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PAST INCIDENCE OF CERTAIN COMMUNICABLE DISEASES COMMON AMONG CHILDREN.¹

OCCURRENCE OF MEASLES, WHOOPING COUGH, MUMPS, CHICKEN POX, SCARLET FEVER, AND DIPHTHERIA AMONG SCHOOL CHILDREN IN VARIOUS LOCALITIES IN THE UNITED STATES.

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In spite of the fact that a large percentage of the population have the common children's diseases before they are 15 years of age, very few data are available to show the actual incidence of these diseases, particularly the percentage of the population who have them at one time or another and the percentage who have these diseases when at a certain age. In the course of certain studies in child hygiene made by the United States Public Health Service during the period 1916–1919, information was secured from individual school children as to whether they had at any time during their lives had an attack of measles, whooping cough, mumps, chicken pox, scarlet fever, or diphtheria. In the case of the younger children this information was verified by asking older brothers and sisters wherever they were found attending the same school.

From the data collected in this way certain facts can be shown: (1) The actual and relative prevalence of these diseases; that is, how large a percentage of the population suffer attacks and which disease has attacked the largest percentage of the children by the time they have reached adult life; (2) the age incidence; that is, what percentage of children of given ages suffer attacks of these diseases; (3) the sex incidence; that is, what percentage of boys and what percentage of girls have had these diseases and which sex shows the larger percentage who have had them; and (4) race incidence; that is, have negro children had these diseases more or less than white children ?

The 31,353 children whose records form the main part of this study were all native-born white children who were attending school. In New Castle County, Del., and Nassau County, N. Y., a considerable number of children were found who were born in a foreign country or who were of foreign or mixed parentage. The records of these foreign children have been tabulated separately and are compared with the native white from the same localities. Also a considerable number of negro children were included in the study, but they have been tabulated separately and compared with the native white children from the same localities. Table 1 shows the distribution of the children included in this study by place of residence.

¹ From Field Investigations in Child Hygiene, United States Public Health Service, in cooperation with the Statistical Office, United States Public Health Service.

1554

TABLE 1.—Distribution of children observed for past incidence of communicable diseases according to the locality of residence.

Locality.	Both sexes.	Boys.	Girls.

\$1,353 native white children 5-19 years of age.

localities		15, 518	15, 8
Frederick County, Md		1, 802	1, 7
Petersburg, Va	1,720	852	-, 8
Hampton, Va	1, 214	557	6
Charlotte, N. C.	4, 155	1,973	2, 1
Spartanburg, S. C.	2, 393	1, 197	1, 1
Greenville, S. C.	730	369	í 3
Louisville, Ky	2,832	1, 437	1, 3
Anniston, Ala		253	2
Hattiesburg, Miss		330	3
Little Rock, Ark		183	ĩ
Fort Worth, Tex	5,072	2, 495	2.5
Waco, Tex		1,844	1,9
Leavenworth, Kans		868	78
Delaware and New York State		1,358	1, 3

2,292 childern of foreign-born or mixed parentage 6-16 years of age.

Delaware and New York State	2, 292	1, 194	1, 098

2,777 colored children 6-16 years of age.

		· ·	
All localities	2, 777	1, 201	1, 576
Charlotte, N. C.	1, 100	461	639
Greenville, S. C.	714	278	436
Waço, Tex	963	462	501
-			

AGE INCIDENCE.

Table 2 shows for each disease the percentage of children each year of age who have at some time in their lives had an attack of that disease.

TABLE 2.—Age incidence of certain communicable diseases common among children.

Percentage of children at each age who had already had an attack of the specified disease-31,353 native white children 5 to 19 years of age in 14 localities in the United States.¹

Age nearest birthday. Measles	Whoop- ing cough.	Mumps.	Chicken- pox.	Scarlet fever.	Diph- theria.	Number of chil- dren.
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Actual percentage of children at each age who had had an attack of the specified disease at some time in their lives.

5	67.1	48.6	20.5	22.4	5. 2	3.3	210
6	67.4	56.8	23.7	33. 2	5.9	44 5.6	1, 191
7	75.7	60.8	27.3	38.8	6.5	5.6	2,863
8	79.9	66.7	33.7	42.5	7.8	5.8	3, 701
9	83.4	69.7	36.5	44.9	8.4	7.0	4,089
10	84.4	69.4	41.8	47.7	9.5	7.1	4, 173
11	86.7	74.2	46.1	49.6	12.1	8.5	3, 825
12	86.5	75.0	48.8	49.8	10.5	8.1	3.683
13	88.6	77.4	52.8	49.2	11.1	7.1	3,089
14	89.0	76.7	57.4	50.4	11.8	7.6	2, 177
15	86.6	76.4	61.6	48.3	10.6	10.8	1, 212
16	90.9	79.2	60.6	54.5	11.9	10.3	624
17	79.2	73.5	61.8	60.3	12.9	12.6	317
18	90.1	78.8	64.9	57.0	7.3	12.6	151
19	89.6	72.9	64.6	58.3	8.3	6.3	48
10	00.0		V1. U		~ ~	~~	

¹See Table 1 (section on native white children) for the localities included.

TABLE 2Age	incidence of	「 certain	communicable	diseases	common	among	chil-
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urun Oonumucu.												
Age nearest birthday.	Measles.	Whoop- ing cough	Mumps.	Chicken- pox.	Scarlet fever.	Diph- theria.	Number of chil- dren.					
moothed percentage of children at	each age wh	o had had a	n attack of t	he specified	disease at s	ome time in	their lines					
moothea percentage of citize en as				ne opecijicu								
	65. 0	48.5	19.7	22.4	5.1	3.5						
	69.5	56.2	23.3	33.2	5.9	4.4						
	75.6	61.7	27.6	38.8	6.8	5.3						
	79.8	63.0	32.1	42.6	7.8	6.1						
	83.0	69.2	36.6	45.6	8.9	6.8						
	85.2	71.8	41.0	47.8	10.0	7.4						
	86.7	73.9	45.2	49.3	10.8	7.9						
	87.6	75.5	49.2	50.1	11.2	8.2						
	88.2	76.6	53.0	50.6	11.4	8.4						
	88.6	77.3	56.6	51.0	11.5	8.6						
	88.8	77.6	59.5	51.3	11.6	8.7						
	89.0	77.8	61.3	51.6	11.7	8.8						
	89.1	77.9	62.7	51.9	11.8	8.9						
	89.2	78.0	63.8	52.2	11.9	.9.0						
	89.3	78.1	64.7	52.5	11. 9	9.1						
	00.0	70.1	01.1	32.3	12.0	5.1						

Approximate percentage of children who had an attack of the specified disease when at a certain age.

5 to 6	4.5	7.7	3.6	10.8	0.8	0.9
6 to 7	6.1	5.5	4.3	5.6	.9	.9
7 to 8	4.2	4.3	4.5	3.8	1.0	. 5
8 to 9	3.2	3.2	4.5	3.0	1.1	.7
9 to 10	2.2	2.6	4.4	2.2	1.1	.6
10 to 11	1.5	2.1	4.2	1.5	.8	. 5
11 to 12	.9	1.6	4.0	.8	.4	.3
12 to 13	.6	1.1	3.8	.5	.2	.2
3 to 14	.4	.7	3.6	.4	.1	.2
4 to 15	.2	.3	2.9	.3	.1	.1
5 to 16	.2	2	1.8	.3	.ī]	1
6 to 17	ī	.ī	1.4	.3	.ī l	.1
7 to 18	.1	.ī	i i l	.3	ī	.1
8 to 19	.1	.1	.9	.3	.1	.1

The percentages in the upper section of Table 2 show considerable chance variation, especially in the age groups above 14 years, where the number of children rapidly declines. However, it is clear that the age curves for the different diseases are of very different types.

In order to give a more accurate idea of the incidence of these diseases, the crude data were smoothed by means of a three-period moving average, with some further adjustments made on the following assumptions:

First, in interpreting the data in this way one gets a curve similar to the curve which would be obtained by observing a single group of children from the time they were 5 until they were 19 years of age and recording for the survivors at the end of each year under observation the percentage who had had the disease in question at some time in the past. In such a case it is obvious that the percentage of children of a given age who had had the disease at some time in their past lives could never be less than the percentage of children one year younger who had had the disease. Therefore, in smoothing the percentages shown in the top section of Table 2 and in Figure 1, it was assumed that the curves would never come down. In the second place, it can not be assumed that the curves have entirely ceased to rise by the nineteenth year of age, for a few adults suffer attacks of these children's diseases.

In adjusting the moving averages, both these facts were taken into account.

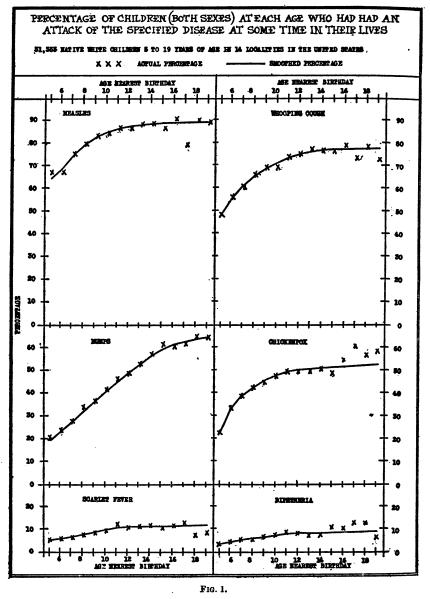
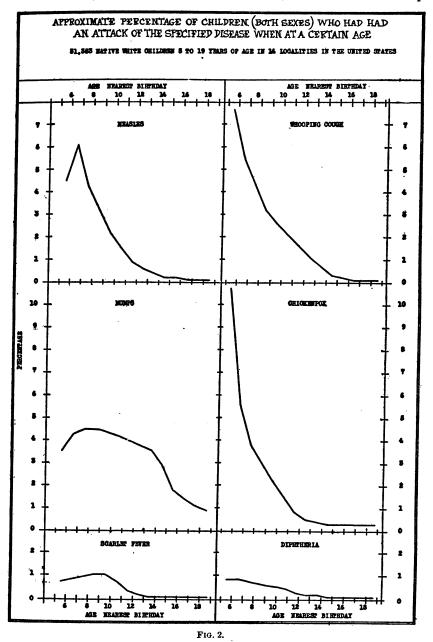


Figure 1 shows for both sexes combined the actual and the smoothed percentage at each age who had at some time in their lives had an attack of each specified disease. Attention might be called to the differences between the curves for the several diseases. Measles,

whooping cough, and chicken pox rise rather rapidly during the early school ages, but after the thirteenth or fourteenth year of age the curves rise very little and therefore indicate that most of the suscept-



ible children have had these diseases by the time they reach the age of 13 or 14 years. The same may be said of scarlet fever and perhaps also of diphtheria, except that the percentages are much smaller and

1557

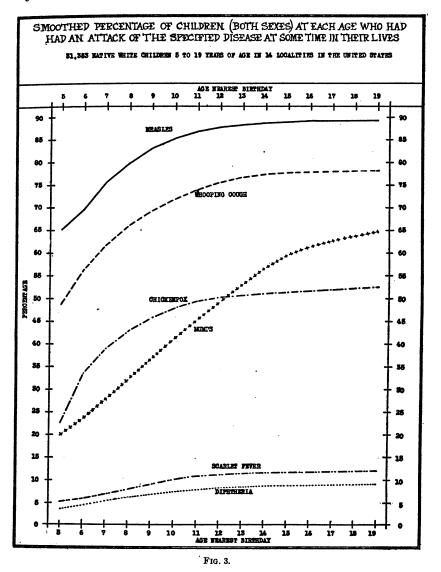
the rise therefore appears to be less marked when the rates are plotted, as in Figure 1, on coordinate paper. Mumps, however, shows quite a different tendency. The plotted percentages form nearly a straight line up to 14 or 15 years of age and there is little indication of the curve ceasing to rise within the ages observed in this study.

In order the better to study the age incidence of these diseases, the percentage of children of a given age who had had an attack of a disease was subtracted from the percentage of children one year older who had had an attack of the same disease. The resulting number gives an approximation of the percentage of children of a given age who would be expected to have the disease before they reach the next year of age. Since the actual percentages have considerable chance variation in them, the smoothed figures were used. Figure 2 shows the results.

It should be borne in mind in considering these percentages that they are based on observations, made in different years, of a large number of children in widely separated localities. They therefore represent averages and, because of the epidemic character of these diseases, the rates for a particular locality in a given year might be much lower or much higher than those shown here.

In the case of whooping cough and chicken pox the annual incidence rapidly declines as age increases above 5 to 6 years. Diphtheria shows somewhat the same tendency. Measles seems to show the greatest incidence at 6 to 7 years of age. Scarlet fever indicates a possible increase up to about 8 to 10 years of age, followed by a decline. Mumps rises until about 7 to 9 years of age and then declines somewhat more gradually than the other diseases. Even at 15 to 16 years there is still considerable morbidity from mumps, the rate being nearly half of what it is at the maximum (7 to 9 years), whereas the rate for measles, whooping cough, and chicken pox has declined by the twelfth to the fourteenth year of age to a point not greater than one-tenth of the rate at the maximum (5 to 6 years).

In Figure 3 the curves showing the percentage of children who have suffered attacks of the specified diseases at some time in their lives are plotted on one sheet to facilitate comparison of the different diseases. It appears that by the time adult life is reached, a greater percentage of people have had measles than any other of these diseases. About 89 per cent of the children had had the measles by the time they were 19 years of age. Whooping cough comes next with 78 per cent. At the 12th year of age, practically 50 per cent of the children had had mumps and 50 per cent had had chicken pox. But the curve for mumps rises after the 12th year much more rapidly than the curve for chicken pox, and by the 19th year of age 65 per cent of the children had had mumps and 52 per cent had had chicken pox. About 12 per cent of the children had had scarlet fever, and 9 per cent had had diphtheria by the time they were 19 years of age. It must be remembered, however, that these are percentages of the surviving children and, in the case of the more serious diseases with a high case fatality, the percentages may be considerably less than they would be if the fatal cases were included.



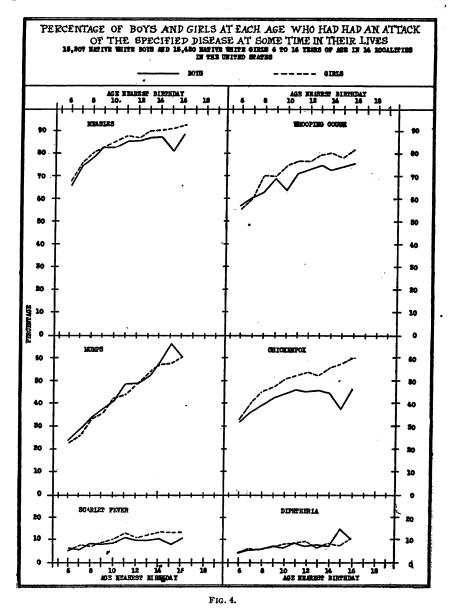
SEX INCIDENCE.

In an article by E. C. Henderson ¹ on contagious diseases among children in London, Canada, attention was called to the fact that the

1559

¹A census of contagious diseases of 8,786 children. By E. C Henderson. Am. Jour. of Pub. Health, vol. 6, No. 9, pp. 971-981, Sept., 1916.

incidence of certain diseases is greater among girls than boys. Table 3 and Figure 4 show the percentage of boys and the percentage of girls of each year of age included in the present study who have had



the specified diseases. In the case of measles, whooping cough, chicken pox, and scarlet fever the curves for the girls are rather consistently higher than those for the boys. In the case of mumps and diphtheria, no consistent difference appears between the sexes.

1561

Frederick S. Crum in an article on measles ¹ shows average annual case rates of measles reported in Aberdeen, Scotland, 1883–1902 by sex and single years of age. Although the differences are not large, the rates in practically all age groups are higher for females than for males. Henderson ² also found more morbidity from measles among girls than boys.

 TABLE 3.—Sex and age incidence of certain communicable diseases common among children.

Percentage of girls and of boys at each age who had already had an attack of the specified disease—15,207 native white boys and 15,420 native white girls 6 to 16 years of age in 14 localities in the United States. ¹
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Age nearest				Mu	mps.	Chicken pox.		Scarlet fever.		Diphtheria.		Number of children.		
birthday.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
6	66. 3 75. 0 79. 1 83. 5 83. 2 85. 6 85. 6 85. 6 87. 2 87. 6 81. 5 88. 9	68.5 76.3 80.7 83.3 85.8 87.9 87.3 90.0 90.4 91.3 92.4	55. 9 61. 0 63. 1 69. 2 64. 1 71. 6 73. 3 75. 0 73. 1 74. 4 75. 6	57. 6 60. 6 70. 3 70. 1 75. 0 76. 9 76. 7 79. 7 80. 1 78. 3 81. 9	24. 2 28. 5 33. 9 37. 2 41. 2 48. 3 48. 9 51. 8 57. 4 66. 2 60. 9	23. 2 26. 1 33. 6 35. 8 42. 5 44. 0 48. 8 53. 7 57. 3 57. 5 60. 3	32.5 36.7 39.7 42.6 44.5 46.5 45.6 46.1 45.1 38.1 47.2	33. 9 40. 8 45. 2 47. 3 51. 0 52. 7 53. 9 52. 3 55. 6 57. 5 60. 1	6.3 5.6 8.5 8.0 8.7 11.1 9.8 9.6 10.2 8.0 10.0	5.5 7.4 7.1 8.8 10.3 13.1 11.2 12.6 13.3 13.1 13.3	4.3 5.2 5.8 7.2 6.4 8.3 7.0 7.8 7.1 14.7 10.3	4.5 6.0 5.8 6.8 7.9 8.7 9.1 6.4 8.0 7.2 10.2	587 1, 409 1, 837 2, 065 2, 121 1, 907 1, 831 1, 522 1, 080 577 271	604 1, 454 1, 864 2, 024 2, 052 1, 918 1, 852 1, 567 1, 097 635 353

1 See Table 1 (section on native white children) for the localities included.

It can not be assumed that the morbidity and the mortality will run parallel, but this might generally be expected. In the registration states in 1920 the death rates from whooping cough and from scarlet fever were slightly higher among females than among males, in agreement with the morbidity figures. But for measles the death rate was slightly lower among females, whereas the morbidity seemed higher in the group under study in this article. In the case of diphtheria, the morbidity showed no consistent difference between the sexes, but the mortality was slightly higher among the females.² No data are available on mortality from mumps or chicken pox in the United States.

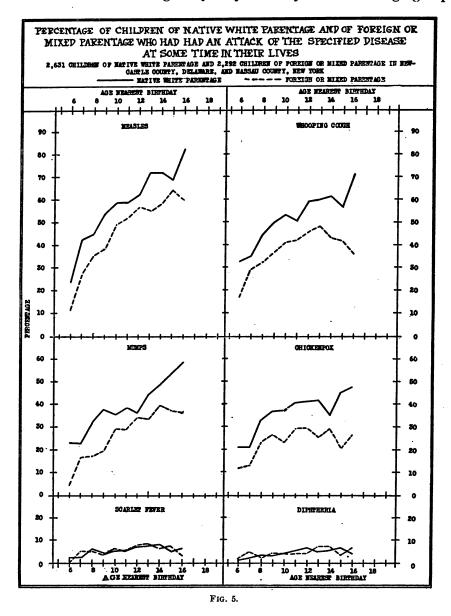
INCIDENCE AMONG NATIVE AND FOREIGN CHILDREN.

In two of the localities considered in this study there was a considerable number of children who were foreign born or of foreign parentage. Table 4 and Figure 5 compare the past incidence of the diseases among the children of native parentage with those of foreign or mixed parentage. In the case of measles, whooping cough, mumps, and chicken pox the curves for the native children are consistently

¹ A statistical study of measles. By Frederick S. Crum. Am. Jour. of Pub. Health, Vol. 4 No. 4, pp. 289-309, April, 1914.

² For the mortality from these diseases see pages 39-63, "Mortality Rates (United States) 1910 1920," Department of Commerce, Bureau of the Census, Washington ,Government Printing Office, 1923.

above those for the foreign children, but in the case of scarlet fever and diphtheria no consistent difference appears. The data at hand were not extensive enough to justify an analysis of the foreign group



by specific races. Such an analysis would seem essential before any definite conclusions could be reached as to the relative incidence of these diseases in the two groups.

TABLE 4.—Incidence by age and parentage of certain communicable diseases common among children.

Percentage of children of native white parentage and of foreign-born or mixed parentage at each age who had already had an attack of the specified disease-children 6-16 years of age in New Castle County, Delaware, and Nassau County, New York.

	Mea	sles.	Who cou	oping Mumps.		Chicken- pox.		Scarlet fever.		Diphtheria.		Number of children.		
Age nearest birthday.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.	Native white parentage.	Foreign or mixed parentage.
68 9	24. 4 42. 5 45. 1 59. 1 59. 1 62. 5 72. 3 72. 3 69. 1 82. 6	11. 8 27. 7 35. 6 38. 2 49. 5 52. 4 57. 0 55. 6 58. 6 64. 7 60. 0	33. 3 35. 5 45. 1 50. 4 53. 9 51. 2 59. 8 60. 7 61. 9 57. 3 71. 7	17. 8 29. 6 32. 7 37. 1 41. 6 42. 8 46. 2 48. 9 43. 6 42. 2 36. 7	23. 1 22. 9 32. 1 38. 0 35. 7 36. 3 44. 9 48. 9 53. 7 58. 7	4.7 16.9 17.3 19.6 29.7 29.0 34.3 33.3 33.8 37.3 36.7	21. 8 21. 5 33. 2 37. 2 37. 5 40. 9 41. 7 41. 9 35. 5 46. 3 47. 8	12. 4 13. 1 23. 6 26. 9 23. 6 29. 7 29. 9 25. 8 29. 3 20. 6 26. 7	2.6 2.8 6.5 5.0 5.5 5.6 7.9 8.2 5.1 6.5	.6 5.6 5.3 4.0 6.5 5.6 8.0 8.9 6.6 7.8 3.3	$\begin{array}{c} 1.3\\ 2.3\\ 3.6\\ 3.6\\ 4.3\\ 5.6\\ 5.3\\ 5.6\\ 5.3\\ 5.6\\ 6.6\\ 4.3\\ \end{array}$	2.4 5.2 2.8 4.7 4.4 4.5 4.4 7.6 7.7 3.9 6.7	78 214 277 363 347 303 333 303 231 136 46	169 213 284 275 293 269 251 225 181 102 30

INCIDENCE AMONG WHITE AND COLORED CHILDREN.

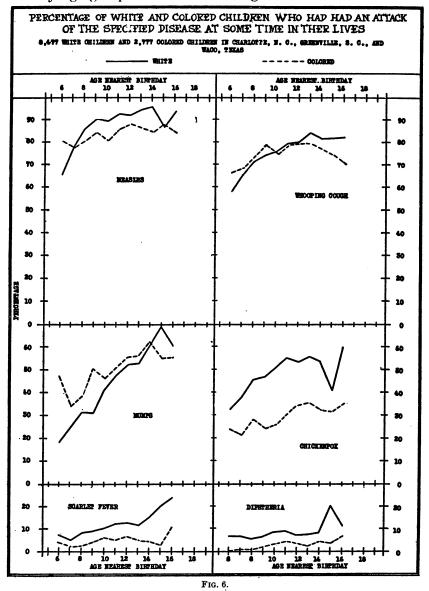
Data regarding incidence among white and colored children were collected from a considerable number of negro children in various localities, but in only three places was the number of negro children large enough to afford a comparison with the white children. Table 5 and Figure 6 make a comparison of the rates among white with those among negro children in Charlotte, N. C., Greenville, S. C., and Waco, Tex. In the case of chicken pox, scarlet fever, and diphtheria the curves for the negro children are considerably below those for the white children and the differences are consistent in the different age groups. The measles curve for the colored is below that for the white in most of the age groups. In the case of whooping cough there seems to be no consistent difference. The incidence of mumps is possibly greater among negro than among white children.

 TABLE 5.—Incidence by color and age of certain communicable diseases common among children.

Percentage of native white and of colored children at each age who had already had an attack of the specified disease -8,477 white children and 2,777 colored children 6-16 years of age in Charlotte, N. C., Greenville, S. C., and Waco, Tex.

Age	Measles.		Whooping cough.		Mumps.		Chicken pox.		Scarlet fever.		Diphtheria.		Number of children.	
birth- day.	White.	Col- ored.	White.	Col- ored.	White.	Col- ored.	White.	Col- ored.	White.	Col- ored.	White.	Cal- ored.	White.	Col- ored.
6 7 8 9 10 11 12 13 14 15 16	66. 3 78. 0 86. 4 90. 4 89. 8 92. 7 92. 3 94. 6 95. 8 86. 9 93. 7	81. 0 78. 4 81. 0 84. 7 81. 2 85. 8 88. 0 86. 8 84. 9 88. 0 84. 6	58. 4 65. 2 71. 4 74. 1 76. 0 79. 4 81. 1 84. 0 81. 8 81. 7 82. 0	66. 9 68. 5 74. 0 78. 4 74. 8 78. 9 79. 6 79. 4 76. 9 74. 3 70. 7	18.8 25.2 31.9 31.6 41.6 47.8 52.5 53.4 61.4 69.4 61.0	47. 9 34. 4 38. 4 51. 0 46. 8 51. 2 55. 3 56. 4 62. 7 55. 1 55. 3	33. 1 38. 1 45. 5 47. 2 51. 1 55. 4 53. 8 55. 9 53. 5 40. 4 60. 0	24. 0 21. 6 28. 3 24. 1 25. 8 30. 4 34. 2 35. 4 32. 5 31. 7 35. 0	7.9 5.5 8.9 9.4 10.8 12.6 13.2 12.2 15.6 20.5 24.4	4. 1 2. 3 2. 9 4. 1 6. 2 5. 3 7. 0 5. 1 4. 7 3. 0 10. 6	7.0 6.9 5.8 6.9 8.6 9.1 7.4 7.7 8.7 20.8 11.7	.8 1.0 2.2 3.1 4.6 3.2 2.3 4.2 3.6 5.5	356 860 999 1,086 1,119 1,010 986 869 621 366 205	121 305 315 365 325 303 284 257 212 167 123

Crum shows for white and for colored children the average annual case rates for measles reported in Washington, D. C., 1908–1912 in the age groups under 1 year, 1–4, 5–9, 10–19, and 20 years and over. In every age group the case rate is higher for the white children.⁴



Crum, in another study shows for the same age groups the case rate for diphtheria reported in Washington, D. C., 1908–1915, for white and colored children. The rates among the white children are generally higher than those among the colored children.²

¹ Loc. cit.

³ A statistical study of diphtheria by Frederick S. Crum. Am. Jour. of Pub. Health, Vol. 7, No. 5, pp. 445-477, May, 1917.

As to death rates, in the registration States of 1920 the mortality from scarlet fever and from diphtheria was very much higher among white than among colored children.¹ In regard to diphtheria, data for Washington, D. C., 1908–1915, given by Crum show the same thing, the death-rates being somewhat higher in most of the age groups among the white children than among the negroes.¹ The mortality from measles in the registration area of the United States in 1920 was greater among white children. The mortality from whooping cough was higher among the negroes, but the morbidity in this study did not seem to differ consistently for the two races.¹

VARIATION IN DIFFERENT LOCALITIES.

Table 6 shows the data by locality for the six places having considerable numbers of children included in the study. The percentage of children of a given age who had had a specified disease varies widely in the different localities.

TABLE 6.—Percentage of children at each age who had already had an attack of the specified disease—Native white children 6–15 years of age in 6 localities in the United States.

				,		,
Age nearest birthday.	Frederick County, Md.	Spartan- burg, S. C.	Char- lotte, N. C.	Louis- ville, Ky.	Fort Worth, Tex.	Waco, Tex.
	Meas	sles.				
6 7	43. 9 51. 3 55. 2 65. 9 65. 2 73. 6 77. 2 74. 4 83. 8 85. 7	72. 9 85. 2 84. 6 86. 3 91. 2 89. 1 90. 0 95. 9 94. 4 93. 9	58, 3 72, 5 82, 4 88, 6 87, 7 91, 1 90, 4 94, 4 96, 0 83, 6	69. 3 70. 4 71. 8 76. 5 79. 6 83. 8 82. 6 83. 8 82. 6 83. 0 87. 4 86. 8	90. 1 89. 7 90. 6 92. 9 92. 7 93. 0 91. 0 93. 7 91. 6 95. 2	84, 2 84, 8 91, 0 92, 4 94, 8 93, 2 95, 9 95, 7 90, 3
••••••••••••••••••••••••••••••••••••••	Whoopin	g cough.				_
6	68. 2 67. 0 65. 5 67. 4 51. 7 74. 0 71. 4 72. 7 71. 9 77. 5	49.6 64.8 64.7 72.7 76.5 79.1 82.3 85.6 83.2 78.8	50. 7 63. 4 71. 0 73. 2 75. 7 79. 5 80. 1 86. 6 82. 6 85. 0	39. 8 47. 7 58. 2 59. 4 67. 9 72. 6 72. 7 75. 3 74. 9 72. 9	46. 7 61. 4 67. 0 73. 4 69. 8 72. 1 71. 4 73. 4 77. 2 76. 9	75. 0 69. 3 72. 9 74. 7 76. 7 78. 2 81. 5 83. 3 82. 7 77. 1
	Mum	ps.				
6	13. 6 12. 5 19. 6 28. 9 33. 3 42. 0 40. 4 48. 3 55. 1 61. 5	17. 8 20. 8 27. 4 34. 2 38. 4 40. 3 45. 0 56. 8 59. 4 57. 6	22. 3 31. 9 39. 4 40. 1 49. 6 57. 5 64. 1 63. 8 69. 6 83. 6	19. 3 20. 0 26. 3 29. 5 37. 7 43. 4 47. 7 47. 3 52. 4 50. 4	33. 6 36. 0 42. 5 43. 7 49. 8 48. 9 50. 8 55. 6 60. 0 61. 5	5. 3 18. 8 25. 4 24. 5 34. 9 38. 0 43. 3 44. 2 54. 0 47. 2

¹Mortality rates, 1910-1920. Department of Commerce, Bureau of the Census.

1566

TABLE 6.—Percentage of children at each age who had already had an attack	of
the specified disease-Native white children 6-15 years of age in 6 localities	in
the United States—Continued.	

Age nearest birthday.	Frederick County, Md.	Spartan- burg, S. C.	Char- lotte, N. C.	Louis- ville, Ky.	Fort Worth. Tex.	Waco, Tex.
<u></u>	Chicke	n pox.				
6	38. 6 38. 0 39. 7 44. 8 47. 0 47. 6 47. 0 49. 1 52. 8 57. 7	22. 5 41. 1 36. 3 40. 1 38. 4 41. 1 41. 9 42. 3 48. 3 53. 0	37. 4 48. 9 57. 4 60. 3 63. 6 64. 5 64. 9 67. 6 65. 2 44. 0	28. 4 30. 4 33. 2 34. 6 46. 2 41. 9 49. 3 44. 2 57. 6 55. 0	34. 2 41. 0 44. 4 45. 8 46. 9 47. 6 49. 3 46. 3 45. 6 49. 0	17. 1 25. 2 34. 8 36. 4 40. 0 47. 2 45. 7 48. 1 43. 7 36. 1
	Scarlet	fever.				
6	10. 6 5. 7 9. 2 6. 5 5. 6 10. 2 7. 3 7. 0 7. 6 5. 5	5.4 5.9 7.9 9.9 8.8 10.1 10.4 8.6 12.6 10.6	10. 4 9. 2 10. 8 12. 7 13. 6 16. 1 12. 4 12. 6 11. 6 13. 0	1. 1 3. 1 4. 1 5. 4 8. 0 9. 7 9. 6 15. 4 12. 1 17. 8	4.6 8.7 10.3 12.0 11.3 15.3 16.4 11.0 15.2 11.5	3.9 9.1 7.5 6.6 10.2 15.3 9.5 13.1 14.0 11.8
· · · ·	Diphth	eria.			•	
6	0.8 2.5 4.1 4.2 4.1 5.0 4.8 4.7 6.3 4.4	1.6 5.5 5.8 7.1 7.2 4.3 4.6 3.2 7.0 3.0	6. 6 7. 4 6. 8 6. 4 8. 6 8. 2 8. 8 5. 4 6. 2 31. 4	2.3 3.5 4.4 5.7 3.7 6.8 9.9 7.9 9.5 7.8	3.9 7.1 7.7 8.2 9.8 11.7 10.4 9.8 5.6 11.5	5. 3 6. 6 4. 3 7. 2 9. 3 9. 0 5. 8 9. 0 10. 3 6. 9
	Number of	children.				
6	132 279 368 402 466 462 413 344 303 182	129 236 292 322 307 258 260 222 143 66	211 448 472 481 536 473 396 3473 276 207	88 200 316 387 337 339 333 292 231 129	152 505 702 794 785 685 598 410 250 104	76 361 469 514 450 458 497 412 300 144

SUMMARY.

In the course of certain studies in child hygiene, information was obtained from approximately 35,000 school children from 5 to 19 years of age as to whether they had ever had measles, whooping cough, mumps, chicken pox, scarlet fever, or diphtheria. The children were classified according to age, sex, color, and nativity or nativity of the parents. The curves of the percentage of children who had had an attack of these diseases at some time in their lives rises fairly rapidly as age increases until about the thirteenth or fourteenth year, after which time the rise is very slow, except in the case of mumps, which continues to rise considerably through the nineteenth year. The slackening in the rate of increase presumably means that the susceptible material is largely used up.

When the annual incidence was considered it was found that for the ages studied the maximum incidence of measles was at 6 to 7 years; whooping cough, 5 to 6 years; mumps, 7 to 9 years; chicken pox, 5 to 6 years; scarlet fever, 8 to 10 years; and diphtheria, 5 to 7 years. As age increases, within the limits of those included in this study, the annual incidence rapidly declines.

By the time the adult ages were reached, about 89 per cent of the children had had measles, about 78 per cent had had whooping cough, 65 per cent mumps, 52 per cent chicken pox, 12 per cent scarlet fever, and 9 per cent diphtheria.

Measles, whooping cough, chicken pox, and scarlet fever seem to have been more prevalent among girls than among boys. The rates for mumps and diphtheria are about the same for the two sexes.

Measles, whooping cough, mumps, and chicken pox seem to have been more prevalent among the native white than among the foreign children. The rates for scarlet fever and diphtheria seem to be about the same for the two groups.

Measles, chicken pox, scarlet fever, and diphtheria seem to have been more prevalent among the white than among the colored. The rates for mumps were possibly higher among the colored. Whooping cough seemed to be about the same in both groups.

A NOTE ON THE PREVENTION OF LEAD POISONING IN CERTAIN RUBBER-WORKING INDUSTRIES.

By LEONARD GREENBURG, Associate Sanitary Engineer, Office of Industrial Hygiene and Sanitation, United States Public Health Service.

One of the methods recommended for preventing industrial poisonings in certain industries is the use of water or some other suitable liquid which, when mixed with the toxic substance, prevents its dissemination in the atmosphere in the form of dust. In this manner the hazard due to inhalation and ingestion of the substance may be materially reduced.

At the present time many rubber-working industries utilize compounds of lead for the purpose of accelerating the vulcanization process. Certain of these industries also make use of substances of the nature of oils or petrolatum, known as "softeners," for the purpose of giving the final product a desired texture. The lead hazard in such a rubber-working plant has recently been brought to the attention of the Public Health Service. In this particular case, lead dust was disseminated in the atmosphere of the workroom at many points, practically every time the "batch" was handled by the workers prior to its final milling. As a solution of the leadpoisoning hazard at this plant, it was recommended that the litharge and petrolatum be prepared at a point removed from all other workers, and that this salve, composed of the proper proportions of litharge and petrolatum (8 : 1), then be brought into the compounding room and the requisite amount weighed out and added to each "batch." By this simple procedure the toxic dust was eliminated from all points in the workroom but one, and there it was in contact with only one worker.

It is understood that some plants can not make use of such a method as the above; but this procedure may be of value to others in mitigating the lead-poisoning hazard.

IODINE DEFICIENCY AND THE PREVALENCE OF SIMPLE GOITER IN MICHIGAN.

An interesting preliminary report on investigations made by the Michigan State Department of Health regarding iodine deficiency in the water and the prevalence of simple goiter in various sections of Michigan has recently been published by Dr. R. M. Olin, State health commissioner.¹ The report presents a résumé of the important data brought out in the different field surveys regarding the prevalence of simple goiter and the iodine content of the water in the sections surveyed.

GOITER PREVALENCE AND IODINE CONTENT OF WATER.

Doctor Olin states that although the unusual prevalence of goiter in Michigan had been a matter of common knowledge for years, it had occasioned little concern either to the public or the medical profession until 1918, when the selective draft brought out the fact that northern Michigan and Wisconsin had a real public health problem in this disease. In the fall of 1919 the first step was taken to secure accurate data and the traveling representatives of the Michigan Department of Health were instructed to collect all possible information relative to the prevalence of goiter in various sections of the State. This personnel included the traveling tuberculosis clinic, medical inspectors, public health nurses, and laboratory field workers.

In March, 1919, Dr. Simon Levin called attention to the prevalence of goiter in the drafted men, and in 1921 he published a paper showing that of 1,783 persons in Lake Linden, Mich., 1,146 (64.4 per cent)

¹ Jour. A. M. A., Apr. 26, 1924, pp. 1328-1332.

had thyroid enlargement. In January, 1922, representatives of th State department of health made a survey of Iron Mountain, Mich. which showed that 54 per cent of the persons examined had percep tible thyroid enlargements. In the same year Doctor Marine wa called from New York to deliver an address before the annual confer ence of State health officers, in order that information might be had as to the methods of procedure followed by Doctors Marine and Kimball in Ohio.

Shortly afterwards, Doctor Slemons, health officer of Granc Rapids, made a survey of that city. The results of the two surveys in northern Michigan, one by Levin and one by the State department of health, when compared with the data obtained in the Grand Rapids survey, showed a great difference in the percentage of persons affected. Consequently, Doctor Olin, in conference with the advisory council of health, decided to make some careful surveys of representative sections of the State with regard to the prevalence of goiter and the iodine content of the water. Fifty samples of water, of 15 gallons each, were collected from localities representing the whole Four counties were then chosen as those showing the greatest State. differences in the iodine content of the water. Six samples of water from each county were collected and analyzed, and a goiter survey was made in each county. These counties were Houghton, in the northwestern part of the Upper Peninsula; Wexford, in the northwestern part of the Lower Peninsula, and inland from the lakes: Macomb, about midway of the southern half of the Lower Peninsula on the extreme east side and partially bordered by the waters of Lake St. Clair; and Midland County, in the east central part of the Lower Peninsula. A report on the geological formation of these sections will be made in the future by officers of the Michigan State Geological Survey, who state that there are some fundamental geological considerations involved in the variation of the iodine content of the waters of these areas.

The following table presents the findings with regard both to the prevalence of goiter and the iodine content of water:

	Average			Bo	ys.	Gi	rls.
County.	iodine content of water (parts per billion).	Per cent found with goiter.	Total number exam- ined.	Number exam- ined.	Per cent found with goiter.	Number exam- ined.	Per cent found with goiter.
Macomb Midland Wexford Houghton	8.7 7.3 .5 .0	26. 0 32. 7 55. 6 64. 4	10, 258 3, 645 3, 984 13, 725	5, 152 1, 834 1, 963 6, 860	20. 1 24. 4 47. 6 41. 9	5, 106 1, 811 2, 021 6, 865	32. 0 41. 1 63. 4 70. 5
Total		47. 2	31, 612	15, 809	40. 5	15, 803	46. 2

^{100358°-24†-2}

Localities separated by only a few miles varied greatly in the percentage of thyroid enlargements found. In Macomb County, Mount Clemens had 26 per cent thyroid enlargement, whereas Romeo, 12 miles distant, had 75 per cent. Mount Clemens has an iodine content in the city water of approximately 25 parts per billion, whereas the Romeo water was found not to contain a trace of iodine in 50 liters. In the rural portions of Wexford County the incidence of goiter was about 10 per cent higher than that found in the city of Cadillac, which is the only city in the county. Attention is called to the fact that the iodine available in the food supply as well as that in the water must be considered. The analyses of the samples of water taken from various parts of the State indicate that an increase in goiter incidence will be shown in going from south to north—a minimum incidence in the south to a maximum in certain areas in the northern Peninsula.

INCIDENCE OF GOITER AT CERTAIN AGES.

The following table presents the data by age of patient:

Ages of patients	Total, four counties.		Macomb County.		Midland County.		Wexford County.		Houghton County.	
with goiter.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
5	244 380 490 543 640 706 700 669 645 562 406 406 208 118 45 315 34	200 421 542 612 699 817 812 891 892 891 892 850 740 456 326 175 50 26	29 62 84 109 132 132 101 105 87 53 26 15 3 0 6	28 68 104 123 116 168 159 177 184 161 183 78 57 19 4 9	12 23 42 43 52 65 44 48 35 44 48 35 43 28 5 2 3 0 2	13 465 558 61 73 72 67 52 31 31 9 5 3	36 500 67 78 85 97 104 101 113 76 58 37 23 37 23 7 2 0	28 52 69 87 112 120 129 130 129 130 336 3115 81 81 60 300 22 22 0	167 245 297 328 304 412 420 419 352 356 267 140 78 32 32 13 26	131 255 314 344 396 455 512 506 4366 4366 4366 178 390 266 178 107 23 14

Goiter incidence by ages.

Goiter incidence in these groups of population was uniformly higher among girls than among boys, but not as much higher as was found in the surveys at Grand Rapids, Mich., Akron, Ohio, and other localities, the proportion being approximately four girls to three boys.

The greatest number of cases among boys was found at age 10, whereas the greatest number among girls was found at age 12.¹ Doctor Olin observes that this suggests that congenital cases run approximately even as regards the sexes up to age 10, and that the rate decreases in boys after this age, whereas the girls show an apparent increase during adolescence up to age 13.

¹ Percentages rather than absolute numbers should be the basis for determining the ages of greatest incidence, but the number examined at each age is not given -Ed.

1571

GOITER INCIDENCE AND SCHOOL STANDING.

In regard to school standing it was found that there was definitely a greater percentage below school grade among pupils affected with enlarged thyroid than among nongoitrous pupils. The following table shows the percentage of nongoitrous and goitrous boys and girls found below school grade:

	Perce	Percentage below school grade-							
County.	Во	ys.	Gi	rls.					
	Non- goitrous.	Goitrous.	Non- goitrous.	Goitrous.					
Macomb ''idland w exford Houghton	23. 0 32. 6 23. 9 24. 7	29. 0 38. 5 29. 9 25. 9	19. 0 18. 1 11. 4 12. 5	25. 0 28. 2 21. 2 16. 3					

Doctor Olin concludes: "Although there is a great deal of work to be done before the final report can be made on the prevalence of simple goiter in Michigan, we believe that the four years' study that has led up to this preliminary report has given us sufficient data so that a method of prevention can be recommended that will be fundamentally adapted to remedying the iodine deficiency for the whole population of the State."

The methods of prevention discussed are the administration of sodium iodide in chocolate tablets once a week for 40 weeks to all children in the schools, iodizing the drinking water, and the use of iodized salt.

The advantage of supplying the iodine deficiency through a universal household necessity, Doctor Olin observes, would eliminate practically all administrative detail and would solve the problem for both urban and rural districts.

OUTBREAK OF PARATYPHOID FEVER TRACED TO CERTIFIED DAIRY.

An outbreak of gastroenteritis occurring among the children of New Rochelle, N. Y., and vicinity during March, April, and May has recently been reported by district State health officers to have been an epidemic of paratyphoid fever, transmitted through the milk from a certified dairy. The following statements regarding the outbreak are taken from the Health News Service, issued by the New York State Department of Health:

"The report is based upon the investigation of 50 cases, the onsets of which were from March 5 to May 7. These cases occurred in New Rochelle and in neighboring municipalities. Each of the 50 patients was said to have used certified milk produced at and sold by a single dairy. Water as a causative factor was eliminated, because the primary districts represented were served by a number of different water supplies.

"The youngest patient was 3 months old. Forty-nine of the fifty patients studied were under 6 years of age. The remaining patient, 40 years of age, had a gastric ulcer and was on a special diet which included this certified milk.

"When the investigation was begun, only one patient was still in the acute stage. At the State laboratory, *Bacillus paratyphosus B* was found in the stool from this case. Subsequently another case was found, in the stools of which the same organism was discovered. Examination of the stools of the workers at the dairy was made by a local laboratory, and in one instance *Bacillus paratyphosus B* was isolated. Later this finding was confirmed at the State laboratory. One of the active cases was the baby in this carrier's family.

"One of the interesting features of the investigation was the early discovery, in one of the cows, of an acute mastitis from which *Streptococcus hemolyticus* was isolated, and the conclusion might readily have been drawn that this was the cause of the epidemic. The subsequent findings emphasize the necessity for thorough and complete information before arriving at definite conclusions regarding the source of any epidemic."

CURRENT WORLD PREVALENCE OF DISEASE.

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT FOR MAY, 1924, ISSUED BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS.

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

The following review is based on current information published in the May number of the Monthly Epidemiological Report of the health section, Lague of Nations' Secretariat at Geneva, Switzerland. This report contains weekly or monthly statistics of cases (and deaths when available) for 13 principal diseases ¹ in 71 countries and colonies so far as these diseases are notifiable, and of mortality from all causes and from certain important causes for a selected list of large cities of the world.

Aside from the extraordinary malaria situation in Russia, Albania, and other southeastern European countries, upon which information had been given in previous issues of the Monthly Report, probably the outstanding feature of the May number is the statistics on the wave of influenza prevalence which appeared in certain countries in the spring of this year. The Report states that "the influenza

¹ Plague, cholera, yellow fever, typhus fever, relapsing fever, smallpox, cerebrospinal meningitis, poliomyelitis, lethargic enciphalitis, influenza, scarlet fever, diphtheria, and enteric fever.

epidemic has practically come to an end in Europe and no severe outbreak has been reported so far from America or any other part of the world." It is interesting to note, as the Report points out. that the epidemic occurred some weeks later in central Europe than in England and was much milder. For example, during the five weeks of maximum prevalence, 941 deaths were registered as directly due to influenza in the 46 large German cities as against 3,301 deaths in the large English towns having only a slightly larger population. A characteristic of the epidemic wave of this year, upon which the Report comments, was its very irregular progress, the maximum for the different cities occurring at different times within a period of three or four months with no well defined geographical movement. The accompanying table has been compiled from the statistics in the Report and shows the mortality rate for influenza alone in the cities specified.

Mortality (rate per 100,000) from influenza in certain large cities, October, 1923-March and April, 1924.1

		Mon	th, or 4 v	veeks per	riod ende	×d—		
City or cities.		1923			19	24		
	Nov. 3.	Dec. 1.	Dec. 29.	Jan. 26.	Feb. 23.	Mar. 22.	Apr. 19.	1923 ²
46 German cities Berlin Breslaw Celogne Dresden Hamburg Munich Belfast Glasgow London Madrid ³ Milan ³ Stockholm 26 Swiss cities Rio de Janeiro 97 United States cities	.7 .6 .2 .5 .1 2.1 .4 .6 1.3 .03 .03	0.7 .9 .9 .8 .7 .2 .7 .4 .9 .5 .1.0 .1.6 .2 .2 .5 .3.2	1.4 2.0 1.1 1.5 1.0 2.1 3.2 1.4 1.7 2.1 3.2 .9 1.4 1.7 .9 4.0	$\begin{array}{c} 1.5\\ 2.0\\ 3.6\\ .9\\ 2.8\\ 1.8\\ 4.9\\ 3.9\\ 6.17\\ 1.7\\ 5.8\\ .55\\ 1.5\\ 3.9\\ .9\end{array}$	1.9 2.3 3.0 2.9 1.5 2.3 1.6 13.3 3.8 13.3 4.9 1.6 1.8 11.1 10.5 3.7 1.3	4.2 7.3 5.8 4.1 1.9 2.3 7.7 7.5 9.4 1.2 .7 3.8 12.5 6.5 1.4	 	2.8 2.7 5.0 2.0 3.4 4.8 5.6 .4 4.7 2.0 .3 .1.5 12.9

¹ Computed from data published in the Monthly Epidemiological Report, health section, League of Nations' Secretariat, May 24, 1924 (R. E. 66, pp. 451-455), except for United States cities, which were compiled from the current Public Health Reports.

² For the period corresponding to the latest available in 1924. ³ Monthly, but adjusted to a 28-day period.

In Denmark there were nearly 25,000 cases of influenza in March as against about 10,000 in February; in Sweden about 2,300 in March as against 2.440 in February. The very marked epidemic in Switzerland is stated to have definitely ended, only 75 cases having been reported during the last week of April as against a weekly maximum of 5,563 at the end of February. In Spain 1,635 deaths were registered as due to influenza in February as against 853 in the same month of 1923.

The high incidence, relatively, of lethargic encephalitis in certain parts of Great Britain, as well as an increased incidence of this discase in several other countries, naturally revives the question of its relation to influenza. The Report states that "the prevalence of encephalitis lethargica has not coincided with that of influenza, as was the case in the Swiss epidemic of 1920, and no cases of the former disease have occurred in several cities seriously affected by influenza." The possible relation of the two diseases is of such great interest that a special tabulation was prepared of the deaths from influenza and of the morbidity incidence of lethargic encephalitis in certain cities where a noticeable incidence of both diseases occurred. It is reproduced in slightly different form below.

						1924	: We	ek en	led—					
City and disease.	February.			March.				April.				May.		
	2	9	16	23	1	8	15	22	29	5	12	19	26	3
London:														
Encephalitis lethargica. Influenza	122	4 154	0 178	2 148	3 139	1 115	4 89	10 83	20 49	17 45	23 28	33 45	31 21	50 27
Bristol: Encephalitis lethargica.	0	0	0	1	0	1	1	2	1	4	8	13	8	12
Influenza	n	19	27	25	14	20	13	13	13	5	4	3	3	3
Birmingham: Encephalitis lethargica.	1	3	0	0	2	2	. 3	12	6	20	27	29	17	20
Influenza	6	6	12	23	25	41	38	36	32	30	21	8	6	5
Liverpool: Encephalitis lethargica	2	2	0	0	2	0	0	4	15	4	4	3	4	6
Influenza	4	8	13	15	21	17	16	8	14	3	5	7	6	ľ
Manchester:														
Encephalitis lethargica. Influenza	1	9 5	13	16 4	22 13	29 22	23	18 21	15 44	13 21	10 29	5 19	5 16	4
Sheffield:	4	9	ಿ	*	19	- 66		21	TT	1	23	19	10	12
Encephalitis lethargica.	0	0	0	0	0	0	4	9	14	19	37	41	26	23
Influenza	3	4	5	3	6	7	9	13	14	15	10	12	13	13

Influenza mortality and encephalitis morbidity in 6 English cities, January 27– May 3, 1924.¹

¹Compiled from Monthly Epidemiological Report, health section, League of Nations' Secretariat, May, 1924 (R. E. 66, p. 426) The data in this table are for cases of encephalitis lethargica and for deaths from influenza.

A considerable outbreak of cerebrospinal meningitis occurred in northern Nigera, where 282 cases and 192 deaths were reported in February as against 124 cases and 64 deaths in January. Only a few cases were reported in Uganda, where serious epidemics had occurred in 1922 and 1923. It is pointed out that epidemics of this disease have become frequent in the northern tropical prairie belt of Africa during recent years. In the other parts of the world, however, cerebrospinal meningitis is stated to be less prevalent so far in 1924 than in 1923.

So far as the plague situation is concerned, the two most interesting developments are those in India and in the Union of South Africa. The reports from India up to March 15 indicate that while the total incidence has not varied much from the previous year, the geographical distribution of the disease is markedly different. Nearly one-half of the cases are reported from the Punjab, which was not severely affected in 1923, while the United Provinces and Bihar and Orissa are not as severely affected as in the previous year. Assam is free from plague, as usual, and Bengal is practically free from the The outbreak in Madras appears to be coming to an end. disease. In the Union of South Africa there was a considerable extension of the plague-infected area toward the end of March. Cases were observed in several new districts. Ninety-five new cases were reported from March 2 to 29, the total number of cases from December 16 to March 29, being 222, of which 131 proved fatal. The fatality rate has been 39 per cent for whites and 62 per cent for negroes. Unofficial reports from Russia indicate certain prevalence of plague about the middle of April in the republic of Kharezma (Khiva) and in the Amu-Daria district, Province of Turkestan.¹

No unusual developments in the prevalence of cholera have been reported, practically all the cases being in British and French India.

As regards typhus and relapsing fever, it is stated that typhus is less prevalent everywhere than during the previous winter and spring. Cases of relapsing fever are rarely mentioned in the reports.

After commenting upon the relatively high prevalence of smallpox in certain sections of the United States, the report mentions the definite decline of smallpox incidence in Hongkong, where a severe epidemic has been in progress since November, 1923. In the fortnight of March 2–15, 27 cases and 23 deaths were reported, as compared with 50 cases and 52 deaths in the previous fortnight, and 88 cases and 84 deaths in the period February 3–16. An increase in the prevalence of smallpox in Japan began in December, 1923, and had continued up until February 20, 1924, the date of the latest report. In England and Wales considerable prevalence of smallpox is still reported, as well as in Switzerland. The type in both countries is said to be very mild.

No unusual developments in the prevalence of scarlet fever and diphtheria have appeared, according to the reports. Scarlet fever has apparently declined in most of the countries of Eastern and Southeastern Europe, where the disease has been much more frequent than diphtheria. In Western and Central Europe there has been a very slight decline.

The widespread epidemic of measles, on the other hand, apparently reached its maximum in March and April. In 105 large English towns the disease caused 724 deaths during the five weeks ending April 26. In Italy there were over 9,000 cases of measles during the four weeks ending April 6, as against 6,355 during the previous four weeks, with indications that the epidemic was increasing. An increased incidence of the disease is reported also from the Balkan countries and in Turkey, particularly the city of Angora.

The current statistics of notifiable diseases in Japan are included for the first time in the Monthly Epidemiological Report, delay being due to the fact that the Japanese epidemiological service was somewhat disorganized and many records were destroyed by the earthquake. The reports are furnished for 10-day intervals. In this connection it may be of interest to note the comment on the registration of vital statistics and notification of infectious diseases in Japan made by Dr. F. Norman White, chief epidemic commissioner of the League of Nations, in his report, which has just been issued, on epidemic conditions in the Far East. Doctor White says: "It is doubtful whether there is any country in which the registration of births and deaths is carried out with greater accuracy than it is in Japan. In towns and villages alike, all houses are subjected to frequent and regular visits by police officials, who keep a careful record. not only of the number and age of all inmates of each house, but also of such matters as vaccination, school attendance, occupation, and the like. In this way it would be almost impossible for either a birth or death to go unrecorded. The registration of births and deaths is, of course, compulsory. Similarly, the occurrence of cases of infectious disease is little likely to escape observation. Here it may be remarked that the number of qualified medical practitioners in Japan is very large, equivalent to one practitioner for every 1,250 of the population of the country. Though the distribution of these medical practitioners is, of course, by no means uniform, there are few, if any, parts of the country in which sufficient skilled medical attendance is not available." 1

The statistics published in the Monthly Epidemiological Report are summarized by months for the period September, 1923–February, 1924, in the following table:

Incidence of certain infectious diseases in Japan, September 1, 1923–February 20, 1924.^a (For Japan, exclusive of territories; population in 1921–56,926,500.)

		19	1924			
Disease.	Septem- ber.	October.	Novem- ber.	Decem- ber.	January.	Feb. 1-20
Cholera Diphtheria Paratyphoid fever. Typhoid fever. Cerebrospinal meningitis. Scarlet fever Typhus fever. Smallpox.	0 547 721 6, 945 88 54 0 2	0 959 894 8, 410 79 85 0 36	4 1, 272 531 6, 736 27 149 0 37	0 1, 623 348 5, 685 22 190 0 206	0 1, 304 217 3, 693 32 132 0 463	0 921 122 2, 437 27 102 0 343

^a Compiled from Monthly Epidemiological Report, health section, League of Nations' secretariat, May, 1924 (R. E. 66, p. 445).

¹ The prevalence of epidemic disease and port health organization and procedure in the Far East. Report presented to the health committee of the League of Nations, Geneva, 1923, page 92.

A note on the epidemic situation in Poland from the epidemiological correspondent in Warsaw states that "during the first twelve weeks of the year Poland has experienced no widespread epidemic and the general health conditions are satisfactory as compared with the years following the war." Some increase is evidenced in the incidence of smallpox over the preceding year, the cases being confined chiefly to southwest Poland. The incidence of typhus fever has shown a slight increase during 1924, the greatest prevalence being in the eastern zones. It is of more than passing interest to note that the outbreaks in 1924 are of endemic origin; since the repatriation movement has practically ceased, the large quarantine stations at Bialystok and Dorohusk having been closed. Cases of relapsing fever are rare, and five of the provinces are practically free. The prevalence of enteric fevers, including typhoid and paratyphoid. continues to decline. It is stated that the decrease in the incidence may be attributed to the vaccination campaign which was carried out late Some increase is indicated in the prevalence of scarlet fever in 1923. in Poland.

The infant mortality in certain large cities of the world is being published currently in the Monthly Epidemiological Report. In view of the interest which is attached to the infant mortality rate in certain European countries, the following table has been compiled from the statistics published in the report:

Infant mortality rates in certain large cities of Europe, December 30, 1923—April 19, 1924.¹

	1924:	Four week	s period er	nded—	Four weeks
City or cities.	Jan. 26.	Feb. 23.	Mar. 22.	Apr. 19.	ended A pr. 21, 1923.
105 English cities London Glasgow Belfast Dublin Stockholm 46 German cities Berlin Hamburg Cologne Dresden Munich 26 Swiss cities	86	115	118	103	78
	81	114	95	78	60
	148	184	204	128	91
	160	170	121	125	152
	131	152	127	102	117
	55	48	30	56	61
	108	115	122	120	132
	111	100	128	111	138
	89	100	87	169	115
	123	100	100	113	140
	94	107	111	96	116
	138	119	175	151	167
	47	48	76	67	54
Lille.	91	121	97	94	128
Paris	93	98	128	115	76
New York.	73	72	87	85	77

¹ Compiled from Monthly Epidemiological Report, health section, League of Nations' Secretariat, May, 1924 (R. E. 66, p. 450).

Mortality rates are published for between 250 and 300 large cities of the world in weekly form for the latest week available and for the previous six months, as well as for the corresponding week of the previous year. Similar statistics for a list of smaller cities are published for the principal infectious diseases.

1578

DEATHS DURING WEEK ENDED JUNE 14, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended June 14, 1924, and corresponding week of 1923. (From the Weekly Health Index, June 17, 1924, issued by the Bureau of the Census, Department of Commerce.)

	Week ended June 14, 1924.	Corresponding week, 1923.
Policies in force	56, 324, 470	52, 450, 675
Number of death claims	10, 877	10, 439
Death claims per 1,000 policies in force, annual rate_	10. 1	10. 4

Deaths from all causes in certain large cities of the United States during the week ended June 14, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, June 17, 1924, issued by the Bureau of the Census, Department of Commerce.)

	14, 1524. de		Annual death rate per 1,000,	Deaths under 1 year.		Infant mortal- ity rate.
City.	Total deaths.	Death rate. ¹	corre- sponding week, 1923.	Week ended June 14, 1924.	Corre- sponding week, 1923.	week ended June 14, 1924. ³
Total (65 cities)	6, 187	11.9	3 11. 2	755	3 710	
Akron Albany * Albany * Atlanta Baltimore * Birmingham Boston Bridgeport Buffalo Cambridge Camden Chicago * Cincinnati Celveland Columbus Dallas Dayton Derver Detroit Duluth Eric Fall River 4 Flint Fort Worth Grand Rapids Jacksonville, Fla Jacksonville, Fla Jacksozity, Kans Kansas City, Kans Louisville Lowiell	$\begin{array}{c} 355\\ 52\\ 72\\ 165\\ 63\\ 209\\ 209\\ 209\\ 205\\ 126\\ 40\\ 31\\ 119\\ 117\\ 59\\ 53\\ 255\\ 73\\ 26\\ 278\\ 278\\ 278\\ 278\\ 33\\ 20\\ 222\\ 33\\ 36\\ 89\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88$	22.9 16.5 11.0 16.4 14.0 18.6 12.8 11.4 15.2 10.1 11.5 14.7 7.7 9.3 9.1 14.2 7.7 10.9 9.1 14.2 7.7 10.9 13.2 11.2 9.7 15.9 12.8 10.9 17.6	9,8 19,2 13,0 18,1 12,7 11,1 13,6 8,8 10,5 14,8 8,7 11,4 11,2 10,7 11,4 11,2 10,7 12,2 	$\begin{array}{c} 2 \\ 2 \\ 6 \\ 6 \\ 9 \\ 9 \\ 12 \\ 28 \\ 3 \\ 20 \\ 5 \\ 7 \\ 70 \\ 14 \\ 28 \\ 10 \\ 12 \\ 3 \\ 5 \\ 1 \\ 40 \\ 4 \\ 4 \\ 10 \\ 10 \\ 6 \\ 8 \\ 6 \\ 8 \\ 5 \\ 3 \\ 3 \\ 2 \\ 4 \\ 1 \\ 9 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	3 3 14 27 7 27 24 5 1 69 15 21 5 8 24 3 21 5 8 24 3 21 25 8 24 3 11 29 9 25 9 20	21 132 55 78 87 47 47 85 87 111 65 88 89 50 50 50 50 74 86 82 141 141 82 62 120 62 120 68 89 78 89 78 89 78 89 78 89 78 80 73 95 50 78 80 73 95 50 74 80 73 95 50 74 80 73 95 50 74 80 73 95 50 74 80 74 80 80 73 95 50 74 80 80 73 95 50 74 80 80 73 95 50 74 80 80 74 80 80 73 95 50 74 80 80 74 80 80 80 80 75 80 73 95 50 74 80 80 80 74 80 80 80 80 74 80 80 80 80 80 80 75 80 80 80 80 80 80 80 80 80 80
Lynn Memphis Milwaukce Minneapolis Nashville 4 New Bedford New Haven New Orleans	18 54 83 94 39 23 37 176	9.1 16.3 8.8 11.7 16.5 9.0 11.0 22.4	12.7 11.7 11.2 8.7 12.3 10.4 8.7 16.2	3 10 12 8 4 5 4 26	5 13 6 7 3 5 16	76 55 43 78 52

¹ Annual rate per 1,000 population.

^a Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1923. Cities left blank are not in the registration area for births.

³ Data for 63 cities. ⁴ Deaths for week ended Friday, June 13, 1924.

Deaths from all causes in certain large cities of the United States during the wee	
ended June 14, 1924, infant mortality, annual death rate, and comparison wit	h
corresponding week of 1923—Continued.	

	Week ended June 14, 1924.		Annual death rate per 1,000,	Deaths under 1 year.		Infant mortal-
City.	Total deaths.	Death rate.	sponding week, 1923.	Week ended June 14, 1924.	Corre- sponding week, 1923.	ity rate, week ended June 14, 1924.
New York Bronx Borough Brooklyn Borough Manhatan Borough Queens Borough Richmond Borough Newark, N. J. Norfolk Oakland Oklahoma City Omaha Philadelphia Philadelphia Providence Richmond Rochester St. Louis Salt Lake City 4 San Antonio San Francisco Schenectady Sentele Somerville Spokane Springfield, Mass	$\begin{array}{c} 1, 241 \\ 159 \\ 375 \\ 573 \\ 375 \\ 573 \\ 90 \\ 44 \\ 87 \\ 35 \\ 377 \\ 21 \\ 66 \\ 21 \\ 428 \\ 152 \\ 152 \\ 56 \\ 68 \\ 208 \\ 60 \\ 65 \\ 61 \\ 142 \\ 144 \\ 63 \\ 16 \\ 188 \\ 36 \\ 422 \end{array}$	$\begin{array}{c} 10.8\\ 9.5\\ 8.9\\ 913.2\\ 8.5\\ 17.6\\ 10.2\\ 11.1\\ 7.8\\ 10.5\\ 7.8\\ 11.4\\ 12.7\\ 9.2\\ 12.8\\ 18.4\\ 10.9\\ 92\\ 13.3\\ 12.8\\ 18.4\\ 14.2\\ 16.6\\ 13.5\\ 7.3\\ 3\\ 12.6\\ 11.6\\ 11.6\\ 11.6\end{array}$	10. 3 7. 8 9. 5 12. 4 7. 2 15. 5 9. 9 9. 8 9. 6 	$\begin{array}{c} 142\\ 100\\ 44\\ 711\\ 12\\ 5\\ 12\\ 9\\ 5\\ 12\\ 9\\ 5\\ 1\\ 8\\ 2\\ 500\\ 166\\ 2\\ 1\\ 1\\ 3\\ 15\\ 8\\ 2\\ 7\\ 1\\ 1\\ 3\\ 15\\ 8\\ 2\\ 7\\ 1\\ 1\\ 3\\ 6\\ 6\\ 6\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	138 4 48 76 5 5 5 77 7 7 4 4 37 27 27 27 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	57 35 47 69 66 91 56 164 63 33 64 54 21 90 106 55 50 50 9 50 0 68 87 70 68 74
Tacoma. Toledo. Trenton. Utica. Washington, D. C. Waterbury. Wilmington, Del. Worcester. Yonkers. Youngstown.	24 69 37 24 110 19 22 34 16 30	12. 1 13. 0 14. 9 11. 9 11. 8 9. 6 9. 1 7. 6 10. 1	11.8 10.6 13.5 8.6 10.1 10.2 9.0 7.3 12.8	2 10 6 8 3 1 7 4 6	1 13 6 2 11 5 2 5 5 4	46 95 98 173 46 67 22 84 87 87

4 Deaths for week ended Friday, June 13, 1924.

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 WEEKLY STATE REPORTS.

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 June 21, 1924.

	ALABAMA.	lases.	CALIFORNIA. Ca	ases.
Chicken nor			Cerebrospinal meningitis—San Francisco	
			Diphtheria	
			Influenza	
			Leprosy-Los Angeles	
			Lethargic encephalitis:	
			Merced County	1
			San Francisco	
•	orum		Measles	
-		-	Scarlet fever	117
			Smallpox:	
Pnoumonia	·····	27	Long Beach	9
			Los Angeles	
			Los Angeles County	
-			San Diego	
			Scattering	
			Typhoid fever	
Whooping cought		• ••		
	ARIZONA.		COLORADO.	
			(Exclusive of Denver.)	
			Chicken pox	9
Dysentery			Diphtheria	
		-	Measles	
-		-	Mumps	11
			Pellagra	1
			Pneumonia	2
Typhoid fever		. 3	Scarlet fever	7
	ARKANSAS.		Smallpox	2
		. 13	Tuberculosis	33
			Typhoid fever	1
			Whooping cough	2
			CONNECTICUT.	
			Cerebrospinal meningitis	1
			Chicken pox	44
			Diphtheria	24
			German measles	6
-			Influenza	2
			Lethargic encephalitis	1
			Measles	110
			Mumps	
W TOOLUTE CORPUTE				
		(19	80)	

Paratyphoid lever	1
Pneumonia (lobar)	15
Poliomyelitis	1
Scarlet fever	73
Smallpox	9
Trinchinosis	1
Tuberculosis (all forms)	42
Typhoid fever	6
Whooping cough	13

DELAWARE.

L

Chicken pox	5
Diphtheria	3
Malaria	2
Measles	17
Mumps	5
Poliomyelitis	1
Scarlet fever	9
Tuberculosis	3
Typhoid fever	1
Whooping cough	1

FLORIDA.

Cerebrospinal meningitis	1
Diphtheria	9
Influenza	14
Lethargic encephalitis	1
Malaria	23
Pneumonia	114
Scarlet fever	7
Typhoid fever	27

GEORGIA.

Chicken pox	19
Dysentery (bacillary)	10
Hookworm disease	10
Influenza	1
Malaria	26
Measles	4
Mumps	2
Paratyphoid fever	4
Pneumonia	2
Scarlet fever	1
Smallpox	5
Tuberculosis (pulmonary)	6
Typhoid fever	6
Whooping cough .	10
	10

ILLINOIS.

Cerebrospinal meningitis-Logan County	1
Diphtheria:	
Cook County	57
Scattering	26
Influenza	2
Lethargic encephalitis-Chicago	1
Measles	607
Pneumonia	172
Scarlet fever:	
Cook County	146
Scattering	58
Smallpox:	
Lake County	12
Madison County	12
Scattering	35
Tuberculosis	223
Typhoid fever	21
Whooping and	133

Chicken pox	31
Diphtheria	26
Influenza	1
Mcasles	124
Pneumonia	3
Scarlet fever	33
Smallpox	65
Tuberculosis	20
Typhoid fever	12
Whooping cough	31
	•••
IOWA.	
Diphtheria	7
Scarlet fever	13
Smallpox	23
KANSAS.	
Cerebrospinal meningitis	3
Chicken pox	-
	52
Diphtheria.	21
German measles	3
Influenza	8
Lethargic encephalitis	2
	173
Mumne	

. ე
52
21
3
8
2
173
118
57
26
38
44
5
65

LOUISIANA.

Lo o Baltina.	
Anthrax	3
Diphtheria	16
Dysentery	2
Hookworm disease	6
Influenza	4
Leprosy	2
Malaria	30
Measles	4
Pneumonia	17
Scarlet fever	3
Smallpox	6
Tuberculosis	29
Typhoid fever	18
	1 0

MAINE.

Chicken pox	- 39
Diphtheria	g
Influenza	3
Measles	
Mumps	
Pneumonia	
Scarlet fever	
Tuberculosis	
Typhoid fever	
Whooping cough	

MARYLAND.1

Cerebrospinal meningitis	2
Chicken pox	60
Diphtheria	29
Dysentery	
German measles	
Malaria	
Measles	
Mumos	95

June 27, 1924

1582

MARYLAND—continued.	Cases.
Ophthalmia neonatorum	1
Pneumonia (all forms)	37
Scarlet fever	56
Septic sore throat	2
Smallpox	3
Tuberculosis	57
Typhoid fever	10
Vincent's angina	
Whooping cough	

MASSACHUSETTS.

Cerebrospinal meningitis	4
Chicken pox	108
Conjunctivitis (suppurative)	25
Diphtheria	
German measles	48
Influenza	1
Lethargic encephalitis	3
Malaria	1
Measles	559
Mumps	158
Ophthalmia neonatorum	29
Pneumonia (lobar)	67
Poliomyelitis	2
Scarlet fever	176
	371
Typhoid fever	14
Whooping cough	37

MICHIGAN.

Diphtheria	68
Measles	
Pneumonia	58
Scarlet fever	192
Smallpox	132
Tuberculosis	277
Typhoid fever	10
Whooping cough	

MINNESOTA.

Chicken pox	87
Diphtheria	
Measles	
Pneumonia.	
Scarlet fever	
Smallpox	
Tuberculosis	
Typhoid fever	
Whooping cough	

MISSISSIPPI.

Cerebrospinal meningitis	1
Diphtheria	
Scarlet fever	
Smallpox	
Typhoid fever	

MISSOURI.

(Exclusive of Cape Girardeau.)

Chicken pox	40
Diphtheria	
Measles	
Mumps	
Pneumonia	
Rabies	
Scarlet fever	
Septic sore throat	

MISSOURI—continued.	Cases
Smallpox	5
Trachoma	10
Tuberculosis	10
Typhoid fever	
Whooping cough.	
MONTANA.	

Diphtheria	10
Rocky Mountain spotted fever:	13
Billings R. F. D.	1
Ekalaka R. F. D	1
Fromberg R. F. D	1
Westmore	2
Scarlet fever	5
Smallpox	95
Typhoid fever	1
	- L

NEBRASKA.

Cerebrospinal meningitis	1
Chicken pox	13
Diphtheria	5
Lethargic encephalitis	1
Measles	10
Mumps	6
Scarlet fever	6
Smallpox	8
Tetanus	ĩ
Whooping cough	6

NEW JERSEY.

Cerebrospinal meningitis	~
Chicken pox1	റാ
Diphtheria	89
Influenza	600 6
Malaria	5
Measles	
Pneumonia	
Scarlet fever1	
Smallpox	
Trachoma	10 9
Typhoid fever1	
Whooping cough16	10

NEW MEXICO.

Chicken pox	1
Diphtheria	2
Measles	19
Mumps	2
Pellagra	
Pneumonia	
Scarlet fever	
Tuberculošis	
Typhoid fever	
	-

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis	
Diphtheria	89
Influenza	
Lethargic encephalitis	3
Measles	
Pneumonia	
Poliomyelitis	5
Scarlet fever	
Smallpox	18
Typhoid fever	14
Whooping cough	268

NORTH CAROLINA.

NORTH CARODIAN.	
	Cases.
Cerebrospinal meningitis	2
Chicken pox	56
Diphtheria	12
German measles	2
Measles	219
Scarlet fever	23
Septic sore throat	3
Smallpox	89
Typhoid fever	20
Whooping cough	321

OREGON.

Chicken pox	12
Diphtheria	12
Mcasles	19
Mumps	1
Pneumonia	14
Scarlet fever: •	
Portland	11
Scattering	17
Smallpox	8
Tuberculosis	7
Typhoid fever	2

SOUTH DAKOTA.

Chicken pox	1
Diphtheria	6
Measles	30
Mumps	
Scarlet fever	5
Whooping cough	1

TEXAS.

Chicken pox	78
Diphtheria	9
Dysentery	8
Influenza	3
Leprosy	3
Measles	37
Mumps	18
Pellagra	3
Pneumonia	4
Scarlet fever	14
Smallpox	29
Trachoma	2
Tuberculosis	46
Typhoid fever	8
Whooping cough	26
	20

VERMONT.

Chicken pox	18
Measles	
Mumps	
Pneumonia	1
¹ Deaths.	

VERMONT-continued.

Cases. VIRGINIA.

Smallpox—Northampton County...... 1 WASHINGTON.

Chicken pox	42
Diphtheria	23
Measles	24
Mumps	13
Pneumonia	1
Scarlet fever	24
Smallpox	24
Tuberculosis	87
Typhoid fever	8
Whooping cough	7
1	

WEST VIRGINIA.

Diphtheria	5
Scarlet fever	20
Typhoid fever	7

WISCONSIN.

wisconsin.
Milwaukee:
Chicken pox 102
Diphtheria
Measles 27
Pneumonia2
Scarlet fever
Tuberculosis 17
Whooping cough
Scattering:
Cerebrospinal meningitis 1
Chicken pox
Diphtheria
German measles
Influenza 8
Lethargic encephalitis 1
Measles 270
Pneumonia
Scarlet fever
Smallpox 30
Tuberculosis
Typhoid fever2
Whooping cough

WYOMING.

Chicken pox	7
Measles	
Mumps	
Pneumonia	1
Scarlet fever	
Whooping cough	

Report for Week Ended June 14, 1924.

DISTRICT OF COLUMBIA.

	Cases.		Cases.
Chicken pox		Smallpox	. 1
Diphtheria Measles		Tuberculosis	. 26
Scarlet fever	30		. 0

SUMMARY OF MONTHLY REPORTS FROM 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.	Cere- bro- spinal menin- gitis.	Diph- theria.	Influ- enza.	Ma- laria.	Mea- sles.	Pella- gra.	Polio- my- elitis.	Scarlet fever.	Small- pox.	Ty- phoid fever.
April, 1924. Ohio May, 1924.	8	431	44	0	3, 415	0	2	1, 329	661	66
Delaware Idaho Louisiana Maryland Missouri New Jersey	4	10 63 114 467 267 331	50 86 10 15 28	13 116 6 1 0 7	42 493 1, 118 2, 487 1, 242 2, 813	55 1 0	2 4 0 0 6	9 384 384 1, 128 543 600	56 17 770 88 2	3 69 32 53 21 22
New Mexico New York North Dakota Pennsylvania Rhode Island South Carolina West Virginia	2 15 1	28 1, 542 13 915 41 140 57	4 137 1 41	1 5 1	593 12, 688 134 39 83 508	0	0 8 5 1 	41 2, 346 126 1, 491 269 4 137	6 33 90 67 47	$ \begin{array}{r} 11 \\ 219 \\ 41 \\ 112 \\ 3 \\ 30 \\ 51 \end{array} $

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.

Diphtheria.—For the week ended June 7, 1924, 35 States reported 1,557 cases of diphtheria. For the week ended June 9, 1923, the same States reported 1,300 cases. Ninety-nine cities situated in all parts of the country and having an aggregate population of about 28,400,000, reported 914 cases of diphtheria for the week ended June 7, 1924. Last year for the corresponding week they reported 788 cases. The estimated expectancy for these cities was 909 cases. The estimated expectancy was based on the experience of the last nine years, excluding epidemics.

Measles.—-Thirty States reported 9,222 cases of measles for the week this year and 20,724 cases for the week last year. Ninetynine cities reported 3,223 cases of measles for the week this year and 6,977 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,750 cases; last year, 2,423 cases. Ninety-nine cities—this year 1,237 cases; last year, 1,107 cases; estimated expectancy, 708 cases.

Smallpox.—Thirty-five States reported 1,292 cases of smallpox for the week ended June 7, 1924. For the corresponding week of last year they reported 474 cases of this disease. Ninety-nine cities reported smallpox for the week as follows: 1924, 467 cases; 1923, 91 cases; estimated expectancy, 172 cases.

The reports for both States and cities indicate an increase in the number of cases of smallpox over the preceding week of 1924.

Thirteen deaths from this disease were registered in the cities during the week.

Typhoid fever.—Two hundred and ninety-seven cases of typhoid fever were reported for the week ended June 7, 1924, by 34 States. For the corresponding week of last year the number was 310 cases. Ninety-nine cities reported 91 cases for the week this year and 80 cases for the week last year. The estimated expectancy was 95 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 99 cities as follows: 1924, 599 deaths; 1923, 587 deaths.

City reports for week ended June 7, 1924.

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the discase under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

	Chick-	Diph	theria.	Influ	enza.	Mea-		Pneu-	Scarle	et fever.	
Division, State, and city.	en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases rc- ported.	Deaths re- ported.	sles, cases re- ported.	Mumps, cases re- ported.	monia, deaths re- ported.	Cases, esti- mated expect- ancy	Cases re- ported.	
NEW ENGLAND.											
Maine:											
Lewiston	0	0	1	0	0	19	0	1	5	0	
Portland New Hampshire:	4	2	4	0	0	4	41	U	1	0	
Concord	0	0	0	0	0	4	0	0	1	0	
Vermont:							0	0	0		
Barre Burlington	04	0	02	0	0	03	Ö	1	0 0	2	
Massachusetts:	-	-	_		Ů		-	-			
Boston	30	50	52	3	0	165	12	15	35	86	
Fall River	15	4 2	3	0	01	7 13	1 6	4 1	2 3	11	
Springfield Worcester	Ð	4	4	- 0	Ō	13	0	2	5 5	9	
Rhode Island:		-	-	v	Ŭ			_	-		
Pawtucket	0	1	3	0	0	1	0	0	1	4	
Providence Connecticut:	0	9	5	0	0	3	0	8	7	29	
Bridgeport	5	5	8	0	0	1	5	3	4	15	
Hartford	6	5	4	Ō	Ó	22	25	1	2	16	
New Haven	4	3	1	. 0	0	9	18	3	2	8	
MIDDLE ATLANTIC.											
New York:			-								
Buffalo	0	13	6	0	0	20	0	9	18	11	
New York	214	291	271	12	3	998	221 23	168	138	227	
Rochester	5 13	8	15	0	0	43 39	23 11	777	8	7 17	
New Jersey:	10	° I	Ű		Ŭ				•		
Camden		3	2	0	0	1		7	2	0	
Newark Trenton	25 2	15 4	75	3	0	165 14	69 0	8	14 2	20 2	
	- •		٥l	01	01	14		1,	2		
100358°—	-24†	3									

		Diph	theria.	Influ	ienza.	Mea-		Pneu-	Scarle	t fever.
Division, State, and city	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	sles, cases re- ported.	Mumps, cases re- ported.	monia, deaths re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.
MIDDLE ATLANTIC										
Pennsylvania: Philadelphia Pittsburgh Reading Scranton	56 5 3	57 19 2 3	70 12 8 1	2 0 0 0	2 0 0 0	168 28 7 4	106 46 2	43 26 0 4	55 16 1 2	80 31 6 1
EAST NORTH CENTRAL.								1		
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	5 75 6 3 5	10 20 2 5	8 8 4 9	0 1 0	0 0 0 1	39 147 3 103	12 170 2 0	9 15 3 3	8 20 3 12	7 8 19 23
Fort Wayne Indianapolis South Bend Terre Haute Hlinois:	 6 9	4 6 1 1	1 4 2 0	0 0 0 0	0 0 0 0	0 54 4 2	 0 0	1 5 2 1	1 12 1 1	1 1 8 0
Chicago Cicero Springfield Michigan:	89 0	109 2 1	57 0 4	3 0 0	2 0 0	304 3 2	135 11 	37 0 0	73 0 1	105 0 0
Detroit Flint Grand Rapids	128 17	57 3 2	35 2	1 0	1 0	· 154 4	86 24	34 0	51 3 7	60 7
Wisconsin: Madison Milwaukee Racine Superior	3 131 11 0	0 11 0 0	2 14 5 2	. 0 0	0 0 0	0 26 0 0	3 35 0 0	0 7 0 3	1 22 3 1	2 14 2 7
WEST NORTH CENTRAL.										
Minnesota: Duluth Minneapolis St. Paul Iowa:	11 79	1 12 12	0 16 17	0 0 0	0 0 0	13 21 6	1 3	3 4 3	2 20 14	18 35 30
Sioux City Waterloo Missouri:	0 5	1 0	0 0	0 0		0 0	0 13		2 4	0 3
Kansas City St. Joseph St. Louis North Dakota:	6 3 36	6 1 36	4 0 36	1 0 0	2 0 0	9 0 65	11 2 45	5 1 	6 1 18	6 0 80
Fargo Grand Forks South Dakota:	0	1 0	0	0	. 0	2	0	0	1 1	0 2
Aberdeen Sioux Falls Nebraska: Lincoln	1	0 1	0 0 2	0 0 0	0 0	13 1 1	Õ	2 4	1	1 1
Omaha Kansas: Topeka	9 8	3	1	ů o	ů o	7 3	0 0	3	7 1	4 4
Wichita	1	i'	2	ŏ	ŏ	3	4	Ō	2	1
Delaware: Wilmington	1	1	2	0	0	0	2	0	4	5
Maryland: Baltimore Cumberland	59	14 0	21 0	6 0	0	159 0	24	24 0	17 1	$35 \\ 2 \\ 11$
Frederick District of Colum- bia:	0	0	0	0	0	0	0	0	0	11 23
Washington	0	81	7	2	2	22		5	10	. 40

City reports for week ended June 7, 1924-Continued.

	Ohish	Diph	theria.	Influ	ienza.	Mea-		Pneu-	Scarle	t fever
Division, State, and city	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	sles, cases re- ported.	Mumps, cases re- ported.		Cases, esti- mated expect- ancy	Cases re- ported. 0 0 0 1 2 0 0 0 9 9 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 0 1 2 0 0 0 0
SOUTH ATLANTIC-										
Virginia: Lynchburg Norfolk Richmond Roanoke	1 1 6 2	0 0 1 1	0 0 1 1	0 0 0 0	0 0 0 1	0 4 75 7	7 2 1 4	0 0 4 3	0 1 1 0	01
West Virginia: Charleston Huntington Wheeling	1 1 5	0 0 1	0 0 1	0 0 0	0 0 0	26 0 10	1 0 0	2 2 2	01	0
North Carolina: Raleigh Wilmington Winston-Salem	22 1 7	000000000000000000000000000000000000000	0 0 1	0 0 0	0 0 0	5 5 2	0 3 4	1 1 4	1 0 1	0
South Carolina: Charleston Columbia Greenville	0 6 0	0 0 0	0 1 0	0 0 0	0 0 0	0 0 0	1 14 0	2 2 2	0 1 0	0
Georgia: Atlanta Brunswick Savannah	0 0 3	1 0 0	6 0 0	1 0 0	0 0 0	0 0 2	1 1 0	10 0 4	4 0 0	0
Florida: St. Petersburg. Tampa EAST SOUTH CEN-	0	·····1	0	0	0	0	0	0	0	Ő
TRAL. Kentucky: Covington	0	1	0	0	0	3	0	3	1	0
Lexington Louisville Tennessee: Memphis Nerbrille	2 3 1 1	0 3 2	0 2 3	- 0 0 0	0 1 1	5 6 6 3	0 6 1 0	0 1 8 1	0 1 3 2	5 4
Nashville Alabama: Birmingham Mobile	1 0 0	0 1 0 0	0 1 2 0	1 0 0	0 0 0 0	3 10 8 0	0	1 5 0 0	2 1 0 1	0 0
Montgomery WEST SOUTH CEN- TRAL.	U	Ū		v	Ű	Ű		Ŭ		v
Arkansas: Fort Smith Little Rock Louisiana:	3 3	1 0	0 0	0 0		1 4	2 0	·····i	1 1	
New Orleans Shreveport Oklahoma: Oklahoma	0 0 0	5 1	10 0 0	2 0 0	1 0 0	6 0 0	0	2 1 2	1 1	0
Tulsa Texas: Dallas	1 12	0 2	0 2	0 0	0	4	0 - 4	0	0 1	5
Galveston Houston San Antonio MOUNTAIN.	0 1	1 0 1	0 4 2	0 0	0 0 1	0 0 1	0	1 1 12	0 1 0	0 2 2
Montana: Billings Great Falls Helena Missoula Idaho:	8 1 0 6	1 1 0	0 7 0 0	0 0 0 0	0 0 0 0	2 0 0 0	0 0 0 0	1 0 2 1	1 1 1	Ŭ 0 0 0
Boise Colorado:	1	0	0	0	0	1	0	0	1	0
Den ver Pueblo New Mexico:	24 1	8 1	21 6	0	0	36 2	8 2	9 0	7 1	13 3
Albuquerque Utah: Salt Lake City.	0 24	2 2	1 3	0	0	0 9	1 10	2	(2	0 1
Nevada: Reno	0	0	0	0	0	0	o	0	o	0

City reports for week ended June 7, 1924-Continued.

		Di	phtheria.	Infi	uenza.		м	ea-		Pne		Sca	urlet	t fever.
Division, State, and city	Chick- en pox, cases re- ported.	Case esti mate expectancy	- Cases ed ro- et- ported.	Cases re- ported.	Dea re- porte	.	sl ca	es, ses e-	Mumps cases re- ported.		iia, ths -	s Cases, esti-		Cases re- ported.
PACIFIC. Washington: Seattle Spokane Tacoma California:	36 13 15		$ \begin{array}{ccc} 3 & 5 \\ 2 & 2 \\ 1 & 6 \end{array} $	0 0 0				4 6 2	8 0 8				9 4 2	8 6 7
Los Angeles Sacramento San Francisco	58 4 32		14 57 2 12 8 30	6 0 3		1 0 2		172 18 9	8 1 17		12 2 7		10 1 12	28 1 27
				s	mallpo	x.		deaths	Typ	hoid f	cver	·	cases	
Division, State, and city.		•	Popula- tion, July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Doothe sonoutod	national surveyor	Tuberculosis, do reported.	Cases, estimated expectancy.	Cases reported.	Deaths renorted		w nooping cougn	Deaths, all causes.
NEW ENGLA Maine: Lewiston Portland			33, 790 73, 129	0	0.		0	02		0		0	37	12 15
New Hampshire: Concord			22, 408	0	0		0	1		Ő		0	, 0	
Vermont: Barre			¹ 10, 008	0	0		0	1	0	. 0		0	0	5
Burlington Massachusetts:			23, 613	0	0		0	0		0		0	1	9
Boston Fall River Springfield Worcester Rhode Island:			770, 400 120, 912 144, 227 191, 927	0 0 0 0	0 0 0 0		0.00	15 . 1 . 1 . 1	1	2 0 0 1		0 0 0 0 	7 14 3	203 38 30 42
Pawtucket Providence			68, 799 242, 378	0	0 0		00	1 3	0	0		0	0 0	10 68
Connecticut: Bridgeport Hartford New Haven			¹ 143, 555 ¹ 138, 036 172, 967	0 0 0	0 0 0		0 0 0	2 2 2	0 0 1	0 0 0		000000000000000000000000000000000000000	0 0 0	40 40 27
MIDDLE ATLA	NTIC.													
Vew York: Buffalo New York Rochester Syracuse			536, 718 5, 927, 625 317, 867 184, 511	0 0 0 0	0 0 0 0			15 2 128 0 1	1 12 0 1	0 25 0 0			22 205 0 1	133 1,432 53 50
Vew Jersey: Camden Newark Trenton Pennsylvania:			124, 157 438, 699 127, 390	0 0 0	0 0 0		000000000000000000000000000000000000000	2 7 2	1 1 1	0 0 0		0	43 4	39 98 31
Philadelphia Pittsburgh Reading Scranton			1, 922, 788 613, 442 110, 917 140, 636	0 0 0 0	1 5 2 0		0 1 0 0	37 10 0 2	8 2 0 0	3 1 1 0	i	0 1 0	18 15 1	462 176 25
EAST NORTH CER	NTRAL.													
hio: Cincinnati Cleveland Columbus Toledo			406, 312 888, 519 261, 082 268, 338	1 2 1 2	15 3 6 14		0 1 0 0	11 12 1 6	1 2 0 1	3 0. 0 0			16 89 7 7	114 172 60 67
ndiana: Fort Wayne Indianapolis South Bend			93, 573 342, 718 76, 709	3 10 0	$2 \\ 36 \\ 1$		0	0 4 1	0 1 0	0 2 0		8	 0	18 82 16

City reports for week ended June 7, 1924-Continued.

¹ Population Jan. 1, 1920.

City reports for week ended June 7, 1924-Continued.

		6	Smallp	ox.	deaths	Ту	phoid f	ever.	cases	
Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculcsis, de reported.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough c	Deaths, all causes.
EAST NOBTH CENTRAL-Contd.										
Illinois: Chicago Cicero Springfield Michigan:	2, 886, 121 55, 968 61, 833	2 0 1	4 0 0	0 0 0	45 0 1	3 0 0	5 0 0	0 0 0	61 1	608 3 15
Detroit Flint Grand Rapids	995, 668 117, 968 145, 947	10 0 0	4	10 0	23 2	4 1 1	1 0	0	24 8	249
Wisconsin: Madison Milwaukee Racine Superior west NORTH CENTRAL.	42, 519 484, 595 64, 393 1 39, 671	1 5 0 2	0 2 2 8	0 0 0 0	0 8 0 0	0 1 0 0	0 0 0 0	0 0 0 0	11 35 0 2	7 110 12 8
Minnesota: Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	3 25 5	3 7 19	1 0 0	0 4 2	0 1 0	. 3 0 0	0 1 0	1 2	25 102 49
lowa: Sioux City Waterloo Missouri:	79, 662 39, 667	2 0	0			0 0	0 0		0 3	
Kansas City St. Joseph St. Louis North Dakota;	351, 819 78, 232 803, 853	5 9 5	0 0 2	0 0 0	8 1 9	1 1 2	1 0 3	0 0 0	12 0 38	79 27 214
Grand Forks	24, 841 14, 547	0 0	0	····ō	0	0 0	0	0	0	
Aberdeen Sioux Falls Nebraska:	15, 829 29, 206	0	0	0	0	····ō	<u>0</u>	····ō	0	5
Lincoln Omaha Cansas:	58, 761 204, 382	2 9	0 2	. 0	1 6	1 0	0 0	0 0	<u>0</u>	23 41
Topeka Wichita	52, 555 79, 261	2 6	0 7	0 0	0 0	0 0	1 0	1 0	3 0	6 23
SOUTH ATLANTIC.										•
Delaware: Wilmington Maryland:	117, 728	0	0	0	0	1	1	0	2	23
Baltimore. Cumberland Frederick	773, 580 32, 361 11, 301	0 0 0	2 0 0	0 0 0	20 0 0	4 1 0	0 0 0	0 0 0	18 0	203 11 2
District of Columbia: Washington Virginia:	¹ 437, 571	1	3	0	4	2	0	0	3	89
Lynchburg Norfolk Richmond Roanoke	30, 277 159, 089 181, 044 55, 502	0 0 0 2	0 0 0	0 0 0 0	0 0 2 1	0 1 1 0	0 0 0 0	0 0 0 0	1 0 7 4	9 62 21
Vest Virginia: Charleston Huntington Wheeling	45, 597 57, 918 1 56, 208	0 0 0	0 0 0	0 0 0	2 4 3	1 0 1	0 0 1	0 0 0	1 0 0	18 19 24
North Carolina: Raleigh Wilmington Winston-Salem South Carolina:	29, 171 35, 719 56, 230	1 0 1	4 0 0	0 0 0	2 0 2	0 1 1	0 0 0	0 0 0	1 5	8 6 25
Columbia Greenville Georgia:	71, 245 39, 688 25, 789	0 0 0	0 1 0	0 0 0	2 0 2	1 1 1	0 8 1	0 1 0	1 1 1	20 21 16
Atlanta Brunswick Savannah Ylorida:	222, 963 15, 937 89, 448	6 0 0	$\cdot \begin{array}{c} 28 \\ 1 \\ 0 \end{array}$	0 0 0	6 0 3	1 1 3	0 0 0	0 0 0	2 0 0	63 3 38
St. Petersburg Tampa ¹ Population Jan. 1, 1920.	24, 403 56, 050	0	0	0	2	1	1	i	<u>0</u>	15

City reports j	or week e	ended	Jun	e 7, 1	924-	-Con	tinue	d.		
· · · · ·		1	Smallp	юx.	deaths	Ту	phoid i	lever.	cases	Γ.
Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculosis, do reported.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough roported.	Deaths, all causes.
EAST SOUTH CENTRAL.										
Kentucky: Covington Lexingt n Louisville Tennessee:	57, 877 43, 673 257, 671	0 0 1	0001	Ō	1	0 0 2	0 0 4	0 0 1	0 0 1	21 14 73
Memphis Nashville	170, 067 121, 128	1	16	0		03	2 0	2 0	01	56 39
Alabama: Birmingham Mobile Montgomery	195, 901 63, 858 45, 383	2 1 0	89 1 9	00000		3 1 0	0 0 1	1 1 0	0	48 26 8
WEST SOUTH CENTRAL.										
Arkansas: Fort Smith Little Rock. Louisis.ca:	30, 635 70, 916	0 1	0	0	5	0 0	0 4	<u>1</u>	1 0	
New Orleans Shreveport Oklahoma:	404, 575 54, 590	5 	00	0	14 0	4 	4 0	2 1	0	122 20
Oklahoma. Tulsa. Texas:	101, 150 102, 018	4 3	1 5	0	1	0 2	0 0	0 	1 0	18
Dallas Galveston Houston San Antonio	177, 274 46, 877 154, 970 184, 727	2 0 1 0	2 0 3 0	0 0 0 0	2 0 2 13	1 2 1 1	0 0 3 2	0 0 0 1	10 0 0	40 13 50 74
MOUNTAIN.					l ·					
Mentana: Billings Great Falls Helena. Missoula.	16, 927 27, 787 1 12, 037 1 12, 668	1 3 1	0 1 0 1	0 0 0 0	0 1 1 1	0 0 0	0 0 0 0	0 0 1 0	0 1 0 0	11 7 9 9
Idaho: Boise Colorado:	22, 806	1	0	0	0	0	0	0	0	1
Denver Pueblo New Mexico:	272, 031 43, 519	10 0	0 0	0 0	14 1	00	00	0 0	28 0	69 10
AlbuquerqueUtah:	16, 648	0	0	0	4	0	0	0	0	9
Salt Lake City Nevada: Reno	126, 241 12, 429	6 0	0	0	1	1	0	0	8	26 2
PACIFIC.	,•	-	Ĵ			-	-	Ĩ	Ĩ	-
Washington: Seattle Spokane Tacoma California:	¹ 315, 685 104, 573 101, 731	5 5 4	1 12 3			1 0 1	2 0 0		3 1 0	

0 0 0

666, 853 69, 950 539, 038

2 0 1

80 0 1

26 1 13

2 0 2 4 2 0 0 0 0 4 0 2 255 30 154

City reports for week ended June 7 1091. Continued

1 Population Jan. 1, 1920.

California: Los Angeles..... Sacramento..... San Francisco.....

City reports for week ended June 7, 1924-Continued.

	spi	bro- nal ngitis.		na rg ic halitis.	Pell	lagra.		omyeli le para		Tyj fev	o hus ver.
Division. State, and city.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, estimated expectancy.	Cases.	Deaths.	Cases.	Deaths.
NEW ENGLAND.											
Vermont: Barre Boston Fall River Connecticut: Bridgeport MIDDLE ATLANTIC.	0 1 1 0	0 1 1 0	0 1 0 1	0 0 1	0 0 0	0 0 0	0 0 0	1 0 1 0	1 0 1 0	0 0 0	0 0 0 0
New York: New York Rochester Syracuse. New Jersey: Newark	5 0 0 2	9 0 0	7 1 0 0	5 0 0 0	0 0 0 0	0 0 0	1 0 0	1 0 2 0	3 0 0	0 0 0 0	0 0 0 0
EAST NORTH CENTRAL. Ohio: Toledo Illinois: Chicago west North Central.	0	0 0	0 2	1 0	0 0	0	0 0	0 0	0 0	0 0	0 0
Minnesota: Minneapolis St. Paul Missouri: St. Louis	1 0 2	1 0 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 0	0 0 0	0 0 0	0 0 0
SOUTH ATLANTIC. Maryland: Baltimore	1 0 0	0 2 1 0	0 0 0 0	2 0 0	0 0 1 0	0 0 0 1	1 0 0	1 0 0 0	0 0 0	0 0 0 0	0 0 0 0
Columbia EAST SOUTH CENTRAL. Alabama: Birmingham Mobile	0 0 0	0 0 0	0 0 0	0 0 0	0 3 0	1 0 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
WEST SOUTH CENTRAL. Arkansas: Little Rock MOUNTAIN.	o	0	0	0	0	1	0	0	0	0	0
Colorado: Denver	0	0	0	0	0	0	0	0	1.	0	0
PACIFIC: California: Los Angeles. Sacramento San Francisco	2 0 1	1 0 0	3 0 0	0 1 0	0 0 0	0 0 0	0 0 0	P 0 0 0	0 0 0	1 0 0	0 0 0

The following table gives a summary of the reports from 105 cities for the ten-week period ended June 7, 1924. The cities included in this table are those whose reports have been published for all ten weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923, which is the latest date for which estimates are available. The cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			DIPI	THE	AIA UP	ISES.					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					1	924, wee	ek ende	d—			
New England. 105 102 90 111 97 63 384 374 400 344 385 357 340 971 Bast North Central. 219 210 211 156 173 157 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 571 168 161 18 18 160 172 122 121 121 121 121 121 121 121 121 121 121 121 123 131 99 138 124 134 Muchale 127 128 166 572 520 703 359 271 310 1227 1310 <th></th> <th>June 7.</th>											June 7.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Total	1, 039	1,006	1,009	988	910	892	930	927	869	92
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	New England	105	102	99	111	97	83	78	94	85	90
West North Central. 74 60 70 68 64 10 106 80 East South Central. 17 8 14 13 6 8 31 42 32 43 Mest South Central. 23 24 31 33 18 28 16 18 18 Mountain. 30 40 52 31 35 29 18 30 14 Pacific 127 126 116 123 131 99 138 124 134 Pacific 374 401 353 354 379 339 271 310 227 New England. 374 401 353 354 379 339 271 130 227 Bast North Central 806 838 655 829 703 888 1,871 1,231 South Atlantic 572 626 487 518 485 457 455 466 444 South Atlantic 126 156 159 173	Middle Atlantic	. 383	384	374	400			357		371	38
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	East North Central	. 219									2 151 2
East South Central 17 8 14 13 6 8 3 8 4 West South Central 30 40 52 31 33 18 26 16 18 18 Mountain 30 40 52 31 35 29 18 30 14 Pacific 127 126 116 123 131 99 138 124 134 Midale Atlantic 6,070 6,237 5,147 5,203 4,730 4,422 4,019 3,716 2,943 2 New England 374 401 335 354 379 339 271 310 227 West North Central 569 415 350 257 744 197 128 124 126 South Atlantic 572 626 487 518 485 457 465 468 344 Pacific 470 580 400 477 133 28 360 230 198 138 Pacific	West North Central										3 70
West South Central. 23 24 31 33 18 26 16 18 18 Mountain. 30 40 52 31 33 18 26 16 18 18 Pacific 127 126 116 123 131 99 138 124 134 MEASLES CASES. Total 6,070 6,237 5,147 5,203 4,730 4,422 4,019 3,716 2,943 1 Middle Atlantic 2,394 2,647 2,347 2,184 2,310 1,889 1,868 1,571 1,231 128 124 124 124 124 124 124 124 134 Suth Atlantic 2,394 2,647 2,347 2,184 2,310 1,889 1,868 1,571 1,231 1 South Atlantic 569 415 350 173 98 73 56 56 47 West South Central 354 323 188 127 104 71 51 <td< td=""><td>South Atlantic</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>• 4</td></td<>	South Atlantic										• 4
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	West South Central	11									
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Mountain	30									37
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Pacific										112
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	••••••••••••••••••••••••••••••••••••••	1	MĖ	ASLES	S CASE	ES.	1		1	1	
New England 374 401 353 354 379 339 271 310 227 Middle Atlantic 2,394 2,647 2,184 2,310 1,889 1,868 1,571 1,221 East North Central 569 415 359 350 257 274 197 128 1733 South Atlantic 572 626 487 518 485 457 465 468 444 East South Central 354 323 188 127 104 71 51 33 28 Mountain 405 241 179 193 113 97 100 79 70 Pacific 470 590 400 475 281 360 230 198 139 South Atlantic 17,737 1,796 1,658 1,532 1,605 1,549 1,503 1,311 1,213 1 New England 312 326 223	Total	6 070	1	1		1	4 422	4 019	3 716	2 043	3, 237
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				[· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Middle Atlantic	9 304									247 1.483
West North Central. 569 415 359 350 257 274 197 128 124 South Atlantic. 572 626 487 518 485 457 465 468 '444 East South Central. 354 323 188 127 104 71 51 33 28 Mountain. 405 241 179 193 113 97 100 79 70 Pacific 470 590 400 475 281 360 230 198 139 SCARLET FEVER CASES. Total 1,737 1,796 1,658 1,532 1,605 1,549 1,503 1,311 1,213 1 New England 312 326 253 271 242 210 213 165 168 168 168 168 168 168 184 2406 380 East North Central 346 345 334 284 325 318 335 279 125 300 16	East North Central				829			781			2 744
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	West North Central										3 130
East South Central. 126 156 159 173 98 73 56 56 47 West South Central. 354 323 188 127 104 71 51 33 28 Mountain. 405 241 179 193 113 97 100 79 70 Pacific 470 590 400 475 281 360 230 198 139 SCARLET FEVER CASES. Total 1,737 1,796 1,658 1,532 1,605 1,549 1,503 1,311 1,213 1 New England 312 326 253 271 242 210 213 165 168 Middle Atlantic 517 498 474 467 473 470 452 406 380 East North Central 345 334 284 225 318 336 279 2269 West North Central 11 18 168 171 159 118 144 11	South Atlantic										4 317
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	East South Central	126	156	159	173	98	73	56	56	47	36
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	West South Central									28	19
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Mountain										50
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Pacine	470	590	400	475	281	360	230	198	139	211
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		i	SCARI	ET FI	EVER	CASES	•				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Total	1, 737	1, 796	1, 658	1, 532	1, 605	1, 549	1, 503	1, 311	1, 213	1, 247
346 345 334 284 325 318 336 279 1259 West North Central. 184 230 222 195 197 219 223 182 167 South Atlantic. 200 218 189 168 171 159 118 134 4 112 Fast South Central. 11 18 16 12 16 19 9 9 8 West South Central. 15 26 27 18 231 14 14 11 Mountain. 16 20 19 23 27 37 25 30 17 Pacific 136 115 124 94 131 102 113 92 91 SMALLPOX CASES. Total 544 536 467 568 543 460 529 408 331 New England 0 1 1 0 0 0 0 0 0 0 0 0	New England	312	326	253	271	242	210	213	165	168	181
East North Central 346 346 324 284 285 318 336 279 1 259 South Central 184 232 295 197 219 233 182 167 South Atlantic 200 218 189 166 171 159 131 134 4 112 Fast South Central 11 18 167 Subscience 200 218 189 166 171 15 14 14 14 14 167 Mest South Central 15 22 27 18 23 27 37 25 300 17 Mathematic 166 <th< td=""><td>Middle Atlantic</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>401</td></th<>	Middle Atlantic										401
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	East North Central										2 246
East South Central	West North Central										³ 182
West South Central											4 121
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	West South Central										11 11
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $											17
$\begin{array}{c c c c c c c c c c c c c c c c c c c $											77
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			SMA	LLPO	X CAS	ES.				·	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Total	544	536	467	568	543	460	529	408	331	469
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	New England		1	1	0				0		0
East North Central 153 141 164 193 186 165 213 181 149 West North Central 52 61 41 62 53 33 39 26 19 South Atlantic 116 98 93 98 70 95 51 54 429 East South Central 49 45 26 55 49 20 54 33 36 West South Central 10 4 5 2 4 1 7 6 7 Mountain 8 4 10 6 5 6 6 3 7	Middle Atlantic										8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	East North Central										2 171
East South Central	West North Central										3 40
West South Central 10 4 5 2 4 1 7 6 7 Mountain 8 4 10 6 5 6 6 3 7	South Atlantic										4 39
Mountain	East South Central										107
											5 2
											97
		100	101		102		110	101	104	~	51

Summary of weekly reports from cities, March 30 to June 7, 1924. DIPHTHERIA CASES.

Figures for Columbus, Ohio, estimated.
 Figures for Flint, Mich., estimated.
 Figures for Fargo, N. Dak., estimated.
 Figures for St. Fetersburg, Fla., estimated.

Report not received at time of going to press.

Summary of weekly reports from cities, March 30 to June 7, 1924-Continued. TYPHOID FEVER CASES.

				19:	24, week	c ended				
	Apr. 5.	Apr. 12.	Apr. 19.	Apr. 26.	May 3.	May 10.	May 17.	May 24.	May 31.	June 7.
Total New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	51 1 9 7 7 9 1 9 2 6	52 4 21 7 2 10 1 2 1 4	55 4 17 7 6 4 4 4 4 5	58 7 11 10 1 8 8 6 0 7	49 4 10 11 3 11 3 1 1 3 3	68 9 25 9 2 11 3 3 3 3 3	73 2 32 12 3 8 7 3 0 6	78 6 24 7 8 18 6 5 2 2	78 9 18 16 5 413 11 10 1 5	92 3 30 211 38 412 7 13 0 8

INFLUENZA DEATHS.

Total	97	95	80	72	51	60	49	40	30	21
New England Middle Atlantic East North Central South Atlantic East South Central West South Central Mountain Pacific	6 44 20 2 3 13 6 1 2	3 35 25 8 7 6 3 2 6	3 31 14 4 6 11 4 4 3	3 30 12 4 10 8 3 2 0	2 21 7 3 5 3 4 0 6	2 32 10 3 7 4 0 1 1	1 25 5 4 5 4 3 1 1	2 10 11 3 6 3 1 1 3	1 10 110 1 45 1 1 0 1	1 5 2 3 3 2 4 3 2 4 3 2 2 0 3

PNEUMONIA DEATHS.

Total	1, 251	1, 222	1, 101	959	935	782	743	644	630	591
New England Middle Atlantic East North Central South Atlantic. East South Central West South Central Mountain	75 500 286 71 125 61 67 39 27	71 494 258 74 158 53 43 32 39	61 474 232 64 118 57 43 25 27	63 430 170 49 114 42 35 26 30	69 392 199 53 97 44 24 27 30	55 332 150 42 93 29 25 24 32	52 343 139 41 86 22 27 13 20	35 285 136 38 64 32 27 11 15	34 267 1 131 40 460 40 14 18 26	37 276 2118 323 466 18 18 18 18 14 21

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923.

Group of cities.	Number of cities reporting cases.	Number of cities reporting deaths.	Aggregate population of cities report- ing cases.	Aggregate population of cities report- ing deaths.
Total	105	97	28, 898, 350	28, 140, 934
New England	12	12	2, 098, 746	2, 098, 746
Middle Atlantic	10	10	10, 304, 114	10, 304, 114
East North Central	17	17	7, 032, 535	7,032,535
West North Central	14	11	2, 515, 330	2, 381, 454
South Atlantic	22	22	2, 566, 901	2, 566, 901
East South Central	7	7	911, 885	911, 885
West South Central	8	6	1, 124, 564	1, 023, 013
Mountain	9	9	546, 445	546, 445
Pacific	6	3	1, 797, 830	1, 275, 841

Figures for Columbus, Ohio, estimated. Report not received at time of going to press.
 Figures for Flint, Mich., estimated.
 Figures for Fargo, N. Dak., estimated.
 Figures for St. Petersburg, Fla., estimated.

FOREIGN AND INSULAR.

CUBA.

Communicable Diseases-Habana.

Communicable diseases were notified at Habana during the period June 1–10, 1924, as follows:

	June 1-	10, 1924.	Remain- ing under
Disease.	New cases.	Deaths.	treatment June 10, 1924.
Diphtheria_ Leprosy	6 8 4 1 4	1	3 15 125 4 1 28

¹ From the interior, 11. ³ From the interior, 15.

JAVA.

Epidemic Smallpox-Pasoerean Residency.

Under date of April 9, 1924, epidemic smallpox was declared present at Kaliboto, a locality in the Pasoerean Residency, Island of Java.

MALAY STATES.

Health Conditions-Kedah.

The following information, received under date of April 24, 1924, by way of Penang, Straits Settlements, was taken from the annual report of the State of Kedah for the period August 23, 1922, to August 13, 1923:

The population of Kedah was estimated in the year 1923 at 341,596. The birth rate was given as 27.73 and the death rate as 23.41. Continued improvement in infantile mortality was noted, the rate being 161.73 per thousand births as against 165.35 in the previous The actual number of deaths reported was 7,834, of which vear. 3,269 were attributed to fever, but the returns were stated not to be entirely reliable. The only accurate figures were stated to be those received from hospitals.

Hospital Care.

Eight Government hospitals were reported to be maintained, with 13,020 patients treated. The principal diseases reported were malaria, venereal diseases, ankylostomiasis, dysentery, pulmonary tuberculosis, and pneumonia. In addition to the outdoor department maintained by the hospitals there were stated to be seven Government outdoor dispensaries in the State, with 15,533 cases under treatment, of which 6,670 were Malays.

PARAGUAY.

Quarantine Station—Encarnacion.

According to information dated May 1, 1924, a quarantine station has been established at Encarnacion, Paraguay, in consequence of epidemic outbreaks in the district of Corrientes. The station is intended chiefly to protect the country from infections brought in by train passengers. The international express from Buenos Aires crosses the Parana River at Posadas and leaves for Asuncion from Encarnacion.

POLAND.

Communicable Diseases-March 2-29, 1924.

During the period March 2 to 29, 1924, communicable diseases were notified in Poland as follows:

Disease.	Cases.	Deaths.	Districts showing greatest number of deaths.
Cerebrospinal meningitis Diphtheria	8 85	5 14	Lodz. Warsaw.
Measles	345 252	2 29	Wilno. Tarnopol.
Scarlet fever Smallpox	202	29	Posen.
Tuberculosis	158	271	Warsaw.
Typhoid fever	151	17	Lublin.
Typhus fever	263	23	Lwow.
Typhus fever, recurrent	18		De
Whooping cough	60	10	Do.
March 9–15, 1924.			
Cerebrospinal meningitis	8	6	Silesia.
Diphtheria	86	12	Lodz.
Measles	197	5	Lwow.
Scarlet fever	239	32	Lodz.
Smallpox	197	5	Lwow.
Typhoid fever	169	15	Lodz.
Typhus fever	333	23	Wilno.
	12		
Typhus fever, recurrent Whooping cough	13 50	1	Warsaw.
Typhus fever, recurrent	50	 -	Warsaw.
Typhus fever, recurrent. Whooping cough	12		Lodz.
Typhus fever, recurrent. Whooping cough	50 12 93	3 14	Lodz. Warsaw.
Typhus fever, recurrent. Whooping cough	50 12 93 238	3 14 3	Lodz. Warsaw. Do.
Typhus fever, recurrent. Whooping cough March 16-22, 1924. Cerebrospinal meningitis. Diphtheria. Measles Scarlet fever.	50 12 93 238 261	3 14 3 25	Lodz. Warsaw. Do. Lwow.
Typhus fever, recurrent Whooping cough 	50 12 93 238 261 57	3 14 3 25 9	Lodz. Warsaw. Do. Lwow. Krakow.
Typhus fever, recurrent. Whooping cough	50 12 93 238 261 57 156	3 14 3 25 9 11	Lodz. Warsaw. Do. Lwow. Krakow. Lodz.
Typhus fever, recurrent Whooping cough March 16-22, 1924. Cerebrospinal meningitis Diphtheria Measles Scarlet fever Smallpox Typhoid fever. Typhoid fever.	50 12 93 238 261 57 156 454	3 14 3 25 9 11 34	Lodz. Warsaw. Do. Lwow. Krakow. Lodz. Tarnopol.
Typhus fever, recurrent	50 12 93 238 261 57 156	3 14 3 25 9 11	Lodz. Warsaw. Do. Lwow. Krakow. Lodz.
Typhus fever, recurrent Whooping cough	50 12 93 238 261 57 156 454 8	3 14 3 25 9 11 34 1	Lodz. Do. Lwow. Krakow. Lodz. Tarnopol. Lwow.
Typhus fever, recurrent Whooping cough	50 12 93 261 57 156 454 8 53	3 14 3 25 9 11 34 1 12	Lodz. Warsaw. Do. Lwow. Krakow. Iodz. Tarnopol. Lwow. Stanislawow.
Typhus fever, recurrent Whooping cough	50 12 93 238 261 57 156 454 8 53	3 14 3 25 9 11 34 1 1 12	Lodz. Warsaw. Do. Lwow. Krakow. Lodz. Tarnopol. Lwow. Stanisławow. Silesia.
Typhus fever, recurrent Whooping cough	50 12 93 261 156 454 8 53 12 76	3 14 3 25 9 11 13 4 1 12 6 14	Lodz. Warsaw. Do. Lwow. Krakow. I.odz. Tarnopol. Lawo. Stanislawow. Silesia. Lwow.
Typhus fever, recurrent Whooping cough	50 12 93 261 57 156 454 454 8 53 12 76 76 149	3 14 3 25 9 11 34 1 1 12	Lodz. Warsaw. Do. Lwow. Krakow. Lodz. Tarnopol. Lwow. Stanisławow. Silesia.
Typhus fever, recurrent March 16-22, 1924. Cerebrospinal meningitis Diphtheria Scarlet fever Typhus fever Typhus fever Typhus fever. Typhus fever. Typhus fever. March 23-29, 1924. Cerebrospinal meningitis Diphtheria March 23-29, 1924.	50 12 93 261 156 454 8 53 12 76	3 14 3 25 9 11 34 1 12 6 6 14 3	Lodz. Warsaw. Do. Lwow. Krakow. Iodz. Tarnopol. Lwow. Stanislawow. Silesia. Lwow. Do.
Typhus fever, recurrent March 16-22, 1924. Cerebrospinal meningitis Diphtheria Measles Scarlet fever Typhoid fever Typhoid fever Typhois fever, recurrent. Whooping cough March 23-29, 1924. Cerebrospinal meningitis Diphtheria March 23-29, 1924. Cerebrospinal meningitis Scarlet fever Scarlet fever Smallpox	50 12 93 205 205 156 454 8 53 53 12 76 76 149 225	3 3 4 3 25 9 11 34 1 12 6 14 3 3 3 24 5 12	Lodz. Warsaw. Do. Lwow. Krakow. Lodz. Tarnopol. Lwow. Stanisławow. Silesia. Lwow. Do. Do. Krakow. Lodz.
Typhus fever, recurrent March 16-22, 1924. Cerebrospinal meningitis Diphtheria Measles Scarlet fever Typhoid fever Typhus fever, rocurrent Whooping cough March 23-29, 1924. Cerebrospinal meningitis Diphtheria March 23-29, 1924. Cerebrospinal meningitis Diphtheria March 23-29, 1924. Scarlet fever Smallpox Typhoid fever Smallpot Typhold fever	50 12 93 261 57 156 454 8 53 12 76 149 225 49	3 34 325 9 11 34 1 12 6 6 14 3 24 5	Lodz. Warsaw. Do. Lwow. Krakow. Iodz. Tarnopol. Lwow. Stanisławow. Silesia. Lwow. Do. Krakow.
Typhus fever, recurrent. Whooping cough	50 12 93 288 261 57 156 454 454 8 53 12 76 149 235 49 155	3 3 4 3 25 9 11 34 1 12 6 14 3 3 3 24 5 12	Lodz. Warsaw. Do. Lwow. Krakow. Lodz. Tarnopol. Lwow. Stanisławow. Silesia. Lwow. Do. Do. Krakow. Lodz.

March 2-8, 1924.

Population, census, September 30, 1924-27,160,163.

Dysentery-Rabies.

During the same period 95 cases of dysentery with 6 deaths were reported in Poland. During the week ended March 29, 1924, 2 deaths from rabies were reported.

RUSSIA.

Plague—Southeastern Provinces.

Information dated April 23, 1924, shows the occurrence of an outbreak of plague in the Amu-Daria district, Province of Turkestan, Asiatic Russia, with about 230 reported cases. The district is bounded by a navigable river of the same name. Quarantine stations are stated to have been established along the Amu-Daria River from Kresnovodsk to Tashkent to guard against spread of infection by railways and waterways. Medical aid was dispatched to the infected region by airplane from the bacteriological institute recently established at Saratov. On May 10 plague was reported at Bokhara and Khiva. Previous reports had shown that the plague center was at Akkomysh, where, to April 17, when the medical personnel arrived, 57 cases had been notified, with five deaths. Measures were stated to be in force to prevent spread along the line of the Tashkent railway, and two expeditions were organized for the control of the main caravan routes connecting Turt-kul with the other districts of the Turkestan Republic. An additional credit of 50,000 rubles has been granted the commissariat of health with which to fight the disease.

Information dated April 25, 1924, in regard to plague conditions in southeast Russia shows that the epidemic which prevailed in that region during the winter and spring months of the current year developed 85 plague centers with extension of infection over four Provinces, viz, Astrakhan, Bukeyevsk (Bukeeve), Kalmuk, and Ural, the occurrence being mainly in small villages. The total number of reported cases was 473 with 434 deaths. The first case in the Province of Astrakhan was reported January 13, and on January 28 the epidemic was reported to have terminated. Plague was stated to be of annual occurrence in the steppes of the Kirghiz and Kalmuk Provinces, its source being the infection in the wild mice of the steppes and in the Siberian marmot. During recent years there has been noted a movement of the prevalence of the infection in a westerly direction, which represents a menace to the Volga district of Russia.

Measures to Prevent Spread.

The lack of medical stations and communication facilities, the great distances involved, and the large number of plague centers

make the fight against the disease difficult. The center of the combat in the eastern Provinces was Saratov, where a State bacteriological institute was established during the current year to study the sources of the infection and to take measures against spread. The institute was stated to be well equipped and to have organized special plague stations at Alexandrov-Gay, Astrakhan, Ganoshkin, Tsarytsin, Ural and Urda.

YUGOSLAVIA.

Communicable Diseases—Year 1923.

Communicable diseases were notified in Yugoslavia (Kingdom of the Slavs, Croats, and Slovenes), during the year 1923, as follows:

Disease.	Cases.	Deaths.	Remarks.
Diphtheria Measles Scarlet fever Smallpox Typhoid fever Typhus fever Typhus fever, recurrent Whooping cough	1, 943 13, 135 16, 051 1, 042 3, 454 352 13 3, 886	302 220 3, 677 199 507 49 193	Paratyphus fever: Cases, 216; deaths, 13.

Cases and deaths, year 1923.

Population, 12,017,323.

Dysentery-Malaria.

During the same period 4,129 cases of dysentery with 627 deaths and 17,926 cases of malaria with 155 deaths were reported in the seven States of Yugoslavia.

During the month of January, 1924, 35 cases of dysentery with 6 deaths and 524 cases of malaria with 5 deaths were reported in Yugoslavia.

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 lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended June 27, 1924.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China: Amoy India: Madras Rangoon	May 4–10 May 11–17 May 4–10	 1 5	1 1	

' 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 June 27, 1924-Continued.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon: Colombo	May 4-10	6	2	Three plague-infected rodents.
Chile: Antofagasta	May 11-17	1		
China: Foochow Nanking	Apr. 27-May 3 May 4-17			Present. Do.
India: Karachi	May 11-17	13	14	
Madras (presidency)	May 4-10	13	11	
Russia: Turkestan— Amu-Daria				Outbreak reported Apr. 23, 1924
Bokhara Khiya	May 10			with about 230 cases. Present. Do.
Syria: Beirut	do	3		

British South Africa: Southern Rhodesia. Manitoba- Winnipeg. May 1-7			1	·····	1
Southern Rhodesia	British South Africa:				1
Canada: Manitoba- Winnipeg		May 1-7	2		
Winnipeg			1	1	
Winnipeg	Manitoba-				
China: May 4-10. Present. Chungking Apr. 27-May 3. Presont. Hongkong Apr. 20-26. 10 6 Nanking May 4-17. 10 6 Colombia: May 18-31. 1 1 India: May 11-17. 13 5 5 Madras.	Winnipeg	June 1–7	2		
Amoy May 4-10 Present. Chungking Apr. 27-May 3 Present. Hongkong Apr. 20-26 10 6 Nanking May 18-31 1 Do. Colombia: May 18-31 1 1 India: May 11-17 13 5 Madras May 11-17 13 5 Madras May 4-10 6 3 Japan: Tokyo 1 1 Java: Apr. 9 6 3 West Java- Pasoerean Residency Apr. 9 Province. West Java- June 1-7 13 1 May 20-26 1 1 Including municipalities in Federal district. San Luis Potosi June 1-7 1 1 San Luis Potosi June 1-7 1 1 Samaria Apr. 28-May 24 4 2 Oporto May 18-24 4 2 Oporto May 18-24 4 2 Oporto May 18-24 1 4 Russia: May 18-24 <td>China:</td> <td></td> <td>1</td> <td></td> <td></td>	China:		1		
Chungking		May 4-10			Present.
Nanking May 4-17. Job. Colombia: Barranquilla. May 18-31. 1 India: Karachi. May 18-31. 1 Karachi. May 11-17. 13 Sanzangoon. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Java: East Java- Pasoerean Residency. Apr. 9. To Apr. 18, 1924: Cases, 199. West Java- Batavia Apr. 19-25. 3 2 Mexico: Guadalajara. June 1-7. 1 1 Mexico. June 1-7. 1 1 Samaria. June 1-7. 1 1 Poland. May 20-26. 1 Including municipalities in Federal district. Poland. Apr. 28-May 24. 4 2 Oporto. May 18-24. 4 4 Moscow Mar. 23-29. 59 59 Straits Settlements: Singapore. Apr. 27-May 3 1 1 Berne. May 18-24. 1 1 May 18-25. 1 1 1 May 18-25. <td>Chungking</td> <td>do</td> <td></td> <td>1</td> <td>Widespread.</td>	Chungking	do		1	Widespread.
Nanking May 4-17. Job. Colombia: Barranquilla. May 18-31. 1 India: Karachi. May 18-31. 1 Karachi. May 11-17. 13 Sanzangoon. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Java: East Java- Pasoerean Residency. Apr. 9. To Apr. 18, 1924: Cases, 199. West Java- Batavia Apr. 19-25. 3 2 Mexico: Guadalajara. June 1-7. 1 1 Mexico. June 1-7. 1 1 Samaria. June 1-7. 1 1 Poland. May 20-26. 1 Including municipalities in Federal district. Poland. Apr. 28-May 24. 4 2 Oporto. May 18-24. 4 4 Moscow Mar. 23-29. 59 59 Straits Settlements: Singapore. Apr. 27-May 3 1 1 Berne. May 18-24. 1 1 May 18-25. 1 1 1 May 18-25. <td></td> <td>Apr 27-May 3</td> <td></td> <td></td> <td>Present.</td>		Apr 27-May 3			Present.
Nanking May 4-17. Job. Colombia: Barranquilla. May 18-31. 1 India: Karachi. May 18-31. 1 Karachi. May 11-17. 13 Sanzangoon. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Japan: Tokyo. May 4-10. 6 Java: East Java- Pasoerean Residency. Apr. 9. To Apr. 18, 1924: Cases, 199. West Java- Batavia Apr. 19-25. 3 2 Mexico: Guadalajara. June 1-7. 1 1 Mexico. June 1-7. 1 1 Samaria. June 1-7. 1 1 Poland. May 20-26. 1 Including municipalities in Federal district. Poland. Apr. 28-May 24. 4 2 Oporto. May 18-24. 4 4 Moscow Mar. 23-29. 59 59 Straits Settlements: Singapore. Apr. 27-May 3 1 1 Berne. May 18-24. 1 1 May 18-25. 1 1 1 May 18-25. <td></td> <td>Apr 20-26</td> <td>10</td> <td>6</td> <td>1.00020</td>		Apr 20-26	10	6	1.00020
Colombia: Barranquilla		May 4-17	1		Do
Barranquilla	Colombio:	May 4 11	1		20
India: May 11-17	Berronquillo	May 18_31		1	
Karachi May 11-17 13 5 Madras		May 10-01		•	
Madras do 1 1 Rangoon May 4-10 6 3 Japan: Tokyo do 6 3 Japan: Tokyo do do 6 3 Java: East Java- do do do 8 West Java- Pasoerean Residency. Apr. 9 do do Epidemic at Kaliboto, a small locality. West Java- Batavia Apr. 19-25 3 2 Province. Mexico: Guadalajara June 1-7 1 Including municipalities in Federal district. San Luis Potosi June 1-7 1 May 20-26 1 Including municipalities in Federal district. Poland June 1-7 1 May 20-26 1 Reported May 25. Portugal: Apr. 28-May 24 4 2 Qoporto May 18-24 4 Moscow Mar. 23-29 59 59 59 Straits Settlements: Singapore May 18-24 1 1 Berne May 18-25		Mov 11-17	12	5	
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Japan: Tokyo Java: East Java- Pascerean Residency Mexico: Guadalajara MexicoApr. 9To Apr. 18, 1924: Cases, 199.West Java- Batavia Guadalajara Mexico San Luis Potosi San Luis Potosi DolandApr. 19-2532Pastine: Samaria. Poland Dorto_conto Straits Settlements: Singapore Straits Settlements: Singapore May 18-24Apr. 27-May 31May 19-24 Way 18-24 Way 18-24Apr. 27-May 311May 19-24 Way 18-24Apr. 28-May 24 May 18-2442May 18-24 Way 18-24Apr. 27-May 311May 18-24 Way 18-24111May 18-24 Way 18-2511May 18-25 Way 18-2511May 18-24 Way 18-2511May 18-25 Way 18-25 <t< td=""><td>Madras</td><td>26.00</td><td></td><td></td><td></td></t<>	Madras	26.00			
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Portugal: Lisbon					
Portugal: Apr. 28-May 24 4 2 Oporto May 18-24					deaths, 27.
Lisbon	Portugal:				
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Straits Settlements: Apr. 27-May 3 1 1 Singapore		Mor 92-90	50		
Singapore Apr. 27-May 3 1 1 Switzerland: May 18-24 1 Zurich May 18-25 1		Mial. 20-29			
Stritzerland: May 18-24 1 Zurich May 18-25 1	Straits Settlements:	App 97 May 2	1 1	1 1	
Berne. May 18-24 1 Zurich May 18-25 1	Singapore	Apr. 27-May 3	1	1	
Zurich May 18-25 1	Switzeriand:	Mar. 19.04			
Zurich May 18-25 1 Yugoslavia Year 1923 1,042 199					
Yugoslavia	Zurien	May 18-25			
	Y ugoslavia	Year 1923	1,042	199	
	•		l	ļ	

SMALLPOX.

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

Reports Received During Week Ended June 27, 1924-Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile: Concepcion Iquique Talcahuano	May 6–12. May 18–24. May 4–10.	2	1	In nitrate plants.
Valparaiso China: <u>Manchuria</u> —	May 11-24		8	
Harbin Chosen (Korea): Chemulpo	May 6-12 Apr. 1-30		 1 7	
Seoul Egypt: Alexandria	do May 14-27	33 3	7	
Mexico: Mexico City Torreon	Apr. 27–May 3 May 1–31	16	1	Including municipalities in Fed- eral district.
Poland Russia: Moscow	Mar. 23-29			Mar. 2-29, 1924: Cases, 1,348; deaths, 115. Recurrent typhus cases, 47; deaths, 1. Recurrent typhus fever, cases, 4.
Tunis: Tunis Yugoslavia	May 20–26 Year 1923	3 352	1 49	Paratyphus fever: Year 1923—
				cases, 216; deaths, 13. Typhus fever, recurrent; cases, 13.

Reports Received from December 29, 1923, to June 27, 1924.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				•
Amoy	. May 4-10	1		
Hongkong	Nov. 18-24			
India				Oct. 14-Dec. 22, 1923: Cases,
D -	1			14,117; deaths, 9,148.
Do	Dec. 00.00			Dec. 30, 1923-Apr. 19, 1921:
Bombay	Dec. 23-29	1	1	Cases, 47,278; deaths, 31,408.
Do	Feb. 3-Apr. 19		19	
Calcutta		85	69	
Do	Dec. 30-May 10	968	726	
Madras	Nov. 25-Dec. 29	15	5	
Do	Dec. 30-May 17	28	13	
Rangoon		8	5	
Do	Feb. 24-May 10	34	25	
Indo-China:			_	
Saigon	Dec. 31-Apr. 26	6	5	Including 100 square kilometers
				of surrounding country.
Philippine Islands:	1			
City				
Manila	Feb. 3-9	1	1	
Province				
Cebu	Mar. 2-8	1	1	
Siam:			_	
Bangkok	Nov. 18-Dec. 8	4	2	
Do	Dec. 31-Apr. 28	16	8	
Turkey:				
Constantinople	Dec. 2-8		1	

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

PLAGUE.

Azores: St. Michael Island Bolivia:	Oct. 20-Nov. 10	9	5	At localities 3 to 9 miles from port of Ponta Delgada.
La Paz	Oct. 1–31 Feb. 1–Mar. 31		3 10	

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

Reports Received from December 29, 1923, to June 27, 1924-Continued.

PLAGUE---Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				-
Bahia	Nov. 11-Dec. 22	. 5		
Do	Dec. 30-Mar. 15	7	6	
Porto Alegre	Feb. 10-Apr. 26	6		
Rio de Janeiro	Jan. 20-26	. 1		railway station
British East Africa:	1			
Kenya-	Esh of Man 0			
Kisumu Mombasa	Feb. 24-Mar. 8 Oct. 14-20		1	Infected acts 0 Dec 0 15 1000
Do	Dec. 30-Jan. 5	1	i	Infected rats, 2. Dec. 9-15, 1923 Cases, 4; deaths, 2; removed from vessel arrived Dec. 11,
Nairobi	Nov. 1-21	40		1923. In rural districts, several hun- dred.
Tanganyika				To Nov. 24, 1923: Cases, 39,
Do	Jan. 27-Feb. 9	8	5	deaths, 25.
Uganda	Aug. 1-Oct. 31 Oct 1-Dec 31 Jan. 1-31	734	719	
Entebbe Do	Oct 1-Dec 31	251	239	
Do	Jan. 1-31	36	35	
Canary Islands: Las Palmas	Oct. 15-Nov. 15	14	14	l .
Santa Cruz de Teneriffe	Feb. 19-May 16			Dubania and continentia
San Juan de la Rambla	Dec 11		1	Bubonic and septicemic.
Celebes Island	Dec. 11 Mar. 30	1		Locality 52 km. from Teneriffe, Epidemic.
Macassar	Feb. 20-Mar. 8	11	7	Including Menado.
Ceylon:	A CID- 20-14121. 0		1 1	Anciuding Menado.
Colombo	Nov. 11-Dec. 29	31	21-	Plague rodents, 24.
Do	Dec. 30-May 10	112	105	Plague rodents, 47.
				Lingue reaction in
Chile: Antofagasta	Mar. 16-May 17	11	1	
China:	M			
Antung	Mar. 31-Apr. 6 Apr. 27-May 3	1		Durant
Foochow	Apr. 27-May 3			Present.
Nanking	Dec. 16-29			Do.
Do	Dec. 30-May 17			Do
Ecuador:	Mon 16 21	1	1	
Eloy Alfaro	Mar. 16-31 Nov. 16-Dec. 31	1 45		Data takan 12 010, formal in
Guayaquil	NOV. 16-Dec. 31	40	13	Rats taken, 53,240; found in-
De	Inn 1 Mar 15	115	35	fected, 133.
Do	Jan. 1-May 15	115	- 35	Rats taken, 128,384; found in- fected, 549.
Jipijapa	Nov. 16-Dec. 15			Present.
Posorja	Apr. 1-30	6	1	I I COONT.
Quevedo	Jan 1-31	3	$\hat{2}$	
Quito	Nov. 1-30	11	ĩ	
Santa Rosa	Feb. 16-29		-	Do.
Vino del Milagro	Dec 1-15	1		200
Egypt				Jan. 1-Dec. 31, 1923: Cases, 1,519;
Egypt. City—				deaths, 725. Jan. 1-May 1, 1924: Cases, 264; deaths, 149.
Alexandria	Year 1923	65	33	1924: Cases, 264; deaths, 149.
Do	Apr. 2	1	1	
Cairo	Apr. 2 Year 1923	2	2	
Port Said	do	51	29	
Do	Apr. 24	1		
Suez	Year 1923	46	24	
Do	Jan. 2-Apr. 28	14	7	
Province-	TT. 1000	0.00		
Assiout	Year 1923	370	211	
Do Beni-Souef	Apr. 1-May 1 Year 1923	27	19	
Beni-Souer	1 ear 1923	63	23	
Charkich Dakhalieh	Jan 31-Mar. 27	32	2	
	Year 1923	34	2	
Fayoum	do Feb. 18-May 1	48	10	
Do Gharbieh	Year 1923	23	10	
Do	Apr 21	1	ĩ	
Girgeh	Apr. 21 Year 1923	337	193	
Do	Jan 17-Apr 25	14	- 6	
Gizeh	Jan. 17-Apr. 25 Year 1923	3	4	
Kalioubiah	do	76	10	
. Do	Jan. 6-Mar. 27	ĩ		
Kena	Year 1923	50	34	
Do	Apr. 9-29	41	29	
Menoufieh	Apr. 9–29 Year 1923	290	98	
			10	
Do	Jan. 2-Apr. 21	94	58	
Do Minia	Jan. 2-Apr. 21 Year 1923 Feb. 5-Apr. 8	106 11	58 44 9	

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

Reports Received from December 29, 1923, to June 27, 1924—Continued. PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Kalamata Patras	Apr. 18-24 do		-	Several deaths.
Hawaii (Territory of):			-	D 0.
Honokaa		-	-	Jan. 8-Mar. 14, 1924: Four
Do	May 10	1		plague-infected rodents. One plague-infected rodent.
Paauhau				Dec. 14, 1923: One plague rat.
				Dec. 14, 1923: One plague rat. Feb. 14, 1924: One plague rat. Oct. 14-Dec. 29, 1923: Cases, 34,542; deaths, 23,778. Dec. 30, 1923-Apr. 19, 1924: Cases, 144,131: deaths, 11,142. Case
India		-		Oct. 14-Dec. 29, 1923: Cases, 34 542: deaths 23 778
Do				Dec. 30, 1923-Apr. 19, 1924: Cases,
Bombay Do	Oct. 28-Dec. 22 Dec. 30-May 3	- 5 - 358		111,101, ucaulo, 111,112. Uut
Colmitte	Dec. 23-29	. 1		rected report.
Do	Jan. 6-May 10 Nov. 11-Dec. 29	. 94	21	
Karachi Do	Dec 30-Mov 17	135	33 97	
Madras Presidency	Nov. 4-Dec. 29 Jan. 27-May 17 Jan. 27-Feb. 16	1, 657	1,021	
Do	Jan. 27-May 17	676	435	
Rangoon Do	Dec. 30-May 10	20	15 202	
Indo-China:	-	1		
Saigon	Oct. 28-Dec. 8	. 19	6	Including 100 square kilometers
Do	Jan. 27-Apr. 26	5	2	of surrounding country. Including 100 square kilometers
			-	of surrounding country. One
Iraq_(Mesopotamia):				plague rodent.
Bagdad	Nov. 11-Dec. 29	8	6	
Do	Jan. 6–Apr. 30	93	38	Corrected report. JanMar., 1924: Cases, 44. In spring months of 1923, 300 deaths re-
Java				ported. Oct. 1-Dec. 31, 1923: Deaths,
East Java-				2,908 Jan. 1–Feb. 29: Deaths,
Djokjakarta	Oct. 4-Dec. 31 Jan. 1-Feb. 29		146	1,732.
Do Kedoe	Oct. 1-Dec. 31		92 1, 287	
Do	Ian 1-Feb 29		626	
Pasoeroean Pekalongau	Feb. 1-29 Oct. 1-Dec. 31 Jan. 1-Feb. 29		3 150	
Do	Jan. 1-Feb. 29		107	
Samarang	Oct. 1-Dec. 31 Jan. 1-Feb. 29		430	
Do Soerabaya	Oct. 1-Dec. 31		183 9	
Do	Oct. 1-Dec. 31 Jan. 1-Feb. 29		17	Plague rats, 5
Soerakarta Do	Oct. 1-Dec. 31 Jan. 1-Feb. 29		886 704	Corrected report.
Madagascar:	Jan. 1-1 CO. 20		101	
Tananarive Province	Oct. 1-Dec. 31		272	Bubonic, pneumonic, septice- mic. July 1-Dec. 31, 1923- city and Province: Cases, 429; deaths, 367. Jan. 1-Mar. 31, 1924-city and Province: Cases, 729; deaths, 667
Ambatondrazaka	Feb. 1-15	8 8	1	District. Type pneumonic. Do.
Ambositra Tananarive town	Feb. 1-29 Oct. 1-Dec. 31	74	74	D0.
Do Other localities	Oct. 1-Dec. 31 Jan. 29-Mar. 31	43	42	
Paraguay:	Feb. 1-Mar. 31	415	398	
Asuncion	Dec. 18	6	4	
Peru Locality—		•••••		Nov. 1-Dec. 31, 1923: Cases, 38; deaths, 24. Jan. 1-Apr. 30, 1924: Cases, 218; deaths, 78.
A yabaca	Mar. 1-31	4		1924: Cases, 218; deaths, 78.
Barranco Cajamarca	do	ī		
Cajamarca Callao	Apr. 1-30 Jan. 1-Apr. 30	29 11	17 7	In districts.
Cañete	Nov. 1-30	1	1	
Do	Feb. 1-Apr. 30	15	6	
Casma Chancay	Mar. 1-31 Dec. 1-31	2 2	1	
		1		
Chepen	Nov. 1-30			
Chepen Chiclayo	Nov. 1-30 Nov. 1-Dec. 31	2	1	
Chepen	Nov. 1-30 Nov. 1-Dec. 31 Apr. 1-30 Jan. 1-31		1	

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

Reports Received from December 29, 1923, to June 27, 1924--Continued. PLAGUE--Continued.

	T	T		[
Place.	Date.	Cases.	Deaths.	Remarks.
Peru-Continued.				
Locality-Continued.	Feb. 1-Mar. 31	3	1 1	
Guadalupe Huacho				
Huaral	do	11	4	
Huarmey	Jan. 1-Mar. 31	. 22		
Lambayeque	Mar. 1-31 Nov. 1-Dec. 31	22	15	-
Lima (city) Do	Jan. 1-Apr. 30	52		
Lima (country)	Nov. 1-Dec. 31	8	7	
Do	Jan. 1-Mar. 31	1 11		
Lurin	do	2		-
Mollendo	Jan. 1-Apr. 30	47	2	
Moro Pacora				•
Paita (city)			1	•
Paita (country)	do	8	1	
Pativalea	Apr. 1-30	2		-
Reque	do Mar. 1–31	4		· ·
Salaverry Sullana		2		•
Trujillo	Jan. 1-Apr. 30		2	Country.
Portugal:			1	
Lisbon	Dec. 13-21			
Do	Dec. 31–Jan. 6		. 1	
Portuguese West Africa: Angola				
Loanda	Oct. 1-Dec. 29	59	29	
Do			4	
Russia:		1		0.4 1 1000 15-2 10 1004 0
Bukeeve Province		•••••		Oct. 1, 1923-Mar. 10, 1924: Cases, 339; deaths, 315; 66 plague cen-
			1	ters. Entire southeast section
Turkestan—				Cases, 473; deaths, 435.
Amu-Daria				Outbreak reported Apr. 23, 1924
	1			with about 230 cases.
Bokhara Khiva	May 10			Present. Do.
Trol Provinces	1			
Ural Provinces Kalmuk district	Mar. 10	3		441; 4 plague centers.
Novy Kazanha	Mar. 1		4	At a locality on the coast; 16
Nieme			· ·	cases, 8 deaths.
Siam: Bangkok	Nov. 4-Dec. 8	3	2	
Do		5	5	
Siberia:			1	
Transbaikalia- Chita	Tom 07	2	2	Pneumonic. Occurring in vet-
Chita	Jan. 27	2	4	erinary laboratory workers.
Spain:				
Malaga	Dec. 1-31	4		
Straits Settlements:				
Penang Singapore	Jan. 27-Feb. 2	1		
Do	Nov 11-Mar. 15 Dec. 30-Apr. 12	4	13	
Syria:	Dec. 50-Apr. 12		10	
Beirut	Nov. 1-Dec. 10	3		
Do	Jan. 1-May 10	6		
Furkey:	The 0.00		3	
Constantinople Union of South Africa	Dec. 2-22	6	3	Dec. 16, 1923-Apr. 26, 1924: Cases,
Dillon of South Africa				320. deaths. 193. (White cases,
				46; white deaths, 21. Native
				cases, 274; deaths, 172.)
Cape Province		•		Reported Mar 17, 1924: Cases, 11; deaths. 7.
Uitenhage district	Dag 0-15			
O IVOIMASC UISTITUT				Plague rodent found in vicinity Haarhoff's Kraal farm.
Orange Free State				Jan. 6-Mar. 8, 1924: Cases, 132;
				deaths, 69.
Thaba 'Nchu	Fab 2.0	•••••;•		Mar. 23-29, 1924: One plague rat.
Hoopstad district	Feb. 3-9. Dec. 16-27	17	8	
Do	Jan. 6-Feb. 9	43	20	
Winburg district	Feb. 3-9	1		
Wonderfontein farm	Dec. 2-8	4		Vicinity of Hoopstad. At Hoop-
(Trongwool				stad, Dec. 9-15, 1923, one death
Transvaal— Wolmaransstad district	Mar. 2-8	3	1	of case previously reported. White, one case
W unnaranssiau uistrict	17101 · 4-J · · · · · · · · ·		· .	

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

Reports Received from December 29, 1923, to June 27, 1924—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
West Africa On vessels:	Dec. 11 Jan. 24	4	2	 Apr. 2, 1924: Reported present in one locality. At Mombasa, British East Africa. At Varna, Bulgaria, from Syrian port.

Algeria: Algiers Nov. 1-30. Mar. 1-Apr. 30 2 Do Arabia: Dec. 16-22..... Jan. 13-May 17.... Imported. Aden ÿ Four imported Do. Belgium: Brussels. Jan. 13-Mar. 29. 10 Boliv'a La Paz. 15 Oct. 1-Dec. 31.... 45 Jan. 1-Apr. 30.... 39 25 Do..... Brazil: Jan. 6-12. 2 Bahia Nov. 4-Dec. 1.... Jan. 6-Feb. 23.... 15 3 Pernambuco..... 8 Do..... ---Dec. 23-29..... Dec. 30-May 10... Porto Alegre ... 1 ā Do.. Rio de Janeiro... Nov. 18-24..... Jan. 6-May 10.... ā 3 Ÿ. 7 Do. -----Sept. 3-9..... Sao Paulo. 1 British East Africa: Tanganyika Territory 30 7 Sept. 30-Dec. 29.. Jan. 6-12..... 2 Do..... Uganda. Sept. 1-30 6 Oct. 1-Dec. 31.... Sept. 1-Oct. 31.... Entebbe..... 5 Sept. 1-30, 1923: In areas 27 miles from town of Zanzibar. Oct. 1-31, 1923: In vicinity, 1 case, 1 death. In Mikotoni district, 30 cases, 14 deaths reported. Zanzibar 116 18 British South A'rica: Northern Rhodesia.... Dec. 4-31, 1923: Cases, 40; deaths, 5. Feb. 26-Apr. 7.... 3 Jan. 1-31, 1924: Cases, 50; deaths, 11; reported from Balorale, Ka-Do..... labo, and Mankoya districts. Southern Rhodesia... 2 May 1-7..... Canada: Alberta Calgary..... British Columbia— Jan. 27-May 31.... 51 Vancouver Dec. 22-29...... Dec. 30-May 31... 10 Do..... 149 Victoria... Feb. 10-Mar. 29. 3 Manitoba-Nov. 25-Dec. 29... Dec. 30-June 7.... Winnipeg... 21 84 Do..... New Brunswick-Frederickton. Feb. 1-29, 1924: Cases, 8. Mar. 2-Apr. 5..... Dec. 8-15.... Apr. 20-26.... Feb. 10-16.... Gloucester County 4 Madawaska County ... Jan. 1-Mar. 3, 1924: Cases, 5, Restigouche County 1 2 Victoria County... Westmoreland County 5 Feb. 10-Apr. 26 Ontario Jan. 1-May 31, 1924: Cases, 429; 8 Amherstburg_____ Chapleau Mar. 1-31..... deaths, 33. 16do..... 13 1 Cochrane. ..do..... 15 5 Essex Border Fort William and Port ..do.. 12 6 Dec. 16-29..... 3 Occurring at Fort William. Arthur. London ... Feb. 3-Apr 5... 9 North Bay..... 1 Perth 14 Jan. 17-Mar. 31... Toronto ... 15 Ottawa. Feb. 17-May 31 19 Windsor Feb 1-Mar. 15.... 52

SMALLPOX.

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

Reports Received from December 29, 1923, to June 27, 1924-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada-Continued.				-
Quebec-				
Montreal	Nov. 30-Feb. 23	. 7		-
Saskatchewan-			1	
Regina	Dec. 9-15	- 1		-
Do	Dec. 30-Feb. 23	- 9		1
Saskatoon	May 18-24	- 1		-
Ceylon: Colombo	Nov. 11-17	3	1	1
Do	Jan. 20-May 3		i 1	
Chile:	Jan. 20 1110 0111	· ·	1 1	1
Antofagasta	Jan. 6-May 3	. 7	1 1	
Concepcion	Oct. 1-Dec. 31		_ 14	
Talcahuano	Nov. 26-Dec. 2	. 3		Dec. 22, 1923: Five cases present.
Valparaiso	Dec. 9-15	-]	. 1	
Do	Jan. 13-Mar. 10		- 18	
China:	No. 10 Dec 0		1	
Amoy	Nov. 18-Dec. 8		. 11	Including Kulangen 14 3. (1
Do Antung	Jan. 6-May 10 Dec. 31-May 18		- 17 2	Including Kulangsu, 14 deaths, and in hospital, Feb. 9, 1924
Antung	Dec. 31-May 18	· '	-	more than 20 cases stated to
				more than 30 cases stated to be present.
Canton	Dec. 23-Feb. 23			Present.
Chungking	Nov. 4-Dec. 29			Present and endemic.
Do	Dec. 30-May 10			Widespread.
Foochow	Nov. 4-Dec. 15			Present.
Do	Dec. 31-May 3			Do.
Hongkong	Oct. 28-Dec. 29	769	680	
D0	Dec. 30-Apr. 26	656	656	
Manchuria—				
Dairen	Dec. 31-Jan. 20	2		
Do	Mar. 3-Apr. 20	4	1	
Harbin Do	Nov. 12-Dec. 22 Jan. 1-Mar. 17	36 19		
Nanking	Dec. 2-15	15	5	Do.
Do	Dec. 30-May 17			Do.
Shanghai	Dec. 29			Prevalent.
Do	Jan. 6-May 3	34	79	Cases foreign: deaths. Chinese
D0	van. o may o		1	Cases, foreign; deaths, Chinese and foreign.
Tientsin	Mar. 23-May 3	6		Reported by mission and British
	-		1	municipality; one mission hos-
				pital.
Chosen (Korea):				
Chemulpo Seoul	Jan. 1-31	1		
Do	Nov. 1-30			
Du	Feb. 1-Apr. 30			
Colombia:			3	
Colombia: Barranquilla	Apr. 6-May 31		3	
Colombia: Barranquilla Buenaventura	Apr. 6-May 31 Nov. 18-Dec. 15	 8 3	3	
Colombia: Barranquilla Buenaventura Do	Apr. 6-May 31	8 3	3	
Colombia: Barranquilla Buenaventura Do Costa Rica:	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12	8 3 2	3	
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon	Apr. 6-May 31 Nov. 18-Dec. 15	3	3	Oct. 1-Dec. 31, 1923: Cases, 1;
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12	3	3	Oct. 1-Dec. 31, 1923: Cases, 1; deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12	3	3	Oct. 1-Dec. 31, 1923: Cases, 1; deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case.
Colombia: Barranquilla Buenaventura Do Osta Rica: Port Limon Zzechoslovakia Dominican Republic:	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5	3 2	3	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12	3	3	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana cuador:	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22	3 2 14	3	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30	3 2 	3	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31	3 2 14 4 1		deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Osta Rica: Port Limon Czechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15	3 2 	3	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Milagro	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Jan. 1-May 15 Jap. 1-15	3 2 		deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Milagro Quito	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15	3 2 		deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Milagro Quito gypt:	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30	3 2 	 1 26	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia La Romana Cuador: Esmeraldas Guayaquil Milagro Quito gypt: Alexandria	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6	3 2 	 1 26 7	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Quito gypt: Alexandria Cairo Port Said	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2	3 2 14 4 1 3 1 167 5 3 1	 1 26	deaths 1, occurring in Slovakia.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Quito gypt: Alexandria Cairo Port Said	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11	3 2 14 4 1 3 1 167 5 3	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case.
Colombia: Barranquilla Buenaventura Do Osta Rica: Port Limon Czechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil Boo Milagro Quito Cairo	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2	3 2 14 4 1 3 1 167 5 3 1	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case.
Colombia: Barranquilla	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2	3 2 14 4 1 3 1 167 5 3 1	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 33, Jan 1-Mar. 31, 1924: Cases, 16.
Colombia: Barranquilla	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2	3 2 14 4 1 3 1 167 5 3 1	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Quito gypt: Alexandria. Cairo Port Said Do Sthonia inland	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-80 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2 Apr. 16-22	3 2 14 4 1 3 1 1 167 5 3 1 2	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 33, Jan. 1-Mar. 31, 1924: Cases, 16. Apr. 1-30; 2 cases. One dead.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Caron Republic: La Romana Cuador: Esmeraldas Guayaquil Do Quito gypt: Alexandria Cairo. Port Said Do Sthonia inland rance: Cherbourg	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2 Apr. 16-22 Feb. 9-15	3 2 14 4 1 3 1 1 167 5 3 1 2 2 	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 33, Jan. 1-Mar. 31, 1924: Cases, 16.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Czechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Milagro Quito gypt: Alexandria Cairo Port Said Do Port Said Do Fort Said Do Port Said Do Cherbourg Cherbourg Cherbourg	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-80 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2 Apr. 16-22	3 2 14 4 1 3 1 1 167 5 3 1 2	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 38, Jan. 1-Mar. 31, 1924: Cases, 16. Apr. 1-30; 2 cases. One dead. British seaman.
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Zechoslovakia Dominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Quito gypt: Alexandria Cairo. Port Said Do sthonia inland rance: Cherbourg itrattar	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2 Apr. 16-22 Feb. 9-15 Mar. 3-Apr. 13	3 2 14 4 1 3 1 167 5 3 1 2 2 	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 33, Jan.1-Mar. 31, 1924: Cases, 16. Apr. 1-30; 2 cases. One dead. British seaman. England and Wales. Dec. 30-
Colombia: Barranquilla Buenaventura Do Costa Rica: Port Limon Czechoslovakia Cominican Republic: La Romana Cuador: Esmeraldas Guayaquil Do Milagro Quito gypt: Alexandria Cairo Port Said Do Port Said Do Fort Said Do Port Said Do Cherbourg Cherbourg Cherbourg	Apr. 6-May 31 Nov. 18-Dec. 15 Apr. 3-12 Feb. 18-Apr. 5 Jan. 27-Mar. 22 Nov. 16-30 Dec. 1-31 Jan. 1-May 15 Apr. 1-15 Nov. 1-30 Feb. 27-May 6 Jan. 1-Feb. 11 Nov. 24-Dec. 2 Apr. 16-22 Feb. 9-15	3 2 14 4 1 3 1 1 167 5 3 1 2 2 	 1 26 7	deaths 1, occurring in Slovakia. Mar. 1-31, 1924; one case. Imported. Nov. 1-Dec. 31, 1923: Cases, 38, Jan. 1-Mar. 31, 1924: Cases, 16. Apr. 1-30; 2 cases. One dead. British seaman.

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

Reports Received from December 29, 1923, to June 27, 1924-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece: Saloniki	Oct. 22-Dec. 30		11	
Do	Dec. 31-Apr. 20	. 31		
Guadeloupe (West Indies)				Jan. 2-16, 1924: Present. Present. Vicinity of Point &
Abymes	Feb. 16	•	-	Present. Vicinity of Point &
	Dec. 18		1	Pitre. Present.
Basse Terre	Jan. 12-Feb. 16	·	-	Do.
Do Marie Galante Island	Dec. 18			Off shore. Estimated 60 cases
Do	Feb. 16			Present.
Monle.	Jan. 12-Feb. 16			Do
Point à Pitre	Dec. 18		. [Present in vicinity.
Haiti:	Feb. 3-Apr. 26	4		Mor. 0.15 1024. Two come in
Cape Haitien	Feb. 10-16	i		Mar. 9-15, 1924: Two cases in hospital.
Port au Prince	Feb. 17-May 3	5	1	Developed at Limbe, Haiti.
India				Uct. 14-Dec. 29, 1923; Cases.
India				9,720; deaths, 2,241. Dec. 30, 1923-Apr. 19, 1924: Cases,
Do				Dec. 30, 1923-Apr. 19, 1924: Cases,
Bombay	Oct. 28-Dec. 29	55	25 699	54,043; deaths, 11,030.
Do	Dec. 30-May 3 Dec. 16-29 Dec. 30-May 10 Dec. 30-May 17	1,372	699	
Calcutta Do	Dec. 10-28	33	35	
Karachi	Dec. 30-May 17	209	78	
Madras		23	3	
Do	Dec. 30-May 17	345	39	
Rangoon	Dec. 30-May 17 Nov. 4-Dec. 29	12	4	
Do	Dec. 30-May 10	95	32	
Indo-China:				
City	Nov. 4-Dec. 29	133	74	Including 100 square kilometers
Saigon Do	Dec. 31-Apr. 26	853	480	of surrounding country.
Iraq (Mesopotamia):				
Bagdad	Oct. 24-Dec. 29	46	28	•
Do	Dec. 30-Apr. 12	45	33	
Italy:	Am 1 15			Estimated.
Treviso Trieste	Apr. 1-15 Feb 17-93	15 4		Estimated.
Turin	Feb. 17-23 Feb. 18-24	ī		
Jamaica				Nov. 25-Dec. 29, 1923 Cases, 115.
Do				Dec. 30, 1923-May 17, 1924: Cases,
Kingston	Nov. 25-Dec. 29	3		515. Reported as alastrim.
Do	Dec. 30-Apr. 26	17		Delayed report for Feb. 17-23, 1924, 1 case.
Japan:				1001, 1 000.
Kobe	Feb. 14-May 12	18	7	•
Nagoya	Apr 6-12	3	1	
Nagoya. Taiwan Island	Jan. 1-Mar. 31	8		- 1 10 1004 Guara 100
Tokyo	Jan. 1-Apr. 12 Mar. 30-May 4	136		To Apr. 18, 1924: Cases, 199.
Yokohama Java:	Mar. 30-May 4	3		
East Java—				·
Patjiram	Mar. 8			Epidemic.
Pasoerean Residency	Apr. 9			Epidemic at Kalibato, a small
Soerabaya	Oct. 31-Dec. 29	348	60	locality.
Do West Java—	Dec. 30-Apr. 12	342	80	
west Java Batavia	Oct. 27-Dec. 28	65	13	
Datavia Do	Dec. 29-Apr. 25	60 81	13	Province.
Latvia	200. 20 mpr. 20			Oct. 1-Dec. 31, 1923; Cases, 6:
				Oct. 1-Dec. 31, 1923; Cases, 6: Jan. 1-Mar. 31, 1924: Cases, 11.
Lithuania				Mar. 1-31, 1924: Cases, 36;
Malta	70-1-1-00			deaths, 11.
Maita	Feb. 1-29	1		
Durango	Apr. 1-30	1	2	
Guadalajara	Jan. 27-June 7	5	11	
Manzanillo	Dec. 4-10	5	1	
Mazatlan	Mar. 31-Apr. 13		4	Apr. 21, 1924: Cases from 25-35.
				In city and vicinity. No mor-
Marias Citre	Nor of Dec. 00	32		tality reported. Including municipalities in Fed-
Mexico City	Nov. 25-Dec. 29	32		eral District.
Do	Dec. 30-May 3	198	23	Do.
Monterey				Mar. 24, 1924, 11 cases officially
Monterey				Mar. 24, 1924, 11 cases officially announced.

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

Reports Received from December 29, 1923, to June 27, 1924-Continued.

SMALLPOX---Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico-Continued.				
Salina Cruz	Jan. 1-Apr. 30	5	4	Nine cases chicken por present.
San Luis Potosi	Mar. 16-June 7		. 2	The calco chicken pox present.
Tampico	Jan. 21-May 31	. 54		From Irapuato, 9; La Barra, 1.
Vera Cruz	Nov. 3-Dec. 30		_ 4	From Irapuato, 9; La Barra, 1. Jan. 21-Apr. 10, 1924; Cases, 3
Do	Jan. 6-Apr. 20	2	7	(12 in soldiers or soldiers' fam
Netherlands:	-		1	ilies); deaths, 5.
Rotterdam	Jan. 20–26	3		-
Palestine:			1	
Jaffa	Jan. 15-28	3		•
Jerusalem	Feb. 18-25			Demonte d 36 - or
Samaria Persia:	May 20-26	1		Reported May 25.
Teheran	Sept. 24-Dec. 23		4	
Do	Dec. 22-Jan. 31		$\hat{1}$	
Poland			-	Sept. 23-Dec. 31, 1923, Cases 83
				Sept. 23-Dec. 31, 1923: Cases, 83 deaths, 20. Jan. 1-Mar. 29 1924: Cases, 695; deaths, 68.
Portugal:				
Lisbon	Nov. 11-Dec. 29	19	10	Corrected report.
Do	Dec. 31-May 24 Nov. 25-Dec. 29 Dec. 30-May 24	105	21 23	
Oporto	Nov. 25-Dec. 29	39	63	
Do	Dec. 30-May 24	111	03	
Portuguese East Africa: Lourenco Marques	Dec. 30-Jan. 5	2	1	
Portuguese West Africa:	Dec. 30-341. 9-4	–		· · · · ·
Angola-			1	
Loanda	Dec. 2-29		5	
Russia:	200.2 20000000			
Moscow	Mar. 23-29	59		
Ukraine				Aug. 1-Sept. 30, 1923: Cases, 143,
Senegal:			1	
Dakar	Apr. 1-30	1		
Siam:				
Bangkok	Oct. 28-Dec. 8	33	18	Nov. 25-Dec. 1, 1923; epidemic.
Do	Dec. 30-Apr. 28	15	2	Imported.
Siberia:	0.4.01		1	Design Free Marco Child D II
Dauria Station	Oct. 21			Present. Locality on Chita Rail-
Norma T com co			1	way, Manchurian frontier.
Sierra Leone: Sherbro District—				
Tagbail	Nov. 1-15	3		
Spain:	1101.1.10	•		
Barcelona	Nov. 15-Dec. 26		2	
Do	Jan. 3-Mar. 26		5	
Cadiz	Mar. 1–31	2		
Valencia	Nov. 25-Dec. 29	152	12	
Do	Dec. 30-May 24	453	38	
traits Settlements:				
Penang	Mar. 16-29	2	2	
Singapore	Dec. 16-29	2	1	
,Do	Dec. 30-May 3	7	1	
witzerland:	T 07 36 18			0
Basel	Jan. 27-May 17	5		Corrected.
Berne	Nov. 17-Dec. 22	15 42	1	
Do	Jan. 6-May 24	44 60	1	
Lucerne	Nov. 1-Dec. 31 Jan. 1-Apr. 39	50 50		
Do Zurich	Jan. 27-May 24	4		
yria:	au. 21-may 21.,			
Aleppo	Nov. 25-Dec. 1	1		In vicinity, at Djsr Choughour.
Beirut.	Jan. 21-Feb. 20	$\overline{2}$		
Damascus	Nov. 16-Dec. 15	7		
Do	Jan. 29-Apr. 28	40		
unis:				
Tunis	Oct. 27-Nov. 2,	5	1	
Do	Jan. 8-May 19	14	7	
urkey		····· <u>·</u> ·		Dec. 1-31, 1923: Cases, 120;
Constantinopie	Nov. 11-Dec. 8	3		deaths, 15.
Do	Jan. 6-May 17	5	1	0.4.1.01.1000
Inion of South Africa	•••••••••••••••••••••••••			Uct. 1-31, 1923: Colored, cases,
				41; deaths, 2; white, cases, 3.
1	1			
				Feb. 1-29, 1924: Cases, 71
Cape Province	Oct. 28-Dec. 8			Oct. 1-31, 1923: Colored, cases, 41; deaths, 2; white, cases, 3. Feb. 1-29, 1924: Cases, 71 (white, 6); 1 death. Outbreaks.

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

Reports Received from December 29, 1923, to June 27, 1924-Continued.

SMALLPOX-Continued.

	SHALLFUA		cinuea.	
Place.	Date.	Cases	3. Deaths.	Remarks.
Union of South Africa-Con.		1	-	Quithershe
Natal	Oct. 28-Nov, 3		1	Outbreaks.
Do				
Orange Free State	Mar. 16-22. Oct. 28-Nov. 24. Jan. 20-Apr. 19. Nov. 18-Dec. 1. Mar. 11-17. Nov. 25-Dec. 15. Feb. 3-23.			. Do.
Do	. Jan. 20-Apr. 19	.		- Do.
Transvaal	Nov. 18-Dec. 1	•		- Do.
• Do Johannesburg	Nov 25-Dec 15			- Do.
Do	Feb. 3-23		S	-1
Uruguay: Montevideo	1		l	
Venezuela: Caracas Margarita Island—	Jan. 22			Epidemic.
Punta Piedra On vessels:	Mar. 21			20 miles from mainland.
Steamship Coppename				At New Orleans from Puerto Barrios, Guatemala.
U. S. naval hospital ship Mercy	_ Apr. 1	1	L	At St. Thomas, Virgin Islands, from Culebra, P. I. Patient had been in Jamaica, West Indies, two weeks previous, Case reported as alastrim.
S. S. Nitokris	Apr. 30	1		At Guayaquil, from Valparaiso, Chile. Under treatment at laz-
S. S. Torres	Jan. 14	1		aretto. At New Orleans quarantine sta- tion from Tampico, Maxico, via ports. Case in seaman signed on at Galveston, Tex.,
S. S. Tupper S. S. Vasari	Jan. 20–26 Dec. 31	1		on outward voyage. At Gonaives, Haiti. At Trinidad, West Indies, from Buenos Aires, Argentina. Ves- sel left Buenos Aires, Dec. 15 1923, for New York, via Santos,
Sch. Annie M. Parker	Jan. 23	3		Rio de Janeiro, Trinidad, Barbados. At sea. Vessel abandoned and crew removed to vessel bound for Rotterdam. Patienta re-
Yugoslavia				moved at Liverpool Feb. 28, bound for Newfoundland. Year, 1923; cases, 1,042; deaths, 199.
· · · · · · · · · · · · · · · · · · ·	TYPHUS	FEVE	R.	
· · · · ·	(
Algeria: Algiers Do	Nov. 1-Dec. 31 Jan, 1-Mar. 31	7 21	3 7	
Bolivia: Le Pas Do	Oct. 1-Dec. 31	43	5	
Do Brazil: Porto Alegre	• am 1 mpr. 00,	41	4	· .
Bulgaria: Sofia	F GU , 2T IIIIIIIIIIIII		1	Nov. 18-Dec. 15, 1923: Paraty-
anary Islands:				phus fever, cases, 17. Jan. 6- Apr. 19, 1924; Paratyphus fev- er, cases, 11.
Santa Cruz de Teneriffe Seylon:			2	
Colombo hile: Antofagasta	Feb. 24-Mar. 1	1		Case from port, 1.
Do	Dec. 2-8 Apr. 6-12	42		
Concepcion	Oct. 1-Nov. 30	4	4	Dec 11-94 1092; Decthe 2
Do	Jan. 8-May 12	5	14	Dec. 11-24, 1923: Deaths, 3. In district, at 12 localities, 92
Taniana	Jan. 20-May 24	2	1	cases. In nitrate plants. Dec. 5, 1923: 3 cases under treat-
Taloshuano				
Taleahuano Do	Jan. 31-May 10	12	4	ment. Jan. 12, 1924: 1 case un-
Talcahuano	· · · · · · · · · · · · · · · · · · ·		4 29	ment. Jan. 12, 1924: 1 case un- der treatment. Dec. 24, 1923: In hospital, 34 cases.

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

Reports Received from December 29, 1923, to June 27, 1924—Continued. TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:	-			
Antung	Nov. 12-Dec. 30 Nov. 18-24	. 5		
Chungking	Nov. 18-24			Present.
Do	. Dec. 16-29			Endemic.
Do	Dec. 30-Feb. 16			Do.
Manchuria	Man 10 Mar 12	3		
Harbin	. Mar. 18-May 12		1	
Chosen (Korea): Chemulpo	Feb. 1-Apr. 30	5	4	
Seoul	Feb. 1-Apr. 30		14	
Czechoslovakia	100.1 1101.00			OctDec., 1923: Cases, 21. Mar
				1-31, 1924: Cases, 30; deaths, 2
Danzig-Polish frontier:		1	1	
Mühlbanz	Mar. 6			Present: Origin stated to b
				focus at Mallinia.
Ecuador:				
Quito	Nov. 1-30	14	1	
Egypt:			ļ	
Alexandria		3		
Do		11	;;-	
Cairo	Sept. 10-Dec. 31	39 5		
Do Esthonia	Jan. 8-Feb. 4	1	3	Nov 1-30 1002. Baset-
Esthonia				Nov. 1-30, 1923: Paratyphu
				fever, cases, 8. Dec. 1-31, 1923 Typhus fever, cases, 15; para typhus fever, cases, 4. Janu ary 1-Mar. 31, 1924: Cases, 11
	1			ary 1-Mar. 31, 1924: Cases, 11
				paratyphus fever, cases, 21.
Finland				Dec. 1-15, 1923: Paratyphus fever
A				cases, 15. Feb. 15-Apr., 1924
Germany: Coblenz	In Of Rob 0			Paratyphus fever, cases, 46.
	Jan. 27-Feb. 2	1		
Greece: A thens	Jan. 11-Feb. 20	i	7	
Saloniki	Nov. 26-Dec. 30	7	3	
Hungary	NOV. 20-Dec. 30	•	v	July 1-Aug. 31, 1923: Cases, 24.
Budapest	Jan. 27-Apr. 19	35	13	vily 1 Mug. 01, 1020. Cases, 24.
Java:	Jan. 21 Apr. 10	~		
East Java—				
Soerabaya	Dec. 9-29	12		
Do	Dec. 30-Jan. 5	2		
				Oct. 1-Dec. 31, 1923: Cases, 22
	1			Paratyphus fever, 12; recurrent
				typhus, 3. Jan. 1-Mar. 31 1924: Cases, 132. Paratyphus
				1924: Cases, 132. Paratyphus
Libau	Apr. 8–15	4		A. 1: B. 1. Recurrent, 1 case
Lithuania				Year, 1923: Cases, 819; deaths 86; recurrent typhus, 13 cases
		. 1		86; recurrent typhus, 13 cases
				Feb. 1-Mar. 31, 1924: Cases
Mexico:	I	1		269; deaths, 27.
Durango	Dec. 1-31		2	
Do	Jan. 1-Feb. 29		3	Tab. 1 00 1004 Games & deaths
Guadalahara	Jan. 27-May 10	5	9	
Guadalahara	Jan. 27-May 10	5	9	1.
Guadalahara Mexico City	Jan. 27-May 10 Nov. 25-Dec. 29	5 86		1. Including municipalities in Fed-
Guadalahara Mexico City Do	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3	5 86 110	8	1.
Guadalahara Mexico City Do San Luis Potosi	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23	5 86 110		1. Including municipalities in Federal district.
Guadalahara Mexico City Do San Luis Potosi Torreon	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3	5 86 110	8	1. Including municipalities in Fed
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands:	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31	5 86 110		1. Including municipalities in Federal district.
Guadalahara Mexico City Do. San Luis Potosi. Torreon. Vetherlands: Amsterdam.	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23	5 86 110		1. Including municipalities in Federal district.
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Norway:	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23. Feb. 1-May 31 Mar. 2-Apr. 26	5 86 110 4		1. Including municipalities in Federal district.
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31	5 86 110		1. Including municipalities in Federal district.
Guadalahara Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger alestine:	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31	5 86 110 4 1		1. Including municipalities in Federal district.
Guadalahara Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23. Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15	5 86 110 4 1 7		1. Including municipalities in Federal district.
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31	5 86 110 4 1		1. Including municipalities in Federal district.
Guadalahara Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	1. Including municipalities in Federal district.
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23. Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15	5 86 110 4 1 7 4		Including municipalities in Fed- eral district.
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Persia:	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	1. Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947;
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	 Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1-
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	 Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92, recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1. Jan. 1-
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	 Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases.
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	1. Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases,
Guadalahara Mexico City Do Torreon Netherlands: Amsterdam Norway: Stavanger Palestine: Jaffa Jerusalem Teheran	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	 Including municipalities in Federal district. District. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 2, 2022 deaths, 1922. Recurrent cases, 63. Jan. 6-Mar. 8, 1924: Cases, 2, 2022 deaths, 1923. Recurrent cases, 63. Jan. 6-Mar. 8, 1924: Cases, 64, Jan. 6-Mar. 8, 1924: Cases, 63. Jan. 6-Mar. 8, 1924: Cases, 64, Jan. 7-Mar. 8, 1924: Cases,
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Stavanger Palestine: Jaffa Jerusalem Persia: Teheran Poland	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5 Sept. 24-Oct. 23	5 86 110 4 1 4	8 1 7	 Including municipalities in Federal district. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 2, 2022 deaths, 1922. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 2, 2022 deaths, 1922. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 64, Jan. 6-Mar. 8, Jan. 8, Jan. 6-Mar. 8, Jan. 8,
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Stavanger Palestine: Jaffa Jerusalem Persia: Teheran Poland	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Jan. 17-23 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5	5 86 110 4 1 7 4	8 1 7	 Including municipalities in Federal district. District. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 2,192; deaths, 182. Recurrent fører, cases, 106; deaths, 5. Locality on Danzig-Polish fron-
Guadalahara Mexico City Do San Luis Potosi Torreon Netherlands: Amsterdam Stavanger Palestine: Jaffa Jerusalem Persia: Teheran Poland	Jan. 27-May 10 Nov. 25-Dec. 29 Dec. 30-May 3 Feb. 1-May 31 Mar. 2-Apr. 26 Dec. 25-31 Jan. 1-Apr. 15 Feb. 19-May 5 Sept. 24-Oct. 23	5 86 110 4 1 4	8 1 7	 Including municipalities in Federal district. District. District. Sept. 23-Dec. 31, 1923: Cases, 947; deaths, 92; recurrent typhus, cases, 67; deaths, 1. Jan. 1- Feb. 9, 1924: Cases, 1,232, deaths, 102. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 2, 202; deaths, 192. Recurrent cases, 63, Jan. 6-Mar. 8, 1924: Cases, 64, Jan. 6-Mar. 8, Jan. 8, J

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

Reports Received from December 29, 1923, to June 27, 1924—Continued. TYPHUS FEVER—Continued.

Place.	Date.	Cases	. Deaths	. Remarks.
				-
Rumania: Kishineff district	Nov. 1-Dec. 31	. 18	5	
Kishineff district				
Karelian Republic Moscow Novo Cherkask Rostov-on-Don Saratov.	Mar 12			in various sections. Prevalent.
Moscow	Mar. 23-29	16		Recurrent typhus; cases, 4.
Novo Cherkask	Mar. 12			Prevalent.
Rostov-on-Don	do	-		Do.
Ukraine			-	Do. Aug. 1-Sept. 30, 1923: Cases, 76
				Recurrent typhus; cases, 2,30
Siberia: Vladivostok	- Feb. 19			Propert and wanging an anidam
VIAGIVOSTOR	- FCD. 18	-		 Present and verging on epidem prevalence.
Spain:				-
Barcelona Do	- Nov. 29-Dec. 12		- 2	
Madrid	Jan. 3-Apr. 2 Dec. 1-31		7	
Do	Jan. 1-31		- 2	
Syria:	Jan. 27-Feb. 2	Ι.		
Damascus Tunis:	1	1		-
Tunis		4	1	
Turkey	Nov 11 Dec 20	1.	· ;	Dec. 1-31, 1923: Cases, 41; death
Constantinople Do Union of South Africa	Dec' 30-Apr. 5	11	1	5.
Union of South Africa				Oct. 1-31, 1923: Colored, 22 cases, 58 deaths; white, 2 case
				cases, 58 deaths; white, 2 case
				1-Feb 29 1924 Cases 40
				total, 289 cases, 58 deaths. Ja 1-Feb. 29, 1924: Cases, 40 deaths, 75 (colored). Amor white population, 7 case
				white population, 7 case
Cape Province				1 Journal Cases, 414: deaths, 75.
-		1		245: deaths, 47.
Do				Jan. 1-Feb. 29, 1924: Cases, 16
	1			deaths, 26. Feb. 24-Apr. 20 1924: Outbreaks.
Natal				Oct. 1-31, 1923: Colored, cases, 4
Do				deaths, 3.
D0				Jan. 1-Feb. 29, 1924: Cases, 90 deaths, 14. Feb. 24-Mar. 1
				1924: Outbreaks
Durban	Nov. 24-Dec. 1	73		Cases occurring among nativ stevedores in the harbor are
				of the port and confined to on
			1	barracks.
Orange Free State				Oct. 1-31, 1923: Colored, cases 25; deaths, 8. Feb. 24-Mar. 1
Do				Jan. 1-Feb. 29, 1924: Cases, 56 deaths, 10. Mar. 23-Apr. 5
	1			Questins, 10. Mar. 25-Apr. 6
Kroonstad District	Jan. 20-26			Outbreaks. Outbreaks on 2 farms.
Kroonstad District Transvaal				Oct. 1-31, 1923: Colored, cases, 13
Do Johannesburg Do Potschefstrom District	Oat 1-Dec 21			Jan. 1-Feb. 29, 1924: Cases, 90
Do	Jan. 6-Mar. 29	3 8	+	deaths, 26.
Potschefstrom District	Jan. 20-26			Outbreaks on 7 farms.
enezueia.				
Maracaibo Do	Feb. 17-May 3		1	
ugoslavia	Year 1923	352	49	Paratyphus fever: Cases, 216 deaths, 13. Typhus fever, re
Croatia—				deaths, 13. Typhus fever, re
Zagreb Do	Feb. 17-23	3		current: Cases, 13.
Serbia-	1			
n vessel:	Nov. 25-Dec. 1	1		
8. S. Malta Maru	Mar. 17	1		At Rotterdam, Netherlands, from
	Ava. a. 11	1		South America.
11	1			
- 10	YELLOW		ĸ	
razil:	12	2		
Pernambućo City	Nov. 16, 1923	ິ 3	~	D 4 3 month
Do Vest Africa (French Dahomey):	May 26, 1924			Reported present.
Porto Novo	May 26			Present.

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