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## DISABLING ILLNESS AMONG INDUSTRIAL EMPLOYEES IN 1934 AS COMPARED WITH EARLIER YEARS

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The incidence rate of new cases of sickness and nonindustrial accidents causing absence from work for more than 1 week in a group of 174,643 male industrial employees was lower in 1934 than in the preceding year, when the lowest rate since 1921 was recorded. The frequency of cases in 1934 was 3 percent below the rate for 1933, 21 percent below the 1932 rate, 32 percent lower than in 1929, and 14 percent below the rate for 1921. In these comparisons the rate of occurrence of new cases has been based on the experience of employees in the same industrial establishments with the exception of the rate for 1921, which includes the employees of all establishments reporting at that time. It is apparent, therefore, that the increase in industrial activity since 1932 has not been associated thus far with any increase in the frequency of cases of disabling illness of 8 days and longer among male employees of the 37 reporting companies.

New lows were recorded in 1934 for both the respiratory and nonrespiratory disease groups, although the proportional decrease was greater in the respiratory group. The rate of 24.5 cases of respiratory disease per 1,000 men was 14 percent lower than the previous minimum (in 1933) registered since 1921, when the collection of industrial morbidity statistics was inaugurated. Sickness exclusive of influenza occurred at precisely the same rate as in 1933; hence the lower rate in 1934 was due to a decrease in the prevalence of influenza. The rate of 10.1 influenza cases per 1,000 men was 21 percent lower than the previous minimum influenza rate of 12.9 in 1921.

(1527)

**TABLE 1.**—*Frequency of specified causes of disability lasting 8 consecutive calendar days or longer among male industrial workers in various industries, by years, from 1929 to 1934, inclusive*<sup>1</sup>

Year in which disability began	Sickness and non-industrial injuries <sup>2</sup>		Sickness		Respiratory diseases <sup>3</sup>		Sickness exclusive of influenza		Nonrespiratory diseases		Average number of men, all reporting establishments
	A	B	A	B	A	B	A	B	A	B	
1929.....	112.4	110.6	99.9	98.1	47.8	46.8	73.9	71.9	52.1	51.3	194,451
1930.....	94.1	93.8	81.8	81.6	32.0	32.3	68.5	68.2	49.8	49.3	188,714
1931.....	94.6	93.2	82.2	81.1	34.9	34.8	63.3	62.1	47.3	46.3	171,694
1932.....	97.5	94.7	84.9	82.3	37.6	37.0	62.9	60.4	47.3	47.3	163,979
1933.....	82.3	76.8	71.0	66.2	28.6	25.6	55.7	53.0	42.4	40.6	152,203
1934.....	78.1	74.7	65.8	62.8	24.5	23.4	55.7	53.0	41.3	39.4	174,643
5 preceding years <sup>4</sup> .....	96.2	93.8	84.0	81.8	36.2	35.3	64.9	63.1	47.8	46.5	174,208

<sup>1</sup> For the record 1921 to 1928, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 905-1001.

<sup>2</sup> Industrial accidents, venereal diseases, and a few numerically unimportant causes of disability are not reported.

<sup>3</sup> Title numbers 11, 23, 104-115a, in the International List of the Causes of Death, fourth revision, Paris, 1929.

<sup>4</sup> 1929 to 1933, inclusive.

A—all reporting establishments; B—establishments which reported throughout the 6 years ending Dec. 31, 1934.

These findings are based on reports to the Public Health Service from a group of 37 industrial sick-benefit organizations which pay cash benefits to members disabled by illness or nonindustrial accident for eight consecutive calendar days or longer. Employees of the reporting companies are scattered over almost all parts of the country, but most of them are concentrated in the North Central, North Atlantic, and New England States.

#### TRENDS IN THE FREQUENCY OF RESPIRATORY DISEASES

With the exception of influenza and tuberculosis, there were more cases of respiratory disease per 1,000 men in 1934 than in 1933 in the sample of the industrial population under consideration. However, the increase was not large in any numerically important subgroup, the 1934 incidence rate being below the average rate for the five preceding years for bronchitis, diseases of the pharynx and tonsils, pneumonia (all forms), and "other" respiratory diseases.

The decrease in the frequency of new cases of respiratory tuberculosis during the past 13 years has been little short of spectacular. In 1921 and 1922 the tuberculosis incidence rate was 1.9 cases per 1,000 men per year; in 1933 and 1934 the rate was only 0.8, a decrease of 58 percent. A corresponding decrease is shown in the records of mortality from pulmonary tuberculosis. Among the millions of industrial policyholders of the Metropolitan Life Insurance Co., the death rate from this disease fell almost 50 percent between 1922 and 1934.<sup>1</sup>

<sup>1</sup> Statistical bulletins, Metropolitan Life Insurance Co., New York, vol. 6, no. 1, January 1925, p. 7, and vol. 16, no. 1, January 1935, p. 7.

The frequency rate of pneumonia (all forms) also shows a gratifying decrease in recent years. From 1921 to 1929, inclusive, the average incidence rate of pneumonia was 3.3 cases per 1,000 men per year; during the past 5 years (1930-1934, inclusive) the average rate was only 2.1, a decrease of 36 percent. The lowest rate during the 14 years under review was 1.8 for 1933; in 1934 the rate increased slightly to 2.0, the same incidence as was recorded for 1932.

TABLE 2.—Frequency of specified respiratory diseases which caused disability for 8 consecutive calendar days or longer among male industrial workers in various industries, by years, from 1929 to 1934, inclusive<sup>1</sup>

Year in which disability began	Influenza or grippé (11)		Bronchitis, acute and chronic (106)		Diseases of the pharynx and tonsils (115a)		Pneumonia, all forms (107-109)		Tuberculosis of the respiratory system (23)		Other diseases of the respiratory system (104-105) (110-114)	
	A	B	A	B	A	B	A	B	A	B	A	B
1929.....	26.0	26.2	5.3	5.2	7.2	6.3	3.1	3.2	1.2	1.1	5.0	4.8
1930.....	13.3	13.4	4.6	4.8	6.0	5.8	2.5	2.7	1.1	1.1	4.5	4.5
1931.....	18.9	19.0	3.6	3.6	5.2	5.0	2.1	2.2	1.0	1.0	4.1	4.0
1932.....	22.0	21.9	3.6	3.5	4.5	4.4	2.0	2.0	1.0	1.0	4.5	4.2
1933.....	15.3	13.2	2.9	2.8	3.9	3.4	1.8	1.7	.8	.8	3.9	3.7
1934.....	10.1	9.8	3.2	3.2	4.3	3.9	2.0	2.0	.8	.8	4.1	3.7
5 preceding years.....	19.1	18.7	4.0	4.0	5.4	5.0	2.3	2.4	1.0	1.0	4.4	4.2

<sup>1</sup> For the record 1921 to 1925, inclusive, see Public Health Reports, vol. 47, no. 18, A pr. 29, 1932, pp.995-100L.

A=all reporting establishments; B=establishments which reported throughout the 6 years ending Dec. 31, 1934.

Numbers shown in parentheses are disease title numbers from the International List of the Causes of Death, fourth revision, Paris, 1929.

#### TRENDS IN THE FREQUENCY OF DISEASES OF THE DIGESTIVE SYSTEM

The digestive disease rate was higher in 1934 than in 1933 principally on account of an increase in the frequency of appendicitis. However, neither the digestive disease rate nor the rate of appendicitis was abnormally high in 1934 measured by average rates over a series of years. The frequency of appendicitis was only slightly above the average rate for the preceding 5 years and for the period 1921 to 1928. The rate of 12.7 cases of digestive disease per 1,000 males in 1934 was lower than the average for the preceding 5 years and for the period 1921 to 1928. Since 1929 the digestive disease rate has decreased about 15 percent, but the frequency of appendicitis in 1934 was about the same as it was 5 years ago. The decrease in the rate for digestive diseases as a whole during the past 5 years has been due largely to a decline in the incidence of the less serious digestive diseases included in the group of diseases of the stomach except cancer and in the diarrhea and enteritis category; the more serious diseases of the digestive system which are included in "other" digestive diseases occurred at approximately the same rates in 1933 and 1934 as in 1929 and 1930. There has been relatively little change in the frequency

of disability on account of hernia during the past 14 years in the group of male industrial workers under consideration.

TABLE 3.—*Frequency of specified diseases of the digestive system which caused disability for 8 consecutive calendar days or longer among male industrial workers in various industries, by years, from 1929 to 1934, inclusive*<sup>1</sup>

Year in which disability began	Digestive diseases total (115b-129)		Diseases of the stomach except cancer (117-118)		Diarrhea and enteritis (120)		Appendicitis (121)		Hernia (122a)		Other digestive diseases (115b, 116, 122b-129)	
	A	B	A	B	A	B	A	B	A	B	A	B
1929	15.6	15.6	4.7	4.7	1.5	1.4	4.5	4.5	1.8	1.9	3.1	3.1
1930	14.8	14.5	4.7	4.7	1.5	1.5	4.0	3.7	1.7	1.8	2.9	2.8
1931	13.4	12.9	4.0	3.6	1.2	1.2	3.7	3.5	1.8	1.9	2.7	2.7
1932	13.3	12.6	4.0	3.7	1.0	1.0	3.4	3.3	1.9	1.9	3.0	2.7
1933	12.1	11.1	3.3	3.3	1.0	1.0	3.3	3.0	1.3	1.3	3.2	2.5
1934	12.7	12.1	3.2	3.3	1.3	1.2	3.9	3.6	1.5	1.5	2.8	2.5
5 preceding years	13.8	13.3	4.1	4.0	1.2	1.2	3.8	3.6	1.7	1.8	3.0	2.7

<sup>1</sup> For the record 1921 to 1928, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 995-1001.

A—all reporting establishments; B—establishments which reported throughout the 6 years ending Dec. 31, 1934.

Numbers in parentheses are disease title numbers from the International List of the Causes of Death, fourth revision, Paris, 1929.

#### TRENDS IN THE FREQUENCY OF NONRESPIRATORY, NONDIGESTIVE DISEASES

As a whole, diseases other than those of the respiratory and digestive systems occurred at a lower rate in 1934 than in any other year under review. The previous minimum was a rate of 30.3 cases per 1,000 men in 1933; in 1934 the frequency of these diseases as a group declined to 28.6, a reduction of approximately 5 percent. Since a number of diseases which cause a large amount of time lost from work are included in this broad group, the favorable rates during the past 2 years are particularly noteworthy.

The causes of the lower rates for nonrespiratory, nondigestive diseases during the past 2 years are to be found in a reduced incidence of rheumatism (acute and chronic), diseases of the organs of locomotion, diseases of the skin, and certain other disease groups of lesser numerical importance. During the 8 years from 1921 to 1928, inclusive, the incidence rate of rheumatism (acute and chronic) was 6.0 cases per 1,000 men per year; in 1934 the rate was only 4.0, a decrease of one-third. Although the trend has been downward since 1928, the sharpest decreases in the rheumatism incidence rates have occurred since 1932. To what extent this change may be due to the replacement of rheumatic with more able-bodied workers cannot be ascertained at present. A somewhat less abrupt decrease is shown in the frequency of a related group of diseases, e. g., lumbago and other

diseases of the organs of locomotion. In 1934 the frequency of these ailments was about 20 percent below the incidence recorded for 1932. The record for diseases of the skin reveals a marked downward trend since 1927, when the rate was 4.7 cases per 1,000 men. Since then the incidence rate each year has been lower than that for the preceding year, with the exception of 1933, the rate for which was the same as in 1932. In 1934 a new minimum was attained, 47 percent below the rate recorded in 1927 for 8-day or longer disabilities from diseases of the skin.

Disease groups showing relatively little change in frequency in 1933 and 1934 as compared with earlier years include diseases of the heart, diseases of the genito-urinary system and annexa except nephritis, neuralgia, neuritis, and sciatica, diseases of the ears and of the mastoid process, and cancer.

For nephritis (acute and chronic) the rates of 1933 and 1934 (which were identical) were definitely lower than in any preceding year of record.

Claims for sickness benefits on account of neurasthenia decreased sharply in 1933 and 1934 as compared with earlier years. The depression peak for this disorder occurred in 1931, when the rate was 87 percent above the incidence of 1934. Definitely unfavorable, however, is the trend of "other" diseases of the nervous system, which include the more serious pathological conditions such as the psychoses, cerebral hemorrhage, and thrombosis. For this group the average frequency rate during the years 1921 to 1928 was 0.9 cases per 1,000 men per year; during the next 5 years the average rate rose to 1.2, and in 1933 and 1934 the annual rate was 1.4 cases per 1,000 men, the highest rate recorded thus far.

The frequency of cancer (all forms) in 1934 was the same as in 1928 and 1929. There is little evidence of a trend one way or the other in the frequency of new cases of malignant tumor among the industrial workers for whom sickness records are available.

The rate of occurrence of 8-day or longer disabilities from nonindustrial accidents rose 9 percent in 1934 over the rate for the preceding year; compared with the annual frequency in the 1921-28 period the increase was 20 percent. Since 1921 the trend in the frequency of nonindustrial injuries has been upward, probably due in large part to the increasing hazards of motor-car transportation.

**TABLE 4.—Frequency of specified nonrespiratory, nondigestive diseases which caused disability for 8 consecutive calendar days or longer among male industrial workers in various industries, by years, from 1929 to 1934, inclusive <sup>1</sup>**

Year in which disability began	Nonrespiratory, nondigestive diseases, total		Diseases of the circulatory system except diseases of the veins (90-99, 101-103)		Diseases of the veins (100)		Diseases of the heart (90-95)		Nephritis—acute and chronic (130-132)	
	A	B	A	B	A	B	A	B	A	B
1929.....	36.5	35.7	3.4	3.5	1.7	1.7	2.2	2.3	0.8	0.8
1930.....	35.0	34.8	3.4	3.4	1.6	1.6	2.1	2.1	.7	.8
1931.....	33.9	33.4	3.2	3.2	1.8	1.5	2.0	2.1	.7	.7
1932.....	34.0	32.7	3.7	3.6	1.8	1.7	2.5	2.4	.8	.8
1933.....	30.3	29.5	3.4	3.2	1.4	1.4	2.1	2.1	.5	.6
1934.....	28.6	27.3	3.0	2.9	1.5	1.3	2.0	1.9	.5	.6
5 preceding years.....	34.0	33.2	3.4	3.4	1.7	1.6	2.2	2.2	.7	.7

Year in which disability began	Other diseases of the genito-urinary system and annexa (133-138)		Neuralgia, neuritis, sciatica (87a)		Neurasthenia and the like (87b)		Other diseases of the nervous system (78-85)		Diseases of the organs of vision (88)	
	A	B	A	B	A	B	A	B	A	B
1929.....	2.2	2.1	2.5	2.5	1.3	1.2	1.1	1.0	1.0	1.0
1930.....	2.4	2.3	2.3	2.2	1.2	1.2	1.0	1.1	1.1	1.1
1931.....	2.3	2.2	2.1	2.1	1.5	1.4	1.1	1.3	1.0	1.0
1932.....	2.3	2.1	2.3	2.3	1.3	1.1	1.2	1.2	.9	.8
1933.....	2.2	2.1	2.1	1.9	.8	.8	1.4	1.3	.8	.8
1934.....	2.4	2.1	1.8	1.8	.8	.7	1.4	1.1	.8	.7
5 preceding years.....	2.3	2.2	2.3	2.2	1.2	1.1	1.2	1.2	1.0	.9

Year in which disability began	Diseases of the ears and of the mastoid process (89)		Rheumatism, acute and chronic (56, 57)		Diseases of the organs of locomotion except diseases of the joints (156b)		Diseases of the skin (151-153)		Infectious and parasitic diseases <sup>2</sup> (1-10, 12-22, 24-33, 36-44)	
	A	B	A	B	A	B	A	B	A	B
1929.....	0.7	0.6	5.6	5.6	3.9	3.9	4.2	4.2	3.9	3.5
1930.....	.5	.5	5.6	5.6	3.5	3.5	3.8	3.8	3.8	3.5
1931.....	.7	.6	5.4	5.4	3.3	3.5	3.2	3.3	3.3	2.9
1932.....	.7	.7	5.3	5.5	3.3	3.6	2.7	2.7	2.7	2.1
1933.....	.6	.6	4.9	4.9	2.8	3.0	2.7	2.6	2.0	1.8
1934.....	.5	.6	4.0	4.0	2.7	2.8	2.5	2.3	2.5	2.4
5 preceding years.....	.6	.6	5.4	5.4	3.4	3.5	3.3	3.3	3.1	2.8

Year in which disability began	Cancer, all forms (45-53)		Other general diseases <sup>3</sup> (54, 55, 59-77)		Diseases of the bones and joints (154-156a)		Ill-defined and unknown causes of disability (200)		Nonindustrial injuries (163-198)	
	A	B	A	B	A	B	A	B	A	B
1929.....	0.4	0.4	1.2	1.2	0.8	0.7	1.8	1.8	12.5	12.5
1930.....	.5	.5	1.2	1.2	.7	.8	1.7	1.7	12.3	12.2
1931.....	.6	.6	1.2	1.2	.6	.6	1.9	1.9	12.4	12.1
1932.....	.6	.6	1.7	1.7	.4	.5	2.3	1.7	12.6	12.4
1933.....	.5	.5	1.7	1.6	.5	.6	2.0	1.8	11.3	10.6
1934.....	.4	.4	1.9	1.8	.4	.3	1.5	1.5	12.3	11.9
5 preceding years.....	.5	.5	1.4	1.4	.6	.6	1.9	1.8	12.2	12.0

<sup>1</sup> For the record 1921 to 1928, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 995-1001.

<sup>2</sup> Except influenza, respiratory tuberculosis, and the venereal diseases.

<sup>3</sup> Includes nutritional diseases, diseases of the endocrine glands, diseases of the blood and blood-making organs, chronic poisonings, and intoxications.

A = all reporting establishments; B = establishments which reported throughout the 6 years ending Dec. 31, 1934.

Numbers shown in parentheses are disease title numbers from the International List of the Causes of Death, fourth revision, Paris, 1929.

## SICKNESS FREQUENCY ACCORDING TO SEX

Female members of the reporting sick-benefit associations experienced disabilities lasting 8 days or longer 58 percent oftener than males during the 5 years ending December 31, 1933, and in 1934 the female incidence rate was 84 percent above the male rate. This difference is not due to diseases of pregnancy, childbirth, and the puerperal state, because most of the reporting associations pay benefits only for ailments common to both sexes. Furthermore, the age distribution of female industrial workers is more favorable from a health standpoint than that of males, because relatively few women are found in industry at ages above 45. Nevertheless, the frequency both of respiratory and of nonrespiratory diseases was much higher among the women in each of the years under review. The *trend* of sickness frequency, however, was quite similar to that among males. In 1933 and 1934 the female as well as the male incidence rates decreased markedly from a level that was hitherto regarded as probably representative of minimum sickness frequency.

TABLE 5.—*Frequency of specified causes of disability lasting 8 consecutive calendar days or longer among female industrial workers in various industries, by years, from 1929 to 1934, inclusive*

Year in which disability began	Sickness and nonindustrial injuries <sup>1</sup>	Percent of male rate	Sickness	Respiratory diseases <sup>2</sup>	Sickness exclusive of influenza	Non-respiratory diseases	Non-industrial injuries	Average number of women, all reporting establishments
1929.....	162.0	144	149.0	68.9	118.1	80.1	13.0	14,425
1930.....	145.3	154	132.5	49.8	117.1	82.7	12.8	13,582
1931.....	162.0	171	147.8	63.9	115.5	83.9	14.2	12,272
1932.....	158.4	162	143.6	71.6	101.1	72.0	14.8	13,520
1933.....	131.3	160	119.5	51.3	91.4	68.2	11.8	14,587
1934.....	143.6	184	131.1	52.9	108.2	78.2	12.5	15,644
5 preceding years <sup>3</sup> .....	151.8	158	138.5	61.1	108.7	77.4	13.3	13,677

<sup>1</sup> Industrial accidents, venereal diseases, and a few numerically unimportant causes of disability are not reported.

<sup>2</sup> Title numbers 11, 23, 104-115a, in the International List of the Causes of Death, fourth revision, Paris, 1929.

<sup>3</sup> 1929 to 1933 inclusive.

For the 5 years ending December 31, 1934, sickness incidence rates have been computed for specific disease groups according to sex (*cf.* table 6). The greatest excess of female over male rates was found in functional nervous disorders (neurasthenia and kindred conditions), the female rate for this type of illness being six times the male rate. The next greatest excess occurred in diseases of the genito-urinary system and annexa except nephritis, the female rate being about four times the male incidence. Diseases which occurred at two to three times the male rate are diseases of the pharynx and tonsils, bronchitis, appendicitis, "other" digestive diseases, ill-defined conditions, and the

group of "all other" diseases. Female industrial workers also experienced more 8-day or longer disabilities from influenza, respiratory tuberculosis, "other" respiratory diseases, diarrhea and enteritis, and infectious and parasitic diseases than the same number of male employees. The rates were about the same for nonindustrial accidents, diseases of the stomach except cancer, "other" diseases of the nervous system, diseases of the circulatory system, nephritis, and diseases of the skin. On account of the smaller proportion of industrially employed women than men at ages above 45, it seems obvious that the female rates for some of these diseases would be higher if the age factor were taken into account. Adjusted rates correcting for differences in the age composition of the two sexes could not be computed, however, on account of lack of data on the age distribution of members of the reporting associations. The younger average age of female employees may account in part for the relatively low rates found for pneumonia, rheumatism, and diseases of the organs of locomotion.

TABLE 6.—Frequency of specified causes of disability according to sex, 1930-34, inclusive<sup>1</sup>

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1929 revision)	Annual number of cases per 1,000—		Percent of male rate	Number of cases among—	
	Males	Females		Males	Females
Sickness and nonindustrial injuries.....	89.5	147.5	165	76, 148	10, 266
Nonindustrial injuries.....	12.2	13.2	108	10, 373	917
Sickness.....	77.3	134.3	174	65, 775	9, 349
Respiratory diseases.....	31.6	57.5	182	26, 853	4, 003
Bronchitis, acute and chronic (106).....	3.6	7.3	203	3, 065	508
Diseases of the pharynx and tonsils (115a).....	4.8	12.3	256	4, 103	856
Influenza, grippé (11).....	15.8	28.0	177	13, 470	1, 947
Pneumonia, all forms (107-109).....	2.1	1.3	62	1, 784	88
Tuberculosis of the respiratory system (23).....	1.0	1.4	140	815	99
Other respiratory diseases (104-105, 110-114).....	4.3	7.2	167	3, 616	505
Digestive diseases.....	13.3	24.5	184	11, 340	1, 705
Diseases of the stomach, cancer excepted (117-118).....	3.8	4.5	118	3, 274	315
Diarrhea and enteritis (120).....	1.2	2.3	192	1, 047	158
Appendicitis (121).....	3.7	10.3	278	3, 128	717
Hernia (122a).....	1.7	.3	18	1, 406	24
Other digestive diseases (115b, 116, 122b-129).....	2.9	7.1	245	2, 485	491
Nonrespiratory, nondigestive diseases.....	32.4	52.3	161	27, 582	3, 641
Infectious and parasitic diseases (1-10, 12-22, 24-33, 36-44).....	2.4	3.8	158	2, 050	262
Rheumatism, acute and chronic (56, 57).....	5.1	3.7	73	4, 301	258
Neuralgia, neuritis, sciatica (87a).....	2.1	2.5	119	1, 796	173
Neurasthenia and the like (part of 87b).....	1.1	6.9	627	964	478
Other diseases of the nervous system (78-85, part of 87b).....	1.2	1.1	92	1, 026	77
Diseases of the heart (90-95).....	2.1	1.8	86	1, 811	127
Other diseases of the circulatory system (96-103).....	2.3	2.8	100	2, 376	197
Nephritis, acute and chronic (130-132).....	.7	.6	86	672	45
Other diseases of genito-urinary system and annexa (133-139).....	2.3	9.8	426	1, 960	680
Diseases of the skin (151-153).....	3.0	3.4	113	2, 560	236
Diseases of the organs of locomotion except diseases of the joints (156b).....	3.1	1.6	52	2, 653	111
Ill-defined and unknown causes (200).....	1.8	4.2	233	1, 540	291
All other diseases (45-55, 58-77, 88, 89, 140-150, 154-156a, 157, 162).....	4.7	10.1	215	3, 953	706

<sup>1</sup> Cases causing disability for less than 8 consecutive calendar days are not included. Industrial accidents, the venereal diseases, and certain numerically unimportant causes of disability are not reported.

Number of years of life under observation: Males, 851,233; females, 69,605.



## AMOUNT OF TIME LOST ON ACCOUNT OF ILLNESS

Most of the data available on industrial morbidity is confined to sickness frequency or incidence, on account of the technical difficulties involved in sickness severity, or time-lost rates. Chief among these are the widely different maximum benefit periods for one illness or for sickness in any one year provided by different sick-benefit organizations, and the extension of the benefit period sometimes granted to individuals under the discretionary power allowed boards of directors of certain sick-benefit funds. Furthermore, some associations are administered more liberally than others. For these and other reasons, the time-lost data are not strictly comparable even for associations having ostensibly the same maximum period for which sick-benefits are paid. Nevertheless, for certain purposes it appeared feasible to present the average duration per case of disability, and the average number of days of disability per person during a 12-month period for 3 different benefit periods, e. g., 13, 26, and 52 weeks.

In associations having a benefit period of 13 weeks the average duration of disability was 37 calendar days per male case and 35 calendar days per female disability. (See tables 7 and 8.) The time-lost statistics presented in these tables include disability during the waiting period, i. e., the first 7 days of disabling sickness. Time lost was computed from the onset to the termination of incapacity in all cases which recovered before the expiration of the benefit period. For cases which extended beyond this period the time lost was computed from the onset of disability to the end of the benefit period regardless of whether benefits were extended by the board of directors, so as to make the data from different associations as nearly comparable as possible.

A somewhat longer average duration per case was found in the associations having a benefit period of 26 weeks, namely, 46 days per male case and 42 days per female illness. The average length of disability was much the same in the associations having a benefit period of 52 weeks as in those which had established the maximum period at 26 weeks.

Among the disease groups listed in tables 7 and 8, the shortest average duration per case is shown for diseases of the pharynx and tonsils, the longest for respiratory tuberculosis. The next longest average duration occurred in diseases of the nervous system. Other disease groups causing long periods of incapacitation are diseases of the heart, other diseases of the circulatory system, nephritis, other diseases of the genito-urinary system and annexa, hernia, rheumatism, and pneumonia.

TABLE 7.—Calendar days of disability from cases which were closed in 1934, among the male members of 20 sick-benefit associations, by diseases and disease groups causing disability for 8 consecutive calendar days or longer

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1929 revision)	Calendar days of disability per case <sup>1</sup>			Calendar days of disability per 1,000 males <sup>1</sup>			Number of cases which were closed in 1934		
	Benefit period in weeks			Benefit period in weeks			Benefit period in weeks		
	13	26	52	13	26	52	13	26	52
Sickness and nonindustrial injuries <sup>1</sup> .....	37. 10	45. 82	42. 63	2, 592	3, 065	3, 906	1, 286	1, 189	1, 885
Nonindustrial injuries.....	37. 26	44. 52	38. 02	324	452	429	160	176	232
Sickness.....	37. 08	46. 05	43. 28	2, 268	2, 613	3, 477	1, 126	983	1, 653
<b>Respiratory diseases.....</b>	<b>26. 34</b>	<b>34. 75</b>	<b>29. 76</b>	<b>635</b>	<b>694</b>	<b>965</b>	<b>444</b>	<b>346</b>	<b>667</b>
Bronchitis, acute and chronic (106).....	29. 86	30. 77	30. 57	83	69	120	51	39	81
Diseases of pharynx and tonsils (115a).....	17. 70	23. 45	15. 14	77	115	100	80	85	136
Influenza, grippé (11).....	20. 87	29. 87	24. 82	217	221	308	191	128	255
Pneumonia, all forms (107-109).....	42. 39	60. 67	51. 55	71	95	95	31	27	38
Tuberculosis of respiratory system (23).....	75. 05	150. 33	208. 56	77	52	91	19	6	9
Other respiratory diseases (104-105, 110-114).....	28. 21	40. 48	34. 80	110	142	251	72	61	148
<b>Digestive diseases.....</b>	<b>43. 53</b>	<b>49. 79</b>	<b>46. 69</b>	<b>565</b>	<b>592</b>	<b>721</b>	<b>239</b>	<b>206</b>	<b>318</b>
Diseases of stomach, cancer excepted (117-118).....	40. 48	47. 70	60. 41	185	157	200	84	57	68
Diarrhea and enteritis (120).....	28. 67	45. 58	34. 72	29	63	72	21	24	43
Appendicitis (121).....	43. 64	54. 54	39. 86	145	151	248	61	48	128
Hernia (122a).....	53. 66	57. 73	65. 42	102	100	76	35	30	24
Other digestive diseases (115b, 116, 122b-129).....	50. 66	44. 55	46. 82	104	121	125	38	47	55
<b>Nonrespiratory, nondigestive diseases.....</b>	<b>44. 35</b>	<b>53. 33</b>	<b>55. 16</b>	<b>1, 068</b>	<b>1, 327</b>	<b>1, 791</b>	<b>443</b>	<b>431</b>	<b>668</b>
Infectious and parasitic diseases (1-10, 12-22, 24-33, 36-44).....	32. 63	29. 10	21. 16	57	50	119	32	30	116
Rheumatism, acute and chronic (56, 57).....	41. 22	56. 67	51. 14	134	157	239	60	48	96
Neuralgia, neuritis, sciatica (87a).....	48. 13	56. 25	44. 51	79	65	93	30	20	43
Neurasthenia and the like (part 87b).....	65. 72	68. 00	70. 00	64	71	75	18	18	22
Other diseases of the nervous system (78-85, part of 87b).....	55. 75	114. 78	152. 40	48	119	148	16	18	20
Diseases of the heart (90-95).....	57. 67	76. 00	137. 31	113	132	234	36	30	35
Other diseases of the circulatory system (96-103).....	45. 71	73. 71	81. 60	122	209	230	49	49	58
Nephritis, acute and chronic (130-132).....	54. 33	72. 00	84. 00	18	4	41	6	1	10
Other diseases of genito-urinary system and annexa (133-138).....	46. 84	43. 93	69. 95	112	147	136	44	58	40
Diseases of the skin (151-153).....	27. 29	44. 63	33. 28	73	82	81	49	32	50
Diseases of the organs of locomotion except diseases of the joints (156b).....	33. 03	30. 84	23. 58	52	77	84	29	43	73
Ill-defined and unknown causes (200).....	35. 57	27. 62	32. 65	27	41	36	14	26	23
All other diseases (45-55, 58-77, 88, 89, 140-150, 154-156a, 157, 162).....	51. 95	51. 64	69. 10	169	173	275	60	58	82
Average number of males included in the record for year 1934.....							18, 407	17, 323	20, 575
Number of sick-benefit associations included.....							8	6	6

<sup>1</sup> Industrial accidents, the venereal diseases, and a few numerically unimportant causes of disability are not included.

<sup>2</sup> Disability during the waiting period, i. e., the first 7 days of disability, is included.

TABLE 8.—Calendar days of disability from cases which were closed in 1934, among the female members of 16 sick-benefit associations, by diseases and disease groups causing disability for 8 consecutive calendar days or longer

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1929 revision)	Calendar days of disability per case <sup>1</sup>			Calendar days of disability per 1,000 females <sup>2</sup>			Number of cases which were closed in 1934		
	Benefit period in weeks			Benefit period in weeks			Benefit period in weeks		
	13	26	52	13	26	52	13	26	52
Sickness and nonindustrial injuries <sup>1</sup> .....	35.16	41.83	44.30	4,712	5,149	6,491	158	387	376
Nonindustrial injuries.....	21.00	36.03	39.72	213	367	495	12	32	32
Sickness.....	36.33	42.35	44.73	4,499	4,782	5,996	146	355	344
Respiratory diseases.....	25.24	27.06	33.17	1,328	1,171	2,055	62	136	159
Bronchitis, acute and chronic (106).....	38.60	28.50	73.71	164	199	608	5	22	21
Diseases of pharynx and tonsils (115a).....	15.00	18.07	15.26	153	247	256	12	43	43
Influenza, grippé (11).....	21.24	26.02	26.95	612	374	657	34	47	65
Pneumonia, all forms (107-109).....	71.50	73.00	30.33	243	93	36	4	4	3
Tuberculosis of respiratory system (23).....	91.00	181.00	259.33	77	58	303	1	1	3
Other respiratory diseases (104-105, 110-114).....	15.50	33.00	21.42	79	200	200	6	19	24
Digestive diseases.....	40.00	47.89	49.39	848	944	1,097	25	62	57
Diseases of stomach, cancer excepted (117-118).....	56.50	37.00	57.25	95	118	178	2	10	8
Diarrhea and enteritis (120).....	17.80	61.00	37.50	75	175	117	5	9	8
Appendicitis (121).....	43.82	52.82	38.75	409	554	302	11	33	20
Hernia (122a).....	43.00			36			1	0	0
Other digestive diseases (115b, 116, 122b-129).....	45.50	30.70	61.05	232	97	500	6	10	21
Nonrespiratory, nondigestive diseases.....	46.42	53.41	57.01	2,323	2,667	2,844	59	157	128
Infectious and parasitic diseases (1-10, 12-22, 24-33, 36-44).....	27.50	19.20	21.92	47	61	111	2	10	13
Rheumatism, acute and chronic (56, 67).....	51.00	71.10	99.50	87	226	78	2	10	2
Neuralgia, neuritis, sciatica (87a).....	47.60	80.86	70.14	202	180	191	5	7	7
Neurasthenia and the like (part of 87b).....	48.86	53.95	85.94	290	361	536	7	21	16
Other diseases of the nervous system (78-85, part of 87b).....		189.00	32.00		60	12	0	1	1
Diseases of the heart (90-95).....	46.43	92.25	47.00	276	117	37	7	4	2
Other diseases of the circulatory system (96-103).....	51.00	24.57	32.14	259	55	88	6	7	7
Nephritis, acute and chronic (130-132).....							0	0	0
Other diseases of genito-urinary system and annexa (133-139).....	24.38	58.15	53.76	165	610	356	8	33	17
Diseases of the skin (151-153).....	48.25	30.29	38.10	163	135	148	4	14	10
Diseases of the organs of locomotion except diseases of the joints (156b).....	66.67	24.00	20.33	170	31	24	3	4	3
Ill-defined and unknown causes (200).....	50.50	51.47	40.80	257	278	80	6	17	5
All other diseases (45-55, 58-77, 88, 89, 140-150, 154-156a, 167, 162).....	53.33	59.97	67.47	407	553	1,183	9	29	45
Average number of females included in the record for year 1934.....							1,179	3,144	2,566
Number of sick-benefit associations included.....							6	5	5

<sup>1</sup> Industrial accidents, the venereal diseases, and a few numerically unimportant causes of disability are not included.

<sup>2</sup> Disability during the waiting period, i. e., the first 7 days of disability, is included.

A sickness rate of special interest is the number of days lost on account of illness per person per year, because it is the product of the rate of occurrence of disease (frequency) and its severity (duration). Exclusive of cases causing disability for less than 1 week, sickness and nonindustrial accidents caused a time loss in 1934 of 2.6 calendar days per male, and 4.7 per female member of associations having a benefit period of 13 weeks. In associations having a 26 weeks' benefit

period, the male rate was 3.1 days per person, the female rate 5.1. Under a maximum benefit period of 52 weeks, the number of days of disability per male member was 3.9 calendar days, per female member, 6.5 days. When the benefit period is less than 52 weeks, it is obvious that the full record of disabilities lasting an entire year is not obtained.

The diseases and conditions which caused the largest amount of time lost in 1934 among male industrial workers who belonged to reporting associations having a benefit period of 52 weeks, appear in the order of their importance as follows: (1) Nonindustrial accidents; (2) influenza or grippe; (3) "other" respiratory diseases; (4) appendicitis; (5) rheumatism (acute and chronic); (6) diseases of the heart; (7) other diseases of the circulatory system; (8) diseases of the stomach, cancer excepted; (9) diseases of the genito-urinary system and annexa; and (10) "other" diseases of the nervous system.

On account of the relatively small number of women included in the sick-benefit association records available, a word of caution appears advisable against too detailed comparison of the rates by sex. However, there seems to be sufficient evidence that certain disease groups are relatively more important from the standpoint of time lost to female than to male industrial workers. Neurasthenia, for example, appears to account for a larger proportion of the number of days of disability among women than among male employees. Similarly, diseases of the genito-urinary system and annexa, and diseases of the pharynx and tonsils probably rank higher in the list of important causes of lost time among women than among men in industry. The female time lost rates as well as their incidence rates, it will be observed, were generally higher than the corresponding rates for males.

#### SUMMARY

1. The frequency of cases of sickness causing disability for more than 1 week among approximately 175,000 male industrial workers was lower in 1934 than in any other year since the record was started in 1921. Compared with 1929 the sickness incidence rate has decreased almost one-third.

2. Influenza, which is one of the major causes of morbidity, occurred in 1934 at the lowest rate in 14 years.

3. The frequency of new cases of respiratory tuberculosis among male employees of the reporting industrial establishments decreased 58 percent between the years 1922 and 1934. A somewhat smaller decrease (36 percent) occurred in the incidence rate of pneumonia, all forms.

4. Divergent trends are manifested in the frequency of different nonrespiratory disease groups.

5. The incidence rate of 8-day or longer disabilities was 58 percent higher among female than among male industrial workers during the 5 years ending December 31, 1933, although the comparison excluded nearly all diseases not common to both sexes, and in spite of the fact that the average age of female workers is younger than that of male industrial employees.

6. Certain kinds of illness common to both sexes were found to occur much more often among female than among male workers. A few diseases, however, occurred at definitely lower frequency than was recorded for the men.

7. The average number of days of disability per case and the annual number of days of disability per person were computed from the record of time lost from cases which terminated in 1934. In that year illnesses and nonindustrial accidents lasting longer than 1 week caused 3.9 calendar days of disability per male, and 6.5 days per female member of reporting associations having a benefit period of 52 weeks.

8. Diseases and conditions causing a large amount of time lost from work are nonindustrial accidents, influenza, appendicitis, rheumatism, and, among women, neurasthenia.

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## A STUDY OF FACTORS AFFECTING NATURAL INSIDE ILLUMINATION<sup>1</sup>

Until recently little information has been available on the effect of the height, width, location, and orientation of the windows upon the lighting of a room. Also, much of the information that has been published thus far has been based upon measurements made with small models. The present study was made with a full-sized building erected especially for the purpose, actual daylight being the source of illumination. In this building, measurements were made with the ceiling and walls painted a mat white, and also a mat black, so that the effect of the light reflected from the ceiling and walls could be determined. Furthermore, at the same time that measurements of illumination were made within the building, measurements were made of the brightness of the particular portion of the sky producing the illumination within the building. Thus it has been possible for the first time to correlate illumination within an actual building with the brightness of the sky, measured out of doors, producing it, and to reduce the results to the basis of foot-candles per unit of sky brightness. Allowance was also made for the light reflected and absorbed by the glass of the window and, in the final analysis, allow-

<sup>1</sup> Studies in illumination. IV. A study of the effect of the height and width of windows and of the reflecting power of the walls and ceiling upon the natural illumination within a building. By J. E. Ives, F. L. Knowles, and L. R. Thompson. Pub. Health Bull. No. 218.

ance was made for the light lost by the obstruction of sash bars and casings, and by dirt on the glass.

The experimental building in which the studies were made is situated on a knoll on the grounds of the Department of Agriculture Experiment Farm in Arlington, Va., across the Potomac from Washington.

The building is orientated accurately north and south so that the sides face north, west, south, and east, respectively. It is built of wood, except the window sash, which is of steel. The building is 30 feet square and approximately 15 feet from the floor to the eaves.

The study was made with light from the sky alone; no investigation was made of the effect of direct sunlight entering the windows. The illumination was measured on a horizontal plane 36 inches above the floor at 36 stations within the building, for window widths of 9.75, 17.25, and 27 feet, and for window heights of 6, 9, and 12 feet for each of these widths.

From the results obtained for the three combinations used, viz, white ceiling and white walls, white ceiling and black walls, and black ceiling and black walls, the illumination has been separated into its three components—that coming directly from the window, that reflected from the ceiling, and that reflected from the walls. These three components of the illumination are shown on a distribution chart for 25 points in the room, spaced 5 feet apart, for 15 different combinations of window width and window height. The distribution chart gives the distribution of the illumination on a horizontal plane 36 inches above the floor, for any combination of window width, window height, and for reflecting powers of ceiling and walls of 0 and 78 percent. If the average brightness of the sky seen through the window is known, the intensity of the illumination at any point in a comparable room can be found by multiplying the figures on the chart by the average brightness of the sky expressed in hundreds of candles per square foot.

Figures are given showing the brightness of different portions of the clear north sky at Washington, D. C., for different times of the day and for different seasons of the year. Information is also given as to the average brightness of the sky for different regions and latitudes in the United States, for different seasons of the year and different times of the day.

A method has been developed for determining the illumination produced by light from the sky within a building having vertical windows of given dimensions, for any time of day or season of the year in the United States.

## EXTENT OF RURAL HEALTH SERVICE IN THE UNITED STATES, DECEMBER 31, 1930-DECEMBER 31, 1934

During the year 1934 data concerning the extent of rural health service were again obtained by the United States Public Health Service from State departments of health. This information has been compiled in table 1, wherein are shown, by States, the counties, townships, or districts in which the rural sections thereof were provided with health service under the administration of whole-time local health officers. The data are presented as of December 31, for the years 1930 to 1934, inclusive.

In the list for the year ended December 31, 1934, there are included all counties, townships, or districts which were operated in units directed by whole-time local health officers and maintained by the pooling of local appropriations from official sources. Counties, townships, or districts with whole-time health organizations maintained entirely by State departments of health are also included in table 1.

**TABLE 1.**—*Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31*

### ALABAMA

1930	1931	1932	1933	1934
Baldwin	Baldwin	Baldwin	Barbour	Autauga
Barbour	Barbour	Barbour	Blount	Barbour
Blount	Blount	Blount	Bullock	Blount
Bullock	Bullock	Bullock	Calhoun	Bullock
Calhoun	Calhoun	Calhoun	Chambers	Calhoun
Chambers	Chambers	Chambers	Cherokee	Chambers
Cherokee	Cherokee	Cherokee	Cleburne	Cherokee
Choctaw	Choctaw	Choctaw	Conecuh	Cleburne
Clarke	Clarke	Clarke	Covington	Colbert
Cleburne	Cleburne	Cleburne	Crenshaw	Conecuh
Coffee	Coffee	Coffee	Cullman	Covington
Colbert	Colbert	Colbert	Dale	Crenshaw
Conecuh	Conecuh	Conecuh	Dallas	Cullman
Covington	Covington	Covington	De Kalb	Dale
Crenshaw	Crenshaw	Covington	Elmore	Dallas
Cullman	Cullman	Cullman	Escambia	Elmore
Dale	Dale	Dale	Etowah	Escambia
Dallas	Dallas	Dallas	Franklin	Etowah
De Kalb	De Kalb	De Kalb	Geneva	Franklin
Elmore	Elmore	Elmore	Houston	Houston
Escambia	Escambia	Escambia	Jackson	Jackson
Etowah	Etowah	Etowah	Jefferson	Jefferson
Franklin	Franklin	Franklin	Lauderdale	Lamar
Geneva	Geneva	Geneva	Lawrence	Lauderdale
Houston	Houston	Houston	Lee	Lawrence
Jackson	Jackson	Jackson	Limestone	Lee
Jefferson	Jefferson	Jefferson	Macon	Limestone
Lamar	Lamar	Lamar	Madison	Lowndes
Lauderdale	Lauderdale	Lauderdale	Marengo	Macon
Lawrence	Lawrence	Lawrence	Marion	Madison
Lee	Lee	Lee	Marshall	Marengo
Limestone	Limestone	Limestone	Mobile	Marion
Lowndes	Lowndes	Lowndes	Monroe	Marshall
Macon	Macon	Macon	Montgomery	Mobile
Madison	Madison	Madison	Morgan	Monroe
Marengo	Marengo	Marengo	Perry	Montgomery
Marion	Marion	Marion	Pickens	Morgan
Marshall	Marshall	Marshall	Pike	Perry
Mobile	Mobile	Mobile	Shelby	Pickens
Monroe	Monroe	Monroe	Sumter	Pike
Montgomery	Montgomery	Montgomery	Talladega	Russell

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## ALABAMA—Continued

1930	1931	1932	1933	1934
Morgan Perry Pickens Pike Shelby Sumter Talladega Tallapoosa Tuscaloosa Walker Washington Wilcox Winston	Morgan Pickens Pike Shelby Sumter Talladega Tallapoosa Tuscaloosa Walker Washington Wilcox Winston	Morgan Perry Pickens Pike Shelby Sumter Talladega Tallapoosa Tuscaloosa Walker Washington Wilcox Winston	Tallapoosa Tuscaloosa Walker Washington Wilcox	Shelby Sumter Talladega Tallapoosa Tuscaloosa Walker Washington Wilcox Winston

## ARIZONA

Cochise Coconino Gila Maricopa Pima Yuma	Cochise Gila Maricopa Pima Yuma	Cochise Gila Maricopa Pima	Cochise Gila Maricopa Pima	Cochise Gila Maricopa Pima
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## ARKANSAS

Arkansas Ashley Clark Conway Cross Desha Drew Garland Jackson Jefferson Little River Lonoke Mississippi Monroe Ouachita Phillips Pope Pulaski Saline Sebastian Union White Woodruff Yell	Arkansas <sup>1</sup> Ashley Bradley Clark Cleburne Conway Crittenden Cross Desha Drew Garland Jackson Jefferson Little River Lonoke <sup>1</sup> Miller Mississippi Monroe Ouachita Perry Phillips Pope Prairie <sup>1</sup> Pulaski Saline Sebastian Union White Woodruff Yell	Arkansas <sup>1</sup> Ashley Bradley Chicot Clark Cleveland Conway Crittenden Cross Drew Garland Jackson Jefferson Lincoln Little River Lonoke <sup>1</sup> Mississippi Monroe Ouachita Phillips Pope Prairie <sup>1</sup> Pulaski Saline Sebastian Woodruff Yell	Ashley Clark Conway Crittenden Cross Faulkner Garland Jackson Jefferson Little River Lonoke Mississippi Monroe Ouachita Phillips Pope Pulaski Saline Sebastian Woodruff Yell	Ashley Clark Conway Crittenden Cross Garland Jackson Jefferson Little River Mississippi Monroe Ouachita Phillips Pope Pulaski Saline Sebastian Woodruff Yell
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<sup>1</sup> 1 district of 3 counties.

## CALIFORNIA

Contra Costa Imperial Los Angeles Madera Monterey Orange Riverside San Diego San Joaquin San Luis Obispo Santa Barbara Stanislaus Yolo	Contra Costa Imperial Los Angeles Madera Monterey Orange Riverside San Bernardino San Diego San Joaquin San Luis Obispo Santa Barbara Stanislaus Yolo	Contra Costa Imperial Los Angeles Madera Monterey Orange Riverside San Bernardino San Diego San Joaquin San Luis Obispo Santa Barbara Stanislaus Yolo	Contra Costa Imperial Los Angeles Madera Monterey Orange Riverside San Bernardino San Diego San Joaquin San Luis Obispo Santa Barbara Stanislaus	Alameda Contra Costa Imperial Los Angeles Madera Monterey Orange Riverside San Bernardino San Diego San Joaquin San Luis Obispo San Mateo Santa Barbara Stanislaus
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**TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued**

**COLORADO**

1930	1931	1932	1933	1934
Otero	Otero			

**CONNECTICUT**

Fairfield <sup>1</sup>	Fairfield <sup>1</sup>	Fairfield <sup>2</sup> West Hartford <sup>3</sup>	Fairfield <sup>2</sup> West Hartford <sup>3</sup>	Fairfield <sup>2</sup> West Hartford <sup>3</sup>
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<sup>1</sup> Township.

**DELAWARE**

Kent Newcastle Sussex	Kent Newcastle Sussex	Kent Newcastle Sussex	Kent Newcastle Sussex	Kent Newcastle Sussex
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**FLORIDA**

Leon Manatee Taylor	Leon Taylor	Escambia Leon Taylor	Escambia Leon	Escambia Leon
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**GEORGIA**

Baldwin Bartow Bibb Brooks Chatham Clarke Clinch Cobb Coffee Colquitt Decatur De Kalb Dougherty Floyd Glynn Grady Hall Jefferson Jenkins Laurens Lowndes Mitchell Richmond Spalding Sumter Thomas Troup Walker Ware Washington	Baldwin Bartow Bibb Brooks Catoosa <sup>1</sup> Chatham Chattooga <sup>2</sup> Clarke Cobb Coffee Colquitt Decatur Dade <sup>2</sup> De Kalb Dougherty De Kalb Dougherty Floyd Glynn Gordon <sup>1</sup> Grady Hall Jefferson Jenkins Laurens Lowndes Mitchell Murray <sup>1</sup> Richmond Spalding Sumter Thomas Troup Walker <sup>3</sup> Ware Washington Whitfield <sup>1</sup>	Baldwin Bartow Bibb Brooks Catoosa <sup>2</sup> Chatham Clarke Cobb Colquitt Dade <sup>2</sup> Decatur De Kalb Dougherty Floyd Fulton Glynn Grady Hall Jefferson Jenkins Laurens Lowndes Mitchell Richmond Spalding Sumter Thomas Troup Walker <sup>3</sup> Ware Washington	Baldwin Bartow Bibb Brooks Catoosa <sup>4</sup> Chatham Clarke Cobb Colquitt Decatur De Kalb Dougherty Floyd Fulton Glynn Grady Hall Jefferson Jenkins Laurens Lowndes Mitchell Richmond Spalding Sumter Thomas Troup Walker <sup>4</sup> Ware Washington	Baldwin Bartow Bibb Camden <sup>2</sup> Catoosa <sup>4</sup> Chatham Clarke Cobb Colquitt Decatur De Kalb Dougherty Floyd Glynn <sup>2</sup> Grady Hall Jefferson Jenkins Laurens Lowndes Mitchell McIntosh <sup>1</sup> Richmond Spalding Sumter Thomas Troup Walker <sup>4</sup> Ware Washington
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<sup>1</sup> Included in 1 district of 4 counties.

<sup>2</sup> Included in 1 district of 3 counties.

<sup>3</sup> Walker County also included in a tricity district.

<sup>4</sup> Included in 1 district of 2 counties.

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## IDAHO

1930	1931	1932	1933	1934
Twin Falls	Twin Falls	Twin Falls		

## ILLINOIS

Du Page	Du Page	Du Page	Du Page	Du Page
Morgan				

## IOWA

Washington	Des Moines	Des Moines	Woodbury	Woodbury
Woodbury	Washington Woodbury	Washington Woodbury		

## KANSAS

Brown	Brown	Brown	Geary	Lyon
Butler Cherokee Dickinson Geary Greenwood Lyon Marion Ottawa Sedgwick Seward Shawnee	Butler Cherokee Dickinson Geary Greenwood Lyon Marion Sedgwick Shawnee	Geary Lyon Marion Sedgwick Shawnee	Lyon Sedgwick Shawnee	Sedgwick Shawnee

## KENTUCKY

Bell	A dair	A dair	A dair	A dair
Boyd Breathitt Bullitt Calloway Carlisle Carter Davies Elliott Estill Fayette Floyd Fulton Henderson Hickman Hopkins Jefferson Kenton Knott Knox Lawrence Lee Leslie Letcher Lincoln Madison Magoffin Martin Mason McLean Menifee Monroe Morgan Muhlenberg Ohio Owsley Perry Pike Scott Trigg Union	Allen Anderson Barren Bath Bell Boyd Breathitt Bullitt Butler Caldwell Calloway Carlisle Carter Casey Clinton Davies Edmonson Elliott Estill Fayette Fleming Floyd Fulton Gallatin Grant Grayson Green Greenup Hancock Harrison Hart Henderson Hickman Hopkins Hopkins Jackson Jefferson Kenton Knott Knox Knox Laurel Laurel	Allen Anderson Barren Bath Bell Boyd Breathitt Bullitt Butler Caldwell Calloway Carlisle Carter Casey Clinton Davies Edmonson Elliott Estill Fayette Fleming Floyd Gallatin Grant Grayson Green Greenup Hart Henderson Hickman Hopkins Hopkins Jackson Jefferson Kenton Knott Knox Knox Laurel Lawrence	Allen Anderson Barren Bath Bell Boyd Breathitt Bullitt Butler Caldwell Calloway Carlisle Carter Casey Clinton Davies Edmonson Elliott Estill Fayette Fleming Floyd Gallatin Grant Grayson Green Greenup Hart Henderson Hickman Hopkins Hopkins Jackson Jefferson Kenton Knott Knox Knox Laurel Lawrence Lee	Allen Anderson Barren Bath Boyd Breathitt Butler Caldwell Calloway Carlisle Carter Casey Clinton Edmonson Elliott Estill Fayette Fleming Floyd Fulton Gallatin Grant Grayson Green Greenup Hart Henderson Hickman Hopkins Hopkins Jackson Jefferson Kenton Knott Knox Knox Laurel Lawrence Lee Leslie Letcher Lincoln

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## KENTUCKY—Continued

1930	1931	1932	1933	1934
Wayne Webster	Lawrence Lee Leslie Letcher Lewis Lincoln McCreary McLean Madison Magoffin Marshall Martin Mason Meade Menifee Metcalfe Monroe Morgan Muhlenberg Nicholas Ohio Owen Owsley Perry Pike Powell Pulaski Robertson Rockcastle Rowan Scott Todd Trigg Trimble Union Warren Wayne Webster Whitley Wolfe	Lee Leslie Letcher Lewis Lincoln McCreary McLean Madison Magoffin Marshall Martin Mason Meade Menifee Metcalfe Morgan Muhlenberg Nicholas Ohio Owsley Perry Pike Powell Pulaski Robertson Rockcastle Rowan Scott Todd Trigg Trimble Union Warren Webster Whitley Wolfe	Leslie Letcher Lincoln Madison Magoffin Marshall Martin Mason McCreary McLean Meade Menifee Muhlenberg Nicholas Ohio Owsley Perry Pike Powell Pulaski Rockcastle Rowan Scott Trigg Trimble Union Warren Wayne Webster Wolfe	Madison Marshall Martin Mason McCreary McLean Meade Menifee Metcalfe Monroe Muhlenberg Nicholas Ohio Owsley Perry Pike Powell Pulaski Rockcastle Rowan Scott Todd Trigg Trimble Union Warren Wayne Webster Wolfe

LOUISIANA<sup>1</sup>

Assumption Avoyelles Caddo Caldwell Catahoula Claiborne Concordia De Soto East Carroll Franklin Iberia Iberville Lafayette Lafourche La Salle Lincoln Madison Morehouse Natchitoches Ouachita Point Coupee Rapides Richland St. Landry St. Martin St. Mary Tensas Terrebonne Washington Webster West Carroll	Assumption Avoyelles Caddo Caldwell Catahoula Claiborne Concordia De Soto East Carroll Evangeline Franklin Iberia Iberville Lafayette Lafourche La Salle Lincoln Madison Morehouse Natchitoches Ouachita Point Coupee Rapides Richland St. Landry St. Martin St. Mary Tensas Terrebonne Washington Webster West Carroll	Assumption Avoyelles Caddo Caldwell Catahoula Claiborne Concordia De Soto East Carroll Franklin Iberia Iberville Lafayette Lafourche La Salle Lincoln Madison Morehouse Natchitoches Ouachita Point Coupee Rapides Richland St. Landry St. Martin St. Mary Tensas Terrebonne Washington Webster West Carroll	Assumption Avoyelles Caddo Caldwell Catahoula Claiborne Concordia De Soto East Carroll Franklin Iberia Iberville Lafayette Lafourche La Salle Lincoln Madison Morehouse Natchitoches Ouachita Point Coupee Rapides Richland St. Landry St. Martin St. Mary Tensas Terrebonne Washington Webster West Carroll	Assumption Avoyelles Caddo Caldwell Catahoula Claiborne Concordia De Soto East Carroll Franklin Iberia Iberville Lafayette Lafourche La Salle Lincoln Madison Morehouse Natchitoches Ouachita Point Coupee Rapides Red River Richland St. Landry St. Martin St. Mary Tensas Terrebonne Washington Webster West Carroll
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<sup>1</sup> Parishes.

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

MAINE

1930	1931	1932	1933	1934
Motbov Union † Rumford ‡ Sanford ‡ Vassalboro ‡	Bar Harbor Bucksport Cooperative Health Union † Motbov Union † Rumford ‡ Sanford ‡	Bar Harbor Cooperative Health Union † Motbov Union † Rumford ‡ Sanford ‡	Bar Harbor Cooperative Health Union † Motbov Union † Rumford ‡ Sanford ‡	Bar Harbor Cooperative Health Union † Motbov Union † Rumford ‡ Sanford ‡

† Including municipalities of Orono, Millford, Bradley, Veazie, and Old Town.

‡ Town (township) wholly or partly rural.

‡ Including towns of Avon, Chesterville, Eustis, Livermore, Phillips, Rangeley, Strong, Temple, Weld, and Wilton.

‡ Including towns of Avon, Chesterville, Dallas Pl., Eustis, Farmington, Industry, Livermore, Lang Pl., New Sharon, Rangeley, Sandy River Pl., Strong, Temple, and Weld. (Farmington, Industry, Dallas Pl., New Sharon added in 1934.)

MARYLAND

Allegany Anne Arundel Baltimore Calvert Carroll Cecil Frederick Harford Kent Montgomery Prince Georges Talbot Washington Wicomico	Allegany Anne Arundel Baltimore Calvert Carroll Cecil Dorchester Frederick Garrett Harford Kent Montgomery Prince Georges Queen Annes Talbot Washington Wicomico Worcester	Allegany Anne Arundel Baltimore Calvert Carroll Cecil Charles Dorchester Frederick Garrett Harford Howard Kent Montgomery Prince Georges Queen Annes Somerset Talbot Washington Wicomico Worcester	Allegany Anne Arundel Baltimore Calvert Carroll Cecil Charles Dorchester Frederick Garrett Harford Howard Kent Montgomery Prince Georges Queen Annes St. Marys Somerset Talbot Washington Wicomico Worcester	Allegany Anne Arundel Baltimore Calvert Caroline Carroll Cecil Charles Dorchester Frederick Garrett Harford Howard Kent Montgomery Prince Georges Queen Annes St. Marys Somerset Talbot Washington Wicomico Worcester
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MASSACHUSETTS

Barnstable	Barnstable Nashoba Southern Berkshire	Barnstable Nashoba † Southern Berkshire‡	Barnstable Nashoba † Southern Berkshire‡	Barnstable Nashoba † Southern Berkshire ‡ Berkshire ‡
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† Represents 14 towns.

‡ Represents 16 towns.

MICHIGAN

Alcona ‡ Alpena ‡ Antrim ‡ Charlevoix ‡ Cheboygan ‡ Crawford ‡ Emmet ‡ Genesee Iosco ‡ Isabella Kalkaska ‡ Kent Midland Missaukee ‡ Montmorency ‡ Oakland	Alcona ‡ Alpena ‡ Antrim ‡ Barry Charlevoix ‡ Cheboygan ‡ Crawford ‡ Emmet ‡ Genesee Iosco ‡ Isabella Kalkaska ‡ Kent Midland Missaukee ‡ Montmorency ‡	Alcona ‡ Allegan Alpena ‡ Antrim ‡ Barry Charlevoix ‡ Cheboygan ‡ Crawford ‡ Emmet ‡ Genesee Iosco ‡ Isabella Kalkaska ‡ Kent Lake † Midland	Alcona ‡ Allegan Alpena ‡ Antrim ‡ Barry Charlevoix ‡ Cheboygan ‡ Crawford ‡ Eaton Emmet ‡ Genesee Iosco ‡ Isabella Kalkaska ‡ Kent Lake †	Alcona ‡ Allegan Alpena ‡ Antrim ‡ Barry Charlevoix ‡ Cheboygan ‡ Crawford ‡ Eaton Emmet ‡ Genesee Grosse Pointe ‡ Hillsdale Iosco ‡ Isabella Kalkaska ‡
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‡ Included in 4 districts of 4 counties each.

† Included in 1 district of 3 counties.

‡ Township; includes 5 villages.

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## MICHIGAN—Continued

1930	1931	1932	1933	1934
Ogemaw † Oscoda † Otsego † Ottawa Presque Isle † Roscommon † Saginaw Wexford	Oakland Ogemaw † Oscoda † Otsego † Ottawa Presque Isle † Roscommon † Saginaw Wexford	Missaukee † Montmorency † Newaygo † Oakland Oceana † Ogemaw † Oscoda † Otsego † Ottawa Presque Isle † Roscommon † Saginaw Wexford	Midland Missaukee † Montmorency † Newaygo † Oakland Oceana † Ogemaw † Oscoda † Otsego † Ottawa Presque Isle † Roscommon † Saginaw Wexford	Kent Lake † Midland Missaukee † Montmorency † Newaygo † Oakland Oceana † Ogemaw † Oscoda † Otsego † Ottawa Presque Isle † Roscommon † Saginaw Van Buren Wexford

† Included in 4 districts of 4 counties each.

‡ Included in 1 district of 3 counties.

## MINNESOTA

St. Louis	St. Louis	St. Louis	St. Louis	St. Louis
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## MISSISSIPPI

Adams Bolivar Clarke Coahoma Copiah Forrest Hancock Harrison Hinds Holmes Humphreys Issaquena Jackson Lamar Lauderdale Lee Leflore Lincoln Monroe Pearl River Perry Sharkey Sunflower Tishomingo Union Warren Washington Yazoo	Adams Bolivar Clarke Coahoma Copiah Copiah Forrest Hancock Harrison Hinds Holmes Humphreys Humphreys Issaquena Jackson Lamar Lauderdale Lee Leflore Lincoln Monroe Pearl River Perry Pike Sharkey Sunflower Tishomingo Union Warren Washington Yazoo	Adams Bolivar Coahoma Copiah Forrest Hancock Harrison Hinds Holmes Humphreys Jackson Lamar Lauderdale Lee Leflore Lincoln Monroe Pearl River Perry Pike Sunflower Union Warren Washington Yazoo	Adams Bolivar Coahoma Forrest Hancock Harrison Hinds Holmes Humphreys Jackson Lamar Lauderdale Lee Leflore Lincoln Monroe Pearl River Pike Sharkey Sunflower Union Warren Washington Yazoo	Adams Bolivar Coahoma Copiah Forrest Hancock Harrison Hinds Holmes Humphreys Jackson Lamar Lauderdale Lee Leflore Lincoln Monroe Pearl River Pike Sharkey Sunflower Union Warren Washington Yazoo
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## MISSOURI

Boone Buchanan Dunklin Greene Jackson Marion Miller New Madrid Nodaway Pemiscot St. Francois St. Louis Scott	Boone Buchanan Dunklin Greene Jackson Marion Miller New Madrid Pemiscot St. Louis Scott	Boone Buchanan Dunklin Greene Jackson Marion Miller New Madrid Pemiscot St. Louis	Buchanan Dunklin Greene Jackson Marion Miller New Madrid Pemiscot St. Louis	Buchanan Dunklin Greene Jackson Marion Miller New Madrid St. Louis
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**TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31 —Continued**

MONTANA				
1930	1931	1932	1933	1934
Cascade Gallatin Lewis and Clark Missoula	Cascade Gallatin Lewis and Clark Missoula	Cascade Gallatin Lewis and Clark Missoula	Cascade Gallatin Lewis and Clark Missoula	Cascade Gallatin Lewis and Clark Missoula
NEW MEXICO				
Bernalillo Dona Ana Eddy Lea McKinley Santa Fe Union Valencia	Bernalillo Dona Ana Eddy Santa Fe Union Valencia	Bernalillo Dona Ana Eddy Santa Fe Union Valencia	Bernalillo Dona Ana Eddy Santa Fe Union Valencia	Bernalillo Dona Ana Eddy Santa Fe Union Valencia
NEW YORK				
Cattaraugus Cortland Suffolk Westchester	Cattaraugus Cortland Suffolk Westchester	Cattaraugus Cortland Suffolk Westchester	Cattaraugus Columbia Cortland Suffolk Westchester	Cattaraugus Columbia Cortland Suffolk Westchester
NORTH CAROLINA				
Beaufort Bertie Bladen Buncombe Cabarrus Columbus Cherokee Cumberland Crawen Cumberland Davidson Durham Edgecombe Forsyth Franklin Gaston Edgecombe Forsyth Franklin Guilford Gaston Guilford Halifax Johnston Lenoir Mecklenburg Halifax Henderson Johnston Lenoir Mecklenburg Moore New Hanover Northampton Lenoir Pitt Randolph Richmond Robeson Rowan Rutherford Pitt Randolph Richmond Robeson Rowan Rutherford Sampson Stokes Surry Robeson Rowan Rutherford Sampson Stokes Surry Vance Wake Wayne Wilkes Wilson Yadkin	Beaufort Bladen Buncombe Cabarrus Columbus Cumberland Davidson Durham Edgecombe Forsyth Franklin Gaston Guilford Halifax Johnston Lenoir Mecklenburg Moore New Hanover Northampton Lenoir Pitt Randolph Richmond Robeson Rowan Rutherford Sampson Stokes Surry Vance Wake Wayne Wilkes Wilson Yadkin	Beaufort Bladen Buncombe Cabarrus Columbus Cumberland Davidson Durham Edgecombe Forsyth <sup>1</sup> Franklin Gaston Guilford Halifax Lenoir Mecklenburg Moore New Hanover Northampton Pitt Randolph Richmond Robeson Rowan Rutherford Sampson Stokes <sup>1</sup> Surry Vance Wake Wayne Wilkes Wilson Yadkin	Beaufort Bladen Buncombe Cabarrus Columbus Cumberland Davidson Durham Edgecombe Forsyth <sup>1</sup> Franklin Gaston Guilford Halifax Lenoir Mecklenburg Moore New Hanover Northampton Pitt Randolph Richmond Robeson Rowan Rutherford Sampson Stokes <sup>1</sup> Surry Vance Wake Wayne Wilkes Wilson Yadkin	Beaufort Bertie Bladen Buncombe Cabarrus Columbus Cumberland Davidson Duplin Durham Edgecombe Forsyth <sup>1</sup> Franklin Gaston Guilford Halifax Haywood <sup>2</sup> Hyde Jackson <sup>2</sup> Lenoir Mecklenburg Moore New Hanover Northampton Pitt Randolph Richmond Robeson Rowan Rutherford Sampson Stokes <sup>1</sup> Surry Swain <sup>2</sup> Vance Wake Wayne Wilkes Wilson Yadkin <sup>1</sup>

<sup>1</sup> Included in 1 district of 3 counties.

<sup>2</sup> Included in 1 district of 3 counties.

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## OHIO

1930	1931	1932	1933	1934
Allen	Allen	Allen	Allen	Allen
Ashtabula	Ashtabula	Ashtabula	Ashtabula	Athens
Belmont	Belmont	Belmont	Belmont	Butler
Butler	Butler	Butler	Butler	Clinton
Clinton	Clinton	Clinton	Clinton	Coshocton
Columbiana	Columbiana	Columbiana	Coshocton	Crawford
Coshocton	Coshocton	Coshocton	Crawford	Cuyahoga
Crawford	Crawford	Crawford	Cuyahoga	Darke
Cuyahoga	Cuyahoga	Cuyahoga	Darke	Delaware
Darke	Darke	Darke	Delaware	Erie
Delaware	Delaware	Delaware	Erie	Fayette
Erie	Erie	Erie	Fayette	Hamilton
Fayette	Fayette	Fayette	Hamilton	Hancock
Franklin	Franklin	Franklin	Hancock	Hocking
Hamilton	Guernsey	Hamilton	Hocking	Huron
Hancock	Hamilton	Hancock	Huron	Jefferson
Hocking	Hancock	Hocking	Lorain	Lorain
Huron	Hocking	Huron	Lucas	Lucas
Jackson	Huron	Jackson	Mahoning	Mahoning
Jefferson	Jackson	Jefferson	Marion	Marion
Lorain	Jefferson	Lorain	Medina	Medina
Lucas	Lorain	Lucas	Meigs	Meigs
Mahoning	Lucas	Mahoning	Mercer	Mercer
Marion	Mahoning	Marion	Miami	Miami
Meigs	Marion	Medina	Montgomery	Montgomery
Mercer	Medina	Meigs	Perry	Perry
Miami	Mercer	Mercer	Pickaway	Pickaway
Montgomery	Meigs	Miami	Preble	Preble
Morrow	Mercer	Montgomery	Richland	Richland
Muskingum	Miami	Morrow	Ross	Ross
Perry	Montgomery	Perry	Scioto	Scioto
Pickaway	Morrow	Pickaway	Seneca	Seneca
Preble	Perry	Preble	Shelby	Shelby
Richland	Pickaway	Richland	Stark	Stark
Ross	Preble	Ross	Summit	Summit
Sandusky	Richland	Scioto	Trumbull	Trumbull
Scioto	Richland	Seneca	Tuscarawas	Tuscarawas
Seneca	Ross	Shelby	Washington	Washington
Shelby	Scioto	Stark	Wayne	Wayne
Stark	Seneca	Summit	Wood	Wood
Summit	Shelby	Trumbull		
Trumbull	Stark	Tuscarawas		
Tuscarawas	Summit	Washington		
Washington	Trumbull	Wayne		
Wayne	Tuscarawas	Wood		
Wood	Washington			

## OKLAHOMA

Carter	Carter			Le Flore
Le Flore	Le Flore			
McCurtain	McCurtain			
Muskogee	Muskogee			
Okmulgee	Okmulgee			
Ottawa	Ottawa			
Pittsburg	Pittsburg			
Pottawatomie	Pottawatomie			
Seminole	Seminole			

## OREGON

Clackamas	Clackamas	Clackamas	Clackamas	Clackamas
Coos	Coos	Coos	Jackson	Douglas
Douglas	Douglas	Douglas	Klamath	Jackson
Jackson	Jackson	Jackson	Lane	Klamath
Klamath	Klamath	Klamath	Marion	Lane
Lane	Lane	Lane	Multnomah	Marion
Marion	Marion	Marion		Multnomah
Multnomah	Multnomah			

TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued

## PENNSYLVANIA

1930	1931	1932	1933	1934
Allegheny Bucks Luzerne	Allegheny Bucks Luzerne	Allegheny Bucks Luzerne	Allegheny Bucks Luzerne	

## SOUTH CAROLINA

Aiken Anderson Beaufort Berkeley Charleston Cherokee Darlington Dillon Dorchester Fairfield Florence Georgetown Greenville Greenwood Horry Kershaw Lexington Marion Newberry Oconee Orangeburg Richland Spartanburg	Aiken Anderson Beaufort Berkeley Charleston Cherokee Darlington Dillon Dorchester Fairfield Florence Georgetown Greenville Greenwood Horry Kershaw Lexington Marion Newberry Oconee Orangeburg Pickens Richland Spartanburg	Aiken Anderson Beaufort Berkeley Charleston Cherokee Darlington Dillon Dorchester Fairfield Florence Georgetown Greenville Greenwood Horry Kershaw Lexington Marion Newberry Oconee Orangeburg Pickens Richland Spartanburg	Aiken Anderson Beaufort Berkeley Charleston Cherokee Darlington Dillon <sup>1</sup> Dorchester Fairfield Florence Georgetown Greenville Greenwood Horry Kershaw Marion <sup>1</sup> Newberry Oconee Orangeburg Pickens Richland Spartanburg	Aiken Anderson Beaufort Berkeley Charleston Cherokee Darlington Dillon <sup>1</sup> Dorchester Fairfield Florence Georgetown Greenville Greenwood Horry Kershaw Marion <sup>1</sup> Newberry Oconee Orangeburg Pickens Richland Spartanburg
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<sup>1</sup> Included in 1 district of 2 counties.

## SOUTH DAKOTA

Pennington	Pennington	Pennington	Pennington	
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## TENNESSEE

Bledsoe Blount Bradley Carter Clay Davidson Dyer Fentress Gibson Giles Greene Grundy Hamilton Hardeman Humphreys Jackson Knox Lake Lauderdale Lewis Lincoln Maury Meigs Monroe Montgomery Obion Overton Pickett Rhea Roane	Bledsoe <sup>1</sup> Blount Bradley Carter Clay <sup>2</sup> Cumberland Davidson <sup>3</sup> Dyer Fentress <sup>3</sup> Gibson Giles Greene Grundy <sup>3</sup> Hamilton Hardeman Humphreys Jackson <sup>3</sup> Knox Lake Lauderdale Lewis Lincoln Maury Meigs <sup>3</sup> Monroe Montgomery Obion Overton <sup>3</sup> Pickett <sup>3</sup> Rhea <sup>3</sup>	Bledsoe <sup>1</sup> Bradley Carter Clay <sup>2</sup> Davidson <sup>3</sup> Dyer Fentress <sup>3</sup> Gibson Giles Greene Grundy <sup>3</sup> Hamilton Hardeman Humphreys Jackson <sup>3</sup> Knox Lake Lauderdale Lewis Lincoln Maury Meigs <sup>3</sup> Monroe Montgomery Obion Oberton <sup>3</sup> Pickett <sup>3</sup> Rhea <sup>3</sup> Roane Rutherford	Bledsoe Bradley Davidson Dyer Fentress <sup>4</sup> Gibson Giles Greene Grundy <sup>4</sup> Hamilton Hardeman Humphreys Jackson <sup>4</sup> Knox Lake Lauderdale Lincoln Maury Meigs <sup>4</sup> Montgomery Obion Rhea <sup>4</sup> Roane Rutherford Sequatchie <sup>4</sup> Sevier Shelby Sullivan Sumner Tipton	Anderson <sup>5</sup> Bledsoe <sup>5</sup> Blount Bradley Campbell <sup>5</sup> Carter <sup>5</sup> Davidson Dyer Fentress <sup>5</sup> Gibson Giles Greene Grundy Hamilton Hardeman Humphreys Jackson <sup>5</sup> Knox Lake Lauderdale Lincoln Maury Meigs <sup>5</sup> Montgomery Obion Overton Pickett <sup>5</sup> Rhea <sup>5</sup> Roane Sevier
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<sup>1</sup> Included in 1 district of 3 counties.

<sup>2</sup> Included in 4 districts of 2-counties each.

<sup>3</sup> Included in 3 districts of 2 counties each.

<sup>4</sup> Included in 5 districts of 2 counties each.



**TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued**

## TENNESSEE—Continued

1930	1931	1932	1933	1934
Rutherford Sequatchie Sevier Shelby Sullivan Sumner Tipton Unicoi Washington Weakley Williamson Wilson	Roane Rutherford Sequatchie <sup>1</sup> Sevier Shelby Sullivan Sumner Tipton Unicoi Washington Weakley Williamson Wilson	Sequatchie <sup>1</sup> Sevier Shelby Sullivan Sumner Tipton Unicoi Washington Weakley Williamson Wilson	Washington Weakley Williamson Wilson	Shelby Sullivan Sumner Tipton Unicoi <sup>1</sup> Washington Weakley Williamson Wilson

<sup>1</sup> Included in 1 district of 3 counties.  
<sup>2</sup> Included in 5 districts of 2 counties each.

## TEXAS

Cameron Hidalgo Jefferson McLennan Nolan Potter Tarrant	Cameron <sup>1</sup> Cass Hidalgo <sup>1</sup> Jefferson McLennan Nolan Potter Starr <sup>1</sup> Willacy <sup>1</sup>	Cameron Gregg Hidalgo McLennan Nolan Potter Starr Tarrant	Dallas El Paso Gregg Hidalgo McLennan Nolan Potter Tarrant	Dallas El Paso Gregg Hidalgo Nolan Potter Tarrant
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<sup>1</sup> Included in 1 district of 4 counties.

## UTAH

Davis Utah	Davis Utah	Davis Utah	Davis Utah	Davis Utah
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## VIRGINIA

Accomac Albemarle Amelia <sup>1</sup> Appomattox <sup>1</sup> Arlington Augusta Brunswick Buckingham <sup>1</sup> Charlotte <sup>1</sup> Cumberland <sup>1</sup> Fairfax Greensville Halifax Henrico Isle of Wight Lunenburg <sup>1</sup> Nansemond <sup>1</sup> Norfolk Northampton Nottoway <sup>1</sup> Powhatan <sup>1</sup> Prince Edward <sup>1</sup> Princess Anne Rockbridge Southampton Wise	Accomac <sup>1</sup> Albemarle Amelia <sup>1</sup> Appomattox <sup>1</sup> Arlington Augusta Brunswick <sup>1</sup> Buckingham <sup>1</sup> Charlotte <sup>1</sup> Cumberland <sup>1</sup> Fairfax Greensville <sup>1</sup> Halifax Henrico Isle of Wight <sup>1</sup> Lunenburg <sup>1</sup> Nansemond <sup>1</sup> Norfolk <sup>1</sup> Northampton <sup>1</sup> Nottoway <sup>1</sup> Pittsylvania Powhatan <sup>1</sup> Prince Edward <sup>1</sup> Princess Anne <sup>1</sup> Rockbridge Southampton Wise	Accomac <sup>1</sup> Albemarle Amelia <sup>1</sup> Appomattox <sup>1</sup> Arlington Augusta Brunswick <sup>1</sup> Halifax Henrico Isle of Wight <sup>1</sup> Nansemond <sup>1</sup> Norfolk <sup>1</sup> Pittsylvania Prince Edward Princess Anne <sup>1</sup> Rockbridge Southampton	Albemarle Arlington Augusta Brunswick <sup>1</sup> Fairfax Greensville <sup>1</sup> Halifax Henrico Isle of Wight <sup>1</sup> Nansemond <sup>1</sup> Norfolk <sup>1</sup> Pittsylvania Prince Edward Princess Anne <sup>1</sup> Rockbridge Southampton	Albemarle Arlington Augusta Brunswick <sup>1</sup> Fairfax Greensville <sup>1</sup> Halifax Henrico Isle of Wight <sup>1</sup> Nansemond <sup>1</sup> Norfolk <sup>1</sup> Nottoway <sup>1</sup> Pittsylvania Prince Edward <sup>1</sup> Princess Anne <sup>1</sup> Rockbridge Southampton
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<sup>1</sup> Included in 1 district of 9 counties.  
<sup>2</sup> Included in 4 districts of 2 counties each.  
<sup>3</sup> Included in 3 districts of 2 counties each.

**TABLE 1.—Counties, townships, or districts in the United States in which rural sections were provided with health service under whole-time health officers each year from 1930 to 1934, as of Dec. 31—Continued**

WASHINGTON

1930	1931	1932	1933	1934
Chelan Clark King Snohomish Spokane Walla Walla Whitman Yakima	Chelan Clark King Snohomish Spokane Walla Walla Whitman Yakima	Chelan Clark King Snohomish Spokane Walla Walla Whitman Yakima	Chelan Clark King Snohomish Spokane Walla Walla Whitman Yakima	Chelan Clark King Snohomish Spokane Walla Walla Whitman Yakima

WEST VIRGINIA

Berkeley Boone Brooke Fayette Gilmer Hancock Harrison Kanawha Logan Marion Marshall Monongalia Ohio Preston Raleigh Wood	Berkeley Boone Brooke Doddridge <sup>4</sup> Fayette Hancock Harrison Kanawha Logan Marion Marshall Monongalia Ohio Pleasants <sup>4</sup> Preston Raleigh Ritchie <sup>4</sup> Tyler <sup>4</sup> Wetzel <sup>4</sup> Wood	Berkeley Boone Brooke Fayette Hancock Harrison Kanawha Logan Marion Marshall Monongalia Ohio Preston Raleigh Wood	Berkeley Boone Fayette Hancock Harrison Kanawha Logan Marshall Monongalia Ohio Preston Raleigh Wood	Berkeley Boone Fayette Hancock Harrison Kanawha Logan Marshall Monongalia Ohio Preston Raleigh Wood
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<sup>4</sup>Included in 1 district of 5 counties.

Table 2, a résumé of table 1, indicates the number of whole-time county, township, or district health units in each of 38 States during the years 1930-34, inclusive. There is also shown the increase or decrease from year to year of whole-time units in each of these States. It will be noted that there was a gain of 10 whole-time units in 1934 over 1933.

**TABLE 2.—Résumé of table 1, showing the total number of counties, townships, or districts having whole-time health service for each year from 1930 to 1934 (as of Dec. 31), with increase or decrease in the number of such units during these years**

	Number of counties					Increase or decrease in—			
	Jan. 1, 1931	Jan. 1, 1932	Dec. 31, 1932	Dec. 31, 1933	Dec. 31, 1934	1931	1932	1933	1934
Alabama.....	54	54	54	46	50	-----	-----	-8	+4
Arizona.....	6	5	4	4	4	-1	-1	-----	-----
Arkansas.....	24	30	27	21	19	+6	-3	-6	-2
California.....	13	14	14	13	15	+1	-----	-1	+2
Colorado.....	1	1	-----	-----	-----	-----	-1	-----	-----
Connecticut.....	1	1	2	2	2	-----	+1	-----	-----
Delaware.....	3	3	3	3	3	-----	-----	-----	-----
Florida.....	3	2	3	2	2	-1	+1	-1	-----
Georgia.....	30	35	31	30	30	+5	-4	-1	-----
Idaho.....	1	1	-----	-----	-----	-----	-----	-1	-----
Illinois.....	2	1	1	1	1	-1	-----	-----	-----
Iowa.....	2	3	3	1	1	+1	-----	-2	-----

TABLE 2.—*Résumé of table 1, showing the total number of counties, townships, or districts having whole-time health service for each year from 1930 to 1934 (as of Dec. 31), with increase or decrease in the number of such units during these years—Continued*

	Number of counties					Increase or decrease in—			
	Jan. 1, 1931	Jan. 1, 1932	Dec. 31, 1932	Dec. 31, 1933	Dec. 31, 1934	1931	1932	1933	1934
Kansas.....	12	10	6	4	3	-2	-4	-2	-1
Kentucky.....	43	81	79	73	70	+38	-2	-6	-3
Louisiana.....	31	32	31	31	32	+1	-1		+1
Maine.....	4	6	5	5	5	+2	-1		
Maryland.....	14	18	21	22	23	+4	+3	+1	+1
Massachusetts.....	1	3	3	3	3	+2			
Michigan.....	24	25	29	30	32	+1	+4	+1	+2
Minnesota.....	1	1	1	1	1				
Mississippi.....	28	29	25	24	25	+1	-4	-1	+1
Missouri.....	13	11	10	9	8	-2	-1	-1	-1
Montana.....	4	4	4	4	4				
New Mexico.....	8	6	6	6	6	-2			
New York.....	4	4	4	5	5			+1	
North Carolina.....	39	36	35	36	41	-3	-1	+1	+5
Ohio.....	46	46	45	40	38		-1	-5	-2
Oklahoma.....	9	9			1		-9		+1
Oregon.....	6	8	7	6	7		-1	-1	+1
Pennsylvania.....	3	3	3	3					-3
South Carolina.....	23	24	24	23	23	+1		-1	
South Dakota.....	1	1	1	1					-1
Tennessee.....	42	43	41	34	39	+1	-2	-7	+5
Texas.....	7	9	8	8	7	+2	-1		-1
Utah.....	2	2	2	2	2				
Virginia.....	26	27	25	16	17	+1	-2	-9	+1
Washington.....	8	8	8	8	8				
West Virginia.....	16	20	15	13	13	+4	-5	-2	
Total.....	557	616	581	530	540	+59	-35	-51	+10

The accompanying map shows the location of the counties, townships, or districts in the United States with health service for rural areas, under the direction of whole-time local health officers, on December 31, 1934.

From January 1, 1934, to December 31, 1934, whole-time health service was established in 24 units and was discontinued in 14—a net gain of 10. The greatest gains were in the States of Tennessee and North Carolina, in each of which whole-time health service was established in 5 counties.

Delaware and Maryland lead in the percentage of rural population under whole-time health service, all of their counties having been provided with whole-time local health organizations. The health units in Delaware have been provided by the State, whereas those in Maryland are maintained by the local governments, with or without assistance from the State health department or other sources.

Table 3 presents, by States, the percentage of rural population having health service under the direction of local whole-time health officers at the end of the calendar year 1934.

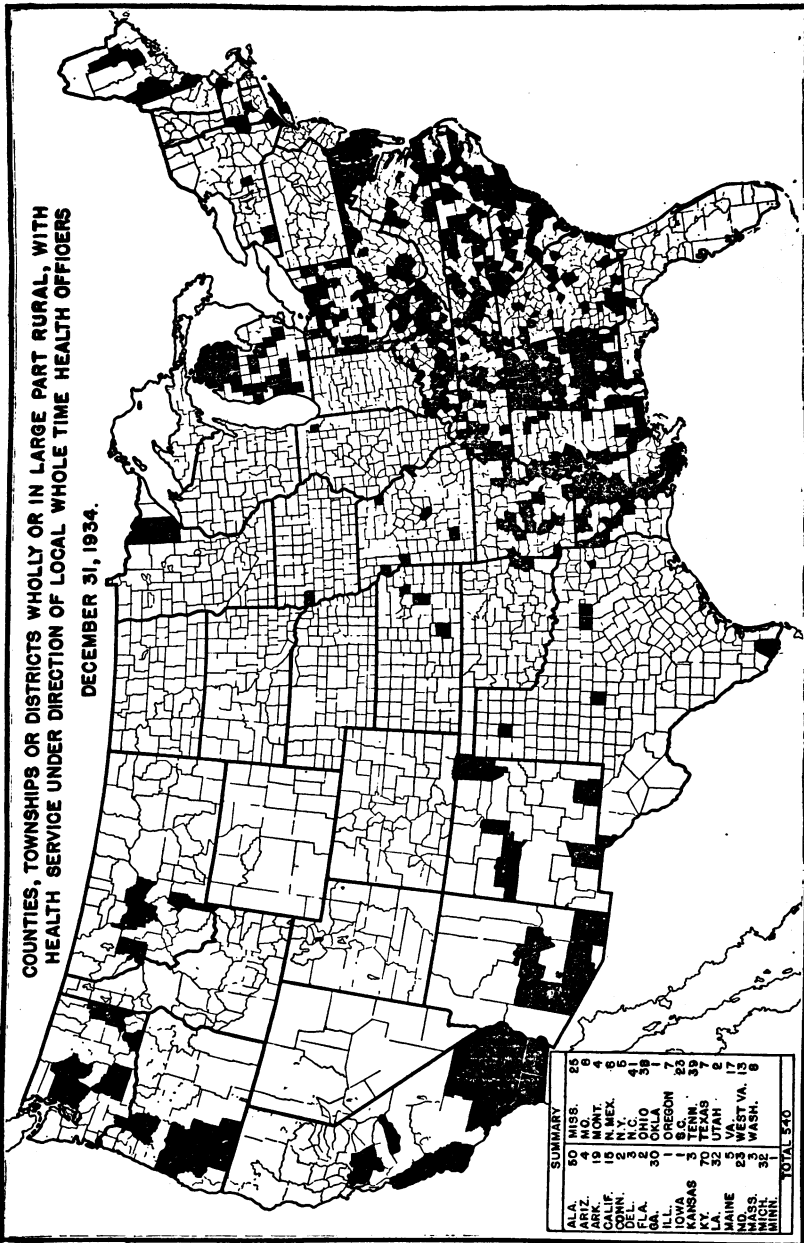


FIGURE 1.—Rural areas having whole-time health officers on December 31, 1934.

TABLE 3.—Percentage of rural population having on Dec. 31, 1934, health service under whole-time local health officers

State	Rural population as of Dec. 31, 1934 (estimate from 1930 census)	Rural population with local health service under direction of whole-time health officers	Percentage of rural population with local health service under direction of whole-time health officers
Alabama.....	1,931,224	1,543,141	79.9
Arizona.....	317,729	180,913	56.9
Arkansas.....	1,476,190	500,492	33.9
California.....	1,711,969	1,452,917	84.9
Colorado.....	529,597	0	0.0
Connecticut.....	489,424	52,276	10.7
Delaware.....	121,258	121,258	100.0
Florida.....	752,822	36,653	4.9
Georgia.....	1,013,016	251,251	12.5
Idaho.....	316,774	0	0.0
Illinois.....	11,994,927	27,105	1.4
Indiana.....	11,442,611	0	0.0
Iowa.....	11,491,647	23,200	1.6
Kansas.....	11,151,165	64,919	5.6
Kentucky.....	1,830,613	1,154,785	63.1
Louisiana.....	1,313,343	746,543	56.8
Maine.....	479,380	59,520	12.4
Maryland.....	692,069	692,069	100.0
Massachusetts.....	518,319	70,587	13.6
Michigan.....	1,592,799	585,603	36.8
Minnesota.....	11,306,337	48,313	3.7
Mississippi.....	1,728,798	685,701	39.7
Missouri.....	11,770,248	340,256	19.2
Montana.....	1,356,570	35,139	9.9
Nebraska.....	892,223	0	0.0
Nevada.....	156,594	0	0.0
New Hampshire.....	205,603	0	0.0
New Jersey.....	711,881	0	0.0
New Mexico.....	326,284	90,864	27.8
New York.....	2,191,571	323,358	14.8
North Carolina.....	2,495,592	1,372,794	55.0
North Dakota.....	571,667	0	0.0
Ohio.....	2,165,772	1,130,376	52.2
Oklahoma.....	1,614,005	49,676	3.1
Oregon.....	497,252	225,542	45.4
Pennsylvania.....	1,097,139	0	0.0
Rhode Island.....	69,145	0	0.0
South Carolina.....	1,367,685	836,254	61.1
South Dakota.....	574,578	0	0.0
Tennessee.....	11,720,018	893,232	51.9
Texas.....	3,567,356	181,845	5.1
Utah.....	245,184	30,838	12.6
Vermont.....	1,240,845	0	0.0
Virginia.....	1,636,820	426,736	26.1
Washington.....	711,745	318,932	44.8
West Virginia.....	1,303,971	530,735	40.7
Wisconsin.....	11,385,163	0	0.0
Wyoming.....	164,002	0	0.0
Total.....	55,138,963	15,063,823	27.4

<sup>1</sup> 1930 census; no estimate made for Dec. 31, 1934.

Of the 540 counties, townships, or districts with health service under whole-time local health officers at the end of the present calendar year, 507, or 93.9 percent, were receiving financial assistance for the support of their health service from one or more of the following agencies: The State board of health, the United States Public Health Service, the Rockefeller Foundation, the American Red Cross, the American Women's Hospital Fund, the Rosenwald Fund, the Commonwealth Fund, and the Milbank Memorial Fund.

The accompanying chart shows, by States, the number of counties, townships, or districts with health service under the direction of whole-time local health officers from 1930-34, and the percentage of the rural population of each State receiving such service at the close of the calendar year 1934. There also is shown the total number of

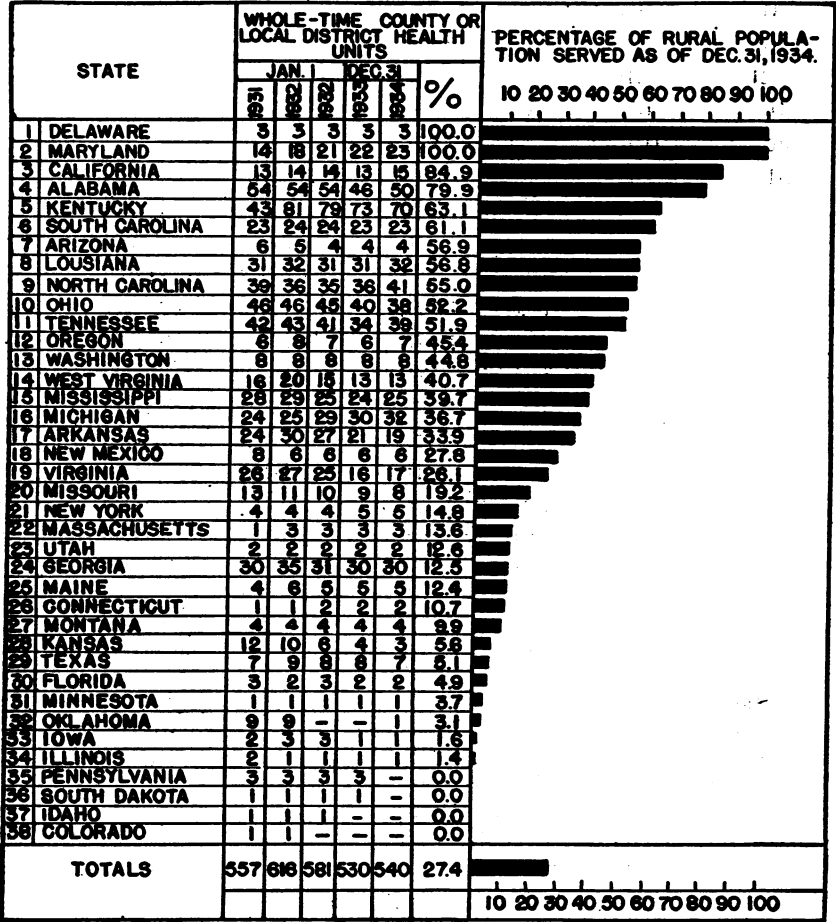


FIGURE 2.—Number of whole-time county or local health units, by States, 1931-34, and percentage of rural population served on December 31, 1934.

counties, townships, or districts in the United States having whole-time local health service, together with the percentage of the rural population of the entire United States served by whole-time local health organizations.

It will be noted that 72.6 percent of our rural population is as yet not provided with the form of health organization which is believed to be adapted to rural areas.

## COURT DECISION ON PUBLIC HEALTH

*Ordinance requiring sewer connections and declaring privy vaults, etc., to be nuisances upheld.*—(Kentucky Court of Appeals; *Nourse v. City of Russellville et al.*, 78 S. W. (2d) 761; decided Jan. 29, 1935.) The city of Russellville, after contracting for the construction of a sewer system, passed an ordinance premised upon the declaration that the construction of the sewer system and the abolition of privy vaults, etc., were necessary in order to protect the public health and promote the general welfare. The ordinance, among other things, required connection with the sewerage system where the premises abutted upon any street, etc., in which there was a line of the system, made unlawful the maintenance of privy vaults, etc., on premises abutting the sewer, and declared such vaults, etc., to be nuisances. The plaintiff sued to enjoin the city and its officers from enforcing the ordinance and for a declaration of rights.

The court of appeals, after reviewing pertinent statutory provisions, stated that they “clearly and expressly empower the city to abate nuisances and to build sewers and charge the cost of the latter to those who use them.” “The particular questions, however,” said the court, “are whether the city has the charter right or the inherent power (a) to declare these structures and their use to be nuisances without affording the respective owners a hearing, and (b) to compel attachment to the sewer system.” The conclusion was reached that the ordinance was valid. In the course of the opinion it was said:

The science of sanitation has developed and taught much in recent years. It has demonstrated that nothing contributes more to secure the preservation of public health than a sanitary system of sewerage disposal, whether it be the modern sewers or septic closets. The benefits of such system are largely lost, unless the inhabitants can be compelled to abandon the menacing structures and to connect their facilities with the system. The community is to be considered as a whole in the matter of preservation of the health of all inhabitants, for a failure by a few to conform to sanitary measures may inflict ill health and death upon many. A spark of contamination may become a conflagration of disease. So the courts pretty generally hold that a legislative body may declare privy vaults and such unsanitary facilities in thickly settled communities to be nuisances and require their abatement without challenging each one or giving the owner notice and an opportunity to show that it is not in fact a nuisance. Owners are not heard to say that these things are not injurious to health and comfort and that they only become so when not properly cared for, or that their abuse or carelessness alone make them subject to police regulation and repression, for the same might be said of the storage of gunpowder, fire traps, and many other activities and conditions recognized as per se inimical or dangerous in thickly settled communities. \* \* \*

**DEATHS DURING WEEK ENDED OCT. 12, 1935**

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

	Week ended Oct. 12, 1935	Correspond- ing week, 1934
<b>Data from 86 large cities of the United States:</b>		
Total deaths.....	7,548	7,348
Deaths per 1,000 population, annual basis.....	10.5	10.2
Deaths under 1 year of age.....	468	544
Deaths under 1 year of age per 1,000 estimated live births.....	43	51
Deaths per 1,000 population, annual basis, first 41 weeks of year.....	11.4	11.4
<b>Data from industrial insurance companies:</b>		
Policies in force.....	67,711,405	67,018,610
Number of death claims.....	11,077	9,445
Death claims per 1,000 policies in force, annual rate.....	8.5	7.3
Death claims per 1,000 policies, first 41 weeks of year, annual rate.....	9.7	9.9



# 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 Oct. 19, 1935, and Oct. 20, 1934

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Oct. 19, 1935, and Oct. 20, 1934

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934
<b>New England States:</b>								
Maine.....	1	1			31	1	0	0
New Hampshire.....		1				1	0	0
Vermont.....					30	1	0	0
Massachusetts.....	10	26			38	27	1	1
Rhode Island.....		2			8	2	1	0
Connecticut.....	5	1	2	1	30	46	0	0
<b>Middle Atlantic States:</b>								
New York.....	30	24	10	13	144	146	12	1
New Jersey.....	13	26	9	37	15	19	0	1
Pennsylvania.....	54	68			45	338	5	3
<b>East North Central States:</b>								
Ohio.....	65	94	20	4	31	61	7	4
Indiana.....	89	87	17	18	5	41	1	2
Illinois.....	66	61	9	11	15	70	6	8
Michigan.....	13	8	4		36	35	1	2
Wisconsin.....	5	11	30	12	40	103	1	1
<b>West North Central States:</b>								
Minnesota.....	17	6	1	1	8	78	0	0
Iowa.....	8	16				15	0	0
Missouri.....	64	88	56	24	9	53	4	3
North Dakota.....	4	5	5		9	19	1	1
South Dakota.....	11	3	1		8	7	0	1
Nebraska.....	15	14			3	22	0	0
Kansas.....	23	18			2	35	2	1
<b>South Atlantic States:</b>								
Delaware.....	1	2			7	2	0	0
Maryland.....	18	16	10	4	10	10	4	0
District of Columbia.....	6	7	1			2	2	0
Virginia.....	66	114			9	44	4	0
West Virginia.....	53	91	15	18	5	37	1	2
North Carolina.....	119	104	8	4	3	10	4	0
South Carolina.....	26	25	169	172	3	3	1	0
Georgia.....	33	81					1	0
Florida.....	18	13	2	1	9	1	0	0

See footnotes at end of table.

(1559)

## Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Oct. 19, 1935, and Oct. 20, 1934—Continued

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934
<b>East South Central States:</b>								
Kentucky.....	59	82	10	12	51	35	1	2
Tennessee.....	88	91	4	19	15	15	1	1
Alabama <sup>1</sup> .....	43	78	25	11	3	25	1	0
Mississippi <sup>2</sup> .....	25	30					0	3
<b>West South Central States:</b>								
Arkansas.....	17	19	10	5	1		0	0
Louisiana <sup>3</sup> .....	26	32	8	5	3	12	3	0
Oklahoma <sup>4</sup> .....	9	18	37	11	2	1	0	3
Texas <sup>5</sup> .....	130	47	130	116	3	11	1	0
<b>Mountain States:</b>								
Montana.....	1			1	27	47	0	0
Idaho.....		1	1	1	1	1	0	0
Wyoming.....	1	1			20		3	0
Colorado.....	13	11			3	18	0	2
New Mexico.....	14	3		2	13	60	0	0
Arizona.....	1	4	20	3		7	0	0
Utah <sup>2</sup> .....					1	5	0	0
<b>Pacific States:</b>								
Washington.....	2				53	162	0	1
Oregon.....	1	5	15	20	162	2	0	0
California.....	65	32	30	14	116	144	3	3
<b>Total.....</b>	<b>1,328</b>	<b>1,467</b>	<b>654</b>	<b>530</b>	<b>1,012</b>	<b>1,774</b>	<b>72</b>	<b>46</b>
<b>First 42 weeks of year.....</b>	<b>26,026</b>	<b>28,206</b>	<b>108,230</b>	<b>53,443</b>	<b>701,383</b>	<b>676,125</b>	<b>4,727</b>	<b>1,899</b>

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934
<b>New England States:</b>								
Maine.....	8	1	14	29	0	0	2	2
New Hampshire.....	2	0	3		0	0	0	1
Vermont.....	2	0	7	8	0	0	0	0
Massachusetts.....	47	1	149	136	0	0	4	4
Rhode Island.....	9	0	5	14	0	0	0	0
Connecticut.....	17	0	24	24	0	0	5	1
<b>Middle Atlantic States:</b>								
New York.....	84	6	321	206	0	0	20	25
New Jersey.....	26	1	75	96	0	0	3	10
Pennsylvania.....	13	5	297	308	0	0	42	18
<b>East North Central States:</b>								
Ohio.....	3	18	303	388	0	1	24	19
Indiana.....	3	3	125	145	1	1	7	6
Illinois.....	7	10	399	336	2	1	17	43
Michigan.....	16	13	135	184	0	0	10	22
Wisconsin.....	1	16	383	399	9	2	7	3
<b>West North Central States:</b>								
Minnesota.....	3	4	176	53	0	73	4	4
Iowa.....	7	1	93	65	2	0	7	13
Missouri.....	1	0	132	76	6	0	11	24
North Dakota.....	1	1	32	16	0	0	1	0
South Dakota.....	0	0	34	15	2	0	1	0
Nebraska.....	0	1	57	18	6	2	1	1
Kansas.....	0	1	80	52	0	1	8	5
<b>South Atlantic States:</b>								
Delaware.....	0	0	5	7	0	0	6	1
Maryland <sup>1</sup> .....	3	1	63	93	0	0	18	11
District of Columbia.....	1	0	14	31	0	0	2	0
Virginia.....	7	2	60	103	0	0	6	33
West Virginia.....	1	3	137	121	0	0	12	26
North Carolina <sup>2</sup> .....	8	1	95	132	0	1	5	11
South Carolina <sup>3</sup> .....	1	1	17	6	0	0	6	11
Georgia <sup>4</sup> .....	0	2	25	22	0	0	8	29
Florida <sup>5</sup> .....	0	0	3	1	0	0	3	1

See footnotes at end of table.

*Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Oct. 19, 1935, and Oct. 20, 1934—Continued*

Division and State	Polio-myelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934	Week ended Oct. 19, 1935	Week ended Oct. 20, 1934
<b>East South Central States:</b>								
Kentucky.....	13	4	104	62	0	3	19	25
Tennessee.....	0	3	83	78	0	0	23	12
Alabama <sup>1</sup> .....	1	1	20	35	0	0	4	11
Mississippi <sup>1</sup> .....	1	0	28	28	0	0	8	3
<b>West South Central States:</b>								
Arkansas.....	2	0	12	5	0	0	5	7
Louisiana <sup>1</sup> .....	3	1	10	16	0	0	13	10
Oklahoma <sup>4</sup> .....	0	0	11	10	0	0	11	22
Texas <sup>1</sup> .....	3	13	62	38	5	2	38	31
<b>Mountain States:</b>								
Montana.....	1	6	77	9	2	1	3	4
Idaho.....	0	2	21	3	0	1	0	4
Wyoming.....	0	0	32	10	0	0	0	0
Colorado.....	0	1	89	71	0	0	3	5
New Mexico.....	0	0	16	14	0	0	35	18
Arizona.....	1	2	8	15	0	0	2	9
Utah <sup>2</sup> .....	1	1	56	29	0	0	0	2
<b>Pacific States:</b>								
Washington.....	2	25	51	41	4	23	4	7
Oregon.....	5	4	50	48	0	0	2	0
California.....	20	38	154	178	2	0	12	14
<b>Total.....</b>	<b>324</b>	<b>193</b>	<b>4, 147</b>	<b>3, 774</b>	<b>41</b>	<b>112</b>	<b>422</b>	<b>508</b>
<b>First 42 weeks of year.....</b>	<b>9, 616</b>	<b>6, 487</b>	<b>198, 862</b>	<b>166, 278</b>	<b>5, 606</b>	<b>4, 073</b>	<b>14, 931</b>	<b>17, 531</b>

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

<sup>2</sup> Week ended earlier than Saturday.

<sup>3</sup> Typhus fever, week ended Oct. 19, 1935, 39 cases, as follows: North Carolina, 2; South Carolina, 1; Georgia, 10; Florida, 1; Alabama, 11; Louisiana, 1; Texas, 13.

<sup>4</sup> Exclusive of Oklahoma City and Tulsa.

## SUMMARY OF MONTHLY REPORTS FROM STATES

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

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Mala- ria	Meas- les	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Typhoid fever
<i>September 1935</i>										
Alabama.....	5	178	80	1, 617	20	36	4	53	0	74
Idaho.....		3	14		16		0	76	1	21
Illinois.....	14	193	29	47	73		67	791	1	133
Maryland.....	1	36	11	8	18		35	104	0	78
Michigan.....	8	61	8	17	89		225	265	0	73
Minnesota.....	5	33	4	3	143		32	257	1	36
Missouri.....	5	184	205	357	90		10	248	0	90
New Jersey.....	9	43	18	75	43		223	124	0	36
New York.....	4	211	17		43	48	50	220	2	99
North Carolina.....	4	13	1		19		3	44	6	8
North Dakota.....	1				6		21	588	2	161
Ohio.....	9	142	79	17	66		2	51	12	8
South Dakota.....	1	5	1		1					8
West Virginia.....	4	191	108	1	19		11	262	0	84

September 1935

September 1935—Continued

September 1935—Continued

	Cases
<b>Anthrax:</b>	
New Jersey.....	1
South Dakota.....	1
<b>Chicken pox:</b>	
Alabama.....	7
Idaho.....	5
Illinois.....	118
Maryland.....	23
Michigan.....	122
Minnesota.....	75
Missouri.....	29
New Jersey.....	110
North Carolina.....	17
North Dakota.....	11
Ohio.....	159
South Dakota.....	24
West Virginia.....	19
<b>Conjunctivitis:</b>	
Maryland.....	1
<b>Dengue:</b>	
Alabama.....	1
<b>Diarrhea:</b>	
Maryland.....	76
Ohio (and enteritis) (under 2 years).....	26
<b>Dysentery:</b>	
Illinois (amoebic).....	10
Illinois (bacillary).....	15
Illinois (amoebic carriers).....	22
Maryland.....	28
Michigan (amoebic).....	1
Michigan (bacillary).....	4
Minnesota (bacillary).....	3
Missouri.....	11
New Jersey (bacillary).....	2
Ohio (amoebic).....	2
Ohio (bacillary).....	3
<b>Epidemic encephalitis:</b>	
Alabama.....	5
Illinois.....	13
Maryland.....	2
Michigan.....	1
Minnesota.....	1
Missouri.....	9
New Jersey.....	4
North Dakota.....	1
Ohio.....	1
<b>Food poisoning:</b>	
Ohio.....	13
<b>German measles:</b>	
Alabama.....	2
Illinois.....	26
Maryland.....	10
Michigan.....	31
New Jersey.....	26
North Carolina.....	9
Ohio.....	16

	Cases
<b>Impetigo contagiosa:</b>	
Illinois.....	6
Maryland.....	42
South Dakota.....	2
<b>Lead poisoning:</b>	
Michigan.....	3
Ohio.....	4
<b>Mumps:</b>	
Alabama.....	19
Idaho.....	4
Illinois.....	145
Maryland.....	22
Michigan.....	57
Missouri.....	55
New Jersey.....	95
North Dakota.....	122
Ohio.....	219
South Dakota.....	43
West Virginia.....	8
<b>Ophthalmia neonatorum:</b>	
Alabama.....	4
Illinois.....	8
Maryland.....	4
Missouri.....	1
North Carolina.....	1
Ohio.....	81
<b>Paratyphoid fever:</b>	
Illinois.....	5
Michigan.....	2
New Jersey.....	3
North Carolina.....	4
Ohio.....	4
<b>Puerperal septicemia:</b>	
Illinois.....	3
Ohio.....	2
<b>Rabies in animals:</b>	
Illinois.....	18
Michigan.....	1
Missouri.....	3
New Jersey.....	8
<b>Rabies in man:</b>	
Alabama.....	1
West Virginia.....	1
<b>Rocky Mountain spotted fever:</b>	
Idaho.....	2
Maryland.....	1
North Carolina.....	5
<b>Septic sore throat:</b>	
Idaho.....	5
Illinois.....	2
Maryland.....	9
Michigan.....	15
Minnesota.....	4
Missouri.....	29
North Carolina.....	13
Ohio.....	81
West Virginia.....	1

	Cases
<b>Tetanus:</b>	
Alabama.....	7
Illinois.....	3
Maryland.....	2
Michigan.....	2
Minnesota.....	2
Missouri.....	2
New Jersey.....	2
Ohio.....	3
<b>Trachoma:</b>	
Illinois.....	39
Missouri.....	130
New Jersey.....	2
North Carolina.....	2
Ohio.....	4
South Dakota.....	7
<b>Trichinosis:</b>	
Maryland.....	2
Ohio.....	1
<b>Tularaemia:</b>	
Illinois.....	1
Minnesota.....	5
North Carolina.....	3
<b>Typhus fever:</b>	
Alabama.....	27
Illinois.....	1
Maryland.....	3
New Jersey.....	1
North Carolina.....	7
West Virginia.....	1
<b>Undulant fever:</b>	
Alabama.....	6
Illinois.....	16
Maryland.....	1
Michigan.....	7
Minnesota.....	6
Missouri.....	7
New Jersey.....	6
North Carolina.....	8
Ohio.....	5
West Virginia.....	1
<b>Vincent's infection:</b>	
Maryland.....	13
Michigan.....	17
North Dakota.....	7
West Virginia.....	6
<b>Whooping cough:</b>	
Alabama.....	51
Idaho.....	1
Illinois.....	769
Maryland.....	91
Michigan.....	896
Minnesota.....	83
Missouri.....	77
New Jersey.....	481
North Carolina.....	251
North Dakota.....	20
Ohio.....	480
South Dakota.....	50
West Virginia.....	63

## WEEKLY REPORT FROM CITIES

City reports for week ended Oct. 12, 1935

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Small-pox cases	Tuberculosis deaths	Typhoid fever cases	Whooping cough cases	Deaths, all causes
		Cases	Deaths								
<b>Maine:</b>											
Portland.....	0		0	0	1	5	0	1	0	4	23
<b>New Hampshire:</b>											
Concord.....	2		0	0	1	1	0	3	0	0	11
Nashua.....	0			0		0	0		0	0	
<b>Vermont:</b>											
Barre.....	0		0	0	0	2	0	0	0	0	
Burlington.....	0		0	0	0	1	0	0	0	0	8
Rutland.....	0		0	0	1	0	0	0	0	1	5
<b>Massachusetts:</b>											
Boston.....	1		0	3	18	12	0	7	2	5	187
Fall River.....	0		0	0	0	1	0	0	0	1	27
Springfield.....	0		0	0	1	2	0	1	1	5	34
Worcester.....	0		0	0	1	15	0	0	0	0	37
<b>Rhode Island:</b>											
Pawtucket.....											
Providence.....	0		0	1	3	2	0	4	0	16	56
<b>Connecticut:</b>											
Bridgeport.....	1		0	0	0	0	0	1	0	0	26
Hartford.....	0		0	1	0	2	0	2	0	2	44
New Haven.....	0		0	0	3	0	0	0	0	2	49
<b>New York:</b>											
Buffalo.....	0		0	1	7	22	0	8	1	0	110
New York.....	16	6	3	15	105	43	0	83	4	92	1,312
Rochester.....	0		0	1	4	1	0	0	1	7	56
Syracuse.....	0		0	3	2	0	0	1	0	5	46
<b>New Jersey:</b>											
Camden.....	1		0	0	5	1	0	0	3	0	21
Newark.....	0		0	1	4	13	0	6	0	29	74
Trenton.....	0		0	0	0	2	0	3	0	2	37
<b>Pennsylvania:</b>											
Philadelphia.....	3	1	0	9	19	45	0	22	5	44	446
Pittsburgh.....	3		0	2	16	22	0	11	0	15	153
Reading.....	0		1	2	1	1	0	0	0	0	23
Scranton.....	0		0			1	0		0		
<b>Ohio:</b>											
Cincinnati.....	15		0	1	3	14	0	6	0	3	124
Cleveland.....	3	17	1	0	10	13	0	17	3	18	179
Columbus.....	6	1	1	2	2	7	0	3	2	2	68
Toledo.....	0		0	0	2	3	0	2	2	4	70
<b>Indiana:</b>											
Anderson.....	1		0	0	0	2	0	0	0	1	6
Fort Wayne.....	8		0	0	1	6	0	1	1	0	18
Indianapolis.....	6		0	1	6	17	0	4	1	13	102
Muncie.....	0		0	0	2	2	0	1	0	0	9
South Bend.....	0		0	1	1	1	0	0	0	1	20
Terre Haute.....	0		0	0	0	2	0	0	0	0	28
<b>Illinois:</b>											
Alton.....	10		0	1	0	5	0	0	0	0	12
Chicago.....	6	5	3	7	22	92	0	42	0	58	662
Elgin.....	0		0	0	1	7	0	0	0	0	9
Moline.....	0		0	0	1	0	0	0	0	0	7
Springfield.....	0		0	1	0	3	0	0	0	2	18
<b>Michigan:</b>											
Detroit.....	10	3	0	7	15	27	0	10	1	98	234
Flint.....	0		0	0	0	6	0	0	0	0	28
Grand Rapids.....	0		1	2	2	8	0	1	0	2	25
<b>Wisconsin:</b>											
Kenosha.....	0		0	1	1	21	0	0	0	4	5
Milwaukee.....	0	2	1	4	5	29	0	5	0	40	95
Racine.....	0		0	0	0	12	0	0	0	4	17
Superior.....	1		0	0	0	3	0	0	0	0	8
<b>Minnesota:</b>											
Duluth.....	0		0	0	2	2	0	2	0	1	19
Minneapolis.....	8		0	3	5	36	0	0	1	12	82
St. Paul.....	0		0	0	6	14	0	2	0	9	62
<b>Iowa:</b>											
Cedar Rapids.....	0		0	0	0	3	0	0	0	2	
Davenport.....	0		0	0	0	2	0	0	0	0	
Des Moines.....	3			0	0	3	0		1	1	31
Sioux City.....	0			0	0	11	0		0	0	
Waterloo.....	3			0		3	0		0	0	

1 Including delayed reports.

## City reports for week ended Oct. 19, 1935—Continued

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Smallpox cases	Tubercu-losis deaths	Ty-phoid fever cases	Whoop-ing cough cases	Deaths, all causes
		Cases	Deaths								
Missouri:											
St. Joseph	4		0	0	3	0	0	3	0	1	32
St. Louis	11			1	6	15	0	13	0	2	180
North Dakota:											
Fargo	1		0	0	0	1	0	0	0	3	7
Grand Forks	0			0		0	0		0	0	
South Dakota:											
Aberdeen	0			0		0	0		0	0	
Nebraska:											
Omaha	4		0	1	8	9	0	1	0	1	53
Kansas:											
Lawrence	0		0	0	0	0	0	0	0	1	5
Topeka	0		0	1	0	7	0	0	0	1	7
Wichita	0		0	0	2	1	0	0	0	5	38
Delaware:											
Wilmington	0		0	0	4	2	0	0	0	2	17
Maryland:											
Baltimore	3	1	1	0	16	19	0	12	2	15	200
Cumberland	1		0	0	1	3	0	0	0	0	16
Frederick	0		0	0	0	1	0	0	0	0	2
Dist. of Columbia:											
Washington	20		0	1	10	11	0	7	3	1	165
Virginia:											
Lynchburg	3		0	0	2	1	0	0	0	0	11
Norfolk	0		0	0	5	1	0	6	0	1	36
Richmond	0		1	0	5	1	0	4	0	0	60
Roanoke	3		0	0	0	3	0	1	1	0	12
West Virginia:											
Charleston	3		0	0	1	3	0	0	0	0	10
Huntington	2			0		11	0		0	0	
Wheeling	1		0	0	1	3	0	0	2	0	22
North Carolina:											
Gastonia	1		0	0	1	2	0	0	0	0	2
Raleigh	1		0	0	0	0	0	2	0	0	15
Wilmington	0		0	0	0	0	0	1	0	3	12
Winston-Salem	0		0	0	2	6	0	0	1	0	15
South Carolina:											
Charleston	0	11	0	0	1	0	0	0	0	0	12
Columbia	0		0	0	0	0	0	0	0	0	6
Florence	1		0	0	1	0	0	0	0	0	11
Greenville	0		0	0	3	0	1	0	0	0	13
Georgia:											
Atlanta	4	4	0	0	5	9	0	5	0	3	74
Brunswick	0		0	0	0	0	0	0	0	0	2
Savannah	9	7	0	0	3	0	0	2	2	2	35
Florida:											
Miami	0	2		0	0	1	0	4	0	0	20
Tampa	1		0	0	3	1	0	2	0	0	22
Kentucky:											
Ashland	1			0		3	0		0	0	
Covington	3		0	0	0	3	0	0	0	1	19
Lexington	6		0	0	2	0	0	0	0	0	21
Louisville	6		0	1	2	8	0	1	2	3	78
Tennessee:											
Knoxville	8		0	0	0	1	0	2	2	0	27
Memphis	3		0	0	5	8	0	2	2	4	82
Nashville	0		1	0	6	2	0	3	0	1	59
Alabama:											
Birmingham	1	1	1	0	5	5	0	5	0	0	72
Mobile											
Montgomery	1			0		1	0		0	2	
Arkansas:											
Fort Smith	0			0		4	0		0	0	
Little Rock	1		0	0	2	3	0	3	0	0	7
Louisiana:											
Lake Charles	2		0	0	1	0	0	0	0	0	5
New Orleans	4		2	3	9	4	0	10	5	0	147
Shreveport	3		0	0	6	0	0	1	1	0	45
Oklahoma:											
Oklahoma City	1	6	1	0	1	4	0	0	1	0	30
Texas:											
Dallas	5		0	0	6	13	0	1	0	2	52
Fort Worth	4		0	0	6	4	0	0	2	0	28
Galveston	2		0	0	1	0	0	1	0	0	17
Houston	5		0	1	4	1	0	3	2	0	54
San Antonio	1		2	0	4	0	0	2	0	0	46

## City reports for week ended Oct. 12, 1935—Continued

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Small-pox cases	Tuberculosis deaths	Typhoid fever cases	Whooping cough cases	Deaths, all causes
		Cases	Deaths								
Montana:											
Billings.....	1		0	1	0	0	0	0	0	1	5
Great Falls.....	0		0	0	0	1	0	0	0	0	6
Helena.....	0		0	1	1	0	0	0	0	0	3
Missoula.....	0		0	14	1	14	0	0	1	0	5
Idaho:											
Boise.....	0		0	0	1	2	0	0	0	0	10
Colorado:											
C o l o r a d o											
Springs.....	0		0	2	1	5	0	0	0	14	15
Denver.....	11		0	1	5	14	0	5	5	1	63
Pueblo.....	0		0	0	0	10	0	0	1	0	4
New Mexico:											
Albuquerque.....	5		0	0	1	3	0	5	1	0	12
Utah:											
Salt Lake City..	0		0	2	4	30	0	1	0	12	27
Nevada:											
Reno.....	0		0	0	1	0	0	0	0	0	1
Washington:											
Seattle.....	0		2	2	2	10	0	4	0	2	74
Spokane.....	0		0	0	2	3	1	0	0	1	27
Tacoma.....	0		0	1	3	4	0	0	0	0	21
Oregon:											
Portland.....	0		0	3	0	11	0	3	1	0	66
Salem.....	0			0		0			0	0	
California:											
Los Angeles.....	16	11	0	20	9	27	0	15	3	10	332
Sacramento.....	1		0	3	3	3	0	2	1	0	26
San Francisco....	1	1	1	27	5	9	0	7	1	14	141

State and city	Meningococcus meningitis		Polio-myelitis cases	State and city	Meningococcus meningitis		Polio-myelitis cases
	Cases	Deaths			Cases	Deaths	
Maine:				Iowa:			
Portland.....	0	0	1	Waterloo.....	0	0	1
New Hampshire:				South Dakota:			
Concord.....	0	0	1	Aberdeen.....	0	0	2
Vermont:				Kansas:			
Barre.....	0	0	1	Wichita.....	1	1	0
Massachusetts:				Kentucky:			
Boston.....	1	1	36	Louisville.....	0	0	2
Fall River.....	0	0	1	Tennessee:			
Worcester.....	0	0	1	Nashville.....	2	0	0
Rhode Island:				Delaware:			
Providence.....	0	0	5	Wilmington.....	1	0	0
Connecticut:				Maryland:			
Bridgeport.....	0	0	3	Baltimore.....	5	1	4
Hartford.....	1	0	1	District of Columbia:			
New Haven.....	0	0	1	Washington.....	3	2	4
New York:				Virginia:			
Buffalo.....	1	0	0	Lynchburg.....	0	0	1
New York.....	6	3	34	Norfolk.....	0	1	0
Syracuse.....	0	0	5	Richmond.....	0	0	1
New Jersey:				West Virginia:			
Newark.....	0	0	1	Wheeling.....	1	0	0
Pennsylvania:				Georgia:			
Philadelphia.....	2	2	4	Atlanta.....	3	2	0
Ohio:				Louisiana:			
Cincinnati.....	2	1	0	Shreveport.....	0	2	0
Columbus.....	3	0	0	Texas:			
Indiana:				San Antonio.....	0	0	1
Muncie.....	1	1	0	Utah:			
Illinois:				Salt Lake City.....	0	0	1
Chicago.....	4	1	4	Nevada:			
Michigan:				Reno.....	0	0	1
Detroit.....	1	0	8	California:			
Flint.....	0	0	1	Los Angeles.....	1	2	3
Minnesota:							
Minneapolis.....	2	0	0				

*Epidemic encephalitis*.—Cases: Pittsburgh, 1; Detroit, 1; St. Joseph, 1; Sacramento, 1.

*Pellagra*.—Cases: Louisville, Ky., 1; Winston-Salem, 1; Charleston, S. C., 1; Atlanta, 3; Savannah, 1; New Orleans, 3; Dallas, 1; Los Angeles, 5; San Francisco, 1.

*Typhus fever*.—Cases: Charleston, S. C., 3; Savannah, 1; Fort Worth, 2.

## FOREIGN AND INSULAR

### ITALY

*Communicable diseases—4 weeks ended August 18, 1935.*—During the 4 weeks ended August 18, 1935, cases of certain communicable diseases were reported in Italy as follows:

	July 22-28		July 29-Aug. 4		Aug. 5-11		Aug. 12-18	
	Cases	Com-munes af-fected	Cases	Com-munes af-fected	Cases	Com-munes af-fected	Cases	Com-munes af-fected
Anthrax.....	27	24	46	38	34	26	42	34
Cerebrospinal meningitis.....	7	4	6	5	8	6	5	5
Chicken pox.....	103	70	116	74	96	63	99	60
Diphtheria and croup.....	300	168	289	177	306	210	340	201
Dysentery.....	54	26	42	22	41	22	53	27
Hookworm disease.....	21	11	26	9	10	4	33	13
Lethargic encephalitis.....	3	3			2	2	1	1
Measles.....	896	254	852	262	628	216	681	197
Paratyphoid fever.....	145	99	178	135	164	117	169	113
Poliomyelitis.....	16	14	26	21	16	16	17	15
Puerperal fever.....	32	28	31	28	38	33	27	25
Scarlet fever.....	274	98	240	112	216	116	222	105
Typhoid fever.....	1,167	462	1,196	509	1,267	529	1,258	566
Undulant fever.....	66	50	61	48	59	47	43	35
Whooping cough.....	386	136	455	126	336	125	324	110

### MEXICO

*Malaria and typhoid fever.*—According to information dated October 14, 1935, health conditions in a number of isolated villages and rural districts near Matamoros, Mexico, particularly in the village of Rio Rico, were seriously affected by the September floods of the Rio Grande. Malaria was general throughout the flooded areas and was rapidly spreading. Numerous cases of typhoid fever were also present. The report stated that 48 rural settlements along the lower Rio Grande in Mexico had been inundated during the September floods and as a result many of the inhabitants of these settlements were suffering from malaria, typhoid fever, and other diseases. Stagnant pools were being treated with oil, quinine had been distributed, and general vaccination of the populace was in progress.



**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 REPORTS for October 25, 1935, pages 1512-1526. A similar cumulative table will appear in the PUBLIC HEALTH REPORTS to be issued November 29, 1935, and thereafter, at least for the time being, in the issue published on the last Friday of each month.

**Cholera**

*Siam.*—During the week ended October 12, 1935, cholera was reported in Siam, as follows: Sarapuri Province, 3 cases, 3 deaths; Singhapuri Province, 1 case.

**Plague**

*Brazil—Bahia State.*—During the month of September 1935, 7 cases of plague were reported near Bomfim, in the interior of Bahia State, Brazil.

*Ecuador—Guayaquil.*—During the week ended October 12, 1935, 14 cases of plague were reported at Guayaquil, Ecuador.

*Egypt—Qena.*—During the week ended October 12, 1935, 1 case of plague was reported at Qena, Egypt.

*Hawaii Territory—Hawaii Island—Hamakua District—Kukaiiau.*—A rat found October 6, 1935, at Kukaiiau, Hamakua District, Island of Hawaii, has been found to be plague-infected.

**Smallpox**

*Syria—Tripoli.*—During the week ended October 12, 1935, 1 case of smallpox was reported at Tripoli, Syria.