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## MORTALITY IN CERTAIN STATES DURING 1931, WITH COMPARATIVE FIGURES FOR RECENT YEARS<sup>1</sup>

For several years the United States Public Health Service has secured from State health departments current mortality data and has published from time to time death rates from certain important causes from as many States as could furnish the information. The monthly data so collected are, of course, available for an annual summary also, and the tables here presented have been compiled to give a preliminary summary of mortality during 1931.

The rates are computed from current and generally preliminary reports furnished by State departments of health. Because of (a) some lack of uniformity in the method of classifying deaths according to cause, (b) some delayed death certificates, and (c) various other reasons, these preliminary rates can not be expected to agree in all instances with final rates published by the Bureau of the Census; the final figures are based on a complete review and retabulation of the individual death certificates from each State. The preliminary rates given in the accompanying tables are intended to serve as a current index of mortality until final figures are issued by the Bureau of the Census.

For purposes of comparison, the mortality rates for a few preceding years are given. These comparative rates for preceding years are taken from the same source as are the current reports. Although final figures are often available for these earlier years, the preliminary figures are retained as being more nearly comparable with current preliminary rates. Populations used throughout are estimates as of July 1 of each year based on the 1930 and 1920 censuses.

In Table 1 the death rates from all causes and from certain specific causes for groups of States have been brought together. The number of States included varies with the cause; but for a given cause the same States are included for each of the years from 1923 to 1931. Tables 2, 3, 4, and 5 show the States that are included in the summary for each disease presented in Table 1 and also the death rates from that cause in each of the States for each year. The death rates for

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<sup>1</sup> From the Office of Statistical Investigations, U. S. Public Health Service.

the groups are repeated in those tables, but it seemed worth while to bring together in Table 1 the rates for the different causes and years in as large a group of States as possible. In every case all States for which data were available for the whole period 1923-1931 were used in making the summary. In addition, the detailed tables (Tables 2, 3, 4, and 5) show rates for 1931 and such other years as could be secured from States for which data were not available for the whole period.

The rates for the majority of the diseases included in Table 1 are based on reports from 16 States, with an aggregate population of over 56,000,000, or about 45 per cent of the total population of the United States. Other causes in this table are based on fewer States, but the smallest population on which a rate is based is more than 34,000,000. While the rates in these States may not be the same as those for the total registration area, it is highly probable that the trend in these rates will be comparable with the trend in the rates in the total registration area.

The death rate per 1,000 for all causes in the group of 18 States was 10.9 in 1931, as compared with 11.3 in 1930 and 11.5 in 1927, the lowest rates for the preceding years included in the study. Considering individual States, out of the total of 25 States with data for both 1930 and 1931, only 2 States failed to show a decline, and in one of these the rate was the same for the two years.

In 16 States for which infant mortality figures were available, the infant death rate per 1,000 live births was 62 in 1931, as compared with 63 in 1930, and with 66 in 1927, the preceding low years. The 1931 figure is the lowest of any of the years included in this report. Of 22 States with data for both 1930 and 1931, 12 showed a decrease, 7 an increase, and in 3 States the rate was the same for the two years. Inasmuch as the death rate from malformations and diseases of early infancy changes very little from year to year, a line has been inserted in Table 1 to show the infant mortality from all causes except malformations and diseases of early infancy. Infant mortality from causes other than malformation and diseases of early infancy has declined 29 per cent since the year 1923, as against a decrease of 22 per cent for the same period in the infant mortality from all causes. Nearly one-half of the present infant mortality is due to malformations and diseases of early infancy, and this group of causes has decreased very little.

In the 7 States for which maternal mortality figures are available throughout the period 1923-1931, the death rate of mothers per 1,000 live births was 5.6 in 1931, as compared with 5.8 in 1930 and 6.2 in 1929. Of 22 States with data for both 1930 and 1931, 12 showed a decrease, 9 an increase, and 1 remained the same for the two years.

The typhoid fever death rate in the group of 16 States of 3.1 per 100,000 in 1931 represents a decrease from 3.5 in 1930, but is the same as in 1929. It is, however, less than in any year preceding 1929. Of 27 States with data for both 1930 and 1931, only 8 showed an increase, the other 19 all showing a decrease. Of 25 States with data available for 1931 and 1929, 11 increased, 1 remained the same in the two years, and 13 showed a decrease from 1929.

The rather sharp decline of diarrhea and enteritis under 2 years of age continued, the rate in 1931 being 13.7 per 100,000 total population, as compared with 17.9 in 1930 and 16.7 in 1929. The rate in 1931 was less than half of the rate in 1923. Of 25 States with data available for both 1930 and 1931, only 1 showed an increase, while 1 remained the same in the two years, and the other 23 States declined. Of 23 States with data for 1931 and 1929, 18 decreased in 1931 from the 1929 rate and 5 increased.

It is common knowledge that the diseases of children, such as measles, whooping cough, scarlet fever, and diphtheria, tend to occur in cycles, and therefore the death rate for any one year is a poor indicator of the average mortality from these diseases. The measles mortality in 1931 was slightly less than in 1930, but slightly greater than in 1929. Of 27 States with data for the last two years, 17 showed decreases and 10 increases in 1931 as compared with the preceding year. The death rate from whooping cough in 1931 was less than in any year included in the table. Of the 27 States with data for the past two years, 16 had a lower rate, 10 a higher rate in 1931 than in the preceding year, and the rate for one State was the same for both years. The death rate from scarlet fever was more than in 1930, but less than in 1929. Of the 27 States with data for the past two years, 13 showed an increase and 14 a decrease as compared with 1930. Diphtheria continued its almost uninterrupted decline, the rate of 3.7 in 1931 being only 30 per cent of the rate in 1923. However, of 27 States with data for 1930 and 1931, only 12 decreased, while 13 increased and 2 remained the same in the two years.

The death rate for poliomyelitis in the group of 11 States with complete data back to 1923 was the same in 1931 as in 1930, 1.4 per 100,000. This group of 11 States, however, does not include New York City or New Jersey, and the former was the center of the 1931 poliomyelitis epidemic. The death rate in New York City was 7.1 per 100,000 in 1931, as compared with 0.2 in 1930. In a group of 27 States with data for both years, the poliomyelitis death rate was 1.8 in 1931, as compared with 1.1 in 1930. Of these 27 States, 15 showed an increase, 11 a decrease, and 1 remained the same in 1931 as in 1930. Many of the western States had higher rates in 1930 than in 1931.

The meningococcus meningitis death rate in 1931 was less than in 1930 and 1929, but was higher than in any of the other years included.

The year 1929 marks the peak of a gradual rise in the death rate for this disease. Of 27 States with data available for both years, 20 decreased, 5 increased, and 2 remained the same in 1931 as in 1930.

The death rate for influenza in 1931 was 24.9 as compared with 19.0 for 1930. There was a very minor influenza epidemic in the early months of 1931, the cases apparently being very mild, since the death rate was only slightly in excess of the expected rate for that season of the year. The year 1930 was exceptionally free from influenza, and the rate for 1931 is low as compared with the rate of 54.2 for 1929, when a more severe epidemic occurred. The increased influenza death rate of 1931 was quite general; 24 of the 27 States with data for both years showed an increase in 1931 over 1930. The pneumonia death rate decreased slightly in 1931, the rate being 79.7 as compared with 82.7 in 1930. Of the 23 States with data for both years, 14 showed a decrease and 9 an increase in 1931. If influenza and pneumonia are added and considered together, the combined rate for 1931 (104.2) was slightly in excess of the rate for 1930 (101.7).

The death rate for tuberculosis continued an uninterrupted decline, the rate being 66.3 in 1931 as against 70.3 for the preceding year, and both of these rates are lower than those for any other years included. Since 1923 the rate has been reduced by more than 30 per cent. Of 27 States with data for 1930 and 1931, 23 showed a decrease and only 4 an increase in 1931 as compared with 1930.

The diabetes death rate in 1931 was higher than in any preceding year included. Although the trend appears to be upward, the increases have not been large, the rate for 1931 being 21.5 as compared with 20.4 in 1930. Of 24 States with data available for both years, 16 showed an increase, 7 showed a decrease, and 1 remained the same in 1931 as in 1930.

The death rate for cancer was practically the same in 1931 as in 1930. Since 1923 the rate has increased 12 per cent. Of 25 States with data available for both years, 15 showed an increase and 10 showed a decrease in 1931 as compared with 1930.

The death rate for diseases of the heart was practically the same in 1931 as in 1930, 226 per 100,000. Of 27 States with data for both years, 13 showed an increase, 12 a decrease, and in 2 States the rate was the same in 1931 as in 1930.

The death rate for nephritis was less in 1931 than in any preceding year included. Of 24 States with data available for the past two years, 19 showed a decrease and only 5 an increase in 1931 as compared with 1930. During the period 1923-1931 the nephritis death rates fluctuated considerably, but the 1931 rate is 2 per cent below that of 1924, the preceding low mark, and nearly 11 per cent below the high rate of 1926.

The death rate from cerebral hemorrhage, apoplexy, was less in 1931 than in any of the other years included. The decline, however, has been small. Of 21 States with data available for the last two years, 13 showed a decrease and 8 an increase in 1931 as compared with 1930.

TABLE 1.—*Summary of mortality from all causes in a group of States, 1923–1931*

Diseases (numbers in parentheses are from the International List of Causes of Death, fourth revision, 1929)	1931	1930	1929	1928	1927	1926	1925	1924	1923	Number of States included <sup>1</sup>	Estimated population as of July 1, 1931 (in thousands)
Death rate per 1,000 population											
All causes.....	10.9	11.3	12.0	12.1	11.5	12.4	12.0	11.9	12.5	18	63,321
Deaths under 1 year per 1,000 live births											
Total infant mortality. All except malformations and early infancy.....	62	63	67	69	66	74	74	72	79	16	58,458
	32	34	36	37	34	40	41	42	45	8	29,961
Deaths of mothers per 1,000 live births											
Maternal mortality....	6.1	5.8	6.2	6.4	6.4	6.6	6.7	6.5	7.1	7	34,837
Death rate per 100,000 population											
Typhoid fever (1,2).....	3.1	3.5	3.1	3.6	4.5	5.9	7.3	6.0	6.2	16	56,443
Measles (7).....	2.8	3.0	2.5	4.0	3.2	8.2	2.4	6.1	11.7	16	56,443
Scarlet fever (8).....	2.0	1.7	2.1	1.8	2.0	2.3	2.7	3.2	3.9	16	56,443
Whooping cough (9).....	3.4	4.1	5.9	5.1	6.1	8.8	6.8	7.9	9.4	16	56,443
Diphtheria (10).....	3.7	4.2	5.6	6.6	7.2	7.1	7.6	9.2	12.3	16	56,443
Influenza (11).....	24.9	19.0	54.2	43.0	22.6	41.0	29.4	10.4	42.5	16	56,443
Acute anterior poliomyelitis (16).....	1.4	1.4	.7	1.2	1.8	.8	1.6	.9	.8	11	42,586
Meningococcus meningitis (18).....	2.0	2.5	3.0	1.6	1.1	1.1	1.0	.9	1.2	12	45,297
Tuberculosis, all forms (23-32).....	66.3	70.3	75.4	79.5	80.6	87.8	88.0	91.5	95.2	17	58,337
Cancer (45-53).....	102.1	102.0	101.1	101.0	98.4	97.5	94.9	92.4	92.4	17	58,337
Diabetes mellitus (59).....	21.5	20.4	19.9	20.3	18.3	18.6	17.1	16.7	17.9	10	39,157
Cerebral hemorrhage, apoplexy (82, a, b).....	91.5	93.3	96.7	98.6	93.7	95.2	98.5	101.3	100.0	9	34,033
Heart diseases (90-95).....	225.5	226.4	231.1	228.8	211.3	211.8	196.4	185.7	181.2	11	42,435
Pneumonia, all forms (107-109).....	79.3	82.7	93.6	98.5	79.5	102.3	99.0	101.7	114.5	16	55,901
Diarrhea and enteritis under 2 years (119).....	13.7	17.9	16.7	18.4	19.5	25.5	31.7	27.8	33.2	15	54,007
Nephritis, all forms (130-132).....	92.2	98.1	97.9	101.8	98.4	103.5	96.5	94.2	95.0	12	46,590

<sup>1</sup> See Tables 2, 3, 4, and 5 for names of States included. The District of Columbia is counted as a State in this column.

TABLE 2.—Mortality from all causes in certain States and in a group of insured wage earners, 1923-1931

State	Death rate per 1,000 population (all causes)								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
States with complete data (17 States and District of Columbia), total	10.9	11.3	12.0	12.1	11.5	12.4	12.0	11.9	12.5
Alabama	10.6	11.5	12.4	12.0	10.3	11.7	11.6	11.5	11.0
California	11.3	11.6	11.9	12.6	12.1	12.1	12.2	12.9	13.0
Connecticut	10.3	10.5	11.3	11.3	10.8	12.0	11.8	11.5	12.2
District of Columbia	15.8	15.2	15.4	15.1	14.8	15.8	15.1	14.3	15.6
Indiana	11.3	11.6	12.2	12.2	11.5	12.9	12.5	12.1	12.8
Kansas	10.0	10.4	10.4	11.2	10.0	10.4	10.2	9.8	10.9
Louisiana	10.9	11.8	11.8	12.2	11.9	12.2	12.7	12.9	11.7
Maryland	13.2	13.2	13.5	13.6	13.3	14.9	14.2	13.7	14.7
Michigan	9.8	10.6	11.8	11.8	11.4	12.7	11.8	12.2	12.7
Minnesota	9.6	9.7	9.9	10.1	9.8	10.3	10.2	10.0	10.4
Nebraska	9.1	9.4	9.6	10.0	9.1	9.4	9.3	9.3	9.5
New Jersey	10.6	10.7	11.5	11.9	11.2	12.2	11.8	11.9	12.2
New York (exclusive of New York City)	12.5	12.8	13.7	13.1	12.8	14.0	13.4	13.3	14.1
Ohio	11.1	11.4	12.5	12.4	11.5	12.5	11.8	11.4	12.4
Pennsylvania	11.5	11.6	12.3	12.6	11.9	13.0	12.6	12.4	13.4
Tennessee	10.7	11.4	12.2	12.2	11.4	12.5	11.2	11.4	11.8
Virginia	11.6	11.7	12.0	12.6	12.0	13.0	12.4	12.4	13.1
Wisconsin	10.1	10.3	10.7	10.5	10.3	10.6	10.3	10.1	10.6
Other States:									
Georgia	11.1	11.8	11.8						
Hawaii	9.8	10.4	12.2	11.8					
Idaho	9.6	9.7							
Iowa	10.3	10.6	10.4	10.4					
Mississippi	9.9	10.8	11.6						
Montana	9.7	9.8							
North Carolina	10.2	11.4	11.9	11.7					
West Virginia	10.0	10.4	10.6						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	8.5	8.4	8.9	8.7	8.4	8.9	8.5	8.5	9.0

TABLE 3.—*Infant mortality in certain States, 1923-1931*

State	Deaths under 1 year per 1,000 live births									
	1931	1930	1929	1928	1927	1926	1925	1924	1923	
Total infant mortality										
States with complete data: (15 States and District of Columbia), total	62	63	67	69	66	74	74	72	72	70
Alabama	65	73	74	74	65	68	73	79	77	77
California	57	59	63	62	63	63	69	67	72	72
Connecticut	56	60	68	62	59	72	73	69	70	70
District of Columbia	71	70	69	65	66	85	87	76	91	91
Indiana	59	58	66	64	60	72	68	66	71	71
Louisiana	68	80	76	81	77	74	89	94	82	82
Maryland	80	76	79	79	81	87	90	87	94	94
Michigan	58	63	67	69	68	78	78	72	80	80
Minnesota	47	47	48	54	52	57	60	56	61	61
Nebraska	47	49	52	53	51	59	58	55	61	61
New Jersey	57	57	61	65	61	72	69	66	68	68
New York (exclusive of New York City)	60	60	63	65	63	74	71	71	79	79
Ohio	59	58	68	66	62	76	69	67	90	90
Pennsylvania	65	65	71	72	69	82	82	78	76	76
Tennessee	70	71	76	78	72	79	74	78	76	76
Virginia	72	71	74	76	75	84	80	76	83	83
Other States:										
Georgia	60	78								
Hawaii	75	82	101							
Idaho	59	51								
Iowa	51	56	62	64						
Kansas	48	52	57	59						
Montana	56									
North Carolina	73	77								
Wisconsin	53	56	61	61						

TABLE 3.—*Infant mortality in certain States, 1923–1931—Continued*

State	Deaths under 1 year per 1,000 live births								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
	All except malformations and early infancy								
States with complete data (7 States and District of Columbia), total.....	32	34	36	37	34	40	41	42	45
Alabama.....	40	45	46	48	36	40	41	44	38
California.....	26	29	32	33	31	31	35	35	39
District of Columbia.....	35	36	34	28	27	42	43	35	45
Louisiana.....	40	49	48	50	46	45	54	55	51
Maryland.....	45	38	46	42	43	49	48	46	54
Nebraska.....	19	19	23	21	21	25	25	23	27
New York (exclusive of New York City).....	23	24	27	27	26	33	33	32	38
Pennsylvania.....	34	36	38	38	35	47	46	47	53
Other States:									
Idaho.....	27	24	—	—	—	—	—	—	—
Indiana.....	28	26	—	—	—	—	—	—	—
Iowa.....	22	22	21	20	—	—	—	—	—
Kansas.....	19	22	26	29	—	—	—	—	—
Michigan.....	22	27	31	—	—	—	—	—	—
Minnesota.....	17	17	18	—	—	—	—	—	—
Ohio.....	26	25	—	—	—	—	—	—	—
Tennessee.....	44	44	53	—	—	—	—	—	—

TABLE 4.—*Maternal mortality in certain States, 1923–1931*

	1931	1930	1929	1928	1927	1926	1925	1924	1923
States with complete data (7 States), total.....	5.6	5.8	6.2	6.4	6.4	6.6	6.7	6.5	7.1
California.....	6.3	5.3	5.2	5.6	5.8	5.5	6.0	5.9	6.7
Nebraska.....	5.1	5.3	5.4	6.0	5.9	6.6	5.7	6.3	5.8
New York (exclusive of New York City).....	6.0	5.6	5.5	6.4	6.3	6.1	6.1	6.0	6.3
Ohio.....	6.0	5.5	6.6	6.2	6.2	6.8	6.6	6.3	7.1
Pennsylvania.....	6.0	5.7	6.2	5.8	6.1	6.1	6.2	6.1	6.3
Tennessee.....	6.8	7.9	8.1	8.2	6.8	6.8	7.8	7.5	8.1
Virginia.....	7.4	6.6	6.5	7.5	6.3	8.0	6.9	6.4	7.8
Other States:									
Alabama.....	7.8	8.9	9.1	8.2	7.0	—	—	—	—
District of Columbia.....	6.1	9.1	6.1	—	—	—	—	—	—
Georgia.....	10.0	10.6	—	—	—	—	—	—	—
Idaho.....	2.6	4.4	—	—	—	—	—	—	—
Indiana.....	5.9	5.8	7.0	6.1	6.5	—	—	—	—
Iowa.....	4.1	7.0	5.4	5.3	—	—	—	—	—
Kansas.....	5.8	7.0	6.1	7.4	—	—	—	—	—
Louisiana.....	8.9	9.8	10.3	11.1	—	—	—	—	—
Maryland.....	6.0	5.3	5.6	—	—	—	—	—	—
Michigan.....	5.9	5.9	6.1	—	—	—	—	—	—
Minnesota.....	4.6	4.8	3.9	—	—	—	—	—	—
Montana.....	7.0	—	—	—	—	—	—	—	—
New Jersey.....	5.9	5.7	5.3	—	—	—	—	—	—
North Carolina.....	7.8	7.6	—	—	—	—	—	—	—
West Virginia.....	5.2	5.7	5.3	—	—	—	—	—	—
Wisconsin.....	4.3	4.8	—	—	—	—	—	—	—

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923-1931

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
TYPHOID FEVER (1, 2)									
States with complete data (15 States and District of Columbia), total	3.1	3.5	3.1	3.6	4.5	5.9	7.3	6.0	6.2
Alabama	7.0	7.9	7.5	9.4	12.4	15.1	16.8	14.2	14.7
California	1.6	1.7	1.7	2.0	2.1	2.4	2.5	5.2	3.6
Connecticut	1.0	.9	.9	.6	1.1	1.9	2.6	2.6	2.6
District of Columbia	3.9	3.3	2.7	3.1	2.1	2.6	5.4	4.1	5.9
Indiana	2.8	3.7	3.5	4.4	4.8	6.5	8.0	7.0	6.8
Louisiana	14.5	11.7	10.4	12.3	14.0	16.8	33.0	21.4	14.0
Maryland	5.4	6.4	4.3	5.3	5.9	7.7	7.4	6.4	6.6
Minnesota	6	1.0	.9	.5	1.1	1.1	1.9	1.5	2.5
Nebraska	1.7	1.6	1.8	1.8	2.7	1.8	2.7	2.2	3.1
New Jersey	1.0	1.1	1.4	1.7	1.3	2.6	3.1	2.7	3.0
New York (exclusive of New York City)	1.1	1.6	1.6	2.0	2.1	3.4	3.8	3.5	3.4
Ohio	2.4	3.3	2.2	2.1	2.7	4.5	5.3	3.6	5.0
Pennsylvania	2.1	2.6	2.1	2.0	2.8	3.8	4.9	3.9	5.0
Tennessee	10.7	12.2	11.9	13.5	20.5	24.6	25.8	23.8	21.3
Virginia	7.3	5.8	4.4	6.1	7.3	11.2	12.8	8.7	10.8
Wisconsin	.7	.9	1.4	.8	1.4	1.5	2.0	1.0	2.2
Other States:									
Georgia	16.7	16.4	11.6						
Hawaii	2.6	2.4	3.9	6.3					
Idaho	3.6	4.7							
Illinois	1.5	1.9	1.4	2.2	2.4	3.2	4.6		
Iowa	1.4	1.6	2.3	2.3					
Kansas	2.2	3.0	2.9	2.4					
Michigan	1.4	1.8	1.7						
Mississippi	9.5	10.2	8.8						
Montana	2.2	3.2							
North Carolina	5.1	4.4	5.5	6.0					
South Carolina	16.6	16.9	14.4	19.5	23.7	28.0	26.2		
West Virginia	12.6	12.1	11.5						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	2.4	2.4	2.4	2.7	4.7	4.2	4.6	4.4	5.2
MEASLES (7)									
States with complete data (15 States and District of Columbia), total	2.8	3.0	2.5	4.0	3.2	8.2	2.4	6.1	11.7
Alabama	6.4	3.1	2.4	8.7	4.5	5.0	.8	16.1	12.3
California	1.9	5.2	.3	5	6.2	2.1	.6	7.1	7.2
Connecticut	2.1	.3	3.0	3.8	1.3	12.8	2.6	3.2	11.0
District of Columbia	2.4	.2	(1)	3.6	(1)	7.3	.9	.7	7.5
Indiana	4.5	1.9	3.7	2.0	1.7	12.0	1.9	5.7	8.5
Louisiana	.6	4.7	2.5	8.6	12.5	.4	.4	23.0	6.2
Maryland	5.9	.4	1.4	6.6	1.3	14.1	1.5	3.3	9.7
Minnesota	.3	3.3	3.2	.5	2.3	7.1	.6	5.6	11.5
Nebraska	.2	6.2	2.4	.7	5.2	1.6	(1)	7.1	3.0
New Jersey	2.4	3.2	.9	6.4	.6	11.0	3.3	5.3	10.2
New York (exclusive of New York City)	1.7	1.4	2.7	3.5	2.6	4.6	3.0	4.5	8.1
Ohio	2.1	2.8	3.5	2.9	.6	12.5	1.3	2.6	9.6
Pennsylvania	4.2	2.3	3.8	5.2	2.7	11.4	5.5	3.2	18.1
Tennessee	3.8	4.9	1.0	7.8	5.4	10.8	2.0	10.4	19.6
Virginia	3.2	3.9	1.6	6.4	4.6	4.2	3.2	9.2	22.8
Wisconsin	1.4	3.3	2.7	.5	3.4	5.1	2.2	2.7	7.1
Other States:									
Georgia	2.1	4.4	1.0						
Hawaii	10.2	4.3	5.0	2.3					
Idaho	1.8	2.0							
Illinois	4.2	1.0	3.6	1.1	4.0	4.8	3.1		
Iowa	.1	8.1	1.4	.5					
Kansas	.4	4.2	2.4	1.0					
Michigan	.6	4.7	3.1						
Mississippi	.4	1.4	4.3						
Montana	.4	2.2							
North Carolina	3.2	.1	.6	16.6					
South Carolina	2.2	.5	1.1	16.1	3.8	.8	.1		
West Virginia	2.3	4.9	4.5						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	2.6	2.3	2.4	4.2	8.4	8.0	2.5	5.7	8.4

<sup>1</sup> No deaths.

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923-1931—Continued

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
SOARLET FEVER (8)									
States with complete data (15 States and District of Columbia), total	2.0	1.7	2.1	1.8	2.0	2.3	2.7	3.2	3.9
Alabama	1.1	1.4	1.4	.4	.9	.6	.8	.6	.8
California	.9	1.2	1.7	1.0	1.2	.9	1.4	2.3	2.8
Connecticut	.7	1.6	.0	1.3	1.4	2.3	3.0	3.9	3.6
District of Columbia	1.0	2.3	2.3	1.5	1.7	1.5	1.1	1.7	2.4
Indiana	3.4	2.1	3.2	2.1	2.5	3.0	3.3	2.8	2.8
Louisiana	.7	.6	.6	.5	.6	.6	.5	.4	.3
Maryland	1.9	2.1	2.3	.8	1.1	1.3	1.1	2.8	3.3
Minnesota	.9	1.4	2.6	2.4	3.7	6.2	6.3	8.4	9.6
Nebraska	1.5	2.2	3.8	3.0	1.3	1.9	2.4	2.7	3.8
New Jersey	2.0	1.5	1.1	1.6	2.5	2.1	1.8	1.8	2.7
New York (exclusive of New York City)	2.3	1.5	2.0	2.0	1.9	2.1	2.1	3.4	3.3
Ohio	3.3	2.6	2.2	2.0	2.4	2.9	3.9	3.8	5.3
Pennsylvania	2.3	1.9	2.5	2.6	2.8	2.9	3.7	3.8	4.4
Tennessee	2.4	1.6	2.4	1.6	1.8	1.6	1.3	1.3	1.6
Virginia	1.4	1.1	1.5	1.0	1.3	1.3	1.7	1.4	1.9
Wisconsin	2.1	3.0	2.5	2.5	2.1	2.7	3.7	7.4	8.7
Other States:									
Georgia	1.5	1.8	1.3						
Hawaii	(1)	.8	(1)	1.1					
Idaho	2.2	2.0							
Illinois	4.5	3.9	3.9	2.1	2.3	3.3	3.8		
Iowa	1.6	2.5	2.2	2.2					
Kansas	1.2	2.4	3.3	2.7					
Michigan	2.3	2.7	3.0						
Mississippi	.5	.6	.3						
Montana	1.9	2.8							
North Carolina	2.0	1.2	1.7	1.2					
South Carolina	1.0	.7	.9	.5	.2	.2	.3		
West Virginia	1.7	1.9	1.5						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	3.2	2.5	2.7	2.6	3.0	3.4	3.4	4.3	4.4
WHOOPING COUGH (9)									
States with complete data (15 States and District of Columbia), total	3.4	4.1	5.9	5.1	6.1	8.8	6.8	7.9	9.4
Alabama	3.4	9.5	9.8	7.7	13.6	11.8	9.0	15.9	13.3
California	2.4	3.5	5.0	6.4	3.8	3.4	10.1	3.7	7.7
Connecticut	2.5	2.0	2.6	6.4	2.6	6.2	7.5	5.3	9.1
District of Columbia	5.7	2.7	5.0	4.6	3.6	8.3	4.5	2.8	7.5
Indiana	4.3	3.0	5.4	4.3	5.6	12.4	5.5	9.6	8.6
Louisiana	5.4	5.9	5.4	8.8	10.4	9.0	10.9	7.2	14.3
Maryland	7.6	4.5	7.9	7.4	12.1	11.7	11.3	9.1	17.2
Minnesota	2.1	2.6	4.5	3.1	3.0	7.0	3.9	5.4	6.2
Nebraska	4.0	2.6	3.6	3.2	3.7	7.6	5.6	2.1	5.7
New Jersey	3.3	2.2	4.7	4.7	4.6	4.6	6.8	7.3	6.4
New York (exclusive of New York City)	2.7	4.0	3.8	3.9	3.7	7.2	3.4	5.7	6.1
Ohio	2.4	3.0	8.0	3.8	4.2	10.3	5.8	7.5	8.3
Pennsylvania	3.1	3.9	6.0	5.7	4.8	10.0	7.0	7.5	11.0
Tennessee	6.3	6.3	7.4	5.2	13.3	14.6	6.6	11.8	11.0
Virginia	6.2	10.8	10.9	7.7	18.9	13.4	10.7	21.8	17.1
Wisconsin	1.9	3.3	3.8	2.3	2.6	5.6	4.1	4.6	6.0
Other States:									
Georgia	3.8	9.0	9.4						
Hawaii	.3	3.5	27.9	4.3					
Idaho	6.3	4.3							
Illinois	2.7	2.1	3.4	3.7	4.2	5.1	4.4		
Iowa	2.4	3.7	4.1	3.2					
Kansas	1.3	3.5	3.9	5.0					
Michigan	3.7	3.6	5.4						
Mississippi	3.4	6.9	9.4						
Montana	8.9	3.0							
North Carolina	5.7	8.5	8.3	6.2					
South Carolina	5.3	10.8	12.7	10.0	13.7	5.2	7.7		
West Virginia	7.4	12.0	12.8						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	1.7	1.9	3.0	2.7	3.1	5.0	3.6	3.5	4.8

<sup>1</sup> No deaths.

TABLE 5.—*Mortality from certain causes in several States and in a group of wage earners, 1923–1931—Continued*

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
DIPHTHERIA (10)									
States with complete data (15 States and District of Columbia), total	3.7	4.2	5.6	6.6	7.2	7.1	7.6	9.2	12.3
Alabama	7.8	7.1	9.6	9.2	9.7	8.2	6.8	6.0	8.4
California	2.9	3.4	3.4	6.0	5.2	6.0	5.7	15.7	15.3
Connecticut	8.8	2.0	3.9	5.6	6.1	5.4	8.4	11.4	12.8
District of Columbia	7.1	3.7	7.0	9.4	5.1	6.2	8.0	6.5	9.2
Indiana	4.1	4.1	4.7	5.7	7.0	5.8	5.5	7.9	13.9
Louisiana	6.4	5.0	6.6	7.0	9.9	7.3	6.5	6.0	7.7
Maryland	4.0	3.4	4.5	6.6	7.5	6.3	5.6	7.7	10.1
Minnesota	1.4	1.2	2.6	2.8	8.3	6.2	9.2	8.8	8.6
Nebraska	3.5	3.2	3.5	4.0	3.4	2.7	5.7	8.0	10.4
New Jersey	2.9	8.2	11.2	11.8	10.8	8.5	9.1	9.6	13.8
New York (exclusive of New York City)	1.6	2.5	3.4	4.0	4.8	4.6	6.4	7.1	9.0
Ohio	2.8	2.8	3.4	5.7	7.9	7.6	6.2	6.8	11.3
Pennsylvania	3.6	5.2	7.2	8.9	9.0	8.6	10.6	11.6	15.7
Tennessee	9.3	6.6	8.4	8.2	7.5	11.1	7.5	8.5	10.6
Virginia	8.5	6.1	7.8	7.7	6.4	9.6	10.0	9.2	14.4
Wisconsin	1.8	2.4	2.8	3.4	4.5	5.6	6.2	7.4	13.1
Other States:									
Georgia	5.0	4.5	6.0						
Hawaii	5.7	11.3	8.9	16.9					
Idaho	2.5	3.1							
Illinois	4.7	7.1	9.9	8.7	8.9	5.7	5.8		
Iowa	1.7	1.8	1.3	2.7					
Kansas	3.7	3.6	3.6	3.3					
Michigan	3.5	6.2	10.5						
Mississippi	9.9	6.8	7.1						
Montana	1.7	.7							
North Carolina	7.3	7.9	11.0	10.6					
South Carolina	4.9	7.8	8.6	10.1	8.7	8.9	6.7		
West Virginia	9.3	6.2	7.4						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	4.3	5.7	8.6	9.5	10.2	9.5	10.2	12.7	15.5
INFLUENZA (11)									
States with complete data (15 States and District of Columbia), total	24.9	19.0	54.2	43.0	22.6	41.0	29.4	19.4	42.5
Alabama	40.3	35.5	119.8	71.0	30.2	68.5	46.0	26.4	49.4
California	13.6	9.1	20.0	40.2	13.7	23.5	15.8	11.2	20.5
Connecticut	17.1	13.4	38.8	22.6	18.8	36.7	27.1	19.5	38.6
District of Columbia	18.1	8.2	20.5	17.6	19.6	27.9	13.6	7.2	35.0
Indiana	33.3	19.7	59.2	59.6	25.4	50.3	43.8	23.0	56.1
Louisiana	42.1	39.9	79.1	62.0	29.6	64.9	49.4	31.2	41.2
Maryland	20.6	10.3	42.5	19.1	21.7	33.4	20.6	14.5	34.7
Minnesota	21.8	15.9	39.6	42.6	19.1	29.0	24.0	9.0	24.9
Nebraska	21.8	17.7	45.9	63.8	26.8	41.7	41.2	19.7	49.0
New Jersey	13.6	8.9	25.2	15.7	11.1	19.6	11.1	15.5	21.8
New York (exclusive of New York City)	13.2	10.4	38.4	18.2	13.8	30.0	14.8	11.1	28.3
Ohio	28.8	19.4	59.6	51.7	23.3	40.4	28.6	13.9	42.1
Pennsylvania	28.1	20.4	57.3	44.7	25.6	45.5	30.1	26.1	45.0
Tennessee	37.0	31.3	106.3	67.9	32.3	70.6	52.5	38.8	93.1
Virginia	47.2	29.4	91.9	47.2	45.9	63.8	44.5	34.2	85.1
Wisconsin	18.1	30.7	42.3	44.3	20.9	36.4	32.4	15.4	39.4
Other States:									
Georgia	44.1	32.2	86.3						
Hawaii	11.0	10.5	17.6	24.4					
Idaho	9.2	11.2							
Illinois	20.3	11.7	34.5						
Iowa	25.7	26.9	51.5	55.3					
Kansas	30.0	28.3	51.3	81.2					
Michigan	16.5	11.9	37.3						
Mississippi	37.5	29.3	105.6						
Montana	32.7	22.9							
North Carolina	33.4	24.4	78.2	45.2	19.4	33.9	22.9		
South Carolina	65.9	49.7	80.4	76.6					
West Virginia	33.8	27.8	91.2						
Industrial policy holders, Metropolitan Life Insurance Co., ages 1 and over	19.3	13.2	37.7	22.0	15.7	27.4	19.4	14.2	30.1

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923–1931—Continued

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
ACUTE ANTERIOR POLIOMYELITIS (16)									
States with complete data (10 States and District of Columbia), total	1.4	1.4	0.7	1.2	1.8	0.8	1.6	0.9	0.8
California	.8	2.8	.9	1.5	4.4	.6	3.1	.8	.8
Connecticut	5.9	1.2	.5	.8	1.0	.4	1.3	1.6	.7
District of Columbia	.8	.6	.8	1.0	1.3	1.5	.0	.2	.2
Indiana	.6	.7	.3	.2	1.4	.6	.9	.5	.8
Louisiana	.9	2.3	.6	1.0	2.0	.7	.8	.6	.5
Maryland	.7	4.4	.2	1.6	4	.8	.9	1.2	.5
Minnesota	2.4	1.6	.4	2.3	1.4	.6	5.8	1.3	.7
New York (exclusive of New York City)	2.9	1.9	1.4	1.7	1.0	2.0	2.0	1.8	1.1
Ohio	.8	1.6	.6	1.1	2.5	.7	1.0	.6	.5
Pennsylvania	1.0	.5	.5	.8	1.1	.5	.7	.5	.7
Virginia	.6	.8	1.3	1.3	1.5	1.1	1.2	1.1	1.2
Other States:									
Alabama	.9	.8	1.0	.8	.9	1.0	.9		
Georgia	1.2	1.1							
Hawaii	.8	(1)	1.1	.3					
Idaho	.7	1.3							
Illinois	1.3	.7	.2						
Iowa	1.1	1.7	.9	.7					
Kansas	.6	3.6	.5	.5					
Michigan	2.2	.8	1.0						
Mississippi	.4	.5	.6						
Montana	2.8	1.1							
Nebraska	.9	3.4	.7						
New Jersey	3.5	.4	.4						
North Carolina	.6	.4	.6	.6					
South Carolina	.9	.6	.6	1.0	1.4	.9	2.2		
Tennessee	.9	1.0	1.2	1.6	1.3				
West Virginia	1.4	.6	.9						
Wisconsin	1.6	1.0	.4	.5					
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	2.6	1.1	.6	1.2	2.0	.7	1.4	1.0	.7
MENINGOCOCCUS MENINGITIS (18)									
States with complete data (11 States and District of Columbia), total	2.0	2.5	3.0	1.6	1.1	1.1	1.0	0.9	1.2
California	2.5	2.8	6.9	2.2	2.0	2.1	.8	.9	1.1
Connecticut	.7	.9	1.4	1.1	.6	.7	.8	1.6	3.1
District of Columbia	5.7	2.0	2.9	1.0	.6	.9	.6	(1)	1.3
Indiana	5.5	8.3	2.7	.2	.3	.3	.6	.4	.4
Louisiana	2.3	3.6	2.7	.8	1.2	1.1	.5	.6	.9
Minnesota	1.6	1.4	1.8	1.8	2.3	.6	.7	.5	.8
Nebraska	1.6	2.5	2.6	1.8	.7	1.3	1.0	.5	.8
New York (exclusive of New York City)	1.0	1.2	1.3	.7	.4	.4	1.0	.5	.6
Ohio	1.5	1.8	2.7	2.0	.7	.5	.8	.6	1.0
Pennsylvania	1.9	2.2	2.8	1.6	.7	.9	.9	.8	.8
Virginia	1.8	2.3	1.5	1.5	1.0	.9	1.1	1.4	.9
Wisconsin	1.3	2.0	3.7	3.3	4.1	4.1	3.8	4.1	4.6
Other States:									
Alabama	2.8	1.5	1.0	.7					
Georgia	1.8	3.0							
Hawaii	2.3	4.3	22.1	4.0					
Idaho	6.9	6.9							
Illinois	3.2	2.4	3.3	3.0	1.8	.8	.8		
Iowa	2.6	3.3	1.6	.9					
Kansas	1.3	2.8	2.8	1.1					
Maryland	1.8	1.3	1.5						
Michigan	2.4	7.5	17.9						
Mississippi	1.5	6.9	.8						
Montana	2.2	4.1							
New Jersey	1.8	1.8	2.7						
North Carolina	.6	.8	.5	.5					
South Carolina	2.1	4.1	3.0	1.6	1.7	2.2	1.9		
Tennessee	4.3	9.6	2.2	.9	.4				
West Virginia	1.0	1.1	.8						

<sup>1</sup> No deaths.

TABLE 5.—*Mortality from certain causes in several States and in a group of wage earners, 1923–1931—Continued*

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
<b>TUBERCULOSIS, ALL FORMS (23-32)</b>									
States with complete data (16 States and District of Columbia), total	66.3	70.3	75.4	79.5	80.6	87.8	88.0	91.5	95.2
Alabama	85.7	86.0	85.7	89.6	86.5	93.7	99.2	96.2	98.2
California	88.9	98.3	106.3	114.8	117.6	119.4	127.3	136.5	136.5
Connecticut	82.1	58.8	63.5	69.4	68.6	80.1	76.8	82.8	90.5
District of Columbia	119.7	116.8	116.6	120.6	127.9	123.9	118.5	121.9	127.2
Indiana	57.6	63.6	70.2	70.0	70.5	82.0	80.9	82.4	91.7
Kansas	37.0	36.8	37.8	40.0	34.9	40.6	42.6	41.9	41.3
Louisiana	81.5	84.1	86.3	87.7	93.7	101.7	104.4	109.7	108.6
Maryland	95.7	98.9	104.6	105.8	102.7	115.1	121.9	120.8	124.5
Minnesota	40.0	46.3	54.5	66.0	62.2	67.4	64.1	69.3	76.8
Nebraska	24.6	24.5	29.9	26.3	30.0	33.1	33.3	35.8	34.8
New Jersey	65.1	69.3	73.1	72.9	74.5	83.3	82.5	86.2	91.2
New York (exclusive of New York City)	62.9	68.3	72.4	76.2	77.7	85.1	89.0	91.8	96.0
Ohio	62.0	63.0	69.8	73.2	73.5	80.5	77.3	82.7	86.6
Pennsylvania	56.4	61.5	66.1	71.4	72.6	79.8	79.3	82.6	86.6
Tennessee	107.2	115.7	120.3	129.6	129.1	144.6	135.1	144.9	148.7
Virginia	87.0	85.0	91.4	103.9	105.8	111.5	114.6	115.3	123.6
Wisconsin	48.1	50.5	53.3	56.5	60.7	66.2	62.2	64.0	66.5
Other States:									
Georgia	72.9	73.4	74.0	—	—	—	—	—	—
Hawaii	98.2	102.3	110.4	124.0	—	—	—	—	—
Idaho	29.8	32.9	—	—	—	—	—	—	—
Illinois	59.1	59.6	68.8	73.4	76.3	76.4	78.1	—	—
Iowa	28.5	33.1	32.6	34.9	—	—	—	—	—
Michigan	53.3	59.8	66.1	—	—	—	—	—	—
Mississippi	72.1	78.4	74.2	—	—	—	—	—	—
Montana	61.3	62.3	—	—	—	—	—	—	—
North Carolina	69.4	74.7	83.3	78.1	—	—	—	—	—
South Carolina	70.7	76.5	78.1	85.4	88.9	94.7	94.6	—	—
West Virginia	59.8	65.4	68.0	—	—	—	—	—	—
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	76.7	81.3	87.3	90.6	93.8	99.5	98.2	104.4	110.8
<b>CANCER (45-53)</b>									
States with complete data (16 States and District of Columbia), total	102.1	102.0	101.1	101.0	98.4	97.5	94.9	92.4	92.4
Alabama	53.6	53.8	51.3	50.3	50.3	45.9	44.5	45.3	42.5
California	124.2	125.7	118.3	121.0	116.9	116.2	113.9	115.9	121.4
Connecticut	112.9	114.5	116.1	111.7	109.6	109.2	107.6	105.8	99.5
District of Columbia	134.7	136.7	131.8	127.2	127.7	122.8	119.6	116.1	106.3
Indiana	100.6	99.9	99.8	100.5	102.7	103.5	98.7	95.8	97.5
Kansas	97.0	96.4	92.6	99.1	99.4	91.0	83.6	76.5	79.7
Louisiana	68.2	68.0	64.4	64.7	65.0	63.0	60.8	60.0	57.7
Maryland	111.6	111.5	109.8	115.7	101.1	108.7	104.8	103.8	108.4
Minnesota	121.3	119.9	113.9	114.1	108.7	105.7	109.7	103.7	101.9
Nebraska	98.5	100.9	94.5	96.5	92.6	88.8	89.2	80.7	78.9
New Jersey	113.4	107.1	109.3	105.1	103.8	102.8	103.0	97.2	92.2
New York (exclusive of New York City)	131.6	131.5	130.3	128.3	125.5	122.4	121.6	120.5	117.7
Ohio	100.8	105.2	104.6	106.1	101.8	102.0	98.1	96.4	94.1
Pennsylvania	98.9	100.0	103.0	102.4	98.8	98.6	94.6	92.4	91.4
Tennessee	57.1	58.2	58.0	58.3	57.3	57.7	51.4	51.3	48.5
Virginia	64.3	61.6	62.8	70.1	68.0	65.1	65.0	62.8	61.4
Wisconsin	115.8	112.8	110.0	107.7	103.4	108.8	105.4	100.6	92.6
Other States:									
Georgia	52.7	52.2	48.8	—	—	—	—	—	—
Hawaii	57.2	59.6	64.5	62.2	—	—	—	—	—
Idaho	66.4	61.4	—	—	—	—	—	—	—
Iowa	112.9	110.8	107.8	112.0	—	—	—	—	—
Michigan	90.6	90.7	93.3	—	—	—	—	—	—
Mississippi	48.7	46.8	44.5	—	—	—	—	—	—
Montana	74.5	78.9	—	—	—	—	—	—	—
South Carolina	45.3	39.7	42.5	44.6	41.8	40.4	40.9	—	—
West Virginia	57.7	59.4	57.9	—	—	—	—	—	—
Industrial policyholders, Metropolitan Life Insurance Co., age 1 and over	85.4	79.5	78.8	77.0	75.6	75.1	71.8	71.5	72.7

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923-1931—Continued

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
DIABETES MELLITUS (59)									
States with complete data (9 States and District of Columbia), total	21.5	20.4	19.9	20.3	18.3	18.6	17.1	16.7	17.9
Alabama	10.5	8.8	9.0	9.7	8.2	7.8	6.7	5.6	5.5
California	19.2	18.1	18.9	18.8	18.3	18.1	16.7	17.6	18.9
District of Columbia	24.9	26.6	27.7	27.8	23.0	22.4	15.5	17.6	18.0
Louisiana	12.8	12.1	11.2	11.8	11.2	11.1	8.5	8.1	8.9
Maryland	23.0	21.3	19.5	23.2	18.9	23.2	18.2	20.3	20.3
Nebraska	21.2	20.6	21.5	22.4	20.1	16.6	18.9	17.3	21.4
New York (exclusive of New York City)	29.5	23.6	27.3	25.1	24.5	23.9	22.7	21.5	23.4
Ohio	21.7	21.7	20.7	22.0	19.0	19.4	18.2	16.8	19.6
Pennsylvania	24.7	22.4	22.3	22.7	19.6	20.3	18.7	18.8	19.0
Virginia	14.9	14.3	11.9	12.3	13.8	13.6	11.4	10.6	12.1
Other States:									
Connecticut	21.9	17.9	17.5	—	—	—	—	—	—
Georgia	10.9	11.6	10.2	—	—	—	—	—	—
Hawaii	12.3	13.0	12.6	7.2	—	—	—	—	—
Idaho	12.5	7.8	—	—	—	—	—	—	—
Indiana	16.4	15.7	15.0	—	—	—	—	—	—
Iowa	19.8	21.0	18.4	19.3	—	—	—	—	—
Kansas	21.9	20.9	21.4	20.4	—	—	—	—	—
Michigan	19.1	18.1	19.7	—	—	—	—	—	—
Minnesota	19.5	18.2	18.6	20.2	—	—	—	—	—
Mississippi	7.8	8.9	7.3	—	—	—	—	—	—
Montana	15.4	16.2	—	—	—	—	—	—	—
New Jersey	23.9	23.1	23.0	—	—	—	—	—	—
South Carolina	10.3	8.9	8.6	9.0	7.2	7.4	6.3	—	—
Tennessee	10.6	10.8	10.2	9.4	—	—	—	—	—
West Virginia	11.7	12.5	9.7	—	—	—	—	—	—
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	21.4	18.7	18.6	17.9	17.1	17.0	15.5	15.1	16.2
CEREBRAL HEMORRHAGE, APOPLEXY (82 a, b)									
States with complete data (8 States and District of Columbia), total	91.5	93.3	93.7	98.6	93.7	95.2	98.5	101.3	100.0
Alabama	60.7	65.5	64.5	63.7	54.1	52.9	51.5	47.5	43.3
District of Columbia	105.3	99.2	83.8	107.2	103.7	117.3	114.5	114.8	121.0
Indiana	105.7	108.1	108.4	111.2	102.6	109.5	105.7	106.2	104.3
Louisiana	57.5	61.8	60.3	64.9	66.3	61.4	66.3	61.0	53.4
Maryland	108.6	105.1	102.0	101.5	100.5	114.0	124.3	121.2	121.2
Nebraska	84.4	84.5	88.4	83.3	82.4	77.4	79.6	80.0	81.1
New York (exclusive of New York City)	102.8	105.6	117.4	115.9	112.5	121.6	120.0	131.1	128.7
Ohio	109.1	107.7	112.0	113.9	103.6	112.1	114.5	115.4	116.0
Pennsylvania	83.4	85.5	88.7	91.9	89.7	91.2	90.2	95.6	95.0
Other States:									
California	78.6	81.9	80.2	86.2	—	—	—	—	—
Hawaii	50.7	48.3	53.9	61.9	—	—	—	—	—
Idaho	95.3	71.3	—	—	—	—	—	—	—
Iowa	111.2	95.8	97.1	97.9	—	—	—	—	—
Kansas	94.8	99.7	108.9	113.1	99.0	100.1	94.9	—	—
Michigan	87.7	89.9	93.6	—	—	—	—	—	—
Minnesota	75.4	79.5	75.3	—	—	—	—	—	—
Mississippi	64.3	66.6	64.9	—	—	—	—	—	—
Montana	68.0	66.6	—	—	—	—	—	—	—
New Jersey	79.4	80.4	83.4	—	—	—	—	—	—
Tennessee	60.0	62.9	58.8	—	—	—	—	—	—
Virginia	97.7	95.8	89.4	—	—	—	—	—	—
West Virginia	67.9	63.7	49.3	—	—	—	—	—	—

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923-1931—Continued

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
HEART DISEASES (90-95)									
States with complete data (10 States and District of Columbia), total	225.5	226.4	231.1	228.8	211.3	211.8	196.4	185.7	181.2
Alabama	117.0	134.0	136.2	133.2	102.6	108.0	101.0	94.0	78.7
California	253.4	239.7	249.0	242.2	236.0	225.1	222.7	217.9	212.6
District of Columbia	299.0	315.9	325.6	314.8	282.1	281.1	285.4	214.3	227.8
Indiana	167.9	182.5	197.1	189.6	171.1	169.2	160.2	156.6	156.7
Louisiana	178.0	199.1	191.9	183.8	170.4	172.3	160.6	163.6	155.8
Maryland	251.0	245.2	239.2	237.5	229.2	233.0	209.8	194.6	203.6
Nebraska	159.1	159.4	166.0	171.5	156.6	107.5	122.1	117.9	96.4
New York (exclusive of New York City)	317.1	303.5	324.3	309.4	287.5	303.7	274.5	232.5	253.9
Ohio	220.3	225.3	227.1	222.7	207.5	204.9	183.9	171.7	174.1
Pennsylvania	233.4	239.1	236.2	237.8	218.3	223.6	203.6	187.9	189.5
Virginia	188.3	178.2	176.7	198.5	177.0	181.3	168.5	163.9	153.9
Other States:									
Connecticut	203.0	183.6	193.8	179.2	182.3				
Georgia	132.8	138.0	124.5						
Hawaii	105.7	121.4	118.2	112.9					
Idaho	159.7	174.6							
Iowa	200.7	195.8	215.4	212.9					
Kansas	153.9	171.5	163.7	175.3					
Michigan	204.4	229.6	245.8						
Minnesota	177.9	173.4	155.3	153.8					
Mississippi	94.3	104.3	97.2						
Montana	130.6	139.4							
New Jersey	234.3	232.1	246.0						
Tennessee	108.4	120.3	128.9	124.1					
West Virginia	110.6	116.6	112.7						
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over, other organic heart only (90)	150.2	147.1	149.0	144.4	134.7	136.4	128.7	125.2	128.7
PNEUMONIA, ALL FORMS (107-109)									
States with complete data (15 States and District of Columbia), total	79.7	82.7	93.6	98.5	70.5	102.3	99.0	101.7	114.5
Alabama	83.0	85.8	87.5	99.2	68.0	96.0	105.6	118.8	90.8
California	66.5	73.0	78.8	84.6	74.6	74.7	78.2	88.3	90.4
Connecticut	70.6	87.3	105.4	106.7	87.1	111.2	111.4	103.4	128.9
District of Columbia	139.8	122.1	143.3	133.3	121.8	172.1	138.0	161.4	223.4
Indiana	82.3	83.5	98.8	103.9	79.0	109.8	99.2	98.7	116.1
Kansas	51.5	54.2	58.0	62.5	50.3	59.0	65.3	68.0	89.0
Louisiana	81.4	91.5	85.9	96.0	43.8	59.5	105.2	110.5	95.0
Maryland	126.3	118.2	137.6	131.9	127.9	149.3	138.6	143.5	169.5
Minnesota	69.1	71.1	70.5	74.2	67.4	74.4	74.3	72.4	78.4
Nebraska	54.3	64.0	60.1	71.4	56.7	80.4	77.7	80.9	87.7
New Jersey	78.0	77.7	103.5	81.1	54.7	78.9	68.6	63.2	73.7
New York (exclusive of New York city)	75.0	85.4	106.7	97.9	86.6	114.3	98.1	92.4	115.5
Ohio	77.9	74.6	91.2	98.9	82.4	101.7	100.9	92.8	120.9
Pennsylvania	97.2	97.6	106.4	122.0	100.2	137.6	129.4	138.4	158.0
Tennessee	84.5	88.9	91.5	98.3	85.0	109.4	86.2	105.3	101.4
Wisconsin	65.4	72.6	74.6	88.1	66.3	84.4	90.4	90.9	107.5
Other States:									
Georgia	82.9	84.1	77.0						
Hawaii	102.3	118.2	141.1	148.7					
Idaho	76.5	104.0							
Illinois	69.1	63.5	81.9	103.1	74.9	92.1	83.4		
Iowa	66.8	79.6	63.8	70.3					
Michigan	57.6	68.2	88.8						
Mississippi	56.3	60.9	62.7						
Montana	70.3	80.2							
North Carolina	87.1	92.9	90.3	93.5					
South Carolina	104.3	102.4	97.0	113.2	105.1	113.6	114.1		
Virginia	80.6	83.7	76.2						
West Virginia	82.5	91.5	79.5						
Industrial policy holders, Metropolitan Life Insurance Co., ages 1 and over	62.1	62.7	74.0	72.8	63.0	78.2	69.0	70.2	77.6

TABLE 5.—Mortality from certain causes in several States and in a group of wage earners, 1923-1931—Continued

	Rates per 100,000 population								
	1931	1930	1929	1928	1927	1926	1925	1924	1923
DIARRHEA AND ENTERITIS UNDER 2 YEARS (119)									
States with complete data (14 States and District of Columbia), total	13.7	17.9	16.7	18.4	19.5	25.5	31.7	27.8	33.2
Alabama	20.0	31.2	27.4	35.1	30.0	36.2	31.4	33.7	34.9
California	11.5	14.8	15.3	15.6	19.3	20.3	24.8	28.8	33.6
Connecticut	7.9	10.7	14.0	6.9	11.3	16.4	18.9	20.1	21.6
District of Columbia	16.6	19.9	18.4	14.6	12.2	27.3	36.2	24.4	30.8
Indiana	13.1	18.4	16.9	17.7	17.0	26.5	30.9	25.5	28.2
Louisiana	22.4	27.1	26.2	24.9	36.7	32.8	54.8	50.5	32.7
Maryland	31.3	30.0	32.5	29.6	29.2	36.3	48.8	43.2	50.9
Minnesota	4.4	6.8	4.1	7.4	6.6	9.9	13.5	11.2	14.8
Nebraska	7.1	8.3	6.6	9.9	9.4	13.6	17.3	13.9	16.1
New Jersey	9.1	11.5	12.2	14.7	16.4	20.2	26.0	26.1	29.9
New York (exclusive of New York City)	9.8	10.7	11.7	12.2	13.8	18.6	24.8	21.3	27.7
Ohio	11.7	16.4	12.5	14.6	14.3	23.3	27.9	17.6	27.7
Pennsylvania	17.5	23.3	20.3	22.5	23.4	32.6	43.2	36.6	47.9
Tennessee	23.4	28.6	23.9	32.0	25.9	37.7	35.6	34.1	34.7
Wisconsin	10.4	11.2	11.7	11.1	14.1	15.4	20.5	14.8	18.8
Other States:									
Georgia	18.8	24.8	17.9	—	—	—	—	—	—
Hawaii	49.3	76.6	103.1	82.8	—	—	—	—	—
Idaho	4.7	4.7	—	—	—	—	—	—	—
Iowa	5.9	6.6	3.9	6.1	—	—	—	—	—
Kansas	8.1	12.1	10.4	16.9	20.8	29.2	36.7	—	—
Michigan	9.2	14.4	16.0	—	—	—	—	—	—
Mississippi	14.4	15.0	19.2	—	—	—	—	—	—
Montana	10.0	15.3	—	—	—	—	—	—	—
North Carolina	22.2	29.7	30.1	39.1	—	—	—	—	—
Virginia	22.5	26.1	19.7	—	—	—	—	—	—
West Virginia	54.3	70.1	57.8	—	—	—	—	—	—
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over, including adults as well as children under 2 years	5.9	8.0	7.9	8.7	9.1	10.5	12.3	11.8	11.1
NEPHRITIS (130-132)									
States with complete data (11 States and District of Columbia), total	92.2	98.1	97.9	101.8	98.4	103.5	96.5	94.2	95.0
Alabama	88.8	100.4	95.8	88.6	78.8	83.4	81.2	71.6	77.4
California	80.9	84.0	89.1	97.4	94.5	95.5	82.8	87.4	89.6
District of Columbia	146.2	160.4	162.7	156.9	176.2	156.3	144.8	133.8	132.2
Indiana	74.3	84.9	80.9	81.8	80.4	95.7	89.8	93.4	92.7
Louisiana	108.6	112.0	108.2	112.7	93.5	103.6	82.7	78.5	73.4
Maryland	139.2	149.6	151.3	140.0	151.3	158.7	150.1	141.4	139.3
Nebraska	67.9	58.6	68.5	65.2	47.6	49.4	56.1	53.9	57.3
New Jersey	96.3	102.2	99.5	103.4	96.3	101.4	96.9	104.5	103.4
New York (exclusive of New York City)	115.0	120.0	112.4	110.4	114.1	124.2	118.6	112.4	111.7
Ohio	74.0	78.4	84.7	88.2	88.8	89.1	76.9	80.3	80.7
Pennsylvania	92.7	104.3	104.8	111.9	103.6	110.8	107.2	99.9	104.3
Virginia	101.5	108.3	103.0	119.6	113.9	118.7	114.9	103.7	96.1
Other States:									
Connecticut	88.3	73.2	71.6	—	—	—	—	—	—
Georgia	107.4	127.0	134.5	—	—	—	—	—	—
Hawaii	68.4	66.9	—	—	—	—	—	—	—
Idaho	38.7	39.2	—	—	—	—	—	—	—
Iowa	45.9	43.2	49.3	52.3	—	—	—	—	—
Kansas	95.3	102.7	90.5	94.4	—	—	—	—	—
Michigan	58.8	63.7	66.1	—	—	—	—	—	—
Minnesota	50.8	52.2	56.2	57.7	—	—	—	—	—
Mississippi	84.7	97.1	95.6	—	—	—	—	—	—
Montana	66.7	73.1	—	—	—	—	—	—	—
South Carolina	121.2	112.6	105.4	113.1	100.1	103.4	103.6	—	—
Tennessee	69.6	75.9	71.6	—	—	—	—	—	—
West Virginia	64.5	61.3	54.3	—	—	—	—	—	—
Industrial policyholders, Metropolitan Life Insurance Co., ages 1 and over	68.1	69.2	70.6	71.8	70.8	74.9	71.2	66.5	69.6

**COURT DECISION RELATING TO PUBLIC HEALTH**

*Portion of plumbing law held void because not covered by title of act.—* (Kentucky Court of Appeals; State Board of Health et al. v. Willman, 45 S. W. (2d) 458; decided Jan. 15, 1932.) The title of chapter 167, acts of 1930, read as follows:

An act defining plumbing, master plumber, and journeyman plumber in counties containing cities of the first and second class of the Commonwealth of Kentucky, providing for examinations and issuing certificates to qualified registered master plumbers and registered journeymen plumbers and placing same under the jurisdiction of the State Board of Health of Kentucky, prescribing its powers and duties in relation to this act and providing penalties for violation of the provisions of this act.

The State constitution contained a provision that "No law enacted by the general assembly shall relate to more than one subject and that shall be expressed in the title." Section 3 of the act in question provided for the adoption by the State board of health of a plumbing code, while section 4 contained requirements as to the materials and methods to be used in plumbing and drainage work.

The court of appeals upheld the action of the lower court in adjudging these sections to be void, saying that there was nothing in the title from which the reader could infer that the act contained the subject matter of sections 3 and 4 and that such subject matter was wholly foreign to the title. The remainder of the act was not affected by the decision.

# DEATHS DURING WEEK ENDED APRIL 23, 1932

*Summary of information received by telegraph from industrial insurance companies for the week ended April 23, 1932, and corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)*

	Week ended April 23, 1932	Corresponding week, 1931
Policies in force-----	73,603,968	75,152,845
Number of death claims-----	15,009	14,384
Death claims per 1,000 policies in force, annual rate-----	10.7	10.0
Death claims per 1,000 policies, first 16 weeks of year, annual rate-----	10.6	11.1

*Deaths<sup>1</sup> from all causes in certain large cities of the United States during the week ended April 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)*

[The rates furnished in this summary are based upon mid-year population estimates derived from the 1930 census]

City	Week ended Apr. 23, 1932				Corresponding week, 1931		Death rate <sup>2</sup> for the first 16 weeks	
	Total deaths	Death rate <sup>2</sup>	Deaths under 1 year	Infant mortality rate <sup>3</sup>	Death rate <sup>2</sup>	Deaths under 1 year	1932	1931
Total (85 cities)-----	8,376	11.9	627	4.53	12.3	727	12.6	13.8
Akron-----	40	7.9	3	37	6.9	1	7.6	8.5
Albany <sup>4</sup> -----	40	16.0	3	61	15.3	8	15.7	15.7
Atlanta <sup>4</sup> -----	69	12.7	3	29	16.2	7	14.2	16.1
White-----	35	9.7	1	11.6	11.6	2	11.2	12.9
Colored-----	34	18.6	2	57	26.2	5	20.1	22.5
Baltimore <sup>4</sup> -----	194	12.4	8	28	14.0	16	14.8	17.1
White-----	140	10.9	5	23	13.3	11	13.7	15.7
Colored-----	54	18.8	3	48	22.4	5	19.8	23.6
Birmingham <sup>4</sup> -----	67	12.6	2	21	10.6	5	12.2	15.6
White-----	39	11.9	1	16	10.0	2	10.0	12.2
Colored-----	28	13.9	1	27	11.7	3	15.7	21.0
Boston-----	252	16.7	10	30	15.9	30	15.7	16.3
Bridgeport-----	39	13.8	3	53	12.1	3	12.2	13.0
Buffalo-----	162	14.4	16	77	12.3	12	14.3	15.2
Cambridge-----	32	14.6	4	83	11.9	2	14.4	13.7
Camden-----	36	15.8	2	35	14.5	4	16.2	17.5
Canton-----	17	8.2	1	25	9.3	4	10.4	11.2
Chicago <sup>4</sup> -----	714	10.6	49	48	11.1	54	10.9	11.9
Cincinnati-----	111	12.6	5	32	17.7	11	16.7	18.3
Cleveland-----	210	11.9	14	45	11.8	23	12.2	12.7
Columbus-----	86	14.8	7	70	14.6	8	14.7	15.1
Dallas <sup>4</sup> -----	56	10.4	1	-----	9.9	6	11.5	12.6
White-----	41	9.2	1	-----	8.8	5	10.6	11.1
Colored-----	15	16.1	0	-----	15.4	1	16.2	20.1
Dayton-----	76	16.7	4	57	9.7	4	12.1	12.2
Denver-----	86	15.8	5	49	13.2	5	16.5	15.7
Des Moines-----	35	12.5	3	51	7.9	1	12.7	11.9
Detroit-----	261	7.9	27	49	9.1	25	8.6	9.8
Duluth-----	26	13.3	2	58	7.2	1	10.5	11.7
El Paso-----	15	7.3	4	-----	16.4	2	14.4	17.6
Erie-----	31	13.6	6	127	14.2	1	12.4	12.0
Evansville-----	16	7.9	0	0	11.0	3	10.1	12.1
Fall River <sup>4</sup> -----	30	13.6	3	80	13.6	5	13.5	13.7
Flint-----	24	7.4	4	59	10.2	5	8.9	8.0
Fort Wayne-----	21	9.1	4	103	10.6	0	11.0	12.0
Fort Worth <sup>4</sup> -----	32	9.8	1	-----	14.6	4	10.9	12.3
White-----	25	9.1	1	-----	13.4	2	10.5	11.8
Colored-----	7	13.7	0	-----	21.1	2	13.1	14.5
Grand Rapids-----	36	10.8	2	34	9.7	5	9.6	9.9
Houston <sup>4</sup> -----	62	10.0	8	-----	13.5	6	11.2	11.8
White-----	45	9.9	8	-----	10.8	6	10.5	10.8
Colored-----	17	10.4	0	-----	20.7	0	12.9	14.8
Indianapolis <sup>4</sup> -----	81	11.3	9	75	13.0	6	13.8	15.2
White-----	71	11.3	9	83	12.5	5	13.4	14.7
Colored-----	10	11.3	0	-----	16.2	1	16.8	19.0

See footnotes at end of table.

*Deaths from all causes in certain large cities of the United States during the week ended April 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued*

City	Week ended Apr. 23, 1932				Corresponding week, 1931		Death rate for the first 16 weeks	
	Total deaths	Death rate	Deaths under 1 year	Infant mortality rate	Death rate	Deaths under 1 year	1932	1931
Jersey City	73	11.9	8	66	12.6	9	12.0	13.7
Kansas City, Kans. <sup>4</sup>	23	9.7	1	22	11.9	0	13.1	15.5
White	18	9.4	1	27	11.0	0	12.8	14.2
Colored	5	11.0	0	0	15.5	0	14.8	21.1
Kansas City, Mo.	91	11.4	1	11	14.7	13	13.3	15.3
Knoxville <sup>4</sup>	25	11.7	2	51	15.3	1	12.9	14.6
White	18	10.1	2	56	14.3	1	11.9	13.4
Colored	7	20.0	0	0	20.5	0	18.4	20.7
Long Beach	22	7.1	2	52	9.6	0	10.0	10.8
Los Angeles	244	9.2	13	39	11.0	20	11.5	11.6
Louisville <sup>4</sup>	75	12.7	4	37	13.7	7	14.5	17.3
White	58	11.6	4	42	12.2	6	13.0	15.4
Colored	17	18.6	0	0	21.9	1	22.7	27.1
Lowell <sup>4</sup>	26	13.6	4	106	13.0	1	14.8	14.6
Lynn	24	12.2	2	57	5.6	0	12.2	11.9
Memphis <sup>4</sup>	94	18.7	12	131	15.1	7	17.3	18.1
White	40	12.8	7	119	12.1	3	13.2	15.3
Colored	54	28.0	5	151	20.0	4	23.9	22.8
Miami <sup>4</sup>	25	11.5	1	28	12.5	4	12.7	14.5
White	19	11.2	1	39	11.4	2	11.8	13.6
Colored	6	12.4	0	0	16.5	2	15.8	17.4
Milwaukee	100	8.7	8	38	8.3	9	9.5	10.6
Minneapolis	91	9.9	5	33	10.6	7	11.3	12.2
Nashville <sup>4</sup>	51	17.0	5	75	17.8	3	15.3	18.5
White	36	16.5	4	78	16.7	3	14.2	16.0
Colored	15	18.3	1	62	20.7	0	18.4	26.1
New Bedford <sup>7</sup>	23	10.7	2	58	13.9	6	13.7	13.4
New Haven	33	10.6	2	40	12.8	4	13.7	13.6
New Orleans <sup>4</sup>	155	17.1	10	57	17.0	13	16.1	18.9
White	97	15.0	7	61	13.9	4	13.7	15.5
Colored	58	22.1	3	49	24.4	9	21.9	27.5
New York	1,988	11.5	121	54	11.1	143	12.0	13.3
Bronx Borough	213	8.1	10	29	7.6	15	8.8	9.6
Brooklyn Borough	538	10.5	53	59	10.6	.65	11.2	12.2
Manhattan Borough	637	18.8	54	77	16.4	53	18.4	20.2
Queens Borough	162	7.0	2	12	7.1	17	7.6	8.6
Richmond Borough	38	11.9	1	20	15.6	3	14.5	14.3
Newark, N. J.	110	12.8	7	38	11.5	11	12.0	12.6
Oakland	52	9.1	1	13	11.8	2	11.5	11.8
Oklahoma City	41	10.4	3	41	9.8	4	10.5	12.2
Omaha	44	10.5	3	34	13.2	1	14.8	14.3
Paterson	31	11.7	4	73	14.3	2	14.0	16.2
Peoria	24	11.3	1	28	12.5	2	12.5	12.7
Philadelphia	508	13.4	37	57	14.2	48	14.0	16.0
Pittsburgh	164	12.6	16	73	17.0	20	14.7	17.9
Portland, Oreg.	76	12.8	4	51	12.6	1	12.3	12.7
Providence	72	14.7	5	48	13.7	9	15.6	15.2
Richmond <sup>4</sup>	58	16.4	4	60	15.6	8	15.0	18.1
White	35	13.8	3	67	13.5	4	12.6	15.4
Colored	23	22.8	1	46	20.7	4	21.0	24.8
Rochester	86	13.4	3	29	12.1	6	12.9	13.8
St. Louis	230	14.4	44	157	17.3	20	14.8	18.1
St. Paul	74	13.8	3	32	11.9	1	11.4	11.7
Salt Lake City <sup>4</sup>	30	10.8	4	63	13.1	1	11.5	12.6
San Antonio	58	12.3	10	19	19.1	16	14.8	15.4
San Diego	45	14.4	1	22	9.7	1	16.1	15.0
San Francisco	151	11.9	5	35	11.2	5	13.6	14.2
Schenectady	22	12.5	0	0	9.8	3	11.9	12.1
Seattle	97	13.5	4	40	10.9	5	12.4	13.0
Somerville	20	9.8	1	20	8.9	1	10.5	11.1
South Bend	20	9.4	1	20	10.6	3	8.2	9.3
Spokane	26	11.6	1	27	11.2	1	12.7	13.3
Springfield, Mass.	35	11.9	6	101	9.2	2	12.1	13.5
Syracuse	52	12.6	2	26	14.4	2	12.7	13.0
Tacoma	28	13.5	2	65	12.1	2	12.5	14.6
Tampa <sup>4</sup>	19	9.2	4	114	8.4	2	12.5	13.9
White	17	10.4	3	105	8.2	1	12.0	12.8
Colored	2	4.6	1	158	9.4	1	14.8	18.2

See footnotes at end of table.

*Deaths from all causes in certain large cities of the United States during the week ended April 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued*

City	Week ended Apr. 23, 1932				Corresponding week, 1931		Death rate for the first 16 weeks	
	Total deaths	Death rate	Deaths under 1 year	Infant mortality rate	Death rate	Deaths under 1 year	1932	1931
Toledo.....	76	13.2	6	65	12.5	3	12.9	13.6
Trenton.....	51	21.5	3	59	15.2	2	17.9	19.3
Utica.....	36	18.3	2	57	11.7	0	17.1	16.5
Washington, D. C. <sup>1</sup>	168	17.8	14	79	16.6	14	17.6	18.3
White.....	103	15.1	9	74	12.7	3	15.8	15.7
Colored.....	65	24.9	5	89	26.7	11	22.1	25.1
Waterbury.....	17	8.7	1	33	9.8	2	10.6	11.1
Wilmington, Del. <sup>2</sup>	40	19.6	2	45	14.7	5	18.1	16.8
Worcester.....	48	12.6	4	56	16.7	5	13.4	15.3
Yonkers.....	22	8.1	2	52	8.3	3	8.7	10.1
Youngstown.....	25	7.5	1	16	11.2	1	10.8	11.7

<sup>1</sup> Deaths of nonresidents are included. Stillbirths are excluded.

<sup>2</sup> These rates represent annual rates per 1,000 population, as estimated for 1932 and 1931 by the arithmetical method.

<sup>3</sup> Deaths under 1 year of age per 1,000 estimated live births. Cities left blank are not in the registration area for births.

<sup>4</sup> Data for 80 cities.

<sup>5</sup> Deaths for week ended Friday.

<sup>6</sup> For the cities for which deaths are shown by color, the percentages of colored population in 1930 were as follows: Atlanta, 33; Baltimore, 18; Birmingham, 38; Dallas, 17; Fort Worth, 16; Houston, 27; Indianapolis, 12; Kansas City, Kans., 19; Knoxville, 16; Louisville, 15; Memphis, 38; Miami, 23; Nashville, 28; New Orleans, 29; Richmond, 29; Tampa, 21; and Washington, D. C., 27.

<sup>7</sup> Population Apr. 1, 1930; decreased 1920 to 1930, no estimate made.

# PREVALENCE OF DISEASE

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring*

## UNITED STATES

### CURRENT WEEKLY STATE REPORTS

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

#### Reports for Weeks Ended April 30, 1932, and May 2, 1931

*Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended April 30, 1932, and May 2, 1931*

Division and State	Diphtheria		Influenza		Measles		Meningoceleus meningitis	
	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931
New England States:								
Maine	1	4	25	5	290	83	0	1
New Hampshire	1	2		1	22	33	0	0
Vermont					97		0	
Massachusetts	32	38	5	4	854	555	1	2
Rhode Island	2	3			132	32	0	0
Connecticut	5	7	5	3	158	466	0	1
Middle Atlantic States:								
New York	114	110	125	11	2,045	2,702	4	8
New Jersey	26	37	14	17	711	905	0	4
Pennsylvania	70	116			1,725	4,378	13	10
East North Central States:								
Ohio	60	68	117	77	3,445	1,154	2	13
Indiana	16	12	45	4	98	818	5	8
Illinois	53	135	90	10	1,275	1,680	5	21
Michigan	18	59	10	4	2,010	99	1	3
Wisconsin	5	11	52	29	2,320	677	2	1
West North Central States:								
Minnesota	5	14		4	24	165	0	2
Iowa	4	3			6	69	2	
Missouri	17	29	22	1		429	2	
North Dakota	2	7			18	84	0	
South Dakota	2	3		2	3	57	0	
Nebraska	6	7		5	2	30	1	3
Kansas	7	8	2	3	453	89	1	1
South Atlantic States:								
Delaware	10	1			1	205	0	0
Maryland	15	14	26	12	48	1,361	2	2
District of Columbia	7	20	1	2	19	307	0	0
Virginia							1	
West Virginia	5	8	114	28	439	65	2	0
North Carolina	20	19	313	24	608	641	0	
South Carolina	5	20	1,250	543	176	115	0	
Georgia	4	5	95	115	58	166	3	
Florida	8	8	13	6	13	176	0	

<sup>1</sup> New York City only.

<sup>2</sup> Week ended Friday.

<sup>3</sup> Typhus fever, week ended Apr. 30, 1932, 13 cases: 1 case in North Carolina, 6 cases in Georgia, 2 cases in Florida, 3 cases in Alabama, and 1 case in Texas.

*Cases of certain communicable diseases reported by telegraph by State health officers  
for weeks ended April 30, 1932, and May 2, 1931—Continued*

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931
<b>East South Central States:</b>								
Kentucky	17		135		57	248	1	4
Tennessee	8	3	358	85	56	103	4	2
Alabama	10	6	161	101	18	308	2	8
Mississippi	11	4					0	2
<b>West South Central States:</b>								
Arkansas		3	35	92	2	56	3	1
Louisiana	25	16	19	13	37	3	0	1
Oklahoma	10	16	89	73	41	24	2	4
Texas	24	24	76	47	422	73	0	3
<b>Mountain States:</b>								
Montana		2	17		88	7	0	0
Idaho	1	1	2	6		1	0	1
Wyoming		1			24	2	0	2
Colorado	4	1			151	171	1	0
New Mexico	23	4	2	2	33	35	0	1
Arizona	3	1	4	2	1	12	3	0
Utah	2			5	1	1	0	0
<b>Pacific States:</b>								
Washington	3	4	1	33	258	118	0	2
Oregon		5	37	29	361	104	1	0
California	84	80	74	88	603	1,297	5	8
	746	934	3,242	1,486	19,203	20,112	69	159

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931
<b>New England States:</b>								
Maine	0	0	35	20	0	0	1	5
New Hampshire		0	13	1	0	0	2	0
Vermont	0	0	4	2	0	0	0	0
Massachusetts	1	0	520	340	0	0	1	4
Rhode Island		0	58	56	0	0	1	3
Connecticut	0	0	130	59	0	0	0	1
<b>Middle Atlantic States:</b>								
New York	0	1	1,602	863	9	3	4	14
New Jersey	1	1	361	293	0	0	2	1
Pennsylvania	1	0	1,025	652	0	0	10	13
<b>East North Central States:</b>								
Ohio	1	1	527	646	41	90	13	7
Indiana	1	0	91	205	7	72	3	1
Illinois	3	1	407	513	13	79	3	4
Michigan	1	1	453	544	2	12	2	7
Wisconsin	1	1	65	187	1	0	2	3
<b>West North Central States:</b>								
Minnesota	0	0	126	68	1	12	0	2
Iowa	0	0	62	81	62	66	0	0
Missouri	0	0	56	317	3	39	3	2
North Dakota	0	0	17	44	6	2	0	0
South Dakota	1	3	2	21	0	11	0	0
Nebraska	0	0	15	58	13	66	1	2
Kansas	0	0	35	62	2	118	2	3
<b>South Atlantic States:</b>								
Delaware	0	0	18	32	0	0	1	1
Maryland	0	0	120	74	0	0	4	5
District of Columbia	0	0	35	17	0	0	0	0
Virginia								
West Virginia	0	3	23	31	3	3	13	9
North Carolina	2	1	81	44	3	1	1	3
South Carolina	2	1	3	4	0	0	7	5
Georgia	1	0	13	51	0	0	9	11
Florida	0	0	4	4	1	1	3	7

\* Week ended Friday.

† Typhus fever, week ended Apr. 30, 1932, 13 cases: 1 case in North Carolina, 6 cases in Georgia, 2 cases in Florida, 3 cases in Alabama, and 1 case in Texas.

\* Figures for 1932 are exclusive of Oklahoma City and Tulsa, and for 1931 are exclusive of Tulsa only.

*Cases of certain communicable diseases reported by telegraph by State health officers  
for weeks ended April 30, 1932, and May 2, 1931—Continued*

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931	Week ended Apr. 30, 1932	Week ended May 2, 1931
<b>East South Central States:</b>								
Kentucky	1	1	108	103	1	5	11	2
Tennessee	2	2	41	12	13	7	6	1
Alabama <sup>1</sup>	0	0	7	19	12	27	11	7
Mississippi	0	0	8	13	14	54	3	6
<b>West South Central States:</b>								
Arkansas	0	0	3	23	12	7	1	6
Louisiana	1	0	10	30	5	39	17	12
Oklahoma <sup>1</sup>	0	0	12	38	6	83	2	2
Texas <sup>1</sup>	2	0	22	34	45	84	7	17
<b>Mountain States:</b>								
Montana	0	0	15	15	12	3	3	0
Idaho	0	0	1	7	0	3	0	0
Wyoming	0	0	5	12	1	2	3	0
Colorado	0	0	30	30	0	3	0	2
New Mexico	0	0	6	7	0	0	1	0
Arizona	0	0	2	2	0	1	1	4
Utah <sup>1</sup>	0	0	3	9	0	0	0	0
<b>Pacific States:</b>								
Washington	0	1	31	35	20	43	3	2
Oregon	0	0	4	12	15	31	2	1
California	2	4	151	158	5	45	4	14
	24	22	6,450	5,848	328	1,012	163	189

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

<sup>2</sup> Typhus fever, week ended Apr. 30, 1932, 13 cases: 1 case in North Carolina, 6 cases in Georgia, 2 cases in Florida, 3 cases in Alabama, and 1 case in Texas.

<sup>1</sup> Figures for 1932 are exclusive of Oklahoma City and Tulsa, and for 1931 are exclusive of Tulsa only.

### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week.

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Mala- ria	Meas- sles	Pel- agra	Poli- omyelitis	Scarlet fever	Small- pox	Ty- phoid fever
<i>March, 1932</i>										
Louisiana	3	115	292	21	639	28	0	73	15	64
Montana	2	2	972	—	498	—	3	148	2	8
Nevada	2	2	9	—	4	—	0	6	4	4
North Carolina	12	90	414	—	2,320	70	1	240	9	24
Oklahoma <sup>1</sup>	5	67	2,629	21	128	9	0	95	101	11
Oregon	16	753	—	—	709	1	0	91	62	6
Rhode Island	2	40	3	—	2,176	—	0	323	0	1
South Carolina	91	5,426	481	420	147	—	4	32	3	21
South Dakota	7	19	75	—	117	—	3	51	31	4
Virginia	13	138	9,349	15	516	32	3	230	1	20
Washington	5	14	98	—	2,723	—	1	142	121	5
Wisconsin	7	44	2,778	—	2,245	—	3	389	3	5

<sup>1</sup> Exclusive of Oklahoma City and Tulsa.

March, 1932			Puerperal septicemia:	Cases
Chicken pox:		Cases	Oregon.....	1
Louisiana.....	46		Rabies in animals:	
Montana.....	72		Louisiana.....	9
Nevada.....	72		South Carolina.....	10
North Carolina.....	580		Rocky Mountain spotted or tick fever:	
Oklahoma <sup>1</sup> .....	49		Montana.....	1
Oregon.....	169		Oregon.....	2
Rhode Island.....	49		Scabies:	
South Carolina.....	182		Oregon.....	54
South Dakota.....	31		Septic sore throat:	
Virginia.....	666		Louisiana.....	1
Washington.....	333		Montana.....	9
Wisconsin.....	1,116		North Carolina.....	12
Conjunctivitis:			Oklahoma <sup>1</sup> .....	27
Oklahoma <sup>1</sup> .....	2		Oregon.....	1
Dengue:			Rhode Island.....	1
South Carolina.....	5		Tetanus:	
Diarrhea:			Louisiana.....	3
South Carolina.....	269		Oklahoma <sup>1</sup> .....	2
Diarrhea and Dysentery:			Trachoma:	
Virginia.....	65		Montana.....	8
German measles:			Oklahoma <sup>1</sup> .....	11
North Carolina.....	62		Wisconsin.....	1
South Carolina.....	1		Trench mouth:	
Washington.....	78		Oregon.....	1
Wisconsin.....	56		Tularaemia:	
Hookworm disease:			Louisiana.....	16
Louisiana.....	5		Oklahoma <sup>1</sup> .....	2
South Carolina.....	93		South Carolina.....	6
Impetigo contagiosa:			Virginia.....	4
Montana.....	8		Typhus fever:	
Oregon.....	52		North Carolina.....	1
Jaundice:			South Carolina.....	1
Montana.....	1		Virginia.....	1
Oregon (infectious).....	2		Undulant fever:	
Leprosy:			Louisiana.....	1
Louisiana.....	3		Montana.....	1
Lethargic encephalitis:			Nevada.....	1
Montana.....	2		Oklahoma <sup>1</sup> .....	1
Virginia.....	1		South Carolina.....	1
Washington.....	1		South Dakota.....	1
Wisconsin.....	4		Washington.....	1
Mumps:			Wisconsin.....	3
Louisiana.....	2		Vincent's angina:	
Montana.....	26		Oregon.....	9
Oklahoma <sup>1</sup> .....	33		South Carolina.....	1
Oregon.....	94		Whooping cough:	
Rhode Island.....	373		Louisiana.....	154
South Carolina.....	259		Montana.....	81
South Dakota.....	32		Nevada.....	14
Washington.....	116		North Carolina.....	1,563
Wisconsin.....	936		Oklahoma <sup>1</sup> .....	63
Ophthalmia neonatorum:			Oregon.....	101
North Carolina.....	1		Rhode Island.....	71
Oregon.....	1		South Carolina.....	178
South Carolina.....	9		South Dakota.....	106
Washington.....	1		Virginia.....	1,647
Wisconsin.....	1		Washington.....	131
Paratyphoid fever:			Wisconsin.....	881
Oregon.....	1			
South Carolina.....	11			
Wisconsin.....	8			

<sup>1</sup> Exclusive of Oklahoma City and Tulsa.

## GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country, and have an estimated aggregate population of more than 33,995,-000. The estimated population of the 89 cities reporting deaths is more than 32,440,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

*Weeks ended April 23, 1932, and April 25, 1931*

	1932	1931	Estimated expectancy
<i>Cases reported</i>			
Diphtheria:			
46 States.....	802	790	
96 cities.....	333	343	713
Measles:			
45 States.....	16,175	20,714	
96 cities.....	7,205	8,578	
Meningococcus meningitis:			
46 States.....	74	152	
96 cities.....	34	78	
Poliomyelitis:			
46 States.....	17	29	
Scarlet fever:			
46 States.....	5,860	5,488	
96 cities.....	2,965	2,602	1,469
Smallpox:			
46 States.....	344	907	
96 cities.....	54	133	74
Typhoid fever:			
46 States.....	107	137	
96 cities.....	32	19	20
<i>Deaths reported</i>			
Influenza and pneumonia:			
89 cities.....	764	916	
Smallpox:			
89 cities.....	0	1	
Memphis, Tenn.....	0	1	

## City reports for week ended April 23, 1932

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

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1923 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
		Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>NEW ENGLAND</b>								
Maine:								
Portland	0	0	0		0	32	6	3
New Hampshire:								
Concord	0	0	0		0	4	0	3
Manchester	0	0	0		0	0	0	1
Nashua	0	0	0		0	0	0	0
Vermont:								
Barre	0							
Burlington	2	0	1		0	1	1	0
Massachusetts:								
Boston	35	27	3		1	91	65	30
Fall River	6	3	0		0	92	5	5
Springfield	29	2	0		0	70	10	0
Worcester	6	3	3	1	0	2	6	4
Rhode Island:								
Pawtucket	0	2	0		0	0	0	0
Providence	3	7	9	1	0	56	6	.8
Connecticut:								
Bridgeport	4	3	0	2	1	8	1	4
Hartford	5	3	0		2	0	15	2
New Haven	28	1	0		0	0	16	2
<b>MIDDLE ATLANTIC</b>								
New York:								
Buffalo	29	9	2		2	47	11	21
New York	229	218	108	34	22	328	138	178
Rochester	3	3	0		0	85	12	3
Syracuse	14	1	0		0	516	5	3
New Jersey:								
Camden	8	7	0		0	0	0	2
Newark	40	12	1	10	1	53	100	10
Trenton	1	3	0		0	4	4	4
Pennsylvania:								
Philadelphia	110	59	6	13	14	11	72	36
Pittsburgh	42	13	6	2	2	21	35	30
Reading	14	0	1		0	4	0	3
<b>EAST NORTH CENTRAL</b>								
Ohio:								
Cincinnati	18	6	4		2	2	0	8
Cleveland	102	22	3	36	5	1,168	50	16
Columbus	7	2	3	1	1	35	2	2
Toledo	18	3	0	2	1	21	0	6
Indiana:								
Fort Wayne	0	2	6		1	1	0	1
Indianapolis	21	3	5		0	9	87	5
South Bend	5	1	0		0	12	0	3
Terre Haute	1	0	0		0	1	0	3
Illinois:								
Chicago	110	83	30	5	6	670	15	54
Springfield	10	0	2	1	0	0	4	3
Michigan:								
Detroit	73	37	14	5	2	528	49	22
Flint	19	2	0	5	1	426	92	1
Grand Rapids	3	2	0		2	158	28	0
Wisconsin:								
Kenosha	0	0	0		0	41	0	0
Madison	9	0	1			1	0	
Milwaukee	74	9	2		0	1,062	27	0
Racine	24	1	0			387	49	2
Superior	2	0	0		1	0	20	1

## City reports for week ended April 23, 1932—Continued

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
		Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>WEST NORTH CENTRAL</b>								
Minnesota:								
Duluth.....	18	0	0		1	0	1	2
Minneapolis.....	18	10	4		3	7	27	7
St. Paul.....	5	5	0	1	1	4	29	8
Iowa:								
Des Moines.....	0	0	2			0	0	
Sioux City.....	8	0	3			3	1	
Waterloo.....	13	0	0			0	0	
Missouri:								
Kansas City.....	12	3	5		0	4	4	11
St. Joseph.....	2	0	0		0	0	1	3
St. Louis.....	25	29	12	2	1	12	7	10
North Dakota:								
Fargo.....	10	0	0		0	32	1	0
South Dakota:								
Aberdeen.....	3	0	0			4	0	
Nebraska:								
Omaha.....	12	2	4		0	3	1	5
Kansas:								
Topeka.....	38	1	0		1	2	8	2
Wichita.....	6	1	2		0	192	0	1
<b>SOUTH ATLANTIC</b>								
Delaware:								
Wilmington.....	0	2	0		0	0	1	6
Maryland:								
Baltimore.....	129	19	7	6	2	3	114	9
Cumberland.....	0	0	0	2	1	3	0	2
Frederick.....	0	0	1	1	0	0	0	0
District of Columbia:								
Washington.....	20	11	8	3	3	12	0	13
Virginia:								
Lynchburg.....	16	1	0		1	0	0	0
Norfolk.....	8	1	0		0	1	0	6
Richmond.....	5	2	0		5	0	0	3
Roanoke.....	13	0	0		0	0	0	0
West Virginia:								
Charleston.....	0	0	1	3	0	63	0	1
Huntington.....	0	0	1			0	0	
Wheeling.....	0	0	0		0	11	0	1
North Carolina:								
Raleigh.....	0	0	0		0	0	0	
Wilmington.....	3	0	0		0	0	0	1
Winston-Salem.....	14	0	0		0	4	1	1
South Carolina:								
Charleston.....	1	0	0	48	0	0	0	5
Columbia.....	3	0	0		0	66	0	0
Georgia:								
Atlanta.....	6	2	3	13	0	5	1	7
Brunswick.....	3	0	0		0	1	0	0
Savannah.....	3	0	0	5	1	1	0	3
Florida:								
Miami.....	4	2	4		0	0	0	1
Tampa.....	1	1	0	2	2	1	1	0
<b>EAST SOUTH CENTRAL</b>								
Kentucky:								
Covington.....	0	1	0		0	0	0	0
Lexington.....	0	0	1	6	0	2	5	2
Tennessee:								
Memphis.....	2	2	1		2	0	0	6
Nashville.....	0	0	0		0	0	0	4
Alabama:								
Birmingham.....	2	0	1	29	3	1	5	7
Mobile.....	1	0	1		1	0	0	1
Montgomery.....	4	0	0	2		1	12	

## City reports for week ended April 23, 1932—Continued

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
		Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>WEST SOUTH CENTRAL</b>								
Arkansas:								
Fort Smith	1	0	0			0	0	
Little Rock	11	6	1		0	0	3	1
Louisiana:								
New Orleans	0	10	14	4	4	0	6	10
Shreveport	1	0	0			8	5	7
Oklahoma:								
Muskogee	0		0			8	0	
Oklahoma City	3	1	12		1	22	0	10
Texas:								
Dallas	7	5	9	1	1		1	2
Fort Worth	9	2	0		2	0	0	2
Galveston	0	0	4			0	0	2
Houston	0	3	3		1	0	0	4
San Antonio	2	3	0		3	0	0	4
<b>MOUNTAIN</b>								
Montana:								
Billings	0	0	0		0	0	0	0
Great Falls	10	0	0		0	0	0	1
Helena	0	0	0		0	5	0	0
Missoula	0	0	0		0	0	0	2
Idaho:								
Boise	0	0	0		0	1	0	2
Colorado:								
Denver	23	7	8		1	113	65	6
Pueblo	22	1	1		0	2	0	0
New Mexico:								
Albuquerque	3	0	1		0	65	8	0
Arizona:								
Phoenix	0		0		0	0	0	6
Utah:								
Salt Lake City	69	2	1		0	0	3	2
Nevada:								
Reno	1	0	0		0	0	0	0
<b>PACIFIC</b>								
Washington:								
Seattle	21	2	1			215	8	
Spokane	6	2	0			0	6	
Tacoma	4	1	0		0	24	0	3
Oregon:								
Portland	1	6	0	1	0	198	7	6
Salem	3	0	1	1		0	2	
California:								
Los Angeles	134	27	28	38	2	9	26	8
Sacramento	31	1	2		0	22	1	1
San Francisco	88	11	0	2	2	211	8	10

*City reports for week ended April 23, 1932—Continued*

## City reports for week ended April 23, 1932—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
<b>WEST NORTH CENTRAL</b>											
Minnesota:											
Duluth.....	7	0	0	0	0	2	0	0	0	3	28
Minneapolis.....	32	62	0	3	0	1	0	0	0	19	91
St. Paul.....	27	23	0	0	0	1	0	0	0	17	75
Iowa:											
Des Moines.....	8	16	2	1	-----	-----	0	0	0	0	35
Sioux City.....	2	2	1	0	-----	-----	0	0	0	1	-----
Waterloo.....	1	0	0	0	-----	-----	0	0	0	2	-----
Missouri:											
Kansas City.....	21	8	1	0	0	5	0	0	0	14	91
St. Joseph.....	3	1	0	0	0	6	0	0	0	0	38
St. Louis.....	62	25	3	4	0	10	2	1	0	48	230
North Dakota:											
Fargo.....	3	5	1	0	0	0	0	0	0	0	4
South Dakota:											
Aberdeen.....	1	2	0	0	-----	-----	0	0	0	1	-----
Nebraska:											
Omaha.....	4	6	4	1	0	0	0	0	0	1	44
Kansas:											
Topeka.....	3	0	1	0	0	0	0	0	0	35	16
Wichita.....	3	1	2	0	0	0	0	0	0	0	41
<b>SOUTH ATLANTIC</b>											
Delaware:											
Wilmington.....	5	8	0	0	0	0	0	0	0	2	40
Maryland:											
Baltimore.....	40	78	0	0	0	23	2	4	0	158	194
Cumberland.....	1	0	0	0	0	0	0	0	0	1	21
Frederick.....	0	2	0	0	0	0	0	0	0	0	2
Dist. of Columbia:											
Washington.....	24	25	0	0	0	15	0	1	0	31	168
Virginia:											
Lynchburg.....	0	0	0	0	0	0	0	0	0	27	15
Norfolk.....	1	3	0	0	0	2	0	0	0	10	46
Richmond.....	4	13	0	0	0	2	0	0	0	8	55
Roanoke.....	0	6	0	0	0	1	0	0	0	2	6
West Virginia:											
Charleston.....	0	4	1	0	0	4	0	0	0	10	15
Huntington.....	2	0	0	0	0	0	0	0	0	0	0
Wheeling.....	1	0	0	0	0	3	0	0	0	16	20
North Carolina:											
Raleigh.....	0	0	0	0	0	0	0	0	0	0	14
Wilmington.....	0	0	0	0	0	3	0	0	0	11	12
Winston-Salem.....	1	13	0	0	0	0	0	0	0	35	12
South Carolina:											
Charleston.....	0	0	1	0	0	1	0	1	0	0	26
Columbia.....	0	0	1	0	0	0	0	0	0	2	-----
Georgia:											
Atlanta.....	5	8	2	0	0	4	0	0	0	1	69
Brunswick.....	0	0	0	0	0	1	0	0	0	0	2
Savannah.....	0	1	1	0	0	2	0	0	0	3	38
Florida:											
Miami.....	2	0	0	0	0	0	1	0	0	1	25
Tampa.....	1	1	0	0	0	0	0	0	0	0	22
<b>EAST SOUTH CENTRAL</b>											
Kentucky:											
Covington.....	4	0	0	0	0	1	0	0	0	0	14
Lexington.....	0	0	0	1	0	2	0	0	0	4	15
Tennessee:											
Memphis.....	9	8	2	3	0	9	0	0	0	26	94
Nashville.....	2	2	0	0	0	1	0	0	0	6	51
Alabama:											
Birmingham.....	2	4	1	0	0	4	0	0	1	0	67
Mobile.....	0	1	1	1	0	0	0	1	1	0	17
Montgomery.....	0	0	1	1	0	0	0	0	0	4	-----

*City reports for week ended April 23, 1932—Continued*

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths: all causes
	Cases esti- mated expect- ancy	Cases re- ported	Cases esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith.....	1	0	0	0			0	0		0	
Little Rock.....	0	0	0	0		0	0	0	0	9	7
Louisiana:											
New Orleans....	12	11	1	1	0	7	2	1	1	3	155
Shreveport.....	1	0	1	0	0	2	0	0	0	4	39
Oklahoma:											
Muskogee.....		0		0				0		0	
Oklahoma City....	3	10	3	0	0	1	0	0	0	8	49
Texas:											
Dallas.....	4	2	1	0	0	5	1	3	0	11	56
Fort Worth....	2	4	7	4	0	2	0	1	0	0	32
Galveston.....	1	0	0	0	0	1	0	0	0	1	10
Houston.....	1	1	3	0	0	3	0	0	0	0	62
San Antonio....	1	0	1	0	0	3	0	0	0	0	58
MOUNTAIN											
Montana:											
Billings.....	1	0	0	0	0	0	0	0	0	0	8
Great Falls....	1	0	0	0	0	0	0	0	0	0	0
Helena.....	0	0	0	0	0	0	0	0	0	2	3
Missoula.....	1	3	1	0	0	0	0	0	0	0	9
Idaho:											
Boise.....	2	2	1	10	0	0	0	0	0	0	16
Colorado:											
Denver.....	12	14	0	0	0	2	0	0	0	28	78
Pueblo.....	1	2	0	0	0	0	0	0	0	3	8
New Mexico:											
Albuquerque....	0	7	0	0	0	3	0	0	0	1	13
Arizona:											
Phoenix.....	1	0	0	0	0	3	0	0	0	0	0
Utah:											
Salt Lake City....	3	1	0	0	0	0	0	1	0	1	30
Nevada:											
Reno.....	0	0	0	0	0	0	0	0	0	0	4
PACIFIC											
Washington:											
Seattle.....	7	9	3	2			1	0		2	
Spokane.....	5	1	7	0			0	0		9	
Tacoma.....	3	4	3	2	0	1	0	0	0	0	28
Oregon:											
Portland.....	5	2	8	9	0	0	1	0	0	11	76
Salem.....	0	0	1	0			0	0		12	
California:											
Los Angeles....	32	64	7	1	0	29	1	1	0	55	244
Sacramento....	2	0	1	0		5	2	2	0	2	25
San Francisco....	20	12	1	7	0	6	0	0	0	15	151

## City reports for week ended April 23, 1932—Continued

Division, State, and city	Meningo- coccus meningitis		Lethargic en- cephalitis		Pellagra		Poliomyelitis (infa- ntile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
<b>EAST NORTH CENTRAL</b>									
Ohio:									
Cleveland.....	1	0	1	0	0	0	0	0	0
Indiana:									
Indianapolis.....	3	1	0	0	0	0	0	0	0
Illinois:									
Chicago.....	5	4	0	0	0	0	0	0	0
Michigan:									
Detroit.....	1	1	2	0	0	0	0	1	0
<b>WEST NORTH CENTRAL</b>									
Minnesota:									
Minneapolis.....	0	0	1	0	0	0	0	0	0
Iowa:									
Sioux City.....	2	0	0	0	0	0	0	0	0
Waterloo.....	0	1	0	0	0	0	0	0	0
Missouri:									
St. Joseph.....	1	0	0	0	0	0	0	0	0
Nebraska:									
Omaha.....	1	0	0	0	0	0	0	0	0
<b>SOUTH ATLANTIC</b>									
Maryland:									
Baltimore.....	0	0	1	1	0	0	0	0	0
District of Columbia:									
Washington.....	1	1	1	1	0	0	0	0	0
North Carolina:									
Winston-Salem.....	0	0	0	0	0	1	0	0	0
South Carolina:									
Charleston.....	0	0	0	0	3	0	0	0	0
Columbia.....	1	0	0	0	0	0	0	0	0
Georgia:									
Atlanta <sup>1</sup> .....	2	0	0	0	0	0	0	0	0
Savannah <sup>1</sup> .....	0	0	0	0	1	1	0	0	0
<b>EAST SOUTH CENTRAL</b>									
Kentucky:									
Covington.....	0	1	0	0	0	0	0	0	0
Tennessee:									
Memphis.....	2	0	0	0	0	0	0	0	0
Alabama:									
Birmingham.....	0	0	0	0	0	1	0	1	0
<b>WEST SOUTH CENTRAL</b>									
Louisiana:									
New Orleans.....	2	0	0	0	2	0	0	0	0
Shreveport.....	0	0	0	0	0	1	0	0	0
Texas:									
Fort Worth.....	0	0	0	0	0	1	0	0	0
<b>MOUNTAIN</b>									
Idaho:									
Boise.....	0	1	0	0	0	0	0	0	0
<b>PACIFIC</b>									
California:									
Los Angeles <sup>2</sup> .....	0	0	0	0	0	0	0	4	0
San Francisco.....	1	0	0	1	0	0	0	0	0

<sup>1</sup> Typhus fever, 3 cases: 1 case at Atlanta, Ga., and 2 cases at Savannah, Ga.<sup>2</sup> Dengue, 1 case at Los Angeles, Calif.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended April 23, 1932, compared with those for a like period ended April 25, 1931. The population figures used in computing the rates are estimated mid-year populations for 1931 and 1932, respectively, derived from the 1930 census. The 98 cities reporting cases have an estimated aggregate population of more than 34,000,000. The 91 cities reporting deaths have more than 32,400,000 estimated population.

*Summary of weekly reports from cities, March 20 to April 23, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931<sup>1</sup>*

DIPHTHERIA CASE RATES

	Week ended—									
	Mar. 25, 1932	Mar. 28, 1931	Apr. 2, 1932	Apr. 4, 1931	Apr. 9, 1932	Apr. 11, 1931	Apr. 16, 1932	Apr. 18, 1931	Apr. 23, 1932	Apr. 26, 1931
98 cities	1,727	78	47	83	51	65	54	66	1,51	53
New England	65	70	38	46	62	84	29	79	46	56
Middle Atlantic	45	63	44	48	53	59	49	62	55	46
East North Central	31	32	29	64	46	96	44	63	41	58
West North Central	55	163	78	42	27	63	49	63	57	67
South Atlantic	60	61	37	47	37	42	49	66	40	51
East South Central	6	76	6	29	40	18	17	23	17	23
West South Central	112	64	158	85	92	54	119	74	102	71
Mountain	9	87	17	44	52	35	60	17	36	26
Pacific	70	69	57	53	70	57	110	43	59	63

MEASLES CASE RATES

98 cities	1,727	1,203	846	1,122	860	1,327	982	1,316	1,108	1,342
New England	599	1,479	777	1,106	697	1,803	765	1,349	855	1,286
Middle Atlantic	598	1,321	621	1,250	560	1,422	554	1,544	579	1,419
East North Central	1,203	722	1,573	726	1,088	880	2,160	780	2,080	1,073
West North Central	186	651	398	532	388	704	724	580	491	830
South Atlantic	1,232	3,885	245	3,814	343	4,554	298	4,350	338	4,065
East South Central	19	1,650	6	1,515	23	1,706	0	1,627	12	1,615
West South Central	158	47	208	88	49	68	30	102	26	139
Mountain	603	1,140	664	661	1,008	844	1,336	922	1,043	661
Pacific	1,449	519	1,262	359	1,312	500	952	417	916	517

SCARLET FEVER CASE RATES

98 cities	1,478	403	413	371	423	362	477	382	1,456	406
New England	731	697	683	577	774	474	706	584	682	575
Middle Atlantic	755	454	632	404	626	413	744	415	721	488
East North Central	397	378	345	377	360	337	399	382	369	431
West North Central	197	580	205	585	226	538	267	518	252	460
South Atlantic	1,382	311	345	291	318	356	310	307	317	305
East South Central	100	564	92	399	87	470	40	587	87	399
West South Central	49	78	46	95	53	105	56	112	46	98
Mountain	233	209	129	157	250	174	207	278	190	191
Pacific	133	104	122	92	145	104	148	116	171	86

SMALLPOX CASE RATES

98 cities	14	17	4	14	6	19	7	22	18	21
New England	0	0	2	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	0	0	1	0	2	0	1
East North Central	2	7	4	9	4	6	6	19	2	20
West North Central	17	99	2	78	9	26	13	32	15	71
South Atlantic	50	4	0	2	8	18	0	10	0	6
East South Central	138	12	35	12	52	0	46	53	110	35
West South Central	0	78	3	71	10	81	7	95	3	98
Mountain	0	44	26	0	9	17	17	9	86	17
Pacific	15	22	13	16	23	53	27	27	23	41

See footnotes at end of table.

*Summary of weekly reports from cities, March 20 to April 23, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931—Continued.*

**TYPHOID FEVER CASE RATES**

	Week ended—									
	Mar. 26, 1932	Mar. 28, 1931	Apr. 2, 1932	Apr. 4, 1931	Apr. 9, 1932	Apr. 11, 1931	Apr. 16, 1932	Apr. 18, 1931	Apr. 23, 1932	Apr. 25, 1931
98 cities.....	* 5	4	5	4	3	5	5	5	* 5	3
New England.....	5	2	0	2	2	0	2	2	* 0	2
Middle Atlantic.....	3	2	3	3	1	5	2	4	5	4
East North Central.....	3	2	4	2	2	3	4	2	1	2
West North Central.....	4	2	2	4	0	0	2	4	2	4
South Atlantic.....	* 12	12	8	14	16	16	12	8	* 12	2
East South Central.....	* 19	0	6	0	23	6	35	12	6	6
West South Central.....	20	7	13	10	0	3	10	7	23	0
Mountain.....	9	0	0	9	0	0	9	9	9	9
Pacific.....	6	10	17	2	6	8	6	10	6	4

**INFLUENZA DEATH RATES**

91 cities.....	* 36	29	29	23	25	18	20	17	* 17	13
New England.....	17	14	17	2	5	19	7	7	* 10	7
Middle Atlantic.....	36	20	34	17	23	12	23	12	18	12
East North Central.....	41	25	24	18	22	14	20	10	13	6
West North Central.....	23	35	17	12	23	15	20	29	20	18
South Atlantic.....	* 36	32	39	40	61	30	29	32	* 30	10
East South Central.....	44	127	56	127	75	70	38	76	38	45
West South Central.....	84	55	40	69	40	45	20	45	30	55
Mountain.....	43	61	69	26	34	17	9	17	9	17
Pacific.....	5	41	2	14	0	19	5	10	9	5

**PNEUMONIA DEATH RATES**

91 cities.....	* 193	180	167	171	151	155	124	161	* 106	138
New England.....	226	156	166	127	192	173	129	144	* 147	132
Middle Atlantic.....	243	220	203	223	186	168	162	180	128	165
East North Central.....	119	125	113	120	79	118	74	127	72	98
West North Central.....	239	178	204	150	189	253	143	245	143	230
South Atlantic.....	* 272	263	235	222	204	200	167	188	* 104	168
East South Central.....	201	191	194	172	201	178	194	298	113	127
West South Central.....	199	211	172	238	205	169	91	173	101	145
Mountain.....	138	131	121	167	129	191	86	113	112	104
Pacific.....	72	98	88	53	73	60	56	67	51	46

<sup>1</sup> The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1932 and 1931, respectively.

<sup>2</sup> Columbia, S. C., and Montgomery, Ala., not included.

<sup>3</sup> Barre, Vt., and Raleigh, N. C., not included.

<sup>4</sup> Barre, Vt., not included.

<sup>5</sup> Columbia, S. C., not included.

<sup>6</sup> Raleigh, N. C., not included.

<sup>7</sup> Montgomery, Ala., not included.

## FOREIGN AND INSULAR

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### CANADA

*Provinces—Communicable diseases—Week ended April 16, 1932.*—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended April 16, 1932, as follows:

Provinces	Cerebro-spinal fever	Influenza	Lethargic encephalitis	Poliomyelitis	Small-pox	Typhoid fever
Prince Edward Island <sup>1</sup> .....						
Nova Scotia.....		10				
New Brunswick.....						2
Quebec.....				1		16
Ontario.....	2	113	1	1	2	3
Manitoba.....	1				1	3
Saskatchewan.....					1	1
Alberta.....						2
British Columbia.....	1					
Total.....	4	132	1	2	4	27

<sup>1</sup> No case of any disease included in the table was reported during the week.

*Quebec Province—Communicable diseases—Week ended April 16, 1932.*—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended April 16, 1932, as follows:

Disease	Cases	Disease	Cases
Chicken pox.....	28	Poliomyelitis.....	1
Diphtheria.....	21	Puerperal fever.....	3
Erysipelas.....	6	Scarlet fever.....	73
German measles.....	21	Tuberculosis.....	76
Measles.....	256	Typhoid fever.....	16
Ophthalmia neonatorum.....	2	Whooping cough.....	55

### CUBA

*Habana—Communicable diseases—Four weeks ended April 23, 1932.*—During the four weeks ended April 23, 1932, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Chicken pox.....	2		Scarlet fever.....	6	
Diphtheria.....	10	4	Tuberculosis.....	58	9
Malaria.....	6		Typhoid fever.....	21	6
Measles.....	20				

## DENMARK

*Communicable diseases—February, 1932.*—During the month of February, 1932, cases of certain communicable diseases were reported in Denmark as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis.....	6	Mumps.....	220
Chicken pox.....	66	Paratyphoid fever.....	13
Diphtheria and croup.....	246	Scabies.....	922
Erysipelas.....	235	Scarlet fever.....	149
German measles.....	3	Syphilis.....	79
Gonorrhoea.....	780	Typhoid fever.....	8
Influenza.....	49,583	Undulant fever (Bac. abort. Bang).....	47
Lethargic encephalitis.....	11	Whooping cough.....	3,075
Measles.....	2,828		

## PORTO RICO

*Infant mortality—1930 and 1931.*—Information published by the department of health of Porto Rico, giving the number of deaths of children under 1 year of age, from the principal causes of death, reported on the island during the years 1930 and 1931, together with the percentages which these deaths were of the total infant mortality, is shown in the following table:

Cause of death	1931		1930	
	Deaths	Per cent of total	Deaths	Per cent of total
	8,529	100.0	6,878	100.0
All causes.....				
Bronchitis, bronchopneumonia, and pneumonia.....	1,544	18.10	1,302	18.93
Congenital debility.....	1,616	18.95	1,305	18.97
Congenital malformations.....	106	1.24	85	1.24
Diarrhea and enteritis.....	2,602	30.51	2,246	32.65
Diphtheria.....	10	.12	9	.13
Influenza.....	41	.48	15	.22
Malaria.....	512	6.00	270	3.93
Nephritis, acute.....	112	1.31	104	1.51
Syphilis.....	190	2.23	110	1.60
Tetanus.....	332	3.89	378	5.50
Tuberculosis.....	50	.59	36	.52
Whooping cough.....	119	1.40	56	.81
All other causes.....	1,295	15.18	962	13.99

## TRINIDAD

*Port of Spain—Vital statistics—March, 1931, 1932.*—The following statistics for the months of March, 1931 and 1932, are taken from a report issued by the public health department of Port of Spain, Trinidad:

	March, 1931	March, 1932		March, 1931	March, 1932
Number of births.....	190	177	Deaths under 1 year.....	16	12
Birth rate per 1,000 population.....	32.6	29.6	Deaths under 1 year per 1,000 births.....	84.2	67.8
Number of deaths.....	94	83			
Death rate per 1,000 population.....	16.1	13.9			

## YUGOSLAVIA

*Communicable diseases—February, 1932.*—During the month of February, 1932, certain communicable diseases were reported in Yugoslavia, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax.....	20	1	Poliomyelitis.....	3	-----
Cerebrospinal meningitis.....	11	5	Rabies.....	1	1
Diphtheria and croup.....	623	63	Scarlet fever.....	495	47
Dysentery.....	18	1	Sepsis.....	15	6
Erysipelas.....	157	16	Tetanus.....	13	5
Meningitis.....	1,129	6	Typhoid fever.....	188	20
Paratyphoid fever.....	7	-----	Typhus fever.....	26	2

PLAQUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

[C indicates cases; D, deaths; P, present]

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

CHOLERA—Continued

IC Indicates cause; D, deaths; P, preventable.

Shan:								
Ayudhaya Province.....	C	1	1	1	1	1	1	1
Bangkok.....	D	1	1	1	1	1	1	1
On vessel:								
S.S. Angers at Rangoon from Calcutta.....	C	1	1	1	1	1	1	1
S.S. Narbada at Rangoon from Calcutta.....	D	1	1	1	1	1	1	1

<sup>1</sup> Figures for cholera in the Philippine Islands are subject to correction.

Place	No. year 1931	December, 1931			January, 1932			February, 1932			March, 1932			April 1-10, 1932
		Octo- ber, 1931	1-10 11-20	21-31	1-10	11-20	21-31	1-10	11-20	21-29	1-10	11-20	21-31	
<i>Indo-China (French) (see also table above):</i>														
Annam.....	C													
Bangkok.....	D													
Cambodia <sup>1</sup> .....	C	19	4	2	1	1	9	2	3	2	2	6	1	3
Cochin-China <sup>1</sup> .....	D	18	6	8	3	3	2	1	2	7	2	3	2	4
Laos <sup>1</sup> .....	C	14	6	6	2	1	1	2	6	6	2	1	1	2
	D	13	4	6	2	1	1	2	6	6	2	1	1	2

<sup>1</sup> Reports incomplete.

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

## PLAQUE

[C indicates cases; D, deaths; P, present]

Place	Oct. 18. Nov. 15. Dec. 14. 1931	Nov. 13. 1931- Jan. 9. 1931	Dec. 15. 1931- Jan. 12. 1931	Week ended—								April, 1932		
				January, 1932		February, 1932		March, 1932		April, 1932				
	16	23	30	6	13	20	27	5	12	19	26	2	9	16
Argentina: Cordoba Province <sup>1</sup> .....	C	1												
Azores: San Miguel Island.....	C	5						1						
Tercera Island.....	D	1												
Belgian Congo.	D	16												
British East Africa (see also table below): Tanganyika.....	C	6												
Uganda.....	D	1												
Canary Islands: Palma Island—Los Lanos.....	D	218	146	63	14	10	7	7	1					
Ceylon: Colombo.....	D	211	188	63	14	6	6	6	1					
Plague-infected rats.....	D	1												
Chile: Santiago.....	D	1												
Plague-infected rats.....	D	1												
China: Kwang Chow Wan.....	C													
Shantung Province <sup>2</sup> .....	C													
Shantung Province.....	P													
Java—Surabaya.....	C													
Java—Tegal.....	D													
Java and Madura.....	D	612	702	657	103	127	126	144	118	116	108	1		
West Java.....	D	139	198	203	34	46	84	65	65	14	18	40	40	40

## Ecuador (see table below).

Egypt:																												
Alexandria.....	C	6	3	1	1																							
Asyout.....	D	2	8																									
Beheira.....	D	1	2																									
Girga.....	D	2	1																									
Kena.....	D	4	2																									
Minleh.....	D	3	2																									
Port Said.....	D	2	7																									
Tanta.....	D	2	4	1																								
France: Rouen—Devillers.....	C	P																										
Hawaii Territory: Hawaii Island—																												
Hanakua—Honoka.....	C																											
Plague-infected rats, Paulo section—Kukulaau—Plague-infected rats—	D																											
Mai Island—																												
Makaweo.....	C																											
India.....	C	4,236	6,968	1,751	2,122	1,826	2,088	4	2,038	2,187	2,060																	
	D	1,170	1,739	2,912	840	1,047	1,006	1,070	1,348	1,220	1,248	1,149																
Bassein.....	C	1																										
Bombay.....	D	1																										
Plague-infected rats, Madras Presidency.....	D	1																										
Rangoon.....	C	67	169	87	99	87	22	66	10	27	30	31																
	D	24	69	58	44	36	14	42	10	27	30	31																
Plague-infected rats, Indo-China (see table below):	D	5	1	1	1	2	2	1	1	1	1	1																
Iraq: Baghdad.....	C	1	2	1	1	1	1	1	1	1	1	1																
Mardhan.....	D	3	2																									
Madagascar (see also table below): Tamatave.....	D	1	1																									
Morocco.....	C	2	11																									
	D	6																										

<sup>1</sup> 10 cases of bubonic plague were reported in Cordoba Province, Argentina, in January, 1932. They were distant from railroad and 600 kilometers from ports.  
<sup>2</sup> On Oct. 17, 1931, plague epidemic was reported in western Shanxi Province, China, with 2,000 deaths in Hsinghsien.

PLAQUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

## **PLAQUE—Continued**

[C indicates cases; D, deaths; P, present]

Place	Sep-tem-ber, 1931	No-rem-ber, 1931	De-cem-ber, 1931	Jan-uary, 1932	Feb-ruary, 1932	March, 1932	Peru—Continued.		Peru—Continued.	Departments—Continued.	Lambayeque.....	O	March, 1932	
							Septem-ber, 1931	Octo-ber, 1931	Pla-ce	No-rem-ber, 1931	De-cem-ber, 1931	Jan-uary, 1932	Feb-ruary, 1932	March, 1932
British East Africa (see also table above):	O	14	64	44	41	17	33	20						
Ecuador:														
Provine—														
Chimborazo.....	O	13	2	8	6	8	13							
Loja.....	O	4	11	2	11	11	11							
Indo-China.....	O	4	3	9	6	9	12							
Madagascar (see also table above):	O	4	1	6	5	6	6							
Antsiranana Province.....	O													
Ambohitra Province.....	O	1	8	39	142	106	102							
Antsirabe Province.....	O	1	5	37	121	102	93							
Masoala Province.....	O	19	17	27	56	53	53							
Maevatanana Province.....	O	19	17	27	61	51	51							
Milainarivo Province.....	O													
Moramanga Province.....	O	14	18	4	10	14	15							
Tamatave Province.....	O	12	16	9	14	15	15							
Peru—	O	11	13	25	30	13	13							
Departments—	O	66	126	186	248	203	203							
Cajamarca.....	O	63	117	173	241	196	196							
Canete.....	O	2	8	27	21	11	2							
Cajamarca.....	O	2	7	11	9	8	2							

<sup>1</sup> Reports incomplete.

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

SMALLPOX

[O indicates cases; D, deaths; P, present]

Place	Week ended—												April, 1932				
	Oct. 18. 1931	Nov. 15. 1931	Dec. 31. 1931	Jan. 12. 1932	January, 1932			February, 1932			March, 1932			26	27	28	29
Aden.....	C																
Algeria:	O	1															
Constantine Department	O		1														
Southern Territories.....	O																
Brazil:	O	57	61	35	7	4	17	6	12								
Porto Alegre (alastrim)	D	3	1	2													
Rio de Janeiro.....	O	18	2	55	4	8	12	4	1								
Santos.....	D	2		4		5	2		1								
British East Africa: Tanganyika.....	O																
British South Africa:	O																
Northern Rhodesia.....	O																
Southern Rhodesia.....	O																
Canada:	O																
Alberta:	O	6	8	11	—	1	4	8	5	8	10	4	3	7	—	2	1
British Columbia.....	O	2		2		1		5		6							
Manitoba.....	O	2															
Nova Scotia.....	O	1															
Ontario:	O	15	11	14	3	2		1	4	16	1	1				3	4
North Bay.....	O																
Ottawa.....	O	12															
Toronto.....	O	1															
Quebec.....	O	33	34	3	11	21	7	7	23							1	1
Saskatchewan.....	O	3															
Chile:	O	2															
Santiago.....	O																
Tocopilla.....	O																
China:	O																
Amoy.....	D	8	46	218	37	60	54	32	35	34	30	22	16	12	8	10	.7
Shanghai.....	D	6	36	79	14	28	20	29	11	14	12	7	5	3	10	4	13
Carson.....	D	2	14	18	3	11	5	8	18	6	5	15	21	18	20	11	24

	P	P	P	P	P	P	P	P	P	P	P	P
Foochow.....	18	20	47	11	32	16	1	2	1	1	1	1
Hankow.....	C	D	6	12	1	2	2	1	1	1	1	1
Hong Kong.....	C	D	1	1	4	6	7	10	18	6	12	7
Manchuria—Dairen	C	D	1	1	1	1	2	9	9	3	7	8
Nanking.....	C	D	2	1	1	1	1	1	1	3	1	7
Shanghai— Foreigners only.....	C	D	21	77	115	43	40	22	48	30	45	30
Including native.....	C	D	2	81	41	11	21	17	13	24	18	15
Swatow.....	C	D	1	2	1	1	1	1	1	1	1	1
Tientsin.....	C	D	1	1	1	1	1	1	2	1	1	1
Chosen (see table below). Colombia; Cali.....	C	D	1	1	1	1	1	1	1	1	1	1
Dutch East Indies; Batavia.....	C	D	1	1	1	1	1	1	1	1	1	1
Egypt: Cairo.....	C	D	1	1	1	1	1	1	1	1	1	1
Suez.....	C	D	1	1	1	1	1	1	1	1	1	1
France (see table below). Germany; Aix-les-Chapelle.....	C	D	1	1	1	1	1	1	1	1	1	1
Gold Coast (see table below). Great Britain: England and Wales.....	C	D	220	216	198	68	66	49	70	73	42	76
London and Great Towns.....	C	D	129	118	100	24	26	22	18	44	38	22
Guatemala (see table below). Honduras; Cebu.....	C	D	179	191	182	60	60	46	37	50	57	53
Puerto Castilla.....	C	D	1	1	1	1	1	1	1	1	1	1
Quetzaltenango.....	C	D	8	8	8	8	8	8	8	8	8	8
Tela.....	C	D	1	1	1	1	1	1	1	1	1	1
Trujillo.....	C	D	1	1	1	1	1	1	1	1	1	1
India.....	C	D	1,162	2,268	2,361	795	1,184	1,276	1,331	1,628	2,397	2,745
Bassein.....	C	D	246	1,086	484	180	233	268	229	293	493	546
Bombay.....	C	D	1	3	3	1	3	2	1	3	5	13
Calcutta.....	C	D	1	1	2	2	3	2	1	2	1	6
Cochin.....	C	D	1	1	3	3	3	10	9	26	36	22
Karachi.....	C	D	6	3	2	1	1	7	6	7	14	14
	D	1	6	3	2	1	2	12	9	1	4	3
	D	1	1	1	1	1	1	1	1	1	1	1

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cases of smallpox were reported at Vancouver, British Columbia, from Jan. 1 to Feb. 18, 1932.

1690 cases of smallpox with 15 deaths were reported in Honduras from July, 1931, to Feb. 16, 1932.

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

SMALLPOX—Continued.

[O indicates cases; D, deaths; P, present.]

Mexico (see also table below).	
Chihuahua.	1
Durango.	1
Jalisco (State)—Guadalajara—Mexico City and surrounding territory.	5
Monterrey.	1
San Luis Potosi.	2
Torreon.	7
Morocco (see table below).	
Netherlands: Friesland—Opsterland—Nigeria.	11
Panama: Chiriqui.	69
Poland.	15
Portugal:	2
Lisbon.	1
Salvador.	78
Siem.	2
Sierra Leone: Freetown—Strata Settlements.	91
Sudan (Anglo-Egyptian).	18
Sweden: Malmo.	1
Syria (see table below).	
Tunis.	1
Turkey (see also table below): Istanbul.	1
Union of South Africa:	
Cape Province.	1
Cape Transvaal.	1
On vessels:	
Brazilian ship Jabeaton at New Orleans from Brazil.	1
S.S. Aconia at Manila from Shanghai.	1
S.S. Cresington Court at Yokohama from Shanghai.	1
S.S. Bollington Court at Yokohama from Shanghai.	1
S.S. Victoria City at Brisbane from Shanghai.	1
S.S. Bellasco at Mobile from Havana, Cuba, and Hull, England.	1
S.S. Frauentheil at Suez from Calcutta.	1
S.S. Uwajima Maru at Osaka from Shanghai.	1
S.S. President Jackson at Yokohama from San Francisco via Honolulu.	1
S.S. Hong Kheng at Singapore from Amoy, via Swatow and Hong Kong.	1
S.S. Hai Ning and S.S. Soviiken at Hong Kong.	1

<sup>1</sup> Imported case.

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

## SMALLPOX—Continued

[C indicates cases; D, deaths; P, present.]

Place	Week ended—					March, 1932					April, 1932				
	Oct. 15- Nov. 14, 1931	Nov. 30- Dec. 14, 1931	Dec. 31- Jan. 9, 1932	January, 1932	February, 1932	March, 1932	April, 1932	Oct. 15- Nov. 14, 1931	Nov. 30- Dec. 14, 1931	Dec. 31- Jan. 9, 1932	January, 1932	February, 1932	March, 1932	April, 1932	
On vessels—Continued.															
S. S. Merkara at Aden from Colombo.	C														
S. S. Tissedane at Hong Kong from Shanghai and Amoy.	C					2									
S. S. Postung at Shanghai.	C		1	P	P										
S. S. Ratula at Penang from Nagapatam.	C										1				
S. S. Mac Gillivray at Suez from Raouche.	C														
S. S. Telmudi at Southampton from New Zealand.	C														
S. S. Glenbank at Suez from Aden.	C														
Chosen.															
C	7	2	1	1	6	Mexico (see also table above)	D	427	162	279	498	368	303		
D	1	6	1	1	3	Morocco (see also table above)	D	91	162	279	498	368	303		
C					1	Turkey (see also table above)	D				1	22	1		
France.															
Guatemala.															
Place															
	Octo- ber 1931	No- vem- ber 1931	De- cem- ber 1931	Jan- uary, 1932	Febru- ary, 1932	March, 1932	Place	Octo- ber 1931	No- vem- ber 1931	De- cem- ber 1931	January, 1932	February, 1932	March, 1932	April 1-10, 1932	
Gold Coast.															
C															
D	47	120	606	11	1										
D	16	22	93	11	107	191									
C			1	62	86	145									
D			1		47	98									
C															
Indo-China (see also table above). <sup>1</sup>															
C															
D															
C															
D															
Ivory Coast.															
C															
D															
C															
D															
Syria: Beirut.															
C															
D															
C															
D															

<sup>1</sup> A suspected case.

## TYPHUS FEVER

Place	Week ended—																
	Oct. Nov. Dec.			Dec. 18, 1931 Jan. 9, 1932			January, 1932			February, 1932			March, 1932			April, 1932	
	16	23	30	6	13	20	27	5	12	19	26	2	9	16			
Algeria:																	
Algiers.....	2	4	1								3				7		
Constantine Department.....	38	3	6	2	3	2									7		
Gerryville.....	1	1			6	2		1									
Oran.....	2	4	22	16	12	13	3	1	29	36	12	10	1	1			
Bulgaria.....	D		3		2	3	1	3	3								
Chile:																	
Antofagasta.....	C	1	1		1												
Santiago.....	C	34	3														
China:																	
Hankow.....	C																
Swatow.....	C																
Chosen (see table below).....	C																
Colombia (Call).....	D																
Czechoslovakia (see table below).....	C																
Egypt:																	
Alexandria.....	C																
Beheira.....	C	1	1		6												
Cairo.....	C				7												
Gharbieh.....	C	1			1												
Provinces.....	D																
Greece (see table below).....	D																
Irish Free State:																	
Donegal County—Stranorlar.....	C																
Limerick County—Limerick.....	C	2															
Waterford County—Listmore.....	C	1															
Latvia (see table below).....	C																
Lithuania (see table below).....	C																
Mexico:																	
Guadalajara.....	D	16	22	1	5	10	4	6	7	8	3	2	3				
Mexico City, including municipalities in Federal District.....	D	4	4	6	1	4	2	1	4	3	1	2					
San Luis Potosi.....	D	3															
Torreon.....	D	6															
Morocco.....	D	1	17	9		2	1	3	7	19	14	3	21	6	2	4	1

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

## TYPHUS FEVER—Continued

[C indicates cases; D, deaths; P, present]

Place	Week ended—												April, 1932					
	Oct. 18, 1931	Nov. 15, 1931	Dec. 13, 1931	Jan. 9, 1932	January, 1932			February, 1932			March, 1932			April, 1932				
Palestine: Asuncion	C D	3 1	4 1	1 1	16	23	30	6	13	20	27	6	12	19	26	2	9	16
Paraguay: Asuncion	D	106	183	69	61	74	61	49	41	58	67	74	66	52	64	35	36	36
Peru: <sup>1</sup>	C D	3 10	14	4	4	2	2	1	1	3	7	9	6	4	8	5	10	
Poland	C D	38	68	108	62	83	68	61	79	74	94	49						
Portugal: Oporto	C D	9	6	10	3	1	8	1	7	6	11	8	14	26	10	31	22	6
Rumania	C D	3	26	2	—	—	—	1	13	11	—	2	—	2	3	3	4	
Tunis: Tunis	D	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Turkey (see table below)	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Union of South Africa:	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cape Province	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Natal	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Orange Free State	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Transvaal	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Venezuela: Caracas (see table below)	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Yugoslavia (see table below)	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
On vessel: At Antofagasta, from Iquique and points north	C	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	

<sup>1</sup> Typhus fever was reported in Peru from May to November, 1931, 153 new cases being reported during the months of October and November. The disease did not spread to the coastal regions.

Place	Octo-ber, 1931	No-vem-ber, 1931	De-cem-ber, 1931	Jan-u-ary, 1932	Fe-bruary, 1932	March, 1932	Place	Octo-ber, 1931	No-vem-ber, 1931	De-cem-ber, 1931	Jan-u-ary, 1932	Fe-bruary, 1932	March, 1932	
Chosen: Seoul.....	C	24	4		6		Lithuania.....	C	5	9			10	22
Czechoslovakia.....	D	1	1		1		Turkey.....	D	1				3	3
Greece.....	C	18	10	1			Venezuela: Caracas.....	C	11	14	21	14	22	6
Latvia.....	D	1	3	6	4		Yugoslavia.....	D			2	3	1	2
	D	12	4	1	6			C			1	2	11	20
	C				12			D				1	2	1

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

## YELLOW FEVER

[C indicates cases; D, deaths; P, present]

Place	Week ended—							April, 1932								
	Oct, 18- Nov. 14, 1931	Nov. 16- Dec. 12, 1931	Dec. 18- Jan. 9, 1932	January, 1932			February, 1932			March, 1932			12	19	26	2
Brazil:																
Alagoas State—																
Maceio.....	D	1														
Utinga.....	D	3														
Bahia State—	D	2														
Sobral.....	D	1	2													
Esplito Santo State 1.....	D															
Santa Teresa (about 56 miles from Victoria).....	D															
Pernambuco State—																
Pau d'Alho.....	D															
Dahomey: Porto Novo.....	D															
Gold Coast:																
Ayudza.....	D															
Cape Coast.....	D															
Dagomba District.....	D															
Salsaga.....	D															
Tamale.....	D															
Ivory Coast: Téhini.....	D															
Nigeria.....	D															
Sudan (French): Mecina—Kayo Circle.....	D															
Togo (French): Atakpame—Anié Circle.....	D															
Upper Volta: Dedougou.....	D															

1. During the 2 weeks ended Apr. 22, 1932, a number of cases of suspected yellow fever were reported in the interior of the State.

X