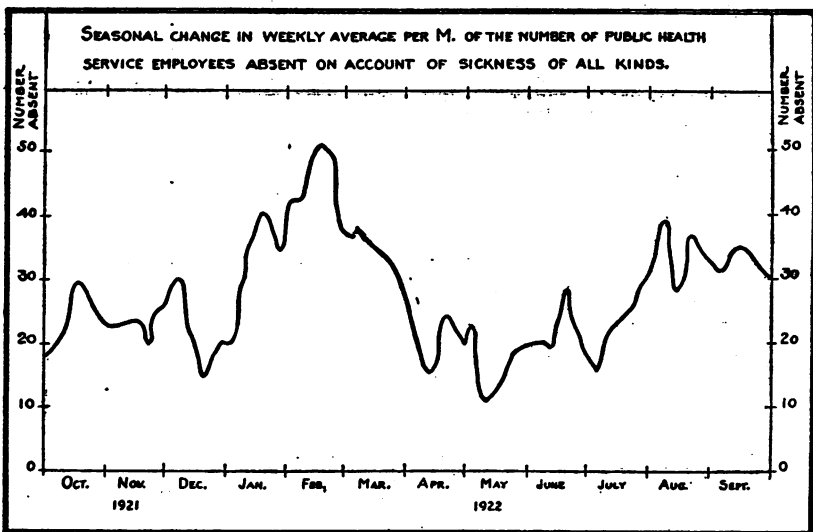


FIG. 1.

how the method of partial correlations may be used in holding constant a factor or set of factors so that net effects may be obtained.

The method of partial correlations is applied here to loss of time, on account of sickness, among civil-service employees of the United States Public Health Service.

It is observed that there is more absence on account of sickness during certain winter months than during certain summer months. Figure 1 shows the seasonal changes in absence by weekly averages per thousand employees. No attempt is made to smooth the curve, other than the taking of a weekly average.

The curve shows a great amount of loss of time during February and other months of the winter season, and a less amount during

April, May, and June. Questions arise as to seasonal causes of these differences. What effect have temperature and temperature changes up to and including the day of the absence? What effect has humidity? Do velocity and direction of wind affect the number of absences on account of sickness? Need we account for rainfall and amount of snow? What has the percentage of sunshine to do with our problem? Evidently, to answer all questions regarding these and other elements entering into a seasonal discussion is next to impossible. There is apparently no need to consider climatic conditions after the absence occurs. We might better consider the conditions of the previous day, or of the previous night. After careful consideration the following items were selected in this illustration as possible causes worthy of study: mean temperature of the day upon which absence on account of sickness occurred; relative humidity at 8 a. m. on the day of such absence; relative humidity at noon on the previous day; amount of rainfall on the day of absence; and percentage of possible sunshine on the day of absence.

Data were gathered concerning these factors from "Form No. 1030 Met'l.," issued by the Weather Bureau of the United States Department of Agriculture. An accurate record was kept of absence on account of sickness among employees, and the period covered in this study is from October 1, 1921, to September 30, 1922, inclusive, a total of 305 working days.

The number of employees during a greater part of this time was about 700, although it was less during the last four months. However, all absence is based upon 1,000 employees for the full time. No attempt is made to analyze the absence records by age, sex, or type of sickness. All employees worked in the same building under quite similar conditions of lighting, heating, and ventilation.

Certain chronic cases, operations, and sickness of long standing were eliminated where it seemed likely that the climatic factors selected would have little, if any, effect. Due account was taken of the Saturday half-holiday during the season in which that was in force. As far as possible the effect of annual leave and holidays was eliminated. A summation was made of the number of absences by the day of the week during the entire year to find whether absence was greater on certain week days. There were no differences, the same amount of loss of time being maintained for each day of the week. An attempt was made to find the effect of pay day upon absence caused by sickness. A study was made in five consecutive day groups, with pay day as the middle day of the series. About 28 per cent more persons were absent on the other days than on pay day. Taking pay day as a basis, with an index value of 100, absence on the previous day was 121, on the next day previous 125, on the day following pay day 129, and on the day following that 139. There is

no way to ascertain whether this slump in absence on pay day is due to the fact that sick people need the pay check and therefore return to work even if sick, or whether the excess absence on these other days is caused by persons who are "playing" sick. However, this difference is taken into account, and an attempt is made to evaluate it by raising the absence on pay day to the level of the other days.

We have before us, then, six items, as follows:

1. Number of persons absent on account of sickness;
2. Mean temperature of the day upon which the absence occurred;
3. Relative humidity at 8 a. m. on the day of the absence;
4. Relative humidity at noon on the previous day;
5. Inches of rainfall on the day of the absence; and
6. Per cent of possible sunshine on the day of absence.

The first of these will be studied as the effect, the others as possible causes. An attempt will be made to show, by processes of correlations, what effect each climatic condition had when all other factors were in operation. Then, processes of partial correlations will be applied to discover, if possible, the net effect of each factor when other factors are held constant and their effects eliminated.

The best method for obtaining the first set of correlation coefficients is the application of the following formula:

$$r = \frac{\Sigma SR - nac}{\sqrt{(\Sigma S^2 - na^2)(\Sigma R^2 - nc^2)}}, \text{ where}$$

$r$  = the correlation coefficient;

$\Sigma$  = summation;

$S$  = subject measures;

$R$  = relative measures;

$a$  = average of subject;

$c$  = average of relative;

$n$  = number of paired measures.

This is a short formula derived from the Pearson formula,

$$r = \frac{\Sigma xy}{\sqrt{(\Sigma x^2)(\Sigma y^2)}}^1$$

By this formula perfect direct correlation is denoted by 1.000, no correlation by 0.000, perfect inverse correlation by -1.000. All correlations are less than unity unless perfect correlation exists. To be significant, a correlation should be as large as 0.500 when  $n$  is small. If  $n$  is large, say 100 or more,  $r$  may be significant when less than 0.500; but it should be at least six times its probable error. The formula for probable error is:

$$\text{P. E.} = \frac{0.6745 (1 - r^2)}{\sqrt{n}}$$

<sup>1</sup> See Monthly Weather Review for March, 1922, pp. 135-136.

When  $n$  is as large as it is in this problem, 305, it is best to tabulate the data into correlation tables. This is a sort of double-entry table showing both measures for each individual item. The number in each rectangle or "cell," in the table, indicates the number that are alike in the two measures shown in the corresponding column heading, and likewise in the appropriate line heading.

Table I shows such a correlation table for number of persons absent on account of sickness and for different mean temperatures.

TABLE I.—*Number of persons absent on account of sickness, according to mean temperature.*

Mean temperature.	Number of persons absent.										R	R <sup>2</sup>
	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	Total.		
80-89.....	5	3	3	2	.....	1	.....	.....	.....	14	42	126
70-79.....	11	15	20	18	6	3	2	.....	.....	75	150	300
60-69.....	6	6	21	13	9	5	.....	.....	.....	80	60	60
50-59.....	1	7	12	14	4	2	2	.....	.....	42	0	0
40-49.....	1	15	10	9	4	9	4	.....	1	53	-53	53
30-39.....	2	5	3	14	6	6	5	2	1	44	-88	176
20-29.....	.....	1	3	.....	6	4	.....	1	.....	15	-45	135
10-19.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2	-8	32
Total.....	26	52	72	70	35	30	15	3	2	305	=58	=832
S.....	-52	-52	0	70	70	90	60	15	12	-213	.....	.....
S <sup>2</sup> .....	104	52	0	70	140	270	240	75	72	=1,023	.....	.....

$$a = \frac{213}{305} = 0.6984. \quad na^2 = 148.759. \quad \Sigma S^2 - na^2 = 874.241.$$

$$c = \frac{58}{305} = 0.1901. \quad nc^2 = 10.0253. \quad \Sigma R^2 - nc^2 = 871.9742$$

In this table the number of persons absent is taken as the subject, ( $S$ ), and mean temperature is taken as the relative ( $R$ ). The number 10, near the center of the table, means that on 10 different working days during the year there were from 11 to 15 persons absent when the mean temperature for the day was between 40° F. and 49° F. The total number of working days is 305.

In solving a correlation in a table of this kind it is not necessary to use the measures shown in the vertical and in the horizontal scales. Arbitrary unit values may be used to shorten the work materially.



The small figures inserted in the third column from the left represent the new  $R$  values, and those between the third and fourth lines from the top represent new  $S$  values. By starting with zero, (0), a great many multiplications may be avoided.

The  $a$  value in the formula is obtained by multiplying the column totals by these new  $S$  values, adding, and dividing by  $n$ , or 305. The  $\Sigma S^2$  value is obtained by multiplying the column totals by the  $S^2$  values and adding. Likewise the  $c$  value, and the  $\Sigma R^2$  value are obtained from the line totals, and the new  $R$  values. The frequency as shown in the subtotals of the various lines and columns is represented by  $f$ .

The  $SR$  values are obtained by multiplying the "cell" frequency by the line value ( $S$ ) and then by the column value ( $R$ ). Thus,  $5 \times (-2) \times (+3)$  gives the first,  $-30$ ;  $3 \times (-1) \times (+3) = -9$ ;  $3 \times (0) \times (3) = 0$ ; and so on to the last  $2 \times (+4) \times (-4) = -32$ . The order of multiplication is unimportant, but it may be an advantage to get + products together, and then - products. If the signs do not confuse the worker, it is better to start at the top left-hand corner and multiply across the top line, then through the second, and on through to the last line, finishing at the lower right-hand corner. Remember that the 0 line and the 0 column give 0 values and should be omitted entirely in  $S^2$ ,  $R^2$ , and  $SR$  values.

$$SR = -30 - 9 + 6 + 9 - 44 - 30 + 36 + 24 + 18 + 16 - 12 - 6 + 13 + 18 + 15 + 2 + 15 - 9 - 8 - 27 - 16 - 6 + 8 + 10 - 28 - 24 - 36 - 40 - 20 - 12 + 3 - 36 - 36 - 15 - 32 = -476 + 193 = -283$$

$$nac = 40.4993. \quad \Sigma SR - nac = -283 - 40.4993 = -323.4993.$$

$$r = \frac{-323.4993}{\sqrt{(874.241)(871.9742)}} = \frac{-323.4993}{873.106} = -0.3705$$

The standard deviation of  $S$  is,

$$\sigma_s = 5 \sqrt{\frac{874.241}{305}} = 5 \times 1.693 = 8.465 \text{ persons;}$$

and of  $R$ ,

$$\sigma_R = 10 \sqrt{\frac{871.942}{305}} = 10 \times 1.690 = 16.9 \text{ degrees F.}$$

$$P. E. = \frac{0.6745 (0.8627)}{\sqrt{305}} = 0.0333$$

then,

$$r = -0.3705 \pm 0.0333.$$

This correlation  $-0.3705$  is inverse; it is not high; but as it is more than 10 times the P. E. it may be considered as significant. It should not be considered as final, however, because there are

many other factors acting during the year—humidity, rainfall, per cent of sunshine, and many others not climatic, some of which will be eliminated or evaluated by processes of partial correlations. For the present we can only say that when the mean temperature is low, there is a tendency for absence on account of sickness to increase, and when the mean temperature is high, fewer persons are absent on account of sickness.

If we wish to use the mean (average) of these two sets of data, we multiply the means found by the size of the class interval and add to the number for which the zero in the arbitrary scale is substituted.

The average of these mean temperatures is—

$$0.1901 \times 10 + 55 = 55 + 1.910 = 56.91^\circ \text{F.}$$

The average number of persons absent is—

$$0.6984 \times 5 + 13 = 13 + 3.49 = 16.49 \text{ persons.}$$

The first set of correlations are called zero order correlations. No factors have been eliminated. These have been worked out for each pair of factors enumerated, making 15 coefficients. These correlation coefficients are given in Table II.<sup>1</sup>

TABLE II.—Zero order coefficients for the six items.

Factors.		(1) Absence.	(2) Mean tempera- ture.	(3) R. H. 8 a. m.	(4) R. H. previous day.	(5) Rainfall.	(6) Per cent of sun- shine.
Correlations.	(1) Absence.....		-0.3705	0.0671	0.0610	0.1294	-0.1603
	(2) Mean temperature.....			0.3012	0.0189	0.1053	0.2473
	(3) R. H. 8 a. m.....				0.2476	0.3538	-0.3495
	(4) R.H. previous day.....					0.0639	-0.0128
	(5) Rainfall.....						-0.4634
	(6) Per cent sunshine.....						
Mean.....		16.49	56.87	74.67	56.64	0.140	54.25
Standard deviation.....		8.47	16.86	16.07	18.18	0.297	34.34

The probable errors are not included in the table. Most of these coefficients are small. The only significant correlation having to do with loss of time is that between absence and mean temperature,  $r = -0.3705 \pm 0.0333$ . Even here the result may not be a clean cut correlation between these two items. All the other factors were

<sup>1</sup> When sickness from all causes is included, the following correlations result:

Between number absent and—	
Mean temperature.....	-0.258
Relative humidity, 8 a. m.....	0.176
Relative humidity, previous day.....	0.145
Rainfall.....	0.066
Per cent sunshine.....	-0.141

The average number absent on account of sickness from all causes is 21.7, or a loss of 6.6 working days per person per year.

possibly having an influence upon absence. It may be that the correlation is only apparent. We wish to know what the net effect of temperature is upon absence on account of sickness. What effect has temperature alone, when other influences are excluded? In one way we might get this net effect by choosing data in which all other factors have a constant value. We might, for example, choose only the days when the relative humidity at 8 a. m. was 70 per cent, when it had been 58 per cent at noon the previous day, when there was no rain, and when there was 90 per cent of possible sunshine; but it would, no doubt, take years to find a sufficient number of days of this particular type so that a correlation could be worked out. We would have the same difficulty with each other factor, as well as the problem of deciding what conditions we might best choose.

To overcome these difficulties, we have processes of partial correlation. We assume that each cause has a partial effect; that is, each factor has its part to play in producing a result. We wish to know what each factor does when other factors are not working, or when they are working at a constant rate through the series of observations.

To apply the methods, correlations must be worked out between the factors themselves, in pairs. This makes it necessary that a logical relation should exist between each possible pair of factors; otherwise the exclusion of factors not related leaves us with no clear-cut relations between those not excluded.

The general formula is

$$r_{12.34\dots n} = \frac{r_{12.34\dots(n-1)} - (r_{1n.34\dots(n-1)})(r_{2n.34\dots(n-1)})}{\sqrt{(1 - r_{1n.34\dots(n-1)}^2)(1 - r_{2n.34\dots(n-1)}^2)}}$$

The subscripts refer to the paired items. In Table II the items were numbered as follows: 1 = absence; 2 = mean temperature; 3 = R. H. 8 a. m.; 4 = R. H. previous day; 5 = rainfall; and 6 = percentage of sunshine. The correlation between absence and mean temperature is represented by  $r_{12}$ .  $r_{12.3}$  means correlation between absence and mean temperature with R. H. 8 a. m. held constant, or not having an effect; and  $r_{12.3456}$  means the net correlation between absence and temperature with the other four factors held constant.

The only net correlations desired are then,  $r_{12.3456}$ ;  $r_{13.2456}$ ;  $r_{14.2356}$ ;  $r_{15.2346}$ ; and  $r_{16.2345}$ . Evidently there is no significance to a correlation like  $r_{34.256}$  in this problem, unless it be of value in reaching some of the correlations desired. We are most interested in discovering what effect each of these climatic conditions has upon absence on account of sickness, to the exclusion of all other factors; that is, what is the net result.

Our first problem, then, is to obtain a value for

$$r_{12.3456} = \frac{r_{12.345} - (r_{16.345}) (r_{26.345})}{\sqrt{(1 - r_{16.345}^2) (1 - r_{26.345}^2)}}$$

Were we to start with the coefficients given in Table II it would be possible to solve 240 values, only a limited number of which are needed. The better plan is to start with the final formula and work back to the zero order coefficients. In the fourth order formula there are three of the third order which we must solve. They are as follows:

$$\begin{aligned} r_{12.345} &= \frac{r_{12.34} - (r_{15.34}) (r_{25.34})}{\sqrt{(1 - r_{15.34}^2) (1 - r_{25.34}^2)}} & r_{26.345} &= \frac{r_{26.34} - (r_{25.34}) (r_{56.34})}{\sqrt{(1 - r_{25.34}^2) (1 - r_{56.34}^2)}} \\ r_{16.345} &= \frac{r_{16.34} - (r_{15.34}) (r_{56.34})}{\sqrt{(1 - r_{15.34}^2) (1 - r_{56.34}^2)}} \end{aligned}$$

In solving these third order coefficients we find six of the second order needed, as follows:

$$\begin{aligned} r_{12.34} &= \frac{r_{12.3} - (r_{14.3}) (r_{24.3})}{\sqrt{(1 - r_{14.3}^2) (1 - r_{24.3}^2)}} & r_{16.34} &= \frac{r_{16.3} - (r_{14.3}) (r_{46.3})}{\sqrt{(1 - r_{14.3}^2) (1 - r_{46.3}^2)}} \\ r_{15.34} &= \frac{r_{15.3} - (r_{14.3}) (r_{45.3})}{\sqrt{(1 - r_{14.3}^2) (1 - r_{45.3}^2)}} & r_{26.34} &= \frac{r_{26.3} - (r_{24.3}) (r_{46.3})}{\sqrt{(1 - r_{24.3}^2) (1 - r_{46.3}^2)}} \\ r_{25.34} &= \frac{r_{25.3} - (r_{24.3}) (r_{45.3})}{\sqrt{(1 - r_{24.3}^2) (1 - r_{45.3}^2)}} & r_{56.34} &= \frac{r_{56.3} - (r_{45.3}) (r_{46.3})}{\sqrt{(1 - r_{45.3}^2) (1 - r_{46.3}^2)}} \end{aligned}$$

In getting these second order coefficients we find need of 10 first order coefficients as follows:

$$\begin{aligned} r_{12.3} &= \frac{r_{12} - (r_{13}) (r_{23})}{\sqrt{(1 - r_{13}^2) (1 - r_{23}^2)}} & r_{25.3} &= \frac{r_{25} - (r_{23}) (r_{35})}{\sqrt{(1 - r_{23}^2) (1 - r_{35}^2)}} \\ r_{14.3} &= \frac{r_{14} - (r_{13}) (r_{34})}{\sqrt{(1 - r_{13}^2) (1 - r_{34}^2)}} & r_{16.3} &= \frac{r_{16} - (r_{13}) (r_{36})}{\sqrt{(1 - r_{13}^2) (1 - r_{36}^2)}} \\ r_{24.3} &= \frac{r_{24} - (r_{23}) (r_{34})}{\sqrt{(1 - r_{23}^2) (1 - r_{34}^2)}} & r_{26.3} &= \frac{r_{26} - (r_{23}) (r_{36})}{\sqrt{(1 - r_{23}^2) (1 - r_{36}^2)}} \\ r_{15.3} &= \frac{r_{15} - (r_{13}) (r_{35})}{\sqrt{(1 - r_{13}^2) (1 - r_{35}^2)}} & r_{56.3} &= \frac{r_{56} - (r_{35}) (r_{36})}{\sqrt{(1 - r_{35}^2) (1 - r_{36}^2)}} \\ r_{45.3} &= \frac{r_{45} - (r_{34}) (r_{35})}{\sqrt{(1 - r_{34}^2) (1 - r_{35}^2)}} & r_{46.3} &= \frac{r_{46} - (r_{34}) (r_{36})}{\sqrt{(1 - r_{34}^2) (1 - r_{36}^2)}} \end{aligned}$$

This brings us back to the 15 zero order coefficients already solved and given in Table II. We have, then, to solve 10 of the first order, 6 of the second order, 3 of the third, and 1 of the fourth, or 20 in all for each net result.

The process is the same in solving the other net correlations. There will be some overlapping of the correlations necessary, so that the worker may save time by keeping before him all correlations solved. It is necessary to solve only 70 correlations. There are other ways of arriving at the desired results than the one indicated. It is possible to eliminate factor 4 first, instead of 3, or 6, then 5, then 4; and finally 3. All should lead to the same net results.

The next procedure is to solve the first order correlations.

$$r_{12.3} = \frac{r_{12} - (r_{13})(r_{23})}{\sqrt{(1-r_{13}^2)(1-r_{23}^2)}} = \frac{-0.3705 - (0.0571)(0.3012)}{\sqrt{(1-0.0571^2)(1-0.3012^2)}}$$

$$r_{12.3} = \frac{-0.3705 - 0.0172}{\sqrt{(0.9984)(0.9535)}} = \frac{-0.3877}{0.9529} = -0.407$$

In solving for  $\sqrt{1-r^2}$  it should be recalled that  $\sin x = \sqrt{1-\cos^2 x}$ . A table of natural sines and cosines, then, will be of great help in solving these formulas. Look up the angle whose sine is 0.0571 and use its cosine, 0.9984. Multiply 0.9874 by 0.9535, which is the cosine of an angle whose sine is 0.3012. A table of  $\sqrt{1-r^2}$  values would be simpler, but a table of sines and cosines will do.

The remaining first order correlations are solved in this manner. The next step is to solve the six second-order correlations. Having solved these we next solve the three third-order correlations, and use these to solve the fourth-order correlation, which is net between absence and mean temperature.  $r_{12.3456}$  is found to be  $-0.3988$ . This is not much different from the zero-order correlation we started with, but we have the satisfaction of looking upon it as being a final correlation between these two items with the influence of the other four factors eliminated. Correlations of the various orders which involve absence are as follows:

$r_{12} = -0.3705$	$r_{13} = 0.0571$	$r_{14} = 0.0610$
$r_{12.3} = -0.4075$	$r_{13.2} = 0.1906$	$r_{14.2} = 0.0732$
$r_{12.34} = -0.4058$	$r_{13.24} = 0.1783$	$r_{14.23} = 0.0261$
$r_{12.345} = -0.4084$	$r_{13.245} = 0.1298$	$r_{14.235} = 0.0270$
$r_{12.3456} = -0.3988$	$r_{13.2456} = 0.1472$	$r_{14.2356} = 0.0177$

$r_{15} = 0.1294$	$r_{16} = -0.1603$
$r_{15.2} = 0.1823$	$r_{16.2} = -0.0762$
$r_{15.23} = 0.1274$	$r_{16.23} = 0.0130$
$r_{15.234} = 0.1275$	$r_{16.234} = 0.0101$
$r_{15.2346} = 0.1453$	$r_{16.2345} = 0.0713$

The net correlations may be written thus:

Correlation between—	Held constant—	Value.
Absence and temp.....	R. H. 8 a. m., R. H. previous day, rainfall, per cent sunshine.	$-0.3988 \pm 0.0334$
Absence and R. H. 8 a. m.....	Temp., R. H. previous day, rainfall, per cent sunshine.	$0.1472 \pm 0.0380$
Absence and R. H. previous day....	Temp., R. H. 8 a. m., rainfall, per cent sunshine.	$0.0177 \pm 0.0389$
Absence and rainfall.....	Temp., R. H. 8 a. m., R. H. previous day, per cent sunshine.	$0.1453 \pm 0.0381$
Absence and per cent sunshine.....	Temp., R. H. 8 a. m., R. H. previous day, rainfall.	$0.0713 \pm 0.0387$

The only significant correlation, net as far as the other factors under consideration are concerned, is that between absence on account of sickness and mean temperature of the day upon which the absence occurred. It is considered reasonably high, since it is more than six times its probable error.

$$r_{12.3456} = -0.399 \pm 0.033.$$

It is inverse, which bears out our observation that there is more absence during the colder months. When the temperature is low, absence on account of sickness tends to be high; when the temperature is high, such absence tends to be low. Apparently the net correlation between absence and each of the other factors is negligible, at least it is not significant.

The total correlation (also called multiple correlation, and maximum correlation) is computed from the expression,

$$\begin{aligned}
 R_{1.23456} &= \sqrt{1 - (1 - r_{12}^2) (1 - r_{13.2}^2) (1 - r_{14.23}^2) (1 - r_{15.234}^2) (1 - r_{16.2345}^2)} \\
 &= \sqrt{1 - (1 - 0.3705^2)(1 - 0.1906^2)(1 - 0.0261^2) (1 - 0.1275^2) (1 - 0.0713^2)} \\
 &= \sqrt{1 - (0.86273) (0.96367) (0.99932) (0.98374) (0.99472)} \\
 &= \sqrt{0.18681259} = 0.4547
 \end{aligned}$$

This shows the combined effect of all the factors enumerated. It is a correlation between absence on account of sickness and a combination of all five factors working together. It is always taken as positive. This correlation, 0.4547, is probably as high as may be expected. Some statisticians would interpret it to mean that the chance is less than one out of two, that these particular climatic conditions had anything to do with any particular case of absence noted during the year.

Regression equations in terms of deviations from the means are obtained by use of formulas similar to the following:

$$x_1 = b_{12.3456}x_2 - b_{13.2456}x_3 - b_{14.2356}x_4 - b_{15.2346}x_5 - b_{16.2345}x_6$$

When

$$b_{12.3456} = r_{12.3456} \left( \frac{\sigma_{1.3456}}{\sigma_{2.3456}} \right)$$

and

$$\sigma_{1.3456} = \sqrt{\sigma_1^2 (1 - r_{13}^2) (1 - r_{14.3}^2) (1 - r_{15.34}^2) (1 - r_{16.345}^2)}$$

and

$$\sigma_{2.3456} = \sqrt{\sigma_2^2 (1 - r_{23}^2) (1 - r_{24.3}^2) (1 - r_{25.34}^2) (1 - r_{26.345}^2)}$$

Formulas for the other  $b$  values are similar, the general formula being:

$$x_1 = b_{12.34 \dots n}x_2 + b_{13.24 \dots n}x_3 + \dots + b_{1n.23 \dots (n-1)}x_n$$

$$b_{12.34 \dots n} = r_{12.34 \dots n} \left( \frac{\sigma_{1.34 \dots n}}{\sigma_{2.34 \dots n}} \right)$$

$$\sigma_{1.34 \dots n} = \sqrt{\sigma_1^2 (1 - r_{13}^2) (1 - r_{14.3}^2) \dots (1 - r_{1n.34 \dots (n-1)}^2)}$$

$$\sigma_{2.34 \dots n} = \sqrt{\sigma_2^2 (1 - r_{23}^2) (1 - r_{24.3}^2) \dots (1 - r_{2n.34 \dots (n-1)}^2)}$$

Solving the regression formula,

$$x_1 = -0.2297x_2 + 0.0874x_3 + 0.0077x_4 + 4.4340x_5 + 0.0207x_6$$

This may be transformed into an equation where  $X_1$ ,  $X_2$ , etc., represent actual measures instead of deviations by subtracting the means as follows:

$$\begin{aligned} X_1 - 16.49 &= -0.2297 (X_2 - 56.78) + 0.0874 (X_3 - 74.67) \\ &+ 0.0077 (X_4 - 56.64) + 4.4340 (X_5 - 0.140) + 0.0207 (X_6 - 54.25) \end{aligned}$$

Which gives

$$X_1 = 20.82 - 0.2297X_2 + 0.0874X_3 + 0.0077X_4 + 4.4340X_5 + 0.0207X_6$$

$X_1$  is now the actual number of persons absent,  $X_2$  the mean temperatures in degrees F.,  $X_3$  the relative humidity at 8 a. m.,  $X_4$  the relative humidity for noon previous day,  $X_5$  the rainfall in inches, and  $X_6$  the percent of sunshine.

An application of the formula would be to substitute actual values for  $X_2$ ,  $X_3$ ,  $X_4$ ,  $X_5$ , and  $X_6$ , and solve for  $X_1$ . This ought to determine approximately the number of persons absent on account of

sickness when the conditions represented by the values substituted prevail.

Example:  $X_2=40$ ,  $X_3=80$ ,  $X_4=60$ ,  $X_5=0.2$ ,  $X_6=90$ .

When these values are substituted  $X_1=21$  persons.

Example:  $X_2=70$ ,  $X_3=50$ ,  $X_4=40$ ,  $X_5=0$ ,  $X_6=100$ .

In this case  $X_1=11.5$  persons. •

There were actually 27 persons absent on the day taken in the first exercise, and 8 on the second.

Some may express doubt as to the reliability of the processes of partial correlation in eliminating the effect of factors which it may be desirable to eliminate. The following demonstration is offered, therefore, to show just what the partial correlation formula does toward such eliminations when certain types of relations exist.

Let us take three sets of related measurements,  $S_1, S_2, S_3, \dots S_n$ ;  $R_1, R_2, R_3, \dots R_n$ ; and  $T_1, T_2, T_3, \dots T_n$ . Let  $T_1 = S_1 + R_1$ ,  $T_2 = S_2 + R_2$ , etc. Let  $a = \text{mean } S$ ,  $c = \text{mean } R$ , then  $a + c = \text{mean } T$ . The  $r$  values are as follows:

$$r_{SR} = \frac{\Sigma SR - nac}{\sqrt{(\Sigma S^2 - na^2)(\Sigma R^2 - nc^2)}}$$

$$r_{ST} = \frac{\Sigma ST - na(a+c)}{\sqrt{(\Sigma S^2 - na^2)(\Sigma T^2 - n(a+c)^2)}}$$

$$r_{RT} = \frac{\Sigma RT - n(a+c)c}{\sqrt{(\Sigma R^2 - nc^2)(\Sigma T^2 - n(a+c)^2)}}$$

Now,

$$\Sigma ST = \Sigma S(S+R) = \Sigma S^2 + \Sigma SR$$

$$\Sigma RT = \Sigma R(S+R) = \Sigma SR + \Sigma R^2$$

$$\Sigma T^2 = \Sigma (S+R)^2 = \Sigma S^2 + 2\Sigma SR + \Sigma R^2$$

If now we are able successfully to eliminate the effect of  $R$  from a correlation between  $S$  and  $T$ , we should get 1.000, or a perfect correlation; that is, the net correlation would be between  $S$  and  $T-R$ , or  $S$ , two identical series.

Starting with the established partial correlation formula, we have

$$r_{S.T.R} = \frac{r_{ST} - (r_{SR})(r_{TR})}{\sqrt{(1-r_{SR}^2)(1-r_{TR}^2)}}$$



Substituting and expanding,

$$r_{ST,R} = \frac{\Sigma S^2 + \Sigma SR - na^2 - nac}{\sqrt{(\Sigma S^2 - na^2)(\Sigma S^2 + \Sigma R^2 + 2\Sigma SR - na^2 - 2nac - nc^2)}} \dots$$

$$\sqrt{1 - \frac{(\Sigma SR - nac)^2}{(\Sigma S^2 - na^2)(\Sigma R^2 - nc^2)}} - \left[ \frac{\Sigma SR - nac}{\sqrt{(\Sigma S^2 - na^2)(\Sigma R^2 - nc^2)}} \right] \left[ \frac{\Sigma SR + \Sigma R^2 - nac - nc^2}{\sqrt{(\Sigma S^2 + 2\Sigma SR + \Sigma R^2 - na^2 - 2nac - nc^2)}} \right]$$

$$\sqrt{1 - \frac{(\Sigma SR + \Sigma R^2 - nac - nc^2)^2}{(\Sigma R^2 - nc^2)(\Sigma S^2 + 2\Sigma SR + \Sigma R^2 - na^2 - 2nac - nc^2)}}$$

Now let  $\Sigma S^2 - na^2 = x$ ,  $\Sigma R^2 - nc^2 = y$ , and  $\Sigma SR - nac = z$ ; then

$$r_{ST,R} = \frac{x+z}{\sqrt{x}\sqrt{x+y+2z}} - \left( \frac{z}{\sqrt{x}\sqrt{y}} \right) \left( \frac{y+z}{\sqrt{y}\sqrt{x+y+2z}} \right) =$$

$$\frac{\sqrt{\left( \frac{xy-z^2}{xy} \right) \left( \frac{y(x+y+2z) - (y+z)^2}{y(x+y+2z)} \right)}}{\sqrt{\left( \frac{xy-z^2}{xy} \right) \left( \frac{xy-z^2}{xy} \right)}} = \frac{y(x+z) - z(y+z)}{\sqrt{x}\sqrt{y}\sqrt{x+y+2z}} = \frac{xy + yz - yz - z^2}{\sqrt{(xy-z^2)(xy-z^2)}} = \frac{xy - z^2}{xy - z^2} = 1.$$

It is seen from this demonstration that the method of partial correlation eliminates the effect of factors of the type used in the demonstration. The processes are, for the most part, arithmetical and simple. The scheme as illustrated shortens the work materially. The interpretation of the results requires greater study and ingenuity, but the methods employed are usable by persons not especially skilled in advanced statistical procedures.

## A SUGAR-FREE MEDIUM FOR FERMENTATION STUDIES.

By ELLA M. A. ENLows, Associate Bacteriologist, Hygienic Laboratory, United States Public Health Service.

The low percentage agar medium of Hitchens<sup>1</sup> is so generally useful in bacteriological work that an effort was made shortly after the appearance of Hitchens's paper to secure a modification adapted for fermentation studies. For rough indication of acid or gas formation, the addition to this medium of the fermentable substance and of a suitable indicator suffices; but for accurate determinations a sugar-free base is necessary. During the past four years, in connection with studies on acid formation by *Diplococcus pneumoniae*, it has been found that beef and horse meat infusion broths vary greatly

<sup>1</sup> Hitchens, A. Parker: Advantages of culture mediums containing small percentages of agar. J. Inf. Dis., vol. 29, 1921, pp. 390-407.

in their carbohydrate content. Some of them contain only traces; others show amounts sufficient to cause a rapid increase in the hydrogen ion concentration when inoculated with the organism mentioned. Different lots of broth were used as a base for the Hitchens medium, to which dibromo-thymol-sulphonphthalein was added as an indicator. *Bacterium typhosum*, *Bacterium coli*, and *Bacterium dysenteriae* were then inoculated into these different lots of media. Three out of five lots of broth used for this experiment showed sufficient fermentable substance present to cause increased hydrogen ion concentration as indicated by color change in the medium (blue-green to yellow).

Effort was then directed toward obtaining a sugar-free base to which a low percentage of agar might be added, together with the indicator mentioned.

Water, peptone, and dipotassium hydrogen phosphate were tested in varied amounts. The following proportions gave good results with all of the organisms tested:

Water (either tap or distilled) .....	1,800 c. c.
Peptone .....	10 grams.
K <sub>2</sub> HPO <sub>4</sub> .....	17 grams.
Agar .....	2 grams.

These substances were heated together in the Arnold sterilizer for 40 minutes, or autoclaved for 10 minutes at 15 pounds, filtered through paper while hot, and diluted with hot distilled water to 2,000 c. c. The hydrogen ion concentration was then determined and adjustment made with sodium hydroxide. The sugars, alcohols, glucosides, etc., were added in 0.5 per cent amounts, followed by the indicator, after which the medium was tubed and sterilized by the fractional method (30 minutes in Arnold sterilizer on three successive days). The brom thymol blue was added in amount sufficient to give a distinct green-blue or deep-blue color (depending upon the pH desired). If the indicator is prepared as given below, 3 drops in each 500 c. c. make a medium with very positive color change due to increased hydrogen ion concentration. If the medium is pH 7.6 initially, no change in alkalinity will be indicated, since this is the maximum range of this indicator on the alkaline side. However, the organisms listed below grew very well at pH 7.2 and pH 7.4, which allows for some increase in alkalinity. If the final hydrogen ion concentration is desired and it is seen by the color of the tube (yellow) that the range of this indicator on the acid side has been reached, the tube may be divided into equal parts, using one portion as a color and turbidity screen, and adding methyl red or some other suitable indicator to the other portion for the determination.

The indicator may be prepared as follows:

Brom thymol blue.....	0.1 gram.
N/20 NaOH.....	3.2 c. c.

Grind in agate mortar. When solution is complete, add 3 c. c. of distilled water.

Due to the fact that a great number of the pathogenic and allied organisms grow best near pH 7.2 or 7.4, it was found that the necessity for adjustment of the medium could be eliminated by the addition of the proper amounts of disodium hydrogen phosphate and monopotassium hydrogen phosphate. The following formula will produce a medium varying from pH 7.2 to 7.4, depending upon the nature of the ingredients used:

Tap (or distilled) water.....	1,800.0 c. c.
Peptone.....	10.0 grams.
Na <sub>2</sub> HPO <sub>4</sub> .....	14.5 grams.
KH <sub>2</sub> PO <sub>4</sub> .....	1.4 grams.
Agar.....	2.0 grams.

The salts and peptone tend to stabilize the medium, but the buffer strength is not sufficient to prevent appreciable change in the hydrogen ion concentration resulting from attack of the fermentable substance. If a higher or lower pH value is desired, the salts can be varied according to Sørensen's table.<sup>2</sup>

As control on the growth of the organism in this medium without the addition of fermentable substances, it is necessary to prepare one lot of tubes without such substances; that is, using merely the water, peptone, potassium and sodium salts, agar, and indicator. In case attack is made upon the peptone which might be considered as obscuring the results of the carbohydrate attack, this will be indicated in these tubes, which we have termed "nonfermentable controls."

The following organisms have been grown on this medium with characteristic results:

*Bacterium dysenterix* (all types) *Bacterium typhosum*, *Bacterium paratyphosum* Alpha and Beta, *Bacterium coli*, *Bacterium typhimurium*; *Brucella melitensis*; *Streptococcus hemolyticus*, *Streptococcus viridans*, *Diplococcus pneumoniae*; *Corynebacterium diphtherix*; *Neisseria gonorrhoea*, *Neisseria catarrhalis*, *Neisseria intracellularis meningitidis*; *Pasteurella pestis*; *Proteus vulgaris*; *Vibrio cholerae asiaticae*; *Clostridium tetani*.

The fermentable substances tested were: Erythrose, arabinose, xylose, dextrose, galactose, mannose, levulose, lactose, maltose,

<sup>2</sup> This table may be consulted in "The determination of hydrogen ions," by William Mansfield Clark, 2d ed., 1922, p. 114.

saccharose, raffinose; salicin, dextrin, glycogen, starch, inulin, glycerol, mannitol, dulcitol, adonitol.

In case of the aerobes, the inoculations were made with a platinum loop, floating off the inoculum on the surface of the medium. The anaerobes were transferred by placing the inoculum as near the bottom of the tube as possible. Rapidly growing organisms (inoculation having been made from young cultures) show sufficient acid and gas production to be read within 1 to 4 hours after transplanting.

The points in favor of this medium are: Ease of preparation and economy; its known nonfermentable base; clarity; certainty as to growth, which occurs in most cases in featherylike masses as in the Hitchens medium; its ability to support growth of a large number of microorganisms either with or without the addition of carbohydrate or other fermentable substance.

It is believed, from the experiments with this medium, that by its use many of the contradictory results as to acid formation obtained by different investigators will be explained. That is, in many cases, no doubt, broths not actually sugar-free were used, impure sugars were employed, or the sugars were broken down by the heat applied under pressure, or for too long a time.

#### SUMMARY.

A medium has been devised containing a sugar-free base, to which fermentable substances and the indicator brom thymol blue may be added, which serves for fermentation studies on a large number of bacterial species. The medium is based upon the low-percentage agar medium of Hitchens, substituting a synthetic, sugar-free base for the beef broth used by him.

The medium is easily prepared, and very economical, making its use advantageous for testing the purity of large numbers of stock cultures or for classroom demonstration. Actual growth of the organisms under test is readily observed because of the clarity of the medium; and the medium will support the growth of a large number of microorganisms either with or without the addition of carbohydrate or other fermentable substance. Anaerobes as well as aerobes may be studied in this medium. Variations of the salt content might prove advantageous in case of certain species.

# DEATHS DURING WEEK ENDED SEPTEMBER 1, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended September 1, 1923, and corresponding week of 1922. (From the Weekly Health Index, September 5, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Sept. 1, 1923.	Corresponding week, 1922.
Policies in force.....	54, 559, 352	50, 486, 420
Number of death claims.....	8, 232	7, 077
Death claims per 1,000 policies in force, annual rate.....	7.9	7.3

Deaths from all causes in certain large cities of the United States during the week ended September 1, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, September 5, 1923, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended Sept. 1, 1923.		Annual death rate per 1,000, corre- sponding week, 1922.	Deaths under 1 year.		Infant mortality rate, week ended Sept. 1, 1923. <sup>1</sup>
	Total deaths.	Death rate. <sup>1</sup>		Week ended Sept. 1, 1923.	Corre- sponding week, 1922.	
Total.....	5,891	10.7	10.2	896	882	.....
Albany, N. Y. <sup>2</sup> .....	37	16.4	12.6	4	3	88
Atlanta, Ga.....	63	14.7	15.4	10	10	.....
Baltimore, Md. <sup>2</sup> .....	169	11.4	11.3	23	39	68
Birmingham, Ala.....	51	13.6	13.9	11	7	.....
Boston, Mass.....	178	12.0	12.6	26	36	74
Bridgeport, Conn.....	19	6.9	7.3	2	1	28
Buffalo, N. Y.....	111	10.8	10.0	31	31	117
Cambridge, Mass.....	19	8.9	11.8	3	6	53
Camden, N. J. <sup>2</sup> .....	27	11.3	14.5	6	7	99
Chicago, Ill.....	506	9.1	9.3	79	84	71
Cincinnati, Ohio.....	104	13.3	14.8	23	13	151
Cleveland, Ohio. <sup>2</sup> .....	162	9.5	7.6	20	25	55
Columbus, Ohio.....	67	13.4	11.7	7	8	73
Dallas, Tex.....	36	10.6	11.2	10	4	.....
Dayton, Ohio.....	34	10.7	9.3	6	2	99
Denver, Colo.....	67	12.8	10.9	10	7	.....
Des Moines, Iowa.....	32	11.8	.....	1	.....	.....
Detroit, Mich.....	210	11.0	9.2	43	46	86
Duluth, Minn.....	14	6.9	.....	3	.....	68
Erie, Pa.....	18	8.3	10.9	3	5	61
Fall River, Mass. <sup>2</sup> .....	28	12.1	13.8	10	9	142
Flint, Mich.....	25	11.1	.....	9	.....	179
Fort Worth, Tex.....	26	9.4	12.7	1	4	.....
Grand Rapids, Mich.....	25	8.9	9.1	4	7	63
Houston, Tex.....	25	8.4	13.9	2	8	.....
Indianapolis, Ind.....	92	14.0	9.6	25	7	192
Kansas City, Kans.....	23	10.4	16.5	3	6	69
Kansas City, Mo.....	70	10.4	13.0	13	9	.....
Los Angeles, Calif.....	179	14.0	14.5	25	29	94
Louisville, Ky.....	70	14.2	10.8	12	4	129
Lowell, Mass.....	28	12.7	10.9	5	4	87
Lynn, Mass.....	18	9.1	.....	2	.....	53
Memphis, Tenn.....	60	18.4	17.4	9	9	.....
Milwaukee, Wis.....	73	7.9	8.2	10	13	50
Minneapolis, Minn.....	67	8.5	8.3	4	9	22
Nashville, Tenn. <sup>2</sup> .....	46	19.8	14.3	3	4	.....
New Bedford, Mass.....	28	11.2	12.3	9	12	141
New Haven, Conn.....	24	7.2	5.8	4	3	52
New Orleans, La.....	131	16.9	14.1	14	16	.....
New York, N. Y.....	1,089	9.6	8.8	159	152	64
Bronx borough.....	126	7.8	7.4	13	7	46
Brooklyn borough.....	330	8.0	8.1	55	53	58
Manhattan borough.....	525	12.1	10.2	80	79	78
Queens borough.....	88	8.6	7.6	11	11	59
Richmond borough.....	20	8.2	9.6	0	2	0

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births.

<sup>3</sup> Deaths for week ended Friday, Aug. 31, 1923.

*Deaths from all causes in certain large cities of the United States during the week ended September 1, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, September 5, 1923, issued by the Bureau of the Census, Department of Commerce)—Continued.*

City.	Week ended Sept. 1, 1923.		Annual death rate per 1,000, corre- sponding week, 1922.	Deaths under 1 year.		Infant mor- tality rate, week ended Sept. 1, 1923.
	Total deaths.	Death rate.		Week ended Sept. 1, 1923.	Corre- sponding week, 1922.	
Newark, N. J.....	80	9.5	9.1	17	14	80
Norfolk, Va.....	30	9.8	9.6	4	2	71
Oakland, Calif.....	33	7.2	9.6	3	5	39
Omaha, Nebr.....	38	9.7	9.1	5	2	54
Paterson, N. J.....	31	11.6	8.7	1	3	16
Philadelphia, Pa.....	368	10.0	10.1	52	54	67
Pittsburgh, Pa.....	134	11.4	10.6	25	23	87
Portland, Oreg.....	59	11.2	7.6	5	3	51
Providence, R. I.....	64	13.8	12.5	14	12	114
Richmond, Va.....	36	10.4	16.1	7	9	86
Rochester, N. Y.....	59	9.7	8.5	8	7	63
St. Louis, Mo.....	179	11.6	9.2	24	10	.....
St. Paul, Minn.....	51	11.0	10.9	7	7	65
Salt Lake City, Utah <sup>1</sup> .....	22	9.1	8.8	1	4	16
San Antonio, Tex.....	36	10.2	12.3	7	9	.....
San Francisco, Calif.....	133	12.9	11.8	10	14	60
Seattle, Wash.....	54	8.9	8.4	4	2	35
Spokane, Wash.....	18	9.0	6.5	0	2	0
Springfield, Mass.....	26	9.4	10.4	8	7	114
Syracuse, N. Y.....	43	12.2	12.4	4	5	52
Tacoma, Wash.....	19	9.7	.....	0	.....	0
Toledo, Ohio.....	60	11.7	8.8	10	8	101
Trenton, N. J.....	38	15.6	16.3	6	5	102
Utica, N. Y.....	13	6.6	.....	3	.....	64
Washington, D. C.....	108	12.9	12.5	9	16	51
Wilmington, Del.....	29	12.8	9.0	8	7	163
Worcester, Mass.....	33	9.0	11.9	5	8	57
Yonkers, N. Y.....	7	3.4	4.9	2	1	43
Youngstown, Ohio.....	30	15.4	8.7	6	4	81

<sup>1</sup> Deaths for week ended Friday, Aug. 31, 1923.

# 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.

### CURRENT STATE SUMMARIES.

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers.

#### Reports for Week Ended Sept. 8, 1923.

ALABAMA.		CALIFORNIA.	
	Cases.		Cases.
Chicken pox.....	11	Cerebrospinal meningitis—Los Angeles.....	1
Dengue.....	4	Diphtheria.....	129
Diphtheria.....	56	Influenza.....	5
Dysentery.....	22	Measles.....	159
Influenza.....	6	Poliomyelitis:	
Malaria.....	344	Los Angeles.....	1
Measles.....	59	Los Angeles County.....	1
Pellagra.....	24	Scarlet fever.....	33
Pneumonia.....	10	Smallpox.....	4
Scarlet fever.....	25	Typhoid fever.....	11
Tuberculosis.....	36		
Typhoid fever.....	72		
Whooping cough.....	40		
ARIZONA.		COLORADO.	
	Cases.	(Exclusive of Denver.)	Cases.
Chicken pox.....	2	Cerebrospinal meningitis.....	1
Scarlet fever.....	1	Chicken pox.....	2
Tuberculosis.....	4	Diphtheria.....	26
Typhoid fever.....	1	Measles.....	8
ARKANSAS.		Mumps.....	5
	Cases.	Pneumonia.....	1
Chicken pox.....	18	Scarlet fever.....	5
Diphtheria.....	7	Tuberculosis.....	90
Hookworm disease.....	6	Typhoid fever.....	12
Influenza.....	18	Whooping cough.....	15
Malaria.....	585		
Measles.....	18		
Mumps.....	1		
Ophthalmia neonatorum.....	1		
Paratyphoid fever.....	2		
Pellagra.....	45		
Scarlet fever.....	7		
Smallpox.....	5		
Trachoma.....	5		
Tuberculosis.....	23		
Typhoid fever.....	8		
Whooping cough.....	74		
		CONNECTICUT.	
	Cases.		Cases.
		Chicken pox.....	4
		Diphtheria.....	20
		Dysentery (bacillary).....	2
		Malaria.....	1
		Measles.....	6
		Pneumonia (lobar).....	2
		Poliomyelitis.....	4
		Scarlet fever.....	21
		Septic sore throat.....	3
		Smallpox.....	2
		Tetanus.....	1
		Tuberculosis (all forms).....	34
		Typhoid fever.....	19
		Whooping cough.....	67

DELAWARE.		Cases.	IOWA.		Cases.
Chicken pox.....		1	Diphtheria.....		24
Malaria.....		1	Poliomyelitis.....		9
Measles.....		3	Scarlet fever.....		16
Scarlet fever.....		4	Typhoid fever.....		3
Tuberculosis.....		3			
Typhoid fever.....		5			
Whooping cough.....		1			
FLORIDA.			KANSAS.		
Cerebrospinal meningitis.....		1	Cerebrospinal meningitis.....		1
Diphtheria.....		6	Chicken pox.....		6
Malaria.....		19	Diphtheria.....		26
Paratyphoid fever.....		1	Dysentery (bacillary).....		1
Pneumonia.....		1	Malaria.....		4
Typhoid fever.....		4	Measles.....		9
			Mumps.....		1
GEORGIA.			Pneumonia.....		1
Diphtheria.....		7	Poliomyelitis.....		6
Dysentery (bacillary).....		1	Scarlet fever.....		50
Hookworm disease.....		13	Tuberculosis.....		24
Influenza.....		1	Typhoid fever.....		61
Malaria.....		80	Whooping cough.....		42
Measles.....		13			
Paratyphoid fever.....		1	LOUISIANA.		
Pneumonia.....		1	Dengue.....		10
Scarlet fever.....		1	Diphtheria.....		20
Septic sore throat.....		1	Leprosy.....		2
Tuberculosis (pulmonary).....		12	Malaria.....		22
Typhoid fever.....		12	Measles.....		3
Whooping cough.....		3	Tuberculosis.....		25
			Typhoid fever.....		24
			Whooping cough.....		5
ILLINOIS.			MAINE.		
Cerebrospinal meningitis:			Chicken pox.....		4
Chicago.....		1	Diphtheria.....		4
Lake County.....		1	Measles.....		15
Diphtheria:			Poliomyelitis.....		1
Cook County.....		70	Scarlet fever.....		2
Scattering.....		29	Tuberculosis.....		8
Influenza.....		9	Typhoid fever.....		3
Pneumonia.....		72	Whooping cough.....		59
Poliomyelitis:					
Chicago.....		8	MARYLAND. <sup>1</sup>		
Effingham County.....		1	Chicken pox.....		5
Hardin County.....		1	Diphtheria.....		17
Kane County.....		2	Dysentery.....		10
Lake County.....		1	Influenza.....		3
Tazewell County.....		1	Lethargic encephalitis.....		1
Vermilion County.....		2	Malaria.....		11
Scarlet fever:			Measles.....		36
Cook County.....		30	Mumps.....		5
Scattering.....		34	Pneumonia (all forms).....		23
Smallpox.....		5	Scarlet fever.....		18
Typhoid fever:			Tetanus.....		1
Cook County.....		13	Tuberculosis.....		76
Scattering.....		44	Typhoid fever.....		71
Whooping cough.....		133	Whooping cough.....		56
INDIANA.			MASSACHUSETTS.		
Cerebrospinal meningitis—Dearborn County.....		1	Cerebrospinal meningitis.....		1
Diphtheria.....		48	Chicken pox.....		29
Influenza.....		10	Conjunctivitis (suppurative).....		5
Measles.....		18	Diphtheria.....		150
Poliomyelitis:			German measles.....		2
Marion County.....		1	Influenza.....		5
Tippecanoe County.....		1	Lethargic encephalitis.....		2
Scarlet fever.....		31	Malaria.....		1
Smallpox.....		9	Measles.....		21
Tuberculosis.....		41	Mumps.....		23
Typhoid fever.....		16	Ophthalmia neonatorum.....		16

<sup>1</sup> Week ended Friday.



MASSACHUSETTS—continued.		Cases.	NEW JERSEY—continued.		Cases.
Pneumonia (lobar).....		25	Dysentery.....		1
Poliomyelitis.....		7	Influenza.....		7
Scarlet fever.....		57	Malaria.....		1
Septic sore throat.....		1	Measles.....		15
Tetanus.....		2	Pneumonia.....		34
Tuberculosis (all forms).....		132	Poliomyelitis.....		6
Typhoid fever.....		17	Scarlet fever.....		15
Whooping cough.....		81	Typhoid fever.....		18
			Whooping cough.....		55
MICHIGAN.			NEW MEXICO.		
Diphtheria.....		110	Diphtheria.....		13
Measles.....		33	Dysentery.....		3
Pneumonia.....		25	Measles.....		14
Scarlet fever.....		111	Mumps.....		1
Smallpox.....		17	Pellagra.....		1
Tuberculosis.....		59	Pneumonia.....		1
Typhoid fever.....		36	Scarlet fever.....		4
Whooping cough.....		50	Trachoma.....		48
			Tuberculosis.....		12
MINNESOTA.			Typhoid fever.....		17
Chicken pox.....		13	Whooping cough.....		4
Diphtheria.....		78			
Measles.....		32	NEW YORK.		
Influenza.....		2	(Exclusive of New York City.)		
Poliomyelitis.....		4	Cerebrospinal meningitis.....		3
Pneumonia.....		3	Diphtheria.....		92
Scarlet fever.....		112	I ethargic encephalitis.....		3
Smallpox.....		5	Measles.....		113
Trachoma.....		1	Pneumonia.....		68
Tuberculosis.....		88	Poliomyelitis.....		14
Typhoid fever.....		17	Scarlet fever.....		90
Whooping cough.....		10	Typhoid fever.....		51
			Whooping cough.....		200
MISSISSIPPI.			NORTH CAROLINA.		
Diphtheria.....		36	Cerebrospinal meningitis.....		2
Poliomyelitis.....		3	Chicken pox.....		8
Scarlet fever.....		9	Diphtheria.....		135
Smallpox.....		1	German measles.....		4
Typhoid fever.....		44	Measles.....		146
			Poliomyelitis.....		1
MISSOURI.			Scarlet fever.....		43
Cerebrospinal meningitis.....		4	Smallpox.....		15
Chicken pox.....		3	Typhoid fever.....		76
Diphtheria.....		92	Whooping cough.....		185
Influenza.....		11			
Measles.....		20	OREGON.		
Mumps.....		1	Chicken pox.....		5
Ophthalmia neonatorum.....		1	Diphtheria.....		9
Poliomyelitis.....		4	Measles.....		8
Pneumonia.....		1	Pneumonia.....		13
Scarlet fever.....		52	Scarlet fever.....		6
Smallpox.....		4	Smallpox.....		3
Tetanus.....		2	Typhoid fever.....		3
Trachoma.....		62	Whooping cough.....		5
Tuberculosis.....		112			
Typhoid fever.....		42	SOUTH DAKOTA.		
Whooping cough.....		144	Anthrax.....		2
			Diphtheria.....		5
MONTANA.			Pneumonia.....		1
Diphtheria.....		8	Scarlet fever.....		19
Scarlet fever.....		12	Smallpox.....		1
Smallpox.....		2	Typhoid fever.....		6
Typhoid fever.....		3	Whooping cough.....		1
NEW JERSEY.					
Cerebrospinal meningitis.....		2			
Chicken pox.....		10			
Diphtheria.....		61			

TEXAS.		Cases.	WASHINGTON—continued.		Cases.
Chicken pox.....		4	Scarlet fever.....		10
Dengue.....		31	Smallpox.....		19
Diphtheria.....		23	Tuberculosis.....		37
Influenza.....		6	Typhoid fever.....		17
Measles.....		7	Whooping cough.....		16
Mumps.....		4			
Paratyphoid fever.....		1	WEST VIRGINIA.		
Pellagra.....		2	Diphtheria.....		6
Scarlet fever.....		8	Scarlet fever.....		8
Smallpox.....		1	Typhoid fever.....		6
Trachoma.....		17			
Tuberculosis.....		18	WISCONSIN.		
Typhoid fever.....		19	Milwaukee:		
Whooping cough.....		19	Chicken pox.....		5
			Diphtheria.....		22
VERMONT.			Measles.....		3
Chicken pox.....		5	Pneumonia.....		1
Measles.....		9	Poliomyelitis.....		1
Mumps.....		9	Scarlet fever.....		10
Poliomyelitis.....		1	Tuberculosis.....		11
Scarlet fever.....		2	Whooping cough.....		34
Smallpox.....		2	Scattering:		
Typhoid fever.....		2	Cerebrospinal meningitis.....		1
Whooping cough.....		30	Chicken pox.....		13
			Diphtheria.....		47
WASHINGTON.			Influenza.....		4
Chicken pox.....		5	Measles.....		44
Diphtheria.....		16	Pneumonia.....		3
Measles.....		16	Poliomyelitis.....		1
Poliomyelitis:			Scarlet fever.....		42
Seattle.....		2	Smallpox.....		8
Whitman County.....		1	Tuberculosis.....		21
			Typhoid fever.....		13
			Whooping cough.....		72

## Reports for Week Ended Sept. 1, 1923.

ALABAMA.		Cases.	CALIFORNIA—continued.		Cases.
Dengue.....		5	Scarlet fever.....		34
Diphtheria.....		36	Smallpox.....		14
Dysentery.....		13	Typhoid fever.....		12
Influenza.....		15			
Malaria.....		376	COLORADO.		
Measles.....		92	(Exclusive of Denver.)		
Pellagra.....		3	Chicken pox.....		7
Pneumonia.....		11	Diphtheria.....		13
Scarlet fever.....		17	Measles.....		56
Smallpox.....		3	Mumps.....		1
Tuberculosis.....		36	Pneumonia.....		1
Typhoid fever.....		106	Scarlet fever.....		1
Whooping cough.....		39	Tuberculosis.....		66
			Typhoid fever.....		21
ARIZONA.			Whooping cough.....		17
Diphtheria.....		1			
Measles.....		4	DISTRICT OF COLUMBIA.		
Pneumonia.....		1	Diphtheria.....		7
Scarlet fever.....		3	Measles.....		2
			Smallpox.....		3
CALIFORNIA.			Tuberculosis.....		28
Anthrax—Stockton.....		1	Typhoid fever.....		4
Diphtheria.....		104	Whooping cough.....		4
Influenza.....		4			
Leprosy.....		1	MAINE.		
Lethargic encephalitis—San Francisco.....		3	Chicken pox.....		2
Measles.....		198	Diphtheria.....		10
Poliomyelitis:			Measles.....		33
Los Angeles County.....		2	Mumps.....		2
Los Angeles.....		3			
Berkeley.....		1			

MAINE—continued.		Cases.
Paratyphoid fever.....	2	
Pneumonia.....	1	
Scarlet fever.....	12	
Tuberculosis.....	14	
Typhoid fever.....	10	
Whooping cough.....	24	

## NEBRASKA.

Chicken pox.....	1
Diphtheria.....	12
Measles.....	1
Poliomyelitis.....	13
Scarlet fever.....	10
Smallpox.....	4
Tuberculosis.....	1
Typhoid fever.....	1
Whooping cough.....	1

## NORTH DAKOTA.

Chicken pox.....	1
Diphtheria.....	14
Measles.....	11
Pneumonia.....	1
Poliomyelitis.....	1
Scarlet fever.....	22
Trachoma.....	1
Tuberculosis.....	1
Typhoid fever.....	2
Whooping cough.....	8

WISCONSIN.		Cases.
Milwaukee:		
Chicken pox.....	1	
Diphtheria.....	17	
Lethargic encephalitis.....	1	
Measles.....	2	
Pneumonia.....	2	
Poliomyelitis.....	1	
Scarlet fever.....	7	
Tuberculosis.....	20	
Typhoid fever.....	2	
Whooping cough.....	22	
Scattering:		
Cerebrospinal meningitis.....	2	
Chicken pox.....	9	
Diphtheria.....	42	
Influenza.....	5	
Lethargic encephalitis.....	1	
Measles.....	39	
Pneumonia.....	1	
Scarlet fever.....	59	
Smallpox.....	8	
Tuberculosis.....	6	
Typhoid fever.....	8	
Whooping cough.....	80	

## WYOMING.

Dysentery.....	2
Measles.....	4
Scarlet fever.....	2
Tuberculosis.....	3
Typhoid fever.....	4

## SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pollagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>July, 1923.</i>										
Alabama.....		54	52	634	625	65	3	30	3	352
California.....	13	517	40	21	1,617	4	8	325	135	72
Delaware.....		5		4	9			20		4
Maine.....		20			302			42		14
<i>August, 1923.</i>										
Connecticut.....	3	125	7	9	113		17	99	11	56
District of Columbia.....	1	14	4		11			7	2	20

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923.

## ANTHRAX.

City.	Cases.	Deaths.
Pennsylvania:		
Philadelphia.....	1	

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

## CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 25, 1923.		City.	Median for previous years.	Week ended Aug. 25, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Missouri:			
Los Angeles.....	0	1	.....	St. Louis.....	0	1	1
Indiana:				New Jersey:			
Mishawaka.....	0	1	.....	Hoboken.....	0	.....	1
Massachusetts:				New York:			
Boston.....	0	1	1	Buffalo.....	0	1	.....
Fall River.....	0	1	.....	New York.....	4	1	2
Lynn.....	0	.....	1	Ohio:			
Michigan:				Cleveland.....	1	1	1
Detroit.....	1	.....	1				

## DIPHTHERIA.

See p. 2145; also Current State summaries, p. 2135, and Monthly summaries by States, p. 2139.

## INFLUENZA.

City.	Cases.		Deaths, week ended Aug. 25, 1923.	City.	Cases.		Deaths week ended Aug. 25, 1923.
	Week ended Aug. 26, 1922.	Week ended Aug. 25, 1923.			Week ended Aug. 26, 1922.	Week ended Aug. 25, 1923.	
Alabama:				Missouri:			
Birmingham.....			1	Kansas City.....	1	.....	.....
Mobile.....			1	New Jersey:			
California:				Bayonne.....		1	.....
Los Angeles.....	1	4	.....	West Orange.....	2	.....	.....
San Diego.....	1	.....	.....	New Mexico:			
San Francisco.....		1	.....	Albuquerque.....			1
Connecticut:				New York:			
Bridgeport.....			1	New York.....	4	2	3
New London.....		1	.....	Rochester.....			1
Illinois:				Ohio:			
Chicago.....	4	.....	2	Cincinnati.....	2	.....	1
Indiana:				Cledo.....			1
Anderson.....			1	Pennsylvania:			
Louisiana:				Philadelphia.....	1	.....	1
New Orleans.....	1	1	1	Pittsburgh.....			1
Maryland:				Virginia:			
Baltimore.....	1	.....	.....	Norfolk.....		1	.....
Massachusetts:							
Boston.....		1	.....				
Brookline.....	1	.....	.....				
Cambridge.....	1	.....	.....				

## LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California:			New Jersey:		
San Francisco.....		1	East Orange.....	2	.....

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

## MALARIA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Louisiana:		
Birmingham.....	10	1	New Orleans.....	2	.....
Dothan.....	2	.....	Massachusetts:		
Montgomery.....	3	.....	Boston.....	1	.....
Tuscaloosa.....	2	.....	Michigan:		
Arkansas:			Flint.....		1
Little Rock.....	8	.....	New York:		
California:			New York.....	3	.....
Sacramento.....	2	.....	Ohio:		
Florida:			Cleveland.....	1	.....
Tampa.....	1	2	South Carolina:		
Georgia:			Charleston.....		1
Augusta.....	7	.....	Tennessee:		
Macon.....	1	.....	Memphis.....	26	3
Illinois:			Texas:		
Jacksonville.....	1	.....	Austin.....	1	.....
Kansas:			Houston.....		2
Kansas City.....	1	.....			

## MEASLES.

See p. 2145; also Current State summaries, p. 2135, and Monthly summaries by States, p. 2139.

## PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Georgia:			Texas:		
Atlanta.....		1	Dallas.....		1

## PNEUMONIA (ALL FORMS).

Alabama:			Kansas:		
Birmingham.....	5	1	Kansas City.....	2	.....
Montgomery.....		1	Wichita.....		1
California:			Kentucky:		
Los Angeles.....	19	10	Covington.....		2
Oakland.....	4	4	Lexington.....		1
Richmond.....	1	1	Louisville.....		3
San Bernardino.....	1	1	Louisiana:		
San Diego.....	3	2	New Orleans.....		9
San Francisco.....	4	1	Maine:		
Stockton.....		1	Biddeford.....		3
Colorado:			Lewiston.....		1
Denver.....		4	Maryland:		
Connecticut:			Baltimore.....		13
Bridgeport.....		1	Frederick.....	1	.....
New Haven.....		4	Massachusetts:		
Waterbury.....		2	Boston.....	10	14
District of Columbia:			Chicopee.....		1
Washington.....		8	Everett.....		1
Georgia:			Haverhill.....	1	.....
Atlanta.....	8	7	Lawrence.....	1	.....
Savannah.....		1	Melrose.....		1
Illinois:			New Bedford.....		1
Bloomington.....		2	Newton.....	1	.....
Chicago.....	42	11	Somerville.....		3
Cicero.....	3	.....	Southbridge.....		1
Decatur.....	1	.....	Springfield.....		1
East St. Louis.....		1	Taunton.....		2
Elgin.....	1	.....	Watertown.....		1
Galesburg.....		1	Worcester.....		2
Oakpark.....	1	.....	Michigan:		
Peoria.....		1	Ann Arbor.....	1	.....
Indiana:			Detroit.....		15
Fort Wayne.....		3	Flint.....		1
Gary.....		2	Grand Rapids.....		2
Indianapolis.....		2	Hamtramck.....		2
Michigan City.....		1	Highland Park.....		2
Michigan City.....		1	Kalamazoo.....	2	.....
South Bend.....		1	Pontiac.....		2
Iowa:			Saginaw.....	1	.....
Muscatine.....		1			

<sup>1</sup> Lobar.

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Minnesota:			Ohio—Continued.		
Hibbing.....	1	—	Dayton.....	1	—
Minneapolis.....	—	2	Lorain.....	2	—
St. Paul.....	—	5	Mansfield.....	—	1
Missouri:			Newark.....	—	1
Kansas City.....	—	5	Salem.....	—	1
Montana:			Youngstown.....	—	3
Missoula.....	1	—	Oregon:		
Nebraska:			Portland.....	—	1
Lincoln.....	—	1	Pennsylvania:		
Omaha.....	—	4	Philadelphia.....	42	31
New Jersey:			Pittsburgh.....	—	11
East Orange.....	1	—	Rhode Island:		
Elizabeth.....	—	1	Pawtucket.....	—	1
Hackensack.....	—	1	Providence.....	—	1
Hoboken.....	1	—	South Carolina:		
Jersey City.....	2	—	Charleston.....	—	1
Newark.....	14	5	Columbia.....	—	1
Plainfield.....	—	1	Tennessee:		
Trenton.....	1	—	Memphis.....	—	3
West Hoboken.....	—	1	Nashville.....	—	1
New York:			Texas:		
Buffalo.....	—	6	Austin.....	1	—
Glens Falls.....	1	—	Dallas.....	—	1
Lackawanna.....	7	1	El Paso.....	—	2
Mount Vernon.....	1	—	Galveston.....	—	2
New York.....	76	65	Houston.....	—	1
Niagara Falls.....	—	1	San Antonio.....	—	2
North Tonawanda.....	—	1	Utah:		
Rochester.....	10	2	Salt Lake City.....	—	1
Rome.....	1	—	Virginia:		
Schenectady.....	2	1	Alexandria.....	—	1
Syracuse.....	2	1	Charlottesville.....	—	1
Troy.....	4	2	Norfolk.....	—	2
North Carolina:			Richmond.....	—	2
Wilmington.....	—	1	West Virginia:		
Winston-Salem.....	—	2	Huntington.....	—	3
Ohio:			Wheeling.....	—	2
Akron.....	1	—	Wisconsin:		
Cincinnati.....	—	3	Ashland.....	—	1
Cleveland.....	8	6	Milwaukee.....	1	—

## POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 25, 1923.		City.	Median for previous years.	Week ended Aug. 25, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Montana:			
Los Angeles.....	0	1	—	Missoula.....	0	2	—
Connecticut:				Nebraska:			
Stonington.....	—	1	—	Omaha.....	0	4	1
Waterbury.....	0	1	—	New Jersey:			
Illinois:				Hoboken.....	0	2	—
Chicago.....	6	7	2	Jersey City.....	0	1	—
Iowa:				Trenton.....	0	1	—
Council Bluffs.....	0	2	—	West Hoboken.....	0	1	—
Davenport.....	0	1	—	New York:			
Marshalltown.....	0	1	—	New York.....	2	49	6
Kansas:				Newburgh.....	0	2	—
Topeka.....	0	5	—	Ohio:			
Maryland:				Dayton.....	0	1	—
Cumberland.....	0	1	—	Pennsylvania:			
Massachusetts:				Philadelphia.....	0	1	—
Boston.....	2	1	1	Rhode Island:			
Fall River.....	0	—	1	Pawtucket.....	0	1	—
Newton.....	0	1	—	Vermont:			
Northampton.....	0	1	—	Burlington.....	0	1	—
Worcester.....	0	2	—	West Virginia:			
Minnesota:				Huntington.....	—	4	—
Duluth.....	0	1	—	Wisconsin:			
Minneapolis.....	0	1	—	Milwaukee.....	0	2	1
Missouri:							
Kansas City.....	0	2	—				
St. Louis.....	1	1	—				

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

## RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Tennessee:	
Los Angeles.....	13	Memphis.....	2
Pasadena.....	1	Texas:	
San Francisco.....	1	Dallas.....	1
Kentucky:			
Louisville.....	1		
New Jersey:			
East Orange.....	1		
Orange.....	1		

## SCARLET FEVER.

See p. 2145; also Current State summaries, p. 2135, and Monthly summaries by States, p. 2139.

## SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended Aug. 25, 1923.		City.	Median for pre- vious years.	Week ended Aug. 25, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Minnesota:			
Long Beach.....	0	1	.....	Minneapolis.....	2	2	.....
Los Angeles.....	1	5	.....	St. Paul.....	1	1	.....
Connecticut:				Ohio:			
New Haven.....	0	1	.....	Cleveland.....	0	2	.....
Georgia:				Oregon:			
Atlanta.....	2	1	.....	Portland.....	5	3	.....
Illinois:				Tennessee:			
Decatur.....	0	6	.....	Memphis.....	0	1	.....
Indiana:				Texas:			
Kokomo.....	0	1	.....	Houston.....	0	2	.....
Michigan City.....	0	.....	1	Vermont:			
Muncie.....	0	2	.....	Burlington.....	0	2	.....
Iowa:				Washington:			
Davenport.....	0	4	.....	Everett.....	0	1	.....
Des Moines.....	0	1	.....	Wisconsin:			
Sioux City.....	0	2	.....	Kenosha.....	0	1	.....
Michigan:				Superior.....	0	6	.....
Grand Rapids.....	0	1	.....				
Pontiac.....	0	2	.....				

## TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Missouri:		
Mobile.....	.....	1	Kansas City.....	1	1
California:			Nevada:		
Glendale.....	.....	1	Reno.....	1	1
Illinois:			New York:		
Chicago.....	1	1	New York.....	1	1
Indiana:			Pennsylvania:		
Indianapolis.....	.....	1	Pittsburgh.....	1	.....
Maryland:			Tennessee:		
Frederick.....	1	.....	Memphis.....	.....	1
Massachusetts:					
New Bedford.....	1	1			

## TUBERCULOSIS.

See p. 2145; also Current State summaries, p. 2135.

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

## TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 25, 1923.		City.	Median for previous years.	Week ended Aug. 25, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				New Jersey:			
Birmingham.....	9	3		Atlantic City.....	2	1	
Mobile.....	2	1	2	Bloomfield.....	0		1
Montgomery.....	0	1		Englewood.....	0	3	
Arkansas:				Hoboken.....	0	1	
Fort Smith.....	0	1		Kearny.....	0		1
Little Rock.....	1	7		Newark.....	5	2	
California:				Trenton.....	1	4	
Berkeley.....	1	1		West Orange.....	0	1	1
Long Beach.....	0	2		New Mexico:			
Los Angeles.....	4	7	1	Albuquerque.....	0	1	
Pasadena.....	4		1	New York:			
San Bernardino.....		1		Buffalo.....	3	4	
San Francisco.....	3		1	Glens Falls.....	0	1	1
Colorado:	3			Hornell.....	0	2	
Denver.....		4		Mount Vernon.....	1	1	
Connecticut:				New York.....	63	52	5
Hartford.....	3		1	Poughkeepsie.....	0	1	
Meriden.....	0	1		Rochester.....	1	1	
New Haven.....	4	4		Schenectady.....	0	1	
District of Columbia:				Troy.....	1	3	
Washington.....	9	6	1	White Plains.....	0	1	
Georgia:				North Carolina:			
Atlanta.....	5	7	2	Raleigh.....	0	1	
Athens.....	0	6		Winston-Salem.....	4	2	
Macon.....	3	1		Ohio:			
Rome.....	0	3		Canton.....	1	1	
Illinois:				Cincinnati.....	2	4	
Chicago.....	6	5		Cleveland.....	7	7	2
East St. Louis.....	1	4		Dayton.....	1	2	
Kewanee.....	0	1		Mansfield.....	0	1	
Oak Park.....	0	2		Piqua.....	1	2	
Pekin.....	0	1		Tledo.....	3	3	1
Peoria.....	0	1		Zanesville.....	0	2	
Indiana:				Oklahoma:			
Fort Wayne.....	2	10		Tulsa.....	7	3	
Mishawaka.....	0	1	1	Oregon:			
Muncie.....	0	1		Portland.....	0	2	
South Bend.....	0	1	1	Pennsylvania:			
Terre Haute.....	0	1	1	Philadelphia.....	18	5	1
Kansas:				Pittsburgh.....	4	3	1
Atchison.....	0	1		South Carolina:			
Coffeyville.....	1	4		Charleston.....	1	5	1
Fort Scott.....	0	1	1	Tennessee:			
Kansas City.....	2	3		Knoxville.....	2	3	1
Lawrence.....	0	1		Memphis.....	2	9	
Topeka.....	2		1	Nashville.....	12	6	
Wichita.....	4	1		Texas:			
Kentucky:				Austin.....	0	3	
Louisville.....	6	1		Dallas.....	4	1	1
Owensboro.....	1	3		El Paso.....	0	1	
Louisiana:				Fort Worth.....	1	1	
New Orleans.....	6	5		Houston.....	2	1	1
Maine:				Waco.....	0	1	
Bath.....	0	1		Utah:			
Portland.....	2	1		Salt Lake City.....	1	5	
Maryland:				Virginia:			
Baltimore.....	11	7	1	Charlottesville.....	2	1	
Cumberland.....	0	1		Lynchburg.....	1		1
Frederick.....		1		Norfolk.....	5	2	
Massachusetts:				Richmond.....	3		1
Boston.....	8	3		Roanoke.....	2	4	
Fall River.....	5	1		Washington:			
Haverhill.....	1		1	Everett.....	0	19	
Southbridge.....	0	1		Seattle.....	1	1	
Springfield.....	1	2	1	West Virginia:			
Michigan:				Bluefield.....	2	4	
Detroit.....	12	3	1	Charleston.....	1	3	
Grand Rapids.....	2	2		Clarksburg.....	1	1	
Saginaw.....	0	2	1	Huntington.....	3	2	
Missouri:				Wheeling.....	2	1	1
Kansas City.....	4	1	1	Wisconsin:			
St. Louis.....	11	4	1	Racine.....	0	1	
Nevada:							
Reno.....	0	1					



## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Alabama:</b>										
Birmingham	178,806	51	2	1	7		2		13	5
Dothan	10,034	2			8		1		1	
Mobile	60,777	18	2							1
Montgomery	43,464	14	1							
<b>Arkansas:</b>										
Fort Smith	28,870						1			
Little Rock	65,142				1				1	
<b>California:</b>										
Alameda	28,806	3	1		1					
Bakersfield	18,638	7					1			
Berkeley	56,036	11			1				1	
Eureka	12,923	5		1	1					1
Glendale	13,536	8								1
Long Beach	55,593	16	1	1			3		1	
Los Angeles	576,673	204	28	1	8	1	7		95	26
Oakland	216,261	54	7	1	1		2		5	1
Pasadena	45,354	12							1	
Richmond	16,843				1		1			
Riverside	19,341	7	1						1	1
Sacramento	65,908	12	2	1			1		3	1
San Bernardino	18,721	7							1	1
San Diego	74,683	22			1				4	4
San Francisco	506,676	112	21	1	67		4		21	6
Santa Ana	15,485	3					3			
Santa Barbara	19,441	2								
Stockton	40,296	13		1						
Vallejo	21,107	1								
<b>Colorado:</b>										
Denver	256,491	66	13		3		2			8
Pueblo	43,050	10	4		1					1
<b>Connecticut:</b>										
Bridgeport	143,555	26	7		1		2		6	1
Hartford	138,036	36	4		1				3	1
Manchester (town)	18,370	3					1			
Meriden (city)	29,867								1	
Milford (town)	10,193	2							2	1
New Haven	162,537	34	3		3		1		10	3
New London	25,688	6	1						1	
Stonington (town)	10,236	1								1
Waterbury	91,715	19	1				7		2	2
<b>District of Columbia:</b>										
Washington	437,571	99	3		2		3			
<b>Florida:</b>										
St. Petersburg	14,237	5								
Tampa	51,608	13					1		1	
<b>Georgia:</b>										
Albany	11,555		1		1					
Atlanta	200,616	61	1		1	4	1			2
Augusta	52,548	10							2	
Macon	52,995								4	
Rome	13,252				2					
Savannah	83,252	37								6
<b>Idaho:</b>										
Boise	21,393	4	1				1			
<b>Illinois:</b>										
Alton	24,682	5			1					
Aurora	36,397	9								
Bloomington	28,725	11								
Centralia	12,491	5	1							
Chicago	2,701,705	504	72	8	13		14	2	193	26
Cicero	44,995	6	2						1	2
Decatur	43,818	4			1					
East St. Louis	66,767	13								1
Elgin	27,454	4			1		1			
Evanston	37,234	15							1	
Forest Park	10,768		1							
Freeport	19,669	3	1				1			
Galesburg	23,534	6								
Jacksonville	15,713	10							2	2
Kewanee	16,026	4			1				1	1
La Salle	13,050	4								
Mattoon	13,532								3	
Oak Park	39,858	10								1

**CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.**

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Illinois—Continued.										
Peoria	12,086	25					1			1
Quincy	78,121	11								
Rock Island	35,978	6	3		3					
Springfield	35,177	17							1	
Indiana:										
Anderson	59,183	4	1				1			
Bloomington	29,767	2								
East Chicago	11,595	7	1				1			
Fort Wayne	35,967	22	1							1
Frankfort	86,549	3								
Gary	11,585	23								2
Hammond	55,378	5								
Huntington	36,004	3								
Indianapolis	14,000	103	6		5				6	2
Kokomo	314,194	8								
La Fayette	30,067	7			1					
Logansport	22,486	4	1						2	
Michigan City	21,626	12								
Mishawaka	19,457	2			1		1			
Muncie	15,195	12								1
South Bend	36,524	14	1				3			
Terre Haute	70,983	15					1			1
Iowa:										
Burlington	24,057	8								
Council Bluffs	36,162	5	1				1			
Davenport	56,727	4	4							
Des Moines	126,468	4			1		2			
Muscatine	16,068	7								1
Sioux City	71,227	1	1		4					
Kansas:										
Atchison	12,630				2					
Coffeyville	13,452	1	1							
Fort Scott	10,693	6								
Kansas City	101,177		1		4		3		11	
Lawrence	12,456	6								
Parsons	16,028		1				1			
Topeka	50,022	8					2		2	
Wichita	72,217	14	3		2		1			1
Kentucky:										
Covington	57,121	10			2				1	2
Henderson	12,169	2								
Lexington	41,534	12	1		2					1
Louisville	234,891	50	7				1		16	4
Owensboro	17,424						1			
Paducah	24,735		1							
Louisiana:										
New Orleans	387,219	103	14						14	6
Maine:										
Auburn	16,985	1							1	
Bath	14,731	2								
Biddeford	18,008	6								
Lewiston	31,791	6			1		1		4	
Portland	69,272	16	1		2		1			
Sanford (town)	10,691	0								
Maryland:										
Baltimore	733,526	164	10		8	1	13		22	18
Cumberland	29,537	10	1						2	
Frederick	11,066	2	3		2					
Massachusetts:										
Amesbury (town)	10,036	2								
Arlington (town)	18,665	4								
Attleboro	19,731	7								2
Belmont (town)	10,749	2					2			
Beverly	22,561	2					2			
Boston	748,060	170	52	1	14	1	15		39	8
Braintree (town)	10,580	1								1
Brockton	66,254	12					2		2	
Brookline	37,748	3							2	1
Cambridge	109,694	18	3				2		3	1
Chelsea	43,184	7	1				2		1	1
Chicopee	36,214	4					1			1
Clinton	12,979	1							1	

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Massachusetts—Continued.										
Dedham.....	10,792	0								
Everett.....	40,120	3	1				2		1	
Fall River.....	120,485	24					1		2	
Framingham.....	17,033	9								
Gardner.....	16,971	3							2	1
Greenfield.....	15,462	3								
Haverhill.....	53,884	6			2				1	
Holyoke.....	60,203	13	2				1		2	
Lawrence.....	94,270	14	4	2	2	1	1			
Leominster.....	19,744	2			1					
Lowell.....	112,759	20					1		2	2
Lynn.....	99,148	15	2				1		3	
Malden.....	49,103	3	1						2	1
Medford.....	39,038	5	2						1	
Methuen.....	18,204	9								
Methuen.....	15,189	1								
New Bedford.....	121,217	25			2				6	4
Newburyport.....	15,618	4							3	
Newton.....	46,054	4							1	
North Adams.....	22,282	3	3						1	
Northampton.....	21,951	8					2		1	1
Pittsfield.....	41,763	10	1				1			
Plymouth.....	13,045	4								
Quincy.....	47,876	7		1	2				1	
Salem.....	42,529	6	1				2			
Somerville.....	93,091	12	1		1		2			
Southbridge.....	14,245	4								
Springfield.....	129,614	19	1		1		2		3	1
Taunton.....	37,137	6			2				1	
Wakefield.....	13,025	5	2						1	
Waltham.....	30,915	3	3							
Watertown.....	21,457	4	1		1					
Webster.....	13,258	1								
Westfield.....	18,604	1								
Winthrop.....	15,455	3								
Woburn.....	16,574	6								
Worcester.....	179,754		6		6		5		2	1
Michigan:										
Ann Arbor.....	19,516	8	1		1		1			
Battle Creek.....	36,164	0	3							
Detroit.....	993,678	196	26	2			17		27	21
Flint.....	91,599	29	9		4		4			
Grand Rapids.....	137,634	27	2		5		1		5	
Hamtramck.....	43,615	5	6							1
Highland Park.....	46,499	9	1				1			
Holland.....	12,183	1	1				2			
Kalamazoo.....	48,487	16	10		1		1			
Marquette.....	12,713	3	5		1					
Maskagon.....	36,570	13			1					
Pontiac.....	34,273	18	4		1		5			3
Port Huron.....	25,944	10					1			
Saginaw.....	61,903	21	5		1		2		1	
Sault Ste. Marie.....	12,096	2	1		1					
Minnesota:										
Duluth.....	98,917	8					2		1	
Hibbing.....	15,089						1			
Minneapolis.....	380,582	52	10		1		14		32	1
Recheater.....	13,722	22			2					
St. Paul.....	224,698	50	21	1	1		5		13	4
Virginia.....	14,022						6			
Winona.....	19,143	2								
Missouri:										
Cape Girardeau.....	10,252	3								
Kansas City.....	324,410	72	3		1		8		5	5
St. Joseph.....	77,939	19	1		1		1			1
St. Louis.....	772,897	177	15	1	3		6		31	3
Montana:										
Anaconda.....	11,668	2			2					
Billings.....	15,100	4								
Great Falls.....	24,121	9	1						1	4
Helena.....	12,037				1					
Missoula.....	12,668	2								

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Nebraska:										
Lincoln	54,948	7					1		1	
Omaha	191,601	63	11	2			1			2
Nevada:										
Reno	12,016	2								
New Hampshire:										
Concord	22,167	5			2					
Dover	13,029	4								
Keene	11,210	1	2		6					
New Jersey:										
Asbury Park	12,400	4								
Atlantic City	50,707	14			2		1			
Bayonne	76,754		1						2	
Bloomfield	22,019	2							1	
Clifton	26,470	0	1		1					
East Orange	50,710	9			1				2	
Elizabeth	95,783		4	1					2	
Englewood	11,627	2								
Hackensack	17,667	3								
Hoboken	68,166	7	1						4	
Jersey City	298,103		2						4	
Kearny	26,724	4								
Long Branch	13,521	3	1							
Morristown	12,548	4								
Newark	414,524	83	4		1		3		23	6
Orange	38,268	4								
Passaic	63,541	7	2				1		1	
Paterson	135,875		3		2				5	
Perth Amboy	41,707	8	1				1	1		
Phillipsburg	16,923	5								
Plainfield	27,700	7			1		1		1	1
Summit	10,174	3								
Trenton	119,289	23	5		4		1		4	1
Union (town)	20,651						1			
West Hoboken	40,074	2								
West New York	29,926	3								
West Orange	15,573	1	1						1	
New Mexico:										
Albuquerque	15,157	6			1				1	1
New York:										
Amsterdam	33,524	6			1				1	
Buffalo	506,775	114	2				1		19	11
Cohoes	22,987	6	2							1
Cortland	13,294	2	1		3					
Geneva	14,648	9								
Glen Falls	16,638	3							2	
Hornell	15,025	2					1			
Hudson	11,745	5			1					
Ithaca	17,004	1							1	
Lackawanna	17,918	6	1		10		2		1	
Lockport	21,303	6								
Middletown	18,420								3	
Mount Vernon	42,726	8								
New York	5,620,048	1,132	67	8	30	3	13		1,275	1,100
Newburgh	30,366	6							3	
Niagara Falls	50,760	11			2		1		1	
North Tonawanda	15,482	3								
Olean	20,506	5								
Peekskill	15,868	6					1			
Poughkeepsie	35,000	7	1						4	
Rochester	285,750	60	2		2		2		23	4
Rome	26,341	3			2		1			
Saratoga Springs	13,181	3								
Schenectady	88,723	23	13	1	5		1		1	
Syracuse	171,717	40	1		1		11			
Troy	72,013	19			2					1
White Plains	21,031	6								1
Yonkers	100,176	23	4	1			2			
North Carolina:										
Durham	21,719	5	5						1	1
Raleigh	24,418	4								
Rocky Mount	12,742	1								
Salisbury	13,884	5								
Wilmington	33,372	4	3				1			
Winston-Salem	48,395	16	3						3	1

1 Pulmonary only.

**CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.**  
**DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.**

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>North Dakota:</b>										
Fargo.....	21,061	9								
Grand Forks.....	14,010				1					
<b>Ohio:</b>										
Akron.....	208,435		3				2		2	
Barberton.....	18,811	5							1	1
Bucyrus.....	10,425	0								
Cambridge.....	13,104	6								
Canton.....	87,091	7	1		1		1			
Chillicothe.....	15,831	3								
Cincinnati.....	401,247	120	4		2		4		11	13
Cleveland.....	796,841	164	29	1	8	1	14		31	11
Cleveland Heights.....	15,236		2	1					2	
Dayton.....	152,559	40	2				6		4	
East Cleveland.....	27,292	7	1							
East Youngstown.....	11,237	2				1				1
Findlay.....	17,021	3								
Fremont.....	12,468	2								
Kenmore.....	12,683								1	
Lancaster.....	14,706	4							1	1
Lima.....	41,326	7							1	1
Lorain.....	37,295		1						4	
Mansfield.....	27,824	5							2	
Martins Ferry.....	11,634	3					1			
Middletown.....	23,594	5								
Newark.....	26,718	8								1
Niles.....	13,080	1								1
Norwood.....	24,966	2							1	
Piqua.....	15,044	5								1
Salem.....	10,305	1								
Salem.....	10,305	1								
Sandusky.....	22,897	7								
Springfield.....	60,840	14					1			
Steubenville.....	28,508	5								
Tiffin.....	14,375	5					2			
Toledo.....	243,164	59	33	2	2		7			4
Youngstown.....	132,358	31	18	2	3	1				2
Zanesville.....	29,569	7								2
<b>Oklahoma:</b>										
Oklahoma.....	91,295	18	3				7			3
Tulsa.....	72,075						1			
<b>Oregon:</b>										
Portland.....	258,288	40	5		2		2		7	2
<b>Pennsylvania:</b>										
Philadelphia.....	1,823,779	407	23	1	5		8	1	59	29
Pittsburgh.....	588,343	106	20	2	6	1	15	2		6
<b>Rhode Island:</b>										
Cranston.....	29,407	2								
Cumberland (town).....	10,077	4	1							
East Providence (town).....	21,793		1							
Newport.....	30,255	6	1				1			1
Pawtucket.....	64,248	21	1							
Providence.....	237,595	50	2		5	1	2			7
<b>South Carolina:</b>										
Charleston.....	67,957	16	1		2		1			2
Columbia.....	37,524	12			7		1		3	1
Greenville.....	23,127	8	1		1		2			1
<b>South Dakota:</b>										
Sioux Falls.....	25,202	3					1			
<b>Tennessee:</b>										
Knoxville.....	77,813				1				3	3
Memphis.....	162,351	58	3		2		1		7	3
Nashville.....	118,342	34							3	4
<b>Texas:</b>										
Austin.....	34,876	9	1						2	3
Beaumont.....	40,422	10								
Cornus Christi.....	10,522	2								
Dallas.....	158,976	31	5	1	3				2	
El Paso.....	77,560	19			2				6	8
Fort Worth.....	106,482	13							4	
Galveston.....	44,255	18			1		1			3
Houston.....	138,276	40	2				1			4
San Antonio.....	161,379	39	1				1			6
Waco.....	38,800	9								
<b>Utah:</b>										
Provo.....	10,303	8								
Salt Lake City.....	118,110	19	2		2		3			

## CITY REPORTS FOR WEEK ENDED AUGUST 25, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Vermont:										
Burlington.....	22,779	5	1				1			
Virginia:										
Alexandria.....	18,060	7								
Charlottesville.....	10,688	9					1			
Danville.....	21,539									
Lynchburg.....	30,970	8								1
Norfolk.....	115,777				2		1		4	2
Petersburg.....	31,012	5	1				1			1
Richmond.....	171,667	52	2		5		1		6	3
Roanoke.....	50,842	10	3		1				2	
Washington:										
Bellevue.....	25,585						1			
Seattle.....	315,312		1				7			
Spokane.....	104,437		5		1		1			
West Virginia:										
Bluefield.....	15,282	2					1			
Charleston.....	39,003	13	3				3		1	
Clarksburg.....	27,869	3			1		1			
Fairmont.....	17,851		1				1			
Huntington.....	50,177	23	1				1			
Parkersburg.....	20,050	6	1							
Wheeling.....	56,208	15	1				9		1	2
Wisconsin:										
Appleton.....	19,561	3			1					
Ashland.....	11,334	5					1	1		
Beloit.....	21,284	2					1			
Eau Claire.....	20,906				7					
Fond du Lac.....	23,427	5							1	1
Green Bay.....	31,017		2		1		2			
Janesville.....	18,298	5					2			
Kenosha.....	40,472	4								
Manitowoc.....	17,563		1				1			
Marinette.....	13,610		1							
Milwaukee.....	457,147	98	8	1	1		10		17	3
Oshkosh.....	33,162	9								
Racine.....	58,593	12					1			1
Sheboygan.....	30,955	6	7				1			
Superior.....	39,621	10								1
West Allis.....	13,745						1			

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923.

## ANTHRAX.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Alabama:				Massachusetts:			
Mobile County.....		1		Middlesex County.....		1	
California:				New Jersey:			
Humboldt County.....	1			Camden County.....			2
Trinity County.....		1		New York:			
Total.....	1	1		Fulton County.....		1	1
Illinois:				New York City.....		1	1
Cook County.....			1	Total.....		2	2
Louisiana:				Pennsylvania:			
Assumption Parish.....			1	Philadelphia.....	3	1	2
Beauregard Parish.....			1	Place not stated.....			2
Vermilion Parish.....			1	Total.....	3	1	4
Total.....			3				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## CEREBROSPINAL MENINGITIS (EPIDEMIC).

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Arkansas:</b>				<b>Indiana—Continued.</b>			
Benton County.....	1			Dekalb County.....			1
Carroll County.....	1			Delaware County.....			2
Clay County.....		1		Fountain County.....			2
Mississippi County.....			1	Greene County.....	1		
Montgomery County.....		1		Kosciusko County.....		1	
Sharp County.....		1		Lake County.....	2		
White County.....		2		Laporte County.....		1	
<b>Total.....</b>	<b>2</b>	<b>5</b>	<b>1</b>	Madison County.....	1		
<b>California:</b>				Marion County.....	1	1	
Alameda County.....	1		1	Monroe County.....		2	1
Fresno County.....	1	1	1	Parke County.....		1	
Kern County.....			2	Vigo County.....			1
Los Angeles County.....	5	2	1	Wabash County.....			2
Madera County.....			1	Washington County.....		1	1
Sacramento County.....		1		<b>Total.....</b>	<b>6</b>	<b>8</b>	<b>13</b>
San Bernardino County.....		1					
San Francisco County.....	5		1	<b>Iowa:</b>			
Santa Clara County.....			2	Louisa County.....	1		
Shasta County.....			1				
Sonoma County.....	3	1		<b>Kansas:</b>			
Stanislaus County.....			1	Barton County.....	1		
Tulare County.....		1		Crawford County.....	1		
<b>Total.....</b>	<b>15</b>	<b>7</b>	<b>11</b>	Morris County.....			1
<b>Colorado:</b>				Montgomery County.....		1	
Chaffee County.....			1	Wyandotte County.....			
Coffey County.....	1			<b>Total.....</b>	<b>2</b>	<b>2</b>	<b>1</b>
Pueblo County.....			1				
<b>Total.....</b>	<b>1</b>		<b>2</b>	<b>Louisiana:</b>			
<b>Connecticut:</b>				Caddo Parish.....		1	
Fairfield County.....	1	1	2	East Baton Rouge Parish.....	1		1
Hartford County.....	4	1	3	Jefferson Davis Parish.....	1		
New Haven County.....		6		Orleans Parish.....	1		1
Windham County.....		2		St. Landry Parish.....	1		
<b>Total.....</b>	<b>5</b>	<b>10</b>	<b>5</b>	St. Mary Parish.....		1	1
<b>Florida:</b>				Webster Parish.....			1
Duval County.....	2		2	<b>Total.....</b>	<b>4</b>	<b>2</b>	<b>4</b>
Marion County.....			1				
Monroe County.....		1		<b>Maine:</b>			
Polk County.....			1	Androscoggin County.....		3	
<b>Total.....</b>	<b>2</b>	<b>1</b>	<b>4</b>	Cumberland County.....	1		
<b>Hawaii:</b>				Franklin County.....	1		
Hawaii.....	1			Penobscot County.....	1		
Kauai.....	1			Sagadahoc County.....		1	
<b>Total.....</b>	<b>2</b>			<b>Total.....</b>	<b>3</b>	<b>4</b>	<b>(1)</b>
<b>Illinois:</b>				<b>Maryland:</b>			
Clark County.....		1		Anne Arundel County.....			1
Cook County.....	10	4	6	Carroll County.....		1	
Gallatin County.....	1			<b>Total.....</b>		<b>1</b>	<b>1</b>
Henry County.....	1						
Johnson County.....	1			<b>Massachusetts:</b>			
Lake County.....		1		Berkshire County.....			1
Mercer County.....		2		Bristol County.....	3		
Peoria County.....	1	1		Essex County.....	3	4	
Rock Island County.....	1			Franklin County.....	2	1	
St. Clair County.....	1			Middlesex County.....	2	2	1
Winnebago County.....	1			Norfolk County.....	1		
<b>Total.....</b>	<b>17</b>	<b>9</b>	<b>6</b>	Suffolk County.....	1	4	3
<b>Indiana:</b>				Worcester County.....	1		
Blackford County.....	1			<b>Total.....</b>	<b>11</b>	<b>11</b>	<b>5</b>
Clay County.....			3				
Clinton County.....		1		<b>Minnesota:</b>			
				Clay County.....		1	
				Hennepin County.....			3
				Morrison County.....	1		
				Pipestone County.....		1	
				Polk County.....			1
				Ramsey County.....	1	2	

<sup>1</sup> Report for June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1922—Continued.

## CEREBROSPINAL MENINGITIS—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Minnesota—Continued.				Ohio—Continued.			
St. Louis County.....			3	Medina County.....			1
Sibley County.....		1		Montgomery County.....		1	
Total.....	2	5	7	Morrow County.....			1
Montana:				Summit County.....	1		
Cascade County.....	1			Total.....	6	4	6
Flathead County.....		1		Oklahoma:			
Total.....	1	1		Haskell County.....		1	
Nebraska.....		1	2	Pennsylvania:			
New Jersey:				Allegheny County.....	2	2	1
Bergen County.....		1		Armstrong County.....	1		
Burlington County.....		1		Bradford County.....		1	
Camden County.....			1	Luzerne County.....	1		
Cumberland County.....	1			McKean County.....			1
Essex County.....	7	3	3	Northampton County.....	2		
Hudson County.....	1	3	1	Northumberland County.....		1	
Hunterdon County.....	1			Philadelphia County.....	2	6	4
Middlesex County.....		1	2	Schuylkill County.....	1		
Morris County.....	1	1		Washington County.....		1	
Passaic County.....	1	1		York County.....			1
Union County.....	1	1		Total.....	9	11	7
Total.....	12	12	7	Rhode Island:			
New Mexico:				Providence County.....	1	3	
Colfax County.....	1			South Carolina:			
New York:				Darlington County.....		1	1
Albany County.....		1	2	South Dakota:			
Broome County.....	1			Beadle County.....	1		
Cayuga County.....		1		Bon Homme County.....	1		
Chautauqua County.....	1	1	1	Clay County.....	1		
Cortland County.....			1	Davison County.....		1	
Erle County.....	3		1	Day County.....	1		
Herkimer County.....	1			Edmunds County.....		1	
Montgomery County.....		2		Grant County.....	1		
New York City.....	14	17	7	Hutchinson County.....		1	
Niagara County.....		2	2	Pennington County.....	1		
Oneida County.....		1		Total.....	6	3	
Ontario County.....		1		Virginia:			
Rensselaer County.....	1		1	Accomac County.....	1		
Sullivan County.....		1		Allegheny County.....	1		1
Warren County.....	1			Bland County.....			
Westchester County.....	1			Buchanan County.....		1	2
Total.....	23	27	15	Cumberland County.....			1
North Carolina:				Elizabeth City County.....			1
Beaufort County.....		1		Fauquier County.....		1	1
Caswell County.....			1	Floyd County.....		1	1
Cumberland County.....		2		Greene County.....			1
Jackson County.....	1			Greensville County.....		1	
Martin County.....			1	Hanover County.....		1	
Perquimans County.....	1			Lee County.....	3		1
Pitt County.....			1	Loudoun County.....	1		
Robeson County.....		1	1	Louisa County.....	1		
Rowan County.....			1	Lumenburg County.....		1	
Sampson County.....			1	Mecklenburg County.....		1	2
Stokes County.....	1			Nelson County.....	1	1	
Wake County.....			1	Norfolk County.....			1
Total.....	3	4	7	Patrick County.....			1
Ohio:				Prince Edward County.....	2		
Ashtabula County.....			1	Roanoke County.....	1		
Brown County.....	1			Rockbridge County.....	2		
Columbiana County.....	1			Scott County.....		1	
Cuyahoga County.....	1	2	3	Smyth County.....	1		
Hamilton County.....	1			Stafford County.....		1	
Jefferson County.....		1		Washington County.....		1	
Lorain County.....	1			Total.....	14	10	14



## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## CEREBROSPINAL MENINGITIS—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Washington:				Wisconsin:			
King County.....	1			Barron County.....			1
Pierce County.....			1	Eau Claire County.....			1
Spokane County.....			1	Green County.....			2
Whitman County.....	1			Juneau County.....			1
Total.....	2		2	Marathon County.....	1		
West Virginia:				Milwaukee County.....			3
Logan County.....		1		Oneida County.....	1		
				Outagamie County.....	1		
				Waukesha County.....	3		
				Total.....	6		8

## INFLUENZA.

Alabama:				Alabama—Continued.			
Autauga County.....	11	1		Tallapoosa County.....	34	5	5
Baldwin County.....	24	6		Tuscaloosa County.....	16	7	
Barbour County.....	104	10		Walker County.....	22	5	
Bibb County.....	14	2		Washington County.....	9	3	
Blount County.....	4	5		Wilcox County.....		7	
Bullock County.....	10	10		Winston County.....	5	3	
Butler County.....	1	1		Total.....	1,521	350	115
Calhoun County.....	44	7	4	Arizona:			
Chambers County.....	18	32	4	Cochise County.....	1		
Cherokee County.....	14	3		Arkansas:			
Chilton County.....	8	2		Arkansas County.....	4		
Choctaw County.....			2	Ashley County.....	4	14	
Clarke County.....	9	16	2	Benton County.....	31	4	3
Clay County.....	5	2		Bradley County.....	6		
Cleburne County.....	2	12		Calhoun County.....	98	9	
Coffee County.....	28	12		Carroll County.....	23	13	6
Colbert County.....	1			Cleveland County.....	1		
Conecuh County.....	17	5		Crawford County.....		2	
Coosa County.....		2		Drew County.....	79	9	1
Orenshaw County.....	36	1		Franklin County.....	36	3	
Cullman County.....			75	Hempstead County.....	5	2	
Dale County.....	6			Hot Spring County.....	53	17	
Dallas County.....	47	7		Izard County.....	14		
DeKalb County.....	3	1		Jefferson County.....		5	
Elmore County.....	91	13		Lafayette County.....	1	5	
Escambia County.....	10	1	4	Lee County.....	14	21	1
Etowah County.....	142	18	1	Logan County.....	17		
Fayette County.....	16			Leno County.....	8		
Franklin County.....	28	2		Miller County.....	3		
Geneva County.....	8	7	6	Mississippi County.....			1
Henry County.....	12	4	1	Monroe County.....	5	2	1
Houston County.....	70	8	1	Montgomery County.....	5	2	1
Jackson County.....	4	3		Ouachita County.....	53	56	8
Jefferson County.....	284	42	6	Perry County.....		1	
Lamar County.....	1			Pike County.....	78	1	
Lauderdale County.....	17			Pulaski County.....	16	5	1
Lawrence County.....	7	18		St. Francis County.....	9		
Lee County.....	10	7		Scott County.....		2	
Limestone County.....	50	3	2	Sebastian County.....		13	
Lowndes County.....	5			Union County.....	18	2	
Macon County.....	1			Washington County.....	1		
Madison County.....	48	1		White County.....		13	
Marango County.....	6	8	1	Woodruff County.....	30	20	1
Marion County.....	1			Total.....	607	221	24
Marshall County.....	14	6		California:			
Mobile County.....	38	10		Alameda County.....	16	2	
Monroe County.....	10			Amador County.....	1		
Montgomery County.....	7		1	Butte County—			
Morgan County.....	36	5		Oroville.....	11		1
Perry County.....	4	13		Scatterings.....	9	2	
Pickens County.....	12	2		Calaveras County.....	5	1	
Pike County.....		6		Contra Costa County.....	3	1	
Randolph County.....	39			Fresno County.....	5		
Russell County.....	4			Humboldt County.....	22		
St. Clair County.....	2	1					
Shelby County.....	16	11					
Sumter County.....	36	3					
Talladega County.....		3					

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## INFLUENZA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
California—Continued.				District of Columbia.....	18	6	2
Kern County.....	1	6	1	Florida:			
Kings County—				Alachua County.....		1	3
Lemoore.....		236		Bay County.....	3	7	1
Scattering.....		182		Bradford County.....		2	3
Los Angeles County—				Broward County.....		2	
Avalon.....	11			Citrus County.....			1
Los Angeles.....	83	34	25	Clay County.....		1	
Scattering.....	27	12	6	Columbia County.....		3	
Marin County.....	1	2		Dade County.....		1	1
Mariposa County.....			2	De Soto County.....			1
Mendocino County.....	1			Duval County.....	5	4	
Merced County—				Escambia County.....		7	1
Merced.....	28	13		Gadsden County.....	11	5	2
Scattering.....	14	2	1	Glades County.....		1	
Mono County.....			3	Hamilton County.....		1	1
Nevada County.....	7			Highlands County.....		1	
Orange County—				Hillsborough County.....		6	1
Anaheim.....	11			Jackson County.....		2	
Scattering.....	20	5		Jederson County.....		7	1
Placer County.....	4			Lafayette County.....			1
Plumas County.....		38		Lake County.....		6	
Riverside County.....	14			Lee County.....		4	
Sacramento County.....	3	5		Leon County.....		2	
San Bernardino County.....	2	1		Levy County.....		5	
San Diego County—				Madison County.....		2	
San Diego.....	51	5	3	Manatee County.....		1	
Scattering.....	1			Marion County.....		5	
San Francisco County.....	51	10	2	Monroe County.....		5	
San Joaquin County—				Nassau County.....		2	
Stockton.....	19	3		Okaloosa County.....		3	
Scattering.....	5		14	Okeechobee County.....		1	
San Luis Obispo County.....	4			Orange County.....		6	
Santa Barbara County—				Osceola County.....		1	
Lompoc.....			14	Palm Beach County.....		5	1
Santa Clara County.....	3			Pinellas County.....	1	4	
Santa Cruz County.....	1			Polk County.....		2	
Shasta County.....	14	2		Putnam County.....	2	2	
Sierra County.....	5	10		St. Johns County.....	3	2	1
Siskiyou County.....	29	10		Santa Rosa County.....			1
Solano County.....	1	1		Seminole County.....		3	
Sonoma County.....	2	2	1	Suwannee County.....		1	
Stanislaus County.....	10	6	2	Volusia County.....		7	
Sutter County.....	7			Walton County.....		1	
Tehama County.....	4			Washington County.....			1
Tulare County.....	3	2					
Ventura County.....	1	1		Total.....	25	120	21
Total.....	510	599	75	Hawaii:			
Colorado:				Hawaii.....	3	17	3
Arapahoe County.....		1		Kauai.....	24	788	457
Archuleta County.....	1			Maui.....	7	1	
Boulder County.....	7			Molokai.....	1		
Fremont County.....	2	1		Oahu.....	16	162	30
Garfield County.....	4			Total.....	51	938	490
San Miguel County.....		1		Illinois:			
Weld County.....	1			Adams County.....	8		1
Yuma County.....	1			Alexander County.....	5	1	
Total.....	16	3		Bond County.....	1		
Connecticut:				Brown County.....	3		
Fairfield County.....	9	1		Bureau County.....	8	1	
Hartford County.....	11	3		Carroll County.....	3		
Litchfield County.....		2		Cass County.....	1		
New Haven County.....	10	8	2	Champaign County.....	6	1	
New London County.....	14	2		Christian County.....	10		
Windham County.....	5			Clark County.....	8		
Total.....	49	16	2	Clay County.....	4		
Delaware:				Clinton County.....	2		
New Castle County.....	1			Coles County.....	6	1	
Sussex County.....			4	Cook County.....	164	63	8
Total.....	1		4	Crawford County.....	1	2	
				Cumberland County.....	3		
				De Kalb County.....	2	3	
				Douglas County.....	8	2	
				Du Page County.....	5	1	

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## INFLUENZA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Illinois—Continued.</b>				<b>Indiana:</b>			
Edgar County.....	2	.....	.....	Blackford County.....	1	.....	.....
Fayette County.....	2	2	.....	Clark County.....	4	.....	.....
Ford County.....	.....	1	.....	Crawford County.....	1	.....	.....
Franklin County.....	4	2	.....	Grant County.....	2	.....	.....
Fulton County.....	12	.....	.....	Martin County.....	43	15	2
Gallatin County.....	6	.....	.....	Switzerland County.....	14	4	.....
Greene County.....	1	.....	.....	Total.....	65	19	2
Grundy County.....	1	.....	.....	<b>Iowa:</b>			
Hamilton County.....	3	.....	.....	Adair County.....	5	.....	.....
Hancock County.....	7	2	.....	Mills County.....	2	.....	.....
Henderson County.....	1	.....	.....	Monona County.....	3	.....	.....
Henry County.....	2	.....	.....	Total.....	10	.....	.....
Iroquois County.....	3	.....	.....	<b>Kansas:</b>			
Jackson County.....	14	.....	.....	Atchison County.....	1	.....	.....
Jasper County.....	2	.....	.....	Chase County.....	1	.....	.....
Jefferson County.....	2	.....	.....	Cherokee County.....	1	.....	.....
Jersey County.....	1	.....	.....	Cheyenne County.....	.....	1	.....
Jo Daviess County.....	5	.....	.....	Comanche County.....	.....	.....	4
Johnson County.....	1	4	.....	Crawford County.....	1	.....	1
Kane County.....	1	.....	.....	Decatur County.....	2	.....	.....
Kankakee County.....	5	2	.....	Doniphan County.....	2	.....	.....
Knox County.....	6	.....	1	Ford County.....	2	.....	.....
La Salle County.....	7	2	.....	Franklin County.....	.....	1	.....
Lake County.....	6	2	.....	Marion County.....	3	.....	.....
Lawrence County.....	3	.....	.....	Marshall County.....	.....	2	.....
Lee County.....	1	.....	.....	Montgomery County.....	1	.....	.....
Livingston County.....	7	2	.....	Osage County.....	4	.....	.....
Logan County.....	9	.....	.....	Phillips County.....	.....	2	.....
McDonough County.....	4	1	.....	Republic County.....	3	.....	.....
McHenry County.....	2	.....	.....	Russell County.....	4	.....	.....
McLean County.....	3	.....	.....	Sumner County.....	7	.....	.....
Marion County.....	7	1	.....	Wyandotte County.....	.....	1	.....
Maroun County.....	18	1	.....	Total.....	33	7	5
Macoupin County.....	29	.....	.....	<b>Louisiana:</b>			
Madison County.....	18	.....	.....	Acadia Parish.....	2	6	.....
Marion County.....	3	.....	.....	Allen Parish.....	22	.....	.....
Marshall County.....	3	.....	.....	Assumption Parish.....	1	.....	.....
Massac County.....	3	.....	.....	Avoyelles Parish.....	12	.....	.....
Menard County.....	1	.....	.....	Caddo Parish.....	5	.....	2
Mercer County.....	5	.....	.....	Calcasieu Parish.....	1	.....	4
Montgomery County.....	11	.....	.....	Caldwell Parish.....	1	.....	.....
Morgan County.....	2	.....	1	Claiborne Parish.....	1	.....	.....
Moultrie County.....	1	.....	.....	De Soto Parish.....	2	.....	.....
Ogle County.....	2	.....	.....	East Baton Rouge Parish.....	.....	1	.....
Peoria County.....	5	.....	.....	East Carroll Parish.....	25	17	1
Perry County.....	5	.....	.....	East Feliciana Parish.....	181	3	.....
Piatt County.....	2	.....	.....	Franklin Parish.....	4	.....	.....
Pike County.....	4	.....	.....	Jefferson Davis Parish.....	2	.....	.....
Pope County.....	1	.....	.....	Lafayette Parish.....	5	.....	.....
Pulaski County.....	5	.....	.....	Natchitoches Parish.....	3	.....	.....
Randolph County.....	4	.....	.....	Orleans Parish.....	34	4	5
Richland County.....	2	.....	.....	Plaquemines Parish.....	2	25	.....
Rock Island County.....	3	.....	.....	Pointe Coupee Parish.....	29	.....	.....
St. Clair County.....	24	.....	.....	Richland Parish.....	3	.....	50
Saline County.....	1	2	.....	Sabine Parish.....	3	.....	.....
Sangamon County.....	10	3	1	St. Mary Parish.....	25	.....	.....
Schuyler County.....	6	.....	.....	Terrebonne Parish.....	24	1	.....
Scott County.....	1	1	2	Vermilion Parish.....	5	.....	.....
Shelby County.....	3	.....	.....	Washington Parish.....	1	9	.....
Stark County.....	1	.....	.....	Webster Parish.....	6	.....	.....
Stephenson County.....	2	.....	.....	Total.....	399	66	62
Tazewell County.....	1	1	.....	<b>Maine.....</b>			
Union County.....	9	1	.....		64	7	(1)
Vermilion County.....	31	1	.....				
Warren County.....	1	.....	.....				
Washington County.....	1	.....	.....				
White County.....	2	1	.....				
Whiteside County.....	2	.....	.....				
Will County.....	9	.....	.....				
Williamson County.....	9	.....	.....				
Winnebago County.....	12	2	.....				
Woodford County.....	.....	1	.....				
Total.....	627	110	14				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## INFLUENZA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Maryland:</b>				<b>Mississippi—Continued.</b>			
Allegany County.....	16	4	1	Copiah County.....	168	63	5
Anne Arundel County.....	79	2	7	Covington County.....	75	8	7
Baltimore City.....	17	2	4	De Soto County.....	35	3	
Baltimore County.....	4			Forrest County.....	7		
Calvert County.....	13	1		Franklin County.....	5		
Caroline County.....	13	2		George County.....	27		
Carroll County.....	2	1		Grenada County.....		36	
Cecil County.....	23	2		Greene County.....	66	30	9
Charles County.....	12	4	7	Harrison County.....	547	71	5
Dorchester County.....	8	1	1	Holmes County.....	71		
Frederick County.....	50	11		Humphreys County.....	6		
Garrett County.....	75	2	3	Issaquena County.....	6		
Harford County.....	9		3	Itawamba County.....	5	3	
Howard County.....			2	Jackson County.....	14	5	
Kent County.....	16	2		Jasper County.....	18	30	14
Montgomery County.....	11	6	1	Jefferson Davis County.....	72	25	8
Prince Georges County.....	2			Jones County.....	108	2	
Queen Annes County.....	22			Kemper County.....	159	43	6
Somerset County.....	4			Lafayette County.....	10		
Talbot County.....				Lamar County.....	84		
Washington County—				Lauderdale County.....	12	4	
Hagerstown.....	12	6	1	Lawrence County.....	5	2	
Scattering.....	6			Leake County.....	196	42	13
Wicomico County.....	4			Lee County.....	107	31	1
Worcester County.....	1			Leflore County.....	16	10	1
<b>Total.....</b>	<b>399</b>	<b>69</b>	<b>30</b>	Lincoln County.....	27	1	
<b>Massachusetts:</b>				Lowndes County.....	31		
Barnstable County.....	2			Madison County.....	42	58	2
Berkshire County.....	2			Marion County.....	30	20	
Bristol County.....	9	6	1	Marshall County.....	108	21	4
Dukes County.....	4			Monroe County.....	49	15	
Essex County.....	8	4	1	Montgomery County.....	5		
Franklin County.....		1		Nashoba County.....	40		
Hampden County.....		3	3	Newton County.....	116	5	
Middlesex County.....	21	3	4	Noxubee County.....	25		60
Norfolk County.....	2		2	Oktibbeha County.....	60	8	2
Plymouth County.....	1			Panola County.....	66	36	36
Suffolk County—				Pearl River County.....	222	29	5
Boston.....	13	1		Pike County.....	12		
Scattering.....	2			Pontotoc County.....	10		6
Worcester County.....	15	4		Prentiss County.....			
<b>Total.....</b>	<b>79</b>	<b>22</b>	<b>11</b>	Quitman County.....	65	19	
<b>Michigan.....</b>	<b>49</b>	<b>28</b>		Rankin County.....	6		
<b>Minnesota:</b>				Sharkey County.....	15	17	
Freeborn County.....	1			Scott County.....	61		
Lac Qui Parle County.....	1			Stone County.....	4		
Marshall County.....		1		Sunflower County.....	350	29	
Olmsted County.....	1	4		Tallahatchie County.....	37		
Otter County.....	1			Tate County.....	74	14	
Redwood County.....	1			Tippah County.....	53		
Rice County.....		1		Tishomingo County.....	98	10	
St. Louis County.....	1			Tunica County.....	68	10	
Scott County.....	1			Walthall County.....	35		1
Stearns County.....	1			Washington County.....		4	2
Steele County.....	1	1		Wayne County.....	25		
Todd County.....		1		Webster County.....	23		
<b>Total.....</b>	<b>9</b>	<b>8</b>		Wilkinson County.....	17		2
<b>Mississippi:</b>				Yalobusha County.....	134	43	2
Alcorn County.....	104			Yazoo County.....	145	34	
Amite County.....	38			<b>Total.....</b>	<b>4,901</b>	<b>951</b>	<b>208</b>
Attala County.....	4			<b>Montana.....</b>	<b>35</b>	<b>30</b>	
Balivar County.....	507	124	17	<b>Nebraska:</b>			
Carroll County.....	19			Lincoln County.....	2		
Chickasaw County.....	52	12		Saline County.....	26		
Choctaw County.....	26	17		<b>Total.....</b>	<b>28</b>		
Claiborne County.....	6			<b>New Jersey:</b>			
Clarke County.....	53			Atlantic County.....	1		
Clay County.....	28	10		Bergen County.....	2	1	
Coahoma County.....	192	8		Burlington County.....	6		
				Camden County.....	1		
				Essex County.....	40	20	3

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## INFLUENZA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>New Jersey—Continued.</b>				<b>New York—Continued.</b>			
Hudson County.....	8	4	.....	Tioga County.....	7	.....	.....
Mercer County.....	64	20	.....	Tompkins County.....	2	.....	.....
Monmouth County.....	3	1	.....	Ulster County.....	2	.....	.....
Morris County.....	1	.....	.....	Warren County.....	1	.....	.....
Passaic County.....	8	4	.....	Washington County.....	2	.....	.....
Salem County.....	1	.....	.....	Wayne County.....	9	12	1
Somerset County.....	22	5	.....	Westchester County.....	3	2	1
Sussex County.....	1	.....	.....	Wyoming County.....	7	.....	.....
<b>Total.....</b>	<b>158</b>	<b>55</b>	<b>3</b>	State institutions.....	18	.....	.....
<b>New Mexico</b>				<b>Total.....</b>	<b>785</b>	<b>188</b>	<b>65</b>
Curry County.....	5	1	.....	<b>North Dakota:</b>			
Dona Ana County.....	.....	1	.....	Trail County.....	5	.....	.....
Grant County.....	1	1	.....	<b>Ohio:</b>			
Harding County.....	60	.....	.....	Ashland County.....	.....	1	.....
McKinley County.....	31	.....	.....	Champaign County.....	.....	1	.....
Mora County.....	.....	.....	1	Clinton County.....	3	1	.....
Otero County.....	2	.....	.....	Coshocton County.....	2	.....	1
San Juan County.....	2	.....	.....	Cuyahoga County.....	23	11	1
<b>Total.....</b>	<b>101</b>	<b>3</b>	<b>1</b>	Darke County.....	1	2	.....
<b>New York:</b>				Defiance County.....	2	.....	.....
Albany County—				Franklin County.....	7	1	.....
Albany.....	25	11	2	Guernsey County.....	1	.....	.....
Scatterings.....	4	.....	.....	Hamilton County.....	3	1	.....
Allegany County—				Hancock County.....	1	.....	.....
Rushford Town.....	21	6	.....	Lake County.....	2	2	.....
Scatterings.....	13	10	4	Lorain County.....	5	2	1
Broome County.....	14	1	2	Mahoning County.....	5	.....	.....
Cattaraugus County.....	2	3	.....	Marion County.....	1	.....	.....
Cayuga County.....	10	.....	.....	Medina County.....	1	2	.....
Chautauqua County—				Monroe County.....	1	.....	.....
Dunkirk.....	57	1	.....	Morgan County.....	8	.....	.....
Scatterings.....	11	4	1	Morrow County.....	1	.....	.....
Chemung County.....	3	.....	.....	Noble County.....	11	.....	.....
Chenango County.....	9	2	.....	Ottawa County.....	4	.....	.....
Columbia County.....	12	2	.....	Portage County.....	.....	2	.....
Delaware County.....	2	1	.....	Richland County.....	2	.....	.....
Dutchess County—				Scioto County.....	.....	.....	.....
Red Hook Town.....	27	.....	.....	Stark County.....	3	.....	1
Red Hook Village.....	17	.....	.....	Summit County.....	4	2	1
Scatterings.....	2	.....	.....	Trumbull County.....	1	.....	.....
Hamilton County.....	10	.....	.....	Wayne County.....	2	.....	.....
Herkimer County.....	2	1	.....	<b>Total.....</b>	<b>98</b>	<b>29</b>	<b>5</b>
Jefferson County.....	4	1	.....	<b>Oklahoma:</b>			
Livingston County.....	.....	2	.....	Carter County.....	10	.....	.....
Madison County.....	1	.....	.....	Cherokee County.....	74	.....	.....
Montgomery County.....	5	9	2	Choctaw County.....	29	.....	.....
Nassau County.....	13	.....	.....	Haskell County.....	371	.....	.....
New York City.....	303	102	38	Love County.....	11	.....	.....
Niagara County.....	5	1	.....	McIntosh County.....	60	.....	.....
Oneida County.....	6	1	.....	Mayes County.....	166	.....	.....
Onondaga County.....	1	.....	.....	Seminole County.....	1,800	.....	.....
Ontario County.....	1	.....	.....	Texas County.....	15	.....	.....
Orange County.....	2	1	2	Tillman County.....	1	.....	.....
Oswego County.....	2	1	.....	Woods County.....	66	.....	.....
Otsego County—				<b>Total.....</b>	<b>2,603</b>	<b>*154</b>	<b>(1)</b>
Hartwick Town.....	18	.....	.....	<b>Oregon</b>	<b>13</b>	.....	.....
Pittsfield Town.....	1	.....	.....	<b>Rhode Island:</b>			
Putnam County.....	18	3	2	Providence County.....	3	.....	.....
Rensselaer County.....	9	.....	.....	<b>South Carolina:</b>			
Rockland County.....	8	.....	.....	Aiken County.....	1	.....	.....
St. Lawrence County.....	12	.....	3	Chester County.....	24	.....	.....
Saratoga County—				Greenville County.....	2	.....	.....
Saratoga Springs.....	17	1	1	Lexington County.....	5	.....	.....
Malta Town.....	1	.....	.....	<b>Total.....</b>	<b>32</b>	.....	.....
Schenectady County.....	5	1	.....				
Schuyler County.....	3	1	.....				
Stauben County—							
Bradford Town.....	29	.....	.....				
Scatterings.....	6	3	.....				
Suffolk County—							
Riverhead Town.....	13	.....	.....				
Scatterings.....	10	5	6				

\* Report for June not received at time of going to press.

\* Counties not given.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## INFLUENZA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>South Dakota:</b>				<b>Virginia—Continued.</b>			
Bon Homme County.....	2			Rappahannock County..	32		
Deuel County.....	1			Richmond County.....	31		
Hughes County.....	45			Roanoke County.....		4	
Hutchinson County.....	6			Rockbridge County.....	91	16	7
Hyde County.....	7			Rockingham County.....	171	69	13
Jackson County.....	2			Russell County.....	11		
Spink County.....	1			Scott County.....	144	11	
Turner County.....	1			Shenandoah County.....	137	13	17
Union County.....		1		Smyth County.....	44	5	
Ziebach County.....	11		10	Southampton County.....	7	18	
<b>Total.....</b>	<b>76</b>	<b>1</b>	<b>10</b>	Spotsylvania County.....		1	
<b>Vermont.....</b>		<b>10</b>		Stafford County.....	16		
<b>Virginia:</b>				Sussex County.....	17		
Accomac County.....	107	4	11	Tazewell County.....	73	12	
Albemarle County.....	3			Warren County.....	38	21	
Alleghany County.....	59	10	25	Warwick County.....		10	
Amelia County.....	9			Washington County.....	48	26	8
Appomattox County.....	15			Westmoreland County.....	40	20	4
Augusta County.....	102	25	15	Wise County.....	268		
Bath County.....	3	11		Wythe County.....	55	3	2
Bedford County.....	37	5		<b>Total.....</b>	<b>3,261</b>	<b>676</b>	<b>189</b>
Bland County.....	60	10		<b>Washington.....</b>	<b>12</b>		
Botetourt County.....	22		3	<b>West Virginia.....</b>	<b>245</b>	<b>75</b>	<b>17</b>
Brunswick County.....	50	6		<b>Wisconsin:</b>			
Buchanan County.....	2			Adams County.....	12		
Buckingham County.....	17	2		Ashland County.....	4		
Campbell County.....	34	42		Barron County.....	7	2	
Caroline County.....	10	1	2	Bayfield County.....	8		1
Charles City County.....			1	Brown County.....	12		
Clarke County.....	19	5		Burnett County.....	3		
Craig County.....	6	10		Chippewa County.....	18	13	2
Culpeper County.....	19			Clark County.....	19		1
Cumberland County.....		6		Columbia County.....	3	4	
Dickenson County.....	26	2		Crawford County.....	26	4	1
Dinwiddie County.....	17	3		Dane County.....	19		
Essex County.....	2		2	Door County.....	2		
Fairfax County.....	25			Dunn County.....	2		
Fauquier County.....	118	7	6	Eau Claire County.....	4	1	
Floyd County.....	2	2	8	Fond du Lac County.....	1	17	
Franklin County.....	13			Grant County.....	35	2	
Frederick County.....	13		10	Green County.....	30	7	1
Giles County.....	27	13		Iron County.....	9		
Gloucester County.....	5			Jackson County.....		7	
Goochland County.....	15			Jefferson County.....	1	4	
Grayson County.....	18	10		Kenosha County.....	3		
Greensville County.....	2			La Crosse County.....	4		
Halifax County.....	69	6	2	Lafayette County.....	1		
Hanover County.....	38	16		Lincoln County.....	2		
Henrico County.....	65	31		Manitowoc County.....	1	9	
Henry County.....	19		6	Marathon County.....	34		
Highland County.....		5		Marinette County.....	18	2	
James City County.....	17			Milwaukee County.....	2		
King and Queen County.....		2		Monroe County.....	9	6	
King George County.....	33			Oconto County.....	1	6	
King William County.....	28	3		Pepin County.....	12		
Lancaster County.....	50	1		Pierce County.....	29	6	
Lee County.....	30	10	3	Polk County.....	6		
Loudoun County.....	77			Portage County.....	8	7	
Louisa County.....	12			Richland County.....	26	8	
Lunenburg County.....	21			Rush County.....	2		
Madison County.....	60	21	6	Sauk County.....	3		
Mathews County.....	18	24		Sawyer County.....	4		
Mecklenburg County.....	68	13	2	Shawano County.....	36	22	7
Middlesex County.....	14		2	Sheboygan County.....	4	5	
Montgomery County.....	190	11	10	Trempealeau County.....	4		
Nelson County.....	32	9		Vernon County.....	98	63	17
Northampton County.....	28	7		Vilas County.....			1
Northumberland County.....	73	1		Washburn County.....	26		
Nottoway County.....	31	25	4	Washington County.....	4		
Orange County.....	6	26		Waukesha County.....	62		3
Page County.....	35	5		Waupaca County.....	26		
Pittsylvania County.....	120	29		Waushara County.....	14		1
Powhatan County.....	19	2		Wood County.....	10		2
Prince Edward County.....	13	2	14	<b>Total.....</b>	<b>664</b>	<b>195</b>	<b>37</b>
Prince George County.....	4			<b>Wyoming:</b>			
Princess Anne County.....	2			Crook County.....		1	
Prince William County.....	34	20	6				
Pulaski County.....	25	4					

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## LEPROSY.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
California:				Hawaii:			
Alameda County.....		1		Hawaii.....	2	2	2
Contra Costa County.....			1	Maul.....	2	2	1
Los Angeles County.....	1			Oahu.....	3	3	5
Marin County.....		2		Total.....	7	7	8
Sacramento County.....	1	1	1	Illinois:			
San Francisco County.....		1	1	Cook County.....	1		
Santa Clara County.....		1		Louisiana:			
Place not stated.....			1	New Orleans.....	1		
Total.....	2	5	4	Maryland:			
District of Columbia.....		1		Baltimore.....			1
Florida:				Washington.....	1		
Dade County.....			1				
Hillsborough County.....			1				
Monroe County.....			1				
Pinellas County.....		1					
Total.....		1	3				

## LETHARGIC ENCEPHALITIS.

Alabama.....	1	2		Minnesota.....	13	2	2
Arkansas.....	1			Montana.....	3	2	
California.....	17	10	11	Nebraska.....	1		
Colorado.....		1		New Mexico.....			
Connecticut.....	14	6	6	New York.....	116	73	48
District of Columbia.....	1	2		Ohio.....	13	3	4
Florida.....		2		Oklahoma.....	2		
Illinois.....	19	7	11	Oregon.....	2		
Kansas.....	16	1	1	Pennsylvania.....	23	8	
Louisiana.....	3	1	1	South Dakota.....	1	2	1
Maryland.....	5	4	3	Washington.....			4
Massachusetts.....	23	15	8	Wisconsin.....	5	2	3

## MALARIA.

Alabama:				Alabama—Continued.			
Autauga County.....		4	6	Houston County.....	17	24	15
Baldwin County.....	11	5	6	Jackson County.....		1	
Barbour County.....		4	13	Jefferson County.....	9	20	20
Bibb County.....	2	4	5	Lamar County.....	3	4	5
Blount County.....		2		Lauderdale County.....	3	5	6
Bullock County.....	3	6	10	Lawrence County.....	2	21	12
Butler County.....		1		Limestone County.....	3	19	9
Calhoun County.....	2	4	5	Lowndes County.....	1	2	4
Chambers County.....	1			Macon County.....	2		
Cherokee County.....	1	3	5	Madison County.....	2	27	23
Chilton County.....			3	Marengo County.....	14	12	22
Choctaw County.....	4	9	10	Marshall County.....		1	
Clarke County.....	1	1	10	Mobile County.....	15	40	8
Clay County.....	2	1	1	Monroe County.....	1	3	7
Cleburne County.....		4	1	Montgomery County.....		1	3
Coffee County.....	1	4	8	Morgan County.....	19	10	5
Colbert County.....	4	5	9	Perry County.....		2	9
Conecuh County.....	1			Pickens County.....	1	8	4
Cosa County.....	2			Pike County.....		3	1
Covington County.....		51	22	Randolph County.....	4	1	1
Crenshaw County.....	1	11	5	Russell County.....		2	1
Cullman County.....			5	St. Clair County.....			3
Dale County.....	6	27	7	Shelby County.....	10	11	5
Dallas County.....	5	6	9	Sumter County.....	5	14	9
Elmore County.....	1			Tallahadega County.....	4	7	11
Escambia County.....		9	9	Tallapoosa County.....		1	3
Etowah County.....	3	6	18	Tuscaloosa County.....	3	2	6
Fayette County.....	14	6	9	Walker County.....	15	19	15
Franklin County.....	1	11	20	Washington County.....	7	12	18
Geneva County.....	9	13	19	Wilcox County.....		7	4
Greene County.....	8			Winston County.....	1	1	6
Hale County.....	7	4	9	Total.....	238	482	465
Henry County.....	7	1	4				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## MALARIA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Arkansas:</b>				<b>Delaware:</b>			
Ashley County.....	1	7	6	Kent County.....	2		
Baxter County.....			18	Sussex County.....	2	5	5
Benton County.....			1	<b>Total.....</b>	<b>4</b>	<b>5</b>	<b>5</b>
Bradley County.....	1			<b>Florida:</b>			
Calhoun County.....	2	2	1	Alachua County.....		1	
Carroll County.....		1	2	Bay County.....			1
Cleveland County.....	3	1	3	Bradford County.....			1
Craighead County.....		2		Brevard County.....		2	4
Crawford County.....		2	3	Broward County.....		2	
Cross County.....			1	Citrus County.....			2
Drew County.....	10	30	46	Clay County.....	1		2
Faulkner County.....			1	Columbia County.....		2	3
Franklin County.....	1	5	1	Dade County.....	1		1
Garland County.....	2			Duval County.....			
Greene County.....	1	7	13	Jacksonville.....	9	14	20
Hempstead County.....	4	7	4	Scattering.....	2	3	2
Hot Spring County.....		7	16	Escambia County.....	2	2	1
Howard County.....		1	4	Gadsden County.....			2
Independence County.....		34	33	Hardee County.....	1	2	1
Isard County.....	7	11	4	Hernando County.....			5
Jefferson County.....		1	3	Hillsborough County.....	2	5	2
Lafayette County.....			7	Holmes County.....		1	1
Lawrence County.....		5	4	Jackson County.....		1	
Lee County.....	3	4	7	Jefferson County.....			1
Logan County.....	2	2	1	Lake County.....		1	1
Loneke County.....	1	3		Leon County.....		2	6
Madison County.....		2	3	Levy County.....		2	1
Miller County.....	1	13		Madison County.....		2	
Mississippi County.....		1		Manatee County.....		1	
Monroe County.....		5	22	Marion County.....	1	2	1
Montgomery County.....	3	5	2	Nassau County.....			1
Ouachita County.....	34	72	75	Orange County.....	1	1	
Perry County.....		2	2	Pasco County.....		1	
Pike County.....		5	8	Pinellas County.....	1		
Pulaski County.....	21	19	9	Polk County.....	1	12	5
Randolph County.....	1			Futnam County.....	2	1	
St. Francis County.....	4	5	8	St. Johns County.....	1		1
Saline County.....		4	7	St. Lucie County.....			3
Scott County.....	1	1		Sarasota County.....		1	
Sebastian County.....		5	11	Seminole County.....	1	1	7
Sharp County.....		11	19	Sumter County.....	1	1	
Union County.....	15	20	32	Suwannee County.....		1	
Van Buren County.....		4	8	Taylor County.....			1
Washington County.....		1	1	Volusia County.....	1		1
White County.....		24	1	Washington County.....		1	
Woodruff County.....	1		10	<b>Total.....</b>	<b>28</b>	<b>65</b>	<b>77</b>
<b>Total.....</b>	<b>119</b>	<b>331</b>	<b>397</b>	<b>Illinois:</b>			
<b>California:</b>				Bureau County.....			1
Alameda County.....	1		1	Clinton County.....			1
Butte County.....		2	1	Cook County.....	1		1
Colusa County.....	2			Gallatin County.....	3	3	2
Fresno County.....	3	1	1	Madison County.....		1	
Kings County.....			2	Pulaski County.....	1		
Los Angeles County.....	1	1	2	St. Clair County.....	1		
Marin County.....			1	<b>Total.....</b>	<b>6</b>	<b>4</b>	<b>5</b>
Napa County.....		1		<b>Kansas:</b>			
Sacramento County.....	1			Butler County.....	1		
San Francisco County.....		2	1	Decatur County.....	1		
San Joaquin County.....	3	5		Leavenworth County.....			1
Shasta County.....		1		<b>Total.....</b>	<b>2</b>		<b>1</b>
Siskiyou County.....		1		<b>Louisiana:</b>			
Tulare County.....	1			Acadia Parish.....	1	2	4
Yuba County.....	2	3		Allen Parish.....		1	1
<b>Total.....</b>	<b>14</b>	<b>17</b>	<b>9</b>	Avoyelles Parish.....	10		
<b>Connecticut:</b>				Caddo Parish.....	2	4	10
Fairfield County.....			4	Calcasieu Parish.....		2	2
Hartford County.....			4	Caldwell Parish.....	6		1
New Haven County.....		2	1	Claiborne Parish.....			1
New London County.....			1				
<b>Total.....</b>		<b>2</b>	<b>10</b>				



## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## MALARIA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Louisiana—Continued.</b>				<b>Mississippi—Continued.</b>			
Concordia Parish.....	1			Coahoma County.....	124	238	262
De Soto Parish.....	5	5	3	Copiah County.....	37	119	124
East Baton Rouge Parish.....		1	1	Covington County.....	33	47	56
East Carroll Parish.....		13	6	De Soto County.....	33	74	79
East Feliciana Parish.....		1		Forrest County.....	29	25	49
Iberia Parish.....	2			Franklin County.....	20	46	49
Iberville Parish.....			38	George County.....	8	30	20
Jefferson Parish.....			1	Greene County.....	27	57	109
Lafayette Parish.....	1	1		Grenada County.....	17	15	50
Lafourche Parish.....			2	Hancock County.....	37	37	29
Livingston Parish.....			2	Harrison County.....	3		6
Morehouse Parish.....	4	1		Hinds County.....	122	133	165
Natchitoches Parish.....	4	1	5	Holmes County.....	193	199	308
Orleans Parish.....	5	3	6	Humphreys County.....	106		
Rapides Parish.....	2	2		Issaquena County.....	17	16	34
Richland Parish.....			8	Itawamba County.....	8	28	16
Sabine Parish.....	1		3	Jackson County.....	22	28	21
St. James Parish.....			1	Jasper County.....	31	41	30
St. Landry Parish.....		2		Jefferson County.....	15	41	77
St. Martin Parish.....	2		1	Jefferson Davis County.....	21	50	63
Tangipahoa Parish.....		2		Jones County.....	35	38	84
Terrebonne Parish.....	2	4	1	Kemper County.....	29	26	64
Union Parish.....		1		Lafayette County.....	74	85	85
Vermilion Parish.....			3	Lamar County.....	25	20	46
Washington Parish.....	4	12	16	Lauderdale County.....	28	26	46
<b>Total.....</b>	<b>48</b>	<b>58</b>	<b>116</b>	Lawrence County.....	46	86	87
<b>Maryland:</b>				Leake County.....	56	47	102
Allegany County.....		1		Lee County.....	95	117	176
Anne Arundel County.....		1		Leflore County.....	218	476	605
Baltimore City.....	1	3	3	Lincoln County.....	16	32	30
Baltimore County.....		1	1	Lowndes County.....	70	84	93
Caroline County.....		1		Madison County.....	12	32	23
Dorchester County.....	1			Marion County.....	36	43	44
Harford County.....			1	Marshall County.....	30	40	60
Kent County.....			1	Monroe County.....	169	245	272
St. Marys County.....	1			Montgomery County.....	55	50	80
Somerset County.....		3		Neshoba County.....	26	47	
Talbot County.....			2	Newton County.....	10	11	32
Wicomico County.....				Noxubee County.....	30	35	64
Salisbury.....	4	11	3	Oktibbeha County.....	95	61	86
Scattering.....	1		3	Panola County.....	57	53	112
Worcester County.....	1	1		Pearl River County.....	37	22	41
<b>Total.....</b>	<b>9</b>	<b>22</b>	<b>14</b>	Perry County.....	8	20	18
<b>Massachusetts:</b>				Pike County.....	21	73	114
Hampden County.....		1		Pontotoc County.....	16	93	61
Middlesex County.....	2			Prentiss County.....	20	25	36
Norfolk County.....			1	Quitman County.....	211	141	290
Plymouth County.....	2			Rankin County.....	11	26	37
Suffolk County.....	1	1	1	Scott County.....	69	84	57
<b>Total.....</b>	<b>5</b>	<b>2</b>	<b>2</b>	Sharkey County.....	66	83	180
<b>Michigan:</b>				Simpson County.....	40	30	51
Muskegon County.....			1	Smith County.....	22	37	22
Saginaw County.....		1		Stone County.....	12	8	24
<b>Total.....</b>		<b>1</b>	<b>1</b>	Sunflower County.....	266	343	462
<b>Mississippi:</b>				Tallahatchie County.....	127	134	172
Adams County.....	15	30	54	Tate County.....	130	136	150
Alcorn County.....	37	60	65	Tippah County.....		69	90
Amite County.....	32	52	55	Tishomingo County.....	54	36	95
Attala County.....	105	72	92	Tunica County.....	110	102	244
Benton County.....	20	28	18	Union County.....	31	31	49
Bolivar County.....	527	530	958	Walthall County.....	6	8	10
Calhoun County.....		17	44	Warren County.....	117	104	91
Carroll County.....	84	68	74	Washington County.....	142	189	247
Chickasaw County.....	31	33	45	Wayne County.....	30	60	60
Choctaw County.....	21	16	17	Webster County.....	29	27	76
Claiborne County.....	19	42	45	Wilkinson County.....	27	24	30
Clarke County.....	63	69	48	Winston County.....	104	100	160
Clay County.....	42	50	84	Yalobusha County.....	47	59	89
				Yazoo County.....	159	163	227
				<b>Total.....</b>	<b>5,073</b>	<b>6,194</b>	<b>8,520</b>
<b>New Jersey:</b>				<b>New Jersey:</b>			
				Atlantic County.....		1	
				Bergen County.....			1
				Essex County.....			4
				Hudson County.....			1

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## MALARIA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>New Jersey—Continued.</b>				<b>Virginia—Continued.</b>			
Mercer County.....			1	Charles City County.....	2	3	3
Passaic County.....		1	10	Chesterfield County.....		3	2
Union County.....		2	1	Cumberland County.....			3
<b>Total.....</b>		4	18	Dinwiddie County.....		6	
<b>New York:</b>				Elizabeth City County..	1	4	1
Dutchess County.....	1		3	Essex County.....	12		
New York City.....	6	6	6	Franklin County.....	1		
Onondaga County.....		2		Gloucester County.....	1	2	6
Putnam County.....	1	4		Goochland County.....		1	
Rockland County.....	1		3	Greensville County.....	10	8	28
Sullivan County.....	1			Hallfax County.....	2	4	2
Wayne County.....		1		Hanover County.....	4	11	2
Westchester County.....		4		Henrico County.....	2	7	5
<b>Total.....</b>	10	17	12	Henry County.....			1
<b>Ohio:</b>				Isle of Wight County.....	13	26	26
Cuyahoga County.....			1	James City County.....	11	12	
Hamilton County.....	1		1	King and Queen County.....			1
Ross County.....			1	King George County.....	5		
Summit County.....			2	King William County.....		1	1
<b>Total.....</b>	1		5	Lancaster County.....		2	
<b>Oklahoma:</b>				Lee County.....	1		
McIntosh County.....		1		Loudoun County.....			
Mayes County.....		8		Lunenburg County.....	2	5	7
Pittsburg County.....		3		Madison County.....	3	1	
<b>Total.....</b>		12	(1)	Mathews County.....		1	
<b>Pennsylvania:</b>				Mecklenburg County.....	1	3	8
Allegheny County.....			1	Middlesex County.....	2		9
Philadelphia County.....			1	Nansemond County.....	1		8
<b>Total.....</b>			2	Nelson County.....		1	
<b>South Carolina:</b>				New Kent County.....		5	
Custer County.....		2		Northampton County.....	5	24	21
Darlington County.....		4		Northumberland County.....	4	3	14
Lexington County.....	4	11		Nottoway County.....		1	3
Marion County.....	8			Orange County.....		1	
<b>Total.....</b>	12	17		Page County.....		2	
<b>Virginia:</b>				Pittsylvania County.....	21	12	11
Accomac County.....	24	16	28	Powhatan County.....	3	3	4
Alleghany County.....	1	5		Prince Edward County.....	1	1	2
Botetourt County.....	13			Prince George County.....			
Brunswick County.....	10	8	14	Princess Anne County.....	3	4	10
Buckingham County.....		1	5	Prince William County.....	1		
Campbell County.....	3	3		Richmond County.....	2		1
Caroline County.....	5	6	11	Rockingham County.....			1
				Smyth County.....		1	
				Southampton County.....	5	9	22
				Spottsylvania County.....	2		15
				Stafford County.....	2		
				Surry County.....		11	7
				Sussex County.....	4	3	1
				Warwick County.....	6	13	6
				Westmoreland County.....		2	3
				York County.....	1	4	11
				<b>Total.....</b>	190	240	305

## OCCUPATIONAL DISEASES AND DISABILITIES.

<b>Connecticut:</b>				<b>New Jersey:</b>			
Cyanide poisoning.....		1	1	Lead poisoning.....	3	3	7
Dermatitis venerata.....		1	1	<b>Ohio:</b>			
Dermatitis (occupational).....			1	Aniline poisoning.....		1	
Eczema.....	1			Arsenic poisoning.....			2
<b>Total.....</b>	1	2	3	Brass poisoning.....			2
<b>Illinois:</b>				Cyanide poisoning.....	1		
Lead poisoning.....	2	13	12	Dermatitis (rubber).....	69	76	74
<b>Massachusetts:</b>				Lead poisoning.....	10	3	7
Dermatitis.....	2	3		<b>Total.....</b>	89	80	85
Lead poisoning.....	6	6	4	<b>Pennsylvania:</b>			
<b>Total.....</b>	8	9	4	Lead poisoning.....	2	1	

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## PELLAGRA.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Alabama:</b>				<b>Arkansas—Continued.</b>			
Baldwin County.....			2	Sebastian County.....		2	
Barbour County.....		3		Sharp County.....		1	
Bibb County.....	1		1	Union County.....		1	2
Brillock County.....			2	White County.....			1
Butler County.....		2		Woodruff County.....			1
Calhoun County.....		1	2	<b>Total.....</b>	<b>17</b>	<b>42</b>	<b>76</b>
Chambers County.....	1	2	10	<b>California:</b>			
Cherokee County.....		3	1	Alameda County.....	2		1
Choctaw County.....		1	3	Kings County.....		1	
Clarke County.....		2	1	Los Angeles County.....	2	1	
Conecuh County.....	1			Napa County.....		1	
Covington County.....	2	3	2	Nevada County.....			
Crenshaw County.....		1	1	Riverside County.....	1		
Dale County.....		1		Santa Clara County.....		1	
Dallas County.....		3	6	<b>Total.....</b>	<b>6</b>	<b>4</b>	<b>1</b>
DeKalb County.....	1		1	<b>Florida:</b>			
Escambia County.....		3	3	Alachua County.....		1	
Etowah County.....		8	3	Bay County.....		1	
Geneva County.....			1	Duval County.....		1	
Houston County.....			1	Gadsden County.....		4	2
Jackson County.....	5	2		Lee County.....		1	
Jefferson County.....	3	7	5	Leon County.....			2
Lamar County.....		7		Madison County.....		1	
Lauderdale County.....	3		4	Manatee County.....			1
Lee County.....	1	1	7	Marion County.....	1		1
Lowndes County.....		1	2	Palm Beach County.....		2	
Macon County.....		2		Pinellas County.....	1	1	
Madison County.....	14	3	1	Polk County.....		1	1
Marengo County.....		2	5	<b>Total.....</b>	<b>2</b>	<b>13</b>	<b>7</b>
Marion County.....	2	1		<b>Louisiana:</b>			
Marshall County.....	1	3		Avoynes Parish.....			1
Mobile County.....		6		Beauregard Parish.....	1	2	
Monroe County.....			3	Caddo Parish.....	2	13	7
Montgomery County.....		1		De Soto Parish.....		10	8
Morgan County.....		2	1	East Baton Rouge			
Perry County.....	1			Parish.....		1	3
Pickens County.....	3		1	East Carroll Parish.....		2	4
Pike County.....		1	2	Franklin Parish.....			2
Randolph County.....	1	1	1	Grant Parish.....			1
St. Clair County.....	1			Iberville Parish.....			1
Shelby County.....			1	Morehouse Parish.....	1		
Sumter County.....	4	9	10	Orleans Parish.....	2	2	3
Talladega County.....		6		Rapides Parish.....	2		
Tallapoosa County.....	1	2	3	Red River Parish.....		1	
Tuscaloosa County.....	1		48	Richland Parish.....		3	
Walker County.....	1			St. Landry Parish.....		1	
Washington County.....		5		Washington Parish.....		1	
Wilcox County.....			1	<b>Total.....</b>	<b>8</b>	<b>36</b>	<b>30</b>
Winston County.....		1		<b>Maryland:</b>			
<b>Total.....</b>	<b>48</b>	<b>96</b>	<b>135</b>	Wicomico County.....			1
<b>Arizona:</b>				<b>Massachusetts:</b>			
Maricopa County.....			1	Suffolk County.....		1	
<b>Arkansas:</b>				<b>Mississippi:</b>			
Ashley County.....			2	Adams County.....	1	2	7
Calhoun County.....		1		Alcorn County.....	1		4
Columbia County.....		2		Amite County.....	2	8	
Craighead County.....			4	Attala County.....			2
Drew County.....		10	18	Benton County.....			1
Faulkner County.....		7		Bolivar County.....	74	124	240
Garland County.....		1	1	Carroll County.....	5	7	12
Hempstead County.....		1	3	Chickasaw County.....	2	4	4
Howard County.....		3	4	Clairborne County.....	1	1	
Independence County.....		1	8	Clarke County.....	3	1	10
Jefferson County.....			1	Clay County.....	4	4	10
Lee County.....		2	1	Coahoma County.....	15	64	55
Lenoire County.....			1	Copiah County.....	5	11	28
Mississippi County.....			3	Covington County.....			2
Monroe County.....	1	1					
Orachita County.....	11	11	12				
Pike County.....		1					
Pulaski County.....	2	1	4				
St. Francis County.....	3	3	2				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## PELLAGRA—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Mississippi—Continued.				Mississippi—Continued.			
De Soto County.....	4	8	19	Yalobusha County.....	2	3	3
Forrest County.....			8	Yazoo County.....	7	22	32
Franklin County.....			2	Total.....	366	674	1,026
George County.....	4	3	9				
Greene County.....	3	4	1	New Mexico:			
Grenada County.....		1	1	Bernalillo County.....			1
Hancock County.....		2	2	Oklahoma:			
Harrison County.....	2	2		Carter County.....	1	3	
Hinds County.....	13	12	20	Cherokee County.....	1		
Holmes County.....	8	9	38	Cotton County.....		4	
Humphreys County.....	1			Love County.....	1		
Issaquena County.....	1	2	2	McIntosh County.....		2	
Jackson County.....		2		Total.....	3	9	(1)
Jasper County.....	1	1					
Jefferson County.....		3	6	Pennsylvania:			
Jefferson Davis County..	1	1	3	Philadelphia County.....			1
Jones County.....	10	14	7	South Carolina:			
Kemper County.....	3	1	2	Charleston County.....			1
Lafayette County.....	3	1	4	Chester County.....		1	
Lamar County.....	3	2	1	Cherokee County.....			4
Lauderdale County.....	2		2	Darlington County.....		1	
Lawrence County.....	2	2	6	Total.....		2	5
Leake County.....	1	2	6				
Lee County.....	5	5	6	Virginia:			
Leflore County.....	12	34	50	Amelia County.....		1	
Lincoln County.....	6	10	10	Augusta County.....		1	
Lowndes County.....	2	1	4	Botetourt County.....			2
Madison County.....	7	9	6	Brunswick County.....		2	3
Marion County.....	4	2	4	Campbell County.....	1	3	1
Marshall County.....	3	4	20	Carroll County.....	1		
Monroe County.....	14	10	7	Charles City County.....			1
Montgomery County.....	2	2	1	Dinwiddie County.....		2	
Neshoba County.....		2		Elizabeth City County.....	1		
Noxubee County.....	4	4	3	Greene County.....			1
Oktibbeha County.....	2	6	5	Greensville County.....	1	1	1
Panola County.....	3	1	9	Halifax County.....	2		
Pearl River County.....	2	2	3	Hanover County.....		1	
Pike County.....	1	1	3	Henrico County.....	1	2	
Pontotoc County.....	1		1	Henry County.....	3		
Prentiss County.....			1	James City County.....	1		
Quitman County.....	27	44	68	Louisa County.....			1
Rankin County.....		3	1	Mecklenburg County.....	1		1
Scott County.....	1	2	1	Montgomery County.....	1	2	2
Sharkey County.....	8	15	22	Nottoway County.....			1
Simpson County.....	1	6	2	Patrick County.....	1		1
Smith County.....			1	Pittsylvania County.....	1		1
Stone County.....	1			Prince Edward County.....		1	
Sunflower County.....	17	89	119	Roanoke County.....		1	
Tallahatchie County.....	12	15	32	Scott County.....	2	1	1
Tate County.....	6	8	8	Smyth County.....	2		1
Tippah County.....	7	6	2	Washington County.....	4	1	
Tishomingo County.....	1	1	3	Wise County.....	3		
Tunica County.....	10	23	25	Wythe County.....		1	
Union County.....	2	1	3	Total.....	25	20	18
Walthall County.....		1	1				
Warren County.....			4				
Washington County.....	19	39	59				
Webster County.....	1	1					
Wilkinson County.....	1	4	2				

## POLIOMYELITIS (INFANTILE PARALYSIS).

Alabama:				California—Continued.			
Covington County.....		1		Contra Costa County.....			1
Etowah County.....			1	Los Angeles County.....	1	1	2
Total.....		1	1	San Bernardino County.....		3	
California:				San Diego County.....		1	1
Alameda County.....		1		San Francisco County.....			1
Butte County.....	1			Stanislaus County.....		1	
Colusa County.....		1		Total.....	2	8	5

1 Report for June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Connecticut:</b>				<b>Michigan:</b>			
New Haven County.....		1		Cheboygan County.....	1		
<b>Florida:</b>				Kent County.....	1		
Dade County.....		1	2	Oceana County.....	1		
Highlands County.....		1		Wayne County.....			1
Pinellas County.....		1		Total.....	3		1
Total.....		3	2	<b>Minnesota:</b>			
<b>Hawaii:</b>				Becker County.....			1
Hawaii.....	1			Beltrami County.....			1
Oahu.....	1			Blue Earth County.....		1	
Total.....	2			Carlton County.....		1	
<b>Illinois:</b>				Marshall County.....			1
Cook County.....	3	2	1	Mower County.....			1
Cumberland County.....			1	Ramsey County.....			1
Kane County.....	1	1		Total.....		2	5
Kankakee County.....			1	<b>Mississippi:</b>			
Madison County.....	1			Bolivar County.....	4	1	
Montgomery County.....	1			De Soto County.....			3
Perry County.....	1			Forrest County.....		1	
Rock Island County.....		1		Jasper County.....	1		
St. Clair County.....			1	Jefferson Davis County.....		1	
Sangamon County.....	1			Leflore County.....			1
Tazewell County.....		1		Marion County.....		1	
Total.....	8	5	4	Union County.....			1
<b>Indiana:</b>				Total.....	5	4	5
Grant County.....			3	<b>Nebraska:</b>			
Greene County.....		1		Antelope County.....	1		
Total.....		1	3	Lincoln County.....	1		
<b>Iowa:</b>				Total.....	2		1
Poweshiek County.....	1			<b>New Jersey:</b>			
Webster County.....		1		Atlantic County.....		1	
Total.....	1	1		Bergen County.....			1
<b>Kansas:</b>				Essex County.....	1		
Thomas County.....			1	Hudson County.....		1	1
<b>Louisiana:</b>				Middlesex County.....			1
Acadia Parish.....		1		Union County.....	1		
Caddo Parish.....			1	Total.....	2	2	3
East Baton Rouge Parish.....			1	<b>New York:</b>			
Orleans Parish.....	1	1	1	Albany County.....		1	
Ouachita Parish.....			1	Chautauqua County.....		1	1
Total.....	1	2	4	Delaware County.....			1
<b>Maryland:</b>				Erie County.....			1
Baltimore City.....	3			Herkimer County.....		1	
Charles County.....		1		Jefferson County.....			1
Garrett County.....	1			New York City.....	2	11	12
Total.....	4	1		Niagara County.....			1
<b>Massachusetts:</b>				Oneida County.....			2
Bristol County.....	1			Oswego County.....			1
Essex County.....		2		Putnam County.....			2
Hampden County.....			1	St. Lawrence County.....			1
Middlesex County.....	2	2	2	Seneca County.....		1	
Norfolk County.....	1	1		Sullivan County.....			1
Suffolk County.....	1		1	Ulster County.....			1
Worcester County.....	1			Westchester County.....		1	
Total.....	6	5	4	Total.....	2	17	24
				<b>North Carolina:</b>			
				Cleveland County.....			1
				Randolph County.....			1
				Wake County.....	1		
				Total.....	1		2

<sup>1</sup> County not given.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
North Dakota:				South Dakota—Continued.			
Bowman County.....		1		Roberts County.....	1		
Hettinger County.....		1		Spink County.....		1	1
Richland County.....			1	Total.....	2	2	2
Ward County.....		1		Virginia:			
Total.....		3	1	Botetourt County.....	1		3
Ohio:				Campbell County.....	1	1	
Columbiana County.....		1		Lee County.....			1
Mahoning County.....	1		1	Lunenburg County.....	1		
Marion County.....		1		Madison County.....		2	
Ross County.....		1		Montgomery County.....			2
Total.....	1	3	1	Rockingham County.....	1		
Oklahoma:				Total.....	4	3	6
Mayes County.....		1		Washington:			
Pennsylvania:				Thurston County.....		1	
Allegheny County.....		1		Wisconsin:			
Beaver County.....			1	Dane County.....		1	
Berks County.....	1			Dodge County.....			1
Cambridia County.....	1			Eau Claire County.....		1	
Chester County.....			1	Milwaukee County.....		1	
Lancaster County.....		1		Outagamie County.....		1	
Mifflin County.....	1			Rock County.....	1		
Schuylkill County.....	1	1		Vilas County.....			1
Tioga County.....	1			Total.....	1	4	2
Washington County.....			1	Wyoming:			
Total.....	5	3	3	Crook County.....		1	
South Dakota:				Sheridan County.....	1		
Edmunds County.....		1		Total.....	1	1	
Miner County.....			1				
Potter County.....	1						

## ROCKY MOUNTAIN SPOTTED OR TICK FEVER.

Arizona:				Montana—Continued.			
Graham County.....			1	Park County.....		1	
California:				Ravalli County.....	1	4	
Lassen County.....	1			Rosebud County.....		4	2
Colorado:				Treasure County.....		1	
Moffat County.....		1		Total.....	8	20	10
Idaho:				Oregon:			
Ada County.....		1		Grant County.....	1		
Bingham County.....	1			Union County.....		1	
Cassia County.....	1			Wasco County.....			1
Twin Falls County.....	1			Total.....	1	1	1
Total.....	3	1	1 <sup>7</sup>	Washington:			
Montana:				Lincoln County.....		1	
Big Horn County.....		1		Wyoming:			
Broadwater County.....			1	Freemont County.....			1
Carbon County.....	1		2	Hot Springs County.....	1	2	
Fergus County.....		1	2	Johnson County.....			1
Garnfield County.....	2	7	2	Natrona County.....		3	6
Golden Valley County.....	1			Total.....	1	5	8
Jefferson County.....	1		1				
Lewis and Clark County.....							
Meagher County.....	1						
Missoula County.....	1	1					

<sup>1</sup> Cases not reported before death.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SMALLPOX.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Alabama:</b>				<b>California—Continued.</b>			
Baldwin County.....	3	1	.....	San Joaquin County—			
Barbour County.....	.....	.....	13	Stockton.....	10	11	2
Calhoun County.....	33	23	6	Scattering.....	11	3	2
Chambers County.....	1	.....	.....	San Luis Obispo County.	1	.....	1
Cherokee County.....	3	10	.....	Santa Barbara County..	.....	.....	3
Clarke County.....	1	.....	.....	Santa Clara County.....	.....	2	1
Coffee County.....	1	.....	.....	Santa Cruz County.....	1	3	.....
Cullman County.....	.....	3	.....	Stanislaus County.....	4	9	8
Dallas County.....	6	.....	.....	Tehama County.....	4	.....	3
Elmore County.....	3	.....	.....	Tulare County.....	.....	.....	.....
Geneva County.....	1	.....	.....	Ventura County—			
Hale County.....	.....	8	9	Ventura.....	18	15	.....
Henry County.....	.....	2	4	Scattering.....	8	17	12
Houston County.....	2	2	.....	Total.....	112	169	93
Jefferson County.....	6	1	1				
Madison County.....	1	2	3	<b>Colorado:</b>			
Marengo County.....	1	1	2	Boulder County.....	.....	1	.....
Marshall County.....	.....	2	.....	Denver County.....	2	.....	.....
Mobile County.....	4	.....	1	Washington County.....	1	.....	.....
Randolph County.....	.....	.....	6	Weld County.....	.....	1	1
Tallapoosa County.....	.....	2	.....	Yuma County.....	1	.....	.....
Walker County.....	1	1	.....	Total.....	4	2	1
Washington County.....	.....	1	.....				
Total.....	66	57	45	<b>Connecticut:</b>			
				Fairfield County.....	9	1	3
<b>Arizona:</b>				New Haven County.....	2	.....	.....
Gila County.....	1	.....	.....	Total.....	11	1	3
Maricopa County.....	.....	6	3				
Pima County.....	8	.....	1	<b>District of Columbia.....</b>	1	.....	.....
Yavapai County.....	2	.....	.....				
Total.....	11	6	4	<b>Florida:</b>			
				Brevard County.....	.....	.....	1
<b>Arkansas:</b>				Dade County.....	.....	3	5
Arkansas County.....	1	.....	.....	Duval County.....	6	5	4
Bradley County.....	1	.....	.....	Escambia County.....	.....	2	.....
Calhoun County.....	.....	1	.....	Hillsborough County.....	1	1	.....
Clay County.....	.....	.....	1	Jackson County.....	1	.....	.....
Columbia County.....	.....	2	.....	Jefferson County.....	.....	.....	8
Conway County.....	.....	3	.....	Leon County.....	.....	4	.....
Craighead County.....	.....	2	.....	Marion County.....	1	.....	.....
Cross County.....	.....	.....	1	Pinellas County.....	3	3	.....
Garland County.....	1	.....	.....	St. Lucie County.....	1	.....	.....
Greene County.....	.....	.....	1	Seminole County.....	.....	2	.....
Hempstead County.....	5	.....	.....	Volusia County.....	.....	1	.....
Izard County.....	.....	.....	10	Total.....	13	21	18
Lawrence County.....	.....	.....	5				
Lenoire County.....	.....	1	.....	<b>Hawaii:</b>			
Miller County.....	5	11	.....	Mauli.....	1	.....	.....
Mississippi County.....	.....	.....	1				
Ouachita County.....	3	4	4	<b>Idaho:</b>			
Pike County.....	.....	3	1	Bannock County.....	3	.....	.....
Pulaski County.....	.....	1	.....	Benewah County.....	.....	2	.....
Sebastian County.....	.....	1	.....	Boundary County.....	5	.....	1
Union County.....	1	20	6	Bonner County.....	.....	1	2
Woodruff County.....	.....	4	7	Caribou County.....	1	.....	.....
Total.....	17	53	37	Fremont County.....	.....	.....	1
				Kootenai County.....	1	.....	.....
<b>California:</b>				Nez Perce County.....	1	.....	.....
Alameda County—				Oneyda County.....	2	.....	.....
Hayward.....	8	16	3	Payette County.....	1	.....	.....
Scattering.....	2	4	2	Total.....	14	3	4
Fresno County.....	.....	3	1				
Kern County.....	4	3	.....	<b>Illinois:</b>			
Los Angeles County—				Adams County.....	.....	.....	1
Los Angeles.....	25	63	34	Champaign County.....	.....	.....	1
Scattering.....	7	13	11	Christian County.....	1	.....	.....
Monterey County.....	2	.....	.....	Cook County.....	1	13	22
Orange County.....	3	.....	2	Clinton County.....	1	.....	.....
Placer County.....	1	.....	.....	Crawford County.....	.....	1	.....
Sacramento County.....	.....	.....	1	Cumberland County.....	1	1	1
San Bernardino County.....	.....	7	7	Douglas County.....	.....	.....	2
San Francisco County.....	3	.....	.....				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923--Continued.

## SMALLPOX--Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Illinois--Continued.</b>				<b>Iowa:</b>			
Fulton County.....	1			Appanoose County.....	43	17	34
Franklin County.....			1	Benton County.....		8	
Greene County.....		1		Carroll County.....	1		
Grundy County.....	2	3	3	Cedar County.....			8
Henry County.....	3	6	1	Cherokee County.....		4	
Iroquois County.....	1			Des Moines County.....	3	9	1
Jo Daviess County.....		1		Greene County.....		1	
Johnson County.....			2	Iowa County.....			8
Kane County.....			25	Jasper County.....	3		
Lawrence County.....	1			Jefferson County.....			1
Lee County.....	2	5	8	Kossuth County.....			2
Livingston County.....			1	Linn County.....		1	2
McDonough County.....			6	Lucas County.....			1
Macon County.....		7	23	Polk County.....	9	5	5
Macoupin County.....			1	Poweshiek County.....	5	18	
Madison County.....			1	Scott County.....	35	88	40
Marion County.....			1	Story County.....	3	1	
Ogle County.....	4	6	2	Warren County.....			2
Peoria County.....	1	1		Wayne County.....	13	1	2
Platt County.....	4	3	5				
Rock Island County.....	1	7	5	Total.....	115	153	103
Sangamon County.....			2				
Tazewell County.....	8	3	6	<b>Kansas:</b>			
Union County.....			2	Allen County.....		1	
Vermilion County.....	1		4	Anderson County.....			2
Washington County.....			2	Butler County.....	6	3	4
Wayne County.....		1		Chautauqua County.....		1	1
Whiteside County.....	1			Coffey County.....		1	2
Will County.....	3	1		Cowley County.....		1	4
Winnebago County.....	1	1		Douglas County.....	1		1
Total.....	50	67	128	Finney County.....			2
				Ford County.....		1	
<b>Indiana:</b>				Harvey County.....	12	9	6
Adams County.....	14	8	3	Labette County.....	2	1	
Allen County.....	20	59	38	Lincoln County.....	1	2	
Blackford County.....	5			Lyon County.....		1	
Boone County.....		3		McPherson County.....		2	
Cass County.....	1	6	6	Montgomery County.....	1		2
Clinton County.....		3		Morris County.....	1		
Decatur County.....	3	1	1	Neosho County.....	1		3
DeKalb County.....	3	2		Pawnee County.....		1	
Delaware County.....	4	1	16	Pratt County.....			1
Elkhart County.....	1		5	Reno County.....	10	1	
Fayette County.....	2	1		Riley County.....	1		
Floyd County.....		2	1	Saline County.....		1	
Grant County.....	1	7	6	Sedgwick County.....	5	18	4
Hancock County.....		2		Shawnee County.....	1		
Henry County.....	4			Sumner County.....	10	4	
Howard County.....		1		Stafford County.....			1
Huntington County.....	34	26	17	Wilson County.....	1	3	
Jackson County.....		3	1	Woodson County.....	1		
Jay County.....	1		2	Wyandotte County.....	2	2	
Kosciusko County.....	4	1		Total.....	56	53	33
Lake County.....	48	26	33				
Laporte County.....	2	5	6	<b>Louisiana:</b>			
Madison County.....	18	7	1	Beauregard Parish.....		1	
Marion County.....	18	30	36	Caddo Parish.....	51	36	8
Marshall County.....	1			Calcasieu Parish.....	1		
Miami County.....		1	1	Claiborne Parish.....			2
Noble County.....	1			De Soto Parish.....	5	1	4
Porter County.....		1	2	East Baton Rouge Parish.....			
Randolph County.....			2	Franklin Parish.....	3	1	1
Rush County.....	4	4	3	Iberia Parish.....	1		1
St. Joseph County.....		18	29	Iberville Parish.....		1	
Spencer County.....		1	2	Jackson Parish.....		4	
Steuben County.....		1		Lafayette Parish.....	7	3	
Tippecanoe County.....			1	Lincoln Parish.....	1		
Tipton County.....	5	1		Madison Parish.....	2	1	
Vigo County.....			11	Morehouse Parish.....		1	
Wabash County.....	8	5	6	Natchitoches Parish.....	2		
Washington County.....			1	Orleans Parish.....	2		
Wayne County.....			1	Ouachita Parish.....	41	11	1
Wells County.....	2	17	5	Red River Parish.....		7	
Total.....	204	243	236	Richland Parish.....		2	1
				St. Charles Parish.....		4	



## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SMALLPOX—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Louisiana—Continued.</b>				<b>Minnesota—Continued.</b>			
St. Tammany Parish.....	1			Freeborn County.....	1	1	
Vernon Parish.....	1		2	Goodhue County.....	1	1	
Webster Parish.....	12	7		Grant County.....	6		
<b>Total.....</b>	<b>132</b>	<b>80</b>	<b>20</b>	Hennepin County.....	9	16	7
<b>Maine:</b>				Isanti County.....	1		1
Androscoggin County.....	3	7		Itasca County.....	1		
Cumberland County—				Kandiyohi County.....	1		
Standish.....	55	6		Kittson County.....	1	2	
Scattering.....	2	5		Koochiching County.....		4	4
Oxford County.....	7	3		Lake County.....			2
Somerset County.....	1			McLeod County.....		1	
York County.....	4			Marshall County.....	2		
<b>Total.....</b>	<b>72</b>	<b>21</b>	<b>(1)</b>	Millie Lac County.....	2	2	1
<b>Maryland:</b>				Morrison County.....	5	4	5
Anne Arundel County.....	1			Mower County.....	1		
Baltimore City.....			1	Nicollet County.....		3	8
Wicomico County.....	1			Nobles County.....		3	1
<b>Total.....</b>	<b>2</b>		<b>1</b>	Olmsted County.....	1		2
<b>Michigan:</b>				Ottertail County.....	1		4
Allegan County.....			1	Pine County.....		16	1
Antrim County.....	19			Polk County.....	16	6	
Berrien County.....	1		2	Pope County.....	3		1
Branch County.....	1		4	Ramsey County.....	28	15	10
Calhoun County.....	6	4	4	Renville County.....	1	5	3
Cass County.....			3	Rice County.....	4		
Chippewa County.....	7			St. Louis County.....	29	23	22
Clinton County.....	10	2		Stearns County.....	9	5	1
Eaton County.....	5	16	5	Steele County.....			1
Genesee County.....	2			Swift County.....		1	
Gogebic County.....	3			Wabasha County.....	1	1	1
Hillsdale County.....	1		1	Wadena County.....	1		
Huron County.....		1	3	Washington County.....	1		2
Ingham County.....	3	3	4	<b>Total.....</b>	<b>131</b>	<b>117</b>	<b>88</b>
Ionia County.....	8	2	1	<b>Mississippi:</b>			
Jackson County.....	3	14	11	Adams County.....			4
Kalamazoo County.....	1		1	Boh'war County.....	1		
Kent County.....	17	6		Chickashaw County.....	1		
Lenawee County.....		1	1	Clay County.....			2
Mackinac County.....			2	Coahoma County.....		1	
Macomb County.....	1		5	De Soto County.....	2		
Marquette County.....	2	1	1	Lauderdale County.....	9	2	5
Mecosta County.....	1	1	1	Marshall County.....			
Midland County.....			8	Monroe County.....			1
Monroe County.....	1	3		Newton County.....		1	
Montcalm County.....		3	5	Pearl River County.....		2	
Montmorency County.....		1		Quitman County.....		3	
Muskegon County.....			1	<b>Total.....</b>	<b>13</b>	<b>9</b>	<b>13</b>
Newaygo County.....	1			<b>Montana:</b>			
Oakland County.....	1	1	1	Cascade County.....	9	5	6
Ottawa County.....	1	1	2	Daniels County.....			2
St. Clair County.....			4	Flathead County.....	2		4
Shiawassee County.....	5	1		Jefferson County.....		7	
Washtenaw County.....		1	1	Judith Basin County.....	6	1	2
Wayne County.....	16	29	34	Lewis and Clark County.....	6	4	
<b>Total.....</b>	<b>116</b>	<b>91</b>	<b>106</b>	Madison County.....	6		
<b>Minnesota:</b>				Mineral County.....	1	1	1
Aitkin County.....		2		Missoula County.....	4		1
Anoka County.....			1	Pondera County.....	9		
Becker County.....	1			Ravalli County—			
Brown County.....		2		Stevensville.....	15	5	
Carlton County.....	2	2	4	Roosevelt County.....			4
Carver County.....			1	Rosebud County.....			1
Cass County.....	1			Sheridan County.....		4	
Chippewa County.....	1	2		Silver Bow County.....	1	2	2
Clay County.....	1			Stillwater County.....		2	
Clearwater County.....	2		1	Teton County.....		1	
Crow Wing County.....			3	Toole County.....			1
Faribault County.....	1			Valley County.....		1	
				Yellowstone County.....		1	1
				<b>Total.....</b>	<b>53</b>	<b>34</b>	<b>25</b>

1 Report for month of June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SMALLPOX—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Nebraska:</b>				<b>North Carolina—Continued.</b>			
Cuming County.....	1			Richmond County.....	4	2	
Douglas County.....	1			Robeson County.....		3	5
Gage County.....	2			Rockingham County.....	15	8	9
<b>Total.....</b>	<b>4</b>	<b>12</b>	<b>19</b>	Rowan County.....	18	18	17
<b>New Jersey:</b>				Sampson County.....	1		1
Burlington County.....		2		Scotland County.....		6	
Mercer County.....			1	Stanly County.....	23	21	16
Warren County.....		1		Stokes County.....		8	
<b>Total.....</b>		<b>3</b>	<b>1</b>	Surry County.....	5		
<b>New Mexico:</b>				Swain County.....	2	12	1
Colfax County.....		1		Union County.....	1	8	3
Curry County.....	2	5		Vance County.....	5		
Hidalgo County.....	13			Wake County.....	2	5	12
McKinley County.....	26	8		Wayne County.....	1		
Torrance County.....			1	Wilson County.....	1	1	
Valencia County.....		2		Yadkin County.....	1		3
<b>Total.....</b>	<b>41</b>	<b>16</b>	<b>1</b>	<b>Total.....</b>	<b>398</b>	<b>385</b>	<b>239</b>
<b>New York:</b>				<b>North Dakota:</b>			
Cattaraugus County.....	10	6		Burleigh County.....			9
Chautauqua County.....		1	3	Cavalier County.....			1
Erle County.....		1	3	Dickey County.....		1	
Lewis County.....	3	1		Divide County.....	3		
Monroe County.....		1		Emmons County.....	21	8	4
New York City.....	1	1		Foster County.....		1	
Niagara County.....	4	6	9	Grand Forks County.....		3	4
Rockland County.....		1		La Moure County.....		5	4
St. Lawrence County.....	8			Nelson County.....	1		
Ulster County.....		2		Ramsey County.....		1	
Westchester County.....	1			Ransom County.....	10		
<b>Total.....</b>	<b>27</b>	<b>20</b>	<b>15</b>	Richland County.....		1	
<b>North Carolina:</b>				Stutsman County.....			6
Alamance County.....		1	1	Ward County.....			5
Alexander County.....		1		Wells County.....	1		
Ashe County.....	1	11		<b>Total.....</b>	<b>36</b>	<b>20</b>	<b>33</b>
Beaufort County.....			2	<b>Ohio:</b>			
Bladen County.....	1			Allen County.....		5	5
Cabarrus County.....	3	5	12	Athens County.....	1		
Caswell County.....	2	60	40	Auglaize County.....	10		2
Cherokee County.....		2		Belmont County.....	15	5	4
Cleveland County.....	4	4	4	Brown County.....		1	
Craven County.....	4	4		Butler County.....	5	21	32
Cumberland County.....	3	4	3	Champaign County.....		1	
Davidson County.....	4	9		Clark County.....		5	
Davie County.....	4	1		Clinton County.....		1	1
Durham County.....	20	17	14	Columbiana County.....	5	1	
Edgecombe County.....	1	2	2	Crawford County.....	5		1
Forsyth County.....	127	71	23	Darke County.....	14	23	5
Franklin County.....	3	1	7	Defiance County.....	4	2	10
Gaston County.....	3	6	5	Delaware County.....	2		
Granville County.....		1		erie County.....	12	18	17
Greene County.....	8	6		Fairfield County.....		3	
Guilford County.....	68	40	18	Fayette County.....	1	1	
Halifax County.....		2		Franklin County.....	17	12	6
Haywood County.....	1	1	1	Fulton County.....	36	12	1
Iredell County.....	1	1	6	Greene County.....	1	2	
Johnston County.....	2	2	5	Guernsey County.....	46	17	9
Jones County.....		2		Hamilton County.....	13	11	7
Lenoir County.....	5	1	1	Hancock County.....	2	1	
Lincoln County.....		1	3	Holmes County.....	16	10	
Martin County.....	5			Jackson County.....	10	6	1
Mecklenburg County.....	23	19	17	Lawrence County.....		8	
Montgomery County.....	1			Licking County.....		6	
Nash County.....	1		3	Lucas County.....	109	35	8
New Hanover County.....	1	2		Madison County.....	1		
Orange County.....		1		Mahoning County.....	1	3	1
Pitt County.....	24	11	8	Marion County.....	1	1	4
Randolph County.....	3			Modena County.....		2	1

¹ Counties not given.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SMALLPOX—Continued.

Place	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Ohio—Continued.</b>				<b>Pennsylvania:</b>			
Ottawa County.....	1			Allegheny County.....	5	2	5
Paulding County.....	15	2		Berks County.....	1		
Perry County.....			2	Blair County.....	1	5	
Pickaway County.....			1	Bucks County.....		1	2
Pike County.....	14	6	12	Cambria County.....	8	5	18
Putnam County.....	4		1	Dauphin County.....	1		1
Preble County.....		11		Erie County.....		1	1
Richland County.....			1	Indiana County.....	1		
Ross County.....		2	10	Mercer County.....	2	6	2
Scioto County.....	14	10	5	Philadelphia County.....		11	4
Stark County.....		2		Washington County.....		1	
Summit County.....			3	Westmoreland County.....	1		
Trumbull County.....	1	2	6				
Tuscarawas County.....		1		<b>Total.....</b>	<b>20</b>	<b>32</b>	<b>33</b>
Van Wert County.....	24	12	11				
Vinton County.....		4	11	<b>South Carolina:</b>			
Wayne County.....	14	4	1	Aiken County.....	2		
Wood County.....	1		2	Bamberg County.....		1	
<b>Total.....</b>	<b>426</b>	<b>313</b>	<b>197</b>	Barnwell County.....		1	
<b>Oklahoma:</b>				Berkeley County.....	1		
Atoka County.....	14	6		Calhoun County.....	1		4
Bryan County.....		13		Darlington County.....	2	3	
Caddo County.....		1		Edgefield County.....	5		
Carter County.....	4	9		Florence County.....			1
Cherokee County.....		8		Greenville County.....	3	1	2
Comanche County.....	1	1		Horry County.....			5
Cotton County.....		10		Lexington County.....	8		1
Garfield County.....	7	76		Oconee County.....		12	
Grady County.....	41	1		Orangeburg County.....	3		
Hughes County.....	40	5		Richland County.....	2	1	1
Jackson County.....	9			Saluda County.....		3	
Lincoln County.....		1		Spartanburg County.....		1	11
Love County.....	25	15		Sumter County.....	1		
McCurtain County.....	11			Union County.....	1		
McIntosh County.....	1			York County.....			1
Marshall County.....	24	56		<b>Total.....</b>	<b>31</b>	<b>23</b>	<b>26</b>
Noble County.....		3					
Osage County.....	16			<b>South Dakota:</b>			
Payne County.....		2		Beadle County.....	7	1	1
Seminole County.....	11			Brown County.....	1	4	
Texas County.....	2			Dewey County.....	1	5	
Tillman County.....	25			Edmunds County.....	1		
Tulsa County.....	20	27		Faulk County.....		2	
Wagoner County.....		10		Moody County.....	2	1	
Washita County.....	13	1		Roberts County.....		2	1
Woodward County.....		6		Spink County.....	2		
<b>Total.....</b>	<b>264</b>	<b>251</b>	<b>(1)</b>	<b>Total.....</b>	<b>14</b>	<b>17</b>	<b>2</b>
<b>Oregon:</b>				<b>Vermont:</b>			
Baker County.....	2	21	1	Bennington County.....	4		
Benton County.....		1		Burlington County.....			6
Clackamas County.....	1	1		Chittenden County.....	2	6	
Clatsop County.....		2	1	Grand Isle County.....	2		
Columbia County.....	19	7		<b>Total.....</b>	<b>8</b>	<b>6</b>	<b>6</b>
Coos County.....	6	4	6				
Douglas County.....	1	2	1	<b>Virginia:</b>			
Grant County.....		2	1	Albemarle County.....		1	
Hood River County.....			14	Botetourt County.....	1		
Lane County.....			4	Campbell County.....			4
Linn County.....	18	7	1	Floyd County.....	5	13	2
Marion County.....	4	9	4	Franklin County—			
Multnomah County—				Richmond.....	12	3	
Portland.....	52	48	36	Scattering.....	20	27	6
Scattering.....	8	1	2	Henry County—			
Polk County.....	3			Norfolk.....	3	19	
Umatilla County.....		2	1	Scattering.....	12	7	8
Union County.....	3	1		Pittsylvania County.....	6		
Wasco County.....		1		Prince William County.....		2	9
Washington County.....		2	1	Pulaski County.....	10	12	
<b>Total.....</b>	<b>117</b>	<b>111</b>	<b>73</b>	Rockingham County.....	3	6	
				Tarewell County.....	26	7	4

1 Report for the month of June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SMALLPOX—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Virginia—Continued.				West Virginia—Continued.			
Washington County.....		2		Wayne County.....	7		
Wythe County.....	3			Wetzel County.....		4	
Total.....	101	99	33	Wood County.....		4	
Washington:				Total.....	67	22	38
Clallam County.....			1	Wisconsin:			
Clarke County.....	1	9	38	Ashland County.....			1
Cowlitz County.....	15	2	2	Barron County.....		4	
Douglas County.....	1			Bayfield County.....	1		
Grays Harbor County.....	7	2	2	Brown County.....	1	1	
Jefferson County.....		2		Buffalo County.....	3	4	
King County—				Clark County.....	1		
Seattle.....	23	40	23	Columbia County.....	1		
Scattering.....	1	34	2	Crawford County.....	1	1	1
Kitsap County.....	2			Dane County.....	4	12	7
Klickitat County.....	1	1		Dodge County.....	2	6	5
Lewis County.....	7	3	1	Door County.....			1
Lincoln County.....		3	1	Douglas County.....	34	48	12
Pend Oreille County.....			1	Dunn County.....	6		
Pacific County.....	1	9		Eau Claire County.....	6	8	2
Pierce County.....	9	3	3	Grant County.....	7		
Skagit County.....	3		1	Green Lake County.....		1	
Skamania County.....	2		2	Iowa County.....	2		
Snohomish County.....	7	4	6	Iron County.....	1		
Spokane County—				Jackson County.....	1		
Spokane.....	31	26		Jefferson County.....		7	37
Scattering.....	2	6	14	Kenosha County.....	27	50	23
Stevens County.....		12	4	Kewaunee County.....		1	
Thurston County.....	4	1		La Crosse County.....		1	
Walla Walla County.....	6	4	4	Lincoln County.....		1	
Whitcom County.....	3	4	1	Marquette County.....		3	
Whitman County.....	7	1		Milwaukee County.....	2	3	3
Yakima County.....	8	4	7	Pepin County.....		2	
Total.....	141	170	113	Polk County.....	2		
West Virginia:				Portage County.....	3	1	
Cabell County.....		1		Racine County.....	13	11	3
Fayette County.....			2	Rock County.....	4	1	2
Hancock County.....	1		3	Sawyer County.....	1	1	
Lewis County.....			2	Sheboygan County.....	1		1
Logan County.....	12		20	Washburn County.....	6	4	2
McDowell County.....	28	3	2	Winnebago County.....	7	7	2
Mason County.....	5		1	Total.....	136	179	102
Mercer County.....	2			Wyoming:			
Mingo County.....	7	1	2	Converse County.....		1	
Monongalia County.....			2	Natrona County.....			1
Nicholas County.....		8	4	Sheridan County.....	1		
Raleigh County.....	5			Total.....	1	1	1
Roane County.....		1					

## TYPHOID FEVER.

Alabama:				Alabama—Continued.			
Barbour County.....			1	Dallas County.....		5	2
Baldwin County.....	5	2	1	Dekalb County.....	1	4	8
Bibb County.....		1	6	Elmore County.....	2	1	3
Bullock County.....		2		Escambia County.....		2	3
Butler County.....	2	1	6	Etowah County.....		4	8
Calhoun County.....		1		Fayette County.....		1	
Chambers County.....		2	1	Franklin County.....		1	
Cherokee County.....	6			Geneva County.....			1
Clarke County.....	4		2	Hale County.....			1
Clay County.....	1			Henry County.....			1
Coffee County.....			8	Houston County.....	1	3	4
Colbert County.....	3		9	Jackson County.....		4	5
Conecuh County.....	1		1	Jefferson County.....	7	28	25
Coosa County.....		1	2	Lamar County.....		1	3
Covington County.....		2	10	Lauderdale County.....	2	4	2
Crenshaw County.....	2	3	8	Lawrence County.....			1
Cullman County.....		1	7	Lee County.....	1		
Dale County.....		1	6	Limestone County.....	1	1	4

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Alabama—Continued.</b>				<b>California—Continued.</b>			
Madison County.....	1	2	2	Los Angeles County—			
Marengo County.....		4	9	Los Angeles.....	2	5	11
Marshall County.....		1	3	Scattering.....	3	5	10
Mobile County.....	1	1	5	Madera County.....		2	
Monroe County.....	2	5	2	Marin County.....	1		1
Montgomery County.....	1		2	Mendocino County.....			4
Morgan County.....	1	7	5	Merced County.....			1
Perry County.....		1		Modoc County.....			1
Pickens County.....			6	Orange County.....			5
Pike County.....		1	3	Riverside County.....	5	4	3
Randolph County.....		3	5	Sacramento County.....	2	2	3
St. Clair County.....			1	San Bernardino County.....	1		3
Shelby County.....	1	1	2	San Diego County.....	2	4	1
Sumter County.....	1	2	2	San Francisco County.....	1	6	1
Talladega County.....	1	7	10	San Joaquin County.....	5	4	5
Tallapoosa County.....			2	San Mateo County.....		1	
Tuscaloosa County.....	2	4	2	Santa Barbara County.....			1
Walker County.....	4	2	1	Santa Clara County.....		4	2
Winston County.....			5	Santa Cruz County.....		1	
<b>Total.....</b>	<b>54</b>	<b>117</b>	<b>206</b>	Solano County.....	1	1	
<b>Arizona:</b>				Sonoma County.....	1		1
Cochise County.....		1	1	Stanislaus County.....	2	1	
Greenlee County.....		1		Sutter County.....	1		
Maricopa County.....	2	2	9	Tehama County.....		3	1
Navajo County.....			1	Trinity County.....		1	
Pima County.....		2		Tulare County.....	1	1	
Yavapai County.....		2		Ventura County.....		4	
<b>Total.....</b>	<b>2</b>	<b>8</b>	<b>11</b>	Place not stated.....	2	1	5
<b>Arkansas:</b>				<b>Total.....</b>	<b>37</b>	<b>67</b>	<b>75</b>
Ashley County.....			2	<b>Colorado:</b>			
Conway County.....			1	Adams County.....		1	3
Calhoun County.....			1	Baca County.....	1		
Cleveland County.....			1	Boulder County.....	1		
Crawford County.....			1	Denver County.....	1	3	
Cross County.....	1			Eagle County.....		1	
Drew County.....		1		Fremont County.....			2
Faulkner County.....	1			Garfield County.....			1
Greene County.....	1			Grand County.....	1		
Hot Spring County.....		1		Kiowa County.....	1		1
Howard County.....		11	4	Las Animas County.....			1
Independence County.....		1	1	Logan County.....	1		1
Lawrence County.....			3	Mesa County.....		1	2
Logan County.....		2		Montrose County.....			1
Madison County.....			2	Morgan County.....			7
Mississippi County.....	2	2		Otero County.....	1	1	
Monroe County.....			1	Pueblo County.....	4	5	
Ouachita County.....	1	1		Weld County.....			3
Perry County.....	1	1	1	<b>Total.....</b>	<b>10</b>	<b>12</b>	<b>21</b>
Pulaski County.....		6		<b>Connecticut:</b>			
St. Francis County.....		2		Fairfield County.....	1	2	2
Scott County.....		2		Hartford County.....	1	2	1
Sebastian County.....		3	4	Litchfield County.....	3		
Sharp County.....		3	4	Middlesex County.....		1	1
Union County.....	1		3	New Haven County.....	1	4	2
Washington County.....		1	1	New London County.....	1	1	3
White County.....		1		Windham County.....		2	
<b>Total.....</b>	<b>7</b>	<b>38</b>	<b>30</b>	<b>Total.....</b>	<b>7</b>	<b>12</b>	<b>9</b>
<b>California:</b>				<b>Delaware:</b>			
Alameda County.....	4	3	5	New Castle County.....	1	1	2
Colusa County.....		1	1	Sussex County.....			2
Contra Costa County.....	2	2	1	<b>Total.....</b>	<b>1</b>	<b>1</b>	<b>4</b>
Eldorado County.....			2	<b>District of Columbia</b>	<b>1</b>	<b>7</b>	<b>13</b>
Fresno County.....	2	2	2	<b>Florida:</b>			
Glenn County.....			1	Alachua County.....	1	2	1
Humboldt County.....		1		Baker County.....			2
Imperial County.....	1	5	3				
Kern County.....		2					
Kings County.....	1	1	1				

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Florida—Continued.</b>				<b>Illinois—Continued.</b>			
Brevard County.....			1	Kendall County.....	1		
Broward County.....		1		Lake County.....	3	2	
Clay County.....		2		La Salle County.....	4	1	
Columbia County.....		2		McDonough County.....		1	
Dade County.....	3	2	5	McHenry County.....			1
De Soto County.....			1	McLean County.....			2
Duval County—				Macon County.....	2		1
Jacksonville.....	4	13	1	Macoupin County.....		1	2
Scattering.....	1	2		Madison County.....	1	1	3
Escambia County.....	2	3	5	Marion County.....		1	3
Gadsden County.....	1	1	1	Marshall County.....		1	
Glades County.....			1	Mason County.....			2
Hardee County.....	3	3	1	Menard County.....			2
Hillsborough County.....	19	17	2	Morgan County.....	1	1	1
Holmes County.....		2	1	Peoria County.....	2	1	2
Jefferson County.....			4	Perry County.....	3		
Lake County.....		1		Pike County.....		1	
Lee County.....	1	1		Randolph County.....	1		1
Leon County.....	1			Rock Island County.....		1	1
Madison County.....		2	1	St. Clair County.....	2		
Manatee County.....	1	4		Saline County.....	2	1	2
Marion County.....	2	3	1	Sangamon County.....	3		1
Monroe County.....		1	2	Shelby County.....			1
Nassau County.....	1	1		Tazewell County.....	1		4
Orange County.....	1	2	8	Wabash County.....	1		
Osceola County.....	2	1	1	Warren County.....		1	
Palm Beach County.....	1			White County.....	2	4	3
Pasco County.....			1	Will County.....	1		3
Pinellas County.....	4	2		Williamson County.....	4	2	1
Polk County.....	2	4	6	Winnebago County.....			1
Putnam County.....	1						
St. Johns County.....	2	2		Total.....	52	54	68
St. Lucie County.....		3	3				
Santa Rosa County.....	1	1		<b>Indiana:</b>			
Seminole County.....	2	2	1	Allen County.....	1		
Suwannee County.....		2		Bartholomew County.....			1
Taylor County.....		6	1	Cass County.....		1	2
Volusia County.....	7	1	2	Clay County.....		2	
Wakulla County.....			1	Delaware County.....		1	1
Total.....	61	89	54	Hancock County.....			2
				Hendricks County.....	1		
<b>Hawaii:</b>				Huntington County.....			4
Hawaii.....	2	3	5	Jackson County.....			2
Kauai.....			1	Jefferson County.....		1	
Mau.....		2	2	Knox County.....		1	
Oahu.....	11	7	4	Kosciusko County.....			1
Total.....	13	12	12	Lake County.....	5		3
				Laporte County.....	2		
<b>Idaho:</b>				Madison County.....			9
Kootenai County.....	3			Marion County.....			8
				Morgan County.....		2	
<b>Illinois:</b>				Orange County.....		1	
Adams County.....	1	1	2	Randolph County.....			1
Bond County.....	1			St. Joseph County.....	1		1
Champaign County.....		1		Shelby County.....		1	1
Clark County.....		1	2	Switzerland County.....		1	
Clinton County.....		1	1	Tippecanoe County.....		2	
Coles County.....	1		1	Union County.....			
Cook County.....	4	16	13	Vanderburgh County.....	1		
Crawford County.....	1	1	4	Vigo County.....	2		
Cumberland.....			1	Wells County.....			1
Douglas County.....	8	3		Total.....	13	14	33
Edgar County.....		3					
Franklin County.....		1		<b>Iowa:<sup>1</sup></b>			
Fulton County.....			1	Black Hawk County.....	1		
Gallatin County.....	1			Boone County.....			1
Grundy County.....			1	Delaware County.....		1	
Hancock County.....		1		Fayette County.....			1
Henry County.....		1	2	Harrison County.....			1
Kane County.....		3	3	Lee County.....	1		
Kankakee County.....	1		1	Total.....	2	1	3

<sup>1</sup> Typhoid fever is not required by law to be reported in Iowa.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Kansas:</b>				<b>Louisiana—Continued.</b>			
Atchison County.....	2			Vernon Parish.....	1		1
Bourbon County.....	1			Washington Parish.....		10	6
Brown County.....	1	3		West Feliciana Parish.....	1		
Butler County.....	1	2	3	<b>Total.....</b>	<b>47</b>	<b>64</b>	<b>110</b>
Chautauqua County.....		1		<b>Maine:</b>			
Cloud County.....			1	Androscoggin County.....	1	1	
Cowley County.....		2	1	Aroostook County.....	3	1	
Crawford County.....	1	1	3	Cumberland County.....	1	4	
Doniphan County.....		1		Kennebec County.....	1		
Douglas County.....	1			Penobscot County.....	2		
Harper County.....		1	1	Somerset County.....	1		
Jefferson County.....			1	<b>Total.....</b>	<b>9</b>	<b>6</b>	<b>(1)</b>
Jewell County.....			2	<b>Maryland:</b>			
Labette County.....			1	Allegany County.....	4	1	7
Linn County.....		1		Baltimore City.....	12	12	9
Lyon County.....				Baltimore County.....		1	1
Marion County.....			3	Calvert County.....			1
Montgomery County.....	2	1		Caroline County.....			1
Neosho County.....	1	1		Carroll County.....	1		1
Osage County.....		5	1	Charles County.....	1		2
Osborne County.....			1	Cecil County.....		5	5
Ottawa County.....			1	Frederick County.....		1	1
Pratt County.....	1			Harford County.....			3
Reno County.....		2	1	Kent County.....	1		
Republic County.....	1	1	1	Montgomery County.....	1	1	1
Saline County.....	1	1	1	Prince Georges County.....	2	1	4
Sedgwick County.....	2		3	Somerset County.....	4	7	2
Shawnee County.....			1	Washington County.....		1	5
Sumner County.....			4	Wicomico County.....	1		3
Wyandotte County.....		1	3	Worcester County.....	1	4	5
<b>Total.....</b>	<b>15</b>	<b>22</b>	<b>35</b>	<b>Total.....</b>	<b>28</b>	<b>34</b>	<b>51</b>
<b>Louisiana:</b>				<b>Massachusetts:</b>			
Acadia Parish.....	2		1	Berkshire County.....		3	4
Allen Parish.....		2	2	Bristol County.....	4	4	8
Assumption Parish.....	1			Essex County.....	12	6	6
Avoynes Parish.....			1	Hampden County.....	2	1	2
Beauregard Parish.....	2		3	Hampshire County.....			2
Bienville Parish.....		1		Middlesex County.....	4	10	13
Caddo Parish.....	3	6	12	Norfolk County.....	2	8	4
Calcasieu Parish.....		6		Plymouth County.....	2		
Caldwell Parish.....		2	1	Suffolk County.....	10	14	3
Claborn Parish.....		1		Worcester County.....	5	5	2
De Soto Parish.....	3	1	3	<b>Total.....</b>	<b>41</b>	<b>51</b>	<b>44</b>
East Baton Rouge Parish.....	1		4	<b>Michigan:</b>			
East Feliciana Parish.....		1		Allegan County.....	1		1
Franklin Parish.....			2	Bay County.....	4	5	2
Iberia Parish.....	2			Berrien County.....		1	1
Iberville Parish.....			4	Delta County.....			1
Jefferson Parish.....			2	Dickinson County.....	1		
Jefferson Davis Parish.....	3		4	Eaton County.....	1	5	1
Lafayette Parish.....		1		Genesee County.....			1
Lafourche Parish.....		2	5	Gogebic County.....		1	
Lincoln Parish.....			2	Gladwin County.....			1
Livingston Parish.....			6	Houghton County.....			1
Natchitoches Parish.....	1	2	6	Huron County.....			1
Orleans Parish.....	10	13	14	Ingham County.....	1	1	1
Ouachita Parish.....	8		2	Isabella County.....	1		
Plaquemines Parish.....		1	7	Kent County.....		1	7
Rapides Parish.....			2	Lenawee County.....	1		1
Richland Parish.....	1		2	Macomb County.....	2	1	
St. Charles Parish.....				Mason County.....	1		1
St. Helena Parish.....	2			Midland County.....	1	1	
St. James Parish.....		7	1	Monroe County.....	1		
St. Landry Parish.....	2			Montcalm County.....		2	1
St. Martin Parish.....		2		Muskegon County.....	2	2	4
St. Mary Parish.....	1		1				
Tangipahoa Parish.....		1	2				
Tensas Parish.....			1				
Terrebonne Parish.....	1	5	4				
Vermilion Parish.....	1		9				

1 Report for month of June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Michigan—Continued.</b>				<b>Mississippi—Continued.</b>			
Oakland County.....		1	2	Lawrence County.....	1		1
Ottawa County.....			1	Leake County.....	1		3
Saginaw County.....	5	5	3	Lee County.....	3	2	1
St. Clair County.....	2	2	3	Leflore County.....	2	3	5
St. Joseph County.....	3		2	Lincoln County.....			3
Sanilac County.....			1	Lowndes County.....	2	1	1
Shiawassee County.....		1		Madison County.....	4	1	
Van Buren County.....	2			Marion County.....			4
Wayne County.....	12	6	12	Monroe County.....	2		3
<b>Total.....</b>	<b>41</b>	<b>35</b>	<b>49</b>	Marshall County.....			1
<b>Minnesota:</b>				Montgomery County.....	1	1	2
Aitkin County.....	1			Newton County.....			3
Becker County.....	2		1	Noxubee County.....			2
Beltrami County.....		1		Panola County.....	4	2	2
Blue Earth County.....	1			Pearl River County.....			2
Crow Wing County.....	1	1	1	Perry County.....		1	1
Dakota County.....	1		1	Pike County.....	3	6	5
Fillmore County.....	1	1	1	Pontotoc County.....		2	2
Goodhue County.....	2	1		Prentiss County.....		10	3
Hennepin County.....	4	4	6	Quitman County.....			2
Hubbard County.....			1	Rankin County.....	3	2	3
Itasca County.....			1	Scott County.....	1	12	
Koochiching County.....	1		1	Simpson County.....	2	2	
Lake County.....			1	Smith County.....		2	
Lyon County.....			1	Sunflower County.....	1	3	7
McLeod County.....		3		Tallahatchie County.....	4	1	4
Mille Lacs County.....	1			Tate County.....		2	7
Nicollet County.....			1	Tippah County.....			1
Olmsted County.....	3	1	2	Tishomingo County.....			7
Ottertail County.....		2	1	Tunica County.....	1	1	
Fennington County.....	1	1	1	Union County.....		1	
Polk County.....	3			Waltham County.....			2
Ramsey County.....	4	1	6	Warren County.....	1	2	2
Redwood County.....	1	1		Washington County.....	3	2	3
St. Louis County.....		5	2	Wayne County.....			2
Sherburne County.....			1	Webster County.....	1	5	
Watowan County.....	2			Wilkinson County.....	2		
Wright County.....	1			Winston County.....			1
<b>Total.....</b>	<b>29</b>	<b>21</b>	<b>29</b>	Yazoo County.....	1		
<b>Mississippi:</b>				<b>Total.....</b>	<b>84</b>	<b>125</b>	<b>173</b>
Adams County.....	1	2	2	<b>Montana:</b>			
Alcorn County.....		20	1	Blaine County.....		5	1
Amite County.....	4		1	Broadwater County.....			1
Attala County.....			3	Fergus County.....		2	
Bolivar County.....	5	6	14	Flathead County.....		1	
Calhoun County.....			1	Hill County.....	1	1	
Carroll County.....		1		Rosebud County.....		1	
Chickasaw County.....	3	1		Treasure County.....	1		
Choctaw County.....			1	Valley County.....	1		
Clarke County.....		2	5	Yellowstone County.....	2		1
Clay County.....		3	4	<b>Total.....</b>	<b>5</b>	<b>11</b>	<b>2</b>
Coahoma County.....			1	<b>Nebraska:</b>			
Copiah County.....	11	3	19	Gage County.....	3		
Covington County.....			2	Phelps County.....	1		
De Soto County.....	5	1	3	<b>Total.....</b>	<b>4</b>	<b>1</b>	<b>13</b>
Forrest County.....	1	1	1	<b>New Jersey:</b>			
Franklin County.....	1	3	1	Bergen County.....			2
Greene County.....		3	1	Burlington County.....	1	1	1
Harrison County.....	1	1		Camden County.....	1	1	1
Hinds County.....	1		5	Cape May County.....			
Holmes County.....	1	5	1	Essex County.....	3	3	4
Itawamba County.....			1	Gloucester County.....	1	1	4
Jackson County.....	1			Hudson County.....	1	1	4
Jasper County.....		1		Mercer County.....	5	5	3
Jefferson Davis County.....	1	2	4	Middlesex County.....		1	1
Jones County.....	2	2	4	Monmouth County.....		2	3
Kemper County.....	1	2		Morris County.....			38
Lafayette County.....	1	2	1	Passaic County.....	1	5	1
Lamar County.....			6				
Lauderdale County.....		1	6				

¹ Counties not given.



## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>New Jersey—Continued.</b>				<b>North Carolina—Continued.</b>			
Salem County.....			1	Beaufort County.....	1		3
Somerset County.....	1		1	Bertie County.....			1
Union County.....	5		5	Bladen County.....		4	
<b>Total.....</b>	<b>19</b>	<b>20</b>	<b>65</b>	Brunswick County.....	1		
<b>New Mexico:</b>				Buncombe County.....	1	2	2
Bernalillo County.....			1	Cabarrus County.....			3
Chaves County.....	1		3	Caldwell County.....			4
Colfax County.....			1	Catawba County.....		1	1
Dona Ana County.....		1		Chatham County.....		1	
Eddy County.....			1	Clay County.....		1	
Hidalgo County.....		1		Cleveland County.....		1	1
Mora County.....	1			Columbus County.....		1	
Quay County.....	1			Craven County.....	2		1
Rio Arriba County.....			1	Cumberland County.....			2
Taos County.....	3			Davidson County.....		3	3
Union County.....			1	Duplin County.....			1
<b>Total.....</b>	<b>6</b>	<b>2</b>	<b>8</b>	Durham County.....		4	2
<b>New York:</b>				Edgecombe County.....	5		1
Albany County.....	6	4	6	Forsyth County.....	1	2	1
Allegany County.....		1	2	Franklin County.....			3
Broome County—				Gaston County.....		1	5
Johnson City.....	5	24	7	Granville County.....		1	
Scattering.....	7	4	2	Greene County.....			1
Cattaraugus County.....		1	2	Guilford County.....			5
Chautauqua County.....			1	Halifax County.....			3
Chemung County.....	1	3	2	Harnett County.....			1
Clinton County.....		2	1	Haywood County.....			1
Columbia County.....			1	Henderson County.....			1
Cortland County.....			1	Iredell County.....			3
Delaware County.....	1	1		Johnston County.....	1	2	9
Dutchess County.....	1	1	2	Lenoir County.....			1
Erie County.....	1	6	2	Lincoln County.....			3
Franklin County.....		1		Martin County.....	1		2
Genesee County.....			1	Mecklenburg County.....			2
Herkimer County.....	1			Nash County.....			1
Jefferson County.....		1	2	New Hanover County.....		1	
Livingston County.....	2	1		Northampton County.....			2
Monroe County.....	5	1	2	Onslow County.....			2
Montgomery County.....		2		Orange County.....			1
Nassau County.....	1	2		Pender County.....		7	5
New York City.....	42	37	55	Perquimans County.....			4
Niagara County.....		4		Person County.....			4
Oneida County.....		1	4	Pitt County.....		4	9
Onondaga County.....	4	4	5	Polk County.....	1		
Ontario County.....		2	1	•Randolph County.....		1	2
Orange County.....		2	1	Richmond County.....			3
Orleans County.....	2		3	Robeson County.....	2	1	8
Oswego County.....	1	4	1	Rockingham County.....		1	2
Otsego County.....	1	1	1	Rowan County.....	1	1	2
Rensselaer County.....	1			Sampson County.....	4	6	3
St. Lawrence County.....		2	2	Stanly County.....			1
Saratoga County.....			1	Surry County.....		2	1
Schoharie County.....			1	Swain County.....			1
Schuyler County.....		1		Union County.....		1	7
Seneca County.....			1	Vance County.....			1
Steuben County—				Wake County.....		2	4
Corning.....	18	5	3	Warren County.....	1		
Scattering.....	1	2	2	Washington County.....			2
Suffolk County.....	1		3	Wayne County.....	1	1	3
Sullivan County.....	5			Wilkes County.....			1
Tompkins County.....			1	Wilson County.....	2		6
Ulster County.....	1	1	1	Yadkin County.....			5
Warren County.....	2			<b>Total.....</b>	<b>26</b>	<b>54</b>	<b>148</b>
Washington County.....	1		1	<b>North Dakota:</b>			
Wayne County.....	1			Cass County.....	1		
Westchester County.....	1	1	4	Cavalier County.....	2		
<b>Total.....</b>	<b>113</b>	<b>122</b>	<b>126</b>	McLean County.....		1	
<b>North Carolina:</b>				Nelson County.....			1
Alamance County.....	1	2		Renville County.....	1		
Anson County.....			1	Richland County.....		1	
Ashe County.....			1	Stark County.....			1
				<b>Total.....</b>	<b>4</b>	<b>3</b>	<b>1</b>

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Ohio:</b>				<b>Oregon:</b>			
Adams County.....		3		Clackamas County.....			1
Allen County.....	4		2	Clatsop County.....			1
Ashland County.....			1	Columbia County.....	1		
Ashtabula County.....			1	Cosco County.....	1		
Athens County.....	1			Douglas County.....			5
Belmont County.....	2	1	1	Gilliam County.....		1	
Brown County.....			1	Lane County.....	1		1
Butler County.....		1		Linn County.....			2
Clinton County.....			3	Malheur County.....			1
Columbiana County.....		1	4	Multnomah County.....		1	1
Coshocton County.....	3			Union County.....			1
Cuyahoga County.....	12	10	16	<b>Total.....</b>	<b>3</b>	<b>2</b>	<b>13</b>
Darke County.....		3	1				
Delaware County.....			2	<b>Pennsylvania:</b>			
Erie County.....			1	Adams County.....	1		
Fairfield County.....		1		Allegheny County.....	7	5	15
Franklin County.....	1		2	Armstrong County.....	2	6	3
Guernsey County.....			1	Beaver County.....	4	5	1
Hamilton County.....	4	8	5	Bedford County.....			1
Hancock County.....			1	Berks County.....	5	2	4
Hardin County.....		1	1	Blair County.....	2	2	
Henry County.....		1		Bradford County.....	1	1	3
Huron County.....			1	Bucks County.....	1	4	2
Jefferson County.....	2	3	1	Butler County.....			11
Knox County.....			1	Cambria County.....	1	1	1
Lake County.....			1	Center County.....	2	2	
Licking County.....		2	3	Chester County.....	1	5	4
Logan County.....			4	Clearfield County.....	1	2	13
Lorain County.....	1	3	2	Columbia County.....		1	
Lucas County.....	1	2	4	Cumberland County.....	1	3	1
Madison County.....		1	3	Dauphin County.....	3	1	1
Medina County.....			1	Delaware County.....	2	1	1
Mahoning County.....		2		Erie County.....	1		
Meigs County.....			1	Fayette County.....	3	1	3
Miami County.....	2		1	Franklin County.....	1		2
Montgomery County.....	1	1	1	Greene County.....			1
Muskingum County.....	2	1	1	Huntingdon County.....	4	6	
Noble County.....			1	Indiana County.....			6
Paulding County.....	1			Jefferson County.....			4
Perry County.....			1	Juniata County.....			1
Pike County.....			1	Lackawanna County.....			1
Portage County.....		1		Lancaster County.....	3	2	2
Richland County.....	3	1		Lawrence County.....		2	1
Scioto County.....	4	1	4	Lebanon County.....		1	
Summit County.....	10	2	1	Lehigh County.....	4	3	3
Trumbull County.....		1		Luzerne County.....		2	2
Tuscarawas County.....	1	4	3	Lycoming County.....	2	3	
Van Wert County.....			1	Mercer County.....		2	5
Washington County.....			1	Monroe County.....			1
Wayne County.....	1	4	2	Montgomery County.....	3	2	5
<b>Total.....</b>	<b>56</b>	<b>59</b>	<b>80</b>	Montour County.....			2
				Northampton County.....		2	3
<b>Oklahoma:</b>				Northumberland County.....	3		
Bryan County.....		1		Perry County.....	1		
Cherokee County.....		1		Philadelphia County.....	12	5	9
Choctaw County.....		2		Schuylkill County.....		8	12
Custer County.....		2		Snyder County.....		1	2
Ellis County.....		1		Somerset County.....		1	1
Grady County.....	1			Tioga County.....	1	3	
Hughes County.....	5			Venango County.....			1
McIntosh County.....		1		Warren County.....			2
Mayes County.....		2		Washington County.....	3	4	5
Ossage County.....	3			Westmoreland County.....	20	5	4
Pontotoc County.....	2			Wyoming County.....		1	1
Pushmataha County.....	1			York County.....	6	1	4
Rogers County.....		1		<b>Total.....</b>	<b>101</b>	<b>96</b>	<b>144</b>
Seminole County.....	4						
Woods County.....	3			<b>Rhode Island:</b>			
<b>Total.....</b>	<b>19</b>	<b>11</b>	<b>(1)</b>	Providence County.....		3	2

1 Report for June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>South Carolina:</b>				<b>Virginia—Continued.</b>			
Abbeville County.....			1	Isle of Wight County.....			5
Anderson County.....	1		1	King and Queen County.....		1	2
Cherokee County.....			5	King William County.....	2		
Chester County.....			20	Lancaster County.....	1		
Chesterfield County.....		1	3	Lee County.....	1		
Darlington County.....			2	Loudoun County.....			5
Greenville County.....	4	9	42	Louisa County.....	1		
Greenwood County.....			2	Lunenburg County.....		1	
Hampton County.....			1	Madison County.....	1		
Laurens County.....			4	Mecklenburg County.....	4	2	
Lexington County.....		1	7	Middlesex County.....			1
Marion County.....	1			Montgomery County.....		2	8
Marlboro County.....			2	Nelson County.....	1	1	
Oconee County.....		1	1	New Kent County.....			1
Richland County.....	1	6	7	Norfolk County.....	10	6	6
Spartanburg County.....	1	3	2	Northampton County.....			1
Sumter County.....		5		Northumberland County.....			1
York County.....			1	Nottoway County.....			1
<b>Total.....</b>	<b>8</b>	<b>26</b>	<b>101</b>	Orange County.....			1
<b>South Dakota:</b>				Page County.....	2		
Clark County.....		4		Patrick County.....		2	
Day County.....		3	1	Pittsylvania County.....			4
Dewey County.....	2			Prince Edward County.....	3	1	1
Grant County.....		1	1	Pulaski County.....		4	
Kingsbury County.....		1	2	Rappahannock County.....	2	2	
Pennington County.....		1		Richmond County.....	4		
Spink County.....		1	1	Roanoke County.....			3
Walworth County.....		1		Rockbridge County.....		1	1
Yankton County.....		1		Rockingham County.....		1	2
<b>Total.....</b>	<b>2</b>	<b>13</b>	<b>5</b>	Russell County.....		1	
<b>Vermont:</b>				Scott County.....		2	
Addison County.....			3	Shenandoah County.....	3		2
Franklin County.....	3	1	1	Smyth County.....		2	3
Orleans County.....		1		Southampton County.....			13
Rutland County.....	1	1		Surry County.....		1	1
Windsor County.....	1	1		Sussex County.....			3
<b>Total.....</b>	<b>5</b>	<b>4</b>	<b>4</b>	Tazewell County.....	1	3	3
<b>Virginia:</b>				Washington County.....	1		6
Accomac County.....	5	9	4	Westmoreland County.....			2
Alleghany County.....			3	Wise County.....	1		
Amelia County.....			4	Wythe County.....	1		1
Augusta County.....			1	<b>Total.....</b>	<b>66</b>	<b>59</b>	<b>152</b>
Bland County.....	1	1		<b>Washington:</b>			
Botetourt County.....			1	Asotin County.....			1
Brunswick County.....	1		1	Chelan County.....	1		1
Buchanan County.....	3	2	1	Clarke County.....	2	2	
Buckingham County.....			4	Columbia County.....	1		
Campbell County.....	4	1		Cowlitz County.....		1	
Caroline County.....	2			Grays Harbor County.....	1	2	4
Carroll County.....	1	1	3	King County.....	1	1	4
Charles City County.....	1		3	Kitsap County.....		1	
Clarke County.....		2	1	Kittitas County.....			1
Culpeper County.....			3	Klickitat County.....		1	
Dickenson County.....	2	1	4	Lewis County.....	1	1	1
Elizabeth City County.....	2		8	Lincoln County.....			1
Fairfax County.....	1			Pend Oreille County.....	4	4	
Fauquier County.....			1	Pierce County.....	2	1	1
Floyd County.....			2	Skagit County.....	1		1
Franklin County.....		1		Snohomish County.....	1		1
Frederick County.....	1	2	2	Spokane County.....	1	2	1
Giles County.....	2	1	4	Stevens County.....	1		
Gloucester County.....			1	Thurston County.....	13	1	
Grayson County.....	1	3	4	Walla Walla County.....			2
Greene County.....			1	Whitman County.....	1		1
Greensville County.....			1	Yakima County.....		1	6
Halifax County.....	1			<b>Total.....</b>	<b>31</b>	<b>18</b>	<b>26</b>
Hanover County—				<b>West Virginia:</b>			
Richmond.....		1	11	Barbour County.....	2		3
Scattering.....		1	1	Berkeley County.....			2
Henry County.....			6	Boone County.....	1		3
				Braxton County.....	3	5	1
				Brooke County.....			1

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## TYPHOID FEVER—Continued.

Place.	New cases reported.			Place.	New cases reported.		
	April.	May.	June.		April.	May.	June.
West Virginia—Continued.				Wisconsin:			
Cabell County.....		1	11	Barron County.....	1		
Clay County.....	3			Bayfield County.....	1		
Fayette County.....	2		3	Brown County.....	2	1	
Glimmer County.....			2	Buffalo County.....			1
Grant County.....	1			Columbia County.....			1
Greenbrier County.....		4		Dodge County.....		2	
Hancock County.....			1	Douglas County.....		2	
Harrison County.....		1	3	Eau Claire County.....	1	1	2
Jackson County.....		1	1	Grant County.....	1		
Jefferson County.....			3	Kenosha County.....	1	1	
Kanawha County.....	3	2	26	Lafayette County.....	1		1
Lewis County.....		4	2	Manitowoc County.....	7		
Lincoln County.....			1	Marathon County.....	1		
Logan County.....	5	1	2	Milwaukee County.....	3	1	
McDowell County.....			2	Outagamie County.....	1		2
Marion County.....	7	1	5	Pierce County.....			1
Mercer County.....	1		4	Portage County.....	1		
Mineral County.....			1	Racine County.....	1	1	
Mingo County.....	5		1	Rock County.....	1	2	2
Monroe County.....			4	Sauk County.....	2		
Ohio County.....	2	2	4	Sheboygan County.....	1	1	
Pleasants County.....		1		Taylor County.....			1
Preston County.....			1	Trempealeau County.....			1
Roane County.....		4	4	Waukesha County.....		2	
Summers County.....	3	3		Winnebago County.....	1	6	
Taylor County.....		2	1				
Tucker County.....	1	1		Total.....	24	22	10
Tyler County.....			1				
Webster County.....			1	Wyoming:			
Wyoming County.....	1		3	Hot Springs County.....		1	
Total.....	40	33	97	Lincoln County.....	1		
				Natrona County.....		2	1
				Total.....	1	3	1

## TYPHUS FEVER.

Maryland.....	1		Massachusetts.....	1	
---------------	---	--	--------------------	---	--

## SUMMARY OF DISEASES.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
Alabama:				Alabama—Continued.			
Anthrax.....		1		Trachoma.....		1	
Chicken pox.....	123	196		Tuberculosis (all forms).....	161	200	162
Dengue.....	14	13	11	Typhoid fever.....	54	117	206
Diphtheria.....	55	69	28	Whooping cough.....	216	451	
Dysentery.....	24	230	720	Arizona:			
German measles.....	10	3		Chicken pox.....	65	15	22
Influenza.....	1,521	350	115	Diphtheria.....	11	20	17
Lethargic encephalitis.....	1	2		Dysentery.....	2		
Malaria.....	238	482	465	Influenza.....	1		1
Measles.....	3,640	6,841	1,680	Malta fever.....			
Mumps.....	31	33		Measles.....	157	163	56
Paratyphoid fever.....			2	Mumps.....	61	18	5
Pellagra.....	48	96	135	Pellagra.....			1
Pneumonia (all forms).....	463	295	92	Pneumonia (all forms).....	7	3	2
Polioimyelitis.....		1	1	Rocky Mountain spotted or tick fever.....			1
Rabies.....	1			Scarlet fever.....	65	68	64
Scarlet fever.....	41	28	26	Smallpox.....	11	6	4
Smallpox.....	66	57	45	Trachoma.....	1		
Tetanus.....	5						

<sup>1</sup> Many old cases reported at hospitals at Tucson and Prescott.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Arizona—Continued.</b>				<b>Colorado—Continued.</b>			
Tuberculosis (all forms).....	38	1 686	1 265	Septic sore throat.....	1	1	.....
Typhoid fever.....	2	8	11	Smallpox.....	4	2	1
Whooping cough.....	32	6	9	Trachoma.....	.....	.....	2
<b>Arkansas:</b>				Tuberculosis (all forms).....	131	83	460
Cerebrospinal meningitis (epidemic).....	2	5	1	Typhoid fever.....	10	12	21
Chicken pox.....	107	111	30	Whooping cough.....	277	233	162
Dengue.....	.....	4	.....	<b>Connecticut:</b>			
Diphtheria.....	14	9	18	Cerebrospinal meningitis (epidemic).....	5	10	5
Dysentery.....	3	.....	.....	Chicken pox.....	161	220	238
Hookworm disease.....	.....	4	3	Conjunctivitis (infectious).....	15	25	5
Influenza.....	607	221	24	Diphtheria.....	178	225	136
Lethargic encephalitis.....	1	.....	.....	Dysentery (amebic).....	.....	1	1
Malaria.....	119	331	397	Dysentery (bacillary).....	.....	.....	1
Measles.....	791	1,479	537	Favus.....	1	.....	.....
Mumps.....	25	50	37	German measles.....	10	56	91
Paratyphoid fever.....	4	3	1	Influenza.....	49	16	2
Pellagra.....	17	42	76	Lethargic encephalitis.....	14	6	6
Scarlet fever.....	9	15	7	Malaria.....	.....	2	10
Smallpox.....	17	53	37	Measles.....	993	1,035	556
Trachoma.....	5	10	.....	Mumps.....	175	82	80
Tuberculosis (all forms).....	51	54	41	Occupational diseases and disabilities.....	1	2	3
Typhoid fever.....	7	38	30	Paratyphoid fever.....	2	.....	.....
Whooping cough.....	55	.....	141	Pneumonia (lobar).....	147	93	58
<b>California:</b>				Polio myelitis.....	.....	1	.....
Anthrax.....	1	1	.....	Scarlet fever.....	291	348	230
Cerebrospinal meningitis (epidemic).....	15	7	11	Septic sore throat.....	1	1	.....
Chicken pox.....	1,201	1,331	617	Smallpox.....	11	1	3
Diphtheria.....	623	791	581	Tetanus.....	.....	.....	3
Dysentery (amebic).....	.....	7	3	Trachoma.....	2	.....	.....
Dysentery (bacillary).....	14	9	10	Trichinosis.....	1	.....	.....
German measles.....	108	91	25	Tuberculosis (pulmonary).....	142	163	138
Hookworm disease.....	1	.....	.....	Tuberculosis (other forms).....	11	13	11
Influenza.....	510	599	75	Typhoid fever.....	7	12	9
Jaundice (epidemic).....	.....	5	2	Whooping cough.....	276	225	262
Leprosy.....	2	5	4	<b>Delaware:</b>			
Lethargic encephalitis.....	17	10	11	Chicken pox.....	.....	13	12
Malaria.....	14	17	9	Diphtheria.....	6	19	16
Measles.....	4,351	6,165	3,712	Influenza.....	1	.....	4
Mumps.....	132	159	85	Malaria.....	4	5	5
Ophthalmia neonatorum.....	2	5	1	Measles.....	116	114	71
Paratyphoid fever.....	.....	3	.....	Mumps.....	1	1	.....
Pellagra.....	6	4	1	Pneumonia (all forms).....	11	8	8
Pneumonia (lobar).....	307	302	246	Scarlet fever.....	25	42	33
Polio myelitis.....	2	8	5	Tuberculosis (all forms).....	13	16	16
Rabies in man.....	.....	1	2	Typhoid fever.....	1	1	4
Rocky Mountain spotted or tick fever.....	1	.....	.....	Whooping cough.....	1	17	22
Scarlet fever.....	681	875	517	<b>District of Columbia:</b>			
Smallpox.....	112	169	93	Chicken pox.....	109	97	81
Tetanus.....	4	2	4	Diphtheria.....	45	27	19
Trachoma.....	50	33	27	Influenza.....	18	6	2
Tuberculosis (all forms).....	752	743	615	Leprosy.....	.....	1	.....
Typhoid fever.....	37	67	75	Lethargic encephalitis.....	1	2	.....
Whooping cough.....	892	1,088	463	Measles.....	3,182	1,825	430
<b>Colorado:</b>				Scarlet fever.....	120	137	56
Cerebrospinal meningitis (epidemic).....	1	.....	2	Smallpox.....	1	.....	.....
Chicken pox.....	161	113	80	Tuberculosis (all forms).....	110	122	73
Diphtheria.....	203	216	169	Typhoid fever.....	1	7	13
Impetigo contagiosa.....	2	.....	.....	Whooping cough.....	208	179	82
Influenza.....	16	3	.....	<b>Florida:</b>			
Lethargic encephalitis.....	.....	1	.....	Cerebrospinal meningitis (epidemic).....	2	1	4
Measles.....	1,225	2,362	1,090	Chicken pox.....	79	43	15
Mumps.....	159	140	64	Dengue.....	5	6	1
Ophthalmia neonatorum.....	3	1	.....	Diphtheria.....	25	29	18
Paratyphoid fever.....	.....	.....	6	Dysentery.....	11	10	6
Pneumonia (all forms).....	50	17	8	German measles.....	2	.....	6
Rabies.....	.....	.....	1	Hookworm disease.....	71	80	80
Rocky Mountain spotted or tick fever.....	.....	1	.....	Influenza.....	25	120	21
Scarlet fever.....	221	172	77	Leprosy.....	.....	1	3

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Florida—Continued.</b>				<b>Illinois—Continued.</b>			
Lethargic encephalitis.....		2	.....	Paratyphoid.....	2	.....	.....
Malaria.....	28	65	77	Pneumonia (all forms).....	2,439	1,497	718
Measles.....	276	664	378	Polioimyelitis.....	8	5	4
Mumps.....		4	5	Puerperal septicemia.....	4	7	4
Ophthalmia neonatorum.....			1	Scarlet fever.....	816	739	475
Paratyphoid fever.....			2	Septic sore throat.....	20	8	8
Pellagra.....	2	13	7	Smallpox.....	50	67	128
Pneumonia (all forms).....	16	149	68	Trachoma.....	6	6	5
Polioimyelitis.....		3	2	Tetanus.....	1	3	13
Rabies.....		1	.....	Tuberculosis (all forms).....	1,403	1,609	1,349
Scarlet fever.....	10	7	4	Typhoid fever.....	52	54	68
Smallpox.....	13	21	18	Whooping cough.....	1,095	947	892
Tetanus.....	1	8	3	<b>Indiana:</b>			
Trachoma.....		3	.....	Cerebrospinal meningi-			
Trichinosis.....		1	.....	tis (epidemic).....	6	8	13
Tuberculosis (all forms).....	53	151	104	Diphtheria.....	186	162	129
Typhoid fever.....	61	89	54	Influenza.....	65	19	2
Whooping cough.....	41	115	75	Measles.....	4,416	5,421	3,895
<b>Hawaii:</b>				Pneumonia (all forms).....	43	19	5
Cerebrospinal meningi-				Polioimyelitis.....		1	3
tis (epidemic).....	2	.....	.....	Scarlet fever.....	346	271	199
Chicken pox.....	13	16	13	Smallpox.....	204	243	236
Diphtheria.....	16	11	13	Tuberculosis (all forms).....	67	109	147
Dysentery (amebic).....	2		1	Typhoid fever.....	13	14	33
Hookworm disease.....		4	.....	<b>Iowa:</b>			
Influenza.....	51	938	490	Cerebrospinal meningi-			
Leprosy.....	7	7	8	tis (epidemic).....	1	.....	.....
Measles.....	93	43	27	Chicken pox.....	86	62	32
Paratyphoid fever.....			1	Diphtheria.....	100	72	61
Polioimyelitis.....	2	.....	.....	Dysentery.....	3	.....	1
Scarlet fever.....	3	2	1	Influenza.....	10	.....	.....
Smallpox.....	1	.....	.....	Measles.....	517	738	407
Tetanus.....		5	.....	Mumps.....	98	53	10
Trachoma.....	3	14	1	Pneumonia (all forms).....	38	13	4
Tuberculosis (all forms).....	95	98	84	Polioimyelitis.....	1	1	.....
Typhoid fever.....	13	12	12	Scarlet fever.....	493	387	166
Whooping cough.....	242	82	29	Smallpox.....	115	153	103
<b>Idaho:</b>				Tuberculosis (all forms).....	10	8	15
Chicken pox.....	28	31	1	Typhoid fever <sup>1</sup> .....	2	1	3
Conjunctivitis (epi-				Whooping cough.....	56	69	82
demic).....	2	.....	.....	<b>Kansas:</b>			
Diphtheria.....	13	16	2	Cerebrospinal meningi-			
Measles.....	30	13	3	tis (epidemic).....	2	2	1
Mumps.....	6	3	.....	Chicken pox.....	248	189	114
Rocky Mountain				Diphtheria.....	134	109	90
spotted or tick fever.....	3	1	17	Favus.....	1	.....	.....
Scarlet fever.....	14	11	2	German measles.....	2	3	8
Septic sore throat.....	1	.....	.....	Influenza.....	33	7	5
Smallpox.....	14	3	4	Lethargic encephalitis.....	10	1	1
Trachoma.....	1	1	.....	Malaria.....	2	.....	1
Tuberculosis (pulmo-				Measles.....	2,070	3,347	1,698
nary).....			1	Mumps.....	373	298	128
Tuberculosis (all forms).....	2	23	.....	Ophthalmia neonatorum	1	.....	.....
Typhoid fever.....	3	.....	.....	Pneumonia (all forms).....	159	90	27
Whooping cough.....	46	37	7	Polioimyelitis.....		.....	1
<b>Illinois:</b>				Rabies (in man).....		.....	2
Actinomycosis.....	1	.....	.....	Scarlet fever.....	200	175	108
Anthrax.....			1	Smallpox.....	56	53	33
Cerebrospinal meningi-				Trachoma.....	1	2	.....
tis (epidemic).....	17	9	6	Tetanus.....	3	.....	.....
Chicken pox.....	875	743	889	Tuberculosis (all forms).....	223	254	235
Diphtheria.....	727	678	532	Typhoid fever.....	15	22	35
Dysentery.....	128	119	98	Whooping cough.....	463	240	402
German measles.....	55	49	50	<b>Louisiana:</b>			
Influenza.....	627	110	14	Anthrax.....			3
Leprosy.....	1	.....	.....	Cerebrospinal meningi-			
Lethargic encephalitis.....	19	7	11	tis (epidemic).....	4	2	4
Malaria.....	6	4	5	Chicken pox.....	523	10	5
Measles.....	10,345	12,049	6,320	Dengue.....	15	1	2
Mumps.....	847	925	681	Diphtheria.....	50	53	42
Occupational diseases				Dysentery.....	3	12	8
and disabilities.....	2	13	12	Hookworm disease.....	47	40	112
Ophthalmia neonatorum	32	43	45	Influenza.....	399	66	62

<sup>1</sup> Cases not reported before death.<sup>2</sup> Typhoid fever is not required by law to be reported in Iowa.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Louisiana—Continued.</b>				<b>Massachusetts—Continued.</b>			
Leprosy.....	1	1	1	Malaria.....	5	2	2
Lethargic encephalitis...	3	1	1	Measles.....	3,866	4,360	2,985
Malaria.....	48	58	116	Mumps.....	1,032	1,051	720
Measles.....	49	345	628	Occupational diseases and disabilities.....	8	9	4
Mumps.....	4	17	8	Ophthalmia neonatorum.....	62	73	61
Pellagra.....	8	36	30	Pellagra.....	1	1	1
Pneumonia (all forms)...	161	128	50	Pneumonia (lobar).....	463	342	165
Polioimyelitis.....	1	2	4	Polioimyelitis.....	6	5	4
Rabies.....	1	1	1	Scarlet fever.....	1,421	1,472	1,057
Scarlet fever.....	20	12	5	Septic sore throat.....	6	81	14
Smallpox.....	132	80	20	Tetanus.....	1	1	8
Trachoma.....	1	1	2	Trachoma.....	13	4	5
Tuberculosis (all forms)...	201	181	152	Trichinosis.....	1	1	1
Typhoid fever.....	47	64	110	Tuberculosis (all forms)...	98	762	651
Whooping cough.....	75	118	459	Typhoid fever.....	41	51	44
<b>Maine:</b>				Typhus fever.....	1	1	1
Cerebrospinal meningitis (epidemic).....	3	4	(1)	Whooping cough.....	1,480	1,240	708
Chicken pox.....	46	61	1	<b>Michigan:</b>			
Diphtheria.....	13	19	1	Chicken pox.....	644	568	637
Influenza.....	64	7	1	Diphtheria.....	496	360	462
German measles.....	112	132	1	Influenza.....	49	28	1
Measles.....	620	833	1	Malaria.....	1	1	1
Mumps.....	6	5	1	Measles.....	2,782	8,237	10,219
Paratyphoid fever.....	1	3	1	Mumps.....	228	363	268
Pneumonia.....	59	41	3	Pneumonia (all forms)...	801	816	556
Scarlet fever.....	134	143	1	Polioimyelitis.....	3	1	1
Smallpox.....	72	21	1	Scarlet fever.....	1,356	1,130	928
Tetanus.....	1	1	1	Smallpox.....	116	91	106
Tuberculosis.....	41	48	1	Streptococcic sore throat	10	10	10
Typhoid fever.....	9	6	1	Tuberculosis (all forms)...	302	523	524
Vincent's angina.....	2	2	1	Typhoid fever.....	41	35	49
Whooping cough.....	218	168	1	Whooping cough.....	967	817	867
<b>Maryland:</b>				<b>Minnesota:</b>			
Cerebrospinal meningitis (epidemic).....	1	1	1	Cerebrospinal meningitis (epidemic).....	2	5	7
Chicken pox.....	388	380	294	Chicken pox.....	255	286	202
Diphtheria.....	175	140	110	Diphtheria.....	160	240	169
Dysentery.....	2	2	10	Dysentery.....	9	8	1
German measles.....	14	14	13	Influenza.....	13	2	2
Influenza.....	399	69	30	Lethargic encephalitis.....	9	2	2
Leprosy.....	1	1	1	Measles.....	3,203	3,741	1,272
Lethargic encephalitis.....	5	22	3	Pneumonia (all forms)...	60	24	11
Malaria.....	9	14	14	Polioimyelitis.....	2	2	5
Measles.....	3,600	4,419	2,068	Scarlet fever.....	643	707	432
Mumps.....	282	319	116	Smallpox.....	131	117	88
Ophthalmia neonatorum.....	2	2	2	Trachoma.....	11	1	7
Paratyphoid fever.....	1	1	2	Tuberculosis (all forms)...	318	351	273
Pellagra.....	1	1	1	Typhoid fever.....	29	21	29
Pneumonia (all forms)...	614	447	186	Whooping cough.....	203	173	77
Polioimyelitis.....	4	1	1	<b>Mississippi:</b>			
Scarlet fever.....	383	678	329	Chicken pox.....	514	349	146
Smallpox.....	2	1	1	Dengue.....	22	16	8
Septic sore throat.....	7	4	7	Diphtheria.....	46	40	30
Tetanus.....	1	1	1	Dysentery (amebic).....	9	59	98
Tuberculosis (all forms)...	253	179	257	Dysentery (bacillary)...	231	1,336	3,738
Typhoid fever.....	28	34	51	Hookworm disease.....	243	232	267
Typhus fever.....	1	1	1	Influenza.....	4,901	951	208
Vincent's angina.....	1	1	1	Malaria.....	5,073	6,194	8,520
Whooping cough.....	507	588	524	Measles.....	4,684	3,996	1,668
<b>Massachusetts:</b>				Mumps.....	191	143	61
Actinomycosis.....	1	1	1	Ophthalmia neonatorum.....	9	10	7
Anthrax.....	1	1	1	Pellagra.....	366	674	1,026
Cerebrospinal meningitis (epidemic).....	11	11	5	Pneumonia (all forms)...	1,154	479	193
Chicken pox.....	565	611	699	Polioimyelitis.....	5	4	5
Conjunctivitis (suppurative).....	59	54	165	Puerperal septicemia.....	53	44	42
Diphtheria.....	609	594	613	Scarlet fever.....	16	23	7
German measles.....	107	120	71	Smallpox.....	13	9	13
Influenza.....	79	22	11	Trachoma.....	20	7	6
Hookworm disease.....	1	1	3	Tuberculosis (all forms)...	265	263	259
Lethargic encephalitis.....	23	15	8	Typhoid fever.....	84	125	173
				Whooping cough.....	1,677	1,300	1,481

<sup>1</sup>Report for the month of June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Montana:</b>				<b>New Mexico—Continued.</b>			
Actinomycesis.....			1	Mumps.....	24	12	8
Cerebrospinal meningitis (epidemic).....				Paratyphoid fever.....			6
Chicken pox.....	1	1		Pellagra.....			1
Diphtheria.....	48	41	32	Pneumonia (all forms).....	45	17	13
Influenza.....	43	25	12	Puerperal septicemia.....	1	1	
Lethargic encephalitis.....	35	30		Scarlet fever.....	32	25	22
Measles.....	3	2		Septic sore throat.....		1	
Mumps.....	78	117	101	Smallpox.....	41	16	1
Pneumonia (all forms).....		3		Trachoma.....	1	95	
Rocky Mountain spotted or tick fever.....	13	7	4	Tuberculosis (all forms).....	72	77	38
Scarlet fever.....	8	20	10	Typhoid fever.....	6	2	8
Septic sore throat.....	49	62	60	Whooping cough.....	34	34	13
Smallpox.....	2	1	1	<b>New York:</b>			
Tetanus.....	53	34	25	Anthrax.....		2	2
Trachoma.....		1	1	Botulism.....	1	4	
Tuberculosis (all forms).....	40	60	160	Cerebrospinal meningitis (epidemic).....	23	27	15
Typhoid fever.....	5	11	2	Chicken pox.....	1,465	2,139	2,166
Whooping cough.....	22	9	21	Diphtheria.....	1,131	1,224	1,099
<b>Nebraska:</b>				Dysentery.....			1
Cerebrospinal meningitis (epidemic).....		1	2	German measles.....	183	301	222
Chicken pox.....	45	48	11	Influenza.....	785	188	65
Diphtheria.....	54	34	41	Lethargic encephalitis.....	116	73	48
German measles.....	1	1		Malaria.....	10	17	12
Influenza.....	28			Measles.....	7,806	13,646	12,246
Lethargic encephalitis.....	1			Mumps.....	1,544	1,636	1,192
Measles.....	172	126	51	Ophthalmia neonatorum.....	6	2	4
Mumps.....	127	125	47	Paratyphoid fever.....	6	5	2
Pneumonia (all forms).....	12	3	2	Pneumonia (all forms).....	2,732	2,193	1,339
Poliomyelitis.....	2		1	Poliomyelitis.....	2	17	24
Scarlet fever.....	139	108	35	Puerperal septicemia.....	27	11	27
Septic sore throat.....	1	3		Scarlet fever.....	2,445	2,308	1,539
Smallpox.....	4	12	9	Septic sore throat.....	6	15	7
Tuberculosis (all forms).....	13	3	3	Smallpox.....	27	20	15
Typhoid fever.....	4	1	3	Tetanus.....	5	15	7
Whooping cough.....	144	164	96	Trachoma.....			15
<b>New Jersey:</b>				Tuberculosis (all forms).....	1,897	1,979	1,841
Anthrax.....			2	Typhoid fever.....	113	122	126
Cerebrospinal meningitis (epidemic).....	12	12	7	Vincent's angina.....	9	9	9
Chicken pox.....	563	838	749	Whooping cough.....	1,719	1,515	1,241
Diphtheria.....	441	403	345	<b>North Carolina:</b>			
Dysentery.....			3	Cerebrospinal meningitis (epidemic).....	3	4	7
German measles.....	51	86	48	Chicken pox.....	414	358	198
Influenza.....	158	55	3	Diphtheria.....	132	78	73
Malaria.....		4	18	German measles.....	29	8	7
Measles.....	3,957	4,400	2,442	Measles.....	10,787	10,791	5,457
Occupational diseases and disabilities.....	3	3	7	Ophthalmia neonatorum.....	1	1	2
Ophthalmia neonatorum.....	1		2	Poliomyelitis.....	1		2
Paratyphoid fever.....	1		1	Scarlet fever.....	87	78	60
Pneumonia (all forms).....	548	440	229	Septic sore throat.....	2	8	13
Poliomyelitis.....	2	2	3	Smallpox.....	398	385	239
Rabies (in man).....				Trachoma.....	1		10
Scarlet fever.....	688	617	345	Typhoid fever.....	26	54	148
Smallpox.....		3	1	Whooping cough.....	1,853	2,042	1,673
Trachoma.....	1	18		<b>North Dakota:</b>			
Tuberculosis (all forms).....	517	485	444	Chicken pox.....	153	17	32
Typhoid fever.....	19	20	65	Diphtheria.....	20	22	26
Whooping cough.....	487	449	423	Influenza.....	5		
<b>New Mexico:</b>				Measles.....	142	256	161
Cerebrospinal meningitis (epidemic).....	1			Pneumonia (all forms).....	29	13	10
Chicken pox.....	62	28	3	Poliomyelitis.....		3	1
Conjunctivitis (acute).....		2		Scarlet fever.....	63	59	52
Diphtheria.....	111	79	83	Smallpox.....	36	20	33
Hookworm disease.....		3		Trachoma.....		2	1
Influenza.....	101	3	1	Tuberculosis (all forms).....	11	15	25
Lethargic encephalitis.....		1		Typhoid fever.....	4	3	1
Malta fever.....				Whooping cough.....	26	29	41
Measles.....	158	141	154	<b>Ohio:</b>			
				Cerebrospinal meningitis (epidemic).....	6	4	6
				Chicken pox.....	694	830	770
				Diphtheria.....	477	500	413
				German measles.....	125	76	10

1 26 of these cases U. S. Veterans' Hospital cases.



## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Ohio—Continued.</b>				<b>Pennsylvania—Continued.</b>			
Influenza.....	98	29	5	Scabies.....	62	46	.....
Lethargic encephalitis.....	13	3	4	Scarlet fever.....	1,312	1,153	799
Malaria.....	1	.....	5	Smallpox.....	20	32	33
Measles.....	10,856	11,008	4,424	Tetanus.....	.....	1	.....
Mumps.....	144	106	97	Trachoma.....	4	3	.....
Occupational diseases and disabilities.....	89	80	85	Tuberculosis (all forms).....	616	621	553
Ophthalmia neonatorum.....	138	118	165	Typhoid fever.....	101	96	144
Paratyphoid fever.....	1	3	4	Whooping cough.....	1,723	1,252	1,378
Pneumonia (all forms).....	553	447	257	<b>Rhode Island:</b>			
Polioomyelitis.....	1	3	.....	Cerebrospinal meningitis (epidemic).....	1	3	.....
Puerperal septicemia.....	.....	.....	3	Chicken pox.....	12	11	14
Rabies (in man).....	.....	.....	3	Diphtheria.....	64	56	55
Scarlet fever.....	1,514	1,534	914	Dysentery.....	.....	1	.....
Septic sore throat.....	.....	.....	44	German measles.....	9	12	10
Smallpox.....	426	313	197	Influenza.....	3	.....	.....
Tetanus.....	.....	.....	2	Measles.....	674	497	167
Trachoma.....	27	8	6	Mumps.....	13	10	7
Tuberculosis (all forms).....	639	680	573	Ophthalmia neonatorum.....	3	1	.....
Typhoid fever.....	56	59	80	Pneumonia (all forms).....	16	8	3
Whooping cough.....	809	929	1,026	Scarlet fever.....	54	96	35
<b>Oklahoma:</b>				Septic sore throat.....	3	3	2
Cerebrospinal meningitis (epidemic).....	.....	1	.....	Tetanus.....	1	.....	.....
Chicken pox.....	.....	63	.....	Trachoma.....	.....	2	.....
Diphtheria.....	60	34	.....	Tuberculosis (all forms).....	66	59	48
Dysentery.....	1	26	.....	Typhoid fever.....	.....	3	2
Influenza.....	2,603	154	.....	Whooping cough.....	21	39	26
Lethargic encephalitis.....	2	.....	.....	<b>South Carolina:</b>			
Malaria.....	.....	12	.....	Cerebrospinal meningitis (epidemic).....	.....	1	1
Measles.....	395	850	.....	Chicken pox.....	26	28	21
Pellagra.....	3	9	.....	Diphtheria.....	135	74	75
Pneumonia (all forms).....	395	120	.....	Dysentery.....	39	2	3
Polioomyelitis.....	.....	1	.....	Hookworm disease.....	.....	4	3
Scarlet fever.....	42	37	.....	Influenza.....	32	.....	.....
Small pox.....	264	251	.....	Malaria.....	12	17	.....
Tuberculosis (all forms).....	32	64	.....	Measles.....	91	386	145
Typhoid fever.....	19	11	.....	Mumps.....	3	9	.....
<b>Oregon:</b>				Ophthalmia neonatorum.....	3	.....	3
Chicken pox.....	64	95	80	Pellagra.....	.....	2	5
Diphtheria.....	33	70	54	Pneumonia (all forms).....	12	1	.....
Influenza.....	13	.....	.....	Scarlet fever.....	7	7	8
Lethargic encephalitis.....	2	.....	.....	Septic sore throat.....	.....	.....	8
Measles.....	9	13	27	Smallpox.....	31	23	26
Mumps.....	18	23	14	Tuberculosis (all forms).....	11	33	21
Pneumonia (all forms).....	1	1	.....	Typhoid fever.....	8	26	101
Puerperal septicemia.....	.....	1	.....	Whooping cough.....	83	53	69
Rocky Mountain spotted or tick fever.....	1	1	1	<b>South Dakota:</b>			
Scarlet fever.....	59	63	52	Cerebrospinal meningitis (epidemic).....	6	3	.....
Septic sore throat.....	.....	.....	1	Chicken pox.....	39	35	41
Small pox.....	117	111	73	Diphtheria.....	91	44	32
Tuberculosis (all forms).....	48	58	42	Influenza.....	76	1	10
Typhoid fever.....	3	2	13	Lethargic encephalitis.....	1	2	1
Whooping cough.....	31	147	43	Measles.....	96	406	496
<b>Pennsylvania:</b>				Mumps.....	7	10	.....
Anthrax.....	3	1	4	Pneumonia (all forms).....	63	42	5
Cerebrospinal meningitis (epidemic).....	9	11	7	Polioomyelitis.....	2	2	2
Chicken pox.....	1,112	1,317	1,399	Scarlet fever.....	203	156	79
Diphtheria.....	1,064	939	835	Smallpox.....	14	17	2
German measles.....	120	251	.....	Tetanus.....	.....	1	1
Impetigo contagiosa.....	51	35	.....	Tonsillitis.....	1	.....	.....
Lethargic encephalitis.....	23	8	.....	Trachoma.....	5	1	2
Malaria.....	.....	.....	2	Trichinosis.....	1	.....	5
Measles.....	14,038	11,819	6,261	Tuberculosis (all forms).....	11	16	21
Mumps.....	796	701	404	Typhoid fever.....	2	13	5
Occupational diseases and disabilities.....	2	1	.....	Whooping cough.....	17	20	16
Ophthalmia neonatorum.....	6	6	.....	<b>Vermont:</b>			
Pellagra.....	.....	.....	1	Chicken pox.....	40	.....	63
Pneumonia.....	627	444	231	Diphtheria.....	8	21	16
Polioomyelitis.....	5	3	3	German measles.....	6	.....	.....
Puerperal septicemia.....	9	14	.....	Influenza.....	.....	10	.....
				Measles.....	240	1,412	924
				Mumps.....	79	111	84

1 Report for June not received at time of going to press.

## STATE REPORTS FOR APRIL, MAY, AND JUNE, 1923—Continued.

## SUMMARY OF DISEASES—Continued.

State and disease.	New cases reported.			State and disease.	New cases reported.		
	April.	May.	June.		April.	May.	June.
<b>Vermont—Continued.</b>				<b>West Virginia—Continued.</b>			
Pneumonia (all forms)...	18	15	6	Diphtheria.....	73	79	80
Scarlet fever.....	69	64	37	German measles.....	96	36	-----
Smallpox.....	8	6	6	Influenza.....	245	75	17
Tuberculosis (all forms)...	14	34	54	Measles.....	2,493	2,765	2,009
Typhoid fever.....	5	4	4	Scarlet fever.....	113	91	57
Whooping cough.....	150	165	119	Smallpox.....	67	22	38
<b>Virginia:</b>				Trachoma.....	-----	2	1
Cerebrospinal meningi-				Tuberculosis.....	55	58	82
tis (epidemic).....	14	10	14	Typhoid fever.....	40	33	97
Chicken pox.....	611	289	242	Whooping cough.....	89	128	187
Diarrhea.....	224	674	1,949				
Diphtheria.....	148	131	81	<b>Wisconsin:</b>			
Hookworm disease.....	40	20	22	Cerebrospinal meningi-			
Influenza.....	3,261	676	189	tis (epidemic).....	6	-----	8
Malaria.....	190	240	305	Chicken pox.....	320	247	306
Measles.....	11,272	9,893	4,632	Diphtheria.....	256	211	169
Pellagra.....	25	20	18	Influenza.....	664	195	37
Poliomyelitis.....	4	3	6	Lethargic encephalitis...	5	2	3
Scarlet fever.....	167	85	52	German measles.....	8	7	4
Smallpox.....	101	99	33	Measles.....	4,851	5,449	4,086
Tuberculosis (all forms)...	344	295	301	Ophthalmia neonatorum	1	1	1
Typhoid fever.....	66	59	152	Paratyphoid fever.....	1	-----	-----
<b>Washington:</b>				Pneumonia (all forms)...	144	118	60
Cerebrospinal meningi-				Poliomyelitis.....	1	4	2
tis (epidemic).....	2	-----	2	Scarlet fever.....	2,039	1,522	873
Chicken pox.....	352	806	205	Smallpox.....	136	179	102
Diphtheria.....	95	91	88	Trachoma.....	-----	2	-----
German measles.....	9	12	5	Tuberculosis (all forms)...	230	205	180
Influenza.....	12	-----	-----	Typhoid fever.....	24	22	10
Leprosy.....	1	-----	-----	Whooping cough.....	533	424	301
Lethargic encephalitis...	-----	-----	4				
Measles.....	73	370	352	<b>Wyoming:</b>			
Mumps.....	100	123	80	Chicken pox.....	20	14	5
Pneumonia (all forms)...	35	19	4	Diphtheria.....	3	6	1
Poliomyelitis.....	-----	1	-----	German measles.....	-----	3	-----
Rocky Mountain				Influenza.....	1	-----	-----
spotted or tick fever...	-----	1	-----	Measles.....	90	47	97
Scabies.....	-----	-----	2	Mumps.....	4	1	2
Scarlet fever.....	170	127	112	Pneumonia (all forms)...	5	-----	1
Smallpox.....	141	170	113	Poliomyelitis.....	1	1	-----
Trachoma.....	1	-----	-----	Rocky Mountain			
Tuberculosis (all forms)...	178	286	238	spotted or tick fever...	1	5	8
Typhoid fever.....	31	18	26	Scarlet fever.....	21	34	8
Whooping cough.....	529	516	373	Septic sore throat.....	-----	1	-----
<b>West Virginia:</b>				Smallpox.....	1	1	1
Cerebrospinal meningi-				Tetanus.....	-----	-----	1
tis (epidemic).....	-----	1	-----	Tuberculosis (all forms)...	3	4	1
Chicken pox.....	71	69	69	Typhoid fever.....	1	3	1
				Whooping cough.....	6	5	7

# NEW MEXICO REPORTS FOR JANUARY, FEBRUARY, AND MARCH, 1923 (DELAYED).

	New cases reported.				New cases reported.		
	January.	February.	March.		January.	February.	March.
<b>Cerebrospinal meningitis (epidemic):</b>				<b>Pellagra:</b>			
Bernalillo County.....	1			Luna County.....	1		
Chickenpox.....	81	92	46	<b>Smallpox:</b>			
Conjunctivitis (acute).....	1	1	8	Eddy County.....		1	
Diphtheria.....	210	174	115	Hidalgo County.....			2
German measles.....	1	1	1	Luna County.....			1
Lethargic encephalitis.....			1	McKinley County.....		2	6
Measles.....	6	31	215	Otero County.....			1
Mumps.....	5	9	34	Rio Arriba County.....	1		1
Pneumonia (all forms).....	53	85	49	San Miguel County.....		2	
Puerperal septicemia.....	1		1	Taos County.....	17		
Scarlet fever.....	73	78	23	Torrance County.....		1	
Septic sore throat.....	2		3	Valencia County.....		1	
Trachoma.....	9		2	Total.....	18	7	11
Tuberculosis (all forms).....	93	66	49				
Whooping cough.....	6	15	23	<b>Typhoid fever:</b>			
<b>Influenza:</b>				Catron County.....		1	2
Bernalillo County.....	1	2		Colfax County.....	1		
Chaves County.....	3	6		Dona Ana County.....	1		
Colfax County.....	8	51	7	Eddy County.....	7		
Curry County.....		62	23	Lincoln County.....	2		
Dona Ana County.....	10	7	12	Luna County.....	1	1	1
Eddy County.....	36			McKinley County.....	1		
Grant County.....	1	15	1	Mora County.....	5		1
Lea County.....	16			Otero County.....	5		
Lincoln County.....		1		Santa Fe County.....	1		
Otero County.....	2	3		Taos County.....	1		
San Juan County.....			1	Union County.....	1		
San Miguel County.....			5	Valencia County.....	1		
Santa Fe County.....		51	2	Total.....	27	2	4
Socorro County.....	17	7	13				
Taos County.....	5	1	4				
Union County.....			1				
Total.....	99	206	69				

## FOREIGN AND INSULAR.

### ALGERIA.

#### Plague—Vicinity of Algiers.

During the period August 1 to 10, 1923, a fatal case of plague was reported at St. Eugène, a locality situated about five miles north of Algiers, Algeria. A second fatal case was reported at St. Eugène, August 20, 1923.

### BRAZIL.

#### Yellow Fever—Bahia.

During the three weeks ended July 28, 1923, nine cases of yellow fever were notified at Bahia, Brazil.

### CANADA.

#### Communicable Diseases—Ontario—August, 1923—Comparative.

Communicable diseases were reported in the Province of Ontario, Canada, during the month of August, 1923, as follows:

Disease.	August, 1923.		August, 1922.	
	New cases.	Deaths.	New cases.	Deaths.
Cerebrospinal meningitis.....		8	7	6
Chancreoid.....	5		7	
Diphtheria.....	194	12	197	10
Gonorrhea.....	212		270	
Measles.....	256	3	250	2
Pneumonia.....		83		72
Pneumonia, influenzal.....		4		7
Poliomyelitis (infantile paralysis).....			92	11
Scarlet fever.....	215	6	141	14
Smallpox.....	9		31	
Syphilis.....	161		247	
Tuberculosis.....	183	135	133	109
Typhoid fever.....	114	14	63	17
Whooping cough.....	197	13	163	4

### CHILE.

#### Influenza Epidemic—Typhus Fever—Valparaiso.<sup>1</sup>

Under date of August 7, 1923, epidemic influenza was reported still present at Valparaiso, Chile.

During the week ended August 4, 1923, eight deaths from typhus fever were reported at Valparaiso, with 58 cases in the lazaretto. Six new cases of typhus fever were admitted to the lazaretto August 6, 1923.

<sup>1</sup> Public Health Reports, Sept. 7, 1923, p. 2105.

**FRANCE.****Plague—Paris.**

Information received under date of August 13, 1923, shows the occurrence of a case of plague at Paris, France.

**GREAT BRITAIN.****Status of Smallpox—Gloucester.**

Under date of August 9, 1923, there were stated to be 33 cases of smallpox in the isolation hospital at Gloucester, England, as compared with about 250 cases present in hospital two weeks previous to that date.

**GUADELOUPE (WEST INDIES).****"Alastrim"—Smallpox.**

According to information dated August 17, 1923, "alastrim" has been officially declared present at Basse Terre and Pointe à Pitre, Guadeloupe, and the populations of the two towns have been called upon to submit to vaccination. It was stated that smallpox, recognized as such, was also present.

**JAVA.****Plague—June, 1923.**

During the month of June, 1923, 441 deaths from plague were reported in the Island of Java, occurring in six Provinces. For distribution of occurrence according to locality, see p. 2190.

**PANAMA CANAL.****Communicable Diseases—July, 1923.**

Communicable diseases were notified for the Panama Canal during the month of July, 1923, as follows:

Disease.	Canal Zone.	Colon.	Panama.	Nonresident.	Total.
Chicken pox.....	1	5	10	1	17
Dengue.....				1	1
Diphtheria.....	1	3	4		8
Dysentery.....		1	2		3
Hook worm.....	6	3	14		23
Malaria.....	197	18	8	22	245
Measles.....	10		2	4	16
Mumps.....	1			2	3
Pneumonia.....		5	11		16
Tuberculosis.....	2	6	13	12	33
Typhoid fever.....		2		1	3
Whooping cough.....	3	1			4

## PERU.

## Plague—July, 1923.

During the month of July, 1923, 23 cases of plague with 12 deaths were reported in Peru, occurring in eight localities. The report was stated to cover the entire coast. For distribution of occurrence according to locality, see page 2191.

## SENEGAL.

## Plague—Dakar—Rufisque.

During the month of July, 1923, four cases of plague with four deaths were reported at Dakar, Senegal. The cases were reported to have come from Rufisque, a port in Senegal, which was stated August 6, 1923, to be contaminated with plague.

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

The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended September 14, 1923.<sup>1</sup>

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				June 24-30, 1923: Cases, 973; deaths, 513.
Bombay.....	July 15-21.....	8	8	
Calcutta.....	July 15-28.....	26	21	
Siam:				
Bangkok.....	June 24-30.....	1	1	
Do.....	July 1-7.....	1		

## PLAGUE.

Algeria:				
St. Eugene.....	Aug. 1-20.....	2	2	Locality 5 miles north of Algiers.
Ceylon:				
Colombo.....	July 15-28.....	6	8	Plague rats, 8.
China:				
Amoy.....	July 22-28.....		2	Present and endemic.
Foochow.....	July 15-28.....			
Hongkong.....	July 8-21.....	12	14	
Nanking.....	July 22-Aug. 4.....			Rodent plague present.
France:				
Paris.....	Aug. 13.....	1		
India:				
Bombay.....	July 8-21.....	10	9	June 24-30, 1923: Cases, 500; deaths, 525.
Karachi.....	July 22-28.....	3	3	
Madras Presidency.....	do.....	56	46	
Rangoon.....	do.....	26	18	
Iraq (Mesopotamia):				
Bagdad.....	June 1-30.....	113	81	
Java.....				June 1-30, 1923: Deaths, 441.
Provinces—				
Djokjakarta.....	June 1-30.....		5	
Kedoe.....	do.....		135	
Pekalongan.....	do.....		48	
Samarang.....	do.....		143	
Soerabaya.....	do.....		1	
Soerakarta.....	do.....		109	

<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 September 14, 1923—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Peru.....				July 1-31, 1923: Cases, 23; deaths, 12.
Locality—				
Ayabaca.....	July 1-31.....	4	2	
Callao.....	.....do.....	1	1	
Canete.....	.....do.....	6	3	
Chiclayo.....	.....do.....	5	3	
Huacho.....	.....do.....	1	1	
Huaral.....	.....do.....	3	1	
Lima (city).....	.....do.....	2	1	
Lima (country).....	.....do.....	1	1	
Senegal:				
Dakar.....	July 1-31.....	4	4	Reported to have come from port of Rufisque, Senegal.
Rufisque.....	Aug. 6.....			Present.
Siam:				
Bangkok.....	June 24-30.....	4	4	
Do.....	July 1-7.....	3	3	
Syria:				
Beirut.....	July 1-10.....	2		

## **SMALLPOX.**

Algeria:				
Algiers.....	Aug. 1-10.....	1		
Arabia:				
Aden.....	July 29-Aug. 11.....	1	1	
Brazil:				
Rio de Janeiro.....	July 29-Aug. 4.....	15	1	
Canada:				
Ontario.....				Aug. 1-31, 1923: Cases, 9.
Chile:				
Valparaiso.....				20 cases in lazaretto Aug. 6, 1923:
China:				
Amoy.....	July 22-28.....			Present.
Foochow.....	July 15-28.....			Do.
Hongkong.....	July 8-21.....	25	23	
Nanking.....	July 22-Aug. 4.....			Do.
Shanghai.....	July 30-Aug. 5.....		1	Chinese.
Great Britain:				
Gloucester.....				Aug. 9, 1923: 33 cases in isolation hospital: two weeks previously about 250 cases present in hospital.
Nottingham.....	July 15-21.....	1		
Greece:				
Saloniki.....	June 25-July 8.....	2	3	
Guadeloupe (West Indies):				Aug. 17, 1923: Stated to be officially declared present.
Basse Terre.....	Aug. 17.....			Do.
Pointe à Pitre.....	do.....			Do.
India:				June 21-30, 1923: Cases, 326; deaths, 590.
Bombay.....	July 8-21.....	29	14	
Madras.....	July 22-28.....	2		
Rangoon.....	do.....	5	1	
Iraq (Mesopotamia):				
Bagdad.....	June 1-30.....	12	11	
Java:				
West Java—				
Batavia.....	July 14-20.....	1		
Mexico:				
Guadalajara.....	Aug. 19-25.....		1	
Persia:				
Tabriz.....	June 15-30.....		1	
Portugal:				
Lisbon.....	July 29-Aug. 11.....	10		
Oporto.....	do.....	17	8	
Siam:				
Bangkok.....	June 24-30.....	11	10	
Do.....	July 1-7.....	9	4	
Spain:				
Valencia.....	July 22-Aug. 18.....	11		
Turkey:				
Constantinople.....	July 18-21.....		4	
Union of South Africa:				
Cape Province.....	July 8-14.....			Outbreaks.
Natal.....	do.....			Do.
Orange Free State.....	do.....			Do.

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

**Reports Received During Week Ended September 14, 1923—Continued.**

## **TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Bulgaria:				
Sofia.....	July 15-Aug. 11...	15	1	
Chile:				
Valparaiso.....	July 29-Aug. 4.....		8	In lazaretto, Aug. 6, 1923: Cases, 58. Six new cases admitted Aug. 6.
Germany:				
Hamburg.....	.....do.....	1		Case developed July 28, 1923, at Emigration Hall, Hamburg.
Greece:				
Athens.....	July 22-31.....		1	
Saloniki.....	July 9-15.....	1		
Iraq (Mesopotamia):				
Bagdad.....	June 1-30.....	1		
Mexico:				
Guadalajara.....	July 1-31.....	1		

## **YELLOW FEVER.**

Brazil:				
Bahia.....	July 8-28.....	9		

**Reports Received from June 30 to September 7, 1923.<sup>1</sup>**

## **CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Shanghai.....	Aug. 28.....			Reported moderately prevalent.
India:				Apr. 15-June 23, 1923: Cases, 18,497; deaths, 14,095.
Bombay.....	June 3-30.....	34	23	
Do.....	July 1-7.....	1		
Calcutta.....	May 6-June 30.....	371	300	
Do.....	July 8-14.....	42	28	
Madras.....	June 3-30.....	2		
Do.....	July 1-7.....	1		
Rangoon.....	May 13-June 30.....	19	15	
Do.....	July 1-14.....	4	3	
Indo-China:				Oct. 1-31, 1922: Cases, 92; deaths, 53. Preceding month: Cases, 24; deaths, 14. October, 1921: Cases, 100; deaths, 61.
City—				
Saigon.....	May 20-June 9.....	11	10	
Province—				
Annam.....	Oct. 1-31.....	68	39	Preceding month: Cases, 2; deaths, 1.
Cambodge.....	.....do.....	2	1	Preceding month: Cases, 3.
Cochin-China.....	.....do.....	21	13	Preceding month: Cases, 19; deaths, 13.
Tonkin.....	.....do.....	1		Preceding month: No cases.
Iraq (Mesopotamia):				
Bassorah.....	Aug. 21.....			Present. Port declared infected since Aug. 6, 1923.
Philippine Islands:				
City—				
Manila.....	June 10-16.....	2	1	Death in foreign case from Ching-kang, China.
Province—				
Bulacan.....	May 17-23.....	1		
Capiz.....	May 27-June 2.....	1	1	
Cebu.....	Apr. 8-21.....	1	1	
Cotabato.....	Apr. 8-14.....	1	1	
Laguna.....	May 6-June 9.....	2	1	
Mountain.....	Mar. 25-31.....	1	1	
Pangasinan.....	June 24-30.....	2	2	
Russia (Soviet)				
Slam:				Jan. 1-May 15, 1923: Cases, 10.
Bangkok.....	May 13-June 23.....	9	10	

<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 from June 30 to September 7, 1923—Continued.**

## **PLAGUE.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Australia:</b>				
Sydney.....	June 30.....	1	1	
<b>Azores:</b>				
St. Michael Island.....	May 6-26.....	12	5	In one locality.
<b>Brazil:</b>				
Porto Alegre.....				Jan. 1-Mar. 31, 1923. Deaths, 19.
<b>British East Africa:</b>				
Kenya—				
Kisumu.....	June 10-16.....	2	1	
Tanganyika.....	May 6-June 2.....	3	3	Territory.
Uganda.....	Apr. 1-30.....	7	5	
<b>Canary Islands:</b>				
Las Palmas.....	June 7.....	1		
<b>Ceylon:</b>				
Colombo.....	May 6-June 30.....	18	19	Plague rats, 33.
Do.....	July 1-14.....	15	11	Plague rats, 6.
<b>China:</b>				
Amoy.....	May 13-June 25.....		10	
Do.....	July 1-21.....		4	
Foochow.....	May 27-June 23.....			Present.
Do.....	July 8-14.....			Reported as endemic.
Hongkong.....	Apr. 29-June 30.....	63	40	
Do.....	July 1-7.....	7	4	
<b>Manchuria—</b>				
Yakoshih.....	May 31.....	1	1	Station on Eastern Chinese Railway. Occurring in tarabagan (marmot) hunter. Bubonic. Rodent plague present.
Nanking.....	June 17-30.....			Do.
Do.....	July 1-21.....			
<b>Ecuador:</b>				
Guayaquil.....				May 16-June 30, 1923: Rats examined, 13,800; found infected, 39. July 1-31, 1923: Rats examined, 9,300; found infected, 15.
Do.....	July 1-15.....	2	2	
Santa Ana (Manabi).....	July 16-31.....	3	3	
<b>Egypt</b> .....				Jan. 1-June 21, 1923: Cases, 1,051; deaths, 548. May 1-29: Cases, 345. Jan. 1-June 21, 1923: Cases, 1,060. Jan. 1-Aug. 2, 1923: Cases, 1,279; deaths, 630. July 23-29, 1923: Cases, 47.
City—				May 1-29, 1923: Cases, 14.
Alexandria.....	Jan. 7-June 24.....	35	15	
Do.....	July 1-22.....	5		
Port Said.....	Jan. 7-June 24.....	24	12	May 1-29, 1923: Cases, 13.
Do.....	July 1-29.....	17		
Suez.....	Mar. 2-June 15.....	12	7	May 1-29, 1923: Cases, 3.
Do.....	July 16-22.....	1		
Province—				
Assiout.....	May 1-29.....	64		Deaths not reported.
Benisouef.....	do.....	7		Do.
Fayoum.....	do.....	14		Do.
Garbieh.....	do.....	2		Do.
Geizeh.....	do.....	3		Do.
Girgeh.....	do.....	123		Do.
Keneh.....	do.....	22		Do.
Menoufieh.....	do.....	34		Do.
Minieh.....	do.....	46		Do.
<b>Hawaii:</b>				
Hamakua.....				Plague-infected rats: Pohakea, May 23, 1923, 1 rat; vicinity of Pacific Sugar Co. mill, June 2, 1 rat; Aug. 2, 1 rat at Hamakua Mill Co. plantation.
Honokaa.....				July 20, 1923: One plague rat; July 30, 2 plague rats; Honokaa Sugar Co. mill and Honokaa village.
<b>India</b> .....				Apr. 29-June 23, 1923: Cases, 5,193; deaths, 3,956.
Bombay.....	Apr. 29-June 30.....	503	411	
Do.....	July 1-7.....	1	1	
Calcutta.....	May 6-June 9.....	13	13	
Karachi.....	May 13-June 30.....	110	85	Plague rats, 5.
Do.....	July 1-21.....	37	33	
Madras Presidency.....	May 13-June 30.....	254	141	
Do.....	July 1-21.....	110	57	
Rangoon.....	May 6-June 30.....	260	229	
Do.....	July 1-14.....	76	63	

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China				Oct. 1-31, 1922: Cases, 93; deaths, 89. Preceding month: 70 cases; 68 deaths.
Province—				
Annam	Oct. 1-31	15	14	Preceding month, 15 deaths.
Cambodge	do	75	75	Preceding month, 51 deaths.
Cochin China	do	3		Preceding month, 4 cases, 2 deaths.
Iraq (Mesopotamia):				
Bagdad	May 1-31	222	143	
Java:				
East Java—				
Soerabaya	Apr. 1-June 23	488	488	May 1-31, 1923: Cases, 471; deaths, 471.
Do	June 17-23	1	1	May 16, 1923: Epidemic in five districts.
Soerakarta				Apr. 1-June 15, 1923: Cases, 74; deaths, 71. Bubonic, pneumonic, septicemic.
Madagascar				
Province—				
Tananarive	Apr. 1-June 15	56	53	May 4-21, 1923: 2 cases.
Tananarive	Apr. 16-June 15	20	20	
Mauritius Island				
Port Louis	May 4	1		
Mexico:				
Tampico				Apr. 15-21, 1923: 1 plague rat. Aug. 8, 1923: At Dona Cecelia, a suburb of Tampico, 1 plague-infected rat found. From Jan. 1 to Aug. 8, 1923, plague-infected rats found, 5.
Palestine:				
Jaffa	June 19-July 16	10	1	Bubonic and septicemic.
Peru				May 1-June 30, 1923: Cases, 111; deaths, 68.
Locality—				
Ayabaca	May 16-June 30	15	13	
Callao	May 1-June 30	5	3	
Canete	May 16-June 30	3	2	
Cerro Azul	May 1-31	3	1	
Chiclayo	May 1-June 30	9	2	
Cutervo	May 1-15	2	1	
Huancabamba	May 1-June 30	34	25	
Huara	June 1-30	2	2	
Lima (city)	May 1-31	17	8	
Lima (country)	do	7	4	
Mollendo	June 1-30	1	1	
Salaverry	May 1-June 30	11	3	
Trujillo	do	2	3	
Russia				Jan. 1-May 15, 1923: Few cases in Far East regions.
Siam:				
Bangkok	Apr. 29-June 23	27	26	
Siberia				Sporadic cases of plague reported yearly in localities vicinity of stations Matsievskaya and Borzia, Transbaikai Railway.
Haramhor	May 6	1	1	Village in zone of endemic tarabagan (marmot) plague, Transbaikai region.
Station No. 83				Station on Transbaikai Railway. Marmot plague during recent years.
Soktu				Do.
Straits Settlements:				
Singapore	May 6-June 30	6	8	
Syria:				
Beirut	May 12-June 20	3		

## **SMALLPOX.**

Algeria:			
Algiers	May 1-31	2	
Arabia:			
Aden	May 27-June 2		2
Do	July 8-28	6	
Bolivia:			
La Paz	Apr. 1-June 30	2	3

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Brazil:</b>				
Pernambuco.....	May 6-June 16.....	5		
Do.....	July 1-7.....	8		
Rio de Janeiro.....	May 13-June 23.....	10	2	
Do.....	July 15-28.....	8		
Rio Grande do Sul.....				Jan. 1-Mar. 31, 1923: Present with some mortality.
<b>British East Africa:</b>				
Kenya—				
Mombasa.....	May 20-26.....	1		From vessel from Bombay.
Tanganyika.....	Apr. 29-June 9.....	3		Territory.
Uganda—				
Entebbe.....	Apr. 1-30.....	4		
<b>Canada:</b>				
Alberta—				
Calgary.....	May 27-June 2.....	1		Infection from Deer Lodge, Mont.
British Columbia—				
Vancouver.....	May 27-June 30.....	33	1	
Do.....	July 1-14.....	5	1	
Victoria.....	Aug. 5-11.....	1		
Manitoba—				
Winnipeg.....	June 3-30.....	1		
Do.....	July 1-31.....	1		
New Brunswick—				
Kent County.....	July 1-7.....	1		
Ontario.....				June 1-30, 1923: Cases, 13. July 1-31, 1923: Cases, 14.
London.....	July 15-21.....	1		
Toronto.....	June 24-30.....	3		
Do.....	July 15-21.....	1		
Quebec—				
Quebec.....	June 10-16.....	1		Varioloid.
Saskatchewan—				
Moose Jaw.....	July 8-14.....	1		
Regina.....	June 24-30.....	3		
<b>Ceylon:</b>				
Colombo.....	May 6-June 2.....	23	1	
<b>Chile:</b>				
Concepcion.....	May 22-June 11.....		3	June 1-30, 1923: Cases, 2.
Valparaiso.....	May 7-June 23.....	6	121	June 10-16, 1923: 29 cases reported from 2 districts.
Do.....	July 1-28.....	12	10	July 30: 25 cases in lazaretto.
<b>China:</b>				
Amoy.....	May 13-June 23.....		3	June 19-25, 1923: Present.
Do.....	July 1-21.....			Present.
Antung.....	May 14-20.....	1		
Chungking.....	May 13-June 30.....			Present and endemic.
Do.....	July 1-21.....			Do.
Foochow.....	May 13-July 14.....			Do.
Hongkong.....	Apr. 29-June 30.....	98	82	
Do.....	July 1-7.....	6	11	
Manchuria—				
Dairen.....	May 21-27.....	1		
Harbin.....	May 7-June 24.....	5		
Do.....	July 1-7.....	1		
Mukden.....	May 13-20.....	1		
Nanking.....	May 13-June 23.....			Present.
Do.....	June 24-July 7.....			Do.
Shanghai.....	May 21-June 3.....	4		Foreign.
Do.....	July 2-8.....	1	2	Case, foreign; deaths, Chinese.
<b>Chosen (Korea):</b>				
Chemulpo.....	May 1-31.....	1		
Fusan.....	May 1-June 30.....	4		
Gensan.....	May 1-31.....	1		
Seoul.....	May 1-June 30.....	42	13	
<b>Cuba:</b>				
Antilla.....	July 8-14.....		2	From Preston.
<b>Czechoslovakia</b>				
Province—				
Bohemia.....	Jan. 1-Mar. 31.....	15	4	Jan.-Mar., 1923: Cases, 15; April-June, 1923: Cases, 16; deaths, 4.
<b>Ecuador:</b>				
Alausi.....	July 16-31.....	3		
Guayaquil.....	May 16-31.....	1		
<b>Egypt:</b>				
Cairo.....	Mar. 12-May 6.....	17	4	
<b>Esthonia</b>				
.....	June 1-30.....	4		
<b>Finland</b>				
.....				May 1-15, 1923: 1 case.

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Great Britain:</b>				
Birmingham.....	June 18-30.....	3		
Bristol.....	June 28.....			Present.
Cardiff.....	June 3-30.....	6		
Gloucester.....	June 28.....			123 cases reported in hospital; present in rural districts. July 15, 1923: Present.
Do.....	July 12.....	19		May 1-31, 1923: Cases, 211.
Nottingham.....	June 3-9.....	1		
Do.....	July 8-14.....	1		
<b>Greece:</b>				
Athens.....	May 1-31.....	53		
Patras.....	Apr. 24-June 15.....		19	
Saloniki.....	Apr. 30-May 20.....	2	2	
Guadeloupe (West Indies).....	July 22-Aug. 4.....			Present in epidemic form. (Reported as alastrim.)
Pointe à Pitre.....	do.....			Estimated from 2,000 to 3,000 cases.
<b>Hungary.....</b>	July 15-21.....	6		
<b>India:</b>				Apr. 15-June 23, 1923: Cases, 7,786; deaths, 2,343.
Bombay.....	Apr. 22-June 30.....	298	141	
Do.....	July 1-7.....	11	8	
Calcutta.....	May 13-June 9.....	12	9	
Do.....	July 1-14.....	10	10	
Karachi.....	May 13-June 30.....	24	8	
Do.....	July 1-21.....	7	1	
Madras.....	May 13-June 23.....	91	16	
Do.....	July 8-21.....	12	7	
Rangoon.....	May 6-June 30.....	125	67	
Do.....	July 1-14.....	20	9	
<b>Indo-China:</b>				
Saigon.....	May 20-June 23.....	28	20	Including 100 surrounding square kilometers.
<b>Iraq (Mesopotamia):</b>				
Bagdad.....	Apr. 1-May 31.....	20		
<b>Italy:</b>				
Turin.....	May 28-June 3.....	1		
Do.....	July 2-15.....	2		
<b>Jamaica:</b>				May 27-June 30, 1923: Cases, 226.
Kingston.....	May 27-June 30.....	39		July 1-Aug. 4, 1923: Cases, 139.
Do.....	July 1-Aug. 4.....	27		(Reported as alastrim.)
<b>Japan:</b>				
Kobe.....	May 28-June 10.....	2		
Do.....	July 2-8.....	1		
<b>Java:</b>				
East Java—				
Soerabaya.....	Apr. 22-June 30.....	187	22	
West Java—				
Batavia.....	May 5-June 8.....	17	3	Province.
Do.....	June 30-July 7.....		1	City and Province.
<b>Latvia.....</b>				Apr. 1-May 31, 1923: Cases, 8.
<b>Mexico:</b>				
Aguascalientes.....	July 8-14.....		1	
Chihuahua.....	June 11-24.....	7		
Guadalajara.....	July 22-Aug. 18.....		7	June 1-30, 1923: Cases, 15; deaths, 2.
Mexico City.....	May 19-June 30.....	164		Including municipalities in Federal district.
Do.....	July 1-21.....	84		
<b>Palestine:</b>				
Jaffa.....	June 5-11.....	1		
<b>Persia:</b>				
Tabriz.....	Apr. 1-14.....		1	District.
Teheran.....	Feb. 22-June 14.....		30	
<b>Poland.....</b>				Apr. 29-May 26, 1923: Cases, 965; deaths, 25.
<b>Portugal:</b>				
Lisbon.....	May 20-June 30.....	35	3	
Do.....	July 1-28.....	18	2	
Oporto.....	June 10-30.....	6	3	
Do.....	July 9-15.....	5	4	July 8-28, 1923: Cases, 7; deaths, 2.
<b>Portuguese West Africa:</b>				
Angola—				
Loanda.....	Apr. 1-21.....		2	
<b>Rhodesia (British Africa):</b>				
Northern Rhodesia.....	May 8-14.....	21	8	
Southern Rhodesia.....	May 3-16.....	4	2	
<b>Siam:</b>				
Bangkok.....	Apr. 29-June 23.....	79	43	

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Sierra Leone:				
Kaballa.....	May 1-15.....	1		
Pujehun.....	May 16-31.....	1		In Sembahun district.
Spain:				
Barcelona.....	May 31-June 6.....		1	
Do.....	June 29-July 10.....		2	
Seville.....	July 19-25.....		1	
Valencia.....	May 15-June 30.....	44	2	
Do.....	July 1-Aug. 4.....	25	4	
Switzerland:				
Basel.....	May 27-June 30.....	4		
Do.....	July 8-14.....	1		
Berne.....	May 20-June 30.....	11		
Do.....	July 1-23.....	10		
Lucerne.....	May 1-June 7.....	36		
Do.....	July 1-31.....	14		
Zurich.....	May 20-June 23.....	10		
Do.....	July 15-21.....	6		
Syria:				
Aleppo.....	do.....	6		
Damascus.....	May 15-June 11.....	7		
Tunis:				
Bizerta.....	June 10-20.....	1		
Tunis.....	June 11-17.....	1		
Do.....	June 26-July 1.....	1		
Turkey:				
Constantinople.....	May 13-June 26.....		45	
Do.....	June 27-July 10.....		6	
Union of South Africa.....				May 1-31, 1923: Cases, 33; deaths, 1 (colored).
Cape Province.....				May 1-31, 1923: Cases, 32 (colored). Outbreaks.
Do.....				Do.
Do.....	May 6-June 30.....			
Do.....	July 1-7.....			
East London.....	July 8-14.....	1		
Orange Free State.....	Apr. 29-June 30.....			Do.
Do.....	July 1-7.....			Do.
Transvaal.....				May 1-31, 1923: 1 case.
Yugoslavia.....				July 1-7, 1923: Cases, 8; deaths, 1.
Province.....				
Bosnia-Herzegovina.....	July 1-7.....	1		
Croatia-Slavonia.....	do.....	4	1	
Serbia.....	do.....	2	1	
Belgrade.....	June 10-16.....	1	1	
Do.....	July 8-14.....		1	
Zagreb.....	June 24-30.....	1		
Woiwodina.....	July 1-7.....	1		
On vessels:				
S. S. Kargola.....	May 20-26.....	1		At Mombasa, British East Africa. Vessel arrived from Bombay Mar. 25, 1923.
S. S. Makura.....	May 26.....	2		Two cases in quarantine (reported as alastrim). Vessel left Victoria, B. C., Apr. 28, 1923. Touched at Honolulu.

## **TYPHUS FEVER.**

Algeria:				
Algiers.....	May 1-June 30.....	66	19	
Argentina:				
Rosario.....	May 25-31.....		3	
Bolivia:				
La Paz.....	June 1-30.....	4		
Bulgaria:				
Sofia.....	Apr. 22-June 23.....	11	2	Paratyphus, 2 cases, 2 deaths.
Chile:				
Concepcion.....	May 22-June 18.....		3	
Talcahuano.....	May 13-19.....	1		
Valparaiso.....	May 7-June 23.....		26	June 11, 1923: 34 cases in Salvador Hospital. July 30: 45 cases in hospital.
Do.....	July 1-23.....		18	

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	May 28-June 24...	12		
Do.....	July 16-22.....	1		
Hankow.....	May 19-25.....	1		
Manchuria—				
Harbin.....	May 6-13.....	1		
Mukden.....	May 14-20.....	2		
Czechoslovakia:				Jan.-Mar., 1923: Cases, 191; deaths, 6. Apr. 1-June 30, 1923: Cases, 132; deaths, 4. Paratyphoid A, 1; paratyphoid B, 20.
Province—				
Bohemia.....	Apr. 1-June 30.....	8		
Moravia.....	do.....	2		
Russsia.....	do.....	98	1	
Silesia.....	do.....	1	1	
Slovakia.....	do.....	23	2	
Estonia.....				June 1-30, 1923: Recurrent typhus, 1 case; paratyphus, 2 cases.
Egypt:				
Alexandria.....	May 14-June 24.....	7	5	
Do.....	June 25-July 29.....	5	3	
Cairo.....	Apr. 12-May 6.....	20	10	
France:				
Marseille.....	Mar. 1-May 31.....		3	
Germany:				
Coblenz.....	May 27-June 2.....		1	
Hamburg.....	May 20-26.....	3		
Königsberg.....	May 13-June 2.....	2		
Stettin.....	May 27-June 9.....	1	1	
Great Britain:				
Bootle.....	Aug. 4.....	1		Vicinity of Liverpool.
Greece.....				May 1-31, 1923: Cases, 576.
Athens.....	May 1-31.....	150	5	
Patras.....	Apr. 24-June 15.....		30	
Piræus.....	May 1-June 30.....	356	11	
Do.....	July 1-10.....	3		
Saloniki.....	Apr. 30-June 24.....	56	16	Apr. 30-May 27, 1923: Recurrent typhus: Cases, 3; deaths, 3.
Guatemala:				
Guatemala City.....	Apr. 1-June 30.....		5	
Hungary.....				Jan. 1-May 19, 1923: Cases, 318; deaths, 36. In 11 counties.
Budapest.....	Jan. 1-June 2.....	48	12	
Iraq (Mesopotamia):				
Bagdad.....	Apr. 1-30.....	2		
Japan:				
Nagasaki.....	July 2-8.....	1		
Latvia.....				Apr. 1-May 31, 1923: Cases, 186. Paratyphus, 4 cases.
Mexico:				
Guadalaajara.....	June 1-30.....	1		
Mexico City.....	May 20-June 30.....	75		
Do.....	July 1-21.....	27		
San Luis Potosi.....	July 29-Aug. 4.....		1	
Palestine:				
Jaffa.....	May 22-28.....	2		
Do.....	June 26-July 9.....	4		
Jerusalem.....	May 22-23.....	1		Relapsing fever, 1 case.
Persia:				
Tabriz.....	Apr. 1-14.....	2		
Teheran.....	Feb. 22-June 14.....		4	
Poland.....				Mar. 4-Apr. 7, 1923: Cases, 2,253; deaths, 172. Recurrent typhus: Cases, 333; deaths, 6. Apr. 29-May 26, 1923: Cases, 1,305; deaths, 111. Recurrent typhus: Cases, 239; deaths, 2.
Portugal:				
Oporto.....	June 10-16.....	1		
Do.....	July 1-21.....	3		
Rumania:				
Kishineff.....	May 1-June 30.....	41		
Russia:				Jan. 1-Apr. 30, 1923: Cases, 103,854. (Corresponding period 1922: Cases, 847,516.) Feb. 1-28, 1923: Cases, 17,577. Recurrent, Jan. 1-Feb. 28, 1923: Cases, 43,540.
European Russia and autonomous republics.....	Jan. 1-Apr. 30.....	93,909		
Siberia, Caucasus, and Central Asia.....	do.....	9,921		
Waterways and railways.....	do.....	2,934		

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

**Reports Received from June 30 to September 7, 1923—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Spain:				
Barcelona.....	June 21-27.....		1	
Madrid.....	May 1-31.....		1	
Syria:				
Aleppo.....	May 20-June 16....	4	2	July 8-14, 1923: Present.
Do.....	July 15-21.....	3	1	
Beirut.....	May 1-10.....	1	1	
Tunis:				
Tunis.....	May 23-June 24....	3	2	
Do.....	July 9-15.....	1	1	
Turkey:				
Constantinople.....	May 13-June 26....		19	
Do.....	June 27-July 3....		1	
Union of South Africa.....				May 1-31, 1923: Cases, 102; deaths, 21 (colored). White—Cases, 6. Total, 108 cases, 21 deaths.
Cape Province.....				May 1-31, 1923: Cases, 49 (colored) white, 5. Outbreaks.
Do.....	Apr. 29-June 30....			Do.
Do.....	July 1-7.....			May 1-31, 1923: One case (colored).
Natal.....				May 1-31, 1923: Cases, 45 (colored). Outbreaks.
Orange Free State.....				May 1-31, 1923: Cases, 7.
Do.....	May 6-June 16....			May 1-31, 1923: Cases, 4.
Transvaal.....				
Johannesburg.....	May 1-June 30....	4	4	
Yugoslavia.....				July 1-7, 1923: Cases, 4.
Province—				
Croatia—				
Zagreb.....	May 27-June 2....	1		
Bosnia-Herzegovina.....	July 1-7.....	4		

## **YELLOW FEVER.**

Brazil:				
Bahia.....	May 13-June 30....	25	6	
Do.....	July 1-7.....		1	
Colombia:				
Bucaramanga.....	June 25-July 29....			Present