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THE PREVENTION OF ROCKY MOUNTAIN SPOTTED FEVER

A very few years ago it was thought that Rocky Mountain spotted fever occurred only west of the Mississippi River. However, in 1930 research workers of the Public Health Service discovered that this disease was also present in some of the Eastern States, particularly those of the Atlantic seaboard. So far the disease has not been recognized in the New England States.

Rocky Mountain spotted fever is transmitted to man by the bite of infected ticks. Several species of ticks are able to harbor the infection, but the two species responsible for the great majority of the human cases are the *Dermacentor andersoni*, or wood tick of the Northwest, and the *Dermacentor variabilis*, or common dog tick of the East. Apparently not many of the ticks are infected with spotted fever, but the disease in man is serious enough to warrant the practice of precautionary measures.

Ticks appear early in the spring, are most numerous during May, June, and July, and disappear rapidly in August. The tick season is a little earlier in the West than in the East.

When the ticks appear, they are unfed and are seeking some animal in order that they may attach themselves and suck blood. They crawl up on long grass and bushes and wait for some animal, wild or domestic, to pass. When the tick drops on an animal, including man, it does not start feeding at once but usually spends some time in searching for a suitable place. The hairy parts, especially along the back of the head or in the armpits, are often chosen by the tick. Experiments have shown that a previously unfed infected tick may attach to the body and feed for a few hours without transmitting the infection; but it then becomes highly infectious.

A vaccine has been prepared by the Public Health Service which is of value in the prevention of spotted fever.

There are three measures which we, as individuals, may use to prevent spotted fever: (1) Avoid ticks; (2) remove ticks from the person as early as possible; (3) be vaccinated.

On camping trips, if it is necessary to sleep in the open, care should be used in selecting a site for placing the bed, as ticks will crawl into a bed laid on the ground. Since ticks are usually most numerous where rodents are most abundant, areas well populated with rodents should be avoided. The safest camping ground is undoubtedly in standing timber where low vegetation is scanty. Proximity to trails and old

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roads should be avoided. In sage-brush sections, avoid the sage brush. Avoid brushy areas along streams as camping grounds. The dog tick is far more likely to be present along the course of streams than is the wood tick.

Persons should be especially watchful when walking along trails. Ticks tend to concentrate on vegetation along the sides of trails and in the bushes along the edge of wooded areas. Similarly, vegetation along roadsides and grassy strips in the middle of little used roads are often very dangerous. It is especially desirable to watch the clothing when following trails or old roads.

In the prevention of tick bite, the first precaution is the wearing of such clothing as will prevent ticks from getting underneath. This may be accomplished to a considerable extent by wearing high boots, leggings, puttees, or socks that are worn outside the trousers legs. With such precautions taken, most ticks will crawl up the outside of the clothing and can be removed from the neck when contact with the skin makes their presence known. Passing the hand over the neck occasionally to feel for ticks is a good habit to acquire.

Ticks are far more likely to secure a hold on rough clothing than on clothing of smoother texture. There are advantages in both, however. Fewer ticks secure a hold on smooth clothing; but, on the other hand, on cloth with a heavy nap their movements are impeded and are necessarily much slower. If the legs of the trousers are carefully watched, most ticks can be picked off soon after they catch hold.

In spite of precautions, however, a certain number of ticks will reach the body through the various openings in the clothing. It is therefore important that the above precautions be supplemented by the examination of the inside of the clothing and of the body. Since ticks seldom attach immediately (unless late in the season), and are seldom infectious until after having been attached for a few hours, such examinations made twice each day (early afternoon and on retiring) should ordinarily be sufficient. In heavily tick-infested areas, however, or in sections known to be particularly dangerous, more frequent examinations should be made. When retiring, a complete removal of the clothing is desirable. Both clothing and body should be examined carefully and, if possible, any clothing not worn at night should be so placed that any undiscovered ticks will be unlikely to crawl from the clothing to the bed. If two or more persons are together, they should assist one another in the examination. If the person is alone, the back and other portions of the body that cannot be seen should be explored with the hands, paying particular attention to the hairy portions.

Ticks may be removed from man and domestic animals with the fingers, but a better plan is to use a pair of small forceps or tweezers. With these the tick may be seized by the head, close to the skin, and easily removed. There is no danger of leaving the tick's head embedded in the skin. Care should be exercised against crushing the tick, as the contents of infected ticks are dangerous. After removing or handling ticks, the hands should be washed thoroughly with soap and water.

Two or three inoculations of the vaccine give a degree of protection usually sufficient to last through one tick season, but the immunity apparently is not permanent. Occasional cases of spotted fever have developed in vaccinated persons, but the vaccine apparently lessens the severity of the disease and seems to insure recovery. For its full protective value the vaccine should be taken at least 10 days before exposure to tick bite. The vaccine is of no value in the treatment of spotted fever.

# TRENDS IN DIPHTHERIA MORTALITY

By EDWARD A. LANE, M.D., M.P.H., Director of Communicable Disease Control Westchester County (N.Y.) Department of Health

Diphtheria mortality statistics for the 10 States admitted to the death registration area up to and including 1900 were assembled in order to study recent trends in those areas. The earliest years for which such data were found to be available are as follows: Massachusetts, 1842; Vermont, 1857; Michigan, 1874; New Jersey, 1879; New Hampshire, 1884; Connecticut, 1885; New York, 1885; Maine, 1892; Rhode Island, 1894; and Indiana, 1900 (table 1).

Two periods were selected, namely, from 1895 to 1911 and from 1900 to 1927. The trend in the earlier period could not be compiled for Indiana because of insufficient data. It will be noted that the later period terminates for Maine with the year 1926, while that for Massachusetts extends to 1928. The two periods were selected because (1) diphtheria mortality statistics for Rhode Island and Indiana were not available prior to 1894 and 1900, respectively; (2) with lower rates in more recent years it seemed advisable to make the later period longer than the earlier in order more nearly to equalize the numbers of deaths in the two periods; and (3) the study being based upon Massachusetts statistics, the periods appeared to be most suited to the Massachusetts curve, at the same time permitting the inclusion of Indiana in the later period.

The mean death rates arranged for each period in ascending order of magnitude are as follows:

State	Ra	ate	Percent	Chata	R	Percent	
State 1895-1911 1900-1927 decrease		State	1895-1911	1900-1927	decrease		
Vermont Maine Michigan New Hampshire Connecticut	17. 0 20. 9 21. 5 24. 4 29. 9	9.8 12.3 18.5 15.5 19.2	42 41 14 36 36	Massachusetts Rhode Island New York New Jersey Indiana	34. 2 36. 4 39. 4 44. 5	20. 7 22. 2 23. 0 23. 8 14. 7	39 39 42 47

Mean diphtheria death rates per 100,000 population

Excluding Indiana, which appears only in the later period, the States occupy the same relative positions in both periods, except for Michigan and New Hampshire, which reverse their relative positions. The difference between maximum and minimum average rates for the earlier period is 27.5, as compared with 14.0 for the later, the decrease being due for the greater part to a fall of 20.7 in the maximum rate. The minimum rate shows a reduction of 7.2. Excepting Michigan the percentages showing decrease in the later period are strikingly similar.

The States with smaller and less dense populations occupy the more favorable positions. One is led in this connection to speculate as to whether the less favorable position occupied by Michigan in the later period reflects to any degree the expansion of the automotive industry with a resulting increase in urbanization in that State.

The trends for the two periods in descending order of magnitude are as follows:

State	1895-1911	1900-1927	State	1895-1911	1900-1927
New Jersey Vermont Massachusetts New York Maine	-0. 0359 0350 0341 0276 0275	-0.0229 0166 0231 0262 0241	Rhode Island Connecticut Michigan New Hampshire Indiana	-0.0252 0237 0214 0204	-0.0250 0216 0049 0252 0109

The Michigan trend in the later period is the only one that is not of statistical significance, due to the very erratic course of the curve of diphtheria mortality in that State during that interval.

While all of the trends are descending, there is a decided tendency for them to slow up in the later period. The only two exceptions to this are New Hampshire which shows a more favorable decline, and Rhode Island with approximately the same trend in both periods.

Disregarding Michigan, because of lack of significance of its trend in the later period, and Indiana, the trend for which could not be computed for the earlier period because of insufficient data, the difference between the maximum and minimum trends in the earlier period is 0.0155 while in the later period it is 0.0096, showing a tendency toward greater uniformity. The falling off in the trends is shown to a greater degree in a comparison of the maximum trends, with a difference in favor of the earlier one of 0.0097. The minimum trend for the earlier period is but 0.0038 greater than that for the later one.

The relative positions of the several States with respect to degree of downward trend in the two periods are extremely variable. New Hampshire, the only State with a greater trend in the later period, moves from 9th to 2nd position, while Vermont, which shows the most unfavorable change in trend, drops from 2nd to 8th place.

The continued decrease in the diphtheria death rates at a comparatively low level, coupled with the tendency of the trends to slow



up, suggests that the rates are approaching the point where the downward acceleration would naturally become retarded and the curves would tend to flatten out with progressively smaller reductions in rates.

# TABLE 1.—Diphtheria mortality rates per hundred thousand population for the ten States admitted to the United States death registration area up to and including 1900, from 1858 to 1931, as available

Year	Massa- chu- setts 1	New Jersey	Con- necti- cut <sup>3</sup>	New Hamp- shire <sup>2</sup>	New York ?	Rhode Island	Ver- mont 2	Indi- ana <sup>s</sup>	Maine	Michi- gan <sup>3</sup>
1858	43.2	l		·			21.6			
1860	68.0						12 0			
1861	89.0						155.8			
1862	91.9						282.7			
1863	181.7		<b>.</b>				416.6			
1864	158.0						291.6			
1868	82.4						130.1			
1867	45.0						34.5			
1868	56.4						31.1			
1869	54.0						31.1			
1870	46.3						32.0			
18/1	49.8						19.9			
1873	47.2						34 1			
1874	56.5						45.9			26.0
1875	113.5						49.0			26.5
1876	195.8						73.2			33.6
1877	186.1						134.0			43.7
1870	145.2	108 9					137.0			72.7
1880	134 1	77 1					120.0 84 1			110.0
1881	131.0	97.2					92.9			145.3
1882	95.6	123.7					80.3			102.0
1883	86.0	94.7					59.2			75.7
1884	85.8	82.1		44.2			41.2			76.5
1885	78.0	117.0	73.0	41.9	81.2		58.0			74.5
1887	78 7	113 7	67 1	70 0	113 2		40.7 80.6			19.0 68.3
1888	86.1	148.0	73.2	53.0	110.7		82.7			59.2
1889	101.3	111.8	97.7	79.6	98.9		92.3			61.0
1890	72.5	109.2	74.6	60.2	81.7		73.4			83.2
1891	53.0	117.4	75.8	56.9	82.6		59.8			63.4
1892	61.9	117.4	68.0	46.8	94.4		55.3		32.0	60.7
1893	08.U 73.2	91 0	08.0 45.1	20.7	93.0	25 2	40.1		23.0	00. 0 24. 0
1895	71.1	87.5	47.5	32.5	75 1	88.5	24.0		29.8	34 5
1896	65.3	102.2	58.4	36.5	67.9	72.0	37.9		26.3	39.8
1897	54.2	78.3	47.1	35.9	59.6	57.5	48.1		41.8	32.0
1898	26.3	52.4	31.7	26.9	37.2	22.6	17.7		36.3	19.3
1899	38.1	41.9	26.0	25.2	38.9	20.5	14.1		21.9	18.2
1900	52. 5 40. 0	48.7	33.0	24.2	40.4	44.3	14.0	27.0	22.3	21.9
1902	30.2	37.4	27.2	39.0	37.4	33.0	7.5	15.7	16.6	20.1
1903	29.6	37.1	25.7	24.4	38.8	41.2	12.8	17.1	16.6	27.0
1904	23.5	44.6	22.2	16.2	37.3	29.6	16.8	11.6	23.3	20.0
1905	21.6	32.6	23.1	18.2	28.0	25.2	16.8	13.5	15.4	18.3
1906	24.1	30.6	27.1	20.3	32.1	24.4	19.5	14.8	16.6	17.8
1907	23.8	28.1	23.3	22.3	∩0.3 99.9	22.8	12 9	14.0	10.9	10. U 19. P
1909	21.0	25.9	19.4	16.7	25.8	18.9	8.1	12.6	15.3	14.3
1910	20.1	28.7	24.5	16.4	26.6	23. 2	8.9	14.0	13. 3	17.6
1911	16.4	21.7	21.6	15.4	21.1	24.8	6.4	13.8	10.3	16.3
1912	13.5	17.9	16.7	19.5	17.2	23.6	8.9	18.9	12.9	15.6
1913	17.6	21.0	18.8	13.7	19.3	23.8	5.6	18.7	11.7	22.0
1015	10.5	17 4	19.2	7 4	17.8	16.4	10 0	10.6	11.0	10.1
1916	16.7	15.1	14.5	11.0	15.2	23.3	6.4	13.5	7.3	15.3
1917	21.8	14.8	17.3	10.7	10.7	17.3	7.3	15.3	9.4	25. 0
1918	15.6	16.2	14.3	8.3	17.3	16.1	7.0	14.7	7.4	19.6
1919	15.5	18.1	17.3	8.5	19.9	19.5	4.2	10. 9	6.1	21. 3
1920	15.3	17.7	10.9	12.1	18.2	19.9	5.9	12.2	7.9	24.2
1922	15 4	18 9	12 9	10.0	10.1	10 0	10 7	18 9	7 0	20.0
1923	14.6	14.0	12.7	9.1	9.3	11.3	10.7	14.3	6.4	17.5
1924	13.3	9.8	11.2	7.5	9.8	9.2	7.0	8.1	7. 5	12 1
1925	8.0	9.3	8.2	6.6	8.9	6.6	7.3	5.6	4.5	9.1
1926	5.9	8.9	5.3	4.0	6.4	6.3	4.2	5.9	2.8	17.1
1927	6.3	11.4	5.8	4.0	8.6	8.8	2.5	7.5	3.8	11.7
1920	0.0	12.2	0. Z	0.0	7.4	7.3	3.1	0.7	3.2	8.4 10 e
1930	4 3	81	20	4 1	27	5.4	1.9	41	33	6 2
1931	3.0	2.9		3 2	22	4.7	īi	41	2.5	3.5

Admitted to United States death registration area in 1880.
 Admitted to United States death registration area in 1890.
 Admitted to United States death registration area in 1900.

## CORRELATION OF ANNUAL DEVIATIONS FROM TREND

The correlation of annual plus and minus deviations from the trend lines has been computed by the short formula,  $r = \sin \frac{\pi}{2} \frac{(m-n)}{m+n}$ . The number of observations was 28 (1900–1927) for each of the States except Maine, for which there were 27.

In the correlation table (Table 2) we note that, irrespective of significance of correlation, only 8 of the 45 correlations are negative; whereas, with nothing but chance operating, we would expect them to be about evenly divided—that is, with approximately 22 negative correlations. If we consider only the significant <sup>1</sup> correlations, we find but 2 of 19 to be negative. This indicates some significant factor correlating the annual deviations in a positive manner.

The highest positive correlation is between Massachusetts and Indiana (0.84). The States with the largest number of significant positive correlations are Connecticut and Michigan, each with 6, as follows:

	Michigan	
0. 78	Indiana	0. 63
. 65	Connecticut	. 53
. 53	Massachusetts	. 53
. 53	Rhode Island	. 53
. 44	New Jersey	. 44
. 44	New York	. 44
	0.78 .65 .53 .53 .44 .44	Michigan           0. 78         Indiana

The only two significant negative correlations are Maine and Rhode Island (-0.50) and Vermont and Rhode Island (-0.44).

 TABLE 2.—Correlation of annual deviations from trend lines of logs of diphtheria

 mortality rates

,	New Hamp- shire	Michi- gan	New Jersey	Maine	Rhode Island	New York	Con- necti- cut	Indiana	Ver- mont
Massachusetts. New Hampshire Michigan New Jersey Maine. Rhode Island New York Connecticut Indiana	-0.22	+0.53 +.10	+0. 32 10 +. 44	+0. 17 +. 60 17 +. 17	+0. 44 +. 22 +. 53 10 50	+0. 32 +. 32 +. 44 +. 63 +. 29 +. 10	+0.78 +.44 +.53 +.32 +.39 +.44 +.53	+0.84 +.10 +.63 +.22 +.29 +.65 +.22 +.65	+0.44 22 10 +.32 +.17 44 +.10 +.22 +.10

Considering the nature of the disease in question and the wide extent of the territory embraced by the 10 States, the general group correlation suggests the influence of the larger, long range annual variations in meteorological conditions. In this connection it is inter-

<sup>10.45</sup> and over indicates but 2 chances in 100 of such a chance correlation.

esting to note that the 10 States are all in about the same latitude, and this is even truer of their more densely populated portions. We know, moreover, that the excessively cold waves of winter originate in the West and Northwest and move eastward to affect a wide area of the country. The States here considered would all probably be affected to a similar degree by annual variations in the number and intensity of these more extensive and intense cold waves.

# MORTALITY IN CERTAIN STATES DURING 1932, WITH COM-PARATIVE DATA 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 death rates from important causes from as many States as could furnish the information. The rates are computed from preliminary reports and 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 cannot 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 available.

For purposes of comparison, the mortality rates for a few preceding years are given. These comparative rates are from the same source as are the current reports. Although final figures are often available for earlier years, the provisional figures are retained as being more comparable with current preliminary rates.

In table 1 the death rates from important causes for groups of States have been brought together. Nearly all of the rates are based on data from 28 States with a population of nearly 94 million. The detailed tables show rates for each State. The summary table includes for each cause every State that is included for all five years in the detailed tables. While the rates in this group of 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.

In considering the trend of the rates in the 5-year period shown in the tables it should be remembered that the mortality of both 1928 and 1929 was increased somewhat by the influenza epidemic of the

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

winter of 1928-29. However, 1930 was free from any wide-spread epidemic and such epidemics as occurred in 1931 and 1932 were distinctly minor.

The death rate from all causes in the 27 States was 10.8 in 1932, as compared with 11.0 and 11.2 in 1931 and 1930, respectively. Of the 27 States, 20 showed a decline in 1932 from 1931 and 3 an increase in mortality, with 4 States remaining the same in both years.

In 26 States the infant mortality in 1932 was 58 per 1,000 live births as compared with 61 and 62 for 1931 and 1930, respectively. Considering the individual States, 22 of the 26 States with data available for both years showed a decrease in 1932 as compared with 1931, with increases in the other 4 States.

In spite of the fact that 1932 represents the third year of the depression, the death rate from tuberculosis in the group of 28 States was only 60 per 1,000 as compared to 65 and 68 in 1931 and 1930, respectively. The amount of the decline was apparently about the same as has taken place in the past several years. Of the 28 States, 26 showed a decline and only 2 an increase; however, in 4 States the decline was very small.

Typhoid fever continued a rather steady decline, being 3.2 per 100,000 for 1932 as compared with 3.8 and 4.0 for 1931 and 1930, respectively. Twenty-two of the 28 States showed a decrease in 1932 as compared with 1931, 1 remained the same, and 5 had a higher rate in 1932 than in 1931. Diarrhea and enteritis likewise continued a steady decline. The deaths of children under 2 years of age amounted to 10.3 per 100,000 total population as compared with 14.0 and 17.9 in 1931 and 1930, respectively. Of the 27 States with available data, 26 showed decreases and only 1 increased in 1932 as compared with 1931.

Influenza, of apparently a mild form, was rather prevalent in the early spring months of 1932 and again in December, with the major portion of the mild epidemic coming in the last week of 1932 and the first week of 1933. A minor epidemic also occurred in 1931, but 1930 was free from any excess deaths from this cause. The deaths credited to influenza in 1932 amounted to 28 per 100,000 as compared with 26 and 19 in 1931 and 1930, respectively. All of these figures are distinctly less than those for 1928 and 1929, when a more severe epidemic occurred. Mortality from pneumonia was slightly less in 1932 than in preceding years, being 77 in 1932 as compared with 82 and 83 in 1931 and 1930, respectively. Considering both influenza and pneumonia the mortality of 105 per 100,000 in 1932 is slightly less than in 1931 (107) and slightly greater than in 1930 (102). The mortality of 1928 and 1929 was definitely greater for both causes. Of the 28 States, 20 had higher influenza rates in 1932 than in 1931. Only eight had higher pneumonia rates in 1932 than in 1931, and in one other State the rate was the same.

Because of wave-like fluctuations that occur in the incidence of the communicable diseases of children, the comparison of one year with another means little as to the real trend of the mortality from these diseases. Diphtheria, which has been declining for many years, reached a new low level of 3.8 in these 28 States as compared with 4.0 and 4.6 in 1931 and 1930, respectively. The mortality from this much-dreaded disease was in 1932 less than the mortality from whooping cough.

The death rate from poliomyelitis was less in 1932 than in either of the two preceding years, being the same as in 1929. In 1930 the disease was epidemic in certain States, and 1931 marked a considerable epidemic in the Eastern States and particularly in New York City. Twenty-two of the 28 States had lower rates in 1932 than in 1931. Meningitis mortality was likewise small in 1932. Twentyfour of the 28 States showed decreases in 1932 as compared with 1931.

The death rate from diabetes was greater in 1932 than in any of the 5 years included in the table. In 21 of the 28 States there was an increase in 1932 as compared with 1931, while in 6 States there was a decrease, with the other State remaining the same in the two years.

Cancer continued its steady increase, the rate of 101 per 100,000 in 1932 being greater than in any other year included. Twenty of the 28 States increased in 1932 as compared with 1931 and 8 decreased.

Diseases of the heart continued to increase, 20 of the 26 States with available data having higher rates in 1932 than in 1931. The death rate from nephritis was about the same in 1932 as in 1931, but was less than in 1930 in the group of 27 States with available data. Of these States, 14 had a higher rate and 13 had a lower rate in 1932 than in 1931. In 25 States with available data on cerebral hemorrhage, the rate in 1932 was very slightly above that for the last two preceding years. In 13 of these States there was an increase in 1932 over 1931, in 11 a decrease, and in 1 the rate was the same for both years.

Diseases (numbers in parentheses are from the International List of Causes of Death, fourth revision, 1929)	1932	1931	1930	1929	1928
	De	ath rate	per 1,000	) populat	ion
27 States (population July 1, 1932, 92,110,000): All causes	10.8	11.0	11.2-	11.8	13.0
	Deaths	under 1	year per	1,000 liv	e births
26 States (live births, 1,520,808): Total infant mortality 20 States (live births, 1,225,370):	. 58	61	62	66	74
All infant mortality except malformations and early infancy.	26	28	28	32	85
	Death	s of moth	ners per	1,000 live	births
26 States (live births, 1,520,808): Maternal mortality	5.9	6. 2	6. 2	6.4	7.1
•	Dea	th rate p	er 100,00	0 popula	tion
28 States (population July 1, 1932, 93,855,000): Typhoid fever (1, 2)	3.2	3.8	4.0	3.6	4. 2
Measles (7)	1.5	2.5	2.9	2.4	4.7
W nooping cough (9)	20	21	10	21	1 0
Dinhtheria (10)	3.8	41	4.6	6.4	7. 2
Acute anterior poliomyelitis (16)	.7	1.9	1.1	.7	1.1
Meningococcus meningitis (18)	1.3	2.1	3.1	3.9	2.4
Influenza (11)	28.0	25.7	19.1	52.8	43.2
Photomonia, all forms (107–109)	77.4	82.0	83. Z	92.0	100.2
Tuberculosis, all lorins (20-52)	100.7	07.0	06.4	05 K	05.8
Dighetes mellitus (50)	21 7	20.3	19 1	18.8	19.4
27 States (population July 1, 1932, 92,110,000):					
Diarrhea and enteritis under 2 years (119)	10.3	14.0	17.9	16.5	19.0
Nephritis, all forms (130-132)	84.4	83.7	88.0	90.7	92. 9
26 States (population July 1, 1932, 88,866,000):	0.0				014 0
Diseases of the heart (90-95)	219.5	211.7	209.6	210.1	214. 6
Cerebral hemorrhage, apoplexy (82, a, b)	79.3	78.5	78.9	79.6	81. 9

## TABLE 1.-Summary of mortality from certain causes in a group of States, 1928-32 1

<sup>1</sup> See tables 2 and 3 for names of States included for each disease. The District of Columbia is counted as a State.

State	Death	all ca	uses, polation	er 1,000	i- Maternal mortality, per 1,000 births					
	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
Total	10. 8	11.0	11. 2	11.8	12.0	6. 1	6. 4	6. 3	6. 6	7.3
Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idabo.         Idabo.         Illinois.         Indiana.         Lowa.         Kansas.         Louisiana.         Maryland.         Michigan         Michigan         Mississippi.         Montana.         Nebraska.         New Jersey.         New Jersey.         North Carolina.         Ohio.         Pennsylvania.         South Dakota.         Tennessee.         Virginia.         West Virginia.	$\begin{array}{c} 10.\ 0\\ 10.\ 9\\ 10.\ 0\\ 10.\ 1\\ 10.\ 9\\ 9\\ 10.\ 5\\ 11.\ 2\\ 10.\ 5\\ 11.\ 2\\ 10.\ 5\\ 11.\ 2\\ 10.\ 5\\ 12.\ 6\\ 9.\ 7\\ 9.\ 2\\ 9.\ 7\\ 9.\ 2\\ 9.\ 7\\ 9.\ 2\\ 9.\ 7\\ 9.\ 2\\ 10.\ 1\\ 11.\ 1\\ 10.\ 9\\ 8.\ 2\\ 5\\ 10.\ 9\\ 10.\ 0\\ 10.\ 0\\ \end{array}$	10. 4 11. 3 10. 3 10. 6 9 11. 1 11. 3 10. 0 11. 1 11. 3 10. 0 10. 9 9. 6 9. 9 9. 7 9. 1 10. 6 10. 2 11. 1 11. 3 8. 6 7 11. 6 9. 0 10. 2 11. 1 11. 3 10. 6 10. 2 11. 1 10. 6 10. 7 10. 7 10	$\begin{array}{c} 11.\ 2\\ 11.\ 6\\ 10.\ 5\\ 2\\ 11.\ 8\\ 9.\ 7\\ 10.\ 9\\ 11.\ 6\\ 10.\ 4\\ 11.\ 8\\ 13.\ 2\\ 10.\ 6\\ 10.\ 4\\ 11.\ 3\\ 9.\ 4\\ 10.\ 7\\ 11.\ 4\\ 11.\ 4\\ 11.\ 3\\ 8.\ 5\\ 11.\ 7\\ 10.\ 4\\ 11.\ 7\\ 10.\ 4\\ 11.\ 7\\ 10.\ 3\\ 10.\ 5\ 10.\ 5\$	12.2 11.9 11.5.4 11.8 9.9.2 9.9.2 11.6 12.2 10.4 10.4 10.4 11.6 10.4 11.5 11.6 10.7 9.6 10.7 12.5 12.5 12.5 12.5 12.0 10.6 10.7	$\begin{array}{c} 12.\ 0\\ 12.\ 5\\ 11.\ 3\\ 15.\ 1\\ 12.\ 4\\ 9.\ 4\\ 12.\ 1\\ 12.\ 1\\ 12.\ 2\\ 12.\ 2\\ 12.\ 2\\ 13.\ 6\\ 11.\ 2\\ 13.\ 6\\ 11.\ 3\\ 1\\ 10.\ 7\\ 12.\ 4\\ 10.\ 5\\ 12.\ 6\\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 5\ 10.\ 10.\ 5\ 10.\ 10.\ 10.\ 10.\ 10.\ 10.\ 10.\ 10.$	$\begin{array}{c} \textbf{7.1}\\ \textbf{5.5.79}\\ \textbf{9.54}\\ \textbf{4.5.24}\\ \textbf{5.541}\\ \textbf{5.44}\\ \textbf{5.541}\\ \textbf{5.541}\\ \textbf{5.571}\\ \textbf{5.76}\\ \textbf{6.88}\\ \textbf{5.547}\\ \textbf{6.66}\\ \textbf{5.43}\\ \textbf{6.66}\\ \textbf{5.43}\\ \textbf{6.641}\\ \textbf{5.43}\\ \textbf{6.66}\\ \textbf{5.43}\\ \textbf{6.661}\\ $	7.4 6.3 6.81 10.0 2.6 5.9 4.8 8.9 6.9 5.9 6.5 9 5.9 6.7 7.8 6.7 4.8 7.4 5.9 5.7 8 6.7 4.2 5.4 5.4 5.4 5.4 5.4 5.5 7.4 5.4 5.4 5.4 5.5 5.5 5.5 5.5 5.5 5.5 5	$\begin{array}{c} 8.1\\ 5.3\\ 9.1\\ 10.6\\ 4.4\\ 9.1\\ 5.8\\ 7.0\\ 9.8\\ 5.3\\ 5.6\\ 5.3\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.6\\ 7.6\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5$	8.3 5.2 5.9 1.0.4 6.1 10.4 6.8 7.04 6.1 10.5 6.6 1.5 5.6 5.3 5.5 7.5 6.5 5.5 8.5 5.3	8.26 5.685 8.57 6.534 11.55 6.57 11.55 6.4.8 7.50 5.882 6.93 5.93 5.9 5.59 5.59
Hawaii	9.7	9.8	10. 4	12. 2	11.8					

## TABLE 2.--Mortality in certain States, 1928-32

Infant mortality rate per 1,000 live births

State		Total i	nfant m	ortality	All except malformations and early infancy						
	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928	
Total	58	61	62	66	74	26	28	28	32	35	
Alabama. California. Connecticut. District of Columbia. Georgia. Idabo. Illinois. Indiana. Iowa. Kansas. Louisiana. Maryland. Michigan. Minnesota. Montana. New Jersey. New Jersey.	61 53 51 73 558 526 565 58 526 566 666 670 543 49 43 49 43 53 50 50 59 59 59	655 577 566 711 699 599 569 569 569 569 561 488 688 68 477 577 577 577 577 579 565 570	73 59 60 70 78 51 56 58 56 56 56 56 63 47 73 63 47 59 49 57 58 77 58 71	74 63 68 69 76 55 55 61 66 65 52 57 76 80 67 48 80 67 48 80 67 48 80 67 79 66 79 67 79 56 71 57	75 62 63 65 82 59 64 64 64 54 59 79 80 69 54 61 53 65 65 86 65 86 86 86 86 88 88 88 88 88 88 88 88 88	36 23 33 22 21 26 35 22 15 15 22 25 22 26 31 23 24	40 26 35 27 25 28 22 19 40 45 22 17 19 33 226 34 34 28 44	45 29 36 24 23 26 22 22 49 38 27 17 17 19 26 25 30 26 44	44 32 25 26 31 21 26 48 42 31 18 23 	48 33 25 27 29 39 20 29 49 38 26 21 21 21 21 21 31 	
Virginia West Virginia Wisconsin Hawaii	66 78 51 76	72 77 53 75	71 81 56 82	74 78 61 101	76 70 61	40 19	38 20	44 23	41 27	34 25	

State		Typh	oid feve	er (1, 2)		Dia	rrhea ar y	nd enter ears (11	itis und 9)	ler 2
	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
Total	8.2	3.8	4.0	3.6	4.2	10.3	14.0	17.9	16. 5	19. 0
Alabama. California. Connecticut. District of Columbia. Georgia. Idaho. Illinois. Indiana. Iowa. Kanasas. Louisiana. Maryland. Minesota. Minnesota. Minnesota. Montana. Nebraska. New Jersey. New York. North Carolina. Ohio. Pennsylvania. Bouth Carolina. South Carolina. Bouth Carolina. South Carolina. Bouth Carolina. South Carolina. Bouth Carolina. Wisconsin. Hawaii. Industrial policy holders, Met- ropolitan Life Insurance Co., aces 1 and over 1.	4.9 1.36 1.4 12.6 8.33 1.7 10.8 3.0 1.7 10.8 3.0 1.7 1.7 10.8 3.0 1.7 1.7 1.7 1.8 3.0 1.1 1.7 1.7 1.7 1.7 1.7 1.7 1.7	6.96 1.00 3.97 18.66 1.58 1.42 14.55 1.4 2.22 1.70 1.11 2.41 2.27 1.01 1.11 2.41 2.27 7.3 12.6 2.27 1.70 2.6 2.4	7.9 1.9 3.3 16.4 4.7 1.9 3.7 1.6 3.7 1.6 3.7 1.6 1.8 1.0 10.2 3.6 4.7 1.9 3.7 1.6 3.3 1.6 1.7 6.4 1.8 1.0 10.2 2.5 8 16.1 1.1 2.2 2.4 2.4	7.5 1.9 2.7 1.6 2.3 2.2 10.6 4.3 2.2 10.6 4.3 2.2 10.6 4.3 2.2 10.6 4.3 2.2 1.5 2.2 1.6 4.3 2.2 2.2 1.6 4.3 2.2 2.2 2.2 1.6 4.3 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	9.4 2.6 3.1 3.6 2.2 4.4 2.3 2.4 4.2 3.2 4.4 2.4 4.2 3.2 4.4 2.4 4.2 3.2 4.4 2.4 4.2 3.2 4.4 2.4 4.2 3.2 4.4 2.4 4.1 2.5 1.6 6.0 2.1 0.1 8.6 6.2 2.4 4.1 2.5 3.0 0.1 1.5 6.6 2.2 4.4 2.4 4.1 2.5 3.0 0.1 1.5 6.6 2.2 4.4 2.4 4.1 2.5 3.0 0.1 1.5 6.6 2.2 4.4 2.4 4.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 1.5 5.1 2.5 5.1 1.5 5.1 2.5 5.1 2.5 5.1 1.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.1 2.5 5.5 7.5 5.5 7.5 5.5 7.5 5.5 7.5 7.5 7	15.4 8.2 4.1 16.0 18.2 2.0 6.9 11.4 3.1 7.2 14.0 20.3 6.3 3.9 10.9 5.0 4.9 5.0 4.9 5.6 6.4 16.8 9.2 12.3 6.4 14.8 48.9.2 12.3 6.4 45.7 4.6	$\begin{array}{c} 20.6 \\ 11.5 \\ 7.9 \\ 16.7 \\ 18.8 \\ 4.7 \\ 3.9 \\ 13.1 \\ 5.9 \\ 8.1 \\ 22.4 \\ 31.3 \\ 9.2 \\ 4.4 \\ 10.0 \\ 7.1 \\ 1.4 \\ 4 \\ 10.0 \\ 7.1 \\ 1.4 \\ 4 \\ 22.5 \\ 5.9 \\ 11.4 \\ 49.3 \\ 5.9 \end{array}$	31. 2 14. 8 10. 7 19. 9 24. 8 4. 7 5. 9 24. 8 4. 7 5. 9 18. 4 6. 6 12. 1 30. 0 14. 4 6. 8 15. 0 14. 4 6. 8 15. 0 14. 4 6. 8 11. 5 11. 6 29. 7 16. 4 29. 7 16. 4 17. 19 29. 10 19. 9 24. 8 20. 10 19. 9 24. 8 20. 10 19. 9 24. 8 20. 10 19. 9 24. 8 20. 10 20. 10 20	25.8 16.3 14.0 18.4 17.9 8.3 12.2 16.9 3.0 4 26.3 332.5 16.0 4.1 19.2 10.6 6.6 6.6 6.6 6.5 12.2 11.9 3.0 1 1.2 5 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 5.5 23.9 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19	322 6 15. 6 6. 9 14. 6 6. 9 14. 7 17. 7 6. 1 17. 7 17. 7 6. 1 17. 7 17. 7 19. 19 19. 19 19 19. 19 19
	1.1	4. 1 	analar (	2. I			Wheen	ing gou	rh (θ)	
State	1932	1931	1930	1929	1928	1932	1931	19 <b>30</b>	1929	1928
Total	1. 5	2.5	2.9	2.4	4.7	4.2	3.6	4.3	5.8	5.2
Alabama. California. Connecticut. District of Columbia. Georgia. Idaho. Illinois. Indiana. Iows. Kansas. Louisiana. Maryland. Michigan. Michigan. Michigan. Michigan. Mississippi. Montana. New Jersey. New Jersey	29 1.02 .52 .64 .1.3 1.1 1.3 65 .1 2.1 1.0 6 1.8 2.1 1.0 1.6 1.8 2.1 1.0 6 .9 9.8 1.4 6.6	$\begin{array}{c} \textbf{6}, \textbf{4} \\ \textbf{6}, \textbf{2}, \textbf{1}, \textbf{4}, \textbf{2}, \textbf{2}$	$\begin{array}{c} 3.1\\ 3.5\\ 3.2\\ 4.4\\ 2.09\\ 1.91\\ 1.91\\ 4.7\\ 3.1\\ 4.7\\ 3.1\\ 2.2\\ 2.3\\ 1.\\ 2.2\\ 3.99\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4\\ 3.4$	$\begin{array}{c} 2 & 4 \\ 3 & 3 \\ (3) \\ 1 & 0 \\ 2 & 6 \\ 3 & 1 \\ 4 \\ 2 & 4 \\ 3 & 1 \\ 2 & 4 \\ 3 & 1 \\ 2 & 4 \\ 3 & 1 \\ 2 & 4 \\ 3 & 1 \\ 2 & 4 \\ 3 & 2 \\ 1 & 6 \\ 3 & 8 \\ 1 \\ 2 & 1 \\ 0 \\ 1 & 6 \\ 2 & 7 \\ 5 \\ 0 \end{array}$	$\begin{array}{r} 8,7\\ 3.86\\ 5.5\\ 1.1\\ 2.5\\ 1.0\\ 8.6\\ 6.5\\ 14.6\\ 1.7\\ 6.4\\ 7\\ 16.6\\ 2.2\\ 16.1\\ 1.8\\ 6.1\\ 5.2\\ 3\\ 3\\ 3\\ 2.3\\ \end{array}$	$\begin{array}{c} 7.4\\ 2.9\\ 2.0\\ 3.8\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\$	3.24 2.57 3.83 6.24.24.24.34 1.34.57.3.21.49 3.257.4.24.134 3.257.4.234 3.257.4.234 3.257.4.235 5.56.6.24.13 5.56.6.24.13 5.57.1.33 5.57.1.23.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25 5.57.1.25	$\begin{array}{c} 9.5\\ 5.5\\ 2.07\\ 9.03\\ 4.20\\ 3.37\\ 5.5\\ 5.4\\ 4.3.6\\ 6.9\\ 3.22\\ 8.5\\ 3.39\\ 10.87\\ 6.8\\ 3.5\\ 10.23\\ 3.5\\ 10.23\\ 3.5\\ 10.23\\ 3.5\\ 10.23\\ 3.5\\ 10.23\\ 5.5\\ 10.23\\ 3.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 5.5\\ 10.23\\ 10.23\\ 5.5\\ 10.23\\$	$\begin{array}{r} 9.2\\ 5.0\\ 2.50\\ 2.50\\ 9.4\\ 3.34\\ 5.4\\ 1\\ 3.9\\ 5.4\\ 5.4\\ 9.4\\ 3.36\\ 7.9\\ 3.36\\ 7.9\\ 3.36\\ 7.9\\ 10.8\\ 8.00\\ 12.8\\ 8.9\\ 27.9\\ 10.8\\ 8.9\\ 27.9\\ 10.8\\ 8.9\\ 27.9\\ 10.8\\ 8.9\\ 27.9\\ 10.8\\$	$\begin{array}{c} 7.7 & 4 & 4 & 6 \\ 6.6 & 6 & 3.4 & 3.2 \\ 5.0 & 8.8 & 3.7 & 3.2 \\ 5.0 & 8.8 & 4.6 & 0.2 \\ 9.1 & 2.1 & 9.2 \\ 9.1 & 2.4 & 7.7 & 5.2 \\ 10.0 & 0.2 & 7.7 & 5.2 \\ 3.2 & 3.3 \\ 10.0 & 0.2 \\ $
ropelitan Life Insurance Co.,	14	2.6	2.3	2.4	4.2	1.4	1.7	1.9	3.0	2.7

## TABLE 3.—Death rates for various causes per 100,000 population

<sup>1</sup> The Metropolitan Life Ins. Co. data for diarrhea and enteritis include adults as well as children under 2 years. <sup>2</sup> No deaths.

	Sca	rlet fev	er (8)			Dig	ohtheria	(10)	
1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
- 2.0	2.1	1.9	2.1	1.9	3. 8	4.1	4.6	6.4	7.2
$\begin{array}{c} 1.3\\\\\\\\\\\\\\\\$	1.19 .77 1.522 4.52 4.52 4.52 4.52 4.52 4.52 4.52	1.4 1.6 2.3 2.0 2.5 2.1 2.5 1.1 2.5 1.1 2.6 1.1 2.6 1.1 1.2 2.6 1.1 1.2 2.5 1.1 1.2 2.5 1.5 1.1 1.3 0.0 2.5 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1.47 .99 2.33 .99 3.22 2.3.63 2.3.06 2.3.06 3.08 3.11 1.47 2.25 (?) 2.7 (?) 2.7	1.0 1.3 1.5 1.5 1.5 1.5 1.5 2.5      	7.53 3.02 3.02 3.10 3.527 3.10 3.5239 6.51 3.299 4.2315 3.499 4.2325 3.499 4.2325 3.499 4.292 5.329 1.48 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.	7.69 2.81 7.50 2.4.7 1.05 4.05 4.05 4.05 4.05 4.05 2.23 8.63 2.23 8.63 2.23 8.53 8.53 8.53 4.3 4.3 4.3 4.3 4.3 4.3 5.55 7.23 8.53 4.3 4.5 5.55 7.23 8.53 7.50 8.53 8.53 8.53 7.50 8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53	$\begin{array}{c} 7.1 \\ 3.4 \\ 2.07 \\ 3.4.5 \\ 3.11 \\ 1.86 \\ 5.04 \\ 1.86 \\ 0.03 \\ 3.27 \\ 9.8 \\ 2.79 \\ 2.8 \\ 5.7 \\ 2.96 \\ 6.1 \\ 6.2 \\ 4.1 \\ 1.3 \\ 5.7 \\ \end{array}$	$\begin{array}{c} 9.6\\ 3.4\\ 3.99\\ 7.00\\ 2.39\\ 9.4.3\\ 3.66\\ 4.5\\ 6.6\\ 10.66\\ 7.1\\ 1.36\\ 6.6\\ 1.26\\ 1.2\\ 5.3\\ 11.2\\ 8.6\\ 1.6\\ 4.5\\ 8.8\\ 8.6\\ 1.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8.6\\ 8$	9 2 0 6 0 6 0 6 0 8 1 3 0 6 8 8 1 8 7 7 2 7 7 8 3 7 0 6 8 3 7 7 0 8 1 1 8 7 7 7 3 3 7 0 0 6 8 3 7 7 7 7 8 3 7 7 0 8 8 8 6 6 3 7 7 7 7 7 8 3 7 7 8 3 7 7 7 7 8 3 7 7 7 7 8 3 7 7 7 7 7 7 8 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	Polio	myeliti	s (16)		Men	ingococ	cus me	ningitis	(18)
1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
0.7	1.9	1.1	0.7	1.1	1.3	1. 2	3.1	3.9	2.4
.22 .54 .29 .22 .52 .52 .55 .45 .55 .19 1.44 .54 .61 .67 .45 .81 .91 .45 .45 .54 .54 .55 .55 .45 .55 .45 .55 .45 .55 .5	.89 .89 .1.1.69 .2244895268093964468 .1.2.9.1.68 .1.68	.882. 1.2.2 1.37 1.77 3.23 .48 .10 .11 .77 .77 3.23 .4 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	1.0 .5 .87 1.4 .33 .56 .20 .6 .6 .6 .5 .62 1.2 .9 .4 1.1 .9 .6 .5 .12 .12 .12 .12 .12 .12 .12 .12	.8 1.8 1.0 7.5 5.2 .5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	$\begin{array}{c} .6\\ 1.4\\ .2.6\\ .3.1\\ 2.09\\ .9\\ 1.32\\ 1.1\\ 1.3\\ .9\\ 1.03\\ .5\\ .5\\ .83\\ 1.4\\ 1.4\\ 1.1\\ .9\\ 2.9\\ \end{array}$	32.577892563384 1.21.21.21.21.21.21.21.21.2.1.21.2.1.2.	1589 2009 2369 2363 2363 2363 2363 2363 2363 236	$\begin{array}{c} 1.09\\ 6.94\\ 2.23\\ 3.37\\ 1.2.87\\ 1.2.87\\ 1.88\\ 1.98\\ 2.2.8\\ 1.98\\ 1.98\\ 2.2.8\\ 1.98\\ 1.98\\ 2.2.8\\ 1.2$	$\begin{array}{c} .7222\\ .7222\\ .0000\\ .0$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sca           1932         1931           -         2.0         2.1           -	Scarlet fev.           1932         1931         1930           -         2.0         2.1         1.9           -         1.3         1.1         1.4           .9         .9         1.2         .7           1.6         1.6         1.6         1.3           .9         9         1.2         .7           1.6         1.6         1.5         1.3           .9         2.2         2.0         3.4         5           .1.7         1.2         2.4         6         .5           .1.7         1.2         2.4         4           .9         1.9         2.1         .2         2.3           .1.6         1.6         2.5         .6         .5         .6           .1.7         1.2         2.4         .7         .6         .5         .6           .1.5         1.9         2.8         .20         1.5         2.2         .3         .3         .2           .1.5         1.9         2.8         .3         .2         .6         .6         .6         .6         .6         .6         .6         .6         .6         .6 <td>Scarlet fever (3)           1932         1931         1930         1929           -         2.0         2.1         1.9         2.1           -         3         1.1         1.4         1.4           -         9         9         2.1         1.9           -         1.3         1.1         1.4         1.4           -         9         9         2.1.7         1.6         .9           -         6         1.5         1.3         1.3         1.3           -         9         2.2         2.0         9         3.3         4.5         3.9         3.9           -         2.6         3.4         2.1         3.2         3.9         2.2         2.0         9         3.1         1.6         1.2         1.3         1.3           -         1.6         1.6         2.5         2.2         1.3         3.0         2.6         3.1         1.2         3.3         2.6         2.2         2.8         3.0         2.6         3.3         1.1         1.4         1.1         1.6         2.4         1.6         1.4         1.1         1.5         2.1         3.0</td> <td>Scarlet fever (8)           1932         1931         1930         1929         1928           -         2.0         2.1         1.9         2.1         1.9           -         1.3         1.1         1.4         1.4         1.4           -         9         9         1.2         1.7         1.0           -         1.2         .7         1.6         .9         1.3           -         6         1.5         1.3         1.3         1.1           -         1.9         2.2         2.0         .9         2.7           3.3         4.5         3.9         2.1         3.2         2.2           1.7         1.2         2.4         3.3         2.7           .4         .7         .6         .6         .5           1.9         1.9         2.1         2.8         .0         1.9           2.2         2.3         2.7         3.0         4.0           1.6         .9         1.4         2.6         2.4         .0           2.0         1.5         2.8         3.0         1.9         2.5         2.6           .5</td> <td>Scarlet føver (8)           1932         1931         1930         1929         1928         1932           -         2.0         2.1         1.9         2.1         1.9         3.8           -         1.3         1.1         1.4         1.4         1.4         7.5           -         9         9.2         1.7         1.0         3.3         1.0           2.6         1.6         2.3         2.3         1.5         3.2          6         1.6         2.2         2.2         2.3         1.5          7         1.9         2.2         2.2         2.3         1.5          6         1.6         2.4         3.2         2.7         3.1           3.3         4.5         3.9         3.9         2.1         3.0          6         .6         .6         .5         6.5         5         1.6         2.2         2.2         3.3           1.6         .9         1.4         2.6         2.4         .9         .5         4.0         2.1         1.1         1.6         2.3         .8         0.40         2.1         .5         1.1         1.6</td> <td>Dig           1932         1931         1930         1929         1928         1932         1931           -         2.0         2.1         1.9         2.1         1.9         3.8         4.1           -         1.3         1.1         1.4         1.4         .4         7.5         7.6          9         .9         1.2         1.7         1.0         3.3         2.9          6         1.5         1.3         1.3         1.6         8.2         7.1          6         1.5         1.3         2.3         1.6         8.2         7.1          6         1.5         1.3         2.1         3.0         4.7          7         1.6         2.9         2.2         2.3         1.7          7         1.6         2.5         2.2         2.2         2.3         1.7          7         1.6         .9         1.4         2.6         2.4         .9         1.4          5         .6         .6         .6         .6         .6         .6         .6         .6         .2         2.3         .2         .2         .2         .3</td> <td>Diphtheria           1932         1931         1930         1929         1928         1932         1931         1930           -         2.0         2.1         1.9         2.1         1.9         3.8         4.1         4.6           -1.3         1.1         1.4         1.4         .4         7.5         7.6         7.1           -9         9.2         1.7         1.0         3.3         2.9         3.7         3.7         3.7           -6         1.5         1.3         1.3         1.1         5.7         5.0         4.5           -7         1.6         .9         1.3         1.0         .8         2.0           -1.9         2.2         2.0         .9         7.8         1.5         5.7           -6         1.5         1.3         2.2         2.0         1.4         5.6         5.6           -1.9         2.2         2.3         2.7         3.0         4.7         7.1           -1.5         1.6         2.2         2.3         2.7         3.0         4.7         7.3           -1.6         .5         1.4         2.6         2.4         3.9<td>Diphtheria (10)           1932         1931         1930         1929         1928         1932         1931         1930         1929           2.0         2.1         1.9         2.1         1.9         3.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         1.4         7.5         7.6         7.1         9.6           2.0         2.1         1.9         2.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         7.5         7.6         7.1         9.6           2.6         1.0         2.3         2.5         1.5         8.7         7.6         7.1         9.6           3.8         4.5         3.9         2.21         8.0         4.7         7.1         8.9           1.6         1.6         2.5         2.2         2.3         1.7         8.1         4.0         8.4         4.5           1.6         1.9         2.4         3.3         2.6         4.6         7.1         8.6           1.6         1.9         2.8         3.0         1.9         9         1.7         7.7</td></td>	Scarlet fever (3)           1932         1931         1930         1929           -         2.0         2.1         1.9         2.1           -         3         1.1         1.4         1.4           -         9         9         2.1         1.9           -         1.3         1.1         1.4         1.4           -         9         9         2.1.7         1.6         .9           -         6         1.5         1.3         1.3         1.3           -         9         2.2         2.0         9         3.3         4.5         3.9         3.9           -         2.6         3.4         2.1         3.2         3.9         2.2         2.0         9         3.1         1.6         1.2         1.3         1.3           -         1.6         1.6         2.5         2.2         1.3         3.0         2.6         3.1         1.2         3.3         2.6         2.2         2.8         3.0         2.6         3.3         1.1         1.4         1.1         1.6         2.4         1.6         1.4         1.1         1.5         2.1         3.0	Scarlet fever (8)           1932         1931         1930         1929         1928           -         2.0         2.1         1.9         2.1         1.9           -         1.3         1.1         1.4         1.4         1.4           -         9         9         1.2         1.7         1.0           -         1.2         .7         1.6         .9         1.3           -         6         1.5         1.3         1.3         1.1           -         1.9         2.2         2.0         .9         2.7           3.3         4.5         3.9         2.1         3.2         2.2           1.7         1.2         2.4         3.3         2.7           .4         .7         .6         .6         .5           1.9         1.9         2.1         2.8         .0         1.9           2.2         2.3         2.7         3.0         4.0           1.6         .9         1.4         2.6         2.4         .0           2.0         1.5         2.8         3.0         1.9         2.5         2.6           .5	Scarlet føver (8)           1932         1931         1930         1929         1928         1932           -         2.0         2.1         1.9         2.1         1.9         3.8           -         1.3         1.1         1.4         1.4         1.4         7.5           -         9         9.2         1.7         1.0         3.3         1.0           2.6         1.6         2.3         2.3         1.5         3.2          6         1.6         2.2         2.2         2.3         1.5          7         1.9         2.2         2.2         2.3         1.5          6         1.6         2.4         3.2         2.7         3.1           3.3         4.5         3.9         3.9         2.1         3.0          6         .6         .6         .5         6.5         5         1.6         2.2         2.2         3.3           1.6         .9         1.4         2.6         2.4         .9         .5         4.0         2.1         1.1         1.6         2.3         .8         0.40         2.1         .5         1.1         1.6	Dig           1932         1931         1930         1929         1928         1932         1931           -         2.0         2.1         1.9         2.1         1.9         3.8         4.1           -         1.3         1.1         1.4         1.4         .4         7.5         7.6          9         .9         1.2         1.7         1.0         3.3         2.9          6         1.5         1.3         1.3         1.6         8.2         7.1          6         1.5         1.3         2.3         1.6         8.2         7.1          6         1.5         1.3         2.1         3.0         4.7          7         1.6         2.9         2.2         2.3         1.7          7         1.6         2.5         2.2         2.2         2.3         1.7          7         1.6         .9         1.4         2.6         2.4         .9         1.4          5         .6         .6         .6         .6         .6         .6         .6         .6         .2         2.3         .2         .2         .2         .3	Diphtheria           1932         1931         1930         1929         1928         1932         1931         1930           -         2.0         2.1         1.9         2.1         1.9         3.8         4.1         4.6           -1.3         1.1         1.4         1.4         .4         7.5         7.6         7.1           -9         9.2         1.7         1.0         3.3         2.9         3.7         3.7         3.7           -6         1.5         1.3         1.3         1.1         5.7         5.0         4.5           -7         1.6         .9         1.3         1.0         .8         2.0           -1.9         2.2         2.0         .9         7.8         1.5         5.7           -6         1.5         1.3         2.2         2.0         1.4         5.6         5.6           -1.9         2.2         2.3         2.7         3.0         4.7         7.1           -1.5         1.6         2.2         2.3         2.7         3.0         4.7         7.3           -1.6         .5         1.4         2.6         2.4         3.9 <td>Diphtheria (10)           1932         1931         1930         1929         1928         1932         1931         1930         1929           2.0         2.1         1.9         2.1         1.9         3.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         1.4         7.5         7.6         7.1         9.6           2.0         2.1         1.9         2.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         7.5         7.6         7.1         9.6           2.6         1.0         2.3         2.5         1.5         8.7         7.6         7.1         9.6           3.8         4.5         3.9         2.21         8.0         4.7         7.1         8.9           1.6         1.6         2.5         2.2         2.3         1.7         8.1         4.0         8.4         4.5           1.6         1.9         2.4         3.3         2.6         4.6         7.1         8.6           1.6         1.9         2.8         3.0         1.9         9         1.7         7.7</td>	Diphtheria (10)           1932         1931         1930         1929         1928         1932         1931         1930         1929           2.0         2.1         1.9         2.1         1.9         3.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         1.4         7.5         7.6         7.1         9.6           2.0         2.1         1.9         2.8         4.1         4.6         6.4           1.3         1.1         1.4         1.4         7.5         7.6         7.1         9.6           2.6         1.0         2.3         2.5         1.5         8.7         7.6         7.1         9.6           3.8         4.5         3.9         2.21         8.0         4.7         7.1         8.9           1.6         1.6         2.5         2.2         2.3         1.7         8.1         4.0         8.4         4.5           1.6         1.9         2.4         3.3         2.6         4.6         7.1         8.6           1.6         1.9         2.8         3.0         1.9         9         1.7         7.7

# TABLE 3.—Death rates for various causes per 100,000 population—Continued

<sup>3</sup> No deaths.

·		In	fluenza	(11)	Pneumonia, all forms (107-109)					
State	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
Total	. 28.0	25. 7	19.1	52.8	43. 2	77.4	82.0	83, 2	92. 5	100. 2
Alabama	48.4	40.7	35.5	119.8	71.0	66.0	83.4	85.8	87.5	99.2
California	18.3	13.6	9.1	20.0	40.2	64.1	66.5	73.0	78.8	84.6
District of Columbia	15.0	17.1	13.4	38.8	17.6	125 5	140 3	87.3	142 2	122 3
Georgia	39.0	44.1	32.2	86.3	43.6	82.9	82.9	84.1	77.0	93.6
Idaho	21.0	9.2	11.2	36.7	66.6	76.7	76.5	104.0	61.9	68.4
Illinois	24.0	20.3	11.7	34.5	34.7	67.4	69.1	63.5	81.9	103.1
Indiana	42.1	33.3	19.7	59.2	59.6	84.1	82.3	83.5	98.8	103.9
Kansas	41.6	30.0	29.3	51.3	81.2	53.5	51.5	54.2	58.0	62.5
Louisiana	52.4	42.1	39.9	79.1	62.0	75.5	81.4	91.5	85.9	96.0
Maryland	20.1	20.6	10.3	42.5	19.1	103.0	126.3	118.2	137.6	127.9
Michigan Minperote	22.2	10.5	11.9	37.3	35.4	63.3	60 1	08.2	88.8	93.0
Mississinni	40.5	37.5	29.3	105.6	83.9	48.3	56.3	60.9	62.7	90.1
Montana	41.6	32.7	22.9	42.4	67.8	63.6	70.3	80.2	81.9	84.9
Nebraska	36.9	21.8	17.7	45.9	63.8	62.0	54.3	64.0	60.1	71.4
New Jersey	14.0	13.6	8.9	25.2	15.7	61.3	105 6	101 0	103.5	81. I
North Carolina	20.5	33.4	24.4	78.2	45.2	80.7	87.1	92.9	90.3	93.5
Ohio	34.1	28.8	19.4	59.6	51.7	76.8	77.9	74.6	91.2	98.9
Pennsylvania	29.3	28.1	19.8	56.1	43.4	81.5	97.2	92.4	106.4	122.0
South Carolina	50.8	65.9	49.7	80.4	76.6	99.0	104.8	102.4	97.0	113. Z
Tennessee	54.1	37.0	31.3	106.1	67.9	87.1	84.5	88.9	91.5	98.3
Virginia	37.3	47.2	29,4	91.9	47.2	71.5	80.6	83.7	76.2	84.1
West Virginia	46.9	33.8	27.8	91.2	59.1	78.3	82.5	91.5	79.5	71.9
Wisconsin Hewaii	28.5	18.1	30.7	42.3	44.3	100.1	102 3	119 2	141 1	148 7
Industrial policyholders. Met-	11.0	1.0	10.0	11.0	27. 1	100.1	102. 0	110. #		
ropolitan Life Insurance Co.,										
ages 1 and over	17.6	19.2	13.2	37.7	22.0	56.8	62.1	62.7	74.0	72.8
			-							
	Tuberculosis, all forms (23-32)						Can	cer (45-	-53)	
State		1								
	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
Total	60. 4	64.8	68.2	72.8	77.3	100. 7	97.6	96. 5	95. 5	95. 8
Alabama	77.2	86.3	86.0	85.7	89.6	55.5	54.3	53. 8	51.3	50.3
California	81.0	88.9	98.3	106.3	115.1	120.2	124.2	125.7	118.4	121.3
Connecticut	48.2	52.1	58.8	63.5	69.4	117.8	112.9	114.0	116.0	111.7
Georgia	121.0 65.5	72.9	73.4	74 0	82 1	140.7 52.2	130. 2	52 2	48.8	52.3
Idaho	28.6	29.8	32.9	42.5	37.4	76.6	66.4	61. 4	78.8	74.3
Illinois	54.1	59.1	59.6	68.8	73.4	114.4	112.7	112.0	107.2	106.4
Indiana	57.3 98.9	57.0 98.5	03.0	70. Z 32. 6	70.0	105.2	112 0	110.8	107.8	112.0
Kansas	32.5	37.0	36.8	37.8	40.0	104.2	97.0	96.4	92.6	99.1
Louisiana	72.7	81.5	84.1	86.3	87.7	67.1	68.2	68.0	64.4	64.7
Maryland	90.2	95.7	98.9	104.6	105.8	116.1	111.6	111.26	109.8	114.4
Minnesota	48.2	40 0	09.8 46.3	54 5	56 0	<b>93.3</b> 124 2	121 3	119.1	113.9	114.1
Mississippi	62.6	72.1	78.4	74.2	95.6	50.2	48.7	46.8	44.5	52.3
Montana	55.0	61.3	62.3	65.7	66.2	92.9	74.5	78.9	87.5	83.2
Nebraska	20.3	24.6	24.5	29.9	26.3	100.6	98.5	100.9	94.5	90.0
New York	62 A	66 A	71 0	74 8	82.7	124 1	123.8	122.7	121.8	126.7
North Carolina	65.5	69.4	74.7	83.3	78.1	46.2	48.2	47.9	51.2	49.6
Ohio	54.9	62.0	63.0	69.8	73. 3	110.5	100.8	105.2	104.6	106.1
Pennsvivania		5-R 4	59.9	66.1	71.4	102.1	98.9	94.9	105.0	102.4 44 A
South Caroline	52.5	70 7	76 5	79 1 1	Q A 1					
South Carolina	52, 5 65, 5 45, 1	70.7 43.7	76.5 48.6	78.1 53.9	85.4 66.0	41.0 80.7	82.7	72.9	68.0	71.8
South Carolina South Dakota Tennessee	52. 5 65. 5 45. 1 94. 7	70. 7 43. 7 107. 2	76.5 48.6 115.7	78.1 53.9 120.3	85.4 66.0 129.6	41.0 80.7 56.8	57.1	59.1 72.9 58.2	68.0 58.0	71.8 58.3
South Carolina South Dakota Tennessee Virginia	52. 5 65. 5 45. 1 94. 7 81. 0	70. 7 43. 7 107. 2 87. 0	76.5 48.6 115.7 85.0	78. 1 53. 9 120. 3 91. 4	85.4 66.0 129.6 103.8	41. 0 80. 7 56. 8 67. 9	82.7 57.1 64.3	59.7 72.9 58.2 61.6	68.0 58.0 62.8	71.8 58.3 70.0
South Carolina South Dakota Tennessee Virginia West Virginia Wisconsin	52.5 65.5 45.1 94.7 81.0 55.4	70. 7 43. 7 107. 2 87. 0 59. 8	76.5 48.6 115.7 85.0 65.4	78.1 53.9 120.3 91.4 68.0	85. 4 66. 0 129. 6 103. 8 73. 0	41.0 80.7 56.8 67.9 62.0	82.7 57.1 64.3 57.7	59.7 72.9 58.2 61.6 59.4	68.0 58.0 62.8 57.9	71.8 58.3 70.0 62.8 112 2
South Carolina South Dakota Tennessee Virginia West Virginia Wisconsin Hawaii	52.5 65.5 45.1 94.7 81.0 55.4 44.9 94.3	70. 7 43. 7 107. 2 87. 0 59. 8 48. 1 98 2	76.5 48.6 115.7 85.0 65.4 50.5 102.3	78.1 53.9 120.3 91.4 68.0 53.3 110.4	85.4 66.0 129.6 103.8 73.0 56.5 124.0	41.0 80.7 56.8 67.9 62.0 116.4 71.5	57. 7 57. 7 57. 7 115. 8 57. 7	39.7 72.9 58.2 61.6 59.4 112.8 59.6	42.5 68.0 58.0 62.8 57.9 110.0 64.5	71.8 58.3 70.0 62.8 112.2 62.2
South Carolina South Dakota Tennessee Virginia West Virginia Wisconsin Hawaii. Industrial policyholders, Met- ropolitan Life Insurance Co., ages 1 and over	52. 5 65. 5 45. 1 94. 7 81. 0 55. 4 44. 9 94. 3 70. 1	70. 7 43. 7 107. 2 87. 0 59. 8 48. 1 98. 2 76. 7	76. 5 48. 6 115. 7 85. 0 65. 4 50. 5 102. 3 81. 3	78. 1 53. 9 120. 3 91. 4 68. 0 53. 3 110. 4 87. 3	85. 4 66. 0 129. 6 103. 8 73. 0 56. 5 124. 0 90. 6	41. 6 80. 7 56. 8 67. 9 62. 0 116. 4 71. 5 92. 1	40. 3 82. 7 57. 1 64. 3 57. 7 115. 8 57. 2 85. 4	59. 7 72. 9 58. 2 61. 6 59. 4 112. 8 59. 6 79. 5	42.5 68.0 58.0 62.8 57.9 110.0 64.5 78.8	71. 8 58. 3 70. 0 62. 8 112. 2 62. 2 77. 0

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State		Diabe	etes mel	litus (59	9)	Cerebral hemorrhage, apoplexy (82, a, b)				
	1932	1931	1930	1929	1928	1932	1931	1930	1929	1928
Total	21. 7	20.3	19. 1	18.8	19.4	79. 3	78. 5	78. 9	79.6	81. 9
Alabama California Connecticut	10.5 20.8 25.1	10.8 19.2 21.9	8.8 18.1 17.9	9.0 19.0 17.5	9.7 18.9 23.4	61. 8 77. 8	61. <b>4</b> 78. 6	65. 5 81. 9	64. 5 80. 2	63. 7 86. 2
District of Columbia Georgia Idaho	28.2 11.6 12.7	25.1 10.9 12.5	26.6 11.6 7.8	27.7 10.2 12.8	27.8 11.1 11.5	107.5 80.0 79.9	105.7 84.8 95.3	99. 2 90. 1 71. 3	83.8 81.8 62.2	107.2 84.4 57.4
Illinois Indiana Iowa	26.3 15.5 16.0	25.6 16.4 19.8	22. 1 15. 7 21. 0	23.5 15.0 18.4	23.4 21.5 19.3	73.0 108.7 109.0	73.0 105.7 111.2	74.7 108.1 95.8	76.0 108.4 97.1	77.8 111.2 97.9
Kansas Louisiana Maryland	22.1 13.7 25.7	21.9 12.8 23.0	20.9 12.1 21.3	21.4 11.2 19.5	20.4 11.8 23.2	101. 2 60. 2 103. 2	94.8 57.5 108.6	99.7 61.8 105.1	108.9 60.3 102.0	113.1 64.9 102.0
Michigan Minnesota Mississippi	21.9 22.2 7.6	19.1 19.5 7.8	18.1 18.2 8.9	19.7 18.6 7.3	19.0 20.2 10.0	84.1 77.8 61.9	87.7 75.4 64.3	89.9 79.5 66.6	93.6 75.3 64.9	97.0 78.3 62.3
Montana Nebraska New Jersey New Vork	15.8 22.8 26.0	15.4 21.2 23.9 28.2	16. 2 20. 6 23. 1 26. 9	15. 2 21. 5 23. 0 26 2	18.0 22.4 24.5 28.4	93.0 77.3	68.0 84.4 79.4	66.6 84.5 80.4 53.2	59.1 88.4 83.4 57.4	65.6 83.3 88.6
North Carolina Ohio Pennsylvania	10.7 24.2 25.7	10.6 21.7 24.7	10.0 21.7 21.9	9.9 20.7 22.3	9.1 22.0 22.7	110.3 85.7	109.1 87.0	107.7 87.1	112.0 88.7	113.9 91.9
South Carolina South Dakota Tennessee	11. 1 17. 3 10. 1	10.3 20.6 10.6	8.9 16.9 10.8	8.6 18.8 10.2	9.0 18.2 9.4	67. 0 65. 6	64.1 60.0	61. 3 62. 9	55. 0 63. 0	55. 2 66. 4
Virginia. West Virginia. Wisconsin	15.8 13.0 22.4	14.9 11.7 22.4	14.3 12.5 20.7	11.9 9.7 19.2	12.3 11.2 22.3	91.0 76.1 87.3	97.7 67.9 85.9	95.8 63.7 85.6	89.4 49.3 91.6	92.6 59.1 90.1
Industrial policyholders, Met- ropolitan Life Insurance Co., ages 1 and over	23.3	21.4	18.7	18.6	17.9	62.8	61.3	61.3	03.9	01.9
	1									
State		Heart	diseases	(90-95)		Nephritis (130–132)				
Diale	1932	1931	1930	1 <b>929</b>	1928	1932	1931	1930	1929	1928
 Total	1932 219. 5	1931 211. 7	1930 209. 6	1929 215. 1	1928 214. 6	1932 84. 4	1931 83. 7	1930 88. 0	1929 90. 7	1928 92. 9
Total California	1932 219. 5 117. 9 252. 2	1931 211. 7 116. 9 253. 4	1930 209. 6 134. 0 239. 7	1929 215. 1 136. 2 249. 0	1928 214. 6 133. 2 242. 2	1932 84. 4 84. 7 80. 6	1931 83. 7 88. 2 80. 9	1930 88.0 100.4 84.0	1929 90. 7 95. 8 89. 2	1928 92. 9 88. 6 97. 4
Total Alabama California Connecticut District of Columbia Georgia	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5	1928 214.6 133.2 242.2 179.2 314.8 142.2	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4	1930 88.0 100.4 84.0 73.2 160.4 127.0	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5	1928 92.9 88.6 97.4 89.2 156.7 117.8
Total Alabama. California. Connecticut. District of Columbia Georgia. Idaho. Illinois.	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9 161. 2 231. 6	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5 153. 1 233. 9	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2	1930 88. 0 100. 4 84. 0 73. 2 160. 4 127. 0 39. 2 105. 8	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3	<b>92.9</b> <b>92.9</b> <b>88.6</b> <b>97.4</b> <b>89.2</b> <b>156.7</b> <b>117.8</b> <b>66.4</b> <b>116.8</b>
Total California Connecticut District of Columbia Georgia Idabo Illinois Indiana Iowa	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9 161. 2 231. 6 174. 0 198. 3	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1 182. 5 195. 8	1929 215.1 136.2 249.0 193.8 325.5 124.5 153.1 233.9 197.4 215.4	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 212. 9 189. 6 212. 9	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2 74. 3 45. 9	1930 88. 0 100. 4 84. 0 73. 2 160. 4 127. 0 39. 2 105. 8 84. 9 43. 2	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3	1928 92. 9 92. 9 97. 4 88. 6 97. 4 89. 2 156. 7 117. 8 66. 4 116. 8 81. 8 81. 8 52. 3
Total Alabama California Connecticut District of Columbia Georgia Idaho Ilinois Indiana Iowa Kansas Louisiana	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9 161. 2 231. 6 174. 0 198. 3 178. 0 182. 5	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 178. 0	1930 209. 6 134. 0 239. 7 183. 6 315. 9 178. 6 223. 1 182. 5 195. 8 171. 5 171. 5 199. 1	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5 124. 5 153. 1 233. 9 197. 4 215. 4 216. 7 161. 9	1928 214. 6 133. 2 242. 2 170. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 175. 3 183. 8	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2 74. 3 45. 9 95. 3 108. 6	1930 88.0 100.4 84.0 73.2 160.4 127.0 39.2 105.8 84.9 43.2 102.7 102.7 102.7	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3 90. 5 108. 2	1928 92.9 88.6 97.4 89.2 156.7 117.8 66.4 116.8 81.8 52.3 94.4 112.7
Total Alabama California Connecticut District of Columbia Georgia Idihois Indiana Iowa Kansas Louisiana Maryland Michigan	1932 219.5 117.9 252.2 208.1 330.6 139.9 161.2 231.6 174.0 198.3 178.0 182.5 255.9 217.9	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 202. 1 153. 9 178. 0 251. 0 204. 4	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1 182. 5 195. 8 195. 8 199. 1 245. 2 229. 6	1929 215. 1 136. 2 249. 0 193. 8 325. 5 153. 1 233. 9 197. 4 163. 7 191. 9 239. 2 239. 2 239. 2 245. 8	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 218. 6 213. 8 237. 7 218. 6	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8	1931 83. 7 88. 2 80. 9 88. 3 146. 2 74. 3 85. 9 95. 3 108. 6 139. 2 58. 8	1930 88.0 100.4 84.0 73.2 160.4 127.0 39.2 105.8 84.9 43.2 102.7 112.0 149.6 63.7	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 80. 9 49. 3 80. 9 49. 3 90. 5 108. 2 151. 0 66. 1	1928 92. 9 88. 6 97. 4 89. 2 156. 4 116. 8 81. 8 81. 8 52. 3 94. 4 112. 7 144. 6 67. 9
Total Alabama California District of Columbia Georgia Idaho Illinois Indiana Indiana Iowa Kansas Maryland Michigan Minnesota Missistioni	1932 219.5 219.5 252.2 208.1 330.6 139.9 161.2 231.6 174.0 188.5 178.0 188.5 255.9 217.9 193.6 84.2	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 178. 0 201. 4 177. 9 204. 4 177. 9 94. 3	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1 185. 8 171. 5 195. 8 171. 5 196. 1 245. 2 229. 6 173. 4 104. 3	1929 215.1 136.2 249.0 193.8 325.5 124.5 153.1 233.9 197.4 215.4 163.7 191.9 239.2 245.8 155.3 97.2	1928 214. 6 133. 2 242. 2 179. 2 314. 8 140. 7 238. 0 189. 6 212. 9 175. 3 183. 8 237. 7 218. 6 153. 8 123. 6	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 68. 7	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2 74. 3 45. 9 95. 3 108. 6 139. 2 58. 8 50. 8 84. 7	1930 88.0 100.4 84.0 73.2 160.4 127.0 39.2 105.8 84.9 43.2 102.7 112.0 149.6 63.7 52.2 97.1	90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 90. 5 108. 2 151. 0 66. 1 56. 2 95. 6	1928           92.9           88.6           97.4           89.2           117.8           66.4           112.8           94.4           112.7           144.6           67.9           57.7           113.0
Total Alabama. California. Connecticut. District of Columbia. Georgia. Idaho	1932 219.5 217.9 252.2 208.1 330.6 139.9 161.2 231.6 174.0 188.3 178.0 182.5 225.9 217.9 193.6 84.2 255.9 217.9	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 232. 1 167. 9 200. 7 153. 9 178. 0 251. 0 251. 0 204. 4 177. 9 94. 3 139. 6	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 1223. 1 182. 5 195. 8 223. 1 182. 5 195. 8 171. 5 199. 1 245. 2 229. 6 173. 4 104. 3 139. 4	1929 215.1 136.2 249.0 193.8 325.5 153.1 124.5 153.1 233.9 197.4 215.4 163.7 191.9 239.2 245.8 155.3 97.2 245.8 156.2 97.2	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 189. 6 212. 9 183. 8 237. 7 218. 6 153. 8 123. 6 153. 8 123. 6 160. 1 177. 5	1932 84. 4 84. 7 80. 6 87. 8 140. 4 140. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 68. 7 71. 4	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2 74. 3 8. 7 107. 2 74. 3 8. 7 107. 2 58. 8 50. 8 84. 7 66. 7 66. 7	1930 88.0 100.4 84.0 73.2 160.4 127.0 39.2 105.8 84.9 43.2 102.7 112.0 149.6 63.7 52.2 97.1 73.1	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3 90. 5 108. 2 151. 0 66. 1 56. 2 95. 6 68. 0	1928           92.9           88.6           97.4           156.7           117.8           66.4           16.8           81.8           94.4           112.7           114.6           67.9           57.7           113.0           61.7
Total         Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idaho         Illinois.         Indiana.         lowa.         Kansas.         Louisiana.         Maryland.         Michigan.         Minnesota.         Montana.         Nebraska.         Nebraska.	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9 161. 2 231. 6 174. 0 198. 3 178. 0 182. 5 225. 9 217. 9 193. 6 84. 2 158. 7 171. 4 231. 0	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 203. 7 153. 9 178. 0 251. 0 251. 0 254. 4 177. 9 94. 3 139. 6 159. 1 224. 3	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1 182. 5 195. 8 229. 6 171. 5 199. 1 245. 2 229. 6 173. 4 159. 4 159. 4 159. 4 232. 1	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5 153. 1 197. 4 233. 9 197. 4 215. 4 163. 7 191. 9 239. 2 245. 8 155. 3 97. 2 245. 8 155. 3 97. 2 169. 0 2166. 0	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 218. 6 153. 8 123. 6 153. 8 123. 6 160. 1 171. 5 126. 6	1932 84. 4 84. 7 80. 6 87. 8 140. 4 140. 4 140. 6 43. 3 140. 4 140. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 68. 7 71. 4 72. 0 91. 0	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 74. 3 45. 9 95. 3 108. 6 139. 2 58. 8 50. 8 84. 7 66. 9 96. 3	1930 88. 0 100. 4 84. 0 73. 2 160. 4 127. 0 39. 2 105. 8 84. 9 43. 2 102. 7 112. 0 149. 6 3. 7 52. 2 97. 1 73. 1 58. 6 102. 2	90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3 90. 5 108. 2 151. 0 66. 1 56. 2 95. 6 83. 0 68. 0 68. 5 99. 5	1928           92.9           88.6           97.4           89.2           156.7           117.8           81.8           94.4           112.7           67.9           513.0           61.7           65.2
Total         Alabama.         California.         Connecticut.         District of Columbia.         District of Columbia.         Georgia.         Idabo.         Illinois.         Indiana.         Iowa	1932 219. 5 117. 9 252. 2 208. 1 330. 6 139. 9 161. 2 231. 6 178. 0 188. 3 178. 0 188. 3 178. 0 188. 3 178. 0 188. 5 255. 9 217. 9 193. 6 84. 2 158. 7 171. 4 231. 0 294. 4 237. 5	1931 211. 7 116. 9 253. 4 203. 0. 2 132. 8 139. 2 300. 2 132. 8 139. 7 232. 1 167. 9 200. 7 153. 9 178. 0 201. 4 177. 9 24. 3 139. 6 159. 1 234. 3 288. 0 220. 3	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 223. 1 138. 0 174. 6 229. 6 171. 5 190. 1 245. 2 229. 6 173. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 225. 3	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5 153. 1 233. 9 197. 4 215. 4 163. 7 197. 4 215. 4 163. 7 191. 9 239. 2 245. 8 155. 3 97. 2 169. 2 166. 0 246. 0 246. 0 293. 3 277. 1	1928 214. 6 133. 2 242. 2 140. 7 238. 0 142. 2 140. 7 238. 0 123. 8 212. 9 175. 3 183. 8 237. 7 218. 6 153. 8 153.	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 71. 4 72. 0 91. 0 74. 8 78. 6	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 2 74. 3 45. 9 95. 3 108. 6 84. 7 85. 8 50. 8 84. 7 66. 7 67. 9 96. 3 73. 4 74. 0	1930 88. 0 100. 4 84. 0 76. 4 127. 0 37. 0 160. 4 127. 0 37. 1 122. 0 149. 6 63. 7 52. 2 97. 1 149. 6 63. 7 52. 2 97. 1 149. 6 102. 2 76. 4 102. 2 78. 4	90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 90. 5 108. 2 151. 0 66. 1 56. 2 95. 6 68. 0 68. 0 68. 0 68. 5 80. 6 84. 7	1928 92. 9 92. 9 88. 6 97. 4 89. 2 156. 7 117. 8 81. 8 52. 3 94. 4 112. 7 114. 6 67. 9 57. 7 113. 0 61. 7 65. 2 103. 4 88. 2
Total         Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idabo.         Illinois.         Indiana.         Iowa	1932 219, 5 117, 9 252, 2 208, 1 330, 6 130, 9 161, 2 231, 6 174, 0 182, 5 255, 9 217, 9 193, 6 84, 2 168, 3 178, 0 182, 5 255, 9 217, 9 193, 6 84, 2 168, 3 171, 4 231, 0 2294, 4 237, 5 238, 4	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 232. 1 167. 9 200. 7 233. 9 178. 0 251. 0 251. 0 251. 0 251. 0 251. 0 251. 0 251. 0 251. 0 253. 3 233. 5	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 138. 0 174. 6 138. 0 174. 6 138. 5 190. 1 245. 2 229. 6 171. 5 199. 1 245. 2 229. 6 173. 4 139. 4 140.	1929 215. 1 136. 2 249. 0 193. 8 325. 5 124. 5 153. 1 233. 9 197. 4 163. 7 197. 4 163. 7 197. 9 239. 2 245. 8 155. 3 97. 2 169. 2 245. 8 155. 3 97. 2 169. 2 245. 8 227. 1 236. 2	1928 214. 6 133. 2 242. 2 149. 2 140. 7 238. 0 189. 6 212. 9 175. 3 183. 8 237. 7 218. 6 153. 8 123. 6 160. 1 171. 5 288. 6 297. 9 222. 7 237. 8	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 71. 4 72. 0 91. 0 74. 8 93. 0 125. 6	1931 88. 2 80. 9 88. 3 146. 2 107. 4 38. 7 107. 2 74. 3 85. 9 95. 3 108. 6 139. 2 58. 8 50. 8 84. 7 66. 7 96. 3 77. 9 96. 3 77. 4 74. 0 92. 7 121. 2	1930 88. 0 100. 4 84. 0 73. 2 160. 4 127. 0 37. 2 160. 4 127. 0 38. 9 43. 9 43. 9 43. 9 102. 7 112. 0 63. 7 52. 2 97. 1 139. 6 63. 7 73. 1 58. 6 102. 2 77. 1 73. 1 58. 6 102. 2 77. 1 78. 4 104. 3 112. 6 105. 8 106. 4 105. 8 105. 8 105	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3 90. 5 108. 2 161. 0 66. 1 56. 2 95. 6 68. 0 68. 0 68. 0 68. 4 7 104. 8 105. 4	1928 92. 9 97. 4 88. 6 97. 4 89. 5 28. 5 28. 5 28. 5 28. 5 29. 4 116. 8 81. 8 52. 3 94. 4 112. 7 113. 0 61. 7 57. 7 85. 2 103. 4 82. 7 88. 2 113. 1 113. 1
Total         Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idabo.         Ininois.         Indiana.         Iowa	1932 219.5 219.5 208.1 330.6 1339.9 161.2 231.6 174.0 188.3 178.0 182.5 255.9 217.9 193.6 84.2 255.9 217.9 193.6 84.2 237.5 238.4 150.3 98.6	1931 211. 7 116. 9 203. 0 203. 0 203. 0 203. 0 200. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 200. 7 153. 9 200. 7 153. 9 217. 9 200. 7 153. 9 200. 7 153. 9 214. 3 234. 0 251. 0 204. 4 177. 9 94. 3 238. 6 159. 1 224. 3 238. 5 220. 3 223. 5 127. 4 108. 4	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 128. 5 195. 8 171. 5 199. 1 245. 2 229. 6 173. 4 139. 5 120. 5 120. 5 120. 5	1929 215.1 136.2 249.0 193.8 325.5 1124.5 1133.1 124.5 1133.1 233.9 197.4 215.4 163.7 191.9 239.2 245.8 155.3 97.2 169.2 166.0 246.0 293.8 277.1 236.2 227.1 236.2 215.3	1928 214. 6 133. 2 242. 2 140. 7 238. 0 142. 2 140. 7 238. 0 142. 2 140. 7 238. 0 142. 2 140. 7 238. 0 153. 8 153.	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 71. 4 72. 0 91. 0 74. 6 93. 0 125. 6 93. 0 125. 6 41. 7 6 7. 7	1931 83.7 88.2 80.9 88.3 146.2 107.4 38.7 107.2 95.3 108.6 139.2 95.3 108.6 139.2 95.3 108.6 139.2 95.3 74.3 45.9 95.3 74.3 45.9 95.3 74.3 45.9 95.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74	1930 88. 0 100. 4 84. 0 773. 2 160. 4 127. 0 39. 2 105. 8 84. 9 433. 2 102. 7 112. 0 149. 6 33. 7 52. 2 97. 1 73. 1 58. 6 102. 2 76. 4 78. 4 78. 4 78. 4 75. 9	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 90. 5 108. 2 161. 0 66. 1 56. 2 95. 6 68. 0 68. 0 68. 0 68. 0 68. 7 104. 8 105. 4 105. 4 105. 4 71. 6 105. 7 71. 6 71. 7 71. 6 71. 7 71. 6 71. 7 71. 7 71. 7 71. 7 71. 7 71. 7 71. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1928 92. 9 97. 4 88. 6 97. 4 89. 2 156. 7 117. 8 89. 2 156. 7 117. 8 81. 8 52. 3 94. 4 112. 7 144. 6 67. 9 57. 7 113. 0 61. 7 95. 7 113. 0 61. 7 88. 2 103. 4 82. 7 113. 9 113. 9
Total         Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idabo.         Ilinois.         Indiana.         Iowa.         Kansas.         Louisiana.         Maryland.         Michigan         Mississippi.         Montana.         New Jersey.         New Jersey.         New Jersey.         New Jersey.         New Jersey.         Neut Carolina.         South Dakota.         Tennescee.         Virginia.         Wort Virginia.	1932 219.5 219.5 219.5 208.1 330.6 1330.9 161.2 231.6 174.0 198.3 178.0 182.5 255.9 217.9 193.6 84.2 237.5 238.4 237.5 238.4 237.5 238.4 150.3 98.6 198.3 113.9	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 177. 9 200. 7 153. 9 177. 9 200. 7 153. 9 200. 7 153. 9 200. 7 153. 9 200. 7 153. 9 200. 7 232. 1 177. 9 9 4. 3 139. 6 220. 3 233. 5 127. 4 108. 4 188. 3 110. 4	1930 209. 6 134. 0 239. 7 183. 6 315. 9 174. 6 123. 7 138. 0 174. 6 1245. 2 195. 8 171. 5 196. 1 245. 2 229. 6 173. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 125. 3 231. 6 125. 3 231. 6 126. 3 178. 2 218. 5 120. 3 218. 5 120. 3 218. 5 225. 3 231. 6 225. 3 237. 7 25. 7	1929 215. 1 136. 2 249. 0 193. 8 325. 5 153. 1 233. 9 197. 4 215. 4 163. 7 191. 9 239. 2 245. 8 155. 3 97. 2 245. 8 155. 3 97. 2 166. 0 246. 0 293. 3 227. 1 236. 2 2126. 5 128. 5 128. 5 128. 5 128. 5 128. 7	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 175. 3 183. 8 237. 7 218. 6 163. 8 163. 8 163. 8 123. 6 160. 1 171. 5 124. 1 192. 5 124. 1 198. 5	1932 84. 4 84. 7 80. 6 87. 8 140. 4 109. 6 43. 3 108. 8 69. 7 45. 1 100. 0 102. 5 138. 4 57. 8 54. 7 71. 4 72. 0 91. 0 74. 8 69. 7 45. 1 125. 6 93. 0 125. 6 93. 0 94. 7 95.	1931 83.7 88.2 80.9 88.3 146.2 107.4 33.7 107.2 107.2 107.2 107.2 107.2 107.2 107.3 45.9 95.3 108.6 139.2 158.8 50.8 84.7 67.9 96.3 73.4 74.0 996.3 73.4 2 99.3 167.6 99.5 121.2 12 121.2 12 121.2 12 121.2 12 121.2 12 12 121.2 12 12 12 12 12 12 12 12 12 12 12 12 12	1930 88. 0 100. 4 84. 0 73. 2 160. 4 127. 0 339. 2 105. 8 84. 9 43. 2 102. 7 112. 0 149. 6 63. 7 52. 2 97. 1 73. 1 76. 4 102. 2 97. 1 76. 4 102. 2 97. 1 76. 4 112. 6 43. 2 97. 1 76. 4 112. 6 112. 6 1	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 80. 9 49. 3 90. 5 108. 2 105. 0 66. 1 56. 2 95. 6 68. 5 68. 0 68. 7 105. 4 95. 5 80. 6 84. 7 105. 4 105. 4 51. 6 105. 3 105. 4 51. 6 105. 7 105. 6 105. 7 105. 6 105. 6 105. 7 105. 6 105. 7 105. 6 105. 7 105. 7 10	1928 92. 9 97. 4 88. 6 97. 4 89. 2 156. 7 117. 8 81. 8 52. 3 94. 4 112. 7 144. 6 67. 9 57. 7 113. 0 61. 7 95. 7 113. 0 61. 7 113. 0 7 7 9 61. 7 9 7 9 61. 7 9 7 9 61. 7 9 7 9 61. 7 9 7 9 61. 7 9 7 9 61. 7 9 7 9 6 7 7 9 6 7 7 9 6 7 7 9 6 7 7 9 7 9
Total         Alabama.         California.         Connecticut.         District of Columbia.         Georgia.         Idabo.         Illinois.         Indiana.         Iowa.         Kansas.         Louisiana.         Maryland.         Michigan.         Michigan.         Mississippi.         Montana.         Nebraska.         New Jersey.         Wirginia.         West Virginia.         Wisconsin	1932 219.5 219.5 219.5 208.1 330.6 1330.9 161.2 231.6 174.0 198.3 178.0 217.9 193.6 84.2 255.9 217.9 193.6 84.2 237.5 238.4 237.5 238.4 150.3 98.6 198.3 113.0 224.4 237.5 238.4 237.5 238.4 215.2 237.5 238.4 215.2 217.4 215.2 217.4 217.4 217.4 217.4	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 177. 9 200. 7 153. 9 177. 9 94. 3 139. 6 220. 3 233. 5 127. 4 108. 4 188. 3 110. 6 203. 1	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 138. 0 174. 6 138. 0 174. 6 129. 5 195. 8 171. 5 199. 1 245. 2 229. 6 173. 4 139. 4 120. 5 121. 5 122. 5 225. 3 231. 6 225. 5 225. 3 231. 6 225. 5 225. 5 20.	1929           215.1           136.2           249.0           193.8           325.5           153.1           233.9           197.4           239.2           239.2           239.2           239.2           239.2           239.2           166.0           293.3           97.2           126.5           1239.2           166.0           293.3           227.1           236.2           128.9           128.7           128.7           128.7           128.7           212.3	1928 214. 6 133. 2 242. 2 179. 2 314. 8 142. 2 140. 7 238. 0 189. 6 212. 9 175. 3 183. 8 237. 7 218. 6 163. 8 163. 8 123. 6 160. 1 171. 5 124. 1 9 222. 7 237. 8 124. 1 198. 6 1124. 1 198. 5 117. 1 200. 0	1932           84. 4           84. 7           80. 6           87. 8           140. 4           109. 6           43. 3           106. 8           97. 45. 1           100. 0           102. 5           138. 4           54. 7           71. 4           72. 0           91. 0           74. 8           93. 0           125. 6           41. 7           67. 2           119. 5           68. 8	1931 83.7 88.2 80.9 88.3 146.2 107.4 33.7 107.2 95.3 108.6 139.2 95.3 108.6 139.2 95.3 108.6 139.2 95.3 74.3 45.9 95.3 108.6 139.2 95.3 74.3 45.9 95.3 74.3 45.9 95.3 74.3 45.9 95.3 74.3 45.9 95.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74	1930 88. 0 100. 4 84. 0 773. 2 160. 4 127. 0 39. 2 105. 8 84. 9 433. 2 102. 7 112. 0 149. 6 3. 7 52. 2 97. 1 73. 1 58. 6 63. 7 75. 9 76. 4 102. 2 76. 4 78. 4 78. 4 75. 9 108. 3 61. 3 67. 4	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 90. 5 108. 2 161. 0 66. 1 56. 2 95. 6 68. 0 68. 0 68. 0 68. 0 68. 7 105. 4 59. 5 80. 6 84. 7 105. 4 51. 7 71. 6 105. 4 53. 7 71. 6 105. 5 80. 6 80. 6 80. 7 80. 7 80. 7 90. 5 80. 6 80. 7 80.	1928 92. 9 92. 9 97. 4 88. 6 97. 4 89. 2 156. 7 117. 8 89. 2 156. 7 117. 8 81. 8 52. 3 94. 4 112. 7 144. 6 67. 9 57. 7 113. 0 61. 7 95. 7 113. 0 61. 7 88. 2 103. 4 88. 2 113. 1 91. 4 77. 3 119. 6 77. 2
Total         Alabama.         California.         Connecticut         District of Columbia.         Georgia.         Idaho.         Ininois.         Indiana         Iowa.         Kansas.         Louisiana.         Maryland.         Michigan         Michigan         Minesota.         New Jersey.         New Jersey.	1932 219.5 219.5 117.9 2268.1 330.6 1330.6 1330.9 161.2 231.6 174.0 198.3 178.0 198.3 178.0 217.9 193.6 84.2 255.9 217.9 193.6 84.2 237.5 238.4 237.5 238.4 150.3 98.6 198.3 113.0 217.4 204.4 21.5 237.5 238.4 115.3 98.6 198.3 113.0 217.4 215.2 217.9 217.10 224.4 225.5 228.4 227.5 228.4 21.0 227.5 228.4 21.0 217.9	1931 211. 7 116. 9 253. 4 203. 0 300. 2 132. 8 159. 7 232. 1 167. 9 200. 7 153. 9 177. 9 200. 7 153. 9 178. 0 204. 4 177. 9 94. 3 139. 6 159. 1 234. 3 220. 3 233. 5 127. 4 108. 4 188. 3 110. 6 203. 1 105. 7	1930 209. 6 134. 0 239. 7 183. 6 315. 9 138. 0 174. 6 138. 0 174. 6 128. 5 195. 8 171. 5 190. 1 245. 2 229. 6 173. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 139. 4 125. 3 231. 6 123. 5 120. 3 178. 2 116. 6 204. 8 121. 4	1929 215. 1 136. 2 249. 0 193. 8 325. 5 153. 1 233. 9 197. 4 215. 4 163. 7 191. 9 239. 2 245. 8 155. 3 97. 2 249. 0 246. 0 293. 8 277. 1 236. 2 243. 9 126. 5 128. 5 165. 3 17. 1 239. 2 166. 0 249. 2 166. 0 249. 2 166. 0 249. 2 128. 5 128. 5 128. 5 128. 5 128. 5 129. 2 168. 7 168. 7 17. 2 168. 7 17. 2 17. 4 293. 2 168. 7 17. 2 168. 7 17. 2 17. 4 27. 1 236. 2 128. 5 128. 5 1	$\begin{array}{c} 1928 \\ \hline \\ 214.6 \\ \hline \\ 242.2 \\ 179.2 \\ 314.8 \\ 142.2 \\ 140.7 \\ 238.0 \\ 142.2 \\ 140.7 \\ 238.0 \\ 142.2 \\ 142.2 \\ 142.2 \\ 142.2 \\ 142.2 \\ 142.2 \\ 142.2 \\ 142.2 \\ 175.3 \\ 183.8 \\ 237.7 \\ 218.6 \\ 160.1 \\ 171.5 \\ 123.6 \\ 160.1 \\ 171.5 \\ 123.6 \\ 160.1 \\ 171.5 \\ 124.1 \\ 198.5 \\ 117.1 \\ 198.5 \\ 117.1 \\ 198.5 \\ 117.1 \\ 200.0 \\ 112.9 \\ \hline \end{array}$	1932           84. 4           84. 7           80. 6           87. 8           140. 4           109. 6           43. 3           106. 8           97. 45. 1           100. 0           102. 5           138. 4           54. 7           71. 4           72. 0           91. 0           74. 8           93. 0           125. 6           41. 7           66. 5           60. 2	1931 83. 7 88. 2 80. 9 88. 3 146. 2 107. 4 33. 7 107. 2 95. 3 108. 6 139. 2 95. 3 108. 6 139. 2 95. 3 108. 6 139. 2 95. 3 74. 3 45. 9 95. 3 108. 6 139. 2 95. 3 74. 3 45. 9 95. 3 74. 3 45. 9 95. 3 74. 3 45. 9 95. 3 74. 3 75. 8 8 8 77. 4 74. 4 74. 4 74. 4 74. 4 74. 4 75. 9 95. 3 73. 4 74. 0 95. 3 73. 4 74. 0 95. 3 73. 4 74. 0 95. 3 73. 4 74. 0 95. 3 75. 4 75. 6 75. 6 75. 6 75. 6 75. 6 75. 6 75. 6 75. 6 75. 7 75.	1930 88. 0 100. 4 84. 0 773. 2 160. 4 127. 0 39. 2 105. 8 84. 9 43. 2 102. 7 112. 0 149. 6 63. 7 52. 2 97. 1 173. 1 58. 6 102. 2 76. 4 122. 6 149. 6 102. 7 58. 6 102. 2 105. 8 102. 7 112. 0 149. 6 102. 2 105. 8 102. 2 105. 8 102. 2 105. 8 102. 7 102. 2 105. 8 102. 6 103. 6 102. 2 105. 8 102. 7 102. 7 102. 9 103. 8 103. 7 103. 8 103. 7 104. 8 102. 7 105. 8 102. 9 105. 7 105. 8 102. 9 105. 7 105. 8 105. 8 105. 7 105. 8 105. 7 105. 8 105. 8 105. 7 105. 8 105. 8 105. 7 105. 8 105. 8 105. 8 105. 8 105. 8 105. 8 105. 8 105. 9 105. 8 105. 8 105. 9 105. 9 105	1929 90. 7 95. 8 89. 2 71. 1 162. 6 134. 5 61. 3 109. 3 90. 5 108. 2 161. 0 66. 1 56. 2 95. 6 68. 0 68. 0 68. 0 68. 0 68. 7 105. 4 59. 5 80. 6 84. 7 105. 4 105. 4 105. 4 6 84. 7 105. 4 80. 0 54. 3 7 71. 6 105. 4 80. 0 54. 3 80. 0 54. 3 80. 0 54. 3 80. 0 55. 8 80. 6 80. 6 80. 5 80. 6 80. 5 80.	1928 92. 9 92. 9 88. 6 97. 4 89. 2 156. 7 117. 8 81. 8 52. 3 94. 4 112. 7 144. 6 81. 8 52. 3 94. 4 112. 7 144. 6 67. 9 57. 7 113. 0 61. 7 95. 7 113. 0 61. 7 88. 2 103. 4 82. 7 113. 9 113. 1 91. 1 91. 1 91. 1 91. 1 91. 1 92. 1 93. 1 94. 1 95. 7 94. 1 94. 1 94

# TABLE 3.—Death rates for various causes per 100,000 population—Continued

# DEATHS DURING WEEK ENDED APRIL 15, 1933

[From the Weekly Health Index issued by the Bureau of the Census, Department of Commerce]

	Week ended Apr. 15, 1933	Correspond- ing week, 1932
Data from 85 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age. Deaths per 1,000 population, annual basis, first 15 weeks of year Deaths per 1,000 population, annual basis, first 15 weeks of year Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 15 weeks of year, annual rate.	7,907 11.1 543 46 12.1 68,464,541 12,859 9.8 11.0	8, 395 12.0 671 556 12.6 73, 637, 230 16, 103 11.4 10.6

1 1933, 81 cities; 1932, 80 cities.

**169378°---33----**2

# **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 22, 1933, and April 23, 1932

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Apr. 22, 1933, and Apr. 23, 1932

	Diph	theria	Influ	lenza	Me	asles	Meningococcus meningitis	
Division and State	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island	1  25 3	1 1 20 11	3 1 5	2	1 4 58 445 1	152 29 119 733 139	0 0 0 0 0	1 0 0 3 0
Connecticut	5 65 24 63	8 116 30 65	10 1 11 10	<sup>1</sup> 34 22	265 3, 126 2, 290 1, 353	160 2, 271 739 2, 265	6 0 4	0 10 1 10
Diss Note	24 17 31 17 4	32 33 73 19 15	15 18 70 6 40	20 50 124 12 101	768 205 726 986 425	1, 145 88 1, 047 1, 966 1, 055	0 2 27 0 1	2 9 6 4 0
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas South Atlantic States:	2 10 21 1 3 12 14	7 10 20 5 3 4 6	6  1	5 13  1	1, 051 14 211 73 5 22 339	22 2 109 38 11 3 549	0 2 4 0 1 5 0	1 0 1 0 0 1 0
Delaware. Maryland <sup>2</sup> . District of Columbia. Virginia. West Virginia. North Carolina <sup>3</sup> . Georgia <sup>3</sup>	7 6 4 17 10 12 7 5 7	4 16 7 10 11 6 14 20		1 51 3 131 172 1, 484 142 5	7 15 8 341 65 525 286 85 97	27 12 300 599 150 34 3	1 1 2 2 0 1 0 0 0	0 0  0 0 5 0

See footnotes at end of table.

	Diph	theria	Influ	ienza	Me	asles	Meningococcus meningitis	
Division and State	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932
East South Central States: Kentucky Tennessee Alabama Mississippi	9 11 13 3	6 11 17 8	25 52 36	178 342 140	128 69 58	82 237 21	1 0 1 0	1 4 2 0
Arkansas. Louisiana Oklahoma <sup>4</sup> Texas <sup>3</sup>	5 12 6 48	4 17 25 29	21 2 28 234	183 13 151 300	305 55 195 1, 635	6 86 38 383	0 1 4 2	4 2 0 0
Montali Otatati Montali - Idaho W yoming <sup>1</sup> Colorado New Mexico	 4 2	1 1  10 9	1 6 31 1	5  3	42 48 9 8 10	73 1 23 125 77	0 0 1 0 1	1 0 0 0
Arizona Utah <sup>3</sup> Pacific States: Washington Oregon	 2 3	7 1 4 2		6  4 40	92 7 55 87	1 1 342 293	0 0 1 0	2 0 0 0
California * Total	42 577	83 802	19 1, 002	65 3, 815	1, 229 17, 829	619 16, 175	4 75	3 74
	Poliomyelitis		Scarlet fever		Sma	llpox	Typhoid fever	
Division and State	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connectiont	000000000000000000000000000000000000000	000000000000000000000000000000000000000	34 49 12 396 32 118	41 48 14 473 63 119	0 0 0 0 0 2	0 0 4 0 0 0	3 0 5 0	1 1 1 2 2 0
Middle Atlantic States: New York	0 2 1	2 1 0	703 331 840	1, 617 304 596	0 0 0	10 0 0	12 3 3	11 1 8
East North Central States: Ohio Indiana Illinois. Michigan Wisconsin	1 0 3 0 0	0 0 1 0 0	724 152 469 493 137	280 150 442 465 63	3 2 12 0 19	13 6 3 3 0	7 1 9 4 3	11 2 2 5 1
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Veoraska	000000000000000000000000000000000000000	0 2 1 0 0	69 20 101 12 16 49 60	155 62 68 16 3 20 65	3 17 3 0 0 1	3 44 6 0 4 10 3	0 0 1 1 0 2	3 1 3 0 2 0 0
Kansas South Atlantic States: Delaware Maryland <sup>2</sup>	0000	0000	14 88 15	16 108 26	000	0 0 0	030	0 8 0
V urginia. West Virginia North Carolina. South Carolina <sup>3</sup> Georgia <sup>3</sup> Florida	0 0 1 1 0	0 0 0 0 0.	46 21 47 5 6 9	29 53 4 16 8	1 1 3 1 0	1 3 0 1 0	6 1	3 6 9 16

See footnotes at end of table.

Division and State         Week ended Apr. 22, 1933         Week ended apr. 22, 1933         Week ended apr. 22, 1933         Week ended ended apr. 22, 1933         Week ended ended apr. 23, 1932         Week ended ended apr. 23, 1933         Week ended ended apr. 23, 1933         Week ended ended apr. 23, 1933         Week ended ended apr. 23, 1933         Week ended ended apr. 23, 1933         Week ended ended apr. 23, 1933         Week ended ended ended apr. 23, 1933         Week ended ended ended ended apr. 23, 1933         Week ended endendende ended ended ended ended endedendendendende en		Polion	nyelitis	Scarle	t fever	Sma	llpox	Typhoid fever	
Bast South Central States: Kentucky	Division and State	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932	Weelr ended Apr. 22, 1933	Week ended Apr. 23, 1932	Week ended Apr. 22, 1933	Week ended Apr. 23, 1932
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	sst South Central States: Kentucky	0	0	43	92	0	1	14	0
West South Central States:       0       0       1       4       8       3         Arkansas       0       0       1       4       8       3       3         Louisiana	Tennessee Alabama Mississippi		0	47 8 4	27 14 8	1 2 0	16 25 29	4 12 3	12 13 5
International       0       3       15       15       1       3       21         Oklahoma 4       0       0       12       31       2       12       0         Texas 3       0       1       69       36       23       87       6         Mountain States:       0       0       22       13       0       5       1         I daho       0       0       0       24       5       1       1         Wyoming 4       0       0       0       12       4       0       0       0	est South Central States:					9		2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Louisiana Oklahoma 4	Ŏ	30	15 12	15 31	1 2	3 12	21 0	14 16
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ountain States:	0	1	69	36	23	87	6	6
$W \text{ voming}^{b}$	Montana <sup>4</sup> Idaho	0	0	22 0	13 4	0 5	5 1	1 1	1
Colorado	W yoming b Colorado	0	0	12 22	4 29	03	0	0	1
Arizona         0         0         10         16         1         4           Jifab 3         9         0         0         2         0         0         2         0	Arizona	0	0	10 3 1	9	ŏ		12	1
Pacific States: Washington	cific States: Washington	0	0	47	31	22	14	0	1
Oregon         0         0         30         19         2         16         1           California 4         3         5         165         182         63         16         7	Oregon California 4	Ŭ 3	0 5	30 165	19 182	2 63	16 16	1 7	4 11
Total	Total	14	17	5, 579	5, 860	201	344	161	197

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Apr. 22, 1933, and Apr. 23, 1932-Continued

New York City only.
 Week ended Friday.
 Typhus fever, week ended Apr. 22, 1933, 12 cases: 1 case in South Carolina, 4 cases in Georgia, and 7 cases in Texas.

<sup>4</sup> Figures for 1933 are exclusive of Oklahoma City and Tulsa and for 1932 are exclusive of Tulsa only.
 <sup>4</sup> Rocky mountain spotted fever, week ended Apr. 22, 1933, 5 cases: 2 cases in Montana, 2 cases in Wyoming and 1 case in California.

### 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	Malaria	Measles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
February 1955 Hawaii Territory New Hampshire Marck 1953		16 1	113 15		1		0 0	3 180	0 0	14 0
Florida	3 7 97 9 2 16 5 	41 40 156 57 33 103 61 96 14 55 26 47	71 1, 417 335 108 170 44 13 10 105 25 3, 528 15 119	15 62 1 15 3  428	185 159 1, 753 233 79 5, 360 6, 111 7, 350 7 713 30 756	10 24 2 6 	10201 3000 322	37 37 2, 322 59 493 2, 565 310 118 1, 540 190 26 77 77 127	0 30 75 3 0 6 0 0 1 0 3	49 11 8 49 22 15 4 1 14 20

February 1955		Lead poisoning:	Cases	Tetanus:	Cases
	Com	Illinois	5	Georgia	2
Hawaii Territory:	Cases	New Jersey	1	Illinois	1
Chicken pox	51	Leprosy:		Louisiana	1
Conjunctivitis, follic-		Louisiana	1	Maryland.	
_ ular	18	Letnargic encephantis:		South Carolina	1
Dysentery, bacillary	2	Georgia	1	Trachoma:	
Hookworm disease	41	Linnois	7	Georgia	21
Leprosy	5	Minnesota	2		1
Mumps	6	New Jersey	3	New Jersey	13
Plague	1	South Carolina	8	South Dakota	1
Tetanus	2	Mumps:		Trichinosis:	-
Trachoma	5	Florida	14	Linois	3
whooping cough	166	Georgia	2/3	New Jersey	2
			439	Tularæmia:	
March 1933		Louisiana	- 4	Georgia	4
Anthrax:		Maryland	1 740	Illinois	- 4
New Jersey	1	Michigan	1,6/2	Louisiana	5
Chicken pox:		New Jersey	1, 721	Minnesota	1
Florida	180	Rhode Island	100	_ South Carolina	2
Georgia	205	South Carolina	129	Typhus fever: 1	
Illinois	2, 317	South Dakota	23	Florida	2
Louisiana	38	West Virginia	18	Georgia	6
Maryland	693	Ophthalmia neonatorum:		Illinois	2
Michigan	2, 223	Illinois	8	South Carolina	2
Minnesota	393	Maryland	1	Undulant fever:	
New Jersey	1,964	Minnesota	2	Georgia	1
Rhode Island	144	New Jersey	3	Illinois	Ś
South Carolina	136	Rhode Island	1	Louisiana	- 4
South Dakota	140	South Carolina	15	Maryland	4
West Virginia	260	Paratyphoid fever:		Michigan	1
Dengue:		Louisiana	3	Minnesota	8
South Carolina	9	Minnesota	1	New Jersey	ĺ
Diarrhea:		South Carolina	4	West Virginia	ī
Maryland	1	West Virginia	1	Vincent's angina:	-
South Carolina	438	Puerperal septicemia:		Illinois	127
Dysentery:		Illinois	10	Maryland	14
Florida	2	Rabies in animals:		Whooping cough:	
Georgia	7	Illinois	31	Florida	113
Illinois (amebic)	2	Louisiana	4	Georgia	228
Maryland	8	Maryland	6	Illinois	341
Minnesota	1	New Jersey	20	Louisiana	91
German measles:		South Carolina	15	Maryland	133
Illinois	68	Rabies in man:		Michigan	1. 331
Maryland	26	Illinois	2	Minnesota	783
Michigan	4,354	Louisiana	1	New Jersey	666
New Jersey	110	Scables:		Rhode Island	187
Rhode Island	1	Maryland	2	South Carolina	282
Hookworm disease:		Septic sore throat:		South Dakota	20
Georgia	484	Georgia	23	West Virginia	109
Louisiana	5	Illinois	18		
South Carolina	104	Louisiana	1		
Impetigo contagiosa:		Maryland	10		
Illinois	1	Michigan	44		
Maryland	26	Rhode Island	21		

<sup>1</sup> The report of 25 cases of typhus fever in Tennessee in March, PUBLIC HEALTH REPORTS, Apr. 21, 1933, p. 431, is erroneous, no cases of typhus fever having occurred.

# WEEKLY REPORTS FROM CITIES

# City reports for week ended Apr. 15, 1933

وموافقاتها بالمحادث والمستخد والمتباد والمتحد	7			_							
State and dity	Diph-	Infl	uenza	Mea-	Pneu-	Scar- let	Small	Tuber-	Ty- phoid	Whoop- ing	Deaths,
	Cases	Cases	Deaths	Cases	deaths	fever cases	cases	deaths	fever cases	cough cases	causes
Maine:											
Portland New Hampshire:	0	1	0	0	1	2	0	1	1	11	18
Concord	0		0	o o	0	0	0	0	0	0	13
Nashua	ŏ		ŏ	1	ō	Ő	ŏ	ŏ	ŏ	ŏ	
Vermont: Barre	0		0	0	0	0	0	1	0	15	1
Burlington Massachusetts	0		C	1	0	7	0	0	0	0	3
Boston	12	1	1	204	23	87	0	5	0	53	213
Springfield	Ő	1	ŏ	i	2	6	ŏ	2	ŏ	8	39
Rhode Island:	5		0	28	4	24	0	1	0	1	49
Pawtucket Providence	3		0	0	07	1 19	0	0	0	5	71
Connecticut:	,			20		15	Ň		ů		
Hartford	0		ŏ	32		10 22	Ŏ	2	ŏ	4	35
New Haven	0		1	0	2	n	0	2	0	8	45
New York: Buffalo	4		0	59	13	60	0	3	0	32	114
New York	35	28	10	2, 475	175	395	Ŏ	101	4	133	1, 599
Syracuse	ŏ		ŏ	i	5	29	ŏ	2	ŏ	ii	55
New Jersey: Camden	0	1	0	17	2	12	0	1	0	0	34
Newark Trenton	1	3	0	520 18	15	35 13	0	3	0	18	70 32
Pennsylvania:	ŗ		ů	007			ů	20			447
Pittsburgh	2	3	1	5	17	66	ŏ	8	ŏ	23	158
Scranton	42		0	33 0	1	16 20	0	1	Ö	52	30 
Ohio:											
Cincinnati	0	1	0	7	7	38	0	8	0	12	118
Columbus	2	i	ī	52	4	26	Ŏ	7	ĭ	ĝ	88
Indiana:	4	1	1	382	3	110	U	0		(	04
Fort Wayne Indianapolis	32		1	0 92	0 13	5 26	8	04	0	0 16	28
South Bend	0		0 0	9	3	5	0	0	0	1	18 26
Illinois:							Ň		, I		
Cicero	ő	<sup>2</sup>	ō	0	0	4	ő	41 0	ő	ó	6
Springfield	2		0	0	2	6	0	1	0	0	20
Detroit Flint	14	17	3	678 246	15	196	0	20	0	111	261 24
Grand Rapids.	ŏ		ĭ	<b>9</b>	3	10	ŏ	ō	ŏ	34	31
Kenosha	0		0	1	0	6	0	0	0	1	6
Madison Milwaukee	0	2	2	139 3	7	2 21	8	4	8	2 43	101
Racine	0		8	2	0	6	0	1	0	16 7	18 7
Minnesote:	Ĩ		ů	ľ	Ĩ	Ĩ	Ĩ	ľ,	°		•
Duluth	0		1	12	. 0	0	0	1	Q	31	19
St. Paul	0	1	1	40 547	4	32 25	ŏ	2	ŏ	59	79 65
Iowa: Des Moines	5			0		11	0		o	o	27
Sioux City	1			2		2	Ö.		Ö	2	
Missouri:									Ĭ.	Ĭ,	
St. Joseph	2		ŏ	76	ó	30	ŏ	Ō	ŏ	1	70
St. Louis	12	21	11	16	5	23	01	11	0	01	191

City reports f	or	week	ended	Apr.	15,	1933—Continued
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		Infl	uenza			Scar-		<b>m</b> -1	Ty-	Whoop	
State and city	Diph- theria cases	Cases	Deaths	sles cases	monia deaths	let fever cases	pox cases	culosis deaths	phoid fever cases	ing cough cases	all causes
North Dakota: Fargo	0		0	7	2	0	0	1	0	0	12
South Dakota:	0				0	3	0	0	0		
Nebraska:	2			22	4	2	1	0	0		45
Kansas: Topeka	0		1	108	2	2	0	o	0	1	19
Wichita	Ŏ		1	Ő	2	3	Ő	i	1	8	42
Delaware: Wilmington	0		0	5	2	6	0	0	0	0	28
Maryland: Baltimore	7	3	2	1	34	84	0	10	0	27	210
Cumberland Frederick	0		0	0	1	0 1	0	0	0		6
District of Col.: Washington	4	3	3	8	7	15	0	16	Ŭ O	2	148
Virginia:		-				1			٥	,	11
Norfolk	ŏ		1	Ō	Ó	7	ŏ	2	ŏ	6	21
Richmond Roanoke	0		0	8 64	3	10 0	0		0	7	40 6
West Virginia: Charleston	0		0	1	1	3	0	0	0	1	15
Huntington	Ŏ			3		3	ĺ		Ő	ī	
North Carolina:	U					-	0				14
Raleigh Wilmington	0		0	0 185	2	0	0	3	0	02	10 19
Winston-Salem.	0	1	0	13	0	6	0	1	0	9	5
Charleston	7	12	1	0	2	1	0	2	1	12	24
Greenville	U 0		3 0	0 21	5 1	ŏ	Ŭ	ŏ	ŏ	Ŭ	9
Georgia: Atlanta	1	36	3	34	10	2	0	2	1	7	76
Brunswick	Ō	1	1	0	1	Ō	Ő	0	Ō	Ó	4
Florida:	U	11	2	1				1		-	51
Miami Tampa	02	5	0	2	2	ő	0	3 0	0 1	4	28 20
Kentucky.							•				
Ashland	0		0	40	0	2	0	0	0	6	
Louisville	1		1	5	10	16	Ő	ĩ	ŏ	ō	76
Tennessee: Memphis	1		1	18	8	3	0	1	1	8	67
Nashville	Ō		2	0	2	1	0	3	0	2	48
Birmingham	0	3	0	2	7	1	0	5	1	1	54
Montgomery	Ő	1		5		Ů	ŏ		ŏ	ō	
Arkansas:											
Fort Smith	2		0	0 84	3	0	0	i-	0		4
Louisiana:				10	19	-	_	19		19	190
Shreveport	ő	ہ 	ō	2	3	í	ŏ	Ő	ŏ	10	25
Oklahoma: Tulsa	0			58		0	6		0	5	
Texas:	R	4	4		0	12	0	2	0		50
Fort Worth	ŏ			27		ĩ	ŏ		ŏ	ŏ	
Galveston	0 4		ő	8	13	1	0	6	ő	ŏ	10 65
San Antonio	i		3	18	6	1	0	9	1	0	73
Montana:				<u>م</u>		<u>ہ</u>	_				
Great Falls	ŏ		ŏ	ŏ	ŏ	ĭ	ŏ	ŏ	ŏ	3	Š
Helena Missoula	0		0	Ő	01	0	0	Ö	ő	ŏ	24

Choto and site	Diph	Inf	luenza	Mea-	Pneu-	Scar- let	Small	Tuber	Ty-	Whooping	Deaths.
State and city	Cases	Cases	Deaths	Cases	deaths	fever cases	cases	deaths	fever cases	cough cases	causes
Idaho: Boise				15	0	1	9	0	0	0	1
Colorado:		·		10		1					
Denver Pueblo New Mexico:		)	. ō	0	Ő	12	0 0	2	Ő	4	12
Albuquerque Utah:	0	)	. 0	0	3	0	0	2	0	19	15
Salt Lake City . Nevada:	0	)	. 1	1	2	2	0	0	1	14	34
Reno	0	יוי	. 0	0	0	0	0	0	0	0	9
Washington: Seattle Spokane				11		8	02		l o	4	
Tacoma	ŏ		0	Ō	2	2	ī	1	ŏ	Ĭ	26
Portland	0	22	1	3 14	0	10 1	4 0	0	1 0	5 0	61
Los Angeles Sacramento	23	7	1	513 4	72	49 0	18 0	26 1	03	63 44	273 28
San Francisco	Ŏ	81	Ō	2	11	n	Ŏ	11	Ō	69	158
State and city		Mening menir	deningococcus meningitis			State a	nd city		Mening meni	ococcus ngitis	Polio- mye- litis
		Cases	Deaths	C8365					Cases	Deaths	Cases
New York: Buffalo		1	0	0	Distr V South	rict of C Vashing	olumbi	8:	2	0	0
Pennsylvania: Pitteburgh		2	1	-	Geor	freenvil	lle		0	1	0
Indiana:	••••					tlanta. avanna	h		1 0	0	0 1
Illinois: Chicago			10	1	Arka	nsas: fort Sm	ith		1	0	0
Michigan: Detroit		0	• 1	0	Louis	siana: Jew Orl	eans		1	1	0
Grand Rapids		0	1	0	Texa	s: Dallas			1	1	Q
Minnesota: Duluth		0	1	0	E	iouston			0	1	0
Des Moines Sioux City		1	0 0	0	Utan 8	: alt Lak	e City_		1	0	0
Missouri: St. Louis		1	1	0	Wash	eattle	: 		0	0	1
Omaha		4	o	0		ornia: os Ang an Frai	eles		0	1	1
Maryland: Baltimore		1	1	0					•	•	J

# City reports for week ended Apr. 15, 1933-Continued

Lethargic encephalitis.—Cases: New York, 2; Pittsburgh, 1; Chicago, 2; Memphis, 1. Pellagra.—Cases: Wheeling, 1; Miami, 1; Birmingham, 4; Los Angeles, 3. Typhus fever.—Cases: Tampa, 1.

# FOREIGN AND INSULAR

## CANADA

Provinces—Communicable diseases—2 weeks ended April 8, 1933.— The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the 2 weeks ended April 8, 1933, as follows:

Disease	Prince Edward Island	Nova Scotia	New Bruns- wick	Quebec	Onta- rio	Mani- toba <sup>1</sup>	Sas- katche- wan	Alberta	British Colum- bia	Total
Cerebrospinal men- ingitis. Chicken pox Diphtheria. Erysipelas. Influenza. Measlee Mumps. Paratyphold fever. Pneumonia.	20	2 7 31 41 3 41	1 	1 465 45 28 6 324	5 510 29 7 11 439 530 2 8	30 4 	48 15 3 	5 2 14	2 122 3 3 3 7 57 57	10 1, 180 104 43 51 860 653 2 31
Poliomyelitis Scarlet fever Smallpox Trachoms Tuberculosis Typhoid fever Undulant fever Whooping cough	  1 	18 2	7 25 1	1 93  156 29 	140 3 102 13 6 176	14 	30 2 16 1 34	9 10 	6 6 2 63 4 	1 317 11 2 383 48 7 479

<sup>1</sup> Report from Manitoba for week ended Apr. 8 not included.

Ontario Province—Communicable diseases—4 weeks ended March 25, 1933.—The Department of Health of the Province of Ontario, Canada, reports certain communicable diseases for the 4 weeks ended March 25, 1933, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis Chicken pox Diphtheria Dysentery German measles Georman measles Gonorrhea Influenza Measles Mumps Paratyphoid fever Pneumonia	1 1, 226 47 1 14 9 222 115 1, 106 1, 006 9	1 2 2 1 1 7 3 17 3 125	Poliomyelitis Puerperal septicemia Scarlet fever Septic sore throat Synphilis Trachoma Tuberculosis Typhoid fever Undulant fever Whooping cough	1 299 6 5 290 2 179 20 15 513	i i i 1 i 46 1 

(495)

## CUBA

Provinces—Communicable diseases—4 weeks ended March 4, 1933.— During the 4 weeks ended March 4, 1933, cases of certain communicable diseases were reported in the provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
Chicken pox Diphtheria Hookworm disease Malaria Measles Tuberculosis Typhoid fever	2 2 8 1	5 10 8 2 11 15	 88 3 2 2 2	1 4 186 25 10 24	1  90 1 8 13	 72 2 12 12	9 14 1 444 35 51 67

## ITALY

Communicable diseases—4 weeks ended October 16, 1932.—During the 4 weeks ended October 16, 1932, cases of certain communicable diseases were reported in Italy as follows:

	Sept. 19-25 Sept		Sept. 2	ept. 26-Oct. 2		Oct. 8-9		Oct. 10-16	
Disease	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	
Anthrax Carebrospinal meningitis Chicken pox Diptheria and croup Zethargic encephalitis Measles Poliomyelitis Carlet fever small pox	39 2 32 430 29 1 334 31 413	83 2 264 234 19 1 119 27 167 747	49 4 540 68 2 427 40 537 2 327	43 4 30 291 29 2 138 33 180 877	53 6 34 539 73 2 304 19 486 2 2 1 655	45 6 27 267 34 2 102 17 176 1 706	29 5 55 754 51 1 558 27 573 2 073	28 5 85 838 31 1 133 21 215	

## YUGOSLAVIA

Communicable diseases—March 1933.—During the month of March 1933 certain communicable diseases were reported in Yugoslavia as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax. Cerebrospinal meningitis Diphtheria. Dysentery. Erysipelas. Measles. Paratyphoid fever	38 12 624 35 125 912 8	9 4 105 7 10 16 2	Poliomyelitis Scarlet fever Bepsis Tetanus Typhoid fever Typhus fever	8 222 10 25 245 122	3 17 4 13 28 9

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

(NOTE.—A table giving current information of the world prevalence of quarantinable diseases appeared in the PUBLIC HEALTH REFORTS for Apr. 28, 1933, pp. 459–470. A similar cumulative table will appear in the PUBLIC HEALTH REFORTS to be issued May 26, 1933, and thereafter, at least for the time being, in the issue published on the last Friday of each month.)

#### Cholera

*Philippine Islands.*—During the week ended April 22, 1933, 3 cases of cholera with 4 deaths were reported at Ormoc, Leyte Province, Philippine Islands.

## Plague

Bolivia.—During the last 2 weeks of February 1933 an outbreak of plague appeared in several parts of the Province of Tomina, Department of Chuquisaca. The number of cases is unknown. The mortality is said to be as high as 80 percent. A sanitary cordon had been established and all prophylactic measures were being taken.

*Peru.*—During the month of March 1933, 7 cases of plague, with 7 deaths, were reported in Peru. The cases occurred in the Departments of Lambayeque, Libertad, and Lima.

### Smallpox

Bolivia.—During the month of February 1933, 39 cases of smallpox were reported in La Paz, Bolivia.

#### **Typhus Fever**

Bolivia.—During the month of February 1933 typhus fever was reported in Bolivia as follows: La Paz, 33 cases; Ulla-Ulla and Guaqui, several cases; Potosi, 8 cases; and Santa Cruz, some isolated cases.

Chile.—From January 1 to February 4, 1933, 365 cases (15 suspected cases) of typhus fever were reported in Chile. Two cases were reported in Antofagasta, 9 in Concepcion, 1 in Santiago, and 4 in Talcahuano.