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## EIGHT YEARS OF EPIDEMIC POLIOMYELITIS IN MONTANA.

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In 1915 there were reported in Montana 2 cases of epidemic poliomyelitis with 1 death. In 1916 there were reported 111 cases and 24 deaths, a morbidity rate of 24.2 and a mortality rate of 5.2 per 100,000 population. While these cases and deaths were reported from 12 counties, there occurred a distinct explosive outbreak with Yellowstone County and the city of Billings as foci, the majority of cases occurring within that county and in counties immediately surrounding the area of the outbreak, extending from Miles City, Custer County, on the east, to Livingston, Park County, on the west. Sporadic cases were reported in Cascade, Sheridan, and Toole Counties.

The first case to be diagnosed occurred July 11 at Pryor, an inland point on the Crow Indian Reservation in Big Horn County, 25 miles south of Billings and 18 miles east of the nearest railroad point, Fromberg, in Carbon County. There was a history of previous visits and railway travel by Indian citizens of the reservation to both Fromberg and Billings. While difference of opinion existed as to the original source of the outbreak, the pandemic prevalence of the disease in Eastern States, beginning in May, 1916, suggests the source, and a large exodus of carriers from the eastern infected areas indicates the probable means of transmission to the Montana districts attacked.

The area immediately surrounding Billings and extending into that portion of Carbon County adjoining the Crow Reservation 50 miles southwest of Billings, suffered most. Seventeen cases and 3 deaths were reported among Indians at Pryor (see article by J. A. Murphy, Medical Supervisor U. S. I. D., Jour. Am. Med. Assn., vol. 67, No. 17, October 21, 1916, p. 1247).

Since the abortive type of the disease was not generally recognized, and it was the rule to report only those cases manifesting frank paralysis, it may be assumed that the number of cases reported reflects a minority of the actual infections occurring. At any rate,

surveys made in later years to discover the actual number of crippled children in Montana counties reveals a surprising number of paralyses referable to that year, many of which received no medical attention. It is difficult to estimate the actual number of all types of cases occurring in 1916; but it is safe to admit that probably not more than 20 to 25 per cent were detected and reported. In this event the actual fatality rate of 21.6 would be materially reduced.

The annual prevalence of epidemic poliomyelitis during the following years is given in Table I. The morbidity and mortality rates are rates per 100,000 population; the fatality rate is the percentage of cases terminating fatally.

TABLE I.—*Prevalence of poliomyelitis in Montana, 1917-1922.*

Year.	Number of counties reporting.	Number of cases.	Number of deaths.	Morbidity rate.	Mortality rate.	Fatality rate.
1917.....	10	37	8	7.8	1.6	21.6
1918.....	7	8	7	1.6	1.3	87.5
1919.....	8	9	3	1.8	.6	33.3
1920.....	12	27	5	4.8	.9	18.5
1921.....	16	26	3	4.5	.5	11.5
1922.....	7	48	7	8.1	1.2	14.5

During the period 1917 to 1921, inclusive, all cases were sporadic and widely distributed, with only two exceptions:

(1) Of the 37 cases and eight deaths occurring in 1917, distributed in 10 counties, 12 cases and two deaths occurred in Cascade County, with the city of Great Falls as a focus. The fatality rate in this outbreak was 16.7 per cent as compared with the general State rate of 21.6.

(2) Of the 27 cases and five deaths occurring in 1920, 9 cases and three deaths occurred in Ravalli County, with the city of Hamilton as a focus. In this little outbreak the fatality rate was 33.3 per cent, as compared with a general State average of 18.5. However, the number of cases reported from Hamilton covers only those with frank paralysis. Investigation indicated a large number of cases of the abortive type, approximating 80 to 100. In fact, a general epidemic of so-called "bilious attacks," "la grippe," "colds," and "tonsillitis" occurred among both children and young adults during the period in which 9 cases of poliomyelitis were reported; and several of these 9 patients gave history of recent previous contact with apparently harmless "colds (?)." An unusual feature of this outbreak was its appearance in late September, October, and November, months in which early winter weather occurred.

During this entire period (1917-1921) only one case of poliomyelitis was reported in Yellowstone County (1 case in 1921); but in 1922 it again became an epidemic focus.

Of the 48 cases and seven deaths occurring in 1922, 42 cases and four deaths occurred in Yellowstone County—34 cases and four deaths in the city of Billings, and 8 cases with no deaths in the rural area immediately adjacent. Cases occurred in other counties as follows: Sweet Grass, 1 in January; Flathead, 1 in February; Wheatland, 1 in May; Rosebud, 1 in August; Wibaux, 1 in August; Stillwater, 1 in September.

The first case in Yellowstone County occurred January 6. No more cases appeared until July 14. The cases occurred, by months, as follows: January, 1 case; July, 6 cases; August, 26 cases; September, 9 cases.

The last case appeared September 15. Table III gives a brief history of these 42 cases. Interest is attached through the fact that the antipoliomyelitic serum advocated by Dr. E. C. Rosenow was used in the treatment of a large group of cases.

Analysis reveals that of the 42 cases, 10, or 23.8 per cent, were diagnosed as abortive types; 25, or 59.5 per cent, were afflicted with frank paralyzes; and 7, or 16.7 per cent, were of the bulbar types. From footnotes it may be observed that 15 other persons gave a history of having had abortive attacks; and it was freely admitted that many persons in immediate neighborhoods where the disease occurred were afflicted with symptoms suggestive of abortive poliomyelitis.

The results of treatment of the 42 known cases is given in Table II.

TABLE II.—Results of treatment of 42 cases in Yellowstone County.

Type of disease.	Treated.		Complete recovery.		Paralysis remaining.		Died.	
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
Abortive.....	8	2	8	2	0	0	0	0
Paralytic.....	22	3	13	1	9	2	0	0
Bulbar.....	5	2	1	0	2	0	2	2
Total.....	35	7	22	3	11	2	2	2
Per cent.....	83.3	16.7	c 62.9	d 42.8	c 31.4	d 28.6	c 5.7	d 28.6

<sup>a</sup> Treated by serum.

<sup>b</sup> Treated symptomatically.

<sup>c</sup> Percentage of 35 cases treated by serum.

<sup>d</sup> Percentage of 7 cases treated symptomatically.

Since a large number of abortive cases occurred which received no treatment and which can not be computed, it is only fair to omit all abortive cases from the tabulation. In this event we find that of the 27 cases of the paralytic or bulbar types treated by serum, 52.9 per cent made complete recoveries, 40.7 per cent have paralysis remaining, and 7.4 per cent died. Of the 5 cases treated symptomatically, 20 per cent made complete recovery, 40 per cent have paralysis remaining, and 40 per cent died.

Because of the small number of cases in each group and especially in the group not receiving serum, conclusions are difficult; but on the face of the data it might appear that the use of serum is advantageous. In several instances it was noted that following spinal puncture for the purpose of diagnosis, improvement began immediately, even before the administration of serum. The possibility of relief afforded by spinal puncture should be eliminated as a factor if curative value of serum is to be finally determined.

#### CONCLUSIONS.

(1) The study of poliomyelitis in Montana indicates that the disease does not originate without previous contact with infected individuals. These infected persons may be only (a) immune carriers, (b) sufferers of mild or abortive attacks, or (c) recognized cases.

(2) With exception of a few cases in isolated rural areas, outbreaks tend to occur along principal interstate and intrastate travel routes.

(3) Considerable distances between Montana cities afford some natural protection against rapid spread of the disease.

(4) Without large, congested population centers, little opportunity is afforded for acquisition of immunity by contact with mild infections. Rapid spread and a fatality rate higher than usual may ordinarily be expected in isolated communities when infection is introduced.

(5) Isolation or quarantine control measures are clearly ineffective without a common knowledge of the importance of recognition of the mild and abortive type cases.

(6) The value of antipoliomyelitic serum is regarded as neither proved or unproved. Its use appears to be without harmful results, of possible advantage, and apparently worthy of further administration and study.

TABLE III.—*Brief history of 42 cases of poliomyelitis occurring in Yellowstone County and city of Billings, Mont., 1922.*

No. of patient.	Age.	Sex.	Attending physician.	Date of Onset.	Type of disease.	Distribution of paralysis.	Treatment.	Termination or status on Nov. 30.
1	3 years.	F.	James Wernham, Billings.	Jan. 6	Frank	Left leg below knee.	Symptomatic	Complete recovery.
2	19 months.	F.	Fred B. Clarke, Billings.	July 14	do.	Incomplete; both legs. Deltoid reflexes absent.	Serum.	Shoulder muscles recovered; still unable to stand.
3	18 months.	F.	F. L. Arnold, Billings.	July 17	Abortive	None.	Symptomatic	Complete recovery.
14	5 years.	M.	do.	July 18	Frank	Both deltoids; both legs	do.	Deltoids still weak; slight paralysis of legs remains.
5	10 months.	F.	F. B. Clarke, Billings.	July 19	do.	Lumbar muscles.	do.	Recovery seems complete.
6	3 years.	M.	R. C. Main, Billings.	July 29	do.	Both legs.	do.	Legs still involved.
7	18 months.	F.	F. L. Arnold, Billings.	do.	Abortive	None. Diagnosis on spinal fluid findings.	Symptomatic	Complete recovery.
28	3 years.	F.	do.	Aug. 1	Frank	Cervical lumbar; both legs.	Serum.	Noticeable dragging one foot, when fatigued only.
29	9 years.	M.	J. I. Wernham, Billings.	Aug. 5	do.	Right leg, right arm.	do.	Slight paralysis remains.
10	5 years.	M.	C. V. Grousel, Billings.	Aug. 6	Frank (diagnosis established on spinal puncture).	Both legs; opisthotonus.	do.	Complete recovery.
41	do.	M.	F. B. Clarke, Billings.	Aug. 7	Bulbar.	Throat; respiratory.	do.	Died Aug. 10.
12	18 months.	F.	do.	Aug. 8	Abortive	None.	do.	Complete recovery.
13	6 years.	M.	E. G. Balsam, Billings.	Aug. 10	Frank.	Toe drop.	Serum (8 or 10 days after onset).	Do.
14	3 years.	M.	L. W. Allard, Billings.	Aug. 13	do.	Right quadriceps femoris.	Symptomatic	Paralysis remaining; unable to walk.
15	do.	M.	T. M. Moore, Billings.	do.	Bulbar.	Throat; respiratory	do.	Died Aug. 13.
16	13 months.	F.	C. V. Grousel, Billings.	Aug. 14	Frank.	Cervical only.	Serum.	Complete recovery.
617	8 years.	M.	R. J. Hanley, Billings.	do.	Abortive	None.	do.	Do.
18	10 years.	F.	do.	Aug. 16	Frank.	Both legs; both arms.	do.	Unable to learn (classified as recovered).
19	18 years.	F.	A. J. Movious, Billings.	do.	Bulbar.	Throat and respiratory (prognosis complicating).	Symptomatic	Died Aug. 19.
20	do.	F.	F. H. Clark, Billings.	do.	do.	Cervical; both shoulders and arms; right leg.	Serum.	Shoulders still involved. (A neurasthenic case, exact involvement difficult to determine.)
21	2 years.	M.	J. H. Breidenbaugh, Billings.	Aug. 17	Frank.	Seventh nerve, left side.	do.	Complete recovery.
622	4 years.	M.	R. J. Henley, Billings.	Aug. 19	do.	Cervical, legs.	do.	Do.
723	1 year.	M.	F. B. Clarke, Billings.	Aug. 20	do.	None. Opisthotonus loss of reflexes; fever.	do.	Complete recovery.

1 Cases 3 and 4 were brother and sister. In addition, another sister, aged 4, and a cousin, aged 2, on same premises, had abortive attacks.

2 Sister of case 7.

3 Two other children suffered from abortive attacks in previous two weeks.

4 Played with cases 7 and 8.

5 Cases 17 and 18 brother and sister. Physician comments that all children in neighborhood have been ill.

6 Four sisters, aged 1, 3, 9, and 10, had fever, headache, vomiting, and diarrhea, but no paralysis.

7 Associated with case 10 on Aug. 6.

TABLE III.—*Brief history of 42 cases of poliomyelitis occurring in Yellowstone County and city of Billings, Mont., 1922—Continued.*

No. of patient.	Age.	Sex.	Attending physician.	Date of Onset.	Type of disease.	Distribution of paralysis.	Treatment.	Termination or status on Nov. 30.
24	11 months.	M.	F. B. Clarke, Billings.	Aug. 21	Abortive.	None.	Serum.	Complete recovery.
25	11 years.	F.	do.	do.	do.	None. Knee reflex absent.	do.	Do.
26	18 years.	F.	do.	Aug. 22	Frank (pregnancy complicating)	None. Diagnosis made on spinal fluid findings.	Serum (70 c. c.)	Complete recovery (without abortion).
27	20 months.	M.	F. L. Arnold, Billings.	do.	Frank.	Right leg; left shoulder.	Serum (30 c. c.)	Complete recovery.
28	5 years.	M.	E. W. Theurer, Billings.	Aug. 25	Abortive.	None.	Serum (on day of onset)	Do.
29	7 years.	F.	J. H. Briedenbaugh, Billings.	do.	Bulbar.	Dysphagia—loss of speech.	Serum.	Dysphagia remains.
30	3 years.	M.	F. L. Arnold, Billings.	do.	Frank.	Left arm, also right foot, following administration of serum.	do.	Complete recovery.
31	do.	F.	J. Chapple, Billings.	Aug. 27	do.	Both deltoids, right leg.	do.	Difficulty in walking and standing persists.
32	5 years.	M.	F. B. Clarke, Billings.	Aug. 29	Abortive.	None.	do.	Complete recovery.
33	2 years.	M.	F. L. Arnold, Billings.	Aug. 30	Frank.	Right leg.	do.	Do.
34	9 years.	M.	J. H. Wernham, Billings.	Sept. 1	do.	Both anterior tibia.	do.	Residual paralysis; toe drag.
35	12 years.	M.	J. I. Wernham, Billings.	Sept. 2	Abortive.	None.	do.	Complete recovery.
36	16 years.	M.	F. B. Clarke, Billings.	Sept. 5	Frank.	Both legs.	do.	Still unable to walk.
37	23 years.	F.	E. M. Farr, Billings.	Sept. 10	do.	Right quadriceps femoris.	Symptomatic.	Toe drag when fatigued.
38	12 years.	F.	A. J. Movius, Billings.	Sept. 12	Bulbar.	Throat and respiratory.	Serum (large doses)	Died Sept. 14.
39	4 years.	M.	F. L. Arnold, Billings.	do.	do.	Pharyngeal.	Serum.	Complete recovery.
40	2 years.	M.	do.	do.	Abortive.	None.	do.	Do.
41	7 years.	F.	W. J. Robb, Broadview.	Sept. 14	Frank.	Left leg.	Serum (on seventh day).	Toe drag and limp remain.
42	9 months.	M.	L. W. Allard, Billings.	Sept. 15	do.	None. Diagnosis on spinal fluid; loss of knee reflex; opisthotonus.	Serum.	Complete recovery.

<sup>8</sup> See case 23.  
<sup>9</sup> Mother had tonsillitis Aug. 12 to 20.  
<sup>10</sup> Lived in same residence with case 30.  
<sup>11</sup> Two brothers had abortive attacks on Aug. 10; a sister on Aug. 23.  
<sup>12</sup> See case 30.  
<sup>13</sup> Physician comments: "A male, aged 9, and two females, aged 15 and 17, had attacks of la grippe (?) lasting two days while Verma (41) was ill."

See case 23.

## INFLUENZA IN THE UNITED STATES.

The following table shows the number of cases of influenza reported by State health officers for the weeks ended January 13 and January 20, 1923, compared with similar reports for the corresponding weeks of the years 1922, 1921, and 1920.

Similar tables covering the period from October 1, 1922, to January 6, 1923, were published in the Public Health Reports December 29, 1922, page 3204, and January 12, 1923, page 64.

*Cases of influenza reported weekly by telegraph by State health officers, January 7 to January 20, 1923 (inclusive), and corresponding weeks of 1922, 1921, and 1920.*

State and year.	Second week.	Third week.	State and year.	Second week.	Third week.
<b>New England Division:</b>			<b>West North Central Division—Con.</b>		
Maine—			Kansas—		
1923.....	6	4	1923.....	14	38
1922.....	9	18	1922.....	23	83
1921.....	6	14	1921.....	9	18
1920.....	1	4	1920.....	17	(1)
Massachusetts—			<b>South Atlantic Division:</b>		
1923.....	162	138	Delaware—		
1922.....	12	13	1923.....	25	5
1921.....	63	39	1922.....	12	12
1920.....	40	54	1921.....	1	1
Connecticut—			1920.....		
1923.....	50	43	Maryland—		
1922.....	7	9	1923.....	318	547
1921.....	14	13	1922.....	40	52
1920.....	1	14	1921.....	79	82
<b>Middle Atlantic Division:</b>			1920.....		
New York (exclusive of New York City)—			District of Columbia—		
1923.....	187	212	1923.....	26	67
1922.....	48	80	1922.....	3	26
1921.....	109	96	1921.....	2	2
1920.....	31	61	West Virginia—		
New York City—			1923.....	188	285
1923.....	143	169	1922.....	1,842	(1)
1922.....	57	110	Georgia—		
1921.....	78	84	1923.....	885	744
1920.....	384	5,690	1922.....	19	52
New Jersey—			1921.....	24	26
1923.....	49	47	1920.....	27	27
1922.....	36	40	Florida—		
1921.....	26	22	1923.....	87	71
1920.....	23	98	1922.....	6	21
<b>East North Central Division:</b>			1921.....	3	4
Illinois—			1920.....	2	10
1923.....	87	168	<b>East South Central Division:</b>		
1922.....	49	38	Kentucky—		
1921.....	18	270	1923.....	958	(1)
1920.....	73	3,251	1922.....	25	35
Wisconsin—			1921.....	(1)	40
1923.....	47	69	1920.....	45	75
1922.....	17	59	Alabama—		
1921.....	81	44	1923.....	2,152	1,181
1920.....	3	67	1922.....		5
<b>West North Central Division:</b>			Mississippi—		
Minnesota—			1923.....	2,550	7,449
1923.....		1	<b>West South Central Division:</b>		
1922.....	2		Arkansas—		
1921.....		1	1923.....	875	3,446
Missouri—			1922.....	40	64
1923.....	472	808	1921.....	78	75
1922.....	16	8	1920.....	35	53
1921.....	48	40	Louisiana—		
Nebraska—			1923.....	12	54
1923.....	39	23	1922.....	8	4
1921.....	4	1	1920.....	52	27
1920.....	2	1	Texas—		
			1923.....	76	5
			1922.....		
			1921.....	24	

<sup>1</sup> No report.

<sup>2</sup> Eleven cases reported for two weeks ending Jan. 28.

<sup>3</sup> Sixty-nine cases reported for two weeks ending Jan. 28.

Cases of influenza reported weekly by telegraph by State health officers, January 7 to January 20, 1923 (inclusive), and corresponding weeks of 1922, 1921, and 1920—Contd.

State and year.	Second week.	Third week.	State and year.	Second week.	Third week.
<b>Mountain Division:</b>			<b>Pacific Division:</b>		
Colorado—			California—		
1923.....	1		1923.....	42	139
1922.....		3	1922.....		28
New Mexico—			1921.....	23	30
1923.....	36	11	1920.....	24	264
1922.....		1			
1920.....	8	4			

### FREE DENTAL DISPENSARY FOR DESTITUTE SCHOOL CHILDREN AT CIENFUEGOS, CUBA.

American Consul Frank Bohr, at Cienfuegos, Cuba, reports under date of December 30, 1922, as follows:

Through the initiative of the Rotary Club of Cienfuegos, provision has been made for the establishment of a free dental dispensary for the destitute school children of this city, and it is understood that prices have been requested from dental supply houses in the United States on the necessary equipment and supplies for clinics of one and two operating dentists. A number of the local dentists have also generously offered their services gratis in order that the children of the poorer classes may have the opportunity of properly caring for their teeth, and also that all classes may likewise be duly impressed with the importance of such care.

### MORTALITY FROM TYPHOID, TUBERCULOSIS, AND PNEUMONIA IN 43 LARGE CITIES, 1922.

The provisional death rate for 62 large cities (27,500,000 population) for 1922 was given by the Bureau of the Census<sup>1</sup> as 12.5 per 1,000, second only to the record low rate, 12.1, for the same cities in 1921.

The following summary for 43 cities, by certain causes, shows a typhoid fever death rate of 3.1 per 100,000 population in 1922 against a rate of 3.6 in 1921. The highest rate shown for 1922 is 16.7, for Nashville, Tenn., and the lowest rate is zero, for New Bedford, Mass., and Providence, R. I., in which places no deaths from typhoid fever occurred during the year.

For tuberculosis (all forms) the rate for 1922 was 99.7 per 100,000 population as against 104.5 in 1921.

For pneumonia (all forms) the rate for 1922 was 137.8 as against 106.7 in 1921.

<sup>1</sup> Public Health Reports, vol. 38, No. 3, Jan. 19, 1923, p. 104

*Mortality summary for the 43 cities which reported each week during the year 1922, the deaths from typhoid fever, tuberculosis (all forms), pneumonia (all forms), and violence, and comparison with 1921.*

[From the Weekly Health Index, Bureau of the Census, Jan. 13, 1923.]

City.	Typhoid fever.		Tuberculosis (all forms).		Pneumonia (all forms). <sup>1</sup>		Violence.	
	Number of deaths. <sup>2</sup>	Annual rate. <sup>3</sup>	Number of deaths. <sup>2</sup>	Annual rate. <sup>3</sup>	Number of deaths. <sup>2</sup>	Annual rate. <sup>3</sup>	Number of deaths. <sup>2</sup>	Annual rate. <sup>3</sup>
Total.....	1922..... 733	3.1	23,628	99.7	32,667	137.8	21,048	88.8
	1921..... 853	3.6	24,449	104.5	24,951	106.7	21,618	92.4
Akron, Ohio.....	1922..... 4	1.9	75	36.1	205	98.6	86	41.4
	1921..... 13	6.2	98	47.0	156	74.8	202	96.9
Atlanta, Ga.....	1922..... 24	10.9	246	112.1	437	199.1	309	140.8
	1921..... 29	14.0	247	119.1	234	112.8	306	147.5
Baltimore, Md.....	1922..... 30	3.9	989	130.1	1,092	143.7	684	90.0
	1921..... 40	5.3	1,047	139.4	950	126.5	680	90.6
Birmingham, Ala.....	1922..... 23	12.1	263	138.1	273	143.3	276	144.9
	1921..... 34	18.3	270	145.1	243	130.6	295	158.5
Boston, Mass.....	1922..... 12	1.6	837	109.9	1,245	163.4	726	95.3
	1921..... 24	3.2	882	116.4	943	124.5	701	92.5
Bridgeport, Conn.....	1922..... 1	0.7	121	84.5	201	140.4	113	78.9
	1921..... 4	2.8	142	98.9	141	98.2	113	78.7
Chicago, Ill.....	1922..... 31	1.1	2,191	77.5	2,629	93.0	2,801	99.1
	1921..... 34	1.2	2,362	84.9	2,411	86.7	2,825	101.6
Cincinnati, Ohio.....	1922..... 12	3.0	585	144.9	509	126.1	382	94.6
	1921..... 15	3.7	616	152.7	410	101.6	432	107.1
Cleveland, Ohio.....	1922..... 17	2.0	791	92.8	912	107.0	712	83.5
	1921..... 28	3.4	813	97.8	748	90.0	730	87.8
Dallas, Tex.....	1922..... 9	5.2	152	88.6	194	113.1	192	112.0
	1921..... 21	12.7	144	87.1	122	73.8	194	117.4
Dayton, Ohio.....	1922..... 5	3.1	121	75.0	155	96.0	139	86.1
	1921..... 8	5.1	142	89.8	80	50.6	127	80.3
Denver, Colo.....	1922..... 15	5.6	586	219.6	508	190.4	261	97.8
	1921..... 12	4.6	577	219.3	414	157.3	241	91.6
Detroit, Mich.....	1922..... 49	4.9	937	94.6	1,359	137.1	732	73.9
	1921..... 57	5.7	893	89.9	901	90.7	815	82.0
Fall River, Mass.....	1922..... 4	3.3	131	108.8	221	183.5	109	90.5
	1921..... 3	2.5	117	97.0	175	145.0	81	67.1
Grand Rapids, Mich.....	1922..... 3	2.1	77	53.8	104	72.6	95	66.4
	1921..... 6	4.2	90	63.7	81	57.4	94	66.6
Indianapolis, Ind.....	1922..... 20	6.0	306	92.1	524	157.7	290	87.3
	1921..... 23	7.1	406	124.7	286	87.8	258	79.2
Los Angeles, Calif.....	1922..... 25	3.9	1,164	183.8	754	119.1	771	121.8
	1921..... 16	2.6	1,057	173.3	435	71.3	741	121.5
Louisville, Ky.....	1922..... 17	6.6	304	118.7	408	159.3	228	89.0
	1921..... 18	7.6	311	131.7	226	95.7	259	109.7
Lowell, Mass.....	1922..... 7	6.1	104	91.1	156	136.7	71	62.2
	1921..... 6	5.3	94	82.6	138	121.3	102	89.7
Milwaukee, Wis.....	1922..... 14	2.9	293	61.6	466	98.0	311	65.4
	1921..... 9	1.9	328	69.9	370	78.9	337	71.8
Minneapolis, Minn.....	1922..... 8	2.0	305	76.3	318	79.5	324	81.0
	1921..... 5	1.3	333	84.8	347	88.3	352	89.6
Nashville, Tenn.....	1922..... 20	16.7	177	147.5	194	161.7	114	95.0
	1921..... 26	21.3	194	159.0	147	120.5	166	136.0
New Bedford, Mass.....	1922..... 5	4.0	155	124.0	132	105.6	68	54.4
	1921..... 9	5.3	98	57.8	345	203.5	141	83.2
New Haven, Conn.....	1922..... 8	4.8	135	80.8	165	98.8	157	94.0
	1921..... 129	2.2	5,792	99.5	8,807	151.2	4,767	81.9
New York, N. Y.....	1922..... 127	2.2	5,994	104.2	6,654	115.7	4,656	80.9
	1921..... 12	2.8	421	97.8	557	129.4	325	75.5
Newark, N. J.....	1922..... 12	2.8	345	81.2	352	82.8	381	89.7
	1921..... 8	6.4	136	109.2	144	115.6	54	43.3
Norfolk, Va.....	1922..... 12	9.9	128	105.6	113	93.2	156	128.6
	1921..... 6	2.6	157	67.5	218	93.7	145	62.3
Oakland, Calif.....	1922..... 2	0.9	166	73.3	149	65.8	202	89.2
	1921..... 3	2.2	144	104.2	246	178.1	89	64.4
Paterson, N. J.....	1922..... 8	5.8	140	101.8	164	119.3	146	106.2
	1921..... 52	2.8	2,141	113.3	2,710	143.4	1,670	88.4
Philadelphia, Pa.....	1922..... 45	2.4	2,159	115.7	2,327	124.7	1,496	80.2
	1921..... 29	4.8	553	91.2	1,706	281.4	656	108.2
Pittsburgh, Pa.....	1922..... 27	4.5	617	102.4	1,532	254.3	681	113.0

<sup>1</sup> Pneumonia (all forms) for 1921 includes capillary bronchitis and excludes lobar pneumonia with influenza.

<sup>2</sup> Deaths for 1921 are those that occurred in the calendar year. Deaths for 1922 are those reported in the 52 weeks.

<sup>3</sup> Annual rate per 100,000 population. Allowance has been made in 1922 for the extra day which must be added to the 52 weeks to give a period of 365 days.

*Mortality summary for the 43 cities which reported each week during the year 1922, the deaths from typhoid fever, tuberculosis (all forms), pneumonia (all forms), and violence, and comparison with 1921—Continued.*

City.	Typhoid fever.		Tuberculosis (all forms).		Pneumonia (all forms).		Violence.	
	Number of deaths.	Annual rate.	Number of deaths.	Annual rate.	Number of deaths.	Annual rate.	Number of deaths.	Annual rate.
Portland, Oreg.....	1922.. 8	3.0	161	60.0	277	103.2	224	83.4
	1921.. 7	2.6	170	64.2	186	70.2	252	95.1
Providence, R. I.....	1922.. 8	3.3	191	79.5	360	149.8	217	90.3
	1921.. 8	3.3	235	98.1	282	117.7	205	85.5
St. Louis, Mo.....	1922.. 35	4.4	633	86.1	1,477	186.3	765	96.5
	1921.. 34	4.3	637	87.4	979	124.5	777	98.8
St. Paul, Minn.....	1922.. 6	2.5	194	81.1	246	102.9	188	78.6
	1921.. 18	7.6	235	98.8	158	66.4	222	93.4
Salt Lake City, Utah	1922.. 4	3.2	83	67.2	209	169.1	124	100.3
	1921.. 7	5.8	75	61.7	101	83.1	120	98.7
San Francisco, Calif.	1922.. 12	2.3	614	116.2	627	118.7	568	107.5
	1921.. 21	4.0	648	124.5	474	91.1	697	133.9
Seattle, Wash.....	1922.. 10	3.2	225	71.6	232	73.8	268	85.2
	1921.. 7	2.2	223	70.7	159	50.4	267	84.7
Spokane, Wash.....	1922.. 5	4.8	52	49.9	123	118.1	85	81.6
	1921.. 5	4.8	67	64.2	124	118.7	114	109.2
Syracuse, N. Y.....	1922.. 3	1.7	84	46.5	194	107.5	136	75.3
	1921.. 7	3.9	124	69.9	147	82.8	154	86.8
Toledo, Ohio.....	1922.. 16	6.2	268	103.1	234	90.0	233	89.6
	1921.. 22	8.7	318	125.3	167	65.8	269	106.0
Trenton, N. J.....	1922.. 15	12.0	176	141.1	240	192.4	135	108.2
	1921.. 11	9.0	111	90.4	134	109.2	132	107.5
Washington, D. C.....	1922.. 21	4.8	565	129.5	634	145.3	479	109.8
	1921.. 29	6.6	554	126.6	494	112.9	415	94.8

\* Fall of theater roof, Jan. 28, 1922, caused 97 deaths.

### MORTALITY SUMMARY, INDUSTRIAL INSURANCE COMPANIES, 1920, 1921, 1922.

*Summary of the mortality experience of industrial insurance companies for 1920, 1921, and 1922.*

[From the Weekly Health Index, Jan. 13, 1923, issued by the Bureau of the Census.]

Year.	Average number of policies in force.	Average number of death claims for year.	Number of death claims per 1,000 policies in force (annual rate).
1922.....	49,876,490	1,461,129	9.2
1921.....	46,941,971	1,420,581	9.0
1920.....	43,912,874	2,446,059	10.2

<sup>1</sup> Allowance has been made for the extra day which must be added to the 52 weeks to give a period of 365 days.

<sup>2</sup> Allowance has been made for the 5 extra days which must be deducted from the 53 weeks to make a period of 366 days.

## DEATH RATES IN A GROUP OF INSURED PERSONS.

**COMPARISON OF DEATH RATES FOR PRINCIPAL CAUSES, OCTOBER AND NOVEMBER, 1922, AND NOVEMBER AND YEAR, 1921.**

The table below is taken from the Statistical Bulletin of the Metropolitan Life Insurance Co. for December, 1922, and presents the mortality experience of the company for October and November, 1922, and for November and year, 1921. The rates are based on a strength of approximately 14,000,000 insured persons.

Comparison of the rates for important causes of death, for November, 1922, with the same month of 1921, shows reductions in 1922 for diphtheria, scarlet fever, typhoid fever, and tuberculosis. The rates for organic heart disease, pneumonia, and Bright's disease are substantially the same for both years. Mortality from measles continued higher in 1922 than in 1921, but the 1921 record for this disease was the lowest in the experience of the company. Influenza mortality was also slightly higher for November, 1922.

*Death rates (annual basis) for principal causes per 100,000 lives exposed, October and November, 1922, and November and year, 1921.*

Cause of death.	Death rate per 100,000 lives exposed.			
	Novem- ber, 1922.	October, 1922.	Novem- ber, 1921.	Year, 1921.
Total, all causes.....	819.2	786.4	858.2	870.6
Typhoid fever.....	6.0	9.4	8.9	6.7
Measles.....	2.2	1.3	.7	3.2
Scarlet fever.....	4.1	3.9	5.7	7.0
Whooping cough.....	1.8	2.0	1.7	3.9
Diphtheria.....	25.2	19.4	31.5	23.8
Influenza.....	7.0	4.9	5.3	8.7
Tuberculosis (all forms).....	90.6	101.4	97.7	117.4
Tuberculosis of respiratory system.....	82.5	91.5	88.7	105.6
Cancer.....	69.3	70.8	71.9	71.7
Cerebral hemorrhage.....	33.6	55.7	64.2	62.1
Organic diseases of heart.....	121.6	104.2	121.4	117.4
Pneumonia (all forms).....	63.1	40.4	62.7	67.8
Other respiratory diseases.....	14.8	11.5	15.5	14.1
Diarrhea and enteritis.....	8.8	13.5	13.6	14.2
Bright's disease (chronic nephritis).....	69.4	67.4	70.9	68.0
Puerperal state.....	15.3	16.2	16.7	19.8
Suicides.....	4.8	6.3	6.0	7.6
Homicides.....	5.5	7.4	6.5	6.7
Other external causes (excluding suicides and homicides).....	60.2	54.0	52.8	57.6
Traumatism by automobile.....	15.2	15.3	13.9	12.2
All other causes.....	195.8	196.7	204.5	192.9

## DEATHS DURING WEEK ENDED JANUARY 13, 1923.

*Summary of information received by telegraph from industrial insurance companies for week ended January 13, 1923, and corresponding week of 1922.*

[From the Weekly Health Index, Jan. 16, 1923, issued by the Bureau of the Census, Department of Commerce.]

	Week ended Jan. 13, 1923.	Corresponding week, 1922.
Policies in force.....	51, 538, 149	48, 548, 844
Number of death claims.....	11, 550	10, 240
Death claims per 1,000 policies in force, annual rate.....	11. 7	11. 0

*Deaths from all causes in certain large cities of the United States during the week ended January 13, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922.*

[From the Weekly Health Index, Jan. 16, 1923, issued by the Bureau of the Census, Department of Commerce.]

City.	Estimated population July 1, 1923.	Week ended Jan. 13, 1923.		Annual death rate per 1,000, corresponding week 1922.	Deaths under 1 year.		Infant mortality rate, week ended Jan. 13, 1923. <sup>2</sup>
		Total deaths.	Death rate. <sup>1</sup>		Week ended Jan. 13, 1923.	Corresponding week 1922.	
Total.....	28, 893, 091	8, 348	15. 1	13. 6	1, 117	938	.....
Akron, Ohio.....	208, 435	32	8. 0	6. 8	4	0	47
Albany, N. Y.....	117, 375	43	19. 1	13. 9	7	3	155
Atlanta, Ga.....	222, 963	102	23. 9	14. 2	21	11	.....
Baltimore, Md.....	775, 580	275	18. 5	15. 0	31	10	91
Birmingham, Ala.....	195, 901	65	17. 3	16. 7	14	9	.....
Boston, Mass.....	770, 400	265	17. 9	15. 2	33	20	95
Bridgeport, Conn.....	143, 555	35	12. 7	12. 0	2	5	28
Buffalo, N. Y.....	536, 718	157	15. 3	13. 6	16	18	67
Cambridge, Mass.....	111, 444	30	14. 0	14. 6	2	4	36
Camden, N. J.....	124, 157	37	15. 5	12. 0	9	3	149
Chicago, Ill.....	2, 833, 288	812	14. 9	12. 0	135	102	.....
Cincinnati, Ohio.....	408, 312	157	20. 1	17. 4	14	10	92
Cleveland, Ohio.....	877, 992	210	12. 5	10. 6	34	26	93
Columbus, Ohio.....	261, 082	105	21. 0	18. 5	11	7	114
Dallas, Tex.....	177, 274	45	13. 2	16. 7	7	9	.....
Dayton, Ohio.....	165, 530	42	13. 2	12. 6	4	6	66
Denver, Colo.....	272, 031	84	16. 1	19. 9	8	9	.....
Detroit, Mich.....	993, 073	279	14. 6	10. 7	57	36	114
Duluth, Minn.....	106, 289	16	7. 8	.....	3	.....	68
Erie, Pa.....	112, 571	31	14. 4	11. 9	4	7	81
Fall River, Mass.....	120, 912	54	23. 3	14. 2	13	12	185
Flint, Mich.....	117, 968	30	13. 3	.....	5	.....	99
Fort Worth, Tex.....	125, 021	29	12. 1	9. 1	6	2	.....
Grand Rapids, Mich.....	145, 947	42	15. 0	9. 4	6	2	95
Houston, Tex.....	154, 970	32	10. 8	13. 5	9	7	.....
Indianapolis, Ind.....	340, 232	110	16. 8	11. 7	16	6	123
Jacksonville, Fla.....	100, 046	33	17. 2	.....	6	.....	67
Jersey City, N. J.....	309, 034	89	15. 0	12. 1	10	9	.....
Kansas City, Kans.....	115, 781	27	12. 2	16. 0	6	2	137
Kansas City, Mo.....	351, 819	100	14. 8	16. 5	11	20	.....
Los Angeles, Calif.....	666, 853	245	19. 2	13. 8	30	9	112
Louisville, Ky.....	257, 671	89	18. 0	17. 9	14	5	151
Lowell, Mass.....	115, 089	41	18. 6	17. 3	8	9	139
Lynn, Mass.....	102, 683	28	14. 2	.....	1	.....	26
Memphis, Tenn.....	170, 067	70	21. 5	21. 1	4	8	.....
Milwaukee, Wis.....	484, 595	121	13. 0	9. 8	16	11	79
Minneapolis, Minn.....	409, 123	106	13. 5	9. 8	10	10	54
Nashville, Tenn.....	121, 128	61	26. 3	16. 9	7	6	.....
New Bedford, Mass.....	130, 072	35	14. 0	8. 6	5	4	74
New Haven, Conn.....	172, 967	50	15. 1	12. 3	6	7	78
New Orleans, La.....	404, 575	124	16. 0	17. 5	16	13	.....

<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> Enumerated population Jan. 1, 1923.  
<sup>4</sup> Estimated population July 1, 1922.

*Deaths from all causes in certain large cities of the United States during the week ended January 13, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922—Continued.*

City.	Estimated population July 1, 1923.	Week ended Jan. 13, 1923.		Annual death rate per 1,000, corresponding week 1922.	Deaths under 1 year.		Infant mortality rate, week ended Jan. 13, 1923.
		Total deaths.	Death rate.		Week ended Jan. 13, 1923.	Corresponding week 1922.	
New York, N. Y.....	5,927,625	1,430	12.6	13.2	184	196	74
Bronx Borough.....	840,544	166	10.3	10.5	22	10	77
Brooklyn Borough.....	2,156,687	466	11.3	12.6	55	37	58
Manhattan Borough.....	2,267,001	651	15.0	15.1	96	81	93
Queens Borough.....	535,844	114	11.1	11.0	5	18	27
Richmond Borough.....	127,549	33	13.5	15.9	6	0	109
Newark, N. J.....	438,699	123	14.6	14.9	21	22	99
Norfolk, Va.....	<sup>4</sup> 124,915	35	14.6	10.0	6	7	106
Oakland, Calif.....	240,086	55	11.9	9.8	11	2	141
Omaha, Nebr.....	204,382	66	16.8	12.5	8	8	87
Paterson, N. J.....	139,579	46	17.2	14.7	6	6	96
Philadelphia, Pa.....	1,922,788	729	19.8	15.6	91	72	118
Pittsburgh, Pa.....	<sup>4</sup> 607,902	198	17.0	16.0	33	33	115
Portland, Oreg.....	273,621	52	9.9	13.8	10	7	101
Providence, R. I.....	242,378	81	17.4	16.0	14	12	114
Richmond, Va.....	181,044	67	19.3	16.4	5	5	61
Rochester, N. Y.....	317,967	64	10.5	10.0	12	6	95
St. Louis, Mo.....	803,853	202	13.1	13.5	6	23	-----
St. Paul, Minn.....	241,891	74	16.0	14.3	8	7	74
Salt Lake City, Utah.....	126,241	32	13.2	16.8	6	6	98
San Antonio, Tex.....	184,727	44	12.4	-----	10	-----	-----
San Francisco, Calif.....	539,038	153	14.8	15.6	10	8	60
Seattle, Wash.....	<sup>3</sup> 315,312	50	9.8	10.1	7	11	62
Spokane, Wash.....	104,573	24	12.0	15.5	1	3	22
Springfield, Mass.....	144,227	33	11.9	10.8	1	5	14
Tacoma, Wash.....	101,731	26	13.3	-----	1	-----	25
Toledo, Ohio.....	268,338	72	14.0	13.2	11	6	111
Trenton, N. J.....	127,390	44	18.0	22.9	7	8	119
Washington, D. C.....	<sup>3</sup> 437,571	163	19.4	15.8	12	21	69
Wilmington, Del.....	117,728	41	18.2	12.2	4	3	81
Worcester, Mass.....	191,927	58	15.8	13.0	9	6	101
Yonkers, N. Y.....	107,520	19	9.2	11.9	0	3	0
Youngstown, Ohio.....	<sup>3</sup> 132,358	20	7.9	8.7	2	6	27

<sup>3</sup> Enumerated population Jan. 1, 1920.

<sup>4</sup> Estimated population July 1, 1922.





MARYLAND. <sup>1</sup>		MISSOURI.	
	Cases.		Cases.
Chicken pox.....	153	Anthrax.....	1
Diphtheria.....	74	Chicken pox.....	25
German measles.....	4	Diphtheria.....	40
Influenza.....	547	Epidemic sore throat.....	7
Lethargic encephalitis.....	1	Influenza.....	808
Malaria.....	1	Measles.....	5
Measles.....	193	Mumps.....	18
Mumps.....	51	Ophthalmia neonatorum.....	1
Pneumonia (all forms).....	193	Pneumonia.....	17
Scarlet fever.....	84	Scarlet fever.....	72
Septic sore throat.....	1	Smallpox.....	5
Tetanus.....	1	Tuberculosis.....	10
Tuberculosis.....	47	Typhoid fever.....	4
Typhoid fever.....	3	Whooping cough.....	10
Whooping cough.....	124		
		MONTANA.	
		Diphtheria.....	9
		Scarlet fever.....	11
		Smallpox.....	8
		Typhoid fever.....	2
		NEBRASKA.	
		Cerebrospinal meningitis:	
		Washington County.....	2
		Chicken pox.....	34
		Diphtheria:	
		Omaha.....	12
		Scattering.....	18
		Influenza.....	23
		Measles.....	1
		Mumps.....	8
		Pneumonia.....	3
		Scarlet fever.....	42
		Smallpox.....	4
		Tuberculosis.....	1
		Typhoid fever.....	4
		Whooping cough.....	3
		NEW JERSEY.	
		Chicken pox.....	220
		Diphtheria.....	186
		Influenza.....	47
		Measles.....	1,142
		Pneumonia.....	211
		Scarlet fever.....	187
		Typhoid fever.....	5
		Whooping cough.....	132
		NEW MEXICO.	
		Chicken pox.....	9
		Diphtheria.....	35
		Influenza.....	11
		Measles.....	3
		Mumps.....	3
		Pneumonia.....	14
		Scarlet fever.....	15
		Smallpox.....	17
		Tuberculosis.....	24
		Typhoid fever.....	11
		Whooping cough.....	1
		NEW YORK.	
		(Exclusive of New York City.)	
		Cerebrospinal meningitis.....	2
		Diphtheria.....	157
		Influenza.....	212
MASSACHUSETTS.			
Anthrax.....	1		
Cerebrospinal meningitis.....	3		
Chicken pox.....	224		
Conjunctivitis (suppurative).....	8		
Diphtheria.....	177		
German measles.....	10		
Influenza.....	138		
Lethargic encephalitis.....	3		
Measles.....	802		
Mumps.....	207		
Ophthalmia neonatorum.....	16		
Pneumonia (lobar).....	190		
Poliomyelitis.....	2		
Scarlet fever.....	239		
Septic sore throat.....	6		
Tuberculosis.....	135		
Typhoid fever.....	17		
Whooping cough.....	363		
MICHIGAN.			
Diphtheria.....	218		
Measles.....	109		
Pneumonia.....	261		
Scarlet fever.....	376		
Smallpox.....	40		
Tuberculosis.....	237		
Typhoid fever.....	12		
Whooping cough.....	198		
MINNESOTA.			
Chicken pox.....	46		
Diphtheria.....	104		
Influenza.....	1		
Lethargic encephalitis.....	4		
Measles.....	177		
Pneumonia.....	9		
Scarlet fever.....	250		
Smallpox.....	100		
Tuberculosis.....	75		
Typhoid fever.....	5		
Whooping cough.....	6		
MISSISSIPPI.			
Cerebrospinal meningitis.....	1		
Diphtheria.....	18		
Influenza.....	7,443		
Scarlet fever.....	3		
Smallpox.....	3		
Typhoid fever.....	7		

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

NEW YORK—continued.		WASHINGTON—continued.	
	Cases.		Cases.
Measles.....	482	Lethargic encephalitis—Continued.	
Pneumonia.....	389	Spokane County.....	1
Poliomyelitis.....	3	Walla Walla County.....	2
Scarlet fever.....	312	Vancouver.....	1
Smallpox.....	25	Measles.....	2
Typhoid fever.....	15	Mumps.....	20
Whooping cough.....	345	Scarlet fever:	
NORTH CAROLINA.		Seattle.....	14
Chicken pox.....	160	Tacoma.....	10
Diphtheria.....	70	Scattering.....	39
German measles.....	2	Smallpox:	
Measles.....	334	Seattle.....	8
Scarlet fever.....	51	Spokane.....	9
Septic sore throat.....	4	Scattering.....	30
Smallpox.....	93	Tuberculosis.....	13
Typhoid fever.....	8	Typhoid fever.....	5
Whooping cough.....	235	Whooping cough.....	42
OREGON.		WEST VIRGINIA.	
Chicken pox.....	10	Diphtheria.....	29
Diphtheria:		Influenza:	
Portland.....	13	Beckley.....	20
Scattering.....	4	Charleston.....	70
Influenza.....	12	Fairmont.....	40
Lethargic encephalitis.....	6	Mannington.....	50
Measles.....	6	Princeton.....	75
Mumps.....	2	Williamson.....	10
Pneumonia.....	15	Scattering.....	20
Scarlet fever.....	22	Scarlet fever.....	21
Smallpox:		Typhoid fever.....	2
Portland.....	13	WISCONSIN.	
Scattering.....	14	Milwaukee:	
Tuberculosis.....	24	Cerebrospinal meningitis.....	2
Typhoid fever.....	2	Chicken pox.....	40
Whooping cough.....	3	Diphtheria.....	24
SOUTH DAKOTA.		Influenza.....	2
Chicken pox.....	20	Measles.....	596
Diphtheria.....	18	Pneumonia.....	25
Measles.....	3	Scarlet fever.....	148
Pneumonia.....	17	Smallpox.....	1
Scarlet fever.....	41	Tuberculosis.....	11
Smallpox.....	11	Whooping cough.....	27
Tuberculosis.....	2	Scattering:	
Typhoid fever.....	1	Cerebrospinal meningitis.....	1
VERMONT.		Chicken pox.....	230
Chicken pox.....	60	Diphtheria.....	68
Diphtheria.....	9	German measles.....	4
Measles.....	19	Influenza.....	67
Mumps.....	7	Measles.....	492
Pneumonia.....	4	Pneumonia.....	25
Scarlet fever.....	11	Scarlet fever.....	162
Smallpox.....	3	Smallpox.....	52
Whooping cough.....	43	Tuberculosis.....	47
WASHINGTON.		Typhoid fever.....	4
Chicken pox.....	54	Whooping cough.....	124
Diphtheria:		WYOMING.	
Spokane.....	8	Chicken pox.....	5
Scattering.....	8	Diphtheria.....	1
Lethargic encephalitis:		Influenza.....	1
Seattle.....	4	Lethargic encephalitis—Natrona County.....	1
Skagit County.....	3	Mumps.....	2
		Scarlet fever.....	8
		Smallpox.....	1

<sup>1</sup> Deaths.



## SUMMARY OF CASES REPORTED MONTHLY BY STATES—(Continued).

## Cases of Certain Communicable Diseases Reported for the Month of November, 1922, by State Health Officers.

State.	Number of cases reported.								
	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whoop- ing cough.
Alabama	40	200	3	1	43	5	63	74	10
Arizona <sup>1</sup>									
Arkansas	114	125	5	8	52	4	101	70	23
California	452	1,189	79	103	891	66	628	94	257
Colorado	85	133	10	26	166	147	124	53	8
Connecticut	238	391	645	75	376	3	159	18	246
Delaware	31	10	25		67	0	16	9	10
District of Columbia	42	114	8		50	0	131	9	54
Florida		122	3	1	6	3	107	39	4
Georgia <sup>2</sup>									
Idaho	52	32			20	22		11	1
Illinois	1,362	2,297	606	315	1,419	179	1,634	173	621
Indiana		294	206		481	49	89	49	
Iowa		539	5		448	13		(3)	
Kansas	290	636	47	27	630	21	206	48	63
Kentucky <sup>2</sup>									
Louisiana	5	182	2	1	41	21	178	70	28
Maine	89	120	52		134	1	46	18	144
Maryland	222	466	404	129	307		171	125	
Massachusetts	661	1,263	1,164	449	809	1	538	75	1,050
Michigan	876	1,315	109	79	1,173	97	419	117	457
Minnesota	431	858	26		992	171	240	33	79
Mississippi	297	330	510	78	58	30	184	101	587
Missouri <sup>2</sup>									
Montana	152	54	7	1	93	18	18	12	6
Nebraska	130	219	11	9	322	5	23	13	9
Nevada <sup>4</sup>									
New Hampshire <sup>4</sup>									
New Jersey	565	1,117	1,280		605	4	382	131	551
New Mexico	125	123	3	2	32		109	43	1
New York	1,510	1,935	762	900	1,735	5	1,771	225	1,383
North Carolina	377	1,254	201		533	108		56	434
North Dakota	22	38	16	1	144	39	70	26	14
Ohio	1,424	2,213	1,060	57	1,878	137	468	163	328
Oklahoma	11	74		6	48	7	14	17	12
Oregon	84	67	6		55	43	44	25	6
Pennsylvania <sup>1</sup>									
Rhode Island	14	158	522		43		23	11	42
South Carolina	33	400			47	1	13	17	
South Dakota	37	92	15		194	39	70	16	6
Tennessee <sup>4</sup>									
Texas <sup>2</sup>									
Utah <sup>4</sup>									
Vermont	195	44	14		113	0	12	5	221
Virginia	462	1,411	163		631	13	212	77	
Washington	509	91	20	86	177	70	65	52	77
West Virginia	124	535	66		315	28	54	84	35
Wisconsin	633	491	2,692		619	207	209	43	461
Wyoming <sup>1</sup>									

<sup>1</sup> Reports for November not received.<sup>2</sup> Reports received weekly.<sup>3</sup> Not notifiable.<sup>4</sup> Reports received annually.

**SUMMARY OF CASES REPORTED MONTHLY BY STATES—Continued.**

**Reported Cases per 1,000 Population (Annual Basis) for the Month of November, 1922.**

State.	Case rates per 1,000 population.								
	Chick- en pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whoop- ing cough.
Alabama.....	0.20	1.01	0.02	0.01	0.22	0.03	0.32	0.37	0.05
Arizona <sup>1</sup> .....									
Arkansas.....	.77	.85	.03	.05	.35	.03	.68	.47	.20
California.....	1.59	3.91	.26	.34	2.93	.22	2.07	.31	.85
Colorado.....	1.06	1.66	.12	.32	2.07	1.83	1.53	.66	.10
Connecticut.....	2.00	3.28	5.42	.63	3.16	.03	1.33	.15	2.07
Delaware.....	1.65	1.01	1.33	.....	3.57	.....	.85	.48	.53
District of Columbia.....	1.10	2.98	.21	.....	1.31	.....	2.80	.24	1.47
Florida.....	.....	1.45	.04	.01	.07	.04	1.56	.46	.05
Georgia <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Idaho.....	1.38	.85	.....	.....	.53	.58	.....	.29	.03
Illinois.....	2.47	4.17	1.10	.57	2.58	.32	2.97	.31	1.13
Indiana.....	.....	3.80	.84	.....	1.96	.20	.36	.20	.....
Iowa.....	.....	2.68	.02	.....	2.22	.06	.....	( <sup>3</sup> )	.....
Kansas.....	1.97	4.06	.32	.18	4.28	.14	1.40	.33	.44
Kentucky <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	.03	1.21	.01	.01	.27	.14	1.18	.46	.10
Maine.....	1.40	1.88	.82	.....	2.10	.02	.72	.28	2.26
Maryland.....	1.81	3.81	3.30	1.05	2.51	.....	1.40	1.02	.....
Massachusetts.....	2.02	3.86	3.56	1.37	2.47	.00	1.65	.23	3.24
Michigan.....	2.74	4.11	.34	.25	3.67	.30	1.31	.37	1.43
Minnesota.....	2.13	4.23	.13	.....	4.84	.86	1.18	.16	.39
Mississippi.....	2.02	2.24	3.47	.53	.39	.20	1.25	.60	3.99
Missouri <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montana.....	3.12	1.11	.14	.02	1.91	.37	.37	.25	.12
Nebraska.....	1.20	2.01	.10	.08	2.96	.05	.21	.12	.08
Nevada <sup>4</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Hampshire <sup>4</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	2.07	4.10	4.70	.....	2.22	.00	1.40	.48	2.02
New Mexico.....	4.12	4.06	.10	.07	1.06	.....	3.60	1.42	.03
New York.....	2.06	2.20	.87	1.02	1.97	.01	2.01	.26	1.57
North Carolina.....	1.73	5.76	.92	.....	2.45	.50	.....	.26	1.99
North Dakota.....	.40	.70	.29	.02	2.64	.71	1.28	.48	.26
Ohio.....	2.88	4.48	2.14	.12	3.80	.28	.95	.33	.66
Oklahoma.....	.06	.42	.....	.....	.27	.04	.08	.10	.07
Oregon.....	1.26	1.00	.09	.09	.82	.64	.66	.37	.09
Pennsylvania <sup>1</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rhode Island.....	.27	3.10	10.24	.....	.84	.....	.45	.22	.82
South Carolina.....	.23	2.82	.....	.....	.33	.01	.09	.12	.....
South Dakota.....	.69	1.72	.28	.....	3.63	.73	1.31	.30	.11
Tennessee <sup>4</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Texas <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Utah <sup>4</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vermont.....	6.73	1.52	.48	.....	3.90	.00	.41	.17	7.63
Virginia.....	2.37	7.23	.84	.....	3.24	.07	1.09	.39	.....
Washington.....	4.39	.78	.17	.74	1.53	.60	.56	.45	.66
West Virginia.....	.99	4.27	.53	.....	2.51	.22	.43	.67	.28
Wisconsin.....	2.84	2.21	12.09	.....	2.78	.93	.94	.19	2.07
Wyoming <sup>1</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....

<sup>1</sup> Reports for November not received.

<sup>2</sup> Reports received weekly.

<sup>3</sup> Not notifiable.

<sup>4</sup> Reports received annually.

**CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923.**

**ANTHRAX.**

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Missouri:			New York:		
Kansas City.....	1	.....	New York.....	1	.....

## CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

## CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks 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 Jan. 6, 1923.		City.	Median for previous years.	Week ended Jan. 6, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Minnesota:			
Los Angeles.....	0	2	1	Minneapolis.....	0		1
San Francisco.....	0	1	1	New Jersey:			
Connecticut:				Jersey City.....	0	1	
Hartford.....	0	1		Ohio:			
Illinois:				Cleveland.....	0		1
Chicago.....	1	1		Pennsylvania:			
Indiana:				Pittsburgh.....	0	1	
Hammond.....	0		1	Rhode Island:			
Louisiana:				Providence.....	0		1
New Orleans.....	0	1	1	Tennessee:			
Massachusetts:				Memphis.....	0	1	
Lawrence.....	0	1		Texas:			
Springfield.....	0	1		San Antonio.....	0		2
Michigan:							
Detroit.....	0	1					

## DIPHTHERIA.

See p. 162; also Current State summaries, p. 148, and Monthly summaries by States, p. 152.

## INFLUENZA.

City.	Cases.		Deaths, week ended Jan. 6, 1923.	City.	Cases.		Deaths, week ended Jan. 6, 1923.
	Week ended Jan. 7, 1922.	Week ended Jan. 6, 1923.			Week ended Jan. 7, 1922.	Week ended Jan. 6, 1923.	
Alabama:				Illinois—Continued.			
Anniston.....	1			Danville.....	1		
Birmingham.....		3	3	Decatur.....		1	
Mobile.....		8	1	Freeport.....	1		
Arkansas:				Pekin.....	3		
Little Rock.....		4		Indiana:			
California:				Indianapolis.....			2
Berkeley.....	4			Kokomo.....			1
Long Beach.....		5		Kansas:			
Los Angeles.....	5	4	1	Topeka.....	1		
Oakland.....		1	1	Kentucky:			
San Diego.....		1	1	Covington.....		11	3
San Francisco.....	10	3		Louisville.....		23	
Santa Ana.....	1	2		Louisiana:			
Santa Barbara.....			1	New Orleans.....		1	2
Connecticut:				Maryland:			
Bridgeport.....		2	6	Baltimore.....	13	59	5
Greenwich.....	2			Massachusetts:			
Hartford.....	1			Boston.....	3	17	1
District of Columbia:				Cambridge.....		3	
Washington.....	1	3	1	Chelsea.....		1	2
Florida:				Everett.....		1	
Tampa.....	4			Fall River.....		1	1
Georgia:				Lynn.....		2	
Albany.....	1	40		New Bedford.....		4	
Atlanta.....	6	221	4	Saugus.....	2	6	
Augusta.....		16		Somerville.....		1	
Brunswick.....		43	1	Waltham.....		8	1
Macon.....		50		Winthrop.....		1	
Rome.....		17		Michigan:			
Savannah.....		42	6	Detroit.....		4	2
Illinois:				Grand Rapids.....		1	
Centralia.....	2			Jackson.....			1
Chicago.....	15	16	2	Saginaw.....	3		

CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

INFLUENZA—Continued.

City.	Cases.		Deaths, week ended Jan. 6, 1923.	City.	Cases.		Deaths, week ended Jan. 6, 1923.
	Week ended Jan. 7, 1922.	Week ended Jan. 6, 1923.			Week ended Jan. 7, 1922.	Week ended Jan. 6, 1923.	
Minnesota:				Ohio:			
Minneapolis.....			1	Akron.....	4		
Winona.....			1	Chillicothe.....		3	
Missouri:				Cincinnati.....	1	18	15
Joplin.....	1			Cleveland.....	1	8	5
Kansas City.....		3		East Cleveland.....			1
Springfield.....			1	Toledo.....			1
New Jersey:				Youngstown.....			1
Bayonne.....	1			Oregon:			
Harrison.....		2		Portland.....			1
Kearny.....		2		Pennsylvania:			
Newark.....	11	17		Philadelphia.....	14	18	22
Orange.....		1		Rhode Island:			
Passaic.....		2		Providence.....		1	
Paterson.....		5		South Carolina:			
Trenton.....		1		Charleston.....		111	
New York:				Greenville.....		53	
Albany.....	4	8		South Dakota:			
Amsterdam.....		10		Sioux Falls.....		1	
Cohoes.....		1		Tennessee:			
Cortland.....	1	1		Chattanooga.....		1	
Jamestown.....		1		Texas:			
New York.....	56	67	12	Dallas.....		1	
Olean.....		1		Utah:			
Peekskill.....		1	1	Salt Lake City.....			1
Rochester.....			1	Virginia:			
Saratoga Springs.....	1	2		Petersburg.....		1	
Watertown.....		8		Roanoke.....	10	1	3
Yonkers.....	1			West Virginia:			
North Carolina:				Charleston.....	2	5	
Salisbury.....			1	Fairmont.....		15	
Wilmington.....			1	Huntington.....		15	4
Winston-Salem.....			2	Wisconsin:			
				Milwaukee.....		5	

LEPROSY.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Texas:					
Galveston.....	1				

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Ohio:			Oregon:		
Ashtabula.....	1	1	Portland.....	3	

MALARIA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Louisiana:		
Mobile.....	2		New Orleans.....	6	1
Arkansas:			New York:		
North Little Rock.....	1		New York.....	1	
Georgia:			Port Chester.....	3	
Brunswick.....	3		Tennessee:		
			Memphis.....	1	

## CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

## MEASLES.

See p. 162; also Current State summaries, p. 148, and Monthly summaries by States, p. 152.

## PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Tennessee:		
Birmingham.....	3	1	Nashville.....		2
Georgia:			Texas:		
Brunswick.....	1	1	Dallas.....	1	1
North Carolina:					
Raleigh.....		1			

## PNEUMONIA (ALL FORMS).

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Indiana:		
Birmingham.....		9	Anderson.....		1
Mobile.....		3	East Chicago.....		4
Montgomery.....		2	Fort Wayne.....		1
Arkansas:			Hammond.....		3
Little Rock.....	8		Indianapolis.....		11
California:			Kokomo.....		2
Alameda.....		1	La Fayette.....		1
Los Angeles.....	38	14	Laporte.....		1
Oakland.....	9	3	Logansport.....		2
Pasadena.....	5	2	Muncie.....		1
Riverside.....		3	South Bend.....		4
Sacramento.....		4	Iowa:		
San Diego.....	6	4	Burlington.....	10	4
San Francisco.....	11	7	Council Bluffs.....		1
San Jose.....		2	Muscatine.....		1
Santa Ana.....	2	1	Sioux City.....		1
Santa Cruz.....		1	Kansas:		
Colorado:			Kansas City.....	14	
Denver.....		17	Leavenworth.....	2	1
Pueblo.....		2	Topeka.....	6	1
Connecticut:			Wichita.....		8
Bridgeport.....	5	3	Kentucky:		
Bristol.....	5		Covington.....		6
Derby.....		1	Henderson.....	1	
Hartford.....	3	1	Louisville.....	21	
Manchester.....	3		Louisiana:		
New Haven.....	11	9	New Orleans.....		17
District of Columbia:			Maine:		
Washington.....		28	Bangor.....	3	1
Florida:			Bath.....		1
Tampa.....		1	Biddeford.....		1
Georgia:			Lewiston.....		2
Atlanta.....		36	Portland.....	4	2
Augusta.....		3	Sanford.....	4	1
Brunswick.....		1	Maryland:		
Rome.....	4		Baltimore.....	132	47
Savannah.....		6	Cumberland.....	1	
Valdosta.....	1		Massachusetts:		
Illinois:			Amesbury.....		1
Alton.....		1	Arlington.....	2	
Aurora.....	3		Attleboro.....		3
Blue Island.....	1		Beverly.....	2	
Chicago.....	327	115	Boston.....		57
Decatur.....	5	1	Braintree.....	1	
East St. Louis.....	3	3	Cambridge.....	9	6
Elgin.....		3	Chelsea.....	5	2
Evanston.....	1		Clinton.....		1
Freeport.....	4	3	Fall River.....		1
Galesburg.....	4	1	Gardner.....	1	
Jacksonville.....		5	Greenfield.....		2
Kewanee.....	2	1	Haverhill.....		1
La Salle.....		1	Holyoke.....	3	2
Mattoon.....	3		Lawrence.....	7	4
Oak Park.....	4	1	Leominster.....		2
Pekin.....	10		Lowell.....		7
Peoria.....		8	Lynn.....	5	2
Springfield.....	4	3	Malden.....	2	1

CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Massachusetts—Continued.			New Jersey—Continued.		
Methuen.....	1	1	Summit.....		2
New Bedford.....	4	9	Trenton.....	36	6
Newburyport.....	1	1	West Hoboken.....		1
Newton.....	1	4	West Orange.....	3	1
North Adams.....	1	1	New York:		
Northbridge.....	2	1	Albany.....	17	
Peabody.....	2	3	Amsterdam.....	3	
Pittsfield.....	2	1	Buffalo.....	44	12
Quincy.....	3	3	Cohoes.....	4	1
Salem.....	5	3	Genova.....	2	1
Somerville.....	5	2	Glens Falls.....	2	
Springfield.....	3	3	Hornell.....	2	1
Taunton.....	3	1	Ithaca.....	2	1
Waltham.....	3	1	Jamestown.....	4	
Watertown.....	2	1	Lackawanna.....	1	2
Westfield.....	1	1	Lockport.....	3	2
Winthrop.....	1	1	Mount Vernon.....	3	
Woburn.....	2	2	New York.....	308	196
Worcester.....	3	2	Niagara Falls.....	11	1
Michigan:			North Tonawanda.....	3	
Ann Arbor.....	3	2	Olean.....	5	1
Battle Creek.....	1		Port Chester.....		1
Benton Harbor.....	1		Poughkeepsie.....	6	1
Detroit.....	154	74	Rochester.....	23	10
Flint.....	4	2	Rome.....	2	2
Grand Rapids.....	6	1	Saratoga Springs.....	3	
Hamtramck.....	2	1	Schenectady.....	4	3
Highland Park.....	4	3	Syracuse.....	26	6
Jackson.....	1	1	Troy.....		6
Kalamazoo.....	2	4	Watertown.....	7	
Marquette.....	2	2	White Plains.....	3	2
Muskegon.....	2	1	North Carolina:		
Pontiac.....	5	1	Durham.....		4
Port Huron.....	2	1	Greensboro.....		4
Minnesota:			Raleigh.....		2
Duluth.....		2	Rocky Mount.....		1
Hibbing.....		1	Wilmington.....		1
Minneapolis.....		13	Winston-Salem.....		5
Rochester.....		1	Ohio:		
St. Paul.....		11	Akron.....	5	
Winona.....		2	Ashtabula.....		1
Mississippi:			Barberton.....	1	
Biloxi.....	2	1	Bellaire.....	1	
Missouri:			Canton.....		4
Kansas City.....	24		Chillicothe.....	3	1
St. Joseph.....		9	Cincinnati.....		29
Springfield.....		8	Cleveland Heights.....	1	
Montana:			Cleveland.....	60	31
Missoula.....	3	2	Dayton.....	1	
Nebraska:			East Cleveland.....	2	
Lincoln.....	3	1	Hamilton.....		1
Omaha.....		16	Lancaster.....		2
Nevada:			Lima.....	3	3
Reno.....		1	Middletown.....	3	1
New Hampshire:			New Philadelphia.....	1	
Concord.....		2	Newark.....		1
Keene.....		1	Norwood.....		1
New Jersey:			Piqua.....	1	
Atlantic City.....	2		Salem.....		3
Belleville.....	2		Sandusky.....		1
Bloomfield.....	1		Springfield.....		1
East Orange.....	5		Toledo.....		3
Elizabeth.....		10	Youngstown.....		5
Englewood.....	1		Zanesville.....		1
Garfield.....	2	1	Oklahoma:		
Hackensack.....	4		Oklahoma.....		3
Hoboken.....		3	Oregon:		
Jersey City.....	3		Portland.....		6
Kearny.....	1		Pennsylvania:		
Long Branch.....		1	Philadelphia.....	156	156
Montclair.....		1	Rhode Island:		
Morristown.....		4	Cranston.....		1
Newark.....	94	20	Cumberland.....	1	
Orange.....	3	1	Providence.....		18
Passaic.....	6	4	South Carolina:		
Paterson.....	12		Charleston.....	12	6
Perth Amboy.....		2	South Dakota:		
Plainfield.....	5	4	Sioux Falls.....		1

## CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Tennessee:			Virginia—Continued.		
Chattanooga.....	2		Richmond.....		7
Memphis.....		11	Roanoke.....		8
Nashville.....		2	West Virginia:		
Texas:			Bluefield.....		3
Amarillo.....	2		Charleston.....		4
Austin.....	4		Huntington.....		3
Beaumont.....		1	Morgantown.....	2	
Corsicana.....	2		Parkersburg.....		2
Dallas.....		6	Wheeling.....		2
Fort Worth.....		3	Wisconsin:		
Galveston.....		2	Ashland.....		2
Houston.....		1	Beloit.....	7	1
San Antonio.....		1	Kenosha.....		3
Utah:			Madison.....	1	
Salt Lake City.....		8	Marinette.....		2
Virginia:			Milwaukee.....		14
Alexandria.....		1	Oshkosh.....		2
Charlottesville.....		2	Racine.....		3
Norfolk.....		1	Sheboygan.....		1
Petersburg.....		4			

## POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks 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 Jan. 6, 1923.		City.	Median for previous years.	Week ended Jan. 6, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Massachusetts:				New York:			
Boston.....	0		1	New York.....	0	2	1
New Jersey:				Ohio:			
Paterson.....	0	1		Cleveland.....	0	2	

## RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:			
Los Angeles.....	14	Tennessee:	
Missouri:			
Kansas City.....	1	Memphis.....	1
Texas:			
		Beaumont.....	4

## RABIES IN MAN.

City.	Cases.	Deaths.
Massachusetts:		
Boston.....	1	1

**CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.**

**SCARLET FEVER.**

See p. 162; also Current State summaries, p. 148, and Monthly summaries by States, p. 152.

**SMALLPOX.**

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks 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 Jan. 6, 1923.		City.	Median for previous years.	Week ended Jan. 6, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Montana:			
Eureka.....	0	3		Anaconda.....	0	1	
Los Angeles.....	2	1		Great Falls.....	2	8	
Oakland.....	0	1		Missoula.....	0	1	
Sacramento.....	0	1		Nebraska:			
San Francisco.....	0	2		Omaha.....	6	1	
Colorado:				New York:			
Denver.....	9	10	5	Jamestown.....	0	5	
Florida:				North Carolina:			
St. Petersburg.....		1		Winston-Salem.....	0	8	
Georgia:				North Dakota:			
Augusta.....	0	2		Fargo.....	4	1	
Illinois:				Ohio:			
Alton.....	1	1		Lancaster.....	0	1	
Freeport.....	0	5		New Philadelphia.....	0	1	
Pekin.....	0	1		Toledo.....	1	1	
Indiana:				Oregon:			
Elwood.....	0	1		Portland.....	6	7	
Fort Wayne.....	0	3		Tennessee:			
Kokomo.....	0	1		Nashville.....	0	1	
Iowa:				Texas:			
Council Bluffs.....	2		1	Fort Worth.....	0	1	
Davenport.....	0	1		Utah:			
Marshalltown.....	1	1		Salt Lake City.....	4	5	1
Muscatine.....	0	1		Washington:			
Sioux City.....	2	1		Seattle.....	5	1	
Michigan:				Spokane.....	35	7	
Ann Arbor.....	0	1		Wisconsin:			
Detroit.....	5	1		Ashland.....	0	1	
Flint.....	1		1	Janesville.....	0	1	
Minnesota:				Superior.....	0	27	
Duluth.....	0	12					
Minneapolis.....	21	10					
St. Paul.....	13	17					

**TETANUS.**

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			New Jersey:		
Birmingham.....		2	Newark.....	2	
Tuscaloosa.....	1	1	North Carolina:		
Louisiana:			Durham.....		2
New Orleans.....		2	South Carolina:		
Minnesota:			Charleston.....		2
St. Paul.....		1	Tennessee:		
Missouri:			Nashville.....		1
St. Louis.....	1	1	Texas:		
Nebraska:			San Antonio.....		1
Omaha.....		1			

## CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

## TUBERCULOSIS.

See p. 162; also Current State summaries, p. 148.

## TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks 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 Jan. 6, 1923.		City.	Median for previous years.	Week ended Jan. 6, 1923.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Nevada:			
Birmingham.....	1	2		Reno.....	0		1
Mobile.....	0		1	New Jersey:			
Arkansas:				Morristown.....	0	2	
Hot Springs.....	0	2		Newark.....	0	1	
North Little Rock.....	0	1		Phillipsburg.....	0	1	
California:				West Hoboken.....	0	1	1
Eureka.....	0	1		New York:			
Long Beach.....	0	1		Albany.....	0	1	
Los Angeles.....	1	1		Buffalo.....	1	1	
San Francisco.....	1	1		New York.....	12	14	1
Connecticut:				Newburgh.....	0		1
Hartford.....	0		1	Poughkeepsie.....	0	1	
District of Columbia:				Troy.....	0	1	
Washington.....	2	3		Ohio:			
Florida:				Cleveland.....	2	5	1
Tampa.....	0	1		Sandusky.....	0	1	
Georgia:				Oregon:			
Valdosta.....	0	1		Portland.....	0	1	
Illinois:				Pennsylvania:			
Chicago.....	5	3		Easton.....	0	1	
Indiana:				Eric.....	1	2	
Hammond.....	0	1		Johnstown.....	0	2	
Indianapolis.....	1		1	McKeesport.....	0	2	
Iowa:				Philadelphia.....	7	5	1
Council Bluffs.....	0	1		Pittsburgh.....	2	3	
Kentucky:				Sharon.....	0	1	
Louisville.....	2		1	Tamaqua.....	0	1	
Louisiana:				South Carolina:			
New Orleans.....	5	3		Charleston.....	1		1
Maine:				Tennessee:			
Biddeford.....	0	1		Knoxville.....	0	1	
Maryland:				Memphis.....	1	1	
Baltimore.....	3	2		Texas:			
Frederick.....	0	1		Austin.....	0	1	
Massachusetts:				Dallas.....	0	1	1
Boston.....	1	1		Galveston.....	0	1	
Chelsea.....	0	1		San Antonio.....	0		1
Haverhill.....	0		1	Virginia:			
Lynn.....	0	1		Norfolk.....	0	1	
North Adams.....	0	2		Richmond.....	1	3	1
Northampton.....	0	1		Washington:			
Southbridge.....	0	1		Seattle.....	1	3	
Springfield.....	0	1		Spokane.....	0	4	
Waltham.....	0	1		Tacoma.....	0	1	
Michigan:				West Virginia:			
Detroit.....	3	3		Charleston.....	0		1
Grand Rapids.....	1	2		Huntington.....	0		1
Minnesota:				Morgantown.....	0	1	
Rochester.....	0	1		Wheeling.....	0	2	
Missouri:							
St. Louis.....	3	1					

CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

DIPHThERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Alabama:</b>										
Birmingham	178,806	79	2				5		4	6
Mobile	60,777	33	3						1	2
Montgomery	43,461	15								
Tuscaloosa	11,996	1								
<b>Arkansas:</b>										
Hot Springs	11,695	4								
Little Rock	65,142		1		2		2		3	
North Little Rock	14,048		4	1						
<b>California:</b>										
Alameda	28,806	6					1			
Eureka	12,923	4	2		2				1	1
Glendale	13,536	10								1
Long Beach	55,593	26	3		2		1			
Los Angeles	576,673	207	35	2	11		28	1	54	30
Oakland	216,261	46	9	1	2		8		1	2
Pasadena	45,354	8	4		1		4		2	1
Richmond	16,843	4	1							
Riverside	19,341	8							2	2
Sacramento	65,908	15	4		1		5		2	1
San Bernardino	18,721	9	1						1	4
San Diego	74,683	32	5		2		1		6	4
San Francisco	506,676	154	23	3	2		10		14	15
San Jose	39,442	6	3				1			
Santa Ana	15,485	4								
Santa Barbara	19,441	6								
Santa Cruz	10,917	5								1
Stockton	40,296	12	3				2			
Vallejo	21,107	2								
<b>Colorado:</b>										
Denver	256,491	85	39	4	2		6	1		9
Pueblo	43,050	11	5	2	1		1		2	2
<b>Connecticut:</b>										
Bridgeport	143,555	34	6	2	40		14		4	2
Bristol	20,620	2			19				1	
Derby	11,238	7								
Fairfield (town)	11,475	0	2		2		2		3	
Greenwich (town)	22,123						5		3	
Hartford	138,036	24	6	2	9		8		1	
Manchester (town)	18,370	2							1	
Meriden (city)	28,867								1	
Milford (town)	10,193	0								
New Haven	162,537	60	3	1	44	2	9		6	2
Orange (town)	16,614						1			
Stonington (town)	10,236	2			6					
<b>District of Columbia:</b>										
Washington	437,571	162	18	1	22		21		27	12
<b>Florida:</b>										
St. Petersburg	14,237	9					1			
Tampa	51,608	18	1				2			1
<b>Georgia:</b>										
Atlanta	200,616	106	10		1		7		2	3
Augusta	52,548	22							1	1
Brunswick	14,413	7							1	1
Macon	52,995	8	1		55		1		1	
Rome	15,252		1							
Savannah	83,252	47	4						1	8
Valdosta	10,785	0								
<b>Idaho:</b>										
Boise	21,393	5								
Pocatello	15,001	9								1
<b>Illinois:</b>										
Alton	24,682	3	7				6			
Aurora	36,397	10	8		1		1		2	
Bloomington	28,725	4							1	1
Blue Island	11,424		1						1	
Centralia	12,491	5	2				1			
Chicago	2,701,705	709	211	22	161	2	92	3	129	43
Cicero	44,995	10	2		2		3		1	1
Decatur	43,818	12	3				2			
East St. Louis	66,767	15					1		1	1
Elgin	27,454	13	1	1	1		2		2	1
Evanston	37,234	13			2		2			
Forest Park	10,768		1							

## CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.

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

City.	Popula- tion Jan. 1, 1920.	Total deaths from all cause:	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Illinois—Continued</b>										
Freeport	19,669	9	7				6			
Galesburg	23,834	7	3		1		1			
Jacksonville	15,713	8					1			
Kewanee	16,026	11	1				1			
La Salle	13,050	3			24		1			
Mattoon	13,552	4	1							1
Oak Park	89,858	12	2		4		5			
Pekin	12,086	1	1							
Peoria	76,121	24					9			2
Quincy	35,978	10								
Springfield	59,183	23	4		38		3		2	1
<b>Indiana</b>										
Anderson	29,767	7		1						
Crawfordsville	10,139	2			1					1
East Chicago	35,967	9								1
Elwood	10,790	3	1							1
Fort Wayne	86,549		13	1			1			
Frankfort	11,885	4	3							
Hammond	36,004	9	3		2		2			
Huntington	14,000	3								
Indianapolis	314,194	82	29	4	1		1		6	6
Kokomo	30,067	10	3	1						
La Fayette	22,486	6								
Laporte	15,158	4					2			
Logansport	21,626	7								
Mishawaka	15,195	3			62		1			1
Muncie	36,524	10					3			
South Bend	70,983	9			66		3		1	
Terre Haute	66,083	14	4		2		1	1		
<b>Iowa</b>										
Burlington	24,057	10	3				4		2	1
Cedar Rapids	45,366		2				4			
Clinton	24,151	1	6	1						
Council Bluffs	36,162	14	1	1			2			
Davenport	36,727		13				2			
Des Moines	128,468		9				11			
Dubuque	39,141				24		1			
Iowa City	11,267		4							
Marshalltown	15,731						1			
Mason City	20,065	5	4							
Muscatine	16,038	7								
Ottumwa	23,003	1	1							
Sioux City	71,227	1	5				10		6	
Waterloo	36,230						2			
<b>Kansas</b>										
Coffeyville	13,452	0					1			
Fort Scott	10,693	5	2							1
Hutchinson	29,298				1		1			
Kansas City	101,177		5		1		6		2	
Lawrence	12,456	4	4				1			
Parsons	16,028	6	1							
Salina	15,083	3	2						1	
Topeka	50,022	8	7		2		4			
Wichita	72,217	58	32	1			6		1	1
<b>Kentucky</b>										
Covington	57,121	19	2				1			
Henderson	12,160	6			36					1
Lexington	41,524	19	2				1			2
Louisville	234,391	80	15	2	2		4		14	
Paducah	24,735				44					
<b>Louisiana</b>										
New Orleans	387,219	160	16	1			2		17	13
<b>Maine</b>										
Auburn	16,985	8					6			1
Bangor	25,978		1				1			
Bath	14,731	8								
Biddeford	18,096	9								1
Lewiston	31,704	12					3		3	
Portland	69,572	30	9		30		1			
Sanford (town)	10,691	3	1				1			
Waterville	13,351						1			
<b>Maryland</b>										
Baltimore	733,826	270	64	1	31		29		35	2
Cumberland	29,837	6	1		5		1			
Frederick	11,066	7	3		2					

CITY REPORTS FOR WEEK ENDED JANUARY 6, 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:</b>										
Adams (town) . . . . .	12,967	2	1				1			
Amesbury (town) . . . . .	10,036	4								
Arlington (town) . . . . .	18,665	6	1			2		3		
Attleboro . . . . .	19,731	8				14				2
Belmont (town) . . . . .	10,749	4				6				
Beverly . . . . .	22,561	5	1							
Boston . . . . .	748,060	255	66	4	63		56		18	15
Braintree (town) . . . . .	10,580	1				10		1	1	
Brookline . . . . .	37,748	16	3			3		1		
Cambridge . . . . .	109,694	39	6	1		22	1	6	4	3
Chelsea . . . . .	43,184	27	2			25		5		
Chicopee . . . . .	36,214	10								1
Clinton . . . . .	12,979	4					1			
Danvers . . . . .	11,108									
Dedham . . . . .	40,120	5	3	1						
Everett . . . . .	40,120	9				4		2		1
Fall River . . . . .	120,485	45	15	4	87	5	9		6	3
Framingham . . . . .	17,033	2							1	
Gardner . . . . .	15,971		1				1	5		
Greenfield . . . . .	15,682	3	1							
Haverhill . . . . .	55,884	26	2	1	1		7	1	1	1
Holyoke . . . . .	60,203	20	5				1	1	2	2
Lawrence . . . . .	94,270	22	4		1		1		2	
Leominster . . . . .	19,744	9							1	
Lowell . . . . .	112,759	22	9	2	12		3			1
Lynn . . . . .	95,148	20	6		80		5		6	1
Malden . . . . .	49,103	14	2		4		2		3	
Melrose . . . . .	39,038	3			12		3		1	
Methuen . . . . .	18,204	5	1				4		1	
New Bedford . . . . .	15,189	5								
New Bedford . . . . .	121,217	43	6	1	183	4	4		4	2
Newburyport . . . . .	15,618	4			4		2			
Newton . . . . .	46,054	12	1		7		6		3	1
North Adams . . . . .	22,282	7					1			
Northampton . . . . .	21,951	4					2			
Northbridge . . . . .	10,174	3								
Peabody . . . . .	19,552	7	1						1	
Pittsfield . . . . .	41,763	13	3				11			1
Plymouth . . . . .	13,045	4								
Quincy . . . . .	47,876	5	1				5			
Salem . . . . .	42,529	17	2	1	3		2			
Saugus . . . . .	10,874	2			2		1			
Somerville . . . . .	93,091	39	10	2	8		14		2	2
Southbridge . . . . .	14,245	2								
Springfield . . . . .	123,614	36	5	1	7		2		3	2
Taunton . . . . .	37,137	15			17		4		3	
Wakefield . . . . .	13,025	5	1						1	1
Waltham . . . . .	30,915	12	3				7		1	2
Watertown . . . . .	21,457	4	2				2			
Webster . . . . .	13,258	5			1		1		1	1
West Springfield . . . . .	13,443	2								
Westfield . . . . .	18,604	2	1						1	
Winthrop . . . . .	15,455	7			1					
Woburn . . . . .	16,574	2								
Worcester . . . . .	179,754	37	6	1			11		7	2
<b>Michigan:</b>										
Alpena . . . . .	11,101		1							
Ann Arbor . . . . .	19,516	8			2		2			1
Battle Creek . . . . .	36,164		4				4			
Benton Harbor . . . . .	12,233	5	3		30		2			
Detroit . . . . .	993,678	282	75	5	15	1	72	2	35	11
Flint . . . . .	91,599	26	11		4		19		2	1
Grand Rapids . . . . .	137,634	37	10	1	1		17		2	
Hamtramck . . . . .	48,615	14	5	2						1
Highland Park . . . . .	46,499	10	3		1		11		1	
Holland . . . . .	12,133						4			
Jackson . . . . .	48,374	10					6			1
Kalamazoo . . . . .	48,487	22	6	1	2		8		1	1
Marquette . . . . .	12,718	4								
Muskegon . . . . .	36,570	8	8				2			
Pontiac . . . . .	34,273	7	2				2		1	2
Port Huron . . . . .	25,944	6	1				5			
Sault Ste. Marie . . . . .	12,096	3	1							



**CITY REPORTS FOR WEEK ENDED JANUARY 6, 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.										
Glens Falls.....	16, 638	3								
Hornell.....	15, 025	1								
Hudson.....	11, 745	5								
Ithaca.....	17, 004	8					3		1	1
Jamestown.....	38, 917	9	2				1			
Lackawanna.....	17, 918	1			3		6		1	
Lockport.....	21, 308	8			1				1	1
Mount Vernon.....	42, 726	10	1		39		2			
New York.....	5, 620, 048	1, 471	212	17	246	3	210	2	127	102
Newburgh.....	30, 366	6			1					
Niagara Falls.....	50, 760	11	2	1	2		4		2	
North Tonawanda.....	15, 482	5			2		5			1
Ogdensburg.....	14, 609	5								1
Olean.....	20, 506	4	1		10	1	1			
Peekskill.....	15, 868	4	1				8			
Plattsburg.....	10, 909	4								
Port Chester.....	16, 573	4	3							
Poughkeepsie.....	35, 000	12			1		2		3	
Rochester.....	295, 750	68	8	2	97		1		10	2
Rome.....	26, 341	15					1			
Saratoga Springs.....	13, 181	4					2			
Schenectady.....	88, 723	18	4		4		4		1	2
Syracuse.....	171, 717	52	28	3	4		13		6	1
Troy.....	72, 013	30	3		1					
Watertown.....	31, 285	11								
White Plains.....	21, 031	7					3			
North Carolina:										
Durham.....	21, 719	8	3				2			
Greensboro.....	15, 861	14								
Raleigh.....	24, 418	22	2				1			1
Rocky Mount.....	12, 742	10								
Salisbury.....	13, 884	11								1
Wilmington.....	33, 372	10	2				1			1
Winston-Salem.....	48, 395	16			1		4			1
North Dakota:										
Fargo.....	21, 961	0					2			
Grand Forks.....	14, 010						1			
Ohio:										
Akron.....	208, 435	28	7		2		16		1	
Ashtabula.....	22, 082	7								
Barberton.....	18, 811	4			1		4			
Bellaire.....	15, 061	1			1					
Bucyrus.....	10, 425	1					1			
Cambridge.....	13, 104	2	1		4		1			
Canton.....	87, 091	23	4		1				1	2
Chillicothe.....	15, 831	3	4				2			
Cincinnati.....	401, 247	173	19		3				15	
Cleveland.....	796, 841	225	47	2	67		128	3	25	16
Cleveland Heights.....	15, 236						4		1	
Coshocton.....	10, 847						2			
Dayton.....	152, 559	50	9				9		1	
East Cleveland.....	27, 292	3	1				4		1	
East Youngstown.....	11, 237	2		1						
Findlay.....	17, 021	6			52					1
Hamilton.....	39, 675	17	1	1	2					4
Lancaster.....	14, 706	7	4							
Lima.....	41, 326	10	1				1			
Lorain.....	37, 295	3	3		35		4			
Mansfield.....	27, 824	6			39	1			1	
Marion.....	27, 891		3				1		2	
Martins Ferry.....	11, 634	3	1		26					
Middletown.....	23, 594	3	1							
New Philadelphia.....	10, 718		1							
Newark.....	26, 718	4			1		1			
Niles.....	13, 080	0					3		1	
Norwood.....	24, 966	1			1		1			
Piqua.....	15, 044	3					1			
Salem.....	10, 305	4	2				1			
Sandusky.....	22, 897	8	1		1		1			
Springfield.....	60, 840	11	2		1		2			1
Steubenville.....	28, 508	6					1		1	
Tiffin.....	14, 375	1	1	1						
Toledo.....	243, 164	56	25	2	479	1	24		5	2
Youngstown.....	132, 358		21	1	4				2	1
Zanesville.....	29, 569	12	1		45		1			2

1 Pulmonary tuberculosis only.

**CITY REPORTS FOR WEEK ENDED JANUARY 6, 1923—Continued.**  
**DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.**

City.	Popula- tion Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Oklahoma:										
Oklahoma.....	91,295	15	3		2		3			2
Tulsa.....	72,075				4		2			
Oregon:										
Portland.....	258,288	65	12				5		3	7
Pennsylvania:										
Allentown.....	73,502		19		48		7		1	
Altoona.....	60,331		4		25		2			
Ambridge.....	12,730		1		25					
Beaver Falls.....	12,802		3		7					
Berwick.....	12,181		1				5			
Bethlehem.....	50,353		12		4		6			
Braddock.....	20,879		1		4					
Bristol.....	10,273		2		12					
Butler.....	23,773		1		2		2			
Canonsburg.....	10,632		1		5				1	
Carbondale.....	18,640		1							
Carnegie.....	11,516				44					
Carrick.....	10,504				7		4		1	
Chambersburg.....	13,171				7		5			
Charleroi.....	11,516		1				1			
Chester.....	58,030		2		61		3			
Coatesville.....	14,515				20		1			
Dickson.....	11,049				1					
Donora.....	14,131				8					
Dubois.....	13,681		5							
Duquesne.....	19,011				84					
Easton.....	33,813				4					
Eric.....	93,372		2		1		1		9	
Farrell.....	15,586				10		1			
Greensburg.....	15,033		2		11					
Harrisburg.....	75,917		3		79		18			
Hazleton.....	32,277		1				1			
Homestead.....	20,452		3		5		1		1	
Jeannette.....	10,627		1						1	
Johnstown.....	67,327		4		2		1			
Lancaster.....	53,150		4		4		9			
Lebanon.....	24,643		1		65		8			
McKees Rocks.....	16,713		1		6					
McKeesport.....	46,781		3				2		2	
Monessen.....	18,179		3		1		1			
Mount Carmel.....	17,469		1						1	
Nanticoke.....	22,614		1							
New Castle.....	44,938		2				2			
New Kensington.....	11,987				7					
Norristown.....	32,319				98					
Oil City.....	21,274		1		3					
Philadelphia.....	1,823,779	719	77	10	944	27	47	1	49	55
Phoenixville.....	10,484				100					
Pittsburgh.....	558,343		53		418		48		12	
Pittston.....	13,497		1							
Plymouth.....	16,500		3							
Pottstown.....	17,431				4					
Punxsutawney.....	10,311		3		2		1			
Reading.....	107,784				177		1			
Seranton.....	137,783		7		22		3			
Sharon.....	21,747		1							
Shenandoah.....	24,726		1							
Steelton.....	13,428				86				1	
Sunbury.....	15,721						1			
Swissvale.....	10,908				6					
Tamaqua.....	12,363		1		6		1			
Uniontown.....	15,692				1		4			
Washington.....	21,480						2		2	
West Chester.....	11,717		1		78		3			
Wilkes-Barre.....	73,833		1				5			
Wilkesburg.....	24,403		8				1			
Williamsport.....	36,198						2			
Woodlawn.....	12,495		1		9					
York.....	47,512		1		1		5		1	
Rhode Island:										
Cranston.....	29,407	5			4					
Cumberland (town).....	10,077	2			20					
Newport.....	30,255	3					1			
Providence.....	237,595	85	9	1	111		8			



## FOREIGN AND INSULAR.

### AZORES.

#### Plague—St. Michaels Island.

During the period November 26–December 9, 1922, 34 cases of plague with 9 deaths were notified on St. Michaels Island, Azores. Of these, three cases occurred at the port of Ponta Delgada.

### CANADA.

#### Communicable Diseases—Ontario—December, 1922 (Comparative).

During the month of December, 1922, communicable diseases were notified in the Province of Ontario, Canada, as follows:

Disease.	December 1922.		December, 1921.	
	Cases.	Deaths.	Cases.	Deaths.
Cerebrospinal meningitis.....	6	6	5	3
Diphtheria.....	315	40	743	60
Measles.....	359	1	94	2
Pneumonia:				
Influenzal.....		18		4
Primary.....		282		215
Poliomyelitis (infantile paralysis).....	4	1	1	
Scarlet fever.....	449	14	600	16
Smallpox.....	51	1	128	
Typhoid fever.....	54	17	28	5
Tuberculosis.....	196	122	174	139
Whooping cough.....	234	8	95	9

#### Venereal Diseases—December, 1922 (Comparative).

During the month of November, 1922, there were reported in the Province of Ontario 3 cases of chancroid, 179 of gonorrhoea, and 133 of syphilis, as compared with 5 cases of chancroid, 230 of gonorrhoea, and 183 of syphilis reported for the month of December, 1921.

### CHILE.

#### Typhus Fever—Antofagasta—Nitrate Region.

Information dated December 5, 1922, shows spread of typhus fever at Antofagasta, Chile. A case, with fatal termination, was reported during the week ended November 11, 1922, in a laborer arrived from the south.<sup>1</sup> The patient was later stated to have come from Taltal, a coast town. Spread of the disease at Antofagasta was reported as

<sup>1</sup> Public Health Reports, Dec. 15, 1922, p. 3122.

follows: November 28, 4 cases; November 29, 2 cases; November 30, 1 case; December 4, 2 cases from a nitrate center in the interior; December 5, 1 death and a case from a nitrate center; making a total of 10 cases present December 5, and a history of 2 fatalities. On December 5, 1922, measures to prevent further spread were stated to be in force, including disinfection of railway cars and medical examination of arrivals at the port.

**CUBA.**

**Communicable Diseases—Habana.**

Communicable diseases have been notified at Habana as follows:

Disease.	Dec. 21-31, 1922.		Remain- ing under treatment Dec. 31, 1922.
	Cases.	Deaths.	
Chicken pox.....	5	.....	4
Diphtheria.....	3	.....	5
Leprosy.....	.....	.....	10
Malaria.....	70	3	162
Measles.....	1	.....	1
Paratyphoid fever.....	.....	.....	5
Scarlet fever.....	.....	.....	2
Typhoid fever.....	17	5	294

<sup>1</sup> From the interior, 35; from abroad, 2.

<sup>2</sup> From the interior, 30.

**CZECHOSLOVAKIA.**

**Communicable Diseases—October, 1922.**

Communicable diseases were reported in Czechoslovakia during the month of October, 1922, as follows:

Disease.	Cases.	Deaths.	Provinces reporting greatest number of cases.
Cerebrospinal meningitis.....	13	6	Bohemia, 8 cases.
Diphtheria.....	335	30	Bohemia, 185 cases.
Scarlatina.....	1,221	103	Moravia, 400 cases.
Smallpox.....	3	.....	Bohemia; Moravia; Slovakia.
Trachoma.....	222	.....	Slovakia, 81 cases.
Typhoid fever.....	641	53	Slovakia, 313 cases.
Typhus fever.....	1	.....	Ruthenia.

**Dysentery—Rabies—Malaria—October, 1922.**

During the same period, 177 cases of dysentery with 35 deaths, 2 fatal cases of rabies, and 5 cases of malaria were reported.

**ECUADOR.**

**Plague-Infected Rats—Guayaquil.**

During the period December 1-15, 1922, out of 4,100 rats examined, 6 rats were found plague infected.

**HAITI.****Bacillary Dysentery.**

Under date of December 26, 1922, bacillary dysentery was stated to be endemic in certain sections of the Republic of Haiti.

**INDIA.****Anthrax—Burma—October, 1922.**

The veterinary department of Burma, India, during the month of October, 1922, reported outbreaks of anthrax, occurring in the military police lines, Pyawbwe, Yamethin district, and in two townships each of the districts of Mandalay and Meiktila, Burma.

**Anthrax—Madras Presidency—September, 1922.**

During the month of September, 1922, 206 deaths from anthrax in the Presidency of Madras, India, were reported by the civil veterinary department of the Presidency.

**IRELAND.****Outbreak of Typhus Fever—Belmullet.**

Information dated December 14, 1922, shows an outbreak of typhus fever at Belmullet, County Mayo, Ireland. The disease was stated to have appeared about June 15, 1922, and to have continued to appear at intervals with a total of 20 cases reported to December 14, 1922. The origin of the outbreak was attributed to overcrowding in an unused coast-guard station in which refugee families had taken shelter. Belmullet was stated to be a long-recognized typhus fever district, the population being congested, living in poor economic conditions and housing animals in dwellings.

**JAMAICA.****"Alastrim."**

During the three weeks ended December 30, 1922, 75 new cases of "alastrim" were reported in the island of Jamaica.

**Typhoid Fever—Kingston and Vicinity.**

During the same period, 12 cases of typhoid fever were reported at Kingston, Jamaica, and 23 cases in the surrounding country.

**JAPAN.****Plague—Osaka.**

Under date of December 12, 1922, plague was reported spreading in Osaka, Japan, a city of 1,252,972 population, situated 20 miles east of Kobe. Sporadic outbreaks began to appear in July, 1922,

and the cases officially reported during the period July 1 to November 30, 1922, are as follows:

Period.	New cases.	Period.	New cases.
July 1-10.....	1	Oct. 1-10.....	4
July 11-20.....	7	Oct. 11-20.....	7
July 21-31.....	4	Oct. 21-31.....	11
Aug. 1-10.....	0	Nov. 1-10.....	11
Aug. 11-20.....	0	Nov. 11-20.....	11
Aug. 21-31.....	0	Nov. 21-30.....	13
Sept. 1-10.....	0		
Sept. 11-20.....	1	Total.....	70
Sept. 21-30.....	0		

A sharp increase in the number of new cases is shown for the latter part of October and the month of November, and it is stated that the disease has spread from the district in which it originated to two other wards of the city.

The sanitary authorities have taken measures to suppress the disease, including quarantine, rat-proofing, and rat eradication. Plague-infected rats have been killed in all sections of the city.

The American consul at Kobe has taken precautionary measures to prevent the transmission of the disease to the United States. These measures were adopted shortly after the appearance of the first case of the disease, and consist of the following:

1. All vessels leaving Osaka Harbor for the United States must be fumigated before a bill of health is granted.
2. All merchandise which may carry infected fleas, such as rags, old clothing, etc., must be thoroughly disinfected before shipment to the United States.
3. All merchandise which may attract rats, such as fruits and vegetables, must be packed in crates into which rats can not enter, before shipment to the United States.

**PANAMA CANAL.**

**Communicable Diseases—November, 1922.**

Communicable diseases were notified for the Panama Canal during the month of November, 1922, as follows:

Disease.	Canal Zone.	Colon.	Panama.	Nonresident.	Total.
Chicken pox.....	6	6	1	3	16
Diphtheria.....	3	1	17	1	22
Dysentery.....	1	1	5	1	8
Hookworm disease.....	19	11	13	26	69
Malaria.....	70	8	15	31	124
Measles.....			1		1
Mumps.....		1		1	2
Pneumonia.....	1	2	8		11
Poliomyelitis.....	1				1
Scarlet fever.....	1				1
Tuberculosis.....	5	6	11	10	32
Typhoid fever.....		1		1	2

### Quarantine Against Ports in Chiriqui Province Removed.

Inspection of the western portion of Chiriqui Province, Republic of Panama, of which report was received under date of December 26, 1922, shows practically no smallpox present there. Varicella (chicken pox) was stated to be prevalent. In the eastern portion of the Province a few cases of smallpox were believed to be present in the vicinity of Remedios. It was stated that there was very little maritime communication with that portion of the Republic.

The quarantine circular issued by the chief quarantine officer, Panama Canal, December 22, 1921, imposing maritime quarantine against Chiriqui Province, Republic of Panama, on account of the presence there of smallpox, was declared canceled December 26, 1922.

### RUSSIA.

#### Communicable Diseases—Esthonia—November, 1922.

Communicable diseases were notified in the Province of Esthonia, Russia, during the month of November, 1922, as follows:

Disease.	Cases.	Remarks.
Diphtheria.....	35	
Measles.....	120	
Scarlet fever.....	93	
Smallpox.....	33	
Tuberculosis.....	130	
Typhoid fever.....	51	
Typhus fever.....	1	
Typhus fever, recurrent.....	2	Paratyphus fever, 10 cases.

### SPAIN.

#### Plague—Barcelona.

Under date of December 18, 1922, the occurrence of a case of plague was reported at Barcelona, Spain, for the period November 15–December 18, 1922. The total number of reported cases from September 24 to November 14, 1922, was 23, with 9 deaths.

### VIRGIN ISLANDS.

#### Disease Prevalence—November, 1922.

During the month of November, 1922, disease prevalence was reported in the Virgin Islands as follows:

Island and disease.	Cases.	Remarks.
St. Thomas and St. John:		
Chancroid.....	3	
Dengue.....	9	
Gonococcus infection.....	3	
Syphilis.....	2	Imported, 2.
St. Croix:		
Chancroid.....	1	
Chicken pox.....	3	
Dengue.....	1	
Dysentery.....	1	Entamebic.
Filariasis.....	3	Bancrofti.
Gonorrhoea.....	4	
Syphilis.....	1	Secondary.
Tetanus.....	1	
Trachoma.....	1	
Tuberculosis.....	1	Chronic pulmonary.

## WEST INDIES.

"Alastrim" or Smallpox—Island of Dominica.<sup>1</sup>

Information dated December 5, 1922, shows continued presence of "alastrim" or smallpox at Dominica, West Indies (Leeward Islands), with about 2,000 recognized cases, with no reported mortality.

## Basse Terre—Island of Guadeloupe.

Information dated December 19, 1922, indicates the presence of "alastrim" at Basse Terre, Guadeloupe, Leeward Islands.

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

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

Reports Received During Week Ended January 26, 1923.<sup>a</sup>

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Oct. 29-Nov. 11, 1922: Cases, 1,958; deaths, 1,316.
Madras.....	Dec. 3-9.....	1		

## PLAGUE.

Azores:				
St. Michaels Island.....				Nov. 26-Dec. 9, 1922: Cases, 34; deaths, 9. Vicinity of port.
Ponta Delgada.....	Nov. 26-Dec. 9.....	3		
Ceylon:				
Colombo.....	Nov. 26-Dec. 2.....	4	4	Plague rodents: 2.
China:				
Hongkong.....	.. do.....	3	2	
Ecuador:				
Guayaquil.....	Dec. 1-15.....			Rats examined, 4,100; found infected, 6.
Egypt.....				Jan. 1-Dec. 21, 1922: Cases, 485; deaths, 228.
India.....				Oct. 29-Nov. 11, 1922: Cases, 3,075; deaths, 2,069.
Bombay.....	Nov. 19-25.....	6	5	
Madras Presidency.....	Dec. 3-9.....	344	243	
Japan:				
Osaka.....				July 1-Nov. 30, 1922: Cases, 70.
Spain:				
Barcelona.....	Nov. 15-Dec. 18.....	1		Sept. 24-Nov. 14, 1922: Cases, 23; deaths, 9.

## SMALLPOX.

Arabia:				
Aden.....	Dec. 10-16.....	2		
Brazil:				
Rio de Janeiro.....	Nov. 25-Dec. 16.....	27	5	
Sao Paulo.....	Oct. 16-22.....	1	1	
Canada:				
Manitoba—				
Winnipeg.....	Dec. 24-30.....	2		
Ontario.....				Dec. 1-31, 1922: Cases, 51; deaths, 1.
Niagara Falls.....	Dec. 17-30.....	5		
Do.....	Dec. 31-Jan. 6.....	5		
Ceylon:				
Colombo.....	Nov. 26-Dec. 2.....	1	1	

<sup>1</sup> Public Health Reports, Aug. 11, 1922, p. 1973, and Sept. 8, 1922, p. 2223.

<sup>a</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 January 26, 1923—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	Nov. 26-Dec. 2.....			Present.
Canton.....	Oct. 1-Nov. 30.....			Prevalent.
Foochow.....	Nov. 19-Dec. 2.....			Present.
Manchuria—				
Harbin.....	Nov. 20-26.....	5		
Nanking.....	Nov. 26-Dec. 9.....			Do.
Chosen (Korea):				
Chemulpo.....	Nov. 1-30.....	48	29	
Fusan.....	do.....	1		
Seoul.....	do.....	1		
Czechoslovakia:				
Bohemia.....	Oct. 1-31.....	1		Oct. 1-31, 1922: Cases, 3.
Moravia.....	do.....	1		
Slovakia.....	do.....	1		
Ecuador:				
Guayaquil.....	Dec. 1-15.....	6		
Great Britain:				
Liverpool.....	Dec. 17-23.....	1		From vessel.
Greece:				
Saloniki.....	Dec. 4-10.....	3		
India:				
Bombay.....	Nov. 19-25.....	1	1	Nov. 5-18, 1922: Cases, 1,390;
Karachi.....	Dec. 3-9.....	2		deaths, 276.
Madras.....	do.....	9	4	
Mexico:				
Mexico City.....	Nov. 26-Dec. 16.....	26		Including municipalities in Fed-
				eral District.
Nogales.....	Dec. 31-Jan. 6.....		1	
Torreón.....	Dec. 1-31.....		1	
Portugal:				
Lisbon.....	Dec. 4-16.....	39	4	
Oporto.....	Dec. 10-23.....	3	3	
Russia:				
Esthonia.....	Nov. 1-30.....	33		
Spain:				
Valencia.....	Dec. 17-23.....	1		
Syria:				
Aleppo.....	Dec. 10-23.....	14	8	
Damascus.....	Nov. 1-30.....	82	16	
Switzerland:				
Berne.....	Dec. 10-16.....	22		
Zurich.....	Dec. 3-16.....	16		
Tunis:				
Tunis.....	Dec. 16-22.....		1	
Union of South Africa:				
Cape Province.....	Oct. 29-Nov. 18.....			Outbreaks.
Southern Rhodesia.....	Nov. 9-15.....	3		
Transvaal.....	Oct. 29-Nov. 4.....			Do.
On vessel:				
	Dec. 17-23.....	1		At Liverpool, England.

**TYPHUS FEVER.<sup>1</sup>**

Brazil:				
Porto Alegre.....	Dec. 10-16.....	2		
Chile:				
Antofagasta.....	Nov. 12-Dec. 23.....	21	5	Nov. 11-Dec. 5, 1922: Cases, 10;
Concepcion.....	Nov. 21-27.....		4	deaths, 2.
Talcahuano.....	Nov. 12-Dec. 16.....	8	6	
China:				
Manchuria—				
Harbin.....	Nov. 20-26.....	7		
Czechoslovakia:				
Province—				
Ruthenia.....	Oct. 1-31.....	1		
Egypt:				
Cairo.....	Oct. 8-21.....	3	2	
Ireland:				
Belmullet.....	June 15-Dec. 14.....	20		In County Mayo.

<sup>1</sup> Typhus fever has been reported erroneously at Brisbane, Australia, as follows: July 9-15, 1922, one case, appearing in Public Health Reports, Sept. 22, 1922, p. 2340; and Aug. 6-12, 1922, one case, appearing in Public Health Reports, Oct. 6, 1922, p. 2465.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received During Week Ended January 26, 1923—Continued.****TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico: Mexico City.....	Nov. 26-Dec. 16..	48		Including municipalities in Federal District.
Persia: Teheran.....	Sept. 24-Oct. 24..		1	
Russia: Esthonia.....	Nov. 1-30.....	1		Recurrent typhus fever, 2 cases.
Syria: Aleppo.....	Dec. 10-16.....	1	1	
Union of South Africa: Cape Province.....	Oct. 29-Nov. 18..			Outbreaks. Do. Do.
Orange Free State.....	Nov. 12-18.....			
Transvaal.....	Oct. 29-Nov. 18..			

**Reports Received from December 30, 1922, to January 19, 1923.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China: Liutaoku.....	Sept. 22.....	60	20	Sept. 22, 1922: 30 deaths reported. Sept. 24-Oct. 28, 1922: Cases, 4,616; deaths, 3,070.
Chosen (Korea): Yalu River Region.....				
India: Bombay.....	Oct. 27-Nov. 4..	1		
Calcutta.....	Nov. 12-Dec. 2..	34	21	
Madras.....	Nov. 19-25.....	2	1	
Rangoon.....	Nov. 12-25.....	5	3	
Philippine Islands: Province— Laguna.....	Oct. 12-18.....	1		Jan. 1-Oct. 7, 1922: Cases, 83,367.
Russia: Archangel (government).....	Oct. 1-7.....	7		
Tashkent.....	do.....	27		Turkestan Republic: 3 cases reported on waterways.
Ukraine: Donetz (Government).....	Sept. 1-30.....	29		Sept. 1-30, 1922: Cases, 119.
Tchernigov (Government).....	do.....	36		
Siam: Bangkok.....	Oct. 29-Nov. 4..	1		

**PLAGUE.**

Azores: Fayal Island— Castelo Branco.....	Dec. 2.....		2	Vicinity of Horta.
Pico Island— Lages.....	Nov. 27-Dec. 15..		8	1 case present Dec. 15, 1922. At localities 3-9 miles from Ponta Delgada.
St. Michael's Island.....	Nov. 12-25.....	32	15	
Brazil: Bahia.....	Oct. 29-Nov. 18..	1	1	
Porto Alegre.....	Nov. 19-25.....	1		
British East Africa: Kenya Colony— Tanganyika Territory.....	Oct. 15-21.....		1	
Ceylon: Colombo.....	Nov. 12-18.....	9	5	Plague rodents, 3.
China: Hongkong.....	Nov. 5-18.....	6	6	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources. For reports received from July 1 to Dec. 29, 1922, see Public Health Reports for Dec. 29, 1922. The tables of epidemic diseases are terminated semiannually and new tables begun.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from December 30, 1922, to January 19, 1923—Continued.****PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Guayaquil.....	Nov. 1-30.....	1	1	Rats examined, 8,950; found infected, 32.
Egypt.....				Jan. 1-Dec. 7, 1922; Cases, 484; deaths, 227.
City—				
Alexandria.....	Nov. 19-25.....	2	2	
Port Said.....	Nov. 19-27.....	4	4	
Suez.....	Nov. 18-Dec. 5.....	3	4	
Province—				
Assiout.....	Nov. 19.....	1	1	
Dakhalieh.....	Dec. 3.....	1	1	Pneumonic.
Minieh.....	Nov. 18-27.....	2	1	
India.....				Oct. 1-28, 1922; Cases, 7,569; deaths, 6,567.
Bombay.....	Oct. 27-Nov. 18.....	16	14	
Madras Presidency.....	Nov. 19-Dec. 2.....	700	449	
Madras.....	Nov. 19-25.....	1	1	
Rangoon.....	Nov. 12-25.....	16	15	
Java.....				Oct. 1-31, 1922; Cases, 454; deaths, 338.
East Java—				
Soerabaya.....	Oct. 22-28.....	1	1	
Soerakarta—				
Klaten.....	Nov. 4.....			Present in epidemic form.
Madagascar:				
Province—				
Moramanga.....				To Oct. 30, 1922; Cases, 21; deaths, 18. Pneumonic.
Tananarive.....				To Oct. 30, 1922; Cases, 7; deaths, 7. Septicemic. Occurring in Fenoarivo region. (See Public Health Reports, Dec. 29, 1922, p. 3237.)
Do.....	Oct. 23-29.....		1	Septicemic.
Mesopotamia:				
Bagdad.....	Oct. 1-31.....	7		
Palestine:				
Jaffa.....	Nov. 27-Dec. 4.....	1		
Peru.....				Nov. 1-30, 1922; Cases, 83; deaths, 42.
Localities—				
Cañete.....	Nov. 16-30.....	16	7	
Chepen.....	Nov. 1-15.....			Present.
Chiclayo.....	Nov. 16-30.....	11	7	
Eten.....	do.....	3		
Guadaloupe.....	Nov. 1-30.....	11	5	
Huacho.....	Nov. 16-30.....	2	1	
Huaral.....	do.....	1		
Jayanca.....	do.....	3	2	
Lambayeque.....	do.....	5	3	
Lima suburb.....	Nov. 1-30.....	6	1	
Lima (City).....	Nov. 1-30.....	3	3	
Magdalena del Mar.....	Nov. 16-30.....	1		
Mosche.....	do.....	2	1	
Piura.....	do.....	8	5	
San Pedro.....	Nov. 1-30.....	5	3	
Sullana.....	Nov. 16-30.....	3	3	
Trujillo.....	Nov. 1-15.....		1	
Tuman.....	Nov. 16-30.....	3		
Portugal:				
Lisbon.....	Nov. 10-29.....	4	2	
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 1-28.....		27	Fatal cases among white population.
Siam:				
Bangkok.....	Nov. 12-18.....	2	1	
Syria:				
Beirut.....	Nov. 6-12.....	2	1	
Turkey:				
Constantinople.....	Nov. 22-28.....	2		

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

**Reports Received from December 30, 1922, to January 19, 1923—Continued.**

**SMALLPOX.**

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	Dec. 1-10.....	1		
Arabia:				
Aden.....	Nov. 19-29.....	5	1	Nov. 26-Dec. 2, 1922: Cases, 2.
Brazil:				
Bahia.....	Nov. 5-11.....	1		
British East Africa:				
Kenya Colony—				
Tanganyika Territory..	Oct. 8-28.....	12	2	
Canada:				
Manitoba—				
Winnipeg.....	Dec. 10-23.....	12		
Ontario—				
Hamilton.....	Dec. 31-Jan. 6.....	2		
Niagara Falls.....	Dec. 3-16.....	5		
Ottawa.....	Dec. 10-23.....	6		
Toronto.....	Dec. 10-30.....	2		
Saskatchewan—				
Regina.....	Dec. 3-23.....	2		
Ceylon:				
Colombo.....	Nov. 12-25.....	5	2	
Chile:				
Concepcion.....	Oct. 30-Nov. 20.....		3	
Valparaiso.....	Oct. 2-Nov. 5.....		51	
China:				
Amoy.....	Nov. 5-18.....		2	Nov. 29, 1922: Present.
Antung.....	Nov. 13-Dec. 10.....	2		
Chungking.....	Nov. 5-11.....			Present.
Foochow.....	Nov. 12-25.....			Do.
Hongkong.....	Nov. 5-11.....		1	
Manchuria—				
Mukden.....	Nov. 19-Dec. 2.....			Do.
Nanking.....	Nov. 5-18.....			Do.
Chosen:				
Chemulpo.....	Oct. 1-31.....	4		
Seoul.....	do.....	5		
Czechoslovakia.....				Oct. 1-31, 1922: Cases, 3.
Dominican Republic:				
Puerto Plata.....	Dec. 14-20.....	1		
Santo Domingo.....	Dec. 3-16.....			Present.
France:				
Paris.....	Dec. 1-10.....	1		
Germany:				
Bremen.....	Dec. 3-9.....	1		
Great Britain:				
London.....	Nov. 26-Dec. 2.....	1		
Greece:				
Saloniki.....	Nov. 6-12.....		1	
India:				
Bombay.....	Nov. 5-18.....	2	2	
Calcutta.....	Nov. 12-Dec. 2.....	13	8	
Karachi.....	Nov. 26-Dec. 2.....	1		
Madras.....	Nov. 12-Dec. 2.....	22	11	
Rangoon.....	Nov. 5-25.....	5	2	
Java:				
East Java—				
Soerabaya.....	Nov. 5-11.....	4		
West Java—				
Batavia.....	Nov. 11-17.....	21		Province.
Mesopotamia—				
Bagdad.....	Oct. 1-31.....	285	153	
Mexico:				
Chihuahua.....	Dec. 4-17.....		4	
Mexico City.....	Nov. 12-18.....	5		Including municipalities in Federal District.
Nogales.....	Dec. 10-19.....		1	Nov. 1-30, 1922: Present in northern section.
Sonora, State				
Empalme.....	Nov. 1-30.....	4	1	
Peru:				
Callao.....	Nov. 1-15.....	2		
Lima (country).....	do.....	2	1	
Poland.....				Oct. 1-28, 1922: Cases, 48; deaths, 14.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from December 30, 1922, to January 19, 1923—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	Nov. 19-Dec. 9.....	52	6	
Oporto.....	Oct. 15-Dec. 2.....	19	8	
Russia:				
Esthonia.....	Oct. 1-31.....	9		
Lettonia.....	do.....	1		
Ukraine.....				Jan.-Sept., 1922: Cases, 8,744.
Spain:				
Corunna.....	Nov. 26-Dec. 2.....		1	
Seville.....	Nov. 27-Dec. 17.....		24	
Valencia.....	Nov. 26-Dec. 16.....	2		
Switzerland:				
Berne.....	Nov. 19-Dec. 9.....	39		
Zurich.....	Nov. 19-Dec. 2.....	14		
Syria:				
Aleppo.....	Nov. 19-Dec. 9.....	24	12	Dec. 3-9, 1922: Present.
Tunis:				
Tunis.....	Dec. 1-15.....	2	1	
Turkey:				
Constantinople.....	Nov. 19-Dec. 9.....	73	25	
Union of South Africa:				
Cape Province.....				Oct. 1-31, 1922: Cases, 17. Natives.
Transvaal.....				Oct. 1-31, 1922: Cases, 9.
Yugoslavia:				Oct. 1-31, 1922: Cases, 8
Serbia:				
Belgrade.....	Nov. 12-18.....	2	1	
On vessel:				
S. S. Huntress.....	Nov. 11.....	1		At Fremantle, Australia, from Cape Town, South Africa.

**TYPHUS FEVER.**

Algeria:				
Algiers.....	Nov. 11-20.....	1	1	
Brazil:				
Porto Alegre.....	Nov. 19-25.....	1		
Chile:				
Concepcion.....	Oct. 17-Nov. 20.....		4	
China:				
Antung.....	Nov. 13-Dec. 10.....	7		
Cuba:				
Matanzas.....	Dec. 25-31.....	1	1	
Czechoslovakia:				
Prague.....	Nov. 19-25.....	1		
Egypt:				
Alexandria.....	Nov. 19-25.....	1	1	
Cairo.....	Oct. 1-7.....	3	2	
Germany:				
Coblentz.....	Dec. 10-16.....	1		
Dresden.....	do.....	1		
Mexico:				
Mexico City.....	Nov. 12-18.....	15		Including municipalities in Federal district.
Palestine.....				Dec. 5-11, 1922: Cases, 2; in northern section.
Jaffa.....	Dec. 12-18.....	2		
Poland.....				Oct. 1-28, 1922: Cases, 515; deaths 39. Recurrent typhus: Cases, 725; deaths, 16.
Portugal:				
Oporto.....	Oct. 15-Dec. 2.....	1	1	
Russia:				
Esthonia.....	Oct. 1-31.....			July 30-Sept. 23, 1922: Cases, 23,803.
Lettonia.....	do.....	19		Recurrent typhus, cases, 5.
Ukraine.....	Jan.-Sept.....	307,329		Recurrent typhus, cases, 4.
Ukraine, Tartar Republic and Siberia.	June 1-30.....	35,926		Provisional figures.
Do.....	July 1-31.....	17,262		Do.
Do.....	Aug. 1-31.....	6,864		Do.
Do.....	Sept. 1-30.....	2,388		Do.
Spain:				
Barcelona.....	Nov. 30-Dec. 6.....		2	
Turkey:				
Constantinople.....	Nov. 27-Dec. 2.....	3		

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

**Reports Received from December 30, 1922, to January 19, 1923—Continued.**

**TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa.....				Oct. 1-31, 1922: Cases, 890; deaths, 78 (white—cases 4, deaths 1; colored—cases 886, deaths 77).
Cape Province.....				Oct. 1-31, 1922: Cases, 817; deaths, 60 (colored); white—2 cases.
Natal.....				Oct. 1-31, 1922: Cases, 45; deaths 13 (colored); white—1 case.
Orange Free State.....				Oct. 1-31, 1922: Cases, 19; deaths, 4 (colored); white—1 case, 1 death.
Transvaal.....				Oct. 1-31, 1922: Cases, 5 (colored).

**YELLOW FEVER.**

West Africa:				
Senegal—				
Saltpond.....				Reported present Dec. 21, 1922.
Warral.....				