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## AN EPIDEMIOLOGICAL STUDY OF FOLLICULOSIS OF THE CONJUNCTIVA.

By MILTON V. VELDEE, Assistant Surgeon, United States Public Health Service.

The affection known as folliculosis of the conjunctiva is, in some sections, wide-spread among children of school age. It is very frequently diagnosed, especially in the atypical case, as trachoma. Ophthalmologists can not always agree among themselves, and among health officers and school physicians the confusion seems of even more frequent occurrence. The differential diagnosis may be impossible without keeping the patient under treatment and observation.

The present epidemiological study of folliculosis serves to bring out the dissimilarity of the two diseases and the benign character of folliculosis. During the school years 1921-22 and 1922-23 the writer examined 7,146 children of school age in Pinellas County, Fla., and Dunklin County, Mo. Out of 4,733 individuals under 20 years of age examined in Florida, 614, or 13 per cent, had well-marked folliculosis of one or both eyelids. An additional 16.6 per cent had mild involvement of the lids. Among 2,413 children of school age in Dunklin County, Mo., 236, or 9.8 per cent, had well-advanced folliculosis, and another 193, or 8 per cent, were mildly involved. During this time only four children were seen with trachoma, and an additional five or six with suspicious looking eyelids (all seen in Dunklin County, Mo). These rates for folliculosis are considerably higher than any trachoma rate so far reported for school children (except among Indians).

### Trachoma.

It is unnecessary here to elaborate on the etiology or general distribution of trachoma. We can accept that it is caused by some specific infective agent which may be communicated from one individual to another through the medium of the secretion, that it is endemic in certain fairly definitely outlined communities, and that the lack of personal hygiene is a factor in its propagation.

In order more clearly to distinguish the condition which we are calling folliculosis from trachoma, it seems advisable to record here a

careful description of the latter disease. This is perhaps best done by quoting Surg. John McMullen, of the United States Public Health Service (1), whose experience in the field of trachoma is extensive.

"The conjunctiva over the tarsus and in the cul-de-sac is red and thickened, and the surface is uneven and readily bleeds. The blood vessels of the conjunctiva are more or less obscured, and it is not possible to trace them uninterruptedly from the ciliary border to the cul-de-sac, which would be possible in the absence of hypertrophy. The appearance of the blood vessels is considered very important, as this indicates the degree of conjunctival hypertrophy, a very essential feature in trachoma. The conjunctiva may appear velvety or even raspberrylike in appearance, or it may present the gray, translucent, roundish granules, in accordance with whether the papillary or granular form predominates.

"The course of trachoma, when unmoletted, is a gradual increase of hypertrophy of the conjunctiva, which varies in different cases. Finally, hypertrophy gradually disappears and is replaced by a slowly forming cicatricial state. This is a question of years.

"During the interim the patient suffers untold misery, vision grows less and less, even to blindness.

"Following the cicatricial stage, the trachoma is cured in that the specific morbid process has come to an end; but very often entropion, trichiasis, pannus, and xerophthalmus remain."

In this same article Doctor McMullen reviews 9,000 cases of trachoma, treated by himself or his assistants, varying in age from early infancy to old age. He found that as a result of being infected with trachoma 50 per cent had some form of severe impairment of vision.

The economic burden on the community is brought out by Lamb (2), who reports that 19.7 per cent of all the persons receiving blind pension in the State of Missouri during the year 1921 were blind because of trachoma. Trachoma is more often a disease of the poor, hence the afflicted is very likely to become a community charge. However, under favorable conditions, infection may spread to all social classes.

#### **Folliculosis of the Conjunctiva.**

This condition has been variously termed "follicular conjunctivitis," "school folliculosis," "simple folliculosis," and "folliculosis of the conjunctiva."

The last two terms seem to be the most applicable. Uncomplicated folliculosis can not be regarded as a conjunctivitis. The condition may become complicated with an active inflammation. There is, then, the association of two affections, and not a new disease.

The differential diagnosis between folliculosis and trachoma is based on the appearance of the conjunctiva in the case under observation, and a history of eye conditions among the adult members of the patient's family and intimate contacts. Viewing the eyelids externally there are no evidences that the child is suffering from follic-

ulosis unless complicated by inflammation. In either event there is no sign of palpebral thickening, though there may be a fullness of the eyelids in the marked cases. On everting the lids there are brought to view the lymphoid follicles distributed over the lid in accordance with the extent of the affection. In the advanced case the inner surface of the lid simulates a new plowed field, with the furrows running from one canthus to the other in clearly defined crescentic rows, the follicles having coalesced to form rows. They still retain their smooth, glistening appearance and are transparent. There is no tendency for the surface to bleed. This lymphoid proliferation is so superficially situated in the subepithelial layer of the conjunctiva that it often gives the impression of being superimposed rather than an integral part of the conjunctival tissue. There is a total absence of hypertrophy involving the body of the conjunctiva, and for this reason there is no loss in the normal elasticity of the conjunctiva. When the lid is put on a stretch, the minute blood vessels may be traced from ciliary border to the cul-de-sac without any interruption. This retention of normal elasticity, the absence of hypertrophy in the body of the conjunctiva, the absence of the so-called trachoma granules, and the fact that the blood vessels remain clearly visible constitute the essential points in differentiating between trachoma and folliculosis.

The color of the follicles varies from nearly white to a decided pink. When no inflammation is present, the majority of cases show no change in color from the uninvolved conjunctiva.

The uncomplicated case shows no collection of secretion in the cul-de-sac, and the child gives no history of the eyelids being glued together in the morning. Often, however, there is associated a mild conjunctivitis, in which case there will be found a varying degree of thick, muco-purulent, sticky secretion. This is in contrast to the thin, watery, and acrid secretion of trachoma.

There never is any cicatricial formation. As the follicles are gradually absorbed, the surface of the conjunctiva returns to normal without damage to the vision, as contrasted with the cicatricial formation and impairment of vision occurring with trachoma.

The symptomatology of folliculosis may be measured very largely in terms of the amount of complicating acute inflammation. The uninvolved case gives no symptoms; in fact the child is unaware of any abnormality of the eyelids. If there is any active inflammation, the symptoms become those of a conjunctivitis—mild photophobia when in bright light, lacrimation more free than normally, and some complaint of itching or burning, particularly toward night. Acute inflammation of the eyelids occurs frequently among children with advanced folliculosis, and for this reason one must be very

careful to consider the presence of this affection in reporting symptoms as due to folliculosis.

Folliculosis in itself can claim attention only because it is so often diagnosed trachoma. In many communities it is spoken of as "granulated lids," which, again, is interpreted as trachoma by those not acquainted with local terminology. This error in diagnosis is not justified except in the atypical cases. In such cases it may be

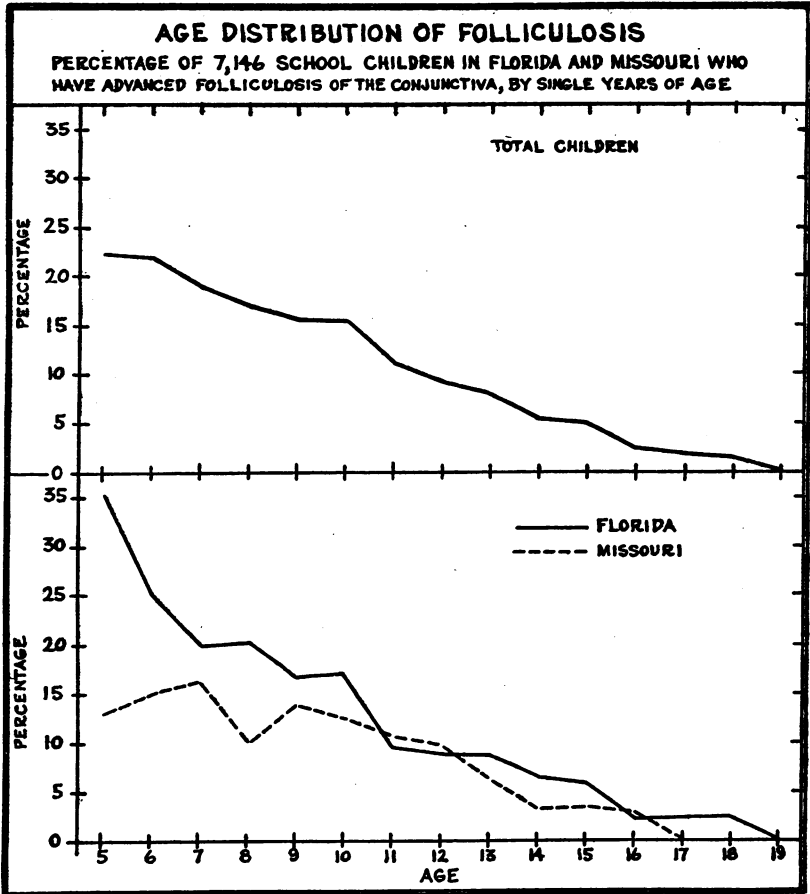


FIG. 1.

necessary to make a diagnosis of suspected trachoma and continue for observation. A survey of other members of the family and other possible adult contacts is very helpful.

**AGE IN RELATION TO FOLLICULOSIS.**

The age distribution of persons having folliculosis included in this study is confined to school age. During this study the eyelids of 7,146 children attending school and approximately 200 adults were studied (see Table I and Fig. 1). No case was found in persons above

the age of 18. In the age group 16 to 18, inclusive, only 2 per cent of the children had folliculosis. All of the 44 pupils over 18 years of age were negative, as were also 200 adults. In the group studied, the highest rate was found to occur at 5 and 6 years of age, with a considerable decrease each succeeding year. This is in sharp contrast with trachoma, a disease frequently originating in childhood and persisting into adult life.

The rapid disappearance of folliculosis in the Florida and Missouri schools occurs without any medical interference. This study did not extend to children under school age, but indications from Table I are that the affection extends to the younger ages. Its presence was noted in babies and children of pre-school age seen at various baby clinics.

TABLE I.—*Age distribution of children with well marked folliculosis.*

Age (years).	All children examined.			Florida children.			Missouri children.		
	Total.	Cases.		Total.	Cases.		Total.	Cases.	
		Num-ber.	Per cent.		Num-ber.	Per cent.		Num-ber.	Per cent.
5.....	40	9	22.5	17	6	35.3	23	3	13.1
6.....	599	132	22.0	406	103	25.4	193	29	15.0
7.....	668	126	18.9	453	91	20.1	215	35	16.3
8.....	713	121	17.0	489	96	20.5	244	25	10.2
9.....	708	111	15.7	444	74	16.7	264	37	14.0
10.....	649	101	15.6	419	72	17.2	230	29	12.6
11.....	632	64	10.1	392	38	9.7	240	26	10.8
12.....	668	62	9.3	435	39	9.0	233	23	9.9
13.....	608	49	8.1	404	36	8.9	204	13	6.4
14.....	612	34	5.6	409	27	6.6	203	7	3.4
15.....	509	26	5.1	337	20	5.9	172	6	3.5
16.....	330	9	2.5	260	6	2.3	100	3	3.0
17.....	214	4	1.9	169	4	2.4	45	0	0.0
18.....	122	2	1.6	85	2	2.4	37	0	0.0
19.....	41	0	0.0	31	0	0.0	10	0	0.0
20.....	3	0	0.0	3	0	0.0	0	0	0.0
Totals.....	7,145	850	11.9	4,733	614	13.0	2,413	236	9.8

#### INFLUENCE OF SOCIAL AND ECONOMIC CONDITIONS.

It is very difficult to classify families accurately according to their social or economic status without having detailed information relative to each member of the family. Such factors as earnings or income of father, occupation, size of family, age of family, education, and many others, all have important bearings. However, as a rough measure, the occupation of the father or wage earner will give a fair measure of the social and economic rating of the whole family. Grouping 809 Florida school children on this basis, we have results as shown in Table II. A total of 352 of these children had folliculosis to some degree. Were folliculosis a condition brought about by unhygienic living, poverty, and the lack of personal cleanliness,

we should expect to find a different distribution than that shown in Table II. We may conclude from this that the factors just enumerated probably do not materially influence the incidence of this disease.

TABLE II.—*Folliculosis among school children classified according to occupation of father.*

Group.	Occupation of father.	Total.	Children with folliculosis.	
			Number.	Per cent.
1	Professional, salaried, and merchant class.....	286	119	42.6
2	Skilled labor.....	358	160	44.7
3	Unskilled labor.....	68	28	41.2
4	Occupation unknown <sup>1</sup> .....	97	45	46.4
	Total.....	809	352	43.5

<sup>1</sup> A large portion of these gave their occupation as retired.

SIZE OF FAMILY.

Grouping the children according to the size of the family, based only on the number of children attending school, we find the distribution as shown in Table III. The higher incidence in the one school-child home is due to the fact that the children are younger children. It was observed that in the larger families the average age of the children was greater and also that the follicular cases usually occurred in the younger members.

TABLE III.—*Folliculosis among school children grouped by families according to the number of children attending school in each family.*

Number of school children in family.	Number children examined.	Number of cases of folliculosis.	Per cent of folliculosis.
1.....	462	167	36.1
2.....	358	117	32.7
3.....	252	71	28.2
4.....	144	42	29.1
5.....	40	5	12.5
Total.....	1,256	402	.....

SEX.

There seems to be no influence of sex upon the incidence of folliculosis. In Table IV 1,028 children are grouped according to sex. Of the boys, 20.1 per cent had advanced folliculosis, and of the girls, 21.2 per cent were affected.

TABLE IV.—*Relation between folliculosis and the sex of the child.*

Sex.	Total.	Normal eyelids.		Mild folliculosis.		Advanced folliculosis.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Male.....	531	306	57.6	118	22.2	107	20.1
Female.....	497	252	50.7	140	28.2	105	21.1

## NUTRITION.

Folliculosis has often been referred to as an affection of the under-nourished child. Applying Wood's standard tables to 949 Florida children (the entire enrollment of four schools), we find that this is not shown in these studies. Table V shows the distribution of folliculosis with respect to nutrition. The percentage differences are within the possible error in applying this measure for state of nutrition to the group as a whole rather than by individual ages.

TABLE V.—*Relation between folliculosis and nutrition, based on Wood's table of standards.*

Condition of nutrition.	Total.	Normal eyelids.		Mild folliculosis.		Advanced folliculosis.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Less than 10 per cent under-weight.....	760	475	62.5	160	21.1	125	16.4
10 per cent and more under-weight.....	189	133	70.4	34	18.0	22	11.6

## RELATION BETWEEN FOLLICULOSIS AND THE CONDITION OF TONSILS.

Folliculosis is often referred to as a sympathetic proliferation of the lymphoid tissue of the conjunctiva secondary to hypertrophy of this tissue elsewhere. The condition of the tonsils offers a good index for comparison. In Tables VI and VII such a comparison has been made. The children from Florida and Missouri are analyzed separately. The standard of diagnosis is identical in the two groups, but it will be noted that the classification of the tonsils is not the same. In Florida all tonsils which were not distinctly diseased (those not requiring removal) were put into one group irrespective of the amount of hypertrophy. Children whose tonsils had been removed were not separately grouped in Missouri, because of the very small number of them; they are included as having normal tonsils. The children in both groups show a definite correlation between the condition of the tonsils and the degree of folliculosis. This is most evident in the Missouri group, in which the simple hypertrophied tonsils were separated from the normal tonsils.

TABLE VI.—*Relation between folliculosis and the condition of the tonsils, irrespective of the age of the children.*

FLORIDA: 3,733 CHILDREN.

Condition of tonsils.	Total.	Normal eyelids.		Mild folliculosis.		Advanced folliculosis.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Tonsils removed.....	549	372	67.8	107	19.5	70	12.7
Tonsils not diseased.....	2,446	1,653	67.6	449	18.4	344	14.1
Tonsils diseased.....	738	409	55.4	178	24.1	151	20.5

MISSOURI: 2,394 CHILDREN.

Tonsils normal.....	1,370	1,154	84.2	112	8.2	104	7.6
Tonsils enlarged but not diseased.....	714	561	78.6	61	8.5	92	12.9
Tonsils diseased.....	310	245	79.0	25	8.1	40	12.9

TABLE VII.—*Relation between folliculosis and the condition of the tonsils in Missouri children by age groups.*

Age group (years).	Enlarged or diseased tonsils.			Normal tonsils.		
	Total number of children.	Number with advanced folliculosis.	Per cent.	Total number of children.	Number with advanced folliculosis.	Per cent.
5 and 6.....	110	19	17.3	105	14	13.3
7 and 8.....	202	39	19.3	251	26	10.4
9 and 10.....	242	33	13.6	261	24	9.2
11 and 12.....	220	26	11.8	253	25	9.9
13 and 14.....	154	10	6.5	255	9	3.5
15 and 16.....	77	5	6.5	173	6	3.5
17 and 18.....	17	0	0.0	59	0	0.0
19 and 20.....	2	0	0.0	12	0	0.0
Total.....	1,024	132	12.9	1,370	104	7.6

Age, however, may be the influencing factor. It has been shown in Table I that age plays a very important rôle. The 2,394 Missouri children are shown by 2-year age groups in Table VII. The table supplements our findings in Table I, but it also shows that children with enlarged or diseased tonsils have a higher prevalence of folliculosis than children of the same age with normal tonsils. This finding is consistent throughout all ages observed. The Florida children show the least folliculosis in the group in which the tonsils had been removed. This is probably of no real significance, since the greatest prevalence of folliculosis occurs at 6 years, whereas the greatest number of tonsillectomies in the same group of children had been performed at 13 years of age, by which time folliculosis has nearly disappeared. The influence of tonsillectomy requires more study.



## THE RELATION BETWEEN FOLLICULOSIS AND ERRORS IN REFRACTION.

If folliculosis is an affection involving any damage to the eye it should be evident in the visual acuity of the children involved. In our entire study we were unable to find any case which presented external evidence of damaged vision. Analyzing the findings of eye-chart readings in 6,029 school children (Table VIII), we do not find folliculosis increasing with a corresponding decrease in visual acuity. In fact, the percentage of folliculosis is least in the group having the poorest vision. Similarly, in Table IX 6,063 children are studied with regard to astigmatism, the extent of the astigmatic error being determined on the basis of symptoms alone. The findings do not reveal any significant figures. There is only a suggestion of a slight correlation between folliculosis and astigmatism. The 2,394 children examined in Missouri (Table X) are arranged by age groups. After ruling out the influence of age, we do not find any constant or significant correlation between folliculosis and astigmatism. A group of 3,004 children, of whom 129 wore glasses, was studied to determine whether the correction of errors in refraction had any effect on the folliculosis. The wearers of glasses showed 7.8 per cent with advanced folliculosis, against 14.8 per cent in those who did not wear glasses. However, when these children were divided into age groups the determining factor was found to be the older age of the children with glasses and not the corrective influence of glasses.

TABLE VIII.—*Relation between folliculosis and vision as determined from reading the vision chart.*

Error in refraction.	Total.	Normal eyelids.		Mild folliculosis.		Advanced folliculosis.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Vision above 8/10.....	5,279	3,731	70.7	830	15.7	718	13.6
Vision 8/10-6/10.....	405	287	70.9	51	12.6	67	16.5
Vision below 6/10.....	345	266	77.1	34	9.8	45	13.0

TABLE IX.—*Relation between folliculosis and astigmatism as measured by symptoms only.*

Error in refraction.	Total.	Normal eyelids.		Mild folliculosis.		Advanced folliculosis.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Normal.....	4,947	3,482	70.3	814	16.5	651	13.2
Mild astigmatism.....	567	437	77.1	63	11.1	67	11.8
Severe astigmatism.....	549	397	72.3	58	10.6	94	17.1

TABLE X.—*Relation between folliculosis and astigmatism in Missouri children, by age groups.*

Age group (years).	Astigmatism.			No astigmatism.		
	Total number of children.	Number with advanced folliculosis.	Per cent.	Total number of children.	Number with advanced folliculosis.	Per cent.
5 and 6.....	15	2	13.3	200	31	15.5
7 and 8.....	50	9	18.0	403	56	13.9
9 and 10.....	126	15	11.9	377	42	11.1
11 and 12.....	125	20	16.0	348	31	8.9
13 and 14.....	135	7	5.2	274	12	4.4
15 and 16.....	61	3	4.9	189	7	3.7
17 and 18.....	19	0	0.0	57	3	5.3
19 and 20.....	3	0	0.0	12	0	0.0
Total.....	534	56	10.5	1,860	182	9.8

#### Summary.

The following conclusions seem warranted as applying to the cases considered in this study:

Age apparently is the predominating factor in the prevalence of folliculosis. For children of school age the peak of the curve of prevalence occurs at the time of admission to school. From this maximum incidence at 5 and 6 years of age there is a constant and rapid decrease, so that we find the affection disappearing before the child leaves high school; in fact, approximately 90 per cent of the cases had cleared up by the time of completion of grammar school.

There is apparently a correlation between folliculosis and tonsillar pathology. Whether folliculosis is a direct secondary result of tonsil infection, or whether certain children show a predilection to generalized lymphoid hyperplasia was not shown in this study.

There is no evidence that folliculosis is influenced by the social or economic status of the wage earner or by sex; and, contrary to general opinion, the state of nutrition showed no bearing on its prevalence.

The size of the family, as measured by the number of children attending school, is of no influence, but rather the age of the school-attending members is the deciding factor.

There seems to be no relation between errors in refraction (myopia or astigmatism) and folliculosis. Our study did not show the influence of wearing glasses on folliculosis.

From the foregoing study of folliculosis it seems reasonable to conclude that it is an affection of early childhood, occurring somewhat more frequently in children with hypertrophied tonsils, developing no symptoms, running a very brief course as compared with trachoma, and disappearing spontaneously without sequelæ.

**References.**

- (1) McMullen, John: Trachoma. A Public Health Problem of the States. *Jour. A. M. A.*, 75: 1109, Oct. 23, 1920.
- (2) Lamb, H. D.: Blindness in Missouri. *Jour. A. M. A.*, 79: 1305, Oct. 14, 1922.

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**TUBERCULOSIS MORTALITY IN COLORADO.**

It is well known that the mortality rates from tuberculosis in certain western States have been greatly affected by the immigration of tuberculous persons, who frequently arrive in the last stages of the disease. A study made by a committee commissioned by the National Research Council and approved by the Governor of Colorado has given definite statistical knowledge on this subject, so far as Colorado is concerned. The report of the study is published in the *American Review of Tuberculosis* and reprinted by the National Research Council.<sup>1</sup>

Certificates of deaths attributed to tuberculosis were studied covering a period of 13 years—23,608 certificates in all. Where there was any ambiguity in the information on the certificate, a letter was sent to the physician who had prepared it, to secure, if possible, the missing data. In only 3,044 out of the total number of certificates was it impossible to determine whether the disease developed in Colorado or not.

The average death rate for tuberculosis (all forms) in Colorado for the period of this study (1908–1920) was 208.9 per 100,000 persons, against 147.5 for the registration area of the United States during the same period. However, when the number of deaths of persons whose cases arose outside of the State was deducted, a striking difference was noted. These deaths numbered 17,080. Deaths of individuals whose cases were known to have developed in Colorado numbered 3,484, giving a rate of 30.8 per 100,000. This rate is evidently somewhat too low, because no account has been taken of the deaths of persons for whom the place of development of the disease was unknown. But even including these deaths, the rate would offer a remarkable contrast with that for the registration area.

One point brought out in the study is the large number of deaths occurring within a very short time after the patient arrives in Colorado. From 1908 to 1920 the total number who died within three months after arrival in Colorado was 4,848, and the number who died within one year after arrival, 9,539. The report protests against

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<sup>1</sup> A Statistical Study of Tuberculosis Mortality in Colorado for the Thirteen Years 1908 to 1920. Conducted by a committee of the Denver Sanatorium Association, under a grant from the National Research Council, and with the cooperation of the Colorado State Board of Health. *The American Review of Tuberculosis*, Vol. VII, No. 6, August, 1923. Reprinted by the National Research Council, Reprint and Circular Series, No. 47.

the practice, common alike to individuals and organizations throughout the more populous areas of the country, of sending away from home tuberculous persons so far advanced in disease as these figures show, especially since so many of them are indigent. It is suggested that the large number of deaths so soon after arrival is due partly to overexercise, more or less united with privations and worry, on the part of immigrants who have active disease and who do not allow themselves a period of rest for acclimatization to an environment which specifically stimulates to exercise and at the same time renders reaction to it more acute.

The committee hopes that future investigation will furnish data as to the numbers of male and female tuberculous persons who enter the State each year. Such information is required for a thorough statistical study of the subject.

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### VITAL STATISTICS FOR ENGLAND AND WALES, 1922.

The following information regarding the vital statistics record for England and Wales for the year 1922 is taken from a summary of Part I of the Registrar General's Statistical Review for 1922, published in The Medical Officer for November 10, 1923.

The salient features of the year's record are briefly summarized as follows: The lowest birth rate recorded in any year, excepting the war years 1917, 1918, and 1919; the lowest death rate, excepting the years 1920 and 1921; and the lowest infant mortality ever recorded.

*Births.*—The births numbered 780,124, giving a birth rate of 20.4 per 1,000 population. This number was 68,690 less than that for 1921, and, excepting the years 1917, 1918, and 1919, was the lowest number recorded since 1869, when the population was approximately 22,000,000 as against 38,000,000 in 1922.

Before the war the proportion of male to female births was 1,038 to 1,000; but from 1916 on the plurality of males over females has showed a decided increase, the average ratio for the five years from 1916 to 1920 being as high as 1,051 to 1,000, at which figure it remained in 1921. The proportion fell slightly in 1922 to 1,049 to 1,000.

The proportion of illegitimate to total births fell slightly, from 45 per 1,000 in 1921 to 44 per 1,000 in 1922.

*Deaths.*—The deaths in 1922 numbered 486,229, equivalent to a death rate of 12.8 per 1,000 population, an increase in number of 27,600 over 1921, which year had the lowest death rate on record. If the population is standardized to the sex and age composition obtaining in 1901, the rate is reduced to 11.9.

The number of deaths in males exceeded that in females, the actual numbers being 246,670 males and 239,559 females, or a ratio of 1,029

males to 1,000 females. As there is a large excess of females over males in the general population, this ratio does not give a true proportion. The actual death rate for males was 13.6 per 1,000 population, and that for females 12.0, giving an actual ratio of about 1,130 to 1,000.

*Infant mortality rate.*—A most favorable record for 1922 is shown in the infant mortality rate of 77 per 1,000 births, the lowest ever recorded, the rate of 80 for the year 1920 being the lowest previously on record. The progress made in saving the lives of infants is shown more clearly by going back to the beginning of the present century. In 1901 the rate was 151, or nearly double that for 1922. The importance of this saving of infant life may be more fully appreciated when it is noted that in 1901 the actual number of births was 150,000 more than in 1922, whereas the actual number of survivors in 1922 was only 60,000 less than that in 1901. Thus, by reducing the infantile death rate, more than half of the decline in the number of births has been made up.

*Causes of death.*—The most important single cause of the increased death rate for 1922 over that for 1921 was stated to be influenza, which was held responsible for 21,498 deaths in 1922 as against 8,995 in 1921, accounting for nearly one-half of the total increase in the number of deaths. Diseases of the heart caused 59,837 deaths, an increase of 6,127 over the number for 1921; bronchitis caused 40,912 deaths as compared with 33,684 in 1921; and the pneumonia deaths numbered 40,930 as compared with 34,708 for 1921.

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## AUTOMOBILE FATALITIES IN THE UNITED STATES, 1917-1922.

The Department of Commerce announces that the returns compiled by the Bureau of the Census show that during the year 1922 11,666 deaths resulting from accidents caused by automobiles and other motor vehicles (excluding motor cycles) occurred within the death registration area of the United States (exclusive of Hawaii), which area contains 85 per cent of the total population. This number represents a death rate of 12.5 per 100,000 population, as against 11.5 in 1921, 10.4 in 1920, 9.4 in 1919, 9.3 in 1918, and 9 in 1917. In the 27 States for which data for 1917 are available the actual number of these deaths increased from 6,014 in that year to 9,581 in 1922, the corresponding rates for these two years being 8.7 and 12.9.

*Deaths and death rates in the registration area (exclusive of Hawaii), registration States, and 67 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles, 1917 to 1922.*

[No data are available to show how many of the deaths credited to any State or city occurred among the residents of that State or city or resulted from accidents which occurred in that State or city.]

Area.	Number of deaths.						Rate per 100,000 population. <sup>1</sup>					
	1922	1921	1920	1919	1918	1917	1922	1921	1920	1919	1918	1917
Registration area.....	11,666	10,168	9,103	7,968	7,525	6,724	12.5	11.5	10.4	9.4	9.3	9.0
Registration States <sup>2</sup> .....	11,466	9,903	8,878	7,771	7,310	6,064	12.5	11.4	10.3	9.3	9.2	8.7
California.....	960	876	734	647	545	558	26.0	24.4	21.1	19.2	16.7	17.7
Colorado.....	159	121	117	118	120	95	16.3	12.6	12.4	12.7	13.1	10.5
Connecticut.....	216	220	218	207	184	192	14.9	15.5	15.6	15.1	13.7	14.6
Delaware.....	24	17	22	23	(*)	(*)	10.5	7.5	9.8	10.4	(*)	(*)
Florida.....	122	104	104	58	(*)	(*)	11.9	10.4	10.6	6.1	(*)	(*)
Georgia.....	215	(*)	(*)	(*)	(*)	(*)	7.2	(*)	(*)	(*)	(*)	(*)
Idaho.....	21	(*)	(*)	(*)	(*)	(*)	4.6	(*)	(*)	(*)	(*)	(*)
Illinois.....	1,003	837	728	522	466	(*)	15.0	13.4	11.2	8.1	7.3	(*)
Indiana.....	306	266	248	187	177	201	10.2	9.0	8.4	6.4	6.1	7.0
Kansas.....	175	166	155	98	132	106	9.8	9.3	8.7	5.6	7.5	6.1
Kentucky.....	128	105	85	71	92	63	5.2	4.3	3.5	2.9	3.8	2.6
Louisiana.....	104	97	90	57	78	(*)	5.7	5.3	5.0	3.2	4.4	(*)
Maine.....	79	56	43	45	41	31	10.2	7.3	5.6	5.9	5.4	4.1
Maryland.....	224	177	142	153	167	138	15.0	12.0	9.7	10.6	11.7	9.8
Massachusetts.....	496	523	454	524	488	387	12.5	13.3	11.7	13.7	12.9	10.4
Michigan.....	574	441	419	318	257	328	14.8	11.6	11.3	8.8	7.3	9.5
Minnesota.....	260	216	178	171	185	161	10.5	8.9	7.4	7.2	7.9	7.0
Mississippi.....	60	46	39	41	(*)	(*)	3.4	2.6	2.2	2.3	(*)	(*)
Missouri.....	321	276	231	244	241	230	9.4	8.1	6.8	7.2	7.1	6.8
Montana.....	48	48	45	44	64	59	8.1	8.3	8.1	8.1	12.3	11.7
Nebraska.....	131	104	104	(*)	(*)	(*)	9.9	7.9	8.0	(*)	(*)	(*)
New Hampshire.....	49	38	50	38	22	35	11.0	8.5	11.3	8.6	5.0	8.0
New Jersey.....	543	484	405	424	393	345	16.4	14.9	12.7	13.6	12.8	11.5
New York.....	1,788	1,632	1,410	1,354	1,251	1,092	16.7	15.4	13.5	13.1	12.3	10.9
North Carolina.....	169	139	133	104	79	66	6.4	5.3	5.2	4.1	3.2	2.7
Ohio.....	818	734	717	631	661	608	13.6	12.4	12.3	11.1	11.8	11.0
Oregon.....	113	103	87	70	68	(*)	13.9	12.9	11.0	9.0	8.9	(*)
Pennsylvania.....	1,260	1,060	1,042	818	855	814	14.0	11.9	11.9	9.4	10.0	9.6
Rhode Island.....	93	83	78	87	70	58	15.0	13.5	12.8	14.5	11.8	9.9
South Carolina.....	76	74	91	73	62	32	4.4	4.3	5.4	4.4	3.7	2.0
Tennessee.....	160	134	130	100	82	69	6.7	5.7	5.5	4.3	3.5	3.0
Utah.....	59	53	51	37	46	32	12.6	11.5	11.3	8.3	10.5	7.4
Vermont.....	39	23	30	21	13	14	11.1	6.5	8.5	6.0	3.7	4.0
Virginia.....	137	140	97	116	103	54	5.8	6.0	4.2	5.1	4.5	2.4
Washington.....	173	202	184	148	158	118	12.3	14.5	13.5	11.0	11.9	9.1
Wisconsin.....	271	205	167	164	155	128	10.0	7.7	6.3	6.3	6.0	5.0
Wyoming.....	28	(*)	(*)	(*)	(*)	(*)	13.5	(*)	(*)	(*)	(*)	(*)
Total, 67 cities.....	4,891	4,415	4,116	3,807	3,609	3,207	17.2	15.8	15.0	14.1	13.7	12.5
Akron.....	25	31	39	32	32	34	12.0	14.9	18.1	15.9	17.1	19.6
Albany.....	21	31	13	23	11	17	18.1	26.9	11.4	20.4	9.9	15.4
Atlanta.....	54	38	44	43	20	30	24.7	18.3	21.7	21.7	10.3	15.9
Baltimore.....	130	100	97	106	104	80	17.1	13.3	13.1	14.6	16.7	13.0
Birmingham.....	31	42	23	21	23	11	16.2	22.6	12.7	11.8	13.3	6.6
Boston.....	129	108	80	125	109	84	16.0	13.6	11.8	16.8	14.8	11.5
Bridgeport.....	28	28	30	33	22	30	19.5	19.5	20.6	23.3	16.0	22.6
Buffalo.....	106	81	104	68	90	83	20.1	15.6	20.4	13.5	18.2	17.1
Cambridge.....	16	17	22	21	14	15	14.4	17.2	20.0	19.2	12.9	13.8
Canzden.....	34	27	21	26	24	11	27.9	22.6	17.9	22.6	21.2	9.9
Chicago.....	623	569	472	328	308	310	22.0	20.5	17.3	12.3	11.7	12.1
Cincinnati.....	76	79	57	67	59	57	18.8	19.6	14.2	16.7	14.8	14.3
Cleveland.....	142	148	155	126	168	137	16.6	17.8	19.2	16.0	22.0	13.6
Columbus.....	37	43	31	40	40	30	14.5	17.4	12.9	17.1	17.5	13.4
Dallas.....	27	27	29	19	13	21	15.7	16.3	18.0	12.1	10.0	16.6
Dayton.....	27	15	25	16	23	19	16.7	9.5	16.2	10.6	15.6	13.3
Denver.....	56	43	37	41	43	23	20.9	16.3	14.3	16.1	17.2	9.4
Detroit.....	176	133	175	139	125	157	17.7	13.4	17.2	14.4	13.7	18.2
Fall River.....	13	13	12	9	14	12	10.8	10.8	10.0	7.5	11.6	10.0
Fort Worth.....	16	(*)	(*)	(*)	(*)	(*)	13.2	(*)	(*)	(*)	(*)	(*)
Grand Rapids.....	23	15	16	16	9	14	16.0	10.6	11.5	11.7	6.7	10.6
Hartford.....	31	31	36	38	28	31	22.5	22.5	25.7	27.9	21.2	24.2
Houston.....	27	25	8	14	13	15	18.0	17.3	5.7	10.3	10.6	12.7
Indianapolis.....	47	40	36	26	27	31	14.0	12.3	11.3	8.4	8.9	10.5
Jersey City.....	36	36	43	40	30	23	11.8	11.9	14.3	13.5	10.2	7.9
Kansas City, Kans.....	18	12	11	11	9	9	15.8	11.6	10.8	11.0	9.2	9.3
Kansas City, Mo.....	63	67	56	42	64	56	18.3	19.9	17.1	13.1	20.5	18.4

<sup>1</sup> The rate is based on total population and all deaths occurring within the given area.

<sup>2</sup> Including District of Columbia.

<sup>3</sup> Not added to the registration area until a later date

Deaths and death rates in the registration area (exclusive of Hawaii), registration States, and 67 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles, 1917 to 1922—Continued.

Area.	Number of deaths.						Rate per 100,000 population.					
	1922	1921	1920	1919	1918	1917	1922	1921	1920	1919	1918	1917
Los Angeles.....	187	165	142	119	91	102	29.5	27.1	24.1	21.1	16.8	19.8
Louisville.....	42	35	28	19	28	22	16.4	14.8	11.9	8.1	12.0	9.4
Lowell.....	6	21	8	21	22	14	5.2	18.5	7.1	18.7	19.7	12.6
Memphis.....	42	25	43	26	19	23	25.0	15.1	26.3	17.4	12.9	15.8
Milwaukee.....	65	52	50	60	48	42	13.6	11.1	12.8	13.2	10.8	9.6
Minneapolis.....	71	49	41	38	44	43	17.7	12.5	10.7	10.1	11.9	11.9
Nashville.....	20	24	19	18	14	13	16.6	19.7	16.0	15.3	12.0	11.2
New Bedford.....	21	9	11	15	16	12	16.5	7.2	9.0	12.5	13.6	10.4
New Haven.....	33	21	29	24	28	22	19.4	12.6	17.7	14.9	17.7	14.2
New Orleans.....	46	43	50	36	29	45	11.5	10.9	12.8	9.4	7.6	12.0
New York.....	896	835	773	780	699	551	15.3	15.4	13.6	14.0	12.7	10.2
Bronx Borough.....	81	106	73	78	78	62	10.0	13.6	9.8	10.9	11.4	9.5
Brooklyn Borough.....	266	279	251	266	198	167	12.6	13.4	12.3	13.3	10.1	8.7
Manhattan Borough.....	463	420	385	368	367	272	20.4	18.4	16.9	16.1	16.0	11.8
Queens Borough.....	68	65	47	44	47	34	13.2	13.1	9.8	9.6	10.7	8.1
Richmond Borough.....	16	15	17	24	9	16	14.5	12.4	14.4	20.9	8.0	14.7
Newark, N. J.....	81	68	77	82	62	62	18.8	16.9	18.4	19.9	15.3	15.6
Norfolk.....	11	22	20	24	14	4	8.8	18.1	17.0	21.1	12.7	3.8
Oakland.....	41	35	28	35	24	21	17.6	15.5	12.7	16.4	11.6	10.5
Omaha.....	24	23	41	28	26	23	12.0	11.7	21.2	14.8	14.0	12.6
Paterson.....	34	32	18	27	20	19	24.5	23.3	13.2	19.9	14.9	14.3
Philadelphia.....	267	190	226	191	228	169	14.1	10.2	12.3	10.6	12.8	9.6
Pittsburgh.....	123	107	98	94	105	100	20.2	17.8	16.6	16.1	18.1	17.4
Portland, Oreg.....	40	38	34	31	33	30	14.0	14.3	13.1	12.1	13.1	12.1
Providence.....	51	39	35	46	40	27	21.2	16.3	14.7	19.4	17.0	11.5
Reading.....	13	16	25	10	8	7	11.8	14.7	23.1	9.3	7.5	6.6
Richmond.....	20	19	12	10	9	10	11.2	10.8	6.9	5.9	5.4	6.1
Rochester.....	52	42	34	32	25	21	16.7	13.8	11.4	10.9	9.1	7.8
St. Louis.....	134	119	104	105	95	73	16.9	15.1	13.4	13.7	12.5	9.7
St. Paul.....	36	34	30	23	27	24	15.0	14.3	12.7	9.8	11.7	10.5
Salt Lake City.....	24	18	23	13	19	16	19.4	14.8	19.3	11.1	16.8	14.4
San Antonio.....	28	33	21	14	23	26	15.7	19.3	12.7	8.9	15.2	18.0
San Francisco.....	118	94	88	85	74	72	22.3	18.1	17.2	16.9	15.0	14.9
Scranton.....	29	25	21	20	16	14	20.7	18.0	15.2	14.6	11.7	10.3
Seattle.....	44	44	41	50	40	29	13.9	14.0	12.8	16.1	13.2	9.8
Spokane.....	10	19	18	12	10	8	9.6	13.2	17.2	11.6	9.6	7.7
Springfield, Mass.....	17	23	17	22	23	18	12.1	16.9	12.9	17.3	18.6	15.1
Syracuse.....	36	34	25	23	22	20	19.9	19.2	14.4	13.5	13.2	12.3
Toledo.....	45	37	44	34	32	26	17.3	14.6	17.8	14.2	13.8	11.5
Trenton.....	27	26	17	15	16	14	21.6	21.2	14.1	12.7	13.8	12.3
Washington, D. C.....	64	53	50	58	55	50	14.6	12.1	11.3	13.4	13.1	12.2
Wilmington, Del.....	15	10	14	18	18	22	13.0	8.8	12.6	16.8	17.1	21.4
Worcester.....	26	37	24	25	30	27	13.8	20.0	13.2	14.0	17.2	15.8
Yonkers.....	13	17	11	18	15	10	12.3	16.5	10.9	18.2	15.5	10.5
Youngstown.....	27	36	36	36	40	36	20.4	25.7	26.7	27.7	31.9	30.0

**DEATHS DURING WEEK ENDED NOVEMBER 24, 1923.**

Summary of information received by telegraph from industrial insurance companies for week ended November 24, 1923, and corresponding week of 1922. (From the Weekly Health Index, November 27, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Nov. 24, 1923.	Corresponding week, 1922.
Policies in force.....	55,670,715	51,357,688
Number of death claims.....	10,361	9,043
Death claims per 1,000 policies in force, annual rate.....	9.7	9.2

Deaths from all causes in certain large cities of the United States during the week ended November 24, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 27, 1923, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended Nov. 24, 1923.		Annual death rate per 1,000, corre- sponding week, 1922.	Deaths under 1 year.		Infant mor- tality rate, week ended Nov. 24, 1923. <sup>3</sup>
	Total deaths.	Death rate. <sup>1</sup>		Week ended Nov. 24, 1923.	Corre- sponding week, 1922.	
Total.....	6,837	12.1	12.2	800	804	.....
Akron, Ohio.....	32	8.0	4.5	8	3	95
Albany, N. Y. <sup>2</sup> .....	39	17.3	15.3	3	1	66
Atlanta, Ga.....	95	22.2	16.1	11	5	74
Baltimore, Md. <sup>2</sup> .....	212	14.3	12.2	25	29	.....
Birmingham, Ala.....	44	11.7	12.3	7	8	77
Boston, Mass.....	194	13.1	15.4	27	33	97
Bridgeport, Conn.....	32	11.6	10.2	7	2	88
Buffalo, N. Y.....	137	13.3	13.0	21	16	71
Cambridge, Mass.....	27	12.6	9.9	4	3	50
Camden, N. J. <sup>2</sup> .....	32	13.4	18.8	3	4	67
Chicago, Ill. <sup>2</sup> .....	549	9.9	10.8	75	62	66
Cincinnati, Ohio.....	120	15.4	15.1	10	6	60
Cleveland, Ohio. <sup>2</sup> .....	221	13.0	9.9	22	22	10
Columbus, Ohio.....	63	12.6	13.0	1	4	66
Dallas, Tex.....	42	12.4	11.5	7	8	66
Dayton, Ohio.....	36	11.3	11.0	4	4	.....
Denver, Colo.....	86	16.5	18.1	5	4	.....
Des Moines, Iowa.....	27	10.0	.....	0	.....	70
Detroit, Mich.....	217	11.4	10.8	35	40	68
Duluth, Minn.....	22	10.8	.....	3	.....	102
Erie, Pa.....	21	9.7	9.5	5	5	114
Fall River, Mass. <sup>2</sup> .....	33	14.2	23.7	8	9	99
Flint, Mich.....	13	5.7	6.1	5	2	.....
Fort Worth, Tex.....	23	8.3	10.9	1	3	16
Grand Rapids, Mich.....	35	12.5	9.8	1	4	.....
Houston, Tex.....	36	12.1	9.7	7	4	77
Indianapolis, Ind.....	100	15.2	13.5	10	10	.....
Jacksonville, Fla.....	26	13.6	18.7	2	4	40
Jersey City, N. J.....	73	12.3	11.3	6	9	46
Kansas City, Kans.....	38	17.1	8.7	2	3	.....
Kansas City, Mo.....	85	12.6	12.1	6	10	131
Los Angeles, Calif.....	221	17.3	15.0	35	11	43
Louisville, Ky.....	82	16.6	12.4	4	6	70
Lowell, Mass.....	29	13.1	11.8	4	4	26
Lynn, Mass.....	18	9.1	14.4	1	1	.....
Memphis, Tenn.....	58	17.8	18.3	8	6	79
Milwaukee, Wis.....	87	9.4	9.3	16	11	43
Minneapolis, Minn.....	70	8.9	10.7	8	6	.....
Nashville, Tenn. <sup>2</sup> .....	34	14.6	17.3	3	9	109
New Bedford, Mass.....	34	13.6	11.9	7	7	0
New Haven, Conn.....	39	11.8	11.7	0	5	.....
New Orleans, La.....	145	18.7	16.4	16	18	59
New York, N. Y.....	1,248	11.0	11.0	148	146	35
Bronx Borough.....	123	7.6	9.7	10	11	57
Brooklyn Borough.....	406	9.8	10.6	54	54	67
Manhattan Borough.....	572	13.2	12.0	69	66	70
Queens Borough.....	107	10.4	9.9	13	12	36
Richmond Borough.....	40	16.4	12.2	2	3	.....

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

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

<sup>3</sup> Deaths for week ended Friday, Nov. 23, 1923.



Deaths from all causes in certain large cities of the United States during the week ended November 24, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 27, 1923, issued by the Bureau of the Census, Department of Commerce)—Continued.

City.	Week ended Nov. 24, 1923.		Annual death rate per 1,000, corre- sponding week, 1922.	Deaths under 1 year.		Infant mortal- ity rate, week ended Nov. 24, 1923. <sup>2</sup>
	Total deaths.	Death rate. <sup>1</sup>		Week ended Nov. 24, 1923.	Corre- sponding week, 1922.	
Newark, N. J.....	68	8.1	12.6	12	12	56
Norfolk, Va.....	26	8.5	7.9	5	1	88
Oakland, Calif.....	52	11.3	12.7	4	3	51
Omaha, Nebr.....	57	14.5	12.7	7	4	76
Paterson, N. J.....	38	14.2	13.6	2	7	32
Philadelphia, Pa.....	457	12.4	13.5	46	74	60
Pittsburgh, Pa.....	150	12.8	15.4	26	27	90
Portland, Oreg.....	64	12.2	10.7	3	3	30
Providence, R. I.....	48	10.3	11.9	2	5	16
Richmond, Va.....	47	13.5	21.6	14	14	172
Rochester, N. Y.....	62	10.2	10.4	8	12	63
St. Louis, Mo.....	201	13.0	12.1	16	12	.....
St. Paul, Minn.....	49	10.6	10.0	1	3	9
Salt Lake City, Utah <sup>2</sup> .....	36	14.9	11.8	5	7	81
San Antonio, Tex.....	47	13.3	12.6	6	9	.....
San Francisco, Calif.....	141	13.6	14.9	11	7	66
Seattle, Wash.....	62	10.3	8.9	6	3	53
Spokane, Wash.....	20	10.0	11.0	1	2	22
Springfield, Mass.....	26	9.4	8.9	3	2	43
Syracuse, N. Y.....	42	11.9	11.8	5	4	65
Toledo, Ohio.....	55	10.7	12.2	3	5	30
Trenton, N. J.....	48	19.6	18.8	4	7	68
Utica, N. Y.....	21	10.6	.....	4	.....	35
Washington, D. C.....	121	14.4	15.0	11	16	63
Wilmington, Del.....	27	12.0	12.2	3	5	61
Worcester, Mass.....	49	13.3	11.1	4	7	46
Yonkers, N. Y.....	19	9.2	10.9	2	4	43
Youngstown, Ohio.....	29	11.4	9.8	5	2	68

<sup>1</sup> Deaths for week ended Friday, Nov. 23, 1923.





MAINE—continued.

	Cases.
Pneumonia.....	5
Scarlet fever.....	31
Tuberculosis.....	9
Typhoid fever.....	6
Whooping cough.....	59

MARYLAND.<sup>1</sup>

Cerebrospinal meningitis.....	1
Chicken pox.....	80
Diphtheria.....	53
Dysentery.....	2
Influenza.....	35
Measles.....	41
Mumps.....	1
Paratyphoid fever.....	1
Pneumonia (all forms).....	67
Poliomyelitis.....	2
Scarlet fever.....	88
Septic sore throat.....	1
Smallpox.....	1
Tetanus.....	1
Tuberculosis.....	38
Typhoid fever.....	28
Whooping cough.....	60

MASSACHUSETTS.

Anthrax.....	1
Cerebrospinal meningitis.....	2
Chicken pox.....	302
Conjunctivitis (suppurative).....	11
Diphtheria.....	200
Dysentery.....	1
German measles.....	5
Influenza.....	6
Measles.....	266
Mumps.....	154
Ophthalmia neonatorum.....	23
Pellagra.....	2
Pneumonia (lobar).....	68
Poliomyelitis.....	7
Scarlet fever.....	254
Septic sore throat.....	2
Tetanus.....	1
Trichinosis.....	2
Tuberculosis (all forms).....	92
Typhoid fever.....	7
Whooping cough.....	89

MICHIGAN.

Diphtheria.....	255
Measles.....	325
Pneumonia.....	101
Scarlet fever.....	331
Smallpox.....	73
Tuberculosis.....	81
Typhoid fever.....	18
Whooping cough.....	66

MINNESOTA.

Cerebrospinal meningitis.....	1
Chicken pox.....	122
Diphtheria.....	121
Influenza.....	1
Measles.....	184
Pneumonia.....	4

MINNESOTA—continued.

	Cases.
Scarlet fever.....	284
Smallpox.....	29
Tuberculosis.....	31
Typhoid fever.....	4
Whooping cough.....	4

MISSISSIPPI.

Diphtheria.....	30
Poliomyelitis.....	1
Scarlet fever.....	20
Smallpox.....	3
Typhoid fever.....	2

MISSOURI.

Chicken pox.....	54
Diphtheria.....	105
Influenza.....	10
Measles.....	259
Mumps.....	12
Ophthalmia neonatorum.....	1
Pneumonia.....	18
Poliomyelitis.....	1
Scarlet fever.....	157
Smallpox.....	15
Trachoma.....	93
Tuberculosis.....	53
Typhoid fever.....	10
Whooping cough.....	52

MONTANA.

Diphtheria.....	9
Scarlet fever.....	29
Smallpox.....	20
Typhoid fever.....	6

NEW JERSEY.

Cerebrospinal meningitis.....	2
Chicken pox.....	217
Diphtheria.....	160
Influenza.....	12
Measles.....	160
Pneumonia.....	94
Poliomyelitis.....	8
Scarlet fever.....	83
Smallpox.....	1
Trichinosis.....	1
Typhoid fever.....	5
Whooping cough.....	38

NEW MEXICO.

Chicken pox.....	4
Diphtheria.....	8
Influenza.....	1
Measles.....	7
Mumps.....	7
Pneumonia.....	3
Scarlet fever.....	4
Tuberculosis.....	17
Typhoid fever.....	7
Whooping cough.....	3

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis.....	3
Diphtheria.....	211

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

**NEW YORK—continued.**

	Cases.
Influenza.....	14
Lethargic encephalitis.....	2
Measles.....	799
Pneumonia.....	152
Polioomyelitis.....	5
Scarlet fever.....	278
Smallpox.....	13
Typhoid fever.....	25
Whooping cough.....	289

**NORTH CAROLINA.**

Cerebrospinal meningitis.....	4
Chicken pox.....	118
Diphtheria.....	118
Measles.....	752
Scarlet fever.....	88
Septic sore throat.....	2
Smallpox.....	54
Typhoid fever.....	9
Whooping cough.....	310

**OREGON.**

Chicken pox.....	38
Diphtheria:	
Portland.....	24
Scattering.....	12
Measles.....	600
Mumps.....	2
Pneumonia.....	110
Scarlet fever.....	19
Smallpox.....	19
Tuberculosis.....	8
Typhoid fever.....	8
Whooping cough.....	2

**SOUTH DAKOTA.**

Chicken pox.....	15
Diphtheria.....	6
Measles.....	38
Mumps.....	11
Pneumonia.....	1
Scarlet fever.....	20
Tuberculosis.....	2
Whooping cough.....	11

**TEXAS.**

Chicken pox.....	25
Dengue.....	2
Diphtheria.....	45
Influenza.....	8
Measles.....	183
Mumps.....	7
Paratyphoid fever.....	1
Pneumonia.....	4
Scarlet fever.....	30
Smallpox.....	1
Tuberculosis.....	4
Typhoid fever.....	25
Whooping cough.....	15

**VERMONT.**

Chicken pox.....	37
Diphtheria.....	7

**VERMONT—continued.**

	Cases.
Measles.....	17
Mumps.....	3
Scarlet fever.....	9
Smallpox.....	10
Whooping cough.....	60

**VIRGINIA.**

Smallpox:	
Amelia County.....	1

**WASHINGTON.**

Chicken pox.....	85
Diphtheria.....	31
Measles:	
Clarke County.....	56
King County.....	17
Spokane County.....	17
Thurston County.....	26
Yakima County.....	12
Seattle.....	105
Spokane.....	200
Yakima.....	85
Scattering.....	21
Mumps.....	43
Pneumonia.....	3
Scarlet fever.....	41
Smallpox:	
Spokane.....	17
Scattering.....	17
Tuberculosis.....	1
Typhoid fever.....	12
Whooping cough.....	7

**WEST VIRGINIA.**

Diphtheria.....	17
Scarlet fever.....	34
Typhoid fever.....	2

**WISCONSIN.**

Milwaukee:	
Cerebrospinal meningitis.....	1
Chicken pox.....	68
Diphtheria.....	40
Measles.....	2
Pneumonia.....	5
Scarlet fever.....	11
Smallpox.....	1
Tuberculosis.....	2
Typhoid fever.....	1
Whooping cough.....	29
Scattering:	
Cerebrospinal meningitis.....	1
Chicken pox.....	245
Diphtheria.....	148
Influenza.....	21
Measles.....	282
Pneumonia.....	15
Scarlet fever.....	223
Smallpox.....	4
Tuberculosis.....	44
Typhoid fever.....	9
Whooping cough.....	140

<sup>1</sup> Deaths.

Reports for Week Ended November 24, 1923.

DISTRICT OF COLUMBIA.		Cases.	NEBRASKA—continued.		Cases.
Chicken pox.....		72	Smallpox.....		7
Diphtheria.....		18	Tuberculosis.....		1
Measles.....		5	Typhoid fever.....		1
Scarlet fever.....		25	Whooping cough.....		1
Smallpox.....		4			
Tuberculosis.....		21			
Typhoid fever.....		3			
Whooping cough.....		11			
NEBRASKA.			NORTH DAKOTA.		
Chicken pox.....		28	Chicken pox.....		2
Diphtheria.....		37	Diphtheria.....		23
Measles.....		87	Measles.....		80
Mumps.....		13	Pneumonia.....		3
Poliomyelitis.....		3	Scarlet fever.....		35
Scarlet fever.....		57	Smallpox.....		5
			Tuberculosis.....		7
			Typhoid fever.....		6
			Whooping cough.....		8

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>October, 1923.</i>										
Delaware.....		11		6	25			71		18
Hawaii.....	4	20	113		9		1	2		17
Kansas.....		420	1		322		19	436	33	76
Montana.....	3	49	5		305		1	59	62	16
Oregon.....	2	131	1		413			73	36	39

OUTBREAK OF TYPHOID FEVER IN CHICAGO.

Dr. Isaac D. Rawlings, director of health of Illinois and collaborating epidemiologist of the United States Public Health Service, under date of November 28, reports further upon an outbreak of typhoid fever in a certain district in Chicago as follows:

“In communication with the commissioner of health of Chicago, I learned that during the past week or 10 days there have been over 100 cases of typhoid reported in Chicago. Some 15 cases were reported to this department as occurring in Chicago yesterday, which is the highest number to date for any single day.”

Doctor Rawlings states that assurance has been given that everything possible is being done to trace the source, the water supplied by the Sixty-eighth Street pumping station being at the time of his writing under investigation, most of the cases having occurred in the area supplied by this station.

**CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923.**

**CEREBROSPINAL MENINGITIS.**

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

City.	Median for previous years.	Week ended Nov. 17, 1923.		City.	Median for previous years.	Week ended Nov. 17, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				New Jersey:			
Los Angeles.....	0	1		Newark.....	0		1
San Francisco.....	0		1	New York:			
District of Columbia:				New York.....	3	2	
Washington.....	0	1	1	Ohio:			
Illinois:				Cincinnati.....	0	1	1
Chicago.....	2	1		Cleveland.....	0	1	
Kansas:				Columbus.....	0		1
Parsons.....		1		Pennsylvania:			
Louisiana:				Philadelphia.....	0	1	
New Orleans.....	0	1	1	Pittsburgh.....	0	1	1
Massachusetts:				Wilkes-Barre.....	0	1	
Lowell.....	0	1	1	Texas:			
Webster.....	0	1		San Antonio.....	0		1
Michigan:				West Virginia:			
Detroit.....	0	1		Charleston.....	0		1
Missouri:				Wisconsin:			
Cape Girardeau.....	0		1	Milwaukee.....	0	1	
Kansas City.....	0	1	1				
St. Louis.....	1	1					

**DENGUE.**

City.	Cases.	Deaths.
Texas:		
Dallas.....	1	
San Antonio.....		1

**DIPHTHERIA.**

See p. 2905; also Current State summaries, p. 2894, and Monthly summaries by States, p. 2893.

**INFLUENZA.**

City.	Cases.		Deaths, week ended Nov. 17, 1923.	City.	Cases.		Deaths, week ended Nov. 17, 1923.
	Week ended Nov. 18, 1922.	Week ended Nov. 17, 1923.			Week ended Nov. 18, 1922.	Week ended Nov. 17, 1923.	
Alabama:				Illinois:			
Birmingham.....	1	5	2	Chicago.....	17	13	2
California:				Danville.....	1		
Long Beach.....		1		Decatur.....		1	
Los Angeles.....		8		Indiana:			
Oakland.....	2	1	1	Indianapolis.....			1
San Francisco.....	1	2	1	Kentucky:			
Stockton.....		5		Louisville.....	1		
Connecticut:				Louisiana:			
New Haven.....			1	New Orleans.....	2	2	2
Waterbury.....		1	2	Maryland:			
Delaware:				Baltimore.....	21	21	2
Wilmington.....		1		Cumberland.....		3	
District of Columbia:				Massachusetts:			
Washington.....		1		Boston.....	2		
Georgia:				Brookline.....	1		
Atlanta.....		3	2	Cambridge.....	4		
Savannah.....		2		Fall River.....		1	

CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

INFLUENZA—Continued.

City.	Cases.		Deaths, week ended Nov. 17, 1923.	City.	Cases.		Deaths, week ended Nov. 17, 1923.
	Week ended Nov. 18, 1922.	Week ended Nov. 17, 1923.			Week ended Nov. 18, 1922.	Week ended Nov. 17, 1923.	
<b>Massachusetts—Contd.</b>				<b>New York:</b>			
Haverhill.....	1			Amsterdam.....		1	
Lynn.....		1	1	Buffalo.....		2	
Methuen.....	1			Jamestown.....	1	2	
Quincy.....		1	1	Mount Vernon.....	2		
<b>Michigan:</b>				New York.....	45	34	10
Detroit.....	3	4	1	Peekskill.....	2		
Flint.....	1			<b>Ohio:</b>			
<b>Missouri:</b>				Cincinnati.....			1
Independence.....		4		Cleveland.....		8	2
Kansas City.....		2	2	<b>Oregon:</b>			
St. Louis.....	1			Portland.....	1		
Springfield.....			1	<b>Pennsylvania:</b>			
<b>Montana:</b>				Philadelphia.....	5	3	3
Billings.....		1		Pittsburgh.....			3
<b>Nevada:</b>				<b>Tennessee:</b>			
Reno.....		1		Memphis.....			1
<b>New Jersey:</b>				Nashville.....			1
Garfield.....		1		<b>Texas:</b>			
Harrison.....	1			Dallas.....		1	
Jersey City.....		1		<b>Wisconsin:</b>			
Kearny.....	1			Kenosha.....		1	
Newark.....	6	7		Manitowoc.....		1	

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
<b>California:</b>			<b>New York:</b>		
San Francisco.....		1	New York.....	8	8
<b>Illinois:</b>			Rome.....	1	
Chicago.....	1	1	<b>Texas:</b>		
<b>Massachusetts:</b>			Houston.....		1
Boston.....	1		<b>Wisconsin:</b>		
			Manitowoc.....	1	1

MALARIA.

<b>Alabama:</b>			<b>Arkansas:</b>		
Birmingham.....	8		Little Rock.....	1	
Montgomery.....	1		<b>Georgia:</b>		
			Augusta.....	1	

MEASLES.

See p. 2905; also Current State summaries, p. 2894, and Monthly summaries by States, p. 2898.

PELLAGRA.

City.	Cases.	Deaths.	Cases.	Cases.	Deaths.
<b>Alabama:</b>			<b>Massachusetts:</b>		
Annonson.....		1	Boston.....	1	
Birmingham.....	1	1	<b>North Carolina:</b>		
Montgomery.....		1	Raleigh.....		1
<b>Arkansas:</b>			<b>South Carolina:</b>		
Little Rock.....	1		Charleston.....		1
<b>Georgia:</b>			Columbia.....		4
Atlanta.....		2	<b>Texas:</b>		
Augusta.....		1	Austin.....	1	
<b>Louisiana:</b>			Houston.....		1
New Orleans.....	1	2			



## CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

## PNEUMONIA (ALL FORMS).

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Maine:		
Anniston.....	3	2	Bancor.....	3	.....
Birmingham.....	7	5	Lewiston.....	.....	5
Montgomery.....	.....	2	Portland.....	.....	4
Tuscaloosa.....	4	.....	Sanford.....	1	.....
Arkansas:			Maryland:		
Little Rock.....	3	.....	Baltimore.....	42	37
North Little Rock.....	1	.....	Cumberland.....	2	1
California:			Massachusetts:		
Alameda.....	.....	1	Boston.....	.....	21
Eureka.....	2	.....	Brockton.....	1	.....
Long Beach.....	4	2	Cambridge.....	.....	1
Los Angeles.....	31	14	Chelsea.....	3	.....
Oakland.....	3	1	Everett.....	2	.....
Riverside.....	3	1	Fall River.....	.....	1
Sacramento.....	.....	1	Gardner.....	.....	2
San Bernardino.....	1	.....	Haverhill.....	.....	2
San Diego.....	3	2	Holyoke.....	.....	2
San Francisco.....	10	6	Leominster.....	.....	1
Santa Ana.....	.....	1	Lowell.....	.....	6
Stockton.....	.....	1	Lynn.....	2	1
Colorado:			Malden.....	.....	2
Boulder.....	.....	1	Medford.....	.....	1
Denver.....	.....	11	Melrose.....	1	.....
Connecticut:			Newton.....	.....	2
Bridgeport.....	4	2	Quincy.....	.....	1
Bristol.....	.....	4	Salem.....	.....	2
Greenwich.....	2	.....	Somerville.....	4	1
New Haven.....	4	2	Springfield.....	6	1
Norwalk.....	.....	1	Waltham.....	.....	1
Waterbury.....	.....	4	Watertown.....	.....	1
Delaware:			Woburn.....	.....	2
Wilmington.....	.....	5	Worcester.....	.....	11
District of Columbia:			Michigan:		
Washington.....	.....	11	Ann Arbor.....	1	.....
Florida:			Battle Creek.....	4	1
St. Petersburg.....	2	.....	Detroit.....	49	24
Georgia:			Flint.....	3	2
Atlanta.....	9	8	Grand Rapids.....	5	2
Augusta.....	.....	2	Hamtramck.....	.....	1
Savannah.....	.....	5	Highland Park.....	3	1
Illinois:			Holland.....	1	.....
Aurora.....	1	.....	Ironwood.....	1	.....
Bloomington.....	.....	1	Ishpeming.....	.....	1
Blue Island.....	2	.....	Jackson.....	.....	2
Chicago.....	155	33	Kalamazoo.....	3	2
Danville.....	.....	1	Marquette.....	1	.....
Decatur.....	2	.....	Muskegon.....	3	1
East St. Louis.....	.....	2	Port Huron.....	.....	1
Jacksonville.....	3	2	Minnesota:		
Mattoon.....	1	.....	Duluth.....	8	2
Oak Park.....	.....	2	Faribault.....	.....	1
Peoria.....	.....	4	Minneapolis.....	.....	8
Rock Island.....	1	.....	St. Paul.....	.....	9
Rockford.....	.....	3	Winona.....	1	.....
Springfield.....	.....	5	Missouri:		
Indiana:			Cape Girardeau.....	.....	2
Fort Wayne.....	.....	5	Kansas City.....	14	8
Gary.....	.....	2	Springfield.....	.....	3
Indianapolis.....	.....	12	Nebraska:		
Kokomo.....	.....	1	Lincoln.....	.....	1
La Fayette.....	.....	1	Omaha.....	.....	5
Muncie.....	.....	1	Nevada:		
Terre Haute.....	.....	2	Reno.....	.....	1
Iowa:			New Hampshire:		
Sioux City.....	1	.....	Berlin.....	.....	1
Kansas:			Nashua.....	.....	1
Coffeyville.....	1	.....	New Jersey:		
Fort Scott.....	1	.....	Atlantic City.....	2	.....
Kansas City.....	9	.....	Bloomfield.....	2	.....
Parsons.....	1	.....	Camden.....	.....	5
Topeka.....	2	1	Clifton.....	1	.....
Wichita.....	.....	5	East Orange.....	.....	1
Kentucky:			Elizabeth.....	.....	3
Covington.....	.....	4	Hackensack.....	.....	1
Henderson.....	2	.....	Hoboken.....	.....	2
Louisville.....	.....	12	Jersey City.....	6	.....
Louisiana:			Long Branch.....	2	1
New Orleans.....	18	8	Morristown.....	3	1

**CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.**  
**PNEUMONIA (ALL FORMS)—Continued.**

City.	Cases.	Deaths.	City.	Cases.	Deaths.
<b>New Jersey—Continued.</b>			<b>Ohio—Continued.</b>		
Newark.....	44	8	Youngstown.....		4
Paterson.....	11		Zanesville.....		1
Plainfield.....	3	2	Oklahoma:		
Trenton.....		1	Oklahoma.....		4
West Hoboken.....		1	Oregon:		
West Orange.....	1		Portland.....		9
<b>New York:</b>			<b>Pennsylvania:</b>		
Amsterdam.....	3		Philadelphia.....	73	44
Buffalo.....	25	13	Pittsburgh.....	11	30
Cohoes.....	1		Rhode Island:		
Dunkirk.....		1	Cranston.....		1
Elmira.....	2		Cumberland.....		1
Glens Falls.....		1	Pawtucket.....		4
Hornell.....		1	Providence.....		6
Jamestown.....	4	2	South Carolina:		
Lackawanna.....		1	Charleston.....		3
Little Falls.....		1	Columbia.....		2
Lockport.....	1		Greenville.....		3
New York.....	258	140	Tennessee:		
Newburgh.....		1	Memphis.....		3
Niagara Falls.....	1		Nashville.....		3
Olean.....		2	Texas:		
Poughkeepsie.....	2	1	Austin.....	1	
Rochester.....	10	4	Dallas.....		6
Rome.....		1	El Paso.....		2
Schenectady.....		2	Fort Worth.....		2
Syracuse.....	9	4	Houston.....		2
Troy.....	7	6	San Antonio.....		3
White Plains.....	3	1	Texarkana.....	1	
Yonkers.....		2	Utah:		
<b>North Carolina:</b>			Provo.....	3	1
Durham.....		2	Salt Lake City.....		3
Salisbury.....		1	Virginia:		
Wilmington.....		2	Lynchburg.....		1
<b>Ohio:</b>			Norfolk.....		2
Akron.....	5		Petersburg.....		4
Ashtabula.....		1	Portsmouth.....		5
Barberton.....	1		Richmond.....		1
Cincinnati.....		10	Roanoke.....		1
Cleveland.....	41	13	Washington:		
Cleveland Heights.....	2		Walla Walla.....	1	
Columbus.....		1	West Virginia:		
Dayton.....	1		Charleston.....		1
East Cleveland.....	1		Clarksburg.....		1
Findlay.....		1	Huntington.....	6	2
Hamilton.....		2	Wheeling.....		1
Lima.....	1		Wisconsin:		
Mansfield.....	1		Kenosha.....		1
Middletown.....		1	Milwaukee.....		6
Salem.....		1	Racine.....		2
Springfield.....		1	Sheboygan.....		2
Toledo.....		3	Superior.....		1

**POLIOMYELITIS (INFANTILE PARALYSIS).**

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

City.	Median for previous years.	Week ended Nov. 17, 1923.		City.	Median for previous years.	Week ended Nov. 17, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Missouri:			
Los Angeles.....	0	1		St. Louis.....	0	2	
Connecticut:				Nebraska:			
Milford.....	0	1		Lincoln.....	0	1	
Illinois:				New Jersey:			
Chicago.....	0	1		Harrison.....	0	1	
Massachusetts:				Hoboken.....	0	1	
Boston.....	0	2	1	Newark.....	0	3	1
Everett.....	0	1		New York:			
Haverhill.....	0	1		New York.....	3	6	1
Lawrence.....	0	1		Pennsylvania:			
Methuen.....	0	1		McKeesport.....	0	1	
Salem.....	0		1	Philadelphia.....	0	2	1
Springfield.....	0	1		Scranton.....	0	1	

## CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

## RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Missouri:	
Los Angeles.....	12	Kansas City.....	3
Pasadena.....	1	New Jersey:	
Kansas:		East Orange.....	1
Coffeyville.....	1	Montclair.....	1
Massachusetts:		Orange.....	1
Methuen.....	1		

## RABIES IN MAN.

City.	Cases.	Deaths.
New Jersey:		
West Orange.....	1	1

## SCARLET FEVER.

See p. 2905; also Current State summaries, p. 2894, and Monthly summaries by States, p. 2898.

## SMALLPOX.

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

City.	Median for previous years.	Week ended Nov. 17, 1923.		City.	Median for previous years.	Week ended Nov. 17, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				New York:			
Los Angeles.....	0	43		Dunkirk.....	0	3	
Oakland.....	0	1		North Carolina:			
Riverside.....	0	1		Durham.....	0	1	
District of Columbia:				Raleigh.....	0	1	
Washington.....	0	2		Winston-Salem.....	0	1	
Georgia:				Ohio:			
Atlanta.....	1	8		Cleveland.....	2	1	
Savannah.....	0	1		Middletown.....	0	1	
Indiana:				Youngstown.....	0	11	
Gary.....	1	3		Zanesville.....	0	5	
Indianapolis.....	1	4		Oregon:			
Michigan City.....		1		Portland.....	4	6	
Iowa:				Pennsylvania:			
Clinton.....	0	16		Philadelphia.....	0	3	
Des Moines.....	1	2		Tennessee:			
Waterloo.....	0	1		Chattanooga.....	0	3	
Kentucky:				Knoxville.....	0	7	
Louisville.....	0	1		Texas:			
Louisiana:				San Antonio.....	0	1	
Shreveport.....		1		Utah:			
Maryland:				Salt Lake City.....	3	2	
Baltimore.....	0	2		Vermont:			
Michigan:				Burlington.....	0	11	
Detroit.....	1	17		Washington:			
Grand Rapids.....	0	1		Aberdeen.....	2	1	
Highland Park.....	0	1		Everett.....	0	1	
Holland.....	0	15		Seattle.....	0	4	
Jackson.....	0	22		Spokane.....	6	9	
Minnesota:				Wisconsin:			
Duluth.....	0	2		Kenosha.....	0	1	
Minneapolis.....	4	1		Milwaukee.....	1	3	
St. Paul.....	10	21		Racine.....	0	1	
Montana:				Superior.....	1	3	
Butte.....	0	2					

CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

TETANUS.

City.	Cases.	Deaths.
Connecticut: Bridgeport.....		1
Georgia: Savannah.....	1	1

TUBERCULOSIS.

See p. 2905; also Current State summaries, p. 2894.

TYPHOID FEVER.

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

City.	Median for previous years.	Week ended Nov. 17, 1923.		City.	Median for previous years.	Week ended Nov. 17, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama: Birmingham.....	1	3		Michigan: Detroit.....	5	1	3
Arkansas: Little Rock.....	0	4		Hamtramck.....	0	1	
California: Long Beach.....	0	1	1	Highland Park.....	0	1	
Los Angeles.....	2	1	1	Kalamazoo.....	0	1	
Pasadena.....	0	1		Muskegon.....	0	3	
San Francisco.....	0	1	1	Port Huron.....	0		1
Colorado: Pueblo.....	0		1	Minnesota: Minneapolis.....	1		2
Trinidad.....	0	1		Rochester.....	0	1	
Connecticut: Bridgeport.....	1	1		St. Paul.....	0		1
Milford.....	0	1		Missouri: Kansas City.....	2	1	1
Delaware: Wilmington.....	0	2		St. Joseph.....	0	1	
District of Columbia: Washington.....	3	1	1	St. Louis.....	4	3	
Georgia: Atlanta.....	0	3	2	Springfield.....	0		1
Macon.....	0	1		New Hampshire: Berlin.....	0		1
Illinois: Chicago.....	8	25	2	New Jersey: Camden.....	0	1	1
Decatur.....	0	1		Jersey City.....	0	1	
Mattoon.....	1	1		Kearny.....	0		1
Indiana: Evansville.....	0	1		Long Branch.....	0	1	
Indianapolis.....	1		2	Newark.....	1	2	1
Muncie.....	0		1	New Mexico: Albuquerque.....	1	1	
Iowa: Sioux City.....	0	1		New York: Amsterdam.....		1	
Kansas: Topeka.....	1	1		New York.....	24	15	1
Wichita.....	0	1		Troy.....	0	1	
Louisiana: New Orleans.....	4	2		Yonkers.....	0	1	
Shreveport.....		1	1	Ohio: Cambridge.....	0	1	
Maine: Lewiston.....	1	1		Chillicothe.....	0	1	
Portland.....	0	2		Cincinnati.....	1	1	
Sanford.....	0	1		Cleveland.....	4	2	
Maryland: Baltimore.....	4	5		Hamilton.....	0	2	
Cumberland.....	1	1		Lima.....	1	1	
Frederick.....	0	1		Sandusky.....	0		1
Massachusetts: Boston.....	3	3		Toledo.....	2	1	
Gardner.....	0	1		Oklahoma: Oklahoma.....	1	4	
Lowell.....	0	1		Oregon: Portland.....	1		1
Lynn.....	0	1		Pennsylvania: Allentown.....	1	1	
Somerville.....	0	1		Bradford.....	0	1	
Taunton.....	0	2		Carnegie.....	0	1	
Waltham.....	0	1		Hazleton.....	0	1	
				Philadelphia.....	7	4	
				Pittsburgh.....	1	2	1
				Scranton.....	0	1	
				Tamaqua.....	0	2	
				York.....	0	1	



**CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.**

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Connecticut—Continued.</b>										
New Haven.....	162,537	38	2				13	1	10	1
New London.....	25,688	7							1	1
Norwalk.....	27,743	3								
Waterbury.....	91,715	19	16	1			13		1	
<b>Delaware:</b>										
Wilmington.....	110,168	28	2				6		2	
<b>District of Columbia:</b>										
Washington.....	437,571	127	13			8		24	19	9
<b>Florida:</b>										
St. Petersburg.....	14,237	9	2			4				
Tampa.....	51,608	13							1	1
<b>Georgia:</b>										
Albany.....	11,555								1	
Atlanta.....	200,616	69	5			27	1	5		5
Augusta.....	52,548	22				1		2	1	2
Brunswick.....	14,413	1								
Lagrange.....	17,038		8			19		1		
Macon.....	52,995		1			1				
Rome.....	13,252		3			2		2		
Savannah.....	83,252	35	3			2			2	4
<b>Idaho:</b>										
Boise.....	21,393	4						2		
<b>Illinois:</b>										
Alton.....	24,682	2	2					2		
Aurora.....	36,379	9	12					2		
Berwyn.....	14,150	1	1			9		1	1	
Bloomington.....	28,725	7	1					4	2	
Blue Island.....	11,424	2	3							
Centralia.....	12,491	3							1	
Champaign.....	15,873		3					1	1	
Chicago.....	2,701,705	576	171	10		32		80	150	49
Danville.....	33,776	9						2		2
Decatur.....	43,818	8	1					8		
East St. Louis.....	66,767	17	4							1
Elgin.....	27,454	6				5		2		
Evanston.....	37,234	13	1					11		
Forest Park.....	10,768					2		1		
Freeport.....	19,669	3	1							1
Galesburg.....	23,834	10	2							1
Jacksonville.....	15,713	8						2	1	1
Kewanee.....	16,026	3								
La Salle.....	13,050	5								
Mattoon.....	13,552		2			1				
Oak Park.....	39,858	12	2			1				1
Pekin.....	12,086		1							
Peoria.....	76,121	21	1					1		2
Quincy.....	35,978	7				1		1		
Rock Island.....	35,177	4	2	1		20				
Rockford.....	65,651	13	1			1		2		
Springfield.....	59,183	21	4					3	5	1
Urbana.....	10,244	1	1							
<b>Indiana:</b>										
Anderson.....	29,767	3	3			11		8		
Bloomington.....	11,595	0								
Crawfordsville.....	10,139	3	1					1		1
Elwood.....	10,790	2	1			31				
Evansville.....	85,264	3	7	2				6	1	1
Fort Wayne.....	86,549	15	4					8		2
Frankfort.....	11,585	2	1			10				1
Gary.....	55,378	15	8					10		
Hammond.....	36,004	5	3							1
Huntington.....	14,000	3	2					3		
Indianapolis.....	314,194	95	26	2		5		5	1	5
Kokomo.....	30,067	3	7			1				1
La Fayette.....	22,486	4	1						2	
Laporte.....	15,158	7	1							
Logansport.....	21,626	4	1			1				
Michigan City.....	19,457	3	2	1				2		
Mishawaka.....	15,195	6	1						1	
Muncie.....	36,524	8								
Newcastle.....	14,458	1	1							
Richmond.....	26,765	1	2	1				1		
South Bend.....	70,983	13	20			1			8	
Torre Haute.....	66,063	21	2					2		2

## CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Iowa:</b>										
Burlington.....	24,057	9	4				1			
Clinton.....	24,151		3							
Davenport.....	50,727		6		53					
Des Moines.....	126,468		4	1			8			
Dubuque.....	39,141		9							
Iowa City.....	11,267		1							
Marshalltown.....	15,731	0	2				2			
Muscatine.....	16,068	2	2				8		1	
Sioux City.....	71,227		13		125		5			
Waterloo.....	36,230		1							
<b>Kansas:</b>										
Atchison.....	12,630				32					
Coffeyville.....	13,452	2	1							
Fort Scott.....	10,693	6	1		30		1			
Hutchinson.....	23,298				1					
Kansas City.....	101,177		4		2		6			
Lawrence.....	12,456	1								
Parsons.....	16,028	1	1				2			
Topeka.....	50,022	14	6				1		2	1
Wichita.....	72,217	19	11				2		2	1
<b>Kentucky:</b>										
Covington.....	57,121	14	1				19			
Henderson.....	12,169	5								
Louisville.....	231,891	76	10		3		1		15	6
Owensboro.....	17,424		1				1		1	
Paducah.....	24,735		2							
<b>Louisiana:</b>										
New Orleans.....	387,219	148	27		10		14		17	14
Shreveport.....	43,874	21			11		1			2
<b>Maine:</b>										
Auburn.....	16,985	1					1			
Bath.....	14,731	6								
Biddeford.....	18,008	3			3					
Lewiston.....	31,791	17	3		9				1	
Portland.....	69,272	26	7				5			
Sanford (town).....	10,691	0								
Waterville.....	13,351		1							
<b>Maryland:</b>										
Baltimore.....	733,826	206	37	6	10		12		24	16
Cumberland.....	29,837	9					1			1
Frederick.....	11,066	7	4				1			
<b>Massachusetts:</b>										
Adams (town).....	12,967	2							1	16
Amesbury (town).....	10,036	4								
Arlington (town).....	18,665	2	1							
Attleboro.....	19,731	3								
Belmont (town).....	10,749	2	1		1				1	
Beverly.....	22,561	4								
Boston.....	748,060	218	93	4	37		73		39	15
Braintree (town).....	10,580	2								
Brockton.....	66,254	12	8		1		4			
Brookline.....	37,748	7			10		5			
Cambridge.....	109,694	31	13		2		3		2	2
Chelsea.....	43,184	15	2				2		3	
Chicopee.....	36,214	4	2							1
Clinton.....	12,979	2					3			
Danvers.....	11,108				4					
Dedham.....	10,792	2								
Easthampton.....	11,261		1							
Everett.....	40,120	5	1				1		3	
Fall River.....	120,485	20	2						2	4
Frammingham.....	17,033	2					1			
Gardner.....	16,971	4	1				1			
Greenfield.....	15,462	2								
Haverhill.....	53,884	12	3				7			
Holyoke.....	60,203	20	56	1			1		2	1
Lawrence.....	94,270	16	11	1	2	1	3		1	1
Leominster.....	19,744	4	1				2			
Lowell.....	112,759	31	2		1		2		5	
Lynn.....	99,148	20	2				3		3	
Malden.....	49,103	5	3		1		4			
Medford.....	39,038	5	4				3			
Melrose.....	18,204	5	1				1			

CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Massachusetts—Continued.</b>										
Methuen	15,189	4	1		1				1	1
Milford	13,471	2						1		
New Bedford	121,217	16	3				3		1	1
Newburyport	15,618	4								
Newton	46,054	5	4		3		2			
North Adams	22,282	4			2		1			
Northampton	21,951	9	1		2		1			
Northbridge	10,174	1								
Peabody	19,552	5	3	1			13			
Pittsfield	41,763	5	5		21		1		1	1
Plymouth	13,045	2								
Quincy	47,876	9	5				1		1	
Revere	28,823	2								
Salem	42,529	16	1		9		9		1	
Somerville	93,091	20	2	2	2		5			1
Southbridge	14,245	6	3	2	2				1	
Springfield	129,614	27	6				1		3	1
Taunton	37,137	13								2
Wakefield	13,025	3							2	
Waltham	30,915	10	3	1	4		5			
Watertown	21,457	2			6		2			
Webster	13,258	1					1		1	
West Springfield	13,443	0								
Westfield	18,604	1							1	
Weymouth	15,057	3								1
Winchester	10,485	2								
Winthrop	15,455	2					1			
Woburn	16,574	5					1			
Worcester	179,754	43	9		2		9		7	2
<b>Michigan:</b>										
Alpena	11,101						2			
Ann Arbor	19,516	11	2				2			
Battle Creek	36,164	1	3		1		9		2	
Benton Harbor	12,233	4					5			
Detroit	993,678	231	74	4	55	1	57	1	28	14
Flint	91,599	19	12	2	6		6			
Grand Rapids	137,634	28	10	2	3		12		8	1
Hamtramck	48,615	9					1			1
Highland Park	46,499	13	2		5		4			
Holland	12,183						2			
Ironwood	15,739	5	2		1	1	3		4	1
Ishpeming	10,500	3			16					
Jackson	48,374	13	7		1		6		2	
Kalamazoo	48,487	18	6				1		1	
Marquette	12,718	1			103		1			
Muskegon	36,570	12	6				17			1
Pontiac	34,273	11	3				8			
Port Huron	25,944	12	1							
Sault Ste. Marie	12,096	2	1		22					
<b>Minnesota:</b>										
Duluth	98,917	23	1		1		4		2	
Faribault	11,089	2	2		10		1			
Hibbing	15,089	3					9			
Minneapolis	380,582	91	34	1			53		15	4
Rochester	13,722	16			2				1	3
St. Cloud	15,873	6								
St. Paul	234,698	60	18		2		23		12	4
Virginia	14,022		1				2			
Winona	19,143	7								
<b>Missouri:</b>										
Cape Girardeau	10,252	6	3							
Independence	11,686		2				8			
Joplin	29,902				1					
Kansas City	324,410	94	11	1	8		17		10	5
St. Joseph	77,939	19	2		14		5			1
St. Louis	772,897	246	35		10	1	48	3	28	9
Springfield	39,631	14								1
<b>Montana:</b>										
Billings	15,100	3			2		1			
Butte	41,611	13	4		30		8			3
Great Falls	24,121		1	1					1	
Helena	12,037	3					2			
Missoula	12,668	4	1							



## CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Nebraska:										
Lincoln.....	54,948	22	11		7		3	1		1
Omaha.....	191,601	49	16	3	1		3			2
Nevada:										
Reno.....	12,016	4								
New Hampshire:										
Berlin.....	16,104	6								
Concord.....	22,187	7			6					1
Dover.....	13,029	4			7				1	
Keene.....	11,210	4								
Nashua.....	28,379	9			4				1	
New Jersey:										
Asbury Park.....	12,400	0					2			
Atlantic City.....	50,707	8	2							1
Bayonne.....	76,754		1				3		3	
Belleville.....	15,660								1	
Bloomfield.....	22,019	2					1			
Camden.....	116,309	31	12		1		1		1	
Clifton.....	26,470	2	2		1		1		1	
East Orange.....	50,710	10					2		1	
Elizabeth.....	95,783		9	1	5		1			
Englewood.....	11,627	3								
Garfield.....	19,381	2								
Hackensack.....	17,667	5							1	
Hoboken.....	68,166	14	2				2		1	
Jersey City.....	298,103		13		15		2		14	
Kearny.....	26,724	3	4							
Long Branch.....	13,521	1								
Montclair.....	28,810	2	1						1	
Morristown.....	12,548	4			1		1			
Newark.....	414,524	77	15		4		10		19	5
Orange.....	33,268	3	1		4				1	1
Passaic.....	63,841	19	2						2	1
Paterson.....	135,875		3		12		4		5	
Perth Amboy.....	41,707	4	1		5		1			
Plainfield.....	27,700	5			20		1			
Summit.....	10,174	2							1	
Trenton.....	119,289	35	21		3		3		3	1
West Hoboken.....	40,074	3							2	1
West Orange.....	15,573	1	2							
New Mexico:										
Albuquerque.....	15,157	5					2		2	1
New York:										
Amsterdam.....	33,524	5	9		14		14		1	
Buffalo.....	506,775	119	27		8		39		11	5
Cohoes.....	22,987	10	3		45					
Dunkirk.....	19,336	4	1		6		1			
Elmira.....	45,393	8	2				6			
Geneva.....	14,648	3								
Glens Falls.....	16,638	5							1	
Hornell.....	15,025	5								
Hudson.....	11,745	5	1				1		1	
Ithaca.....	17,004	3					2			
Jamestown.....	39,917	12	2		2		3			
Lackawanna.....	17,918	3	5		10				1	
Little Falls.....	13,029	3								
Lockport.....	21,308	3								
Mount Vernon.....	42,726	7			39		6		1	
New York.....	5,620,948	1,250	173	7	162	1	98	1	224	185
Newburgh.....	30,366	12					3			1
Niagara Falls.....	50,760	10			1		7			1
North Tonawanda.....	15,482	3					3		1	
Ogdensburg.....	14,609	6								
Olean.....	20,506	4								
Ossining.....	10,739	1								
Peekskill.....	15,868	3					2			
Poughkeepsie.....	35,000	12	1				2			1
Rochester.....	295,750	62	11	1	2		6		7	1
Rome.....	26,341	9	4	1	30		7			
Saratoga Springs.....	13,181	3	13						1	1
Schenectady.....	88,723	18	19		53		5		1	

¹Pulmonary only.

CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York—Continued.										
Syracuse.....	171,717	39	19	3	26	1	13		5	1
Troy.....	72,013	24	14	1	50			3	2	
White Plains.....	21,031	5			5					1
Yonkers.....	100,176	22	5				2			2
North Carolina:										
Durham.....	21,719	6	2				5		4	
Greensboro.....	45,525	14					3			1
Raleigh.....	24,418	9	5				2			
Rocky Mount.....	12,742	4								1
Salisbury.....	15,884	5			2		1		1	
Wilmington.....	33,372	10							1	
Winston-Salem.....	48,395	11	3	1	41		3			1
North Dakota:										
Fargo.....	21,961	5								
Grand Forks.....	14,010						4			
Ohio:										
Akron.....	208,435	33	9		7		8		5	
Ashtabula.....	22,032	8							1	
Barberton.....	18,811	3			1		1			1
Bucyrus.....	10,425	5	1				1			
Cambridge.....	13,104	3	1				5			
Chillicothe.....	15,831	6	1				3			
Cincinnati.....	401,247	108	9		10		18		18	16
Cleveland.....	796,841	171	40	2	10	1	29	1	43	13
Cleveland Heights.....	15,236						1			
Columbus.....	237,031	62	26	2	1		7		3	4
Dayton.....	152,559	46	9				7		1	
East Cleveland.....	27,292	4					7			
East Liverpool.....	21,411		2				3			
Findlay.....	17,021	4								
Fremont.....	12,468	2					4			
Hamilton.....	39,675	11	1				2		1	1
Kenmore.....	12,683		1							
Lancaster.....	14,706	5	1				1			
Lima.....	41,326	11	2		3		2			
Lorain.....	37,295		6				16			
Mansfield.....	27,824	7	2				3			
Martins Ferry.....	11,634	3					1			
Middletown.....	23,594	11			2	1	1		2	1
New Philadelphia.....	10,718		1		21		8			
Newark.....	26,718	1	1							
Norwood.....	21,966	2							1	
Piqua.....	15,044	6								
Salem.....	10,305	3					2			
Sandusky.....	22,897	5					14			
Springfield.....	60,840	12	2				8		3	1
Steubenville.....	28,508	7	2				4			
Tiffin.....	14,375	8								1
Toledo.....	243,164	70	24	3	1		19		4	4
Youngstown.....	132,358	22	21		5	1	18	2	2	1
Zanesville.....	29,569	11					5			2
Oklahoma:										
Guthrie.....	11,757		1				3			
Oklahoma.....	91,295	26	5	1	2		8		1	
Shawnee.....	15,348	4	2		4		3			
Tulsa.....	72,075		4				4			
Oregon:										
Portland.....	258,288	70	12	1	193		7		5	5
Pennsylvania:										
Allentown.....	73,502		6				4		1	
Altoona.....	60,331		4				1			
Ambridge.....	12,730						5			
Beaver Falls.....	12,802		1		3		3			
Berwick.....	12,181		1							
Bethlehem.....	50,358		8		4		2			
Braddock.....	20,879		5				1		2	
Butler.....	23,778		1				1			
Canonsburg.....	10,632		4				1			
Carlisle.....	10,916						1			
Carnegie.....	11,516						2			
Charleroi.....	11,516						2			
Chester.....	58,030		3				1			
Connellsville.....	13,804		3				3			

## CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
Duquesne.....	19,011		1		2					
Easton.....	33,813		2							
Erie.....	93,379		5		3		10		5	
Farrell.....	15,586		8				9			
Greensburg.....	15,033		1							
Harrisburg.....	75,917		1		3		2			
Hazleton.....	32,277		5		2		1			
Homestead.....	20,452						2			
Jeannette.....	10,627		4							
Johnstown.....	67,327		7				7		2	
Lancaster.....	53,150		2		4		4			
Lebanon.....	24,643		4						1	
McKees Rocks.....	16,713								1	
McKeesport.....	46,781						2		1	
Monessen.....	18,179		1							
Mount Carmel.....	17,469		2							
New Castle.....	44,938		1							
North Braddock.....	14,928		1							
Philadelphia.....	1,823,779	471	95	4	15	1	48		60	24
Pittsburgh.....	588,343	178	46	7	3		34		8	6
Pittston.....	18,497		1							
Plymouth.....	16,500		1							
Reading.....	107,784		5				1		1	
Scranton.....	137,783		2		2		1		4	
Shamokin.....	21,204		3							
Sharon.....	21,747		2							
Steelton.....	13,328		1				2		1	
Tamaqua.....	12,363		3				1			
Warren.....	11,272						10			
Washington.....	21,480		6		17		9			
Wilkes-Barre.....	73,833		3				1			
Wilkesburg.....	24,403		7							
Williamsport.....	36,198				53		3			
Woodlawn.....	12,495		3				1			
York.....	47,512		2				3			
Rhode Island:										
Cranston.....	29,407	5					1			
Cumberland (town).....	10,077	5	1	1						
Newport.....	30,255	6	2							1
Pawtucket.....	64,248	14	4							
Providence.....	237,595	63	13				19			6
South Carolina:										
Charleston.....	67,957	28	8							1
Columbia.....	37,524	31	1		12				2	
Greenville.....	23,127	10	4		2		2			
Tennessee:										
Chattanooga.....	57,895		1				4			
Knoxville.....	77,818		2		13		7		1	1
Memphis.....	162,351	60	11	1	1		8		8	9
Nashville.....	118,342	41	4		2		9	1	3	4
Texas:										
Amarillo.....	15,494	7					1			
Austin.....	34,876	9							1	1
Beaumont.....	40,422	6	2				4			
Corpus Christi.....	10,522	2	3							
Dallas.....	158,976	37	17		147		12			
El Paso.....	77,560	28	10	2	2		6		6	2
Fort Worth.....	106,482	15	3				3			
Galveston.....	44,255	7	1				3			
Houston.....	138,276	37	3	2			1			5
San Antonio.....	161,379	72	5	1					2	11
Temple.....	11,033		7							
Texarkana.....	11,480		2		15					
Waco.....	38,500	12	1				1			1
Utah:										
Provo.....	10,303	2								
Salt Lake City.....	118,110	28	1		6		1			3
Vermont:										
Barre.....	10,008	4					2			
Burlington.....	22,779	7					1			

**CITY REPORTS FOR WEEK ENDED NOVEMBER 17, 1923—Continued.**

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

City.	Population Jan. 1, 1923.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Virginia:										
Alexandria.....	18,666	4	1				1			
Lynchburg.....	30,070	9	7						1	
Newport News.....	33,586	5	1	1			1			3
Norfolk.....	115,777	3			26		2		2	1
Petersburg.....	31,612	12	1				3		1	1
Portsmouth.....	54,887	14	2				2			
Richmond.....	171,667	48	7		4		12		4	5
Roanoke.....	50,842	16	1	1			4		1	1
Washington:										
Bellingham.....	25,585		1		5					
Seattle.....	215,312		6		47		9		21	
Spokane.....	164,437		3		91		14			
Tacoma.....	96,865		4		1		2			
Vancouver.....	12,637		1							
Walla Walla.....	15,503				1					
Yakima.....	18,539				17					
West Virginia:										
Bluefield.....	15,282	3	2				2			
Charleston.....	39,608	12	2				4			1
Clarksburg.....	27,869	2	2							
Fairmont.....	17,851		2						1	
Huntington.....	50,177	9	3				5		3	1
Martinsburg.....	12,515		1				2			
Morgantown.....	12,127		2	1			4			
Parkersburg.....	20,650	5	2				2			
Wheeling.....	56,208	14	2		1		3		1	2
Wisconsin:										
Appleton.....	19,561	3	2							
Ashland.....	11,334	1					2			
Beloit.....	21,284	4	4				3			
Eu Claire.....	26,906		1				1			
Fond du Lac.....	23,427	3					9			
Green Bay.....	31,017		17	2	6		11	1		
Janesville.....	18,293	3	1							
Kenosha.....	40,472	4	4		1		1		1	
La Crosse.....	30,421						4			
Madison.....	38,378	5	8	1	1		1			
Marinette.....	13,610	2	2		3					1
Milwaukee.....	457,147		32	2	3		17		19	5
Oshkosh.....	33,162	8	1		1					
Racine.....	58,593	10	11				34		4	
Sheboygan.....	30,955	7	10	1			5		2	1
Stevens Point.....	11,371						10			
Superior.....	39,671	8					5			
Wausau.....	12,558	1	1						2	
Wausau.....	18,661		8				2		1	
West Allis.....	13,745		2							

## FOREIGN AND INSULAR.

### BRAZIL.

#### Plague—Bahia.

During the two weeks ended October 27, 1923, three cases of plague, with one death, were reported at Bahia, Brazil.

### CUBA.

#### Communicable Diseases—Habana—November 11-20, 1923.

Communicable diseases have been notified at Habana, Cuba, as follows:

Disease.	Nov. 11-20, 1923.		Remain- ing under treatment Nov. 20, 1923.
	New cases.	Deaths.	
Chicken pox.....	2	.....	3
Diphtheria.....	2	1	3
Infantile tetanus.....	.....	.....	1
Leprosy.....	.....	.....	15
Malaria.....	68	1	158
Measles.....	1	.....	4
Paratyphoid fever.....	1	.....	1
Scarlet fever.....	2	.....	4
Typhoid fever.....	14	3	130

<sup>1</sup> From the interior, 28.

<sup>2</sup> From the interior, 22.

Population, 380,693.

### GREAT BRITAIN.

#### Births and Deaths—England and Wales—July to September, 1923.

The following tables have been prepared from figures given in Quarterly Return No. 299, issued by the registrar general of England and Wales.<sup>1</sup>

The figures are provisional and subject to correction. The rates were calculated on an annual basis. The entire population was included in the computations for England and Wales, but civilians only in those for groups of towns.

Births registered during the quarter numbered 190,148, which was 5,548 less than in the corresponding quarter of 1922. The deaths registered numbered 91,325, which was 343 more than in the corresponding quarter of 1922.

<sup>1</sup> A table giving similar data for the second quarter of 1923 will be found on page 2234 of the Public Health Reports, vol. 38, No. 38, issue of Sept. 21, 1923.

*Birth and death rates, England and Wales, July to September, inclusive, 1923.*

	England and Wales.	105 county boroughs and great towns.	157 smaller towns.
Birth rates per 1,000 population.....	19.8	20.5	19.5
Death rates per 1,000 population:			
All causes.....	9.5	9.4	8.4
Typhoid fever.....	.01	.01	.02
Measles.....	.06	.07	.07
Scarlet fever.....	.02	.02	.02
Whooping cough.....	.09	.09	.08
Diphtheria.....	.05	.06	.04
Influenza.....	.08	.07	.08
Death rates per 1,000 births:			
Diarrhea and enteritis (under 2 years).....	11.2	14.6	9.3
Total deaths under 1 year.....	57	62	56

Populations (estimated as of July 1, 1922): England and Wales, 38,158,000; 105 county boroughs and great towns, 19,170,423; 157 smaller towns (29,900-59,000), 4,931,620.

**Cases of Communicable Diseases Reported in England and Wales During the 13 Weeks Ended September 29, 1923.**

Diphtheria.....	8,142	Scarlet fever.....	16,417
Ophthalmia neonatorum.....	1,692	Smallpox.....	662
Pneumonia.....	6,332	Typhoid fever.....	1,123
Puerperal fever.....	467		

**JAMAICA.**

**Smallpox (Reported as Alastrim).**

During the two weeks ended November 10, 1923, 67 cases of smallpox (reported as alastrim) were reported in the island of Jamaica. Of these, three cases, occurring during the week ended November 10, 1923, were reported for the parish of Kingston.

**Typhoid Fever—Kingston and Vicinity.**

During the same period, 24 cases of typhoid fever were reported at Kingston and 13 cases in the surrounding country.

**MADAGASCAR.**

**Plague—Month of September, 1923.**

During the month of September, 1923, 41 cases of plague with 37 deaths were reported in the island of Madagascar. The occurrence was distributed as follows: Province of Tananarive—36 cases with 32 deaths, of which 9 cases were bubonic, 10 pneumonic, and 17 septicemic. Tananarive town—5 cases with 5 deaths, of which 1 case was bubonic and 4 cases were septicemic.

**MARTINIQUE (WEST INDIES).**

**Smallpox (Reported as Alastrim).**

During the period September 30 to November 10, 1923, smallpox (reported as alastrim) was reported present in the interior of the island.

UNION OF SOUTH AFRICA.<sup>1</sup>

## Further Relative to Epidemic Cerebrospinal Meningitis.

Notifications of the occurrence of epidemic cerebrospinal meningitis in the Union of South Africa have been received as follows: Week ended October 6, 1923: Edenburg—one case (white); Thaba 'Ncho—one case; Witwatersrand area—four cases in the white population, two in the colored or mixed population, 25 cases in natives. Week ended October 13, 1923: Capetown—one white case; Witwatersrand—23 native cases.

## Plague—Vicinity of Uitenhage, Cape Province.

Under date of October 18, 1923, the occurrence of three cases of plague was reported at Haarhoff's Kraal, stated to be situated 20 miles distant from Uitenhage, which is about 20 miles inland from Port Elizabeth. The occurrence was among natives.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.<sup>2</sup>

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 December 7, 1923.

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Sept. 16-22, 1923: Cases, 1,453; deaths, 868.
Madras.....	Oct. 21-27.....	1		

## PLAGUE.

Brazil:				
Bahia.....	Oct. 14-27.....	3	1	
British East Africa:				
Kenya—				
Mombasa.....	Sept. 16-Oct. 13....	4	7	
Ceylon:				
Colombo.....	Oct. 14-20.....	5	3	Plague rats: 7.
India.....				Sept. 16-22, 1923: Cases, 5,301; deaths, 3,765.
Bombay.....	Sept. 30-Oct. 6....	5	5	
Madras Presidency.....	Oct. 21-27.....	75	59	
Madagascar.....				Sept. 1-30, 1923: Cases, 41; deaths, 37.
Tananarive Province.....	Sept. 1-30, 1923....	36	36	Bubonic, pneumonic, septicemic.
Tananarive Town.....	do.....	5	5	Bubonic; septicemic.
Turkey:				
Constantinople.....	Oct. 14-20.....		1	
Union of South Africa:				
Haarhoff's Kraal.....	Oct. 18.....	3	3	Vicinity of Uitenhage.

<sup>1</sup> Public Health Reports, Nov. 2, 1923, p. 2654, and subsequent issues.

<sup>2</sup> From medical officers of the Public Health Service, American consuls, and other sources.

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

**Reports Received During Week Ended December 7, 1923—Continued.**

**SMALLPOX.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Brasil:</b>				
Pernambuco.....	Sept. 9-Oct. 13....	13	3	
<b>British East Africa:</b>				
Tanganyika Territory.....	Aug. 11-Sept. 29..	66	13	
<b>Canada:</b>				
British Columbia—				
Vancouver.....	Sept. 30-Nov. 10..	8	.....	
Manitoba—				
Winnipeg.....	Oct. 28-Nov. 17..	3	.....	
<b>Chile:</b>				
Valparaiso.....	Sept. 14-Oct. 27..	.....	3	
<b>Egypt:</b>				
Cairo.....	Aug. 6-12.....	1	1	
<b>India:</b>				Sept. 16-22, 1923: Cases, 698; Deaths, 142.
Bombay.....	Sept. 30-Oct. 6....	3	3	
Madras.....	Oct. 21-27.....	1	.....	
<b>Jamaica:</b>				Oct. 28-Nov. 10, 1923: Cases, 67 (reported as alastrim).
Kingston.....	Oct. 28-Nov. 10..	3	.....	
<b>Java:</b>				
West Java—				
Batavia.....	Sept. 23-Oct. 5..	2	.....	
<b>Martinique Island</b> .....				Sept. 30-Nov. 10, 1923: Reported present in interior. (Reported as alastrim.)
<b>Mexico:</b>				
Mexico City.....	Oct. 21-27.....	6	.....	Including municipalities in Federal district.
Vera Cruz.....	Nov. 12-18.....	.....	1	
<b>Portugal:</b>				
Lisbon.....	Oct. 27-Nov. 3....	2	.....	
Oporto.....	Oct. 28-Nov. 10..	32	10	
<b>Spain:</b>				
Valencia.....	Oct. 28-Nov. 10..	37	4	
<b>Switzerland:</b>				
Berne.....	Oct. 28-Nov. 3....	1	.....	
Lucerne.....	Oct. 1-31.....	16	.....	
<b>Syria:</b>				
Damascus.....	Oct. 17-23.....	3	.....	
<b>Tunis:</b>				
Tunis.....	Nov. 5-11.....	1	.....	
<b>Turkey:</b>				
Constantinople.....	Oct. 28-Nov. 3....	.....	1	
<b>Union of South Africa:</b>				Outbreaks.
Cape Province.....	Sept. 30-Oct. 13..	.....	.....	Do.
Orange Free State.....	Oct. 7-13.....	.....	.....	

**TYPHUS FEVER.**

<b>Algeria:</b>				
Algiers.....	Oct. 1-31.....	1	.....	
<b>Argentina:</b>				
Rosario.....	Sept. 1-30.....	.....	1	
<b>Canary Islands:</b>				
Teneriffe.....	Oct. 22-Nov. 4....	.....	2	
<b>Chile:</b>				
Valparaiso.....	Sept. 7-Oct. 13..	.....	29	
<b>Egypt:</b>				
Alexandria.....	Oct. 29-Nov. 4....	1	1	
Cairo.....	Oct. 6-12.....	1	3	
<b>Mexico:</b>				
Mexico City.....	Oct. 21-27.....	14	.....	Including municipalities in Federal district.
<b>Spain:</b>				
Barcelona.....	Oct. 25-31.....	.....	1	
<b>Turkey:</b>				
Constantinople.....	Sept. 30-Nov. 3....	6	.....	
<b>Union of South Africa:</b>				Outbreaks.
Cape Province.....	Sept. 30-Oct. 13..	.....	.....	Do.
Orange Free State.....	Oct. 7-13.....	.....	.....	



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

Reports Received from June 30 to November 30, 1923.<sup>1</sup>

### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Sept. 16-22.....		2	
China:				
Canton.....	Aug. 28-Sept. 1.....	1		
Foochow.....	July 29-Sept. 1.....			Present.
Shanghai.....	Aug. 20-Sept. 2.....		28	Cases, foreign; deaths, native.
Do.....	Aug. 28-Sept. 16.....		12	Reported moderately prevalent Aug. 28.
India.....				Apr. 15-June 30, 1923: Cases, 19,470; deaths, 14,608. July 1-Sept. 15, 1923: Cases, 20,149; deaths, 11,431.
Bombay.....	June 3-30.....	34	23	
Do.....	July 1-Sept. 29.....	131	76	
Calcutta.....	May 6-June 30.....	371	300	
Do.....	July 8-Sept. 29.....	212	165	
Madras.....	June 3-30.....	2		
Do.....	July 1-Oct. 6.....	19	10	
Rangoon.....	May 13-June 30.....	18	15	
Do.....	July 1-Oct. 6.....	36	33	
Indo-China.....				Oct. 1-31, 1923: Cases, 92; deaths, 53. Preceding month: Cases, 24; deaths, 14. October, 1921; Cases, 100; deaths, 61. Nov. 1-Dec. 31, 1922: Cases, 161; deaths, 50 (native); European, 1 case. Including 100 square kilometers of surrounding country.
City—				
Saigon.....	May 20-June 30.....	12	11	Do.
Do.....	July 1-28.....	13	12	
Province—				
Annam.....	Sept. 1-Dec. 31.....	179	66	
Do.....	Feb. 1-28.....			Epidemic.
Cambodge.....	Sept. 1-Dec. 31.....	47	27	
Cochin-China.....	do.....	51	33	
Do.....	Jan. 1-Feb. 28.....	19	8	
Tonkin.....	Oct. 1-Dec. 31.....	1		
Iraq (Mesopotamia):				
Bagdad.....	Sept. 3-17.....	46	37	
Basrah.....	Aug. 8-Oct. 9.....	592	434	Port declared infected since Aug. 6, 1923.
Philippine Islands:				
City—				
Manila.....	June 10-16.....	2	1	Death in foreign case from Ching-kang, China.
Province—				
Bulacan.....	May 17-23.....	1		
Capiz.....	May 27-June 2.....	1	1	
Cebu.....	Apr. 8-21.....	1	1	
Cotabato.....	Apr. 8-14.....	1	1	
Laguna.....	May 6-June 9.....	2	1	
Mindoro.....	Aug. 5-11.....	2	2	
Mountain.....	Mar. 25-31.....	1	1	
Occidental Negros.....	July 22-28.....	1	1	
Pangasinan.....	June 24-30.....	2	2	
Viscaya.....	July 7-14.....	1	1	
Russia (Soviet).....				Jan. 1-May 15, 1923: Cases, 10.
Siam:				
Bangkok.....	May 13-June 30.....	10	11	
Do.....	July 1-Sept. 29.....	7	4	

### PLAGUE.

Algeria:				
Algiers.....	Aug. 11-20.....	2	1	Actual dates of occurrence: Aug. 16 and 17, 1923.
St. Eugene.....	Aug. 1-20.....	2	2	Locality 5 miles north of Algiers.
Australia:				
Sydney.....	June 30.....	1	1	
Azores:				
St. Michael Island.....	May 6-26.....	12	5	In one locality.
Bolivia:				
La Paz.....	Sept. 1-30.....		1	
Brazil:				
Bahia.....	Sept. 2-15.....	3	2	
Porto Alegre.....				Jan. 1-Mar. 31, 1923: Deaths, 19.

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

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

Reports Received from June 30 to November 30, 1923—Continued.

### PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>British East Africa:</b>				
<b>Kenya—</b>				
Kisumu.....	June 10-16.....	2	1	
Do.....	Aug. 5-11.....	1	1	
Mombasa.....	Aug. 19-Sept. 15.....	17	8	Plague rats, 6.
Kilindini Area.....	do.....	3	3	Plague rats, 12.
Tanganyika.....	May 6-June 2.....	3	3	Territory.
Do.....	July 5-21.....	20	12	
Uganda.....	Apr. 1-30.....	7	5	
<b>Canary Islands:</b>				
Las Palmas.....	June 7.....	1	1	
Tenerife.....	Nov. 6.....			Present.
<b>Ceylon:</b>				
Colombo.....	May 6-June 30.....	18	19	Plague rats, 38.
Do.....	July 1-Oct. 13.....	70	66	Plague rats, 30. One plague-injected cat.
<b>China:</b>				
Amoy.....	May 13-June 25.....		10	
Do.....	July 1-Oct. 13.....		21	
Foochow.....	May 27-June 23.....			Present.
Do.....	July 8-Sept. 1.....			Reported as endemic.
Hongkong.....	Apr. 29-June 30.....	63	40	
Do.....	July 1-Oct. 6.....	33	39	
Manchuria— Yakoshih.....	May 31.....	1	1	Station on Eastern Chinese Railway. Occurring in tarabagan (marmot) hunter. Bubonic. Rodent plague present.
Nanking.....	June 17-30.....			Do.
Do.....	July 1-Oct. 20.....			Do.
<b>Ecuador:</b>				
Guamote.....	Aug. 1-15.....	9	2	Country district.
Guayaquil.....				May 16-June 30, 1923: Rats examined, 13,800; found infected, 39. July 1-Aug. 15, 1923: Rats examined, 13,450; found infected, 23. Aug. 16-30, 1923: Rats taken, 54,304; found infected, 66. (Number examined not reported.)
Do.....	July 1-Sept. 30.....	10	3	
Santa Ana (Manabi).....	July 16-Aug. 15.....	7	3	
<b>Egypt.....</b>				
Jan. 1-June 21, 1923: Cases, 1,051; deaths, 548. May 1-29: Cases 345. Jan. 1-June 24, 1923: Cases, 1,069. Jan. 1-Oct. 4: 1923: Cases, 1,360; deaths, 652,				
<b>City—</b>				
Alexandria.....	Jan. 7-June 24.....	35	15	May 1-29, 1923: Cases, 14.
Do.....	July 1-Sept. 30.....	17	3	
Port Said.....	Jan. 7-June 24.....	24	12	May 1-29, 1923: Cases, 13.
Do.....	July 1-Sept. 30.....	30	5	
Suez.....	Mar. 2-June 15.....	12	7	May 1-29, 1923: Cases, 3.
Do.....	July 16-Aug. 30.....	11	1	
<b>Provinces—</b>				
Assiout.....	May 1-29.....	64		Deaths not reported.
Benisouef.....	do.....	7		Do.
Fayoum.....	do.....	14		Do.
Garbich.....	do.....	2		Do.
Geizeh.....	do.....	3		Do.
Girgeh.....	do.....	123		Sept. 28: One case.
Keneh.....	do.....	22		Deaths not reported.
Keneh.....	do.....	34		Sept. 15: Cases, 1; deaths, 1.
Menoufieh.....	do.....	46		Deaths not reported.
Minieh.....	do.....	34		Deaths not reported.
<b>France:</b>				
Paris.....	Aug. 13.....	1		Published in Public Health Reports, Sept. 14, 1923, pp. 2189 and 2190.
<b>Greece:</b>				
Syra Island.....	Sept. 10.....			Present.
<b>Hawaii:</b>				
<b>Hamakua.....</b>				
Plague-infected rats: Pohakea, May 23, 1923, 1 rat; vicinity of Pacific Sugar Co. mill, June 2, 1 rat; Aug. 2, 1 rat at Hamakua Mill Co. plantation. Aug. 16, plague rat found at Kapuluna.				
Honokaa.....	Sept. 21.....	1	1	July 20, 1923: One plague rat; July 30, 2 plague rats; Honokaa Sugar Co. mill and Honokaa village.

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

## Reports Received from June 30 to November 30, 1923—Continued.

### PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Apr. 29-June 23, 1923: Cases, 6,783; deaths, 4,481. July 1-
Bombay.....	Apr. 29-June 20.....	503	411	Sept. 15, 1923: Cases, 17,924;
Do.....	July 1-Sept. 29.....	43	35	deaths, 12,063.
Calcutta.....	May 6-June 9.....	13	13	
Do.....	Aug. 12-Sept. 15.....	2	2	
Karachi.....	May 13-June 30.....	110	85	Plague rats, 5.
Do.....	July 1-Oct. 20.....	123	111	
Madras Presidency.....	May 13-June 30.....	254	141	
Do.....	July 1-Oct. 20.....	3,947	2,388	
Rangoon.....	May 6-June 30.....	260	229	
Do.....	July 1-Oct. 13.....	332	291	
Indo-China.....				Oct. 1-Dec. 31, 1922: Cases, 245;
City—				deaths, 237. Sept. 1-30, 1922:
Saigon.....	June 24-30.....	5	5	70 cases, 68 deaths.
Do.....	July 1-7.....	1	1	Including 100 square kilometers
Province—				of surrounding country.
Annam.....	Oct. 1-Dec. 31.....	40	36	Do.
Do.....	Jan. 1-Feb. 28.....	47	39	Preceding month, 15 deaths.
Cambodge.....	Oct. 1-Dec. 31.....	145	145	Preceding month, 51 deaths.
Do.....	Jan. 1-Feb. 28.....	152	152	
Cochin-China.....	Oct. 1-Dec. 31.....	4	1	Preceding month, 4 cases, 2
Do.....	Jan. 1-Feb. 28.....	3	3	deaths.
Iraq (Mesopotamia):				
Bagdad.....	May 1-June 30.....	335	224	
Basrah.....	Aug. 8-Sept. 4.....	4	2	
Java.....				May 1-June 30, 1923: Deaths, 912.
Province—				July 1-Aug. 31, 1923: Deaths,
Djakakarta.....	June 1-30.....		5	976.
Do.....	July 1-Aug. 31.....		4	
Kedoe.....	June 1-30.....		135	
Do.....	July 1-Aug. 31.....		231	
Pekalongan.....	June 1-30.....		48	
Do.....	July 1-Aug. 31.....		105	
Samarang.....	June 1-30.....		143	
Do.....	July 1-Aug. 31.....		260	
Soerabaya.....	June 1-30.....		1	
Do.....	Aug. 1-31.....		2	
Soerakarta.....	do.....		109	May 16, 1923: Epidemic in 5 dis-
Do.....	July 1-Aug. 31.....		374	tricts.
Madagascar.....				Apr. 1-June 30, 1923: Cases, 84;
Tananarive Province.....	Apr. 1-June 30.....	60	57	deaths, 81. July 1-Aug. 15,
Do.....	July 1-Aug. 15.....	5	4	1923: Cases, 11; deaths, 9.
Tananarive town.....	Apr. 1-June 30.....	24	24	
Do.....	July 1-Aug. 15.....	6	5	
Mauritius Island.....				May 4-21, 1923: 2 cases.
Port Louis.....	May 4.....	1		
Mexico:				
Tampico.....				Apr. 15-21, 1923: 1 plague rat.
				Aug. 8, 1923. At Dona Cecelia,
				a suburb of Tampico, 1 plague-
				infected rat found. From Jan.
				1 to Aug. 8, 1923, plague-
				infected rats found, 5.
Morocco:				
Dar-Kuebdani.....	Aug. 31-Sept. 13.....	1		Camp in Spanish Zone, Mehilla
Larache (El Arish).....	Nov. 2.....			District.
Melilla.....	Aug. 1-Oct. 19.....	7		Present. Spanish Zone.
Palestine:				
Haifa.....	Sept. 8-Oct. 1.....	2		
Jaffa.....	June 19-July 16.....	10	1	Bubonic and septicemic.
Peru.....				May 1-June 30, 1923: Cases, 111;
Locality—				deaths, 68. July 1-Sept. 30,
Ayabaca.....	May 16-June 30.....	15	13	1923: Cases, 43; deaths, 24.
Do.....	July 1-31.....	4	2	
Callao.....	May 1-June 30.....	5	3	
Do.....	July 1-Sept. 30.....	4	2	
Canete.....	May 16-June 30.....	3	2	
Do.....	July 1-Sept. 30.....	7	4	
Cerro Azul.....	May 1-31.....	3	1	
Chiclayo.....	May 1-June 30.....	9	2	
Do.....	July 1-Aug. 31.....	6	4	
Cutervo.....	May 1-15.....	2	1	
Guadaloupe.....	Sept. 1-30.....			Present.
Huancabamba.....	May 1-June 30.....	34	25	

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

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

**PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Péru—Continued.</b>				
<b>Locality—Continued.</b>				
Huacho.....	July 1-31.....	1	.....	
Huaral.....	June 1-30.....	2	2	
Do.....	July 1-Sept. 30.....	3	1	Sept. 1-30, 1923: Present on country estates.
Lima (city).....	May 1-31.....	17	8	
Do.....	July 1-Sept. 30.....	14	8	
Lima (country).....	May 1-31.....	7	4	
Do.....	July 1-Sept. 30.....	3	2	
Mollendo.....	June 1-30.....	1	1	
Reque.....	Aug. 1-31.....	1	1	
Salaverry.....	May 1-June 30.....	11	3	
Trujillo.....	do.....	2	3	
<b>Portugal:</b>				
Lisbon.....	Oct. 25.....	2	1	
<b>Russia</b> .....				
Jan. 1-May 15, 1923: Few cases in Far East regions.				
<b>Senegal:</b>				
Dakar.....	July 1-31.....	4	4	Reported to have come from port of Rufisque, Senegal.
Rufisque.....	Aug. 6.....			Present.
<b>Siam:</b>				
Bangkok.....	Apr. 20-June 30.....	31	30	
Do.....	July 1-Sept. 29.....	14	13	
<b>Siberia</b> .....				
Sporadic cases of plague reported yearly in localities vicinity of stations Matsievskaya and Borzia, Transbaikai Railway.				
Haramhor.....	May 6.....	1	1	Village in zone of endemic tarabagan (marmot) plague, Transbaikai region.
Station No. 83.....				Station on Transbaikai Railway. Marmot plague during recent years.
Soktu.....				Do.
<b>Straits Settlements:</b>				
Singapore.....	May 6-June 30.....	6	8	
Do.....	July 22-Sept. 29.....	6	6	
<b>Syria:</b>				
Beirut.....	May 12-June 20.....	3	.....	
Do.....	July 1-Sept. 30.....	7	1	
<b>Turkey:</b>				
Constantinople.....	Aug. 19-Sept. 22.....		2	On Aug. 16, 1923, 2 cases reported.
<b>On vessel:</b>				
S. S. Crewe Hall.....	Oct. 15.....	1	.....	At Catania, Italy. Patient embarked at Port Said, Egypt. Vessel left Vizagapatam, India, Aug. 29; at Colombo, Ceylon, Sept. 12; Aden, Sept. 23; Port Sudan, Sept. 26; sailed for New York, Oct. 15, 1923.

**SMALLPOX.**

<b>Algeria:</b>				
Algiers.....	May 1-31.....	2	.....	
Do.....	July 1-Aug. 10.....	3	.....	
<b>Arabia:</b>				
Aden.....	May 27-June 2.....	.....	2	
Do.....	July 8-Sept. 30.....	8	2	
<b>Austria:</b>				
Vienna.....	July 29-Aug. 4.....	1	.....	
<b>Azores:</b>				
St. Michael Island.....	July 15-21.....	7	.....	Mild.
<b>Bolivia:</b>				
La Paz.....	Apr. 1-June 30.....	2	3	
Do.....	Aug. 1-Sept. 30.....	5	6	
<b>Brazil:</b>				
Bahia.....	Aug. 19-Sept. 22.....	6	.....	
Manaos.....				Year 1921: Cases, 2 Year 1922: 1 case.
Pernambuco.....	May 6-June 16.....	5	.....	
Do.....	July 1-Sept. 1.....	46	4	
Rio de Janeiro.....	May 13-June 23.....	25	3	
Do.....	July 15-Oct. 20.....	46	10	
Rio Grande do Sul.....				Jan. 1-Mar. 31, 1923: Present with some mortality.

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

## Reports Received from June 30 to November 30, 1923—Continued.

### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>British East Africa:</b>				
Kenya—				
Mombasa .....	May 20-26 .....	1		From vessel from Bombay Territory.
Tanganyika .....	Apr. 20-June 9 .....	3		
Do .....	July 1-28 .....	27	6	Do.
Uganda—				
Entebbe .....	Apr. 1-30 .....	4		July 1-31, 1923: Cases, 7; deaths, 3.
Zanzibar .....				
<b>Canada:</b>				
Alberta—				
Calgary .....	May 27-June 2 .....	1		Infection from Deer Lodge, Mont.
British Columbia—				
Vancouver .....	May 27-June 30 .....	33	1	
Do .....	July 1-Sept. 15 .....	15	1	
Victoria .....	Aug. 5-25 .....	2		
Manitoba—				
Winnipeg .....	June 3-30 .....	1		
Do .....	July 1-Oct. 27 .....	6		
New Brunswick—				
Kent County .....	July 1-7 .....	1		June 1-30, 1923: Cases, 13, July 1-Sept. 30, 1923: Cases, 48.
<b>Ontario:</b>				
London .....	July 15-21 .....	1		
Toronto .....	June 24-30 .....	3		
Do .....	July 15-21 .....	1		
<b>Quebec—</b>				
Quebec .....	June 10-16 .....	1		Varioloid.
<b>Saskatchewan—</b>				
Moose Jaw .....	July 8-14 .....	1		
Regina .....	June 24-30 .....	3		
Do .....	Oct. 7-13 .....	1		
<b>Ceylon:</b>				
Colombo .....	May 6-June 2 .....	23	1	
<b>Chile:</b>				
Concepcion .....	May 22-June 11 .....		3	June 1-30, 1923: Cases, 2, July 1-31, 1923: 1 death.
Do .....	Sept. 1-30 .....	3	2	
Talcahuano .....	Aug. 12-18 .....	1		Landed from vessel.
Valparaiso .....	May 7-June 23 .....	6	121	July 10-16, 1923: 29 cases reported from 2 districts.
Do .....	July 1-28 .....	12	10	July 30, 1923: 25 cases in lazaretto. Aug. 6: 20 cases. Aug. 14: 60 cases present.
<b>China:</b>				
Amoy .....	May 13-June 23 .....		3	June 19-25, 1923: Present.
Do .....	July 1-Oct. 13 .....			Present.
Antung .....	May 14-20 .....	1		
Canton .....				June 1-30, 1923: Present. July 1-31, 1923: Present.
<b>Chungking—</b>				
Do .....	May 13-June 30 .....			Present and endemic.
Do .....	July 1-Oct. 13 .....			Do.
Foochow .....	May 13-Oct. 13 .....			Present.
<b>Hongkong—</b>				
Do .....	Apr. 29-June 30 .....	98	82	
Do .....	July 1-Sept. 29 .....	86	71	
<b>Manchuria—</b>				
Dairen .....	May 21-27 .....	1		
Harbin .....	May 7-June 24 .....	5		
Do .....	July 1-Sept. 30 .....	11		
Mukden .....	May 13-20 .....	1		
<b>Nanking—</b>				
Do .....	May 13-June 23 .....			Do.
Do .....	June 24-Sept. 22 .....			Do.
<b>Shanghai—</b>				
Do .....	May 21-June 3 .....	4		Foreign. Cases, foreign; deaths, Chinese.
Do .....	July 2-Aug. 26 .....	1	4	
<b>Chosen (Korea):</b>				
Chemulpo .....	May 1-31 .....	1		
Fusan .....	May 1-June 30 .....	4		
Do .....	July 1-31 .....	22	6	
Gensan .....	May 1-31 .....	1		
Seoul .....	May 1-June 30 .....	42	13	
Do .....	July 1-Aug. 31 .....	7	9	
<b>Colombia:</b>				
Barranquilla .....	Oct. 15-21 .....		1	
<b>Cuba:</b>				
Antilla .....	July 8-14 .....		2	From Preston.
<b>Czechoslovakia</b>				
Province—				
Bohemia .....	Jan. 1-Mar. 31 .....	15	4	Jan.-Mar., 1923: Cases, 15. Apr.-June, 1923: Cases, 16; deaths, 4.

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

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

**SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Ecuador:</b>				
Alausi.....	July 16-31.....	3		
Bahia.....	Sept. 1-15.....	4		
Emeraldas.....	Aug. 16-Sept. 15..	5		
Guayaquil.....	May 16-31.....	1		
Jipijapa.....	Sept. 1-15.....	8		
Monte Cristi (Manabi).....	do.....	20		May 16-30, 1923: Present.
Riobama.....	May 16-30.....	1	1	
Rocafuerte.....	do.....			Do.
Santa Ana.....	Sept. 1-15.....	10		
Vinos.....	do.....			Present in district.
Zaruma (El Oro).....	May 16-30.....			Present.
<b>Egypt:</b>				
Cairo.....	Mar. 12-July 1....	24	8	
<b>Estonia.....</b>				June 1-30, 1923: Cases, 4. Aug. 1-31, 1923: Cases, 2.
<b>Finland.....</b>				May 1-15, 1923: 1 case. July 2-31, 1923: 3 cases. Aug. 1-Oct. 15, 1923: 4 cases.
<b>French Guiana.....</b>				Nov.-Dec., 1923: Present. June 6, 1923: Present.
<b>Cayenne.....</b>				Year 1922: Present.
<b>Great Britain:</b>				
Birmingham.....	June 18-30.....	3		Present.
Bristol.....	June 28.....			Do.
Cardiff.....	June 3-30.....	6		
Gloucester.....	June 28.....			
Do.....	July 12.....	19		123 cases reported in hospital; present in rural districts. July 15, 1923: Present. Aug. 9, 1923: 33 cases in isolation hospital; two weeks previously about 250 cases present in hospital.
<b>London.....</b>	Sept. 9-29.....	5	1	Sept. 22, 1923: Additional cases in Middlesex County.
<b>Nottingham.....</b>	June 3-9.....	1		May 1-31, 1923: Cases, 211.
Do.....	July 8-Sept. 22.....	6		
Sheffield.....	Sept. 16-27.....	3		
<b>Greece:</b>				
Athens.....	May 1-31.....	53		
Patras.....	Apr. 24-June 15.....		19	
Saloniki.....	Apr. 30-May 20.....	2	2	
Do.....	June 25-July 8.....	2	3	
<b>Guadeloupe (West Indies).....</b>				July 22-Aug. 4, 1923: Present in epidemic form. (Reported as alastrim.) Aug. 17, 1923: Stated to be officially declared present. Sept. 14-29: Epidemic generally diffused. Oct. 13-24, 1923: Epidemic.
<b>Basse Terre.....</b>	Aug. 17-Oct. 13.....			Present.
<b>Pointe à Pitre.....</b>	Aug. 17.....			Estimated from 2,000 to 3,000 cases. Sept. 2-8, 1923: 1,500 cases present; 8 deaths reported. Oct. 14-20, 1923: 1,000 cases present.
<b>Hungary.....</b>				July 15-Aug. 4, 1923: Cases, 28.
<b>India:</b>				Apr. 15-June 30, 1923: Cases, 8,112; deaths, 2,933. July 1-Sept. 15, 1923: Cases, 10,108; deaths, 2,425.
<b>Bombay.....</b>	Apr. 22-June 30.....	298	141	
Do.....	July 1-Sept. 29.....	75	36	
<b>Calcutta.....</b>	May 13-June 9.....	12	9	
Do.....	July 1-Sept. 8.....	19	14	
<b>Karachi.....</b>	May 13-June 30.....	24	8	
Do.....	July 1-Oct. 13.....	17	5	
<b>Madras.....</b>	May 13-June 23.....	91	16	
Do.....	July 8-Oct. 20.....	63	17	
<b>Rangoon.....</b>	May 6-June 30.....	125	67	
Do.....	July 1-Oct. 13.....	51	19	
<b>Indo-China</b>				Nov. 1-Dec 31, 1922: Cases, 234; deaths, 63.
<b>City—</b>				Including 100 surrounding square kilometers.
Saigon.....	May 20-June 30.....	34	23	Do.
Do.....	July 1-28.....	31	18	
<b>Provinces—</b>				
Annam.....	Nov. 1-30.....	3	1	
Do.....	Jan. 1-Feb. 28.....	10	1	
<b>Cambodge.....</b>	Nov. 1-Dec. 31.....	97	41	
Do.....	Jan. 1-Feb. 28.....	63	17	

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

### Reports Received from June 30 to November 30, 1923—Continued.

#### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China—Continued.				
Provinces—Continued.				
Cochin-China				
	Nov. 1-Dec. 31	125	34	
Do.	Jan. 1-Feb. 28	231	67	
Laos	Feb. 1-28			A few cases.
Tonkin	Dec. 1-31	9	1	
Do.	Jan. 1-Feb. 28	69	13	
Iraq (Mesopotamia):				
Bagdad	Apr. 1-June 30	22	11	
Do.	July 31-Sept. 4	13		
Basrah	Sept. 25-Oct. 9	3	1	
Italy:				
Leghorn	Sept. 17-23	6		
Turin	May 28-June 3	1		
Do.	July 2-15	2		
Jamaica				
Kingston	May 27-June 30	39		May 27-June 30, 1923: Cases, 226.
Do.	July 1-Oct. 27	48		July 1-Oct. 27, 1923: Cases, 450. (Reported as alastrim.)
Japan:				
Kobe	May 28-June 10	2		
Do.	July 2-8	1		
Java:				
East Java				
Soerabaya	Apr. 22-June 30	187	22	Aug. 26-Sept. 1, 1923: Cases, 36; deaths, 3.
Do.	July 15-Sept. 15	128	21	
Soerakarta				July 31, 1923: Epidemic.
West Java—				
Batavia	May 5-June 8	17	3	Province.
Do.	June 30-Sept. 7	3	1	Do.
Latvia				Apr. 1-May 31, 1923: Cases, 8. Aug. 1-31, 1923, 1 case.
Martinique				May 26-Sept. 29, 1923: Present.
Mexico:				
Aguascalientes	July 8-14		1	
Chihuahua	June 11-24	7		
Guadalajara	July 22-Sept. 22		10	June 1-30, 1923: Cases, 15; deaths, 2.
Mexico City	May 19-June 30	164		Including municipalities in Federal district.
Do.	July 1-Oct. 6	204		Do.
Palestine:				
Jaffa	June 5-11	1		
Persia:				
Tabriz	Apr. 1-June 30		2	District.
Teheran	Feb. 22-June 14		30	Mar. 22-June 22, 1923: Deaths, 12.
Do.	July 24-Aug. 24		1	June 23-July 22, 1923: Deaths, 9.
Poland				Apr. 29-June 30, 1924: Cases, 1,861; deaths, 43. July 1-Aug. 12, 1923: Cases, 20; deaths, 6.
Portugal:				
Lisbon	May 20-June 30	35	3	
Do.	July 1-Sept. 29	46	12	
Oporto	June 10-30	6	3	
Do.	July 9-Oct. 27	73	56	
Portuguese West Africa:				
Angola—				
Loanda	Apr. 1-21	2		
Do.	July 29-Aug. 18		2	
Rhodesia (British Africa):				
Northern Rhodesia	May 8-14	21	8	
Southern Rhodesia	May 3-16	4	2	
Siam:				
Bangkok	Apr. 29-June 30	90	53	
Do.	July 1-Sept. 29	379	222	Apr. 22-Aug. 25, 1923: Cases, 329; deaths, 184. Sept. 8, 1923: Re- ported prevalent.
Sierra Leone:				
Freetown	July 16-13	1		Landed from S. S. Tsad, from Southampton via Las Palmas. In Sembahun district.
Kaballa	May 1-15	1		
Pujehun	May 16-31	1		
Sambuya	Aug. 1-15	1		
Spain:				
Barcelona	May 31-June 6		1	
Do.	June 28-Oct. 17		9	

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

Reports Received from June 30 to November 30, 1923—Continued.

### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Spain—Continued.				
Seville.....	July 19-25.....	.....	1	
Valencia.....	May 15-June 30.....	44	2	
Do.....	July 1-Oct. 27.....	23	11	
Switzerland:				
Basel.....	May 27-June 30.....	4	.....	
Do.....	July 8-Aug. 25.....	8	.....	
Berne.....	May 20-June 30.....	11	.....	
Do.....	July 1-Sept. 29.....	14	.....	
Luzerne.....	May 1-June 7.....	36	.....	
Do.....	July 1-Sept. 30.....	18	.....	
Zurich.....	May 20-June 23.....	10	.....	
Do.....	July 15-Sept. 15.....	9	.....	
Syria:				
Aleppo.....	July 15-31.....	6	.....	
Damascus.....	May 15-June 11.....	7	.....	
Do.....	Aug. 16-Oct. 2.....	11	1	
Tunis:				
Bizerta.....	June 10-20.....	1	.....	
Tunis.....	June 11-17.....	1	.....	
Do.....	June 26-July 1.....	1	.....	
Turkey:				
Constantinople.....	May 13-June 26.....	.....	45	
Do.....	June 27-Sept. 22.....	1	18	
Union of South Africa.....				
Cape Province.....				
Do.....	May 6-June 30.....	.....	.....	May 1-June 30, 1923: Cases, 66; deaths, 1 (colored), July 1-31, 1923: Cases, 17 (colored).
Do.....	July 1-Sept. 15.....	.....	.....	May 1-31, 1923: Cases, 32 (colored), July 1-31, 1923: Cases, 10 (colored).
East London.....	July 8-14.....	1	.....	Outbreaks. Do.
Natal.....	do.....	.....	.....	July 1-31, 1923: 1 case (colored). Outbreaks.
Orange Free State.....	Apr. 29-June 30.....	.....	.....	July 1-31, 1923: Cases, 4 (colored). Outbreaks.
Do.....	Sept. 9-15.....	.....	.....	May 1-31, 1923: 1 case. July 1-31, 1923: Cases, 2 (colored). Outbreaks.
Transvaal.....	.....	.....	.....	July 1-Aug. 25, 1923: Cases, 150; deaths, 22.
Do.....	July 1-Aug. 31.....	.....	.....	
Yugoslavia.....				
Province—				
Bosnia-Herzegovina.....	July 1-7.....	1	.....	
Croatia-Slavonia.....	do.....	4	1	
Zagreb.....	June 24-30.....	1	.....	
Serbia.....	July 1-7.....	2	1	
Belgrade.....	June 10-16.....	1	1	
Do.....	July 8-14.....	1	1	
Voivodina.....	July 1-7.....	1	.....	
On vessels:				
S. S. Kargola.....	May 20-26.....	1	.....	At Mombasa, British East Africa. Vessel arrived from Bombay, Mar. 25, 1923.
S. S. Makura.....	May 26.....	2	.....	Two cases in quarantine (reported as alastrim). Vessel left Victoria, B. C., Apr. 23, 1923. Touched at Honolulu.
S. S. Tsad.....	July 16-31.....	1	.....	At Freetown, Sierra Leone, Africa, from European and West African ports.
S. S. —.....	Aug. 12-18.....	1	.....	Landed at Talcahuano, Chile.

### TYPHUS FEVER.

Algeria:				
Algiers.....	May 1-June 30.....	66	19	
Do.....	.....	.....	.....	July 1-Sept. 30, 1923: Cases, 6; deaths, 6.
Argentina:				
Rosario.....	May 25-31.....	.....	3	
Bolivia:				
La Paz.....	June 1-30.....	4	.....	
Do.....	July 1-Sept. 30.....	18	.....	



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

Reports Received from June 30 to November 30, 1923—Continued.

### TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Bulgaria:				
Sofia.....	Apr. 22-June 23...	11	2	Paratyphus, 2 cases; 2 deaths.
Do.....	July 15-Sept. 1....	17	1	Paratyphus, 5 cases. Sept. 2-29, 1923: Paratyphus, cases 6.
Canary Islands:				
Teneriffe.....	Nov. 6.....			Present.
Chile:				
Antofagasta.....	Oct. 21-27.....	8	1	
Concepcion.....	May 22-June 18.....		3	
Do.....	Aug. 7-Sept. 30.....		2	
Iquique.....	Sept. 2-Oct. 13.....		2	
Talcahuano.....	May 13-19.....	1		
Valparaiso.....	May 7-June 23.....		26	
Do.....	July 1-Aug. 24.....		48	June 11, 1923: 34 cases in Salvador Hospital, July 30, 1923; 45 cases in hospital, Aug. 6: 58 cases. Aug. 12-18: 82 cases stated to be present. Aug. 25: 88 cases in lazaretto.
China:				
Antung.....	May 28-June 24.....	12		
Do.....	July 16-Oct. 14.....	6		
Chuangking.....	Aug. 26-Oct. 13.....			Endemic.
Hankow.....	May 19-25.....	1		
Manchuria—				
Harbin.....	May 6-13.....	1		
Do.....	Aug. 27-Sept. 2.....	2		
Mukden.....	May 14-20.....	2		
Czechoslovakia				
Province—				
Bohemia.....	Apr. 1-June 30.....	8		Jan.-Mar., 1923: Cases, 191; deaths, 6. Apr. 1-June 30: Cases, 132; deaths, 4. Paratyphoid A, 1; paratyphoid B, 20.
Moravia.....	do.....	2		
Russinia.....	do.....	98	1	
Silesia.....	do.....	1	1	
Slovakia.....	do.....	23	2	
Egypt:				
Alexandria.....	May 14-June 24.....	7	5	
Do.....	June 25-Sept. 16.....	11	6	Paratyphoid fever, 2 cases.
Cairo.....	Apr. 12-June 24.....	44	29	
Do.....	June 25-Aug. 5.....	24	21	
Port Said.....	Aug. 3-19.....	1		
Esthonia.....				June 1-30, 1923: Recurrent typhus, 1 case; paratyphus, 2 cases.
Finland.....	Sept. 16-30.....	1		Aug. 1-Oct. 15, 1923: Paratyphus, 109 cases. Sept. 1-15, 1923: One case recurrent typhus.
France:				
Marseille.....	Mar. 1-May 31.....		3	
Germany:				
Coblentz.....	May 27-June 2.....		1	
Do.....	July 29-Sept. 22.....	10		
Hamburg.....	May 20-26.....	3		
Do.....	July 29-Aug. 4.....	1		Case developed July 28, 1923, at Emigration Hall, Hamburg.
Konigsberg.....	May 13-June 2.....	2		
Do.....	Aug. 12-18.....	1		
Stettin.....	May 27-June 9.....	1	1	
Stuttgart.....	Sept. 2-22.....	4		
Great Britain:				
Ireland—				
Cork.....	Aug. 19-25.....	1	1	
Greece:				
Athens.....	May 1-31.....	150	5	May 1-31, 1923: Cases, 876.
Do.....	July 22-31.....		1	
Patras.....	Apr. 24-June 15.....		30	
Do.....	Aug. 16-31.....		2	
Piræes.....	May 1-June 30.....	356	11	
Do.....	July 1-10.....	3		
Saloniki.....	Apr. 30-June 24.....	56	16	Apr. 30-May 27, 1923: Recurrent typhus: Cases, 3; deaths, 3
Do.....	July 9-15.....	1		
Guatemala:				
Guatemala City.....	Apr. 1-June 30.....		5	
Hungary:				
Budapest.....	Jan. 1-June 2.....	48	12	Jan. 1-May 19, 1923: Cases, 318; deaths, 36. In 11 counties.
Do.....	Sept. 2-8.....	1		
Iraq (Mesopotamia):				
Bagdad.....	Apr. 1-June 30.....	3		
Do.....	Aug. 8-15.....	1	1	

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

## Reports Received from June 30 to November 30, 1923—Continued.

### TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Nagasaki.....	July 2-8.....	1		
Java:				
East Java— Soerabaya.....	July 29-Aug. 18..	16	3	
Latvia.....				Apr. 1-June 30, 1923: Cases, 231; paratyphus, 5 cases. June 1-Aug. 31, 1923: Cases, 86; paratyphus, 11 cases; recurrent typhus, 1 case.
Mexico:				
Guadalajara.....	June 1-30.....	1		Sept. 16-22, 1923: One death.
Do.....	July 1-Oct. 30.....	2	1	
Mexico City.....	May 20-June 30.....	75		Including municipalities in Federal District.
Do.....	July 1-Sept. 29.....	142		Do.
San Luis Potosi.....	July 29-Aug. 4.....		1	
Palestine.....				Aug. 14-20, 1923: One case, in northern district.
Haifa.....	Oct. 16-22.....	1		
Jaffa.....	May 22-28.....	2		
Do.....	June 26-Oct. 1.....	7		Relapsing fever, 1 case.
Jerusalem.....	May 22-28.....	1		
Persia:				
Tabriz.....	Apr. 1-14.....	2		
Teheran.....	Feb. 22-June 14.....		4	
Do.....	July 1-22.....		1	
Poland.....				Mar. 4-Apr. 7, 1923: Cases, 2,253; deaths, 172. Recurrent typhus: Cases, 338; deaths, 6. Apr. 29-June 30, 1923: Cases, 2,206; deaths, 177. July 1-Aug. 18, 1923: Cases, 544; deaths, 46. Recurrent typhus: Apr. 29-June 23, 1923: Cases, 337; deaths, 3. July 1-Aug. 18, 1923: Cases, 102; deaths, 4.
Portugal:				
Oporto.....	June 10-16.....	1		
Do.....	July 1-21.....	3		
Rumania:				
Kishineff.....	May 1-June 30.....	41		
Do.....	Aug. 1-31.....	10		District.
Russia.....				Jan. 1-Apr. 30, 1923: Cases, 106,854. (Corresponding period 1922: Cases, 847,516.) Feb. 1-28, 1923: Cases, 17,577. Recurrent typhus, Jan. 1-Feb. 28, 1923: Cases, 43,540.
European Russia and autonomous republics.....	Jan. 1-Apr. 30.....	93,999		
Siberia, Caucasus, and Central Asia.....	do.....	9,921		
Waterways and railways.....	do.....	2,934		
Spain:				
Barcelona.....	June 21-27.....		1	
Do.....	Aug. 23-Oct. 3.....		13	
Madrid.....	May 1-31.....		1	
Do.....	July 1-31.....		2	
Sumatra:				
Medan.....	May 1-June 30.....	34		
Switzerland:				
Zurich.....				Sept. 16-22, 1923: Paratyphus fever, cases, 5.
Syria:				
Aleppo.....	May 20-June 16.....	4	2	
Do.....	July 15-21.....	3	1	
Beirut.....	May 1-10.....	1		
Tunis:				
Tunis.....	May 28-June 24.....	3	2	
Do.....	July 9-Oct. 7.....	1	2	
Turkey:				
Constantinople.....	May 13-June 26.....		19	
Do.....	June 27-Sept. 22.....	5	11	
Union of South Africa.....				May 1-June 30, 1923: Cases, 230; deaths, 47 (colored). White—Cases, 15; deaths, 1. Total, 245 cases, 48 deaths. July 1-31, 1923: Cases, 133 (colored, 132 cases; white, 1 case); deaths, 24.

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

Reports Received from June 30 to November 30, 1923—Continued.

### TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Con. Cape Province.....				May 1-31, 1923: Cases, 49 (colored); white, 5. July 1-31, 1923: Cases, 94; deaths, 21 (colored).
Do.....	Aug. 12-Sept. 22.....			Outbreaks.
Natal.....				May 1-31, 1923: One case (colored).
Orange Free State.....				May 1-31, 1923: Cases, 45 (colored). July 1-31, 1923: Cases, 36; deaths, 3 (colored). One case in white population.
Do.....	May 6-June 16.....			Outbreaks.
Do.....	Aug. 12-Sept. 29.....			Do.
Transvaal.....				May 1-31, 1923: Cases, 7. July 1-31, 1923: Cases, 2 (colored).
Johannesburg.....	May 1-June 30.....	4	4	
Do.....	Oct. 6-13.....	1		
Yugoslavia.....				July 1-7, 1923: Cases, 4.
Province—				
Bosnia-Herzegovina.....	July 1-7.....	4		
Croatia-Slavonia—				
Zagreb.....	May 27-June 2.....	1		
Serbia—				
Belgrade.....	Aug. 12-18.....	1		

### YELLOW FEVER.

Brazil:				
Bahia.....	May 13-June 30.....	25	6	
Do.....	July 1-Sept. 8.....	13	6	
Colombia:				
Bucaramanga.....	June 25-Aug. 26.....			Present.

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