

# PUBLIC HEALTH REPORTS

---

VOL. 44

NOVEMBER 29, 1929

NO. 48

---

## NOTES ON THE RESULTS OF TRACHOMA WORK BY THE INDIAN SERVICE IN ARIZONA AND NEW MEXICO

By H. J. WARNER, *Surgeon, United States Public Health Service, Medical Director, District No. 3, United States Indian Service*

### INTRODUCTION

Few people have a true conception of the trachoma problem among the Indians of the Southwest. Persons unfamiliar with trachoma do not realize that this dread disease, while it does not kill, can leave permanent disability and blindness in its wake. In civilized white communities, under favorable conditions, the elimination of this disease is a long and arduous task. The problem is increased tenfold among a primitive Indian population of a low economic status, living in dark or unventilated hogans and tepees. Frequently whole families sleep on sheepskins spread on the dirt floors. Under the desert conditions obtaining over most of the Southwest, water is at a premium and personal cleanliness and sanitary conditions are at their worst. The glare of the desert sands, the intense radiation of the sun, the prevalent dust storms—all favor development of trauma of the conjunctiva and facilitate the penetration of the trachoma virus. In addition to these unfavorable factors are added the Indians' adherence to the medicine man and his suspicion of the white man's innovations in matters of medical treatment. It is necessary to gain the confidence of the Indian before even a start can be made to render him medical aid. These few facts may help to make clear the tremendous difficulties under which the Indian Service works in its campaign to eradicate trachoma.

The first indication which we find of any serious eye diseases among the Indians occurs in the reports of Army surgeons stationed at western posts between 1860 and 1870. They occasionally reported undue contagious eye diseases and blindness among Indians with whom they came in contact.

The diagnosis "trachoma" appears in the reports of physicians of the Indian Service as early as 1900. In recent years the cure and prevention of trachoma have constituted one of the greatest problems of the Indian medical service.

## HISTORICAL DATA

While the origin of trachoma among the Indians can not be proved, there is considerable basis for the belief that it was introduced by the early Spanish settlers.

There is little doubt that the Spanish peninsula was heavily infected with trachoma in the eighth century during the Mohammedan invasion and conquest. The Moslem armies were composed of elements from Arabia, Asia Minor, Egypt, and North Africa, which sections are known to have been heavily infected with trachoma as far back as history records. For seven centuries the Spanish peninsula was controlled and governed by the Arabs and all commercial intercourse was carried on with North Africa and Arabia. Trachoma is known to be prevalent in Spain to-day and in parts of Mexico settled by people from that country. Coronado entered New Mexico in 1540 with 400 Spaniards and 800 Indian allies from Old Mexico. For two years he explored the country now comprising Arizona and New Mexico. In 1598 Onate, with a band of colonists composed of Spaniards and Indians, made the first permanent settlement in northern New Mexico near the present pueblo of San Juan. In the next hundred years numerous settlements were made by Spaniards among the pueblos of the Rio Grande in New Mexico and the Mohaves, Yumas, and Pimas in Arizona. History records that the Spanish contact with these people was most intimate. This would readily account for the serious trachoma infection of these people. The Spaniards never succeeded in conquering the nomadic tribes, such as the Navajos, Apaches, and Comanches. However, intermittent warfare was carried on for 300 years by the Spaniards and Pueblo Indian allies on one side and the nomadic tribes on the other.

It was the custom of the Navajos, Apaches, and other tribes to kill all men prisoners, but the women and children prisoners were adopted into the tribe. During 300 years of warfare many Pueblo women and children, and possibly those of Spanish extraction, were captured and absorbed into the Navajo and Apache Tribes. After the great Indian rebellion of 1680 and the return of the Spanish in 1693, thousands of Pueblo Indians, fearing the vengeance of the conquerors, fled to the Navajo country and were absorbed into the Navajo tribes. During lulls in the warfare commercial intercourse was carried on between the nomadic tribes and the Spaniards and Pueblos. The early history of the Spanish occupation tells of two great fairs which were held each year—one at Taos, N. Mex., and the other at Chihuahua, Mexico. The Indians and Spanish settlers traveled for hundreds of miles from all over the Southwest to attend these fairs for purposes of trade and to engage in games and other forms of entertainment. The possibility of the wide spread of any

existing infection of trachoma among the Indians of the Southwest at an early date can be readily surmised.

#### PREVALENCE OF TRACHOMA

The first authentic information on the incidence of trachoma among the tribes of the Southwest dates from 1912, when a number of medical officers of the Public Health Service were detailed to make a survey. The results for Arizona and New Mexico are given in Table 1.

**TABLE 1.—Trachoma found among the Indian tribes of Arizona and New Mexico in 1912<sup>1</sup>**

[The reservation data represent examinations of adult Indians, children of preschool age, and a few children of school age not enrolled in school]

School or reservation	Tribe	Number examined	Found to have trachoma	
			Number	Per cent
Camp McDowell	Apache	110	13	12
Camp Verde	do	91	34	37
Colorado River	Mohave Apaches	147	51	35
Fort Mohave	Mohave and Chemehuevi	355	38	11
Gila River	Pima and Maricopa	943	326	34
Havasupai	Havasupai	169	5	3
Moqui (Hopi)	Hopi	1,079	411	38
Navajo	Navajo	710	213	30
Papago	Papago	500	102	20
Phoenix School	Mixed tribes	410	59	14
Salt River	Pima	112	43	39
San Carlos	Apache	376	49	13
Walapai	Walapai	117	32	27
Western Navajo	Navajo	359	44	12
White River	Apache	395	39	10
Albuquerque School	Many tribes	339	75	22
Jicarilla	Apache	201	17	8
Mescalero	do	190	18	10
Navajo	Navajo	462	139	30
Zuni	Zuni	170	10	6
Pueblo agencies	Pueblo	845	240	28

<sup>1</sup> Senate Document No. 1038, published in 1913.

#### OUTLINE OF WORK

For a number of years after the 1912 survey the trachoma work among the Indians was carried on by the scattered school and agency physicians. They were few in number, compared with the Indian population, poorly equipped, and burdened with an overwhelming amount of general medical work, and in consequence little progress could be made. Increase of congressional appropriations permitted in 1924 the first real organized effort against trachoma and other eye diseases. Seven ophthalmologists and 13 nurses were assigned to specified districts in the Indian country. Trachoma clinics were held and instruction was given to agency and school physicians on the diagnosis and treatment of trachoma. As appropriations applicable to health work have increased from year to year, the number of

specialists and nurses has been augmented, districts have been made smaller, and hospital facilities increased. Practically all the agency and school physicians have a good working knowledge of trachoma and devote as much time to it as their varied duties will permit. In 1926 the first steps were taken to separate trachomatous from nontrachomatous children in the Indian boarding schools by the establishment of a trachoma school at Fort Defiance, Ariz. This was not an experiment, as this plan had been tried with marked success by the London County Boards in London, England, 20 years earlier. Since 1926 a trachoma school has been designated at Shiprock, N. Mex.

It is believed that it is now time to take stock, determine whether the incidence of trachoma has been reduced in the aggregate, and evaluate the methods of control now in use.

The following pages will be devoted to this object, using official reports for the fiscal year 1928. The figures used are taken entirely from the reports of the ophthalmologists of the Indian Service.

#### PRESENT STATUS OF TRACHOMA

Table 2 presents the results of the examination of 7,127 Indians on 15 reservations in Arizona and New Mexico in 1928.

TABLE 2.—*Trachoma found among 7,127 Indians on 15 reservations in Arizona and New Mexico in 1928*

[The data represent examinations of adult Indians, children of preschool age, and a few children of school age not enrolled in school]

Agency	Tribe	Number examined	Found to have trachoma	
			Number	Per cent
Northern Navajo.....	Navajo.....	945	126	13.3
Eastern Navajo.....	do.....	700	80	11.4
Jicarilla.....	Apache.....	150	3	2.0
Mescalero.....	do.....	225	14	6.1
Zuni.....	Zuni.....	489	4	.8
Western Navajo.....	Navajo.....	433	96	22.0
Havasupai.....	Havasupai.....	42	0	0
Pima.....	Pima.....	262	20	7.6
San Carlos.....	Apache.....	724	94	13.0
Sells.....	Papago.....	216	20	9.2
Colorado River.....	Mohave.....	400	41	10.2
Needles Colony.....	do.....	150	4	2.6
Southern Pueblos.....	Pueblos.....	748	8	1.0
Northern Pueblos.....	do.....	1,431	95	6.0
Western Navajo.....	Hopi.....	212	18	8.4
Total for reservations.....		7,127	623	8.1

Table 3 shows the results of the examination of 5,363 school children in day, mission, and boarding schools in Arizona and New Mexico.

TABLE 3.—Trachoma found among 5,363 school children in Arizona and New Mexico in 1928

School	Tribe	Number examined	Found to have trachoma	
			Number	Per cent
Day schools.....	Pueblo.....	375	43	11.4
Do.....	Hopi.....	244	47	14.0
Do.....	Apache.....	188	30	15.9
Day and mission schools.....	Pima.....	335	104	31.0
San Carlos day and boarding schools.....	Apache.....	300	85	28.3
Mescalero boarding school.....	do.....	109	30	25.2
St. Catherine boarding school.....	Pueblo.....	205	46	22.4
Truxton Canyon boarding school.....	Walapai and Navajo.....	218	51	22.0
Theodore Roosevelt boarding school.....	Navajo.....	424	151	35.6
Keams Canyon boarding school.....	do.....	149	61	41.0
Leupp boarding school.....	do.....	404	179	44.3
Western Navajo boarding school.....	do.....	409	104	25.0
Tohatchie boarding school.....	do.....	261	157	60.1
Chas. H. Burke boarding school.....	do.....	510	105	20.6
Crown Point boarding school.....	do.....	350	170	45.7
Shiprock boarding school.....	do.....	414	127	30.7
Toadlena boarding school.....	do.....	225	160	71.1
Rehoboth Mission boarding school.....	do.....	143	29	21.6
Total.....		5,363	1,659	-31.1

Table 4 shows a comparison of the results of the 1912 and the 1928 surveys in 11 comparable localities in Arizona and New Mexico.

TABLE 4.—Comparison of 1912 and 1928 surveys in 11 localities in Arizona and New Mexico

[The data cover examinations of adult Indians, children of preschool age, and a few children of school age not enrolled in school]

Reservation	Tribe	1912 survey			1928 survey		
		Number examined	Found to have trachoma		Number examined	Found to have trachoma	
			Number	Per cent		Number	Per cent
Colorado River.....	Mohave.....	147	51	35.0	400	41	10.2
Havasupai.....	Havasupai.....	169	5	3.0	42	0	0
Hopi.....	Hopi.....	1,079	411	38.0	212	18	8.4
Navajo.....	Navajo.....	710	213	30.0	1,645	206	12.5
Sells.....	Papago.....	500	102	20.0	216	20	9.2
Western Navajo.....	Navajo.....	359	44	12.0	433	96	22.0
San Carlos.....	Apache.....	376	49	13.0	724	94	13.0
Jicarilla.....	do.....	201	17	8.4	150	3	2.0
Mescalero.....	do.....	190	18	9.5	225	14	6.1
Zuni.....	Zuni.....	170	10	5.9	489	4	.8
Pueblo.....	Pueblo.....	845	240	28.4	2,179	107	4.9
Total.....		4,746	1,160	24.4	6,715	603	8.9

Table 5 presents a comparison of the incidence of trachoma among reservation Indians and school children of the same tribal groups.

**TABLE 5.—Comparison of incidence of trachoma among Indian reservations and among school children of the same tribal groups in Arizona and New Mexico, 1928**

[The heading "Reservation Indians" includes adults, children of preschool age, and a small number of children of school age not enrolled in school. The heading "School children" includes children attending day, boarding, and mission schools]

Tribe	Reservation Indians			School children		
	Number examined	Found to have trachoma		Number examined	Found to have trachoma	
		Number	Per cent		Number	Per cent
Pueblos.....	2,179	103	4.7	580	89	15.3
Pima.....	262	20	9.2	335	104	31.0
Apache.....	1,080	106	11.3	1,150	400	28.3
Hopi.....	212	18	8.4	344	47	14.0
Navajo.....	2,078	302	14.5	2,885	1,064	36.8
Total.....	5,811	551	9.5	5,294	1,713	32.5

#### DISCUSSION

An examination of Table 4 shows the gratifying result of a reduction in the incidence of trachoma among reservation Indians of Arizona and New Mexico from 24.4 per cent in 1912 to 8.9 per cent in 1928. Only one reservation, Western Navajo, shows an increase, which is readily explained by the fact that until recently there were no hospital facilities and only one physician to attend to the medical needs of 4,000 Indians scattered over a large and somewhat inaccessible area. Western Navajo suffered a severe epidemic of measles in 1928, which was followed immediately by a rapid and acute spread of trachoma. The best results, as might be expected, have been obtained among the Pueblos, Hopis, and Zunis. These Indians, living in villages, are readily accessible, and, being in a higher stage of culture than the nomadic tribes, are more amenable and cooperative.

A study of Table 3 shows that the incidence of trachoma among 5,363 children in day schools, mission schools, and boarding schools is 31.1 per cent. The day school can be used only when the Indians are of the village type, such as the Pueblos, Zunis, Hopis, and Pimas. The day schools usually have pupils from 6 to 14 years of age. The day-school pupils finish their education in the boarding schools. As the Navajos are nomadic, it is necessary to educate their children entirely in boarding schools.

In Table 5 a comparison has been made to show the incidence of trachoma among reservation Indians and school children of the same tribal groups. In every group the incidence of trachoma in school children greatly exceeds the reservation rate. The average rate of trachoma for all the groups of reservation Indians considered is 9.5 per cent, while the school children of the same groups show an inci-

dence of 32.5 per cent, or over three times the general rate. In schools where trachomatous and nontrachomatous children are enrolled, the best of regulations and supervision will not prevent contact and infection. When it is considered that the secretion from the eyes of a trachoma case can be transferred to the eyes of another in so many ways, such as by fingers, towels, handkerchiefs, bed clothing, wash basins, eating utensils, chair arms, desks, door knobs, balls, bats, and other articles used in games, it will be realized that the prevention of infection under such close contact is a difficult task, and no doubt many children who acquire trachoma in schools carry it home during the summer vacations to infect trachoma-free families.

The ophthalmologists of the Indian Service report that adult reservation Indians coming for eye treatment are usually old cases suffering from the sequelæ of trachoma and are not in an infective stage. Acute and subacute trachoma, the type to convey contagion, is seen only among children.

Field work by ophthalmologists among adult Indians of the nomadic type is unsatisfactory and usually a waste of time. Such Indians come only for the relief of the subjective symptoms and disappear as soon as this has been accomplished, long before a cure has been effected. It is the policy of the Indian Bureau to use persuasive measures only and to avoid all coercive efforts, which would only antagonize the Indians and defeat our aims.

There is converging evidence that the ultimate eradication of trachoma in the Indian population will be obtained by concentrating on the present generation. The extension of segregation of trachomatous and nontrachomatous children in schools throughout the Indian country, with intensive treatment by ophthalmologists, will go far to accomplish the object in view. Curative measures should go hand in hand with health education. Children in trachoma schools, of course, should not be allowed to return to their families until they are no longer conveyors of contagion. Adult Indians with trachoma or sequelæ should be encouraged to accept hospitalization for treatment by agency physicians or ophthalmologists when available.

#### CONCLUSIONS

1. The active work of the Indian medical service has resulted in a marked reduction in the incidence of trachoma on the reservations in Arizona and New Mexico.
2. The practice of segregation of trachomatous children into special schools should be extended to include all the Indian country.
3. The main effort against trachoma should be concentrated on the treatment of the infected children in the special schools.

*Acknowledgments*

It is desired to extend acknowledgments and appreciation to Dr. Ralph H. Ross, Dr. Polk Richards, Dr. J. S. Perkins, Dr. W. C. Barton, Dr. W. L. Davis, and Dr. P. G. Eilers, ophthalmologists of the Indian Service, whose indefatigable efforts under difficult conditions have accomplished so much toward solving the trachoma problem among the Indians of the Southwest. Their official reports have been freely used for the data in this article.

## REFERENCES

- Howard, Harvey J.: The Eradication of Trachoma Among School Children in China. *The China Medical Journal*, Vol. XXXVIII, April, 1924, pp. 255-270.
- Mossman, Paul D.: Trachoma in the State's Health Program. *Pub. Health Rep.* Vol. 43, No. 8, February 24, 1928, pp. 449-453. (Reprint No. 1210.)
- N. Shunkin: Trachoma in Palestine. *Brit. Med. Jour. Ophthal.*, May, 1926, pp. 247-279.
- Dear, Major W. R.: Trachoma in Russia. *The Military Surgeon*, June, 1926.
- McMullen, John: Results of a Three-Year Trachoma Campaign begun in Knott County, Kentucky, in 1913. *Pub. Health Rep.*, Vol. 38, No. 43, October 26, 1923, pp. 2463-2466. (Reprint No. 877.)
- Contagious and Infectious Diseases Among the Indians, 1913. *Senate Document No. 1038.*
- The Public Health Aspects of Trachoma. Proceedings of Twelfth Annual Conference of the National Committee for the Prevention of Blindness, December 1 and 2, 1926.
- Collins, E. Treacher: Diseases of the Lymphoid Tissue of the Conjunctiva. *Royal London Ophthalmic Hospital Reports*, Vol. XVIII, Part I.
- Coan, Charles F.: History of New Mexico. 3 Vols. American Historical Society, 1925, New York City.

## CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES<sup>1</sup>

September 29-November 2, 1929

The prevalence of certain important communicable diseases as indicated by weekly telegraphic reports from State health departments<sup>2</sup> to the Public Health Service is summarized below. This summary is prepared from the data published weekly in the Public Health Reports under the section entitled "Prevalence of Disease."

*Smallpox*.—The rise in smallpox incidence during October was somewhat greater than the normal seasonal increase. The number of cases reported (1,664) was about 50 per cent higher than the average for the corresponding period of the preceding three years. The largest increases were shown in New York State, Illinois, Michigan, and Virginia. Ohio and Indiana have reported considerable numbers of cases during all of 1929.

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

<sup>2</sup> The numbers of States reporting for the various diseases are as follows: Typhoid fever, 41; poliomyelitis, 43; meningococcus meningitis, 42; smallpox, 42; measles, 38; diphtheria, 42; scarlet fever, 41; influenza, 31.

*Scarlet fever.*—Scarlet fever showed an increase which was perhaps slightly greater than the normal seasonal increase for this disease. The reported cases numbered 11,024 for the 5-week period, a figure not far from the seasonal average.

*Poliomyelitis.*—The reported number of cases (528) was slightly lower than in 1928 and considerably lower than in 1927, when 2,329 cases were reported. There was a slight resistance to the usual seasonal decline. No States showed great increases over the average prevalence.

*Meningococcus meningitis.*—The reported number of cases (459) was about double the seasonal average of the preceding three years, but even this ratio was lower than that which obtained last spring and summer. New York State, Illinois, and Michigan appear to be the chief centers of prevalence.

*Diphtheria.*—The number of cases of diphtheria reported (9,349) represents a level slightly below that of recent years.

*Influenza.*—During the period September 9–November 2, there were 1,731 cases of influenza reported—the lowest number for the period during the last four years.

*Measles.*—The reported number of cases of measles (5,580) was also the lowest in the last four years.

*Typhoid fever.*—Typhoid fever continued its downward trend; 2,571 cases were reported as compared with 3,298 and 3,613 during the two preceding years, respectively.

*Mortality from all causes.*—The mortality rate for large cities during October, as reported by the Bureau of the Census, was about normal as compared with the three preceding years. The average weekly rate was 11.7 (annual basis) per 1,000 inhabitants.

---

#### RECENT STATE MORTALITY STATISTICS <sup>a</sup>

For the information of public health officials and others interested, the rates in the following tables have been computed from monthly mortality data furnished by the State health departments for the latest month for which records are available. For purposes of comparison, the mortality records for a few preceding years are given, the rates being those for the month corresponding to the latest month for which the 1928 or 1929 rate is available.

---

\* From the Office of Statistical Investigations, United States Public Health Service.

*Monthly State mortality statistics*

[All rates are on an annual basis, and, with the exception of mortality from all causes, infant mortality and congenital malformations and diseases of early infancy, are per 100,000 population]

State	1929									1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
ALL CAUSES, ANNUAL RATE PER 1,000 POPULATION													
Alabama (total).....	13.4	19.6	12.6	11.4	11.2	11.9	11.8	11.1	11.0	11.7	9.5	10.9	10.0
White.....	11.1	17.3	11.2	10.0	9.0	9.2	9.2	8.7	8.5	8.7	7.7	9.0	-----
Colored.....	17.5	26.9	17.2	15.7	15.3	16.9	16.8	15.7	15.7	17.1	12.8	14.4	-----
California.....	21.2	16.8	15.7	15.4	15.2	13.8	14.2	-----	-----	12.9	-----	-----	-----
Connecticut.....	11.4	15.9	14.8	12.2	10.4	11.1	9.0	9.3	-----	9.8	9.5	9.8	9.2
Georgia.....	15.2	11.2	9.2	9.6	9.1	11.3	10.3	10.0	-----	-----	-----	-----	-----
Hawaii Territory.....	12.9	13.3	15.2	14.6	14.6	14.5	12.7	12.1	9.7	11.8	11.3	-----	-----
Indiana.....	16.7	17.7	14.0	13.4	12.4	12.2	10.8	10.5	-----	9.9	10.9	10.5	10.9
Iowa.....	14.4	14.6	12.2	11.0	10.7	10.4	-----	9.7	8.6	8.6	-----	-----	-----
Kansas.....	18.0	13.1	12.7	12.1	11.0	9.8	-----	-----	-----	10.9	-----	-----	-----
Kentucky.....	11.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana.....	15.7	18.8	13.4	12.1	11.5	11.2	11.6	11.1	-----	12.7	-----	-----	-----
White.....	13.0	16.0	10.9	9.7	8.8	8.2	8.2	8.3	-----	9.6	-----	-----	-----
Colored.....	20.6	24.1	18.0	16.3	16.5	16.7	16.9	16.0	-----	18.4	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	-----	11.7	11.9	-----	-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	-----	10.4	10.8	-----	-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	-----	18.4	17.5	-----	-----	-----	-----	-----
Michigan.....	16.2	17.0	12.9	13.2	12.7	13.2	11.7	10.8	10.4	9.7	-----	-----	-----
Minnesota.....	12.5	13.6	9.1	9.7	9.3	9.2	8.6	8.3	8.0	8.0	-----	-----	-----
Mississippi.....	16.7	23.1	14.0	13.0	11.8	11.1	12.6	11.7	-----	10.1	-----	-----	-----
White.....	14.9	19.8	11.9	10.5	8.8	8.4	9.0	8.6	-----	15.7	-----	-----	-----
Colored.....	18.4	26.1	15.9	15.3	14.6	13.7	15.9	14.5	-----	13.0	-----	-----	-----
Nebraska.....	14.8	12.3	11.9	11.0	10.8	10.5	10.5	10.4	9.0	9.9	9.6	9.7	10.8
New Jersey.....	13.2	17.3	14.0	13.2	12.1	11.3	10.5	10.4	9.0	11.7	11.3	11.1	12.8
New York <sup>1</sup> .....	13.8	20.3	15.6	14.1	13.5	13.0	16.0	11.1	11.3	11.0	11.3	11.1	12.8
North Carolina.....	17.5	16.2	15.7	12.6	11.7	11.9	-----	-----	-----	11.7	-----	-----	-----
Pennsylvania.....	15.8	19.4	14.0	12.9	11.7	11.2	9.8	9.6	-----	10.3	9.8	10.6	10.0
Rhode Island.....	19.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Dakota.....	14.1	10.8	9.6	8.9	8.0	9.0	7.1	6.8	8.3	8.2	-----	-----	-----
Tennessee.....	16.1	19.2	14.4	13.8	11.3	10.7	10.9	11.9	10.9	11.6	10.9	-----	-----
White.....	17.2	12.7	11.9	9.6	9.1	9.3	10.1	9.4	-----	-----	-----	-----	-----
Colored.....	28.4	22.6	22.8	19.8	18.2	18.9	20.9	18.2	-----	-----	-----	-----	-----
Virginia.....	13.1	19.1	13.5	12.0	10.3	9.8	9.7	10.2	8.9	-----	-----	-----	-----
White.....	11.5	17.3	11.3	10.0	8.8	7.8	8.0	8.8	7.4	-----	-----	-----	-----
Colored.....	17.3	23.9	19.1	17.1	14.4	15.1	14.4	14.0	13.0	-----	-----	-----	-----
Wisconsin.....	14.5	11.8	11.2	11.1	10.6	10.0	-----	-----	8.9	8.9	-----	-----	-----
INFANT MORTALITY, PER 1,000 LIVE BIRTHS													
Alabama (total).....	72	125	92	86	69	78	73	70	60	70	54	73	-----
White.....	60	100	79	79	62	66	69	67	52	54	49	69	-----
Colored.....	95	171	117	97	80	99	81	75	75	99	65	82	-----
California.....	76	66	73	74	69	65	63	-----	-----	60	-----	-----	-----
Connecticut.....	56	74	85	69	61	79	50	44	-----	43	72	53	42
Hawaii Territory.....	113	100	120	129	117	109	108	89	158	153	-----	-----	-----
Indiana.....	81	97	83	70	60	63	48	52	64	63	52	70	84
Iowa.....	44	103	75	37	61	48	-----	44	43	49	-----	-----	-----
Kansas.....	60	94	73	77	69	53	-----	-----	-----	53	-----	-----	-----
Louisiana.....	73	94	75	76	86	91	95	69	-----	79	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	-----	-----	60	75	-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	-----	105	113	-----	-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Michigan.....	86	112	71	71	67	69	57	53	51	53	-----	-----	-----
Minnesota.....	56	83	66	48	51	49	36	39	40	44	-----	-----	-----
Nebraska.....	80	79	81	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey.....	68	93	70	71	70	59	43	46	-----	56	-----	-----	-----
New York <sup>1</sup> .....	70	87	81	77	70	64	52	45	47	55	49	62	71
Pennsylvania.....	90	118	95	81	69	65	51	49	-----	54	50	62	57
Rhode Island.....	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Dakota.....	59	85	90	66	63	63	41	50	39	56	-----	-----	-----
Tennessee.....	-----	145	98	89	61	88	63	83	71	-----	-----	-----	-----
Virginia.....	72	140	91	78	61	-----	67	75	61	-----	-----	-----	-----
Wisconsin.....	72	105	68	69	89	60	51	50	43	47	-----	-----	-----

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928	1929								1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
CONGENITAL MALFORMATIONS AND DISEASES OF EARLY INFANCY (159-163), PER 1,000 LIVE BIRTHS													
Alabama (total).....	23	37	27	31	27	34	29	27	30	29	34	33	—
White.....	27	39	28	32	29	34	34	30	30	24	24	35	—
Colored.....	18	39	26	28	24	34	20	21	31	37	24	29	—
California.....	24	35	33	31	33	32	30	—	—	27	—	—	—
Iowa.....	35	48	34	36	35	31	—	30	30	33	—	—	—
Kansas.....	27	37	32	26	39	33	—	—	—	27	—	—	—
Louisiana.....	25	26	21	29	31	32	34	28	—	32	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	36	34	—	—
White.....	—	—	—	—	—	—	—	—	—	36	37	—	—
Colored.....	—	—	—	—	—	—	—	—	—	27	—	—	—
Michigan.....	39	45	37	34	35	38	33	36	33	30	—	—	—
Minnesota.....	20	37	35	30	33	32	26	28	29	30	—	—	—
Nebraska.....	34	30	33	—	—	—	—	—	—	—	—	—	—
New York <sup>1</sup> .....	40	43	43	41	38	41	35	45	35	36	33	34	37
Pennsylvania.....	37	41	38	33	34	35	32	30	—	31	29	35	30
Rhode Island.....	45	—	—	—	—	—	—	—	—	—	—	—	—
South Dakota.....	28	36	43	29	32	29	21	35	16	35	—	—	—
Tennessee.....	—	36	28	27	20	26	28	29	25	—	—	—	—
TYPHOID FEVER (1)													
Alabama.....	6.0	1.3	1.4	2.2	5.7	5.5	11.4	12.4	17.4	19.7	21.1	35.0	31.9
California.....	1.0	1.0	2.6	2.1	1.6	1.6	1.9	—	—	4.0	—	—	—
Connecticut.....	—	.7	—	—	—	1.4	1.5	1.4	—	—	.7	.8	.8
Georgia.....	2.2	2.0	2.6	5.3	7.4	12.2	20.2	19.9	—	—	—	—	—
Hawaii Territory.....	—	3.7	13.5	3.5	3.4	3.4	6.6	—	—	11.1	7.2	—	—
Indiana.....	3.0	1.5	.4	.4	3.4	1.5	2.3	7.0	5.6	10.4	5.9	10.2	—
Iowa.....	3.4	1.5	1.1	.5	2.6	1.0	—	9.7	3.4	2.4	—	—	—
Kansas.....	1.3	1.3	1.4	1.9	1.3	1.3	—	—	—	—	—	—	—
Kentucky.....	13.4	6.5	5.1	3.7	—	—	—	—	—	—	—	—	—
Louisiana.....	7.8	6.0	4.0	3.6	11.2	14.5	10.0	17.5	—	22.9	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	5.1	8.0	—	—
Michigan.....	1.3	1.5	.9	.3	1.9	2.1	1.9	1.5	2.8	1.3	—	—	—
Minnesota.....	.4	—	.4	—	.5	.4	1.3	2.6	1.3	.9	—	—	—
Mississippi.....	7.9	6.6	2.9	6.6	4.1	7.2	15.6	19.7	—	15.2	—	—	—
Nebraska.....	3.3	3.3	.9	—	—	—	—	—	—	—	—	—	—
New Jersey.....	.9	.6	1.0	.3	.3	1.9	.3	1.9	1.8	3.7	—	—	—
New York <sup>1</sup> .....	1.7	1.0	.9	.4	.6	.6	2.1	2.3	2.1	2.3	3.9	2.4	4.9
North Carolina.....	7.2	2.4	1.8	2.4	2.1	3.2	—	—	—	2.4	—	—	—
Pennsylvania.....	1.3	1.4	2.0	.8	.4	1.8	2.3	2.5	—	2.0	3.0	3.1	3.3
South Carolina.....	12.6	3.2	9.1	3.2	3.9	10.1	22.8	25.3	—	45.5	38.9	—	—
South Dakota.....	6.7	3.3	3.7	—	—	—	3.5	1.7	3.3	3.3	—	—	—
Tennessee.....	8.9	2.4	2.1	2.8	2.9	5.2	7.3	19.3	31.1	30.6	41.2	—	—
Virginia.....	2.3	2.7	.5	.9	.9	5.9	3.8	7.8	5.9	—	—	—	—
Wisconsin.....	.8	.4	1.3	2.0	1.2	.4	.8	.8	2.4	.4	—	—	—
MEASLES (7)													
Alabama.....	3.2	3.9	3.4	3.9	5.7	3.2	2.8	1.4	0.5	2.3	2.8	5.2	—
California.....	.3	—	.6	1.3	—	.5	—	—	—	.3	—	—	—
Connecticut.....	2.2	3.6	4.8	7.2	7.4	6.5	3.7	.7	—	6.6	1.5	4.5	0.8
Georgia.....	1.1	2.9	1.5	3.0	2.2	—	—	—	—	—	—	—	—
Hawaii Territory.....	3.4	3.4	3.7	3.4	—	16.9	17.4	13.2	3.3	3.4	3.6	—	—
Indiana.....	1.1	3.0	4.9	10.4	13.4	7.0	5.0	.4	.4	—	—	2.3	—
Iowa.....	1.0	.5	1.9	2.5	1.9	—	—	.5	—	—	—	—	—
Kansas.....	—	.7	3.8	5.3	7.1	—	—	—	—	2.6	—	—	—
Kentucky.....	.9	1.4	4.1	3.7	—	—	—	—	—	—	—	—	—
Louisiana.....	1.8	4.8	5.3	6.0	4.4	—	2.4	—	—	7.2	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	.7	—	—	—
Michigan.....	1.3	1.3	1.1	5.1	7.7	9.2	5.0	2.3	.3	.8	—	—	—
Minnesota.....	1.3	5.2	2.6	5.2	5.8	4.3	4.9	1.3	—	—	—	—	—
Mississippi.....	4.6	5.3	12.4	18.4	7.5	5.3	2.0	2.0	—	2.8	—	—	—
Nebraska.....	.8	—	1.9	—	—	—	—	—	—	—	—	—	—
New Jersey.....	.9	.9	2.4	1.8	2.2	.6	1.0	.3	.3	2.5	—	—	—
New York <sup>1</sup> .....	1.5	5.8	4.4	5.0	3.6	4.1	2.1	1.0	1.4	.6	.6	.2	1.2
North Carolina.....	2.0	1.2	2.7	.4	.8	.8	—	—	—	21.2	—	—	—
Pennsylvania.....	2.8	7.4	7.0	6.5	6.0	5.9	3.8	1.8	—	2.8	1.1	4.3	2.8
Rhode Island.....	18.1	—	—	—	—	—	—	—	—	5.7	3.2	—	—
South Carolina.....	—	—	—	10.0	6.9	1.7	1.7	3.3	—	—	—	—	—
South Dakota.....	.5	—	.9	1.0	.5	.5	.5	1.5	—	.5	.9	—	—
Tennessee.....	2.7	2.7	1.0	3.2	2.4	3.7	.9	.5	.9	—	—	—	—
Virginia.....	.4	2.0	2.2	2.4	7.0	6.0	4.5	2.0	—	—	—	—	—

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928	1929								1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
SCARLET FEVER (8)													
Alabama	1.7	1.4	1.7	2.6	2.6	3.7	4.4	0.9	1.4	0.9	0.8	0.9	0.5
California	2.1	1.8	2.6	2.9	.7	.7	.7	1.4		1.5		2.3	0.8
Connecticut	2.2												
Georgia	1.5	2.0											
Indiana	2.6	6.3	5.7	4.4	3.8	4.4	3.4	1.5	1.9	.4			
Iowa	7.3	2.4	4.3	2.9	3.5	1.9		1.5	1.5				
Kansas	2.6	5.8	5.0	6.4	6.0	2.6						7.1	
Kentucky	.9	5.5	6.1	5.1									
Louisiana	.6				1.2	.6	1.8						
Maryland								1.5					
Michigan	5.9	4.4	5.4	5.4	7.7	3.3	2.7	1.5	.5	1.5			
Minnesota	1.7	6.1	2.2	3.9	2.7	2.2		1.3	1.7	.9			
Nebraska	2.5	6.7	8.3										
New Jersey	1.8	1.5	1.4	1.2	2.2	1.5	1.6	.3		.3			
New York <sup>1</sup>	1.7	4.5	3.7	3.1	2.6	2.3	1.1	.8	1.4	.2	1.3	.4	.5
North Carolina	1.6	2.4	1.8	1.2	2.9	2.4				1.2			
Pennsylvania	3.1	4.8	3.3	3.0	3.3	3.1	2.1	1.4		.9	1.5	2.4	2.0
Rhode Island	3.3												
South Carolina	1.9	1.3				1.3	.7	1.3		.6			
South Dakota	3.3	1.7	5.6	6.0	6.7	5.2			1.7				
Tennessee	2.8	1.4	4.7	3.3	2.9	2.8		.9	.5	.5	.9		
Virginia	2.3	1.4	1.0	1.8		.5	.5						
Wisconsin	3.6	2.4	4.4	3.6	6.4	.4	2.9	2.0	1.2	1.2			
WHOOPING COUGH (9)													
Alabama	6.9	9.1	10.1	7.0	10.4	10.1	10.4	17.4	11.9	6.9	17.4	11.8	6.2
California	10.9	7.0	4.3	7.2	8.3	9.0	10.2			8.5			
Connecticut	2.9	6.5	4.0	2.9	.7	2.2	3.0	2.2		2.9		3.8	3.8
Georgia	4.0	3.7	5.5	4.9	4.9	4.4	13.7	15.8	13.6				
Hawaii Territory	20.2	30.4	37.4	40.5	83.7	67.5	38.3	16.4	6.6	3.4	3.6		
Indiana	5.6	7.0	6.2	6.3	6.5	7.0	6.5	4.8	6.7	6.3	5.6	10.9	
Iowa	5.3	5.3	3.2	6.3	8.0	4.8		4.8	4.8	4.8			
Kansas	2.6	5.8	7.8	5.8	4.6	2.6						7.7	
Kentucky	7.4	10.6	13.8	8.8									
Louisiana	7.8	5.4	6.7	6.0	7.5	6.0	6.9	11.5		13.3			
Maryland													
Michigan	10.0	7.2	7.7	4.6	7.2	8.2	5.6	3.3	7.4	4.9			
Minnesota	6.5	9.1	6.1	4.3	4.9	5.2	.9	4.8	3.0	5.2			
Mississippi	5.9	11.2	10.2	11.2	14.3	10.5	17.7	12.5		8.3			
Nebraska	5.0	3.3	1.9										
New Jersey	4.9	13.3	6.8	6.2	5.7	4.0	2.2	2.8	4.9	7.4			
New York <sup>1</sup>	1.7	6.2	5.0	5.4	4.3	3.3	2.1	1.3	4.1	3.0	2.6	6.8	4.9
North Carolina	4.4	9.2	8.4	5.2	7.5	9.6						7.6	
Pennsylvania	12.0	12.4	8.4	5.2	4.8	4.3	4.3	5.0		3.7	4.6	7.8	5.7
Rhode Island	3.3												
South Carolina	7.6	3.2	9.1	7.6	13.1	17.1	22.8	18.3		12.0	24.9		
South Dakota	1.7	3.7	3.3	1.7	11.7	6.9	1.7	1.7		8.4			
Tennessee	5.2	10.4	6.8	4.2	6.3	7.5	6.3	13.7	10.0	3.8	10.9		
Virginia	6.4	18.3	9.1	6.9	6.1	8.2	9.9	12.8	16.9				
Wisconsin	3.2	2.4	3.5	3.2	6.6	5.6	4.9	4.4	4.0	4.0			

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1929									1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
DIPHTHERIA (10)													
Alabama.....	17.9	10.0	3.9	4.3	2.8	2.3	1.4	2.8	7.3	5.0	7.0	4.7	7.2
California.....	5.4	4.9	3.7	1.8	2.7	3.4	4.3	—	—	4.8	—	—	—
Connecticut.....	8.0	3.6	4.0	2.9	3.7	1.3	3.7	2.9	—	1.5	3.7	1.5	5.4
Georgia.....	7.4	2.4	1.8	1.9	22.4	20.9	10.5	11.4	5.2	—	—	—	—
Hawaii Territory.....	6.7	3.4	11.2	13.5	20.9	6.7	10.5	6.6	3.3	10.1	21.7	—	—
Indiana.....	10.0	5.9	5.7	3.7	5.0	3.3	1.5	2.2	3.0	2.2	4.5	2.6	—
Iowa.....	4.4	—	—	—	5.2	2.0	1.5	—	—	5	—	—	—
Kansas.....	7.1	2.6	2.8	4.5	4.6	1.3	—	—	—	2.6	—	—	—
Kentucky.....	17.5	12.5	10.2	5.1	—	—	—	—	—	—	—	—	—
Louisiana.....	16.3	4.2	8.7	3.0	2.5	5.4	3.1	3.6	—	.6	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Michigan.....	12.8	12.1	8.5	12.6	10.3	11.3	13.0	9.8	6.9	6.7	—	—	—
Minnesota.....	5.2	2.2	2.2	3.0	2.2	2.6	.9	2.6	1.7	1.3	—	—	—
Mississippi.....	15.1	6.6	5.8	2.0	2.0	—	1.4	1.3	—	6.0	—	—	—
Nebraska.....	4.2	5.0	5.6	—	—	—	—	—	—	—	—	—	—
New Jersey.....	14.2	20.6	13.0	10.2	10.5	10.5	9.9	8.9	5.5	7.1	—	—	—
New York <sup>1</sup> .....	3.8	4.5	3.4	3.7	2.4	3.1	4.1	2.1	2.7	1.3	3.0	3.9	3.4
North Carolina.....	26.4	16.8	10.2	4.8	4.1	1.6	—	—	—	2.0	—	—	—
Pennsylvania.....	10.8	10.3	7.1	9.2	6.8	5.7	5.7	4.4	—	4.8	6.2	6.3	5.7
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—	—
South Carolina.....	24.6	6.3	4.9	6.9	2.0	4.4	3.3	1.9	—	.6	—	—	—
South Dakota.....	1.7	—	1.9	—	3.5	3.3	—	—	—	1.7	—	—	—
Tennessee.....	18.8	7.5	4.7	4.7	2.9	3.3	2.9	1.4	6.1	2.4	3.3	—	—
Virginia.....	12.3	8.2	4.6	7.8	1.9	1.4	1.4	2.7	3.2	—	—	—	—
Wisconsin.....	4.8	2.8	3.1	2.0	.8	4.4	2.5	1.6	2.0	1.2	—	—	—
INFLUENZA (11)													
Alabama (total).....	164.7	762.7	236.7	117.9	53.2	43.6	19.5	9.6	9.2	16.5	8.4	9.9	10.0
White.....	152.8	711.4	241.3	110.0	47.1	32.2	18.1	8.4	6.3	11.9	7.3	4.4	—
Colored.....	185.9	973.1	261.0	150.4	64.0	77.8	21.8	11.9	14.5	25.1	10.5	19.7	—
California.....	254.0	94.5	47.2	40.1	23.5	13.4	7.5	—	—	14.4	—	—	—
Connecticut.....	34.3	196.6	133.5	40.9	21.5	9.3	3.7	2.9	—	6.6	7.4	5.3	1.5
Georgia.....	503.2	164.0	77.2	74.5	22.4	20.9	11.4	5.2	—	—	—	—	—
Hawaii Territory.....	30.4	23.6	20.9	23.6	38.3	27.0	20.9	19.7	13.2	37.1	3.6	—	—
Indiana.....	267.7	341.4	131.3	66.0	36.4	21.1	13.0	11.1	8.5	8.2	7.5	8.3	12.6
Iowa.....	256.5	312.3	101.5	57.7	28.1	28.6	—	9.7	5.3	12.1	—	—	—
Kansas.....	392.7	221.4	120.8	85.3	46.4	29.5	—	—	—	78.9	—	—	—
Kentucky.....	142.0	618.6	281.9	98.7	—	—	—	—	—	—	—	—	—
Louisiana.....	162.4	490.9	178.8	95.4	41.8	19.9	11.8	11.5	—	19.9	—	—	—
White.....	144.5	424.3	140.4	76.5	30.8	14.9	9.6	8.4	—	14.9	—	—	—
Colored.....	195.3	613.2	252.2	130.2	61.9	29.1	15.9	17.1	—	29.1	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	—	—	—	—
White.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Colored.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Michigan.....	157.2	237.7	76.9	39.5	24.1	21.8	10.2	6.7	5.1	5.4	—	—	—
Minnesota.....	150.1	231.9	55.4	38.9	19.2	17.7	6.7	4.3	5.2	7.8	—	—	—
Mississippi.....	213.7	897.9	172.5	118.3	42.8	27.0	17.7	11.2	—	13.8	—	—	—
Nebraska.....	367.9	219.9	108.3	—	—	—	—	—	—	—	—	—	—
New Jersey.....	45.0	164.2	59.4	25.0	15.0	10.2	2.2	2.2	1.8	3.4	1.9	2.2	2.0
New York <sup>1</sup> .....	37.5	235.4	98.2	36.6	23.1	13.0	3.3	2.9	2.0	2.3	3.2	4.1	2.7
North Carolina.....	195.2	375.5	281.3	116.2	59.2	37.3	—	—	—	34.1	—	—	—
Pennsylvania.....	172.3	357.9	95.6	55.0	26.9	20.6	10.0	6.7	—	10.2	5.9	7.5	5.2
Rhode Island.....	—	231.9	—	—	—	—	—	—	—	—	—	—	—
South Carolina.....	353.7	382.2	172.7	98.5	51.6	29.7	17.6	13.9	—	8.8	2.6	—	—
South Dakota.....	224.1	249.1	124.1	45.2	41.5	38.5	15.6	10.0	11.7	15.1	—	—	—
Tennessee.....	225.9	644.7	252.2	153.9	71.0	33.4	18.0	13.2	10.4	13.2	10.0	—	—
White.....	596.1	238.2	141.4	61.6	27.8	14.7	11.9	9.7	—	—	—	—	—
Colored.....	880.3	319.8	214.6	116.6	60.5	34.1	19.2	13.7	—	—	—	—	—
Virginia.....	155.0	591.2	192.9	98.2	48.7	19.2	9.9	5.0	5.9	—	—	—	—
White.....	149.8	585.8	156.7	63.2	36.6	11.4	5.9	1.9	7.0	—	—	—	—
Colored.....	168.9	605.3	287.5	153.8	80.3	39.7	20.6	13.2	3.3	—	—	—	—
Wisconsin.....	199.8	269.1	75.9	36.3	27.2	20.7	9.9	7.2	6.0	5.2	—	—	—

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928		1929							1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
POLIOMYELITIS (22)													
Alabama	1.8	0.4	2.4	0.4	0.9	—	2.8	0.5	1.4	0.9	0.9	0.5	—
California	1.3	.3	.9	.8	.8	2.1	.8	—	.7	1.1	—	—	—
Connecticut	.7	—	—	—	—	3.4	1.5	.7	—	—	—	—	3.8
Hawaii Territory	—	—	—	—	—	—	—	—	—	—	—	—	—
Indiana	.4	.7	—	.4	—	—	.4	—	—	.7	—	—	—
Iowa	1.5	1.9	—	1.5	.5	—	—	.5	1.0	.5	—	—	—
Kansas	.6	.6	—	.6	—	—	—	—	—	—	—	—	—
Kentucky	.9	.9	1.0	.5	—	—	—	—	—	—	—	—	—
Louisiana	—	—	.7	1.2	1.3	.6	—	.6	—	1.2	—	—	—
Maryland	—	—	—	—	—	—	—	—	—	.7	—	—	—
Michigan	.8	1.3	.3	.8	.5	.5	.8	1.0	1.0	.5	—	—	—
Minnesota	—	—	.9	.4	.9	—	—	—	—	.4	6.1	—	—
Mississippi	—	—	1.5	.7	1.4	—	2.0	2.0	—	—	2.8	—	—
New Jersey	.3	.3	.6	.3	.3	—	.6	.6	—	.3	1.5	—	—
New York <sup>1</sup>	.4	.6	.7	.2	.2	.4	.2	1.4	3.3	3.6	1.3	8.3	7.0
North Carolina	.4	.4	1.6	1.2	.8	—	—	—	—	1.2	—	—	—
Pennsylvania	1.6	.6	.6	.4	—	.5	.7	.5	—	.5	.6	.5	.9
South Carolina	—	.6	.7	.6	—	1.3	—	.6	—	1.9	—	—	—
South Dakota	3.3	3.3	3.7	—	—	5.0	—	—	—	—	8.4	—	—
Tennessee	4.2	.9	.5	.9	.5	1.9	1.5	1.9	1.4	1.9	.9	—	—
Virginia	1.8	.5	—	1.4	.9	—	—	.9	4.6	—	—	—	—
Wisconsin	.8	—	.4	—	—	.8	1.2	.4	—	.8	—	—	—
LETHARGIC ENCEPHALITIS (23)													
Alabama	—	1.8	0.5	2.3	1.9	0.5	0.5	0.9	0.5	0.5	—	—	—
California	1.8	3.4	1.4	1.0	2.4	1.6	1.3	—	—	1.3	—	—	—
Connecticut	.7	7	3.2	2.2	—	1.4	.7	.7	—	2	—	—	—
Hawaii Territory	—	—	1.9	.8	1.1	1.5	.7	1.1	—	3.3	3.3	—	—
Indiana	—	—	2.4	1.0	2.4	1.0	1.5	—	.5	—	.4	—	—
Iowa	1.9	2.4	1.0	2.4	1.0	1.5	—	—	—	—	.5	—	—
Kansas	3.2	.6	—	.6	.7	2.6	—	—	—	—	1.9	—	—
Kentucky	—	.5	.5	—	2.2	—	—	—	—	—	—	—	—
Louisiana	1.2	—	—	1.2	—	—	1.8	—	—	—	—	—	—
Michigan	1.0	1.5	1.1	1.0	1.6	2.3	2.1	—	.5	.3	2.1	—	—
Minnesota	3.0	3.5	2.2	2.0	1.8	1.7	4.0	2.6	.9	1.7	—	—	—
Mississippi	—	—	.7	.7	1.4	.7	—	—	—	—	—	—	—
Nebraska	.8	—	2.8	—	—	—	—	—	—	—	—	—	—
New Jersey	.3	2.2	1.7	1.5	1.0	1.2	1.9	.6	1.2	1.2	—	—	—
New York <sup>1</sup>	1.1	1.2	.9	1.2	.7	.8	2.4	.6	1.0	.8	0.9	1.5	1.2
North Carolina	.8	4	1.8	.8	.4	.4	—	—	—	—	.4	—	—
Pennsylvania	1.0	1.3	2.0	1.0	1.2	1.2	.6	1.0	—	1.2	1.4	1.1	1.0
South Carolina	.6	1.3	1.4	5.1	2.0	4.4	3.3	—	—	1.3	2.6	—	—
South Dakota	1.7	1.7	—	—	—	1.7	—	1.7	—	—	—	—	—
Tennessee	.5	—	1.0	—	—	1.5	—	.5	1.9	.9	.5	.9	—
Virginia	2.3	—	.5	1.4	2.4	.5	.9	—	1.4	—	—	—	—
Wisconsin	.8	.4	2.2	2.0	1.6	2.8	2.5	2.8	.4	.8	—	—	—
MENINGOCOCCUS MENINGITIS (24)													
Alabama	—	1.4	3.9	1.5	—	0.5	0.9	0.5	0.5	0.5	—	—	—
California	7.2	11.1	10.3	14.2	12.6	13.2	9.4	—	—	1.9	—	—	—
Connecticut	2.2	—	2.4	3.6	.7	1.4	—	—	—	7	2.2	—	2.3
Hawaii Territory	6.7	10.1	18.7	70.9	38.3	50.6	27.9	19.7	3.3	6.7	3.6	—	—
Indiana	1.5	1.1	—	1.1	1.9	3.0	1.9	1.1	.7	—	—	—	—
Iowa	1.5	2.4	3.8	2.9	2.0	1.5	—	1.9	1.0	1.0	—	—	—
Kansas	1.3	3.8	5.0	3.8	2.7	3.2	—	—	—	—	1.9	—	—
Louisiana	3.0	1.2	4.7	4.2	5.6	1.8	1.9	—	—	—	.6	—	—
Michigan	4.6	6.9	12.5	29.8	37.9	41.8	27.8	19.2	11.0	—	2.8	—	—
Minnesota	3.9	3.0	2.6	.4	2.2	1.7	1.3	3.5	1.7	—	.9	—	—
Mississippi	2.0	1.3	.7	.7	.7	—	—	.7	1.3	—	1.4	—	—
Nebraska	—	.8	7.4	—	—	—	—	—	—	—	—	—	—
New Jersey	3.1	3.4	2.4	2.5	2.2	4.6	2.2	2.2	1.2	2.2	—	—	—
New York <sup>1</sup>	.6	.6	1.8	1.0	2.1	1.4	.6	1.0	2.1	.8	.6	—	1.0
North Carolina	.4	—	.4	.4	.4	1.2	—	—	—	—	—	—	—
Pennsylvania	1.3	1.7	2.8	3.1	2.2	3.4	1.2	1.6	—	.9	.1	0.8	.1
Rhode Island	—	1.6	—	—	—	—	—	—	—	—	—	—	—
South Carolina	2.5	1.3	2.8	3.2	3.9	2.5	2.0	1.9	—	.6	1.3	—	—
South Dakota	—	—	3.7	10.0	1.7	—	—	—	—	—	1.7	—	—
Tennessee	2.8	1.9	1.0	3.9	3.4	1.9	1.5	2.8	.5	1.4	.5	—	—
Virginia	.9	1.8	1.5	1.8	1.4	2.7	.9	1.4	—	—	—	—	—
Wisconsin	3.6	.4	6.6	10.0	2.9	3.6	4.5	1.2	2.4	.4	—	—	—

<sup>1</sup> Exclusive of New York City.

*Monthly State mortality statistics—Continued*

State	1920								1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July				
TUBERCULOSIS, ALL FORMS (31-37)												
Alabama (total).....	73.0	76.6	83.6	80.5	91.8	88.1	81.3	86.5	78.7	83.5	85.4	88.5
White.....	44.9	54.7	62.9	51.9	55.0	45.6	39.1	45.6	37.8	37.8	45.9	47.3
Colored.....	125.3	129.2	134.2	144.6	159.4	167.4	159.4	163.5	155.6	168.8	156.6	161.7
California.....	146.0	137.5	147.9	149.4	138.6	139.6	130.3	130.3	128.4	128.4	128.4	128.4
Connecticut.....	66.4	66.0	77.1	68.2	64.5	66.0	61.5	61.7	68.6	60.1	59.7	83.1
Georgia.....	64.3	60.6	66.9	74.5	72.4	85.9	68.7	59.2	59.2	59.2	59.2	59.2
Hawaii Territory.....	141.7	108.0	89.6	91.2	121.9	124.8	120.0	111.8	105.2	148.4	112.3	112.3
Indiana.....	80.5	78.2	76.8	79.7	81.6	74.9	81.2	58.2	63.4	58.9	62.4	79.1
Iowa.....	38.8	34.9	38.7	35.4	40.6	37.3	37.3	35.9	36.4	29.1	29.1	29.1
Kansas.....	35.9	39.1	50.4	41.1	36.5	41.1	41.1	41.1	41.1	43.6	43.6	43.6
Kentucky.....	97.8	116.2	121.0	91.3	128.0	91.6	92.4	104.2	90.6	99.2	83.3	93.0
Louisiana.....	85.7	128.0	91.6	92.4	104.2	90.6	99.2	83.3	83.3	45.7	45.7	45.7
White.....	52.2	88.6	61.9	50.4	54.9	47.6	53.0	42.9	42.9	45.7	45.7	45.7
Colored.....	147.3	200.4	146.0	169.6	194.7	169.6	184.1	157.6	157.6	109.8	109.8	109.8
Maryland.....	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
White.....	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	67.6	70.2	70.2
Colored.....	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	208.8	209.6	209.6
Michigan.....	69.2	80.0	72.1	72.3	80.6	85.7	71.3	66.2	60.0	60.8	60.8	60.8
Minnesota.....	50.2	49.3	48.4	60.1	65.3	55.8	57.2	49.7	51.9	54.9	54.9	54.9
Mississippi.....	90.1	84.2	72.1	96.0	98.5	91.4	95.8	83.5	83.5	78.2	78.2	78.2
White.....	41.4	45.5	45.8	53.8	41.3	38.6	39.9	30.3	30.3	48.3	48.3	48.3
Colored.....	124.7	119.6	96.2	134.7	150.9	139.8	147.0	132.2	132.2	105.6	105.6	105.6
Nebraska.....	19.2	30.9	38.9	19.2	19.2	19.2	19.2	19.2	19.2	66.8	66.8	66.8
New Jersey.....	65.9	76.4	84.3	84.7	84.7	76.1	70.1	75.5	72.4	76.1	71.9	68.8
New York <sup>1</sup> .....	67.1	84.8	82.8	76.3	80.6	82.3	78.4	64.7	70.3	71.1	75.4	73.7
North Carolina.....	84.2	91.0	91.0	89.4	102.7	91.4	91.4	91.4	91.4	93.8	93.8	93.8
Pennsylvania.....	67.3	79.6	69.4	66.7	68.8	69.6	63.6	62.3	62.3	68.9	65.5	71.0
Rhode Island.....	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	75.7	75.7	75.7
South Carolina.....	94.7	64.4	65.0	77.7	71.2	87.8	94.0	79.0	79.0	87.8	95.7	95.7
South Dakota.....	60.2	53.5	57.4	48.5	48.4	60.2	48.4	55.2	65.2	95.3	95.3	95.3
Tennessee.....	145.9	140.7	145.9	139.3	149.6	133.2	140.5	112.9	105.9	112.5	119.4	119.4
White.....	121.5	119.4	113.0	107.4	102.8	109.1	109.1	79.0	81.2	81.2	81.2	81.2
Colored.....	233.8	274.1	266.8	338.3	230.6	292.8	277.6	225.4	225.4	225.4	225.4	225.4
Virginia.....	88.3	116.1	85.6	84.1	93.6	90.9	78.4	82.3	76.8	76.8	76.8	76.8
White.....	67.0	101.8	65.8	56.3	53.6	58.8	45.7	49.3	48.7	48.7	48.7	48.7
Colored.....	143.9	153.8	137.3	157.1	198.3	196.8	164.1	168.7	150.5	150.5	150.5	150.5
Wisconsin.....	48.6	44.3	47.7	63.8	72.9	47.8	63.4	48.3	46.3	52.2	52.2	52.2
CANCER, ALL FORMS (43-49)												
Alabama (total).....	50.5	33.1	45.9	41.3	45.0	48.2	54.7	50.8	44.4	57.4	40.3	52.0
White.....	48.4	38.6	49.7	46.3	55.8	52.6	53.6	58.9	40.6	62.4	43.7	56.9
Colored.....	54.1	27.7	30.7	38.2	40.9	39.6	55.9	35.6	51.4	47.5	34.2	43.4
California.....	164.1	151.4	129.6	135.4	140.7	146.0	144.5	144.5	131.4	131.4	131.4	131.4
Connecticut.....	118.2	98.3	114.4	118.4	103.0	116.2	100.8	103.3	99.2	96.5	101.2	109.3
Georgia.....	37.5	41.5	41.5	41.5	36.1	39.7	50.1	44.5	47.4	35.7	35.7	35.7
Hawaii Territory.....	50.6	54.0	89.6	54.0	59.3	67.5	80.2	59.2	36.2	74.2	83.3	83.3
Indiana.....	100.5	100.8	98.5	90.0	101.9	110.9	90.0	107.1	84.9	109.7	99.8	106.7
Iowa.....	121.2	97.5	116.0	114.0	112.7	109.1	110.1	111.5	106.2	115.4	115.4	115.4
Kansas.....	117.4	84.7	107.3	91.8	96.8	86.6	86.6	86.6	86.6	93.0	93.0	93.0
Kentucky.....	57.7	65.0	61.8	46.6	46.6	46.6	46.6	46.6	46.6	70.6	70.6	70.6
Louisiana.....	77.3	67.6	64.2	61.0	77.4	75.5	63.0	62.8	62.8	74.6	74.6	74.6
White.....	85.8	68.1	37.9	58.2	73.2	66.7	66.7	62.5	62.5	63.4	63.4	63.4
Colored.....	61.7	66.8	78.5	62.5	85.0	54.8	56.6	56.6	56.6	63.4	63.4	63.4
Maryland.....	78.6	70.2	93.5	78.6	78.6	78.6	78.6	78.6	78.6	124.9	124.9	124.9
White.....	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	82.0	72.9	72.9
Colored.....	96.4	100.3	96.0	96.9	98.3	89.0	86.7	100.5	102.8	87.5	87.5	87.5
Michigan.....	110.7	109.9	84.8	112.9	112.2	98.6	96.5	97.3	110.3	105.1	105.1	105.1
Minnesota.....	53.9	37.5	56.8	45.4	51.6	52.6	61.1	38.8	38.8	39.4	39.4	39.4
Mississippi.....	67.6	45.5	65.6	56.5	57.0	55.2	78.4	44.1	44.1	42.7	42.7	42.7
White.....	41.6	30.2	48.8	35.3	46.8	50.4	45.5	34.0	34.0	36.4	36.4	36.4
Nebraska.....	78.6	70.2	93.5	78.6	78.6	78.6	78.6	78.6	78.6	108.6	108.6	108.6
New Jersey.....	119.9	100.1	116.7	115.9	105.7	110.9	117.8	123.3	104.5	99.8	96.4	108.6
New York <sup>1</sup> .....	115.5	138.1	136.0	115.4	117.9	128.4	118.1	120.1	121.6	123.5	126.6	119.8
Pennsylvania.....	94.4	102.1	99.8	101.4	96.6	98.0	91.0	100.4	99.3	93.6	96.4	92.2
Rhode Island.....	136.5	34.1	37.8	32.2	36.6	49.1	43.1	43.6	46.7	36.4	36.4	36.4
South Carolina.....	49.3	53.5	63.0	51.8	74.3	60.2	69.1	66.9	71.9	80.3	80.3	80.3
South Dakota.....	87.0	49.4	59.9	57.4	63.2	53.6	56.9	62.1	58.8	55.5	54.0	54.0
Tennessee.....	66.4	48.2	59.1	58.5	62.2	50.5	52.8	61.3	56.2	56.2	56.2	56.2
White.....	55.0	64.0	52.3	58.2	68.8	76.8	66.0	71.5	71.5	55.5	55.5	55.5
Colored.....	63.6	55.3	63.3	63.6	56.7	59.4	56.2	68.6	59.9	59.9	59.9	59.9
Virginia.....	72.0	58.1	67.9	65.1	62.0	63.8	59.4	75.8	61.3	61.3	61.3	61.3
White.....	41.3	48.0	51.3	59.5	42.7	48.0	47.9	49.6	56.2	56.2	56.2	56.2
Colored.....	111.2	98.1	109.0	97.3	104.7	104.9	96.8	111.2	117.6	104.1	104.1	104.1

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928 Dec.	1929								1928	1927	1926	1925
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
DIABETES (57)													
Alabama (total)-----	10.1	17.0	6.3	5.2	10.9	6.4	10.0	6.4	5.0	7.8	7.0	5.8	5.2
White-----	11.9	18.9	8.5	4.9	12.3	5.6	12.3	4.9	5.6	9.1	8.0	5.9	5.9
Colored-----	6.5	15.8	2.9	6.6	8.2	7.9	5.4	9.2	4.0	5.3	5.3	5.3	5.3
California-----	33.3	28.9	28.9	25.6	21.4	18.1	19.0	-----	-----	17.6	-----	-----	-----
Connecticut-----	14.6	15.8	23.8	21.5	14.1	17.2	11.9	15.1	-----	20.4	-----	-----	-----
Georgia-----	13.6	8.1	9.9	6.5	6.3	7.6	10.3	-----	-----	-----	-----	-----	-----
Hawaii Territory-----	6.7	13.5	3.7	10.1	13.9	16.9	17.4	10.7	3.3	6.7	10.9	-----	-----
Indiana-----	14.8	17.8	14.8	16.7	13.8	14.1	11.9	12.2	16.3	14.5	-----	-----	-----
Iowa-----	29.6	29.1	18.3	16.0	18.0	21.3	-----	16.5	11.6	17.5	-----	-----	-----
Kansas-----	38.5	30.2	22.0	22.5	22.5	19.2	-----	-----	-----	18.6	-----	-----	-----
Kentucky-----	10.2	12.9	10.2	11.1	7.0	10.3	6.2	9.7	-----	9.7	-----	-----	-----
Louisiana-----	12.7	15.7	15.4	17.5	17.5	10.3	-----	-----	-----	9.3	-----	-----	-----
White-----	14.0	20.5	17.5	22.4	6.7	8.4	2.9	11.2	-----	10.3	-----	-----	-----
Colored-----	10.3	6.8	11.4	8.6	7.1	13.7	12.4	6.9	-----	-----	-----	-----	-----
Maryland-----	-----	-----	-----	-----	-----	-----	-----	21.9	13.1	-----	-----	-----	-----
White-----	-----	-----	-----	-----	-----	-----	-----	20.8	13.0	-----	-----	-----	-----
Colored-----	-----	-----	-----	-----	-----	-----	-----	22.8	13.7	-----	-----	-----	-----
Michigan-----	26.4	26.4	21.9	22.8	21.2	22.3	19.3	20.3	17.4	16.2	-----	-----	-----
Minnesota-----	26.0	28.1	18.6	21.2	13.9	14.7	15.2	9.5	21.2	12.5	-----	-----	-----
Mississippi-----	14.5	11.8	5.8	10.5	6.8	7.2	2.0	8.6	-----	5.9	-----	-----	-----
White-----	17.9	15.2	3.1	6.9	7.1	6.9	1.4	8.3	-----	4.1	-----	-----	-----
Colored-----	11.3	8.8	8.4	13.9	6.5	7.6	2.6	8.8	-----	7.5	-----	-----	-----
Nebraska-----	40.1	26.8	16.7	-----	-----	-----	-----	-----	-----	3.8	3.2	-----	-----
New Jersey-----	26.2	33.9	27.0	22.8	24.5	22.2	22.6	22.8	17.9	19.4	-----	-----	-----
New York <sup>1</sup> -----	28.2	41.6	29.8	28.1	22.9	27.1	22.3	25.4	20.1	24.0	22.5	20.3	22.3
Pennsylvania-----	26.2	31.7	26.2	22.5	23.4	21.8	16.2	15.2	-----	18.6	16.1	17.9	15.5
Rhode Island-----	24.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Carolina-----	17.7	7.0	11.2	8.8	5.2	7.6	3.3	10.7	-----	-----	-----	-----	-----
South Dakota-----	31.8	28.4	11.1	28.4	8.6	21.7	20.7	10.0	20.1	18.4	-----	-----	-----
Tennessee-----	8.5	11.8	10.4	12.2	9.2	10.4	9.2	8.0	8.9	7.1	-----	-----	-----
White-----	-----	13.1	12.6	13.6	8.2	10.2	7.6	9.1	7.4	-----	-----	-----	-----
Colored-----	5.5	-----	-----	5.5	14.2	11.0	17.2	2.8	16.5	-----	-----	-----	-----
Virginia-----	13.3	19.7	8.6	7.8	10.9	7.8	7.1	10.1	10.1	-----	-----	-----	-----
White-----	11.4	22.1	6.3	7.6	13.1	5.1	6.5	9.5	11.4	-----	-----	-----	-----
Colored-----	18.2	13.2	14.7	8.3	5.1	14.9	8.6	11.6	6.6	-----	-----	-----	-----

## DISEASES OF THE NERVOUS SYSTEM (70-86)

Alabama (total)-----	109.4	92.4	95.8	100.7	108.3	111.2	97.9	87.0	96.1	96.6	-----	-----	-----
White-----	100.9	80.6	86.9	95.3	97.0	99.5	79.7	69.4	78.5	61.4	-----	-----	-----
Colored-----	125.3	114.7	112.4	110.8	129.4	133.2	132.2	120.0	129.2	133.2	-----	-----	-----
California-----	181.2	161.8	150.8	142.4	143.4	145.0	139.9	-----	-----	132.5	-----	-----	-----
Iowa-----	144.0	143.5	170.2	141.1	144.3	134.3	-----	123.6	120.7	117.8	-----	-----	-----
Kansas-----	215.0	154.6	162.0	170.0	139.2	143.7	-----	-----	-----	146.3	-----	-----	-----
Kentucky-----	107.5	122.2	112.3	98.7	-----	-----	-----	-----	-----	-----	102.6	-----	-----
Louisiana-----	122.6	115.3	105.6	89.4	91.7	91.2	101.7	79.7	-----	73.7	-----	-----	-----
White-----	117.5	99.8	94.0	68.1	80.0	64.3	85.8	69.0	-----	99.3	155.9	-----	-----
Colored-----	131.9	143.9	127.1	128.5	113.3	140.5	131.0	-----	-----	115.8	96.9	-----	-----
Maryland-----	-----	-----	-----	-----	-----	-----	-----	114.5	94.5	-----	123.8	109.4	-----
White-----	-----	-----	-----	-----	-----	-----	-----	114.5	94.5	-----	114.5	94.5	-----
Colored-----	-----	-----	-----	-----	-----	-----	-----	114.5	94.5	-----	114.5	94.5	-----
Michigan-----	161.8	174.1	142.5	151.8	138.6	145.2	126.1	115.2	135.9	103.4	-----	-----	-----
Minnesota-----	99.9	109.4	95.6	112.5	99.7	100.8	82.2	91.3	77.4	76.6	-----	-----	-----
Nebraska-----	117.9	122.1	133.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey-----	118.9	147.6	131.0	132.2	128.3	112.5	96.5	103.5	88.7	101.1	99.2	104.3	113.7
New York <sup>1</sup> -----	148.4	194.2	175.4	170.0	150.4	160.3	119.7	125.9	118.9	120.6	124.5	126.8	168.2
Pennsylvania-----	129.1	153.4	135.5	131.4	122.4	119.6	94.0	96.0	-----	-----	-----	-----	-----
Rhode Island-----	182.5	-----	-----	-----	-----	-----	-----	181.4	123.7	-----	-----	-----	-----
South Dakota-----	130.5	60.2	103.7	98.7	96.8	83.6	81.2	70.2	98.7	103.7	-----	-----	-----
Tennessee-----	105.9	104.7	117.2	103.6	106.4	104.1	98.8	83.8	-----	-----	-----	-----	-----
White-----	94.2	96.2	104.5	90.3	85.9	91.5	81.8	75.5	-----	-----	-----	-----	-----
Colored-----	162.3	146.2	178.8	167.7	206.3	250.2	181.4	123.7	-----	-----	-----	-----	-----
Virginia-----	119.8	155.9	142.8	125.7	108.4	108.7	111.6	86.0	-----	-----	-----	-----	-----
White-----	85.3	127.0	114.8	106.8	101.2	88.4	89.5	97.3	60.0	-----	-----	-----	-----
Colored-----	210.0	231.6	216.1	188.7	189.9	160.4	158.9	148.9	153.8	-----	-----	-----	-----

<sup>1</sup> Exclusive of New York City.

*Monthly State mortality statistics—Continued*

State	1928	1929									1928	1927	1926	1925
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
CEREBRAL HEMORRHAGE, APoplexy (74)														
Alabama (total).....	65.0	50.9	55.1	53.9	63.7	68.4	56.6	56.3	55.8	49.6	41.7	40.2	.....	.....
White.....	65.9	45.6	52.8	57.5	54.3	58.9	44.9	42.8	46.3	35.7	44.5	35.5	.....	.....
Colored.....	63.8	68.6	65.7	55.4	79.0	84.4	76.3	81.8	73.8	75.2	36.8	48.6	.....	.....
California.....	128.7	113.5	105.6	97.7	100.9	91.7	95.8	92.1	.....	.....	.....	.....	.....	.....
Georgia.....	64.7	76.1	65.8	61.1	67.6	77.5	69.5	59.6	.....	.....	.....	.....	.....	.....
Hawaii Territory.....	67.5	60.7	71.0	40.5	48.8	50.6	45.3	72.4	55.9	70.8	47.1	.....	.....	.....
Indiana.....	140.1	138.7	126.0	120.1	104.2	107.1	106.5	104.5	85.6	93.8	91.6	90.5	95.1	.....
Iowa.....	106.2	102.8	125.6	92.6	108.7	98.4	.....	88.7	89.7	85.3	.....	.....	.....	.....
Kansas.....	165.5	127.0	132.1	133.5	110.8	112.9	.....	.....	.....	106.5	.....	.....	.....	.....
Kentucky.....	60.9	70.1	66.9	58.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	84.5	77.9	64.8	54.3	61.2	62.2	61.8	50.1	.....	75.5	.....	.....	.....	.....
White.....	83.0	59.7	56.8	41.0	51.1	44.8	49.1	44.8	.....	54.1	.....	.....	.....	.....
Colored.....	87.3	111.3	79.6	73.8	79.6	94.2	84.9	60.0	.....	114.8	.....	.....	.....	.....
Maryland.....	.....	.....	.....	.....	.....	.....	.....	88.9	72.9	.....	.....	.....	.....	.....
White.....	.....	.....	.....	.....	.....	.....	.....	88.5	73.7	.....	.....	.....	.....	.....
Colored.....	.....	.....	.....	.....	.....	.....	.....	91.1	68.3	.....	.....	.....	.....	.....
Michigan.....	115.2	122.1	99.1	112.1	100.2	102.3	89.6	80.0	82.6	77.2	.....	.....	.....	.....
Minnesota.....	74.4	81.3	69.6	84.4	71.5	77.9	63.0	64.0	58.8	59.3	.....	.....	.....	.....
Mississippi.....	73.0	80.9	78.6	69.7	64.5	77.6	63.2	71.0	.....	58.5	.....	.....	.....	.....
White.....	64.8	78.6	79.4	77.2	59.8	66.2	58.4	55.2	.....	53.8	.....	.....	.....	.....
Colored.....	80.6	63.1	78.1	63.0	69.0	88.2	67.6	85.6	.....	62.8	.....	.....	.....	.....
Nebraska.....	86.1	101.2	95.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	90.3	107.5	98.9	97.4	90.1	85.1	67.2	75.5	67.8	70.3	.....	.....	.....	.....
New York <sup>1</sup> .....	113.2	158.2	138.5	126.8	115.6	120.8	95.1	95.3	84.2	92.0	93.6	93.6	130.2	.....
Pennsylvania.....	94.9	112.6	98.1	92.7	88.4	87.5	71.7	76.0	.....	.....	.....	.....	.....	.....
Rhode Island.....	159.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	78.6	43.5	59.3	60.2	55.3	53.5	50.1	45.2	51.9	68.6	.....	.....	.....	.....
Tennessee.....	59.3	60.4	59.8	55.9	69.6	59.3	53.2	52.7	.....	.....	.....	.....	.....	.....
White.....	49.4	55.9	55.1	45.8	53.4	51.6	47.1	47.1	.....	.....	.....	.....	.....	.....
Colored.....	101.8	82.2	82.5	105.2	148.6	96.7	82.5	79.7	.....	.....	.....	.....	.....	.....
Virginia.....	82.8	108.8	102.3	90.5	90.3	71.3	78.4	84.6	57.6	.....	.....	.....	.....	.....
White.....	56.9	93.5	82.6	72.7	73.1	57.5	63.4	74.6	41.1	.....	.....	.....	.....	.....
Colored.....	150.5	148.9	153.8	137.3	135.0	107.5	117.9	110.8	100.9	.....	.....	.....	.....	.....
DISEASES OF THE CIRCULATORY SYSTEM (87-96)														
Alabama (total).....	151.5	153.8	142.9	132.7	141.4	149.2	134.3	132.3	138.7	142.3	.....	.....	.....	.....
White.....	128.3	136.0	120.3	110.7	119.5	113.5	107.9	89.7	107.2	117.7	.....	.....	.....	.....
Colored.....	195.1	187.2	185.4	174.1	182.6	216.2	183.9	212.3	197.8	188.5	.....	.....	.....	.....
California.....	496.7	427.7	383.4	372.4	360.2	335.7	326.1	.....	.....	280.4	.....	.....	.....	.....
Iowa.....	329.8	313.8	287.2	268.2	282.6	271.6	.....	222.1	190.6	168.3	.....	.....	.....	.....
Kansas.....	277.2	232.3	216.7	198.3	198.9	198.9	.....	.....	.....	197.0	.....	.....	.....	.....
Kentucky.....	192.3	232.4	198.5	191.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	274.1	307.9	242.0	213.7	209.6	195.0	195.9	196.8	.....	186.6	.....	.....	.....	.....
White.....	230.3	270.4	194.7	179.0	164.8	148.3	154.2	149.2	.....	145.5	.....	.....	.....	.....
Colored.....	354.6	376.8	330.0	277.5	292.0	280.9	272.6	284.3	.....	262.1	.....	.....	.....	.....
Maryland.....	.....	.....	.....	.....	.....	.....	.....	239.7	140.4	233.9	.....	.....	.....	.....
White.....	.....	.....	.....	.....	.....	.....	.....	230.7	105.5	218.6	.....	.....	.....	.....
Colored.....	.....	.....	.....	.....	.....	.....	.....	262.5	231.5	314.4	.....	.....	.....	.....
Michigan.....	345.2	347.3	273.2	276.7	266.3	278.5	245.4	215.2	206.5	188.8	.....	.....	.....	.....
Minnesota.....	289.5	253.9	185.6	191.6	178.8	189.5	176.1	171.3	153.1	145.3	.....	.....	.....	.....
Nebraska.....	243.3	217.4	216.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	307.2	391.3	344.9	305.4	297.4	258.5	255.1	233.9	192.3	213.2	180.0	171.2	182.2	.....
New York <sup>1</sup> .....	384.7	545.9	441.9	385.3	369.9	341.2	297.2	301.3	305.2	276.5	298.2	245.5	292.3	.....
Pennsylvania.....	330.2	369.3	299.7	278.4	256.7	248.0	217.5	206.7	.....	.....	.....	.....	.....	.....
Rhode Island.....	.....	347.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	384.1	262.1	292.3	291.2	269.6	296.9	312.0	272.9	.....	305.1	295.5	.....	.....	.....
South Dakota.....	224.1	162.2	150.0	155.5	134.8	160.6	115.8	95.3	148.9	88.6	.....	.....	.....	.....
Tennessee.....	162.8	159.4	160.0	136.6	149.2	149.8	142.6	120.0	.....	.....	.....	.....	.....	.....
White.....	1.7.0	134.5	130.0	116.2	132.3	119.1	113.0	97.4	.....	.....	.....	.....	.....	.....
Colored.....	230.3	280.2	305.4	235.9	231.1	298.5	285.8	219.9	.....	.....	.....	.....	.....	.....
Virginia.....	204.4	242.8	217.7	218.6	164.4	185.2	174.3	149.1	140.4	.....	.....	.....	.....	.....
White.....	180.7	223.7	191.5	174.4	150.9	159.9	145.0	130.8	105.5	.....	.....	.....	.....	.....
Colored.....	266.3	262.7	278.3	334.1	200.0	251.4	251.2	196.8	231.5	.....	.....	.....	.....	.....

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928	1929								1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				
DISEASES OF THE HEART (87-96)													
Alabama (total).....	140.9	138.3	125.6	117.9	132.6	140.4	125.0	124.0	125.4	131.2	91.9	90.8	.....
White.....	115.6	124.7	108.6	103.0	110.8	105.1	96.9	98.9	98.9	104.4	74.3	67.8	.....
Colored.....	187.2	175.4	175.2	168.5	171.7	205.7	177.1	193.8	184.6	180.7	123.7	132.8	.....
California.....	442.4	372.4	338.2	329.2	317.0	299.0	286.0	286.0	286.0	243.0	.....	.....	.....
Connecticut.....	196.3	256.1	219.2	212.4	194.3	190.9	155.0	170.0	170.0	192.6	160.3	154.1	185.5
Georgia.....	114.0	96.9	95.9	107.5	106.9	141.7	118.5	117.7	102.9	121.5	130.4	127.8	.....
Hawaii Territory.....	106.0	114.7	141.9	138.5	132.5	141.7	118.5	92.1	102.0	168.1	104.6	132.3	144.6
Indiana.....	269.6	280.6	198.7	243.2	199.2	228.0	222.2	187.6	167.9	160.4	160.4	160.4	.....
Iowa.....	292.9	281.3	254.0	233.7	251.1	239.6	230.0	197.4	167.3	148.9	.....	.....	.....
Kansas.....	249.0	207.3	185.4	173.9	173.1	175.2	175.2	175.2	175.2	160.4	.....	.....	.....
Kentucky.....	169.3	194.6	158.3	160.0	160.0	160.0	160.0	160.0	160.0	172.7	.....	.....	.....
Louisiana.....	260.2	290.4	221.3	193.8	192.8	183.6	177.8	182.9	182.9	133.3	133.3	133.3	.....
White.....	219.1	252.7	178.6	160.4	150.8	137.1	137.8	138.9	138.9	244.9	.....	.....	.....
Colored.....	335.7	359.7	299.6	265.2	270.8	268.9	251.3	263.8	263.8	204.0	199.6	199.6	199.6
Maryland.....	.....	.....	.....	.....	.....	.....	.....	198.6	184.7	232.4	278.0	278.0	.....
White.....	.....	.....	.....	.....	.....	.....	.....	198.6	184.7	232.4	278.0	278.0	.....
Colored.....	.....	.....	.....	.....	.....	.....	.....	198.6	184.7	232.4	278.0	278.0	.....
Michigan.....	299.3	347.3	235.7	240.8	238.5	240.0	218.1	185.2	177.7	163.9	.....	.....	.....
Minnesota.....	231.4	266.9	150.5	147.5	100.1	152.7	136.8	140.6	121.5	126.5	.....	.....	.....
Mississippi.....	99.3	105.9	112.8	99.3	106.7	111.8	108.0	127.0	127.0	111.1	.....	.....	.....
White.....	95.1	104.8	114.5	102.0	95.5	95.1	84.1	91.0	91.0	82.7	.....	.....	.....
Colored.....	103.3	107.0	111.5	97.0	117.1	127.2	130.1	150.9	150.9	137.0	.....	.....	.....
Nebraska.....	223.3	194.8	196.3	227.6	276.1	236.0	226.7	214.8	173.5	198.6	.....	.....	.....
New Jersey.....	278.0	361.5	324.4	277.6	276.1	236.0	226.7	214.8	173.5	237.4	256.2	212.8	249.0
New York <sup>1</sup> .....	297.1	483.7	391.7	338.9	322.0	292.6	257.9	262.4	261.6	189.0	164.0	188.0	141.0
Pennsylvania.....	301.8	336.9	273.9	248.8	232.3	221.3	196.7	188.0	188.0	189.0	189.0	189.0	189.0
Rhode Island.....	304.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	204.0	153.9	129.6	138.8	115.8	142.2	102.0	76.9	117.1	85.3	.....	.....	.....
Tennessee.....	158.6	149.2	148.0	150.1	125.0	137.9	136.7	128.0	106.4	122.4	.....	.....	.....
White.....	133.4	126.1	121.5	121.5	92.7	122.6	108.5	97.7	83.5	83.5	.....	.....	.....
Colored.....	225.6	258.9	288.9	201.8	211.8	267.2	274.8	217.1	217.1	.....	.....	.....	.....
Virginia.....	188.8	220.4	193.4	202.6	149.3	171.0	156.4	129.5	121.6	121.6	121.6	121.6	121.6
White.....	188.1	202.9	171.4	160.5	134.5	145.4	129.3	121.3	89.1	89.1	.....	.....	.....
Colored.....	241.5	266.3	250.9	312.6	188.0	238.2	227.3	186.9	206.7	.....	.....	.....	.....

## DISEASES OF THE RESPIRATORY SYSTEM (97-107)

Alabama (total).....	141.4	287.8	123.1	125.4	102.6	84.7	61.0	37.1	40.7	42.1	.....	.....	.....
White.....	114.2	236.0	100.9	114.9	84.7	63.1	48.5	24.5	24.3	35.7	.....	.....	.....
Colored.....	192.5	383.7	165.0	145.1	136.2	125.3	84.5	60.7	62.7	54.1	.....	.....	.....
California.....	216.6	143.4	152.2	167.2	139.1	98.5	92.1	.....	.....	76.3	.....	.....	.....
Iowa.....	159.5	174.1	112.7	91.2	82.2	71.3	.....	43.2	35.4	24.7	.....	.....	.....
Kansas.....	185.4	105.2	135.0	141.2	86.2	50.0	.....	.....	.....	69.0	.....	.....	.....
Kentucky.....	152.7	311.8	197.6	134.2	229.2	80.5	65.2	51.8	51.3	56.2	.....	.....	.....
Louisiana.....	185.4	232.5	126.3	129.2	80.5	65.2	51.8	51.3	51.3	38.2	.....	.....	.....
White.....	145.5	185.6	87.8	97.9	51.1	42.0	49.1	26.0	26.0	38.2	.....	.....	.....
Colored.....	238.6	318.6	197.2	186.7	134.5	107.9	84.9	92.5	92.5	89.1	.....	.....	.....
Maryland.....	.....	.....	.....	.....	.....	.....	.....	66.1	63.2	.....	.....	.....	.....
White.....	.....	.....	.....	.....	.....	.....	.....	34.7	37.3	.....	.....	.....	.....
Colored.....	.....	.....	.....	.....	.....	.....	.....	168.6	136.7	.....	.....	.....	.....
Michigan.....	219.8	253.9	155.5	147.0	180.1	121.8	87.5	42.6	45.4	41.5	.....	.....	.....
Minnesota.....	153.1	163.9	74.8	83.1	74.2	71.8	49.2	35.0	32.9	26.4	.....	.....	.....
Nebraska.....	194.8	188.0	181.5	188.0	181.5	188.0	181.5	188.0	188.0	188.0	188.0	188.0	188.0
New Jersey.....	486.9	357.5	206.0	174.1	116.9	101.4	82.7	50.5	45.3	.....	.....	.....	.....
New York <sup>1</sup> .....	145.8	332.7	185.4	182.6	134.2	109.2	73.6	46.7	48.2	44.2	46.3	42.6	50.3
Pennsylvania.....	254.2	316.7	184.2	164.4	117.6	99.1	67.1	47.7	47.7	47.7	47.7	47.7	47.7
Rhode Island.....	363.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	145.1	162.2	98.1	92.0	81.2	75.3	44.9	46.8	55.2	56.9	.....	.....	.....
Tennessee.....	234.4	157.3	166.7	97.7	74.8	60.1	44.7	50.4	50.4	.....	.....	.....	.....
White.....	206.6	133.9	127.7	83.3	89.0	37.5	36.9	41.5	41.5	.....	.....	.....	.....
Colored.....	368.6	271.1	297.1	167.7	151.3	110.9	82.8	93.4	93.4	.....	.....	.....	.....
Virginia.....	113.9	145.6	132.6	119.8	79.9	71.8	41.6	35.2	38.4	30.5	30.5	30.5	30.5
White.....	111.9	98.7	97.3	61.4	53.7	30.7	31.0	30.5	30.5	30.5	30.5	30.5	30.5
Colored.....	231.6	221.6	178.6	128.2	119.1	70.1	46.2	60.5	60.5	.....	.....	.....	.....

<sup>1</sup> Exclusive of New York City.

*Monthly State mortality statistics—Continued*

State	1928	1929									1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.					
PNEUMONIA, ALL FORMS (100, 101)														
Alabama (total)-----	131.2	261.9	111.6	110.5	97.9	79.8	53.4	32.5	34.8	34.0	32.4	38.8	-----	-----
White-----	104.2	227.1	93.9	107.2	80.4	60.3	41.3	21.7	28.0	28.0	19.7	30.3	-----	-----
Colored-----	180.6	366.5	160.6	133.2	129.4	116.0	76.3	52.7	47.5	44.8	55.3	53.9	-----	-----
California-----	190.5	123.5	135.6	152.5	119.4	83.5	79.9	-----	-----	65.7	-----	-----	-----	-----
Connecticut-----	118.9	254.7	232.0	142.8	104.5	86.8	54.1	43.8	-----	34.3	40.8	34.7	33.9	-----
Georgia-----	185.6	97.3	77.6	70.3	46.7	52.4	34.2	24.3	-----	-----	-----	-----	-----	-----
Hawaii Territory-----	141.7	145.1	254.0	158.7	217.5	202.4	139.4	121.7	157.9	185.6	163.0	-----	-----	-----
Indiana-----	233.2	270.3	169.5	137.9	83.5	85.6	50.2	24.8	38.2	33.7	29.9	22.6	36.9	-----
Iowa-----	145.0	155.2	96.1	77.6	71.7	40.2	-----	36.4	26.7	18.9	-----	-----	-----	-----
Kansas-----	159.1	93.0	113.0	125.8	76.9	41.1	-----	-----	-----	56.5	-----	-----	-----	-----
Kentucky-----	132.4	285.9	180.3	116.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana-----	170.3	215.0	111.6	118.3	68.0	52.5	58.0	43.5	-----	46.5	-----	-----	-----	-----
White-----	108.8	80.5	88.6	41.4	31.7	45.3	24.2	-----	-----	31.7	-----	-----	-----	-----
Colored-----	299.7	168.8	173.0	116.8	90.8	81.4	78.8	73.6	-----	-----	-----	-----	-----	-----
Maryland-----	-----	-----	-----	-----	-----	-----	-----	46.6	45.2	-----	-----	-----	-----	-----
White-----	-----	-----	-----	-----	-----	-----	-----	27.8	31.2	-----	-----	-----	-----	-----
Colored-----	-----	-----	-----	-----	-----	-----	-----	145.8	118.5	-----	-----	-----	-----	-----
Michigan-----	190.3	224.7	136.5	125.2	114.2	105.7	73.4	33.6	33.9	21.3	-----	-----	-----	-----
Minnesota-----	147.5	156.2	71.4	72.2	68.4	65.3	39.8	28.1	29.4	22.9	-----	-----	-----	-----
Mississippi-----	142.0	191.4	107.0	110.4	63.2	38.8	26.5	15.1	-----	25.0	-----	-----	-----	-----
White-----	106.2	171.0	103.8	106.2	45.4	41.4	17.1	13.8	-----	16.5	-----	-----	-----	-----
Colored-----	175.0	201.3	110.1	114.6	76.8	36.5	35.0	16.4	-----	32.7	-----	-----	-----	-----
Nebraska-----	179.0	119.6	115.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey-----	160.5	326.9	187.3	153.8	99.4	91.2	51.6	44.1	37.0	36.4	18.2	19.5	22.2	-----
New York <sup>1</sup> -----	128.5	297.6	165.8	135.6	116.7	92.4	62.8	37.6	39.3	35.1	34.7	33.8	37.6	-----
North Carolina-----	151.9	185.2	177.5	132.0	113.5	81.0	-----	-----	-----	93.4	-----	-----	-----	-----
Pennsylvania-----	228.6	285.1	162.0	142.8	97.7	85.0	52.7	38.9	-----	45.3	45.1	54.1	44.5	-----
Rhode Island-----	317.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Carolina-----	164.2	140.2	125.2	130.1	90.7	77.1	62.0	37.9	-----	44.2	40.8	-----	-----	-----
South Dakota-----	117.1	142.2	77.8	85.3	62.2	68.6	34.6	36.8	46.8	43.5	-----	-----	-----	-----
Tennessee-----	122.4	215.1	146.4	140.7	86.6	66.4	39.4	33.9	41.4	39.5	34.6	-----	-----	-----
White-----	186.2	125.1	114.7	73.9	53.4	31.7	28.4	34.1	-----	-----	-----	-----	-----	-----
Colored-----	354.9	249.8	268.6	147.8	129.3	76.8	60.5	79.7	-----	-----	-----	-----	-----	-----
Virginia-----	98.3	131.2	120.5	104.7	68.0	60.4	36.9	26.5	28.8	-----	-----	-----	-----	-----
White-----	80.3	101.1	90.3	87.2	50.9	44.9	28.1	24.0	20.2	-----	-----	-----	-----	-----
Colored-----	145.5	210.1	199.6	150.5	112.8	100.9	59.8	33.1	51.3	-----	-----	-----	-----	-----
Wisconsin-----	164.3	161.9	120.5	88.9	84.5	78.9	49.0	30.0	29.9	-----	-----	-----	-----	-----

## DISEASES OF THE DIGESTIVE SYSTEM (108-127)

Alabama (total)-----	67.6	54.5	51.2	155.6	61.9	106.2	147.5	139.1	107.5	140.5	-----	-----	-----	-----
White-----	66.6	47.7	46.6	141.6	46.3	101.6	143.4	136.0	100.2	136.7	-----	-----	-----	-----
Colored-----	69.9	67.2	59.9	182.0	91.3	104.7	155.3	145.0	121.3	147.7	-----	-----	-----	-----
California-----	103.6	86.3	85.6	91.2	94.5	92.0	103.9	-----	-----	117.5	-----	-----	-----	-----
Hawaii Territory-----	145.1	227.7	186.8	209.2	198.7	182.2	174.3	180.9	157.9	185.6	134.0	-----	-----	-----
Iowa-----	62.6	52.9	58.0	73.7	66.6	62.1	-----	-----	68.9	62.1	77.6	-----	-----	-----
Kansas-----	80.2	67.4	63.9	73.1	84.2	62.9	-----	-----	-----	81.5	-----	-----	-----	-----
Kentucky-----	67.2	53.0	52.1	55.3	-----	-----	-----	-----	-----	-----	-----	-----	125.0	-----
Louisiana-----	80.3	70.0	78.2	80.9	78.6	112.3	128.5	122.6	-----	106.3	105.4	161.0	-----	-----
White-----	71.8	68.1	76.4	79.3	56.9	87.7	86.7	152.4	-----	-----	-----	-----	-----	-----
Colored-----	95.9	73.6	81.5	83.9	118.6	157.6	205.3	152.4	-----	96.2	142.8	-----	-----	-----
Maryland-----	-----	-----	-----	-----	-----	-----	-----	80.7	124.9	-----	-----	-----	-----	-----
White-----	-----	-----	-----	-----	-----	-----	-----	173.1	236.9	-----	-----	-----	-----	-----
Colored-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Michigan-----	90.8	84.4	92.2	82.8	80.6	90.5	89.0	78.2	95.7	95.7	-----	-----	-----	-----
Minnesota-----	58.4	56.7	59.3	62.3	63.5	67.9	59.0	64.5	64.0	50.2	-----	-----	-----	-----
Nebraska-----	60.2	72.8	81.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey-----	74.6	72.7	61.1	86.3	76.1	75.8	73.6	74.6	71.8	101.4	61.6	54.4	74.2	-----
New York <sup>1</sup> -----	73.0	70.9	71.9	74.2	69.9	71.5	62.0	64.7	79.0	79.8	78.4	96.9	118.8	-----
Pennsylvania-----	72.2	73.3	74.8	73.6	75.0	61.4	62.9	71.5	-----	-----	-----	-----	-----	-----
Rhode Island-----	88.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Dakota-----	87.0	46.8	72.2	68.6	58.8	78.6	44.9	58.5	80.3	46.8	-----	-----	-----	-----
Tennessee-----	44.2	60.4	66.8	70.0	71.1	110.9	171.8	133.2	-----	-----	-----	-----	-----	-----
White-----	36.3	47.1	60.7	55.1	63.0	142.1	160.7	127.2	-----	-----	-----	-----	-----	-----
Colored-----	79.8	124.9	96.3	142.1	110.0	104.4	225.4	162.2	-----	-----	-----	-----	-----	-----
Virginia-----	51.7	35.7	48.1	55.8	52.0	60.4	102.5	104.3	99.7	-----	-----	-----	-----	-----
White-----	39.8	30.3	38.5	46.1	47.7	36.7	73.8	87.9	87.8	-----	-----	-----	-----	-----
Colored-----	82.7	49.6	73.3	81.0	63.2	122.4	177.7	147.2	130.7	-----	-----	-----	-----	-----

<sup>1</sup> Exclusive of New York City.

## Monthly State mortality statistics—Continued

State	1928		1929								1928	1927	1926	1925
	Dec.		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.				

## DIARRHEA AND ENTERITIS UNDER 3 YEARS (113)

Alabama (total).....	13.3	8.9	5.8	7.0	12.4	40.8	64.8	62.7	33.4	65.2	33.2	64.3	37.7
White.....	13.9	2.8	10.5	5.8	28.5	65.9	67.9	30.8	68.7	35.0	67.3	—	—
Colored.....	13.2	6.6	10.2	1.3	24.8	44.8	61.7	54.1	38.2	58.0	30.3	59.2	—
California.....	18.9	9.6	9.2	8.8	11.3	17.6	23.0	—	—	29.4	—	—	—
Connecticut.....	3.6	5.0	15.9	5.7	5.2	11.5	8.2	—	—	3.6	12.0	14.3	15.4
Georgia.....	2.2	6.9	7.4	12.2	22.8	35.8	26.8	27.6	—	—	—	—	—
Indiana.....	5.2	8.2	6.6	11.9	5.7	7.4	10.8	26.6	47.1	50.4	36.3	71.6	73.0
Iowa.....	1.9	5.8	1.1	3.9	4.5	2.9	—	8.9	5.8	8.2	—	—	—
Kansas.....	8.3	7.7	5.7	12.2	7.8	4.5	—	—	—	—	6.4	—	—
Kentucky.....	12.5	8.3	8.2	8.3	—	—	—	—	—	—	—	—	—
Louisiana.....	3.0	13.9	19.4	26.0	22.4	34.4	49.3	34.4	—	—	43.5	—	—
White.....	12.1	17.5	23.3	15.4	21.4	27.0	28.9	—	—	—	31.7	—	—
Colored.....	8.6	17.1	22.7	30.8	35.4	58.2	90.8	44.5	—	—	65.1	—	—
Michigan.....	13.3	11.8	19.2	9.0	11.1	12.6	11.4	16.0	23.1	—	23.9	—	—
Minnesota.....	3.0	2.6	4.3	4.3	3.6	3.9	3.1	2.2	6.5	—	4.3	—	—
Mississippi.....	8.5	2.6	4.4	7.2	12.2	32.9	55.0	50.0	—	—	77.6	—	—
White.....	11.0	2.8	3.1	4.1	14.3	28.9	58.8	49.6	—	—	81.3	—	—
Colored.....	6.3	2.5	5.6	10.1	10.4	38.6	106.4	50.4	—	—	74.1	—	—
Nebraska.....	3.3	5.0	9.3	—	—	—	—	—	—	—	—	—	—
New Jersey.....	12.6	11.1	7.2	10.2	10.5	7.7	6.4	10.2	17.3	20.0	23.2	43.8	57.2
New York <sup>1</sup> .....	7.4	9.9	9.6	9.5	7.9	8.7	7.2	6.0	13.9	14.5	14.1	28.6	48.4
North Carolina.....	30.1	10.4	10.2	4.0	11.2	38.9	—	—	—	—	29.7	—	—
Pennsylvania.....	15.9	15.1	14.0	15.2	12.3	10.2	8.6	15.6	—	—	18.6	18.9	22.7
South Dakota.....	8.4	1.7	5.6	6.7	6.9	3.3	1.7	1.7	10.0	—	6.7	—	—
Tennessee.....	18.4	3.2	3.6	8.9	6.8	10.4	38.9	77.7	53.6	80.5	43.1	—	—
White.....	2.3	3.8	8.0	5.3	7.4	—	38.7	74.4	55.6	—	—	—	—
Colored.....	8.3	3.1	13.8	14.2	24.8	39.8	93.5	44.0	—	—	—	—	—
Virginia.....	7.3	3.7	5.6	5.5	3.3	12.3	37.3	50.3	37.0	—	—	—	—
White.....	4.4	3.2	4.2	4.4	3.3	6.3	18.9	41.7	32.9	—	—	—	—
Colored.....	14.9	5.0	9.2	8.3	3.4	28.1	85.5	72.8	48.0	—	—	—	—
Wisconsin.....	13.6	8.8	15.9	14.4	11.9	14.8	9.5	6.8	8.0	—	8.8	—	—

## NEPHRITIS (128, 129)

Alabama (total).....	98.8	85.1	85.6	95.2	91.7	104.3	96.9	95.2	92.9	93.8	—	—	—
White.....	91.8	72.2	76.0	78.5	78.7	80.6	71.0	84.1	79.2	60.3	—	—	—
Colored.....	112.1	109.4	103.6	126.6	114.4	149.0	145.8	116.0	118.7	156.9	—	—	—
California.....	142.7	119.4	123.5	106.5	128.2	106.7	100.7	—	—	105.2	—	—	—
Connecticut.....	61.3	81.1	100.9	67.4	68.2	116.2	54.9	46.6	—	67.8	—	—	—
Georgia.....	134.5	134.7	105.1	117.8	111.1	123.1	115.8	111.8	—	—	—	—	—
Indiana.....	96.4	81.6	85.4	100.1	95.0	92.7	74.3	73.8	63.8	77.1	78.5	—	—
Iowa.....	56.3	53.8	56.9	60.1	61.6	56.7	—	42.2	36.8	46.6	—	—	—
Kansas.....	122.0	104.9	104.4	98.8	94.8	93.0	—	—	—	94.3	—	—	—
Kentucky.....	86.7	104.2	84.8	68.7	—	—	—	—	—	—	—	—	—
Louisiana.....	138.9	116.5	131.7	111.1	112.3	115.9	120.4	99.0	—	120.2	—	—	—
White.....	111.9	109.1	115.6	87.6	84.8	79.3	90.6	82.1	—	94.2	—	—	—
Colored.....	188.4	130.2	161.2	154.1	162.8	183.3	175.2	130.2	—	167.9	—	—	—
Maryland.....	—	—	—	—	—	—	—	—	—	123.9	133.2	—	—
White.....	—	—	—	—	—	—	—	—	—	117.1	127.5	—	—
Colored.....	—	—	—	—	—	—	—	—	—	191.4	154.9	—	—
Michigan.....	82.3	82.1	75.4	74.9	73.4	67.4	72.6	59.8	62.6	68.2	—	—	—
Minnesota.....	71.4	71.8	56.2	56.7	54.1	49.7	48.7	42.4	39.4	45.9	—	—	—
Mississippi.....	117.7	102.6	115.0	98.8	112.1	70.3	117.5	108.6	—	101.9	—	—	—
White.....	102.0	89.6	97.7	86.9	89.6	101.2	74.1	84.1	—	81.3	—	—	—
Colored.....	132.2	114.6	131.1	127.2	128.5	123.7	147.0	127.2	—	120.6	—	—	—
Nebraska.....	57.7	60.2	64.8	—	—	—	—	—	—	—	—	—	—
New Jersey.....	118.9	137.7	125.5	110.6	104.4	102.6	101.3	85.7	78.0	84.7	81.0	79.0	84.1
New York <sup>1</sup> .....	118.6	137.5	129.1	122.2	124.1	111.0	103.4	91.0	99.3	94.1	99.8	95.2	98.5
Pennsylvania.....	125.6	143.3	112.5	109.8	102.3	105.8	88.6	83.9	—	93.3	88.8	93.5	96.9
Rhode Island.....	141.4	—	—	—	—	—	—	—	—	—	—	—	—
South Dakota.....	63.6	36.8	27.8	36.8	31.1	35.1	36.3	38.5	51.9	31.8	—	—	—
Tennessee.....	—	77.2	65.1	78.6	77.3	69.2	71.0	73.9	69.6	—	—	—	—
White.....	126.6	57.8	64.7	67.5	62.5	59.8	57.9	60.2	—	—	—	—	—
Colored.....	112.8	100.5	145.8	125.1	101.8	125.1	151.2	115.4	—	—	—	—	—
Virginia.....	112.0	104.7	107.8	109.8	88.8	74.1	91.7	97.4	88.2	—	—	—	—
White.....	105.5	92.3	99.4	99.9	79.7	67.0	81.0	88.5	72.7	—	—	—	—
Colored.....	129.0	137.3	130.0	134.0	116.2	92.6	119.6	128.8	129.0	—	—	—	—

<sup>1</sup> Exclusive of New York City.

*Monthly State mortality statistics—Continued*

State	1928		1929								1928	1927	1926	1925
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.					
Puerperal State (143-150)														
Alabama (total)-----	16.5	15.6	17.4	13.9	23.8	23.9	26.0	12.4	25.2	22.9	16.4	15.6	-----	-----
White.....	14.0	14.7	14.0	13.3	17.4	19.6	20.3	8.4	20.3	15.4	13.8	14.0	-----	-----
Colored.....	21.1	19.8	26.3	17.1	35.4	31.6	45.0	19.8	34.3	36.9	21.1	18.4	-----	-----
California-----	14.2	10.1	6.0	9.3	12.8	10.3	7.7	-----	-----	9.1	-----	-----	-----	-----
Connecticut (143-149)-----	8.8	6.5	16.7	10.0	4.4	5.0	12.6	8.6	-----	10.2	6.7	12.8	4.6	-----
Georgia-----	18.4	19.1	14.7	14.8	19.5	13.3	13.2	18.0	-----	-----	-----	-----	-----	-----
Indiana-----	8.9	16.7	9.9	15.9	10.7	12.2	15.3	10.2	11.9	11.1	9.3	11.3	8.7	-----
Iowa-----	9.7	14.1	9.7	13.1	10.5	8.2	-----	8.2	8.2	5.3	-----	-----	-----	-----
Kansas-----	13.5	10.3	10.7	14.8	10.6	11.5	-----	-----	-----	22.5	-----	-----	-----	-----
Kentucky-----	11.1	15.2	11.7	12.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana-----	24.2	24.2	11.4	22.9	25.6	21.1	16.8	21.7	-----	26.6	-----	-----	-----	-----
White.....	19.6	21.5	10.3	15.8	25.1	16.8	10.6	12.1	-----	18.6	-----	-----	-----	-----
Colored.....	32.5	29.1	13.3	36.0	26.5	29.1	28.3	39.4	-----	41.1	-----	-----	-----	-----
Maryland-----	-----	-----	-----	-----	-----	-----	-----	11.7	14.6	-----	-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	-----	-----	8.7	13.0	-----	-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	-----	-----	27.3	22.8	-----	-----	-----	-----	-----
Michigan-----	12.3	11.8	14.2	17.2	17.2	11.0	13.5	16.9	10.0	12.6	-----	-----	-----	-----
Minnesota-----	8.7	9.1	8.7	9.1	8.5	5.2	7.2	4.8	5.2	7.8	-----	-----	-----	-----
Nebraska-----	9.2	15.9	13.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey-----	8.0	10.2	8.9	10.2	10.5	10.2	8.9	9.2	10.8	12.0	-----	-----	-----	-----
New York <sup>1</sup> -----	10.1	11.0	11.4	12.4	4.1	11.2	8.5	8.3	6.8	9.7	11.1	8.1	11.1	-----
Rhode Island-----	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Dakota-----	10.2	13.4	14.8	13.4	15.6	6.7	6.9	13.4	11.7	10.0	-----	-----	-----	-----
Tennessee-----	-----	18.4	12.5	17.4	20.9	16.0	8.3	17.4	15.6	-----	-----	-----	-----	-----
White.....	17.0	8.2	15.3	20.0	13.6	8.8	15.3	13.1	-----	-----	-----	-----	-----	-----
Colored.....	24.8	33.5	27.5	25.5	27.5	5.7	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
Virginia-----	18.3	15.1	16.2	13.3	15.1	17.8	13.7	13.3	13.3	13.3	13.3	13.3	13.3	13.3
White.....	12.6	10.7	10.5	10.1	10.5	10.1	11.1	10.7	9.5	-----	-----	-----	-----	-----
Colored.....	33.1	26.5	31.1	21.5	27.3	38.0	20.5	19.9	23.2	-----	-----	-----	-----	-----

<sup>1</sup> Exclusive of New York City.

### COURT DECISION RELATING TO PUBLIC HEALTH

*Action of State board of health in refusing permit for tuberculosis hospital upheld.*—(New Jersey Supreme Court; Deborah Jewish Consumptive Relief Soc. v. State Board of Health, 147 A. 226; decided September 16, 1929.) The Deborah Jewish Consumptive Relief Society applied to the State board of health for a permit to locate in the borough of Hopatcong a hospital for the care of tuberculous persons. The land proposed to be used was ideally situated for the purpose, being several miles from any built-up section and protected from bitter winds. The buildings and sewage-disposal plant contemplated were to be of the latest and most approved design. However, many persons resorted to the borough during the summer, it being a vacation center, and the municipal authorities and many taxpayers protested against the establishment of a tuberculosis hospital because it would tend to bring tuberculosis to those seeking health and refreshment there. After a full hearing, the State board of health denied the application for a permit.

The statutes made provision for a hearing before the State board of health, and the said board was given "the sole authority to grant or refuse its consent and approval to the erection, construction, and establishing of any and all hospitals, sanatoria, preventoria, or other

institutions designed for the care, board, or treatment of any person or persons afflicted with the disease known as pulmonary tuberculosis." The society argued that the board, in passing upon permits, exercised a judicial function and that its action was required to be predicated upon the facts before it at the statutory hearing; that it could only receive and consider such evidence as would be considered in a court of law; and that a landowner had an inherent right to make such use of his land as did not constitute a nuisance. The supreme court sustained the board's denial of a permit, saying as follows:

It is perhaps a sufficient answer to the whole argument to say that the State board of health is created under the police power of the State to protect the health of the citizens of the State. There is nothing in the record to indicate that the action under review is capricious, or based upon improper motives. The course and communication of disease is not so certainly understood that this court would be justified in saying that the State board of health must grant a permit for the establishment of a tuberculosis sanitarium adjoining a summer vacation center. But the legislature has said that the State board of health shall have the "sole authority to grant or refuse a permit" for the establishment of such a sanitarium. If these words mean anything, they mean that, when there is any reason to justify the action of the board, no other tribunal shall have the power to change the result. There is reason in the record for the action of the State board, and it is immaterial that others may reach a different conclusion.

### DEATHS DURING WEEK ENDED NOVEMBER 16, 1929

*Summary of information received by telegraph from industrial insurance companies for the week ended November 16, 1929, and corresponding week of 1928. (From the Weekly Health Index, November 20, 1929, issued by the Bureau of the Census, Department of Commerce)*

	Week ended Nov. 16, 1929	Corresponding week, 1928
Policies in force.....	75,088,467	72,210,265
Number of death claims.....	12,992	12,618
Death claims per 1,000 policies in force, annual rate.....	9.0	9.1

*Deaths from all causes in certain large cities of the United States during the week ended November 16, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, November 20, 1929, issued by the Bureau of the Census, Department of Commerce)*

City	Week ended Nov. 16, 1929		Annual death rate per 1,000, corresponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Nov. 16, 1929 <sup>1</sup>
	Total deaths	Death rate <sup>1</sup>		Week ended Nov. 16, 1929	Corresponding week, 1928	
Total (65 cities)-----	6,562	11.5	12.4	587	665	51
Albany <sup>4</sup> -----	38	16.5	18.2	2	4	40
Atlanta-----	63	12.9	15.8	8	9	83
White-----	29			4	2	
Colored-----	34	(*)	(*)	4	7	
Baltimore <sup>4</sup> -----	203	12.8	14.4	14	25	45
White-----	151			11	14	44
Colored-----	52	(*)	(*)	3	11	48
Birmingham-----	64	15.0	14.1	5	7	45
White-----	26			2	4	30
Colored-----	38	(*)	(*)	3	3	69
Boston-----	194	12.7	15.0	29	17	80
Bridgeport-----	30			4	0	69
Buffalo-----	139	13.1	13.5	11	15	47
Cambridge-----	23	9.6	12.1	0	1	0
Camden-----	31	12.0	10.8	4	2	69
Canton-----	14	6.3	4.5	1	2	24
Chicago <sup>4</sup> -----	657	10.9	11.4	55	69	49
Cincinnati-----	117			6	11	35
Cleveland-----	162	8.4	9.4	18	18	53
Columbus-----	64	11.2	16.6	7	4	66
Dallas-----	50	12.0	11.5	8	8	
White-----	43			8	5	
Colored-----	7	(*)	(*)	0	3	
Dayton-----	40	11.3	15.6	3	8	48
Denver-----	71	12.6	16.9	3	18	29
Des Moines-----	30	10.3	10.7	2	2	36
Detroit-----	266	10.1	11.6	37	50	59
Duluth-----	21	9.4	10.7	3	0	72
El Paso-----	37	16.4	14.6	7	2	
Erie-----	25			4	4	82
Fall River <sup>4</sup> -----	29	11.3	11.3	3	1	56
Flint-----	25	8.8	8.4	2	3	24
Fort Worth-----	52	15.9	8.0	4	1	
White-----	43			4	1	
Colored-----	9	(*)	(*)	0	0	
Grand Rapids-----	48	15.3	11.1	5	2	76
Houston-----	54			4	5	
White-----	36			4	3	
Colored-----	18	(*)	(*)	0	2	
Indianapolis-----	101	13.8	15.2	3	6	24
White-----	78			2	5	19
Colored-----	23	(*)	(*)	1	1	60
Jersey City-----	58	9.3	11.1	6	8	46
Kansas City, Kans.-----	21	9.3	13.3	4	0	88
White-----	16			4	0	101
Colored-----	5	(*)	(*)	0	0	0
Kansas City, Mo.-----	86	11.5	10.0	6	3	51
Knoxville-----	25	12.4	13.4	4	4	131
White-----	18			5	4	122
Colored-----	7	(*)	(*)	1	0	211
Los Angeles-----	249			19	16	56
Louisville-----	66	10.5	14.9	4	7	32
White-----	52			3	6	28
Colored-----	14	(*)	(*)	1	1	63
Lowell-----	32			3	2	68
Lynn-----	15	7.4	9.9	0	4	0
Memphis-----	64	17.6	19.2	3	8	35
White-----	40			2	5	38
Colored-----	24	(*)	(*)	1	3	31
Milwaukee-----	92	8.8	10.6	14	16	61
Minneapolis-----	106	12.2	10.8	7	7	43
Nashville-----	44	16.5	19.5	6	7	97
White-----	28			5	7	109
Colored-----	16	(*)	(*)	1	0	63
New Bedford-----	25			1	3	21
New Haven-----	31	8.6	6.4	1	2	15

(Footnotes at end of table)

*Deaths from all causes in certain large cities of the United States during the week ended November 16, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued*

City	Week ended Nov. 16, 1929		Annual death rate per 1,000, corre- sponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Nov. 16, 1929 <sup>1</sup>
	Total deaths	Death rate <sup>2</sup>		Week ended Nov. 16, 1929	Corre- sponding week, 1928	
New Orleans.....	134	16.3	20.6	13	11	65
White.....	75			9	5	63
Colored.....	59	(*)	(*)	4	6	67
New York.....	1,332	11.6	11.7	106	121	43
Bronx Borough.....	157	8.6	8.7	14	14	41
Brooklyn Borough.....	468	10.6	9.5	47	39	48
Manhattan Borough.....	532	15.9	16.7	32	52	39
Queens Borough.....	137	8.4	9.1	10	10	61
Richmond Borough.....	38	13.2	19.1	3	6	54
Newark, N. J.....	90	9.9	9.3	7	2	37
Oakland.....	45	8.6	13.5	2	7	22
Oklahoma City.....	47			4	8	80
Omaha.....	48	11.3	10.6	4	4	47
Paterson.....	17	6.1	11.9	2	6	35
Philadelphia.....	431	10.9	13.1	39	49	55
Pittsburgh.....	169	13.1	12.2	14	27	48
Portland, Oreg.....	72			5	2	57
Providence.....	62	11.3	13.1	6	9	58
Richmond.....	66	17.8	11.0	5	4	70
White.....	38			3	3	64
Colored.....	28	(*)	(*)	2	1	82
Rochester.....	66	10.5	13.2	7	7	39
St. Louis.....	225	13.9	13.1	20	7	67
St. Paul.....	45			4	3	41
Salt Lake City.....	35	13.3	12.9	1	7	15
San Antonio.....	49	11.7	11.5	3	9	
San Diego.....	36			6	7	115
San Francisco.....	153	13.7	15.9	4	5	25
Schenectady.....	22	12.3	12.3	1	1	32
Seattle.....	85	11.6	10.4	6	3	64
Somerville.....	16	8.1	12.7	2	3	72
Spokane.....	29	13.9	16.8	2	1	52
Springfield, Mass.....	24	8.4	9.8	4	1	66
Syracuse.....	31	8.1	12.6	5	3	60
Tacoma.....	22	10.4	9.5	3	0	77
Toledo.....	77	12.9	13.9	9	4	84
Trenton.....	46	17.3	10.5	6	6	
Utica.....	24	12.0	13.5	1	2	109
Washington, D. C.....	126	11.9	15.1	14	9	32
White.....	76			6	5	51
Colored.....	50	(*)	(*)	8	4	152
Waterbury.....	15			1	2	25
Wilmington, Del.....	28	11.4	11.4	1	3	26
Worcester.....	32	8.5	10.6	3	0	38
Yonkers.....	26	11.2	6.5	2	3	47
Youngstown.....	22	6.6	11.7	4	4	57

<sup>1</sup> Annual rate per 1,000 population.<sup>2</sup> Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births<sup>3</sup> Data for 72 cities.<sup>4</sup> Deaths for week ended Friday.

<sup>5</sup> In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 21; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 26; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 16; Louisville, 17; Memphis, 88; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

# 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 November 16, 1929, and November 17, 1928

*Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 16, 1929, and November 17, 1928*

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928
<b>New England States:</b>								
Maine	4	9		2	13	66	0	1
New Hampshire	7	1	11	13	15	13	1	0
Vermont	5	2			4	75	0	0
Massachusetts	168	94	7	5	81	380	3	2
Rhode Island	15	22	1		3	58	0	0
Connecticut	28	25	6	2	2	115	0	0
<b>Middle Atlantic States:</b>								
New York	184	207	19	16	183	367	14	21
New Jersey	149	145	3	10	39	78	5	2
Pennsylvania	163	200			340	622	5	1
<b>East North Central States:</b>								
Ohio	94	117	14	18	116	206	5	5
Indiana	50	46		10	7	39	3	0
Illinois	253	226	14	28	180	116	4	9
Michigan	146	95	4	3	133	38	18	4
Wisconsin	29	20	5	51	308	73	3	6
<b>West North Central States:</b>								
Minnesota	33	23	2		38	22	1	0
Iowa	4	19			43		0	0
Missouri	85	84	2	4	16	76	7	1
North Dakota	3	8			26	6	2	0
South Dakota	5	4		1	6	1	0	1
Nebraska	30	46	2		47	2	0	0
Kansas	44	47			39	7	3	0
<b>South Atlantic States:</b>								
Delaware	2	1				1	0	0
Maryland	22	47	16	14	29	28	0	0
District of Columbia	11	73		1	1		0	0
Virginia						2		
West Virginia	42	43	11	4	17	25	0	1
North Carolina	204	188	6		2	31	2	0
South Carolina	48	102	782	1,008		3	0	0
Georgia	21	39	93	100	14	46	7	1
Florida	21	22	1		2		1	0
<b>East South Central States:</b>								
Kentucky	21	49					0	0
Tennessee	59	41	63	25	2		3	1
Alabama	63	109	47	152	20	24	4	0
Mississippi	64	32					0	1
<b>West South Central States:</b>								
Arkansas	18	19	21	102		1	2	2
Louisiana	65	25	14	42	3	29	0	0
Oklahoma	60	136	56	62	8	5	0	0
Texas	164	64	43	43	2	15	1	2
<b>Mountain States:</b>								
Montana	1	3		33	55	49	3	3
Idaho		1			51	5	1	0
Wyoming		7				1	0	0
Colorado	8	31			4	4	3	2
New Mexico	27	4		2			0	0
Arizona	41	10	8		2		9	1
Utah	1	2	3	25	25	2	5	0
<b>Pacific States:</b>								
Washington	13	17		3	22	26	1	4
Oregon	6	20	16	52	19	13	0	0
California	67	109	36	3,192	72	11	6	1

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

<sup>2</sup> Figures for 1929 are exclusive of Oklahoma City and Tulsa.

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

*Cases of certain communicable diseases reported by telegraph by State health officers  
for weeks ended November 16, 1929, and November 17, 1928—Continued*

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928	Week ended Nov. 16, 1929	Week ended Nov. 17, 1928
New England States:								
Maine.....	0	1	26	23	0	3	1	2
New Hampshire.....	0	0	39	24	0	0	1	0
Vermont.....	0	0	5	15	3	0	1	0
Massachusetts.....	8	0	213	182	0	0	5	12
Rhode Island.....	0	0	16	17	0	0	2	0
Connecticut.....	1	1	52	36	0	0	2	0
Middle Atlantic States:								
New York.....	9	9	296	276	44	2	22	32
New Jersey.....	0	0	126	74	0	0	7	14
Pennsylvania.....	1	3	273	252	1	0	33	35
East North Central States:								
Ohio.....	6	8	252	228	162	14	19	18
Indiana.....	0	0	104	101	162	7	5	7
Illinois.....	3	2	456	302	128	26	14	18
Michigan.....	4	3	237	237	64	26	8	8
Wisconsin.....	2	1	92	158	25	28	11	5
West North Central States:								
Minnesota.....	0	9	86	99	4	3	3	2
Iowa.....	1	2	43	69	33	14	23	0
Missouri.....	1	1	95	96	25	13	9	24
North Dakota.....	0	2	15	37	11	0	0	5
South Dakota.....	0	3	10	11	11	3	0	1
Nebraska.....	1	0	38	70	16	20	0	1
Kansas.....	0	1	71	0	52	24	6	8
South Atlantic States:								
Delaware.....	0	0	2	6	0	0	1	2
Maryland <sup>1</sup> .....	1	0	64	41	0	0	6	16
District of Columbia.....	0	2	19	11	0	0	3	2
Virginia.....	2							
West Virginia.....	1	4	74	70	8	3	18	20
North Carolina.....	3	1	145	148	4	5	8	8
South Carolina.....	2	1	28	19	0	3	20	15
Georgia.....	1	0	79	42	0	0	5	12
Florida.....	2	0	11	11	0	0	0	0
East South Central States:								
Kentucky.....	1	2	74	99	10	0	0	16
Tennessee.....	3	0	58	52	4	2	13	21
Alabama.....	2	0	68	53	203	3	6	19
Mississippi.....	0	0	30	23	0	1	3	10
West South Central States:								
Arkansas.....	0	0	25	32	2	0	7	14
Louisiana.....	0	0	23	28	0	5	11	15
Oklahoma <sup>1</sup> .....	0	0	55	69	7	26	23	33
Texas.....	0	1	32	38	6	10	7	6
Mountain States:								
Montana.....	0	2	27	52	16	31	8	1
Idaho.....	0	0	9	4	4	7	1	0
Wyoming.....	0	0	3	24	16	10	0	0
Colorado.....	0	0	18	20	14	2	5	2
New Mexico.....	1	0	12	11	2	0	8	0
Arizona.....	1	0	13	1	0	1	8	3
Utah <sup>1</sup> .....	0	0	5	13	0	13	2	1
Pacific States:								
Washington.....	2	8	38	49	42	18	10	4
Oregon.....	1	1	27	24	4	58	1	2
California.....	3	4	215	148	26	8	10	4

<sup>1</sup> Week ended Friday.<sup>1</sup> Figures for 1929 are exclusive of Oklahoma City and Tulsa.

## SUMMARY OF MONTHLY REPORTS FROM STATES

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

State	Menin- gooc- cus menin- gitis	Diph- theria	Influ- enza	Malaria	Measles	Pella- gra	Polio- myelitis	Scarlet fever	Small- pox	Ty- phoid fever
<i>September, 1929</i>										
Delaware.....		2	5		1		1	1	0	13
<i>October, 1929</i>										
Delaware.....		11	3		3		1	16	0	4
Iowa.....	3	53	1				26	221	100	16
Maryland.....	2	108	49	1	25	1	2	224	0	101
Massachusetts.....	9	436	16		204		32	631	0	37
Michigan.....	85	463	14	3	454		52	702	159	49
New Jersey.....	17	470	16				9	287	0	36
Ohio.....	18	407	68	1	576		40	831	187	152

<i>September, 1929</i>	Cases	Ophthalmia neonatorum:	Cases
Delaware:		Maryland.....	1
Chicken pox.....	1	Massachusetts.....	114
Undulant fever.....	1	New Jersey.....	2
Whooping cough.....	3	Ohio.....	71
<i>October, 1929</i>		Paratyphoid fever:	
Anthrax:		New Jersey.....	3
Massachusetts.....	1	Ohio.....	3
Chicken pox:		Puerperal fever:	
Delaware.....	52	Ohio.....	7
Maryland.....	128	Rabies in animals:	
Massachusetts.....	501	Maryland.....	2
Michigan.....	776	Rabies in man:	
New Jersey.....	449	Michigan.....	1
Ohio.....	1,150	Ohio.....	1
Diarrhea:		Septic sore throat:	
Maryland.....	29	Maryland.....	4
Diarrhea and enteritis (under 2 years):		Massachusetts.....	13
Ohio.....	63	Michigan.....	19
Dysentery:		Ohio.....	101
Maryland.....	23	Scabies:	
Michigan.....	1	Delaware.....	6
New Jersey.....	2	Maryland.....	2
Ohio.....	3	Tetanus:	
Food poisoning:		Maryland.....	2
Ohio.....	2	Massachusetts.....	3
German measles:		Ohio.....	2
Maryland.....	8	Trachoma:	
Massachusetts.....	22	Massachusetts.....	6
New Jersey.....	17	New Jersey.....	2
Ohio.....	9	Ohio.....	7
Impetigo contagiosa:		Tuberculosis:	
Maryland.....	28	Ohio.....	1
Lead poisoning:		Undulant fever:	
Massachusetts.....	12	Delaware.....	1
New Jersey.....	9	Iowa.....	15
Ohio.....	17	Ohio.....	8
Lethargic encephalitis:		Vincent's angina:	
Maryland.....	2	Maryland.....	11
Massachusetts.....	5	Whooping cough:	
Michigan.....	2	Delaware.....	24
Ohio.....	4	Maryland.....	222
Mumps:		Massachusetts.....	462
Maryland.....	28	Michigan.....	350
Massachusetts.....	222	New Jersey.....	447
Michigan.....	181	Ohio.....	565
Ohio.....	162		

**ADMISSIONS TO HOSPITALS FOR THE INSANE, APRIL, 1929**

Reports for the month of April, 1929, showing new admissions to hospitals for the care and treatment of the insane, have been received by the Public Health Service from 98 hospitals located in 34 States, the District of Columbia, and the Territory of Hawaii.

The 98 hospitals had 79,064 male and 70,567 female patients on April, 1929, the ratio being 112 males per 100 females.

The following table shows the new admissions for the month of April, 1929, by psychoses:

Psychoses	Number of first admissions		
	Male	Female	Total
1. Traumatic psychoses.....	24	9	33
2. Senile psychoses.....	106	102	208
3. Psychoses with cerebral arteriosclerosis.....	186	92	278
4. General paralysis.....	169	35	204
5. Psychoses with cerebral syphilis.....	25	8	33
6. Psychoses with Huntington's chorea.....	4	3	7
7. Psychoses with brain tumor.....	1	0	1
8. Psychoses with other brain or nervous disease.....	27	9	36
9. Alcoholic psychoses.....	101	5	106
10. Psychoses due to drugs and other exogenous toxins.....	12	8	20
11. Psychoses with pellagra.....	5	20	25
12. Psychoses with other somatic diseases.....	40	39	79
13. Manic-depressive psychoses.....	154	196	350
14. Involution melancholia.....	21	41	63
15. Dementia praecox (schizophrenia).....	233	208	461
16. Paranoia and paranoid conditions.....	23	26	49
17. Epileptic psychoses.....	50	41	91
18. Psychoneuroses and neuroses.....	24	26	50
19. Psychoses with psychopathic personality.....	17	8	25
20. Psychoses with mental deficiency.....	59	31	90
21. Undiagnosed psychoses.....	77	85	162
22. Without psychosis.....	113	35	148
Total.....	1,491	1,027	2,518

Fifty-nine and two-tenths per cent of the new admissions were males and 40.8 per cent females, giving a ratio of 145 males per 100 females.

Of the 149,631 patients, 7,679 male and 6,270 females were on parole at the end of the month—9.7 per cent of the male patients, 8.9 per cent of the females, and 9.3 per cent of the total patients being on parole or otherwise absent but still on the books.

Cases of dementia praecox constituted 18.3 per cent of the first admissions; manic-depressive psychoses, 13.9 per cent; psychoses with cerebral arteriosclerosis, 11 per cent; senile psychoses, 8.3 per cent; general paralysis, 8.1 per cent; undiagnosed psychoses, 6.4 per cent, and 5.9 per cent were "without psychosis."

**GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES**

The 97 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,535,000. The estimated population of the 90 cities reporting deaths is more than 29,965,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

*Weeks ended November 9, 1929, and November 10, 1928*

		1929	1928	Estimated expectancy
<i>Cases reported</i>				
Diphtheria:				
46 States	2,273	2,475		
97 cities	948	919		1,204
Measles:				
46 States	1,783	1,726		
97 cities	266	441		
Meningococcus meningitis:				
45 States	90	50		
97 cities	57	39		
Poliomyelitis:				
46 States	46	107		
Scarlet fever:				
46 States	3,452	3,201		
97 cities	1,156	977		931
Smallpox:				
46 States	673	275		
97 cities	53	22		22
Typhoid fever:				
46 States	453	495		
97 cities	54	57		70
<i>Deaths reported</i>				
Influenza and pneumonia:				
90 cities	653	605		
Smallpox:				
90 cities	0	0		

*City reports for week ended November 9, 1929*

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

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1920 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Population, July 1, 1929, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>NEW ENGLAND</b>									
Maine:									
Portland	78,600	8	2	0		0	1	1	0
New Hampshire:									
Concord	(1)	0	0	0		0	0	0	1
Manchester	35,700	0	2	0		0	0	0	4
Nashua	(1)	0	1	0		0	0	0	1
Vermont:									
Barre	(1)	0	0	0		0	0	0	0
Massachusetts:									
Boston	709,200	67	39	29	1	1	5	52	27
Fall River	134,300	6	4	2		0	0	0	3
Springfield	149,800	38	4	3		0	2	0	2
Worcester	107,600	29	6	4		0	1	0	3
Rhode Island:									
Pawtucket	73,100	2	1	1		0	0	0	1
Providence	286,300	5	11	12		1	0	0	8
Connecticut:									
Bridgeport	(1)	4	8	1		0	0	0	1
Hartford	172,300	8	6	0		0	0	1	3
New Haven	187,900	6	2	1		0	0	2	4

<sup>1</sup> No estimate of population made.

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chick-en pox, cases re-por-ted	Diphtheria		Influenza		Meas-les, cases re-por-ted	Mump-s, cases re-por-ted	Pneu-monia, deaths re-por-ted
			Cases, esti-mated expec-tancy	Cases re-por-ted	Cases re-por-ted	Deaths re-por-ted			
<b>MIDDLE ATLANTIC</b>									
New York:									
Buffalo	555,800	37	16	24	10	0	3	3	20
New York	6,017,500	75	168	78	10	10	10	33	138
Rochester	328,200	7	6	2	0	0	2	1	1
Syracuse	199,300	16	8	0	0	0	0	58	3
New Jersey:									
Camden	135,400	11	9	5	2	0	0	0	2
Newark	473,600	40	15	33	2	0	0	12	3
Trenton	139,000	4	3	0	0	0	1	0	5
Pennsylvania:									
Philadelphia	2,064,200	84	71	31	6	5	7	20	44
Pittsburgh	673,800	57	35	40	1	2	17	3	20
Reading	115,400	16	3	2	0	0	1	1	3
<b>EAST NORTH CENTRAL</b>									
Ohio:									
Cincinnati	413,700	13	16	10	5	0	0	0	6
Cleveland	1,010,300	112	57	19	0	1	5	10	14
Columbus	299,000	35	14	0	0	0	0	0	2
Toledo	313,200	113	16	5	0	0	90	4	2
Indiana:									
Fort Wayne	105,300	3	4	0	0	0	0	0	0
Indianapolis	382,100	38	14	5	0	1	3	0	15
South Bend	86,100	9	3	2	0	0	1	0	0
Terre Haute	73,500	0	3	0	0	0	0	0	0
Illinois:									
Chicago	3,157,400	137	105	176	6	8	15	13	54
Springfield	67,200	8	2	0	1	0	0	0	1
Michigan:									
Detroit	1,378,900	97	71	83	2	1	45	30	18
Flint	148,800	18	10	2	0	0	0	0	1
Grand Rapids	164,200	11	5	0	0	0	1	0	4
Wisconsin:									
Kenosha	56,500	10	3	0	0	0	0	0	0
Madison	50,500	7	2	0	0	0	4	7	0
Milwaukee	544,200	123	26	7	1	1	1	5	5
Racine	74,400	8	3	0	0	0	0	0	0
Superior	(?)	0	1	1	0	0	35	0	3
<b>WEST NORTH CENTRAL</b>									
Minnesota:									
Duluth	116,800	13	1	0	0	0	1	0	3
Minneapolis	455,900	113	34	13	0	0	38	16	11
St. Paul	(?)	23	12	5	0	0	0	18	5
Iowa:									
Davenport	(?)	0	2	0	0	0	1	0	0
Des Moines	151,900	0	4	1	0	0	0	0	0
Sioux City	80,000	8	3	1	0	0	0	2	0
Waterloo	37,100	33	0	0	0	0	5	2	0
Missouri:									
Kansas City	391,000	29	11	6	0	1	1	0	9
St. Joseph	78,500	2	2	2	0	0	0	0	0
St. Louis	848,100	6	49	42	0	0	1	4	0
North Dakota:									
Fargo	(?)	0	0	0	0	0	0	0	0
Grand Forks	(?)	14	0	0	0	0	0	0	0
South Dakota:									
Aberdeen	(?)	11	0	0	0	0	0	3	0
Sioux Falls	(?)	0	0	0	0	0	0	0	0
Nebraska:									
Omaha	222,800	19	12	26	0	0	2	0	4
Kansas:									
Topeka	62,800	11	3	1	2	0	0	2	4
Wichita	99,300	13	4	7	0	0	1	0	0

<sup>1</sup> No estimate of population made.

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Population, July 1, 1929, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>SOUTH ATLANTIC</b>									
Delaware:									
Wilmington.....	128,500	2	3	1	-----	0	0	0	6
Maryland:									
Baltimore.....	830,400	44	31	8	4	0	2	8	27
Cumberland.....	(1)	0	1	0	-----	0	0	0	0
Frederick.....	(1)	0	1	0	-----	0	0	0	1
District of Columbia:									
Washington.....	552,000	6	23	9	-----	0	1	0	12
Virginia:									
Lynchburg.....	38,600	15	5	2	-----	0	0	3	1
Norfolk.....	184,200	1	3	5	-----	0	0	0	4
Richmond.....	194,400	2	24	14	-----	0	0	0	5
Roanoke.....	64,500	0	8	4	-----	0	0	0	2
West Virginia:									
Charleston.....	55,200	15	3	5	-----	0	0	0	1
Wheeling.....	(1)	4	3	0	-----	0	1	0	1
North Carolina:									
Raleigh.....	(1)	1	3	4	-----	0	0	0	0
Wilmington.....	39,100	1	1	4	-----	0	0	0	1
South Carolina:									
Charleston.....	75,900	0	2	0	13	0	0	2	2
Columbia.....	56,600	2	2	1	-----	0	0	0	1
Georgia:									
Atlanta.....	256,100	0	10	5	46	1	1	1	6
Brunswick.....	(1)	0	0	0	-----	0	0	0	0
Savannah.....	99,900	2	3	3	2	0	0	0	1
Florida:									
Miami.....	156,700	0	1	9	-----	0	0	1	2
St. Petersburg.....	53,300	0	0	0	-----	0	0	0	0
Tampa.....	112,400	2	3	2	-----	1	0	2	3
<b>EAST SOUTH CENTRAL</b>									
Kentucky:									
Covington.....	59,000	4	2	2	-----	0	0	0	0
Tennessee:									
Memphis.....	190,200	1	11	9	-----	4	0	0	3
Nashville.....	139,600	2	6	1	-----	0	0	0	2
Alabama:									
Birmingham.....	222,400	0	8	14	3	1	1	0	6
Mobile.....	69,600	0	2	3	1	0	0	0	1
Montgomery.....	63,100	0	3	3	1	-----	0	0	0
<b>WEST SOUTH CENTRAL</b>									
Arkansas:									
Fort Smith.....	(1)	0	2	1	-----	0	0	0	0
Little Rock.....	79,200	2	3	2	-----	0	0	0	1
Louisiana:									
New Orleans.....	429,400	0	13	15	2	3	0	0	11
Shreveport.....	81,300	2	2	1	-----	0	0	1	3
Oklahoma:									
Tulsa.....	170,500	11	6	12	-----	1	1	1	-----
Texas:									
Dallas.....	217,800	3	17	54	-----	0	0	0	3
Fort Worth.....	170,600	3	6	19	-----	1	0	0	3
Galveston.....	50,600	0	0	1	-----	0	0	0	0
Houston.....	(1)	1	7	38	-----	0	1	0	7
San Antonio.....	218,100	2	4	14	-----	0	0	0	7
<b>MOUNTAIN</b>									
Montana:									
Billings.....	(1)	1	0	0	-----	0	1	12	0
Great Falls.....	(1)	10	0	0	-----	0	3	6	1
Helena.....	(1)	0	0	0	-----	0	0	3	1
Missoula.....	(1)	1	0	0	-----	0	0	0	1
Idaho:									
Boise.....	(1)	5	0	0	1	0	0	1	1

1 No estimate of population made.

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>MOUNTAIN—continued</b>									
Colorado:									
Denver.....	294,200	46	17	5	1	0	1	7	7
Pueblo.....	44,200	4	4	0	0	0	1	0	1
New Mexico:									
Albuquerque.....	(1)	1	0	0	0	0	0	0	0
Utah:									
Salt Lake City.....	138,000	22	4	2	0	0	1	13	8
Nevada:									
Reno.....	(1)	0	0	0	0	0	0	0	0
<b>PACIFIC</b>									
Washington:									
Seattle.....	383,200	39	6	0	0	0	1	18	-----
Spokane.....	109,100	12	3	0	2	0	0	6	-----
Tacoma.....	110,500	34	3	1	0	1	1	0	2
Oregon:									
Portland.....	(1)	47	11	2	2	1	4	5	8
Salem.....	(1)	4	0	0	0	0	0	4	0
California:									
Los Angeles.....	(1)	33	49	22	30	4	3	20	13
Sacramento.....	75,700	5	3	1	0	0	0	15	4
San Francisco.....	585,300	44	18	16	3	1	42	342	-----

Division, State, and city	Scarlet fever		Smallpox			Tuber-cu-losis, deaths reported	Typhoid fever			Whoop-ing cough, cases reported	Deaths, all causes
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported		Cases, estimated expectancy	Cases reported	Deaths reported		
<b>NEW ENGLAND</b>											
Maine:											
Portland.....	1	9	0	0	0	0	1	0	0	0	22
New Hampshire:											
Concord.....	1	0	0	0	0	0	0	0	0	0	7
Manchester.....	1	0	0	0	0	0	0	0	0	0	17
Nashua.....	0	0	0	0	0	0	0	0	0	0	9
Vermont:											
Barre.....	0	0	0	1	0	0	0	0	0	0	1
Massachusetts:											
Boston.....	40	70	0	0	0	15	2	0	0	27	202
Fall River.....	3	1	0	0	0	0	0	0	0	0	26
Springfield.....	6	5	0	0	0	0	0	0	0	0	30
Worcester.....	9	6	0	0	0	1	0	1	0	4	57
Rhode Island:											
Pawtucket.....	0	1	0	0	0	1	0	0	0	1	22
Providence.....	7	16	0	0	0	3	0	1	0	10	61
Connecticut:											
Bridgeport.....	7	4	0	0	0	2	0	0	0	2	23
Hartford.....	5	9	0	0	0	1	0	0	0	1	30
New Haven.....	5	2	0	0	0	2	0	3	0	7	47
<b>MIDDLE ATLANTIC</b>											
New York:											
Buffalo.....	17	33	0	0	0	5	6	0	0	7	131
New York.....	101	67	0	0	0	91	18	10	3	45	1,310
Rochester.....	5	4	0	1	0	0	1	0	0	6	60
Syracuse.....	7	2	0	0	0	1	0	1	0	19	32
New Jersey:											
Camden.....	6	3	0	0	0	0	0	1	0	0	32
Newark.....	12	8	0	0	0	9	0	0	0	52	94
Trenton.....	2	8	0	0	0	2	1	1	1	2	40
Pennsylvania:											
Philadelphia.....	58	60	0	0	0	24	5	1	1	34	491
Pittsburgh.....	39	26	0	0	0	11	1	2	1	16	204
Reading.....	2	0	0	0	0	0	0	0	0	4	34

\* No estimate of population made.

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
<b>EAST NORTH CENTRAL</b>											
Ohio:											
Cincinnati	13	21	0	1	0	10	0	4	0	3	135
Cleveland	26	41	0	0	0	5	1	0	0	48	207
Columbus	9	4	0	0	0	6	0	0	0	7	65
Toledo	10	12	0	0	0	2	1	0	0	12	59
Indiana:											
Fort Wayne	2	0	0	16	0	0	0	1	1	0	28
Indianapolis	13	14	2	1	0	2	0	0	0	6	94
South Bend	4	5	0	0	0	0	0	0	0	0	15
Terre Haute	4	0	1	0	0	2	0	0	0	0	39
Illinois:											
Chicago	88	247	1	0	0	44	5	1	0	74	676
Springfield	3	0	0	0	0	4	0	0	0	4	28
Michigan:											
Detroit	67	83	1	1	0	31	2	2	1	27	283
Flint	11	8	0	5	0	2	0	0	0	1	25
Grand Rapids	9	7	0	0	0	1	0	0	0	5	34
Wisconsin:											
Kenosha	1	1	0	0	0	0	0	0	0	7	5
Madison	1	0	0	0	0	0	0	0	0	10	-----
Milwaukee	18	22	1	0	0	6	0	0	0	40	112
Racine	4	8	0	0	0	0	1	0	0	8	9
Superior	2	1	0	0	0	0	0	0	0	0	10
<b>WEST NORTH CENTRAL</b>											
Minnesota:											
Duluth	9	5	0	0	0	0	0	0	0	10	25
Minneapolis	44	10	0	0	0	1	1	0	0	10	92
St. Paul	19	17	2	0	0	1	1	1	0	8	58
Iowa:											
Davenport	0	0	0	2	-----	-----	0	0	0	0	-----
Des Moines	11	11	1	3	-----	-----	0	0	0	0	20
Sioux City	3	0	0	0	-----	-----	0	0	0	2	-----
Waterloo	2	1	0	8	-----	-----	0	0	0	2	-----
Missouri:											
Kansas City	12	23	0	1	0	7	1	0	1	11	94
St. Joseph	3	2	0	3	0	1	0	0	0	1	23
St. Louis	34	19	0	0	0	12	3	5	0	9	181
North Dakota:											
Fargo	2	0	0	5	-----	-----	0	0	0	0	-----
Grand Forks	1	0	0	0	-----	-----	0	0	0	0	-----
South Dakota:											
Aberdeen	0	0	0	0	-----	-----	0	0	0	1	-----
Sioux Falls	3	0	0	0	-----	-----	0	0	0	0	9
Nebraska:											
Omaha	5	2	1	3	0	1	1	0	0	1	44
Kansas:											
Topeka	4	8	1	0	0	0	0	0	0	3	13
Wichita	6	4	0	0	0	2	1	0	0	0	35
<b>SOUTH ATLANTIC</b>											
Delaware:											
Wilmington	4	0	0	0	0	0	0	0	0	3	27
Maryland:											
Baltimore	16	32	0	0	0	14	3	2	0	24	188
Cumberland	1	0	0	0	0	0	0	0	0	0	8
Frederick	0	0	0	0	0	0	0	0	0	4	2
District of Columbia:											
Washington	17	12	0	0	0	10	2	1	1	8	135
Virginia:											
Lynchburg	1	0	0	0	0	0	0	0	0	31	8
Norfolk	3	5	0	0	0	2	0	0	0	1	-----
Richmond	9	8	0	0	0	6	0	2	0	0	58
Roanoke	3	3	0	0	0	1	0	0	0	0	21
West Virginia:											
Charleston	2	3	0	0	0	0	0	0	0	7	15
Wheeling	2	0	0	0	0	0	0	0	0	1	9
North Carolina:											
Raleigh	2	1	0	0	0	2	0	0	0	0	8
Wilmington	1	2	1	0	0	0	0	0	0	0	17
Winston-Salem	5	2	0	0	0	3	0	0	1	2	1

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
SOUTH ATLANTIC—continued											
South Carolina:											
Charleston	1	2	0	0	0	1	1	0	0	0	22
Columbia	2	0	0	0	0	2	0	0	0	0	26
Georgia:											
Atlanta	7	18	1	0	0	3	0	1	0	0	77
Brunswick	0	0	0	0	0	1	0	0	0	0	5
Savannah	1	5	0	0	0	1	0	1	0	0	23
Florida:											
Miami	1	0	0	0	0	0	0	1	0	1	21
St. Petersburg	0	0	0	0	0	1	0	0	0	0	6
Tampa	1	1	0	0	0	1	0	0	0	2	24
EAST SOUTH CENTRAL											
Kentucky:											
Covington	3	1	0	0	0	2	0	0	1	0	24
Tennessee:											
Memphis	6	5	0	0	0	4	2	2	0	2	54
Nashville	4	2	0	0	0	3	2	1	2	0	55
Alabama:											
Birmingham	4	15	0	0	0	7	6	0	1	0	80
Mobile	1	1	0	0	0	0	0	0	0	0	24
Montgomery	0	2	0	0	0	0	0	0	0	0	0
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith	0	10	0	0	0	1	0	0	0	0	0
Little Rock	2	1	0	1	0	0	0	0	1	0	0
Louisiana:											
New Orleans	6	11	0	0	0	22	2	2	1	0	149
Shreveport	2	7	0	0	0	0	1	0	0	0	22
Oklahoma:											
Tulsa	2	7	0	0	0	0	0	0	0	6	0
Texas:											
Dallas	7	5	0	0	0	0	2	1	0	0	51
Fort Worth	2	7	0	0	0	1	0	3	0	0	37
Galveston	0	0	0	1	0	1	0	0	0	0	12
Houston	3	5	0	0	0	5	0	0	0	0	69
San Antonio	2	1	0	0	0	6	1	0	0	0	74
MOUNTAIN											
Montana:											
Billings	0	2	0	0	0	0	0	0	0	0	6
Great Falls	1	16	1	0	0	1	0	0	0	0	7
Helena	0	0	0	0	0	1	0	1	2	0	13
Missoula	1	2	0	1	0	0	0	0	0	0	5
Idaho:											
Boise	0	1	0	0	0	1	0	0	0	0	3
Colorado:											
Denver	9	11	0	1	0	3	0	1	1	10	70
Pueblo	1	0	0	0	0	0	1	0	0	0	6
New Mexico:											
Albuquerque	1	1	0	0	0	3	0	0	0	0	4
Utah:											
Salt Lake City	2	7	1	0	0	2	1	0	0	0	36
Nevada:											
Reno	1	2	0	0	0	0	0	0	0	0	4
PACIFIC											
Washington:											
Seattle	8	11	2	2	0	1	1	0	0	0	0
Spokane	8	4	2	4	0	1	0	1	0	1	1
Tacoma	2	2	2	0	0	0	0	0	0	4	24
Oregon:											
Portland	9	4	4	3	0	4	1	0	0	1	88
Salem	1	0	0	0	0	0	0	0	0	1	0
California:											
Los Angeles	20	29	2	0	0	26	2	0	1	0	271
Sacramento	3	7	0	0	0	0	0	0	0	1	28
San Francisco	13	20	0	2	0	15	1	1	0	6	146

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
<b>NEW ENGLAND</b>									
Maine:									
Portland-----	0	1	1	0	0	0	0	0	0
Massachusetts:									
Boston-----	0	0	0	0	0	0	2	1	1
Connecticut:									
Hartford-----	1	0	0	0	0	0	0	0	0
<b>MIDDLE ATLANTIC</b>									
New York:									
Buffalo-----	0	1	0	0	0	0	0	0	0
New York-----	7	4	4	3	0	0	8	0	0
Rochester-----	0	0	0	0	0	0	0	3	1
New Jersey:									
Newark-----	1	0	0	0	0	0	0	1	0
Trenton-----	1	0	0	0	0	0	0	0	0
Pennsylvania:									
Philadelphia-----	4	2	1	0	0	0	0	1	0
Pittsburgh-----	2	2	0	0	0	0	0	0	0
<b>EAST NORTH CENTRAL</b>									
Ohio:									
Cincinnati-----	0	0	0	0	0	0	0	2	0
Cleveland-----	3	2	0	0	0	0	1	0	0
Columbus-----	2	2	0	0	0	0	0	0	0
Toledo-----	0	1	0	0	0	0	0	0	0
Indiana:									
Indianapolis-----	0	2	0	0	0	0	0	0	0
Illinois:									
Chicago-----	3	1	1	0	0	0	1	1	1
Michigan:									
Detroit-----	10	8	0	1	0	0	0	2	1
Wisconsin:									
Milwaukee-----	1	0	0	0	0	0	0	0	0
<b>WEST NORTH CENTRAL</b>									
Minnesota:									
Minneapolis-----	0	0	0	0	0	0	0	1	0
Iowa:									
Des Moines-----	0	0	0	0	0	0	0	4	0
Sioux City-----	0	0	0	0	0	0	0	1	0
Missouri:									
St. Joseph-----	0	1	0	0	0	0	0	0	0
St. Louis-----	5	1	0	0	0	0	1	0	0
Nebraska:									
Omaha-----	1	0	0	0	0	0	0	0	0
<b>SOUTH ATLANTIC</b>									
Maryland:									
Baltimore-----	1	0	1	1	0	0	1	1	0
District of Columbia:									
Washington-----	2	0	0	0	0	0	0	0	0
Virginia:									
Richmond-----	0	0	0	0	0	1	0	1	0
North Carolina:									
Raleigh-----	0	0	0	0	2	0	0	0	0
Winston-Salem-----	0	0	0	0	1	0	0	0	0
South Carolina:									
Charleston-----	0	0	0	0	4	0	0	0	0
Columbia-----	1	0	0	0	0	1	0	0	0
Georgia:									
Atlanta-----	5	1	0	0	2	1	0	0	0
Savannah-----	1	1	0	0	1	1	0	0	0
Florida: <sup>1</sup>									
Tampa-----	0	0	0	0	1	0	1	0	0

<sup>1</sup> Typhus fever, 2 cases: 1 case at Savannah, Ga., and 1 case at Miami, Fla.

## City reports for week ended November 9, 1929—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
<b>EAST SOUTH CENTRAL</b>									
Kentucky:									
Covington-----	0	0	0	0	0	0	0	1	0
Alabama:									
Birmingham-----	0	1	1	0	2	0	0	0	0
<b>WEST SOUTH CENTRAL</b>									
Louisiana:									
New Orleans-----	0	0	0	0	1	0	0	0	0
Shreveport-----	0	0	0	1	0	0	0	0	0
Texas:									
Dallas-----	1	1	0	0	2	1	0	0	0
Fort Worth-----	0	0	0	0	0	2	0	0	0
Houston-----	0	0	0	0	0	1	0	0	0
<b>MOUNTAIN</b>									
Colorado:									
Pueblo-----	1	0	0	0	0	0	0	0	0
Utah:									
Salt Lake City-----	4	1	0	0	0	0	0	0	0
<b>PACIFIC</b>									
Oregon:									
Portland-----	1	0	0	0	0	0	0	1	1
California:									
Los Angeles-----	0	2	0	0	0	0	0	0	0
San Francisco-----	0	1	1	1	0	0	0	0	0

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended November 9, 1929, compared with those for a like period ended November 10, 1928. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 31,000,000. The 91 cities reporting deaths have nearly 30,000,000 estimated population. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

*Summary of weekly reports from cities, October 6 to November 9, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928<sup>1</sup>*

## DIPHTHERIA CASE RATES

	Week ended—									
	Oct. 12, 1929	Oct. 13, 1928	Oct. 19, 1929	Oct. 20, 1928	Oct. 26, 1929	Oct. 27, 1928	Nov. 2, 1929	Nov. 3, 1928	Nov. 9, 1929	Nov. 10, 1928
98 cities-----										155
New England-----	95	124	129	145	111	156	115	90	120	122
Middle Atlantic-----	75	83	88	84	86	99	99	110	104	109
East North Central-----	139	111	155	133	163	154	168	169	194	169
West North Central-----	123	137	167	127	137	158	160	145	200	211
South Atlantic-----	139	210	180	241	139	186	144	231	126	260
East South Central-----	231	231	170	231	153	168	204	196	217	238
West South Central-----	265	211	352	199	411	174	451	223	496	276
Mountain-----	0	44	70	62	26	27	17	71	61	71
Pacific-----	62	79	90	72	125	67	115	64	100	79

<sup>1</sup> The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1929 and 1928, respectively.

<sup>2</sup> South Bend, Ind., not included.

<sup>3</sup> Fargo, N. Dak., not included.

*Summary of weekly reports from cities, October 6 to November 9, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued*

## MEASLES CASE RATES

	Week ended—									
	Oct. 12, 1929	Oct. 13, 1929	Oct. 19, 1929	Oct. 20, 1929	Oct. 26, 1929	Oct. 27, 1929	Nov. 2, 1929	Nov. 3, 1929	Nov. 9, 1929	Nov. 10, 1929
	22	32	30	340	30	53	38	59	344	74
98 cities.....										
New England.....	16	69	59	179	29	244	27	338	20	402
Middle Atlantic.....	12	27	17	20	21	25	33	33	20	43
East North Central.....	29	31	40	24	47	41	40	39	68	57
West North Central.....	23	49	31	76	21	49	52	68	95	43
South Atlantic.....	9	40	9	34	9	69	15	46	9	59
East South Central.....	14	7	0	14	20	0	0	7	7	0
West South Central.....	4	0	4	0	16	8	0	8	4	8
Mountain.....	61	53	52	71	26	124	244	80	61	177
Pacific.....	67	18	75	41	65	43	60	15	117	43

## SCARLET FEVER CASE RATES

98 cities.....	115	113	138	3111	138	115	156	125	3191	165
New England.....	163	138	174	152	163	117	179	131	278	175
Middle Atlantic.....	48	58	69	69	75	57	89	69	102	95
East North Central.....	173	153	214	137	192	151	226	172	294	233
West North Central.....	140	180	173	139	173	215	160	198	3177	254
South Atlantic.....	139	142	127	124	174	113	139	117	167	153
East South Central.....	122	154	231	133	109	126	204	147	177	161
West South Central.....	134	97	107	73	154	77	154	138	158	178
Mountain.....	148	80	157	89	235	62	226	62	357	89
Pacific.....	90	97	117	151	107	179	187	148	182	169

## SMALLPOX CASE RATES

98 cities.....	7	1	12	3	10	2	13	1	39	4
New England.....	0	0	0	0	0	2	0	0	2	0
Middle Atlantic.....	1	0	0	0	0	0	0	0	0	0
East North Central.....	3	2	7	3	12	3	20	0	15	7
West North Central.....	13	0	21	2	31	2	42	2	29	6
South Atlantic.....	0	0	0	0	0	0	0	0	0	0
East South Central.....	0	0	0	0	0	0	14	7	0	0
West South Central.....	4	4	0	0	0	4	28	4	8	4
Mountain.....	96	9	122	62	52	0	61	0	17	9
Pacific.....	35	5	87	10	52	15	30	5	20	15

## TYPHOID FEVER CASE RATES

98 cities.....	26	22	18	318	15	19	11	13	39	10
New England.....	16	16	9	7	16	16	7	7	11	9
Middle Atlantic.....	10	20	8	23	8	18	8	11	8	7
East North Central.....	8	11	10	7	7	10	6	5	6	5
West North Central.....	8	16	25	10	6	14	17	18	12	4
South Atlantic.....	26	38	24	40	21	44	13	34	13	17
East South Central.....	27	63	68	42	48	63	34	42	20	42
West South Central.....	28	28	16	8	43	24	20	20	12	41
Mountain.....	749	89	192	53	200	27	78	18	17	27
Pacific.....	7	26	20	13	5	13	2	5	7	3

\*South Bend, Ind., not included.

\*Fargo, N. Dak., not included.

*Summary of weekly reports from cities, October 8 to November 9, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued*

## INFLUENZA DEATH RATES

	Week ended—									
	Oct. 12, 1929	Oct. 13, 1928	Oct. 19, 1929	Oct. 20, 1928	Oct. 26, 1929	Oct. 27, 1928	Nov. 2, 1929	Nov. 3, 1928	Nov. 9, 1929	Nov. 10, 1928
91 cities.....	8	7	8	10	9	11	11	10	18	13
New England.....	0	9	2	2	0	5	2	2	5	5
Middle Atlantic.....	8	4	6	7	12	8	9	5	8	12
East North Central.....	8	7	9	7	10	5	9	10	8	9
West North Central.....	3	3	9	12	3	12	6	12	13	3
South Atlantic.....	11	4	9	6	4	10	19	11	4	8
East South Central.....	22	15	7	46	22	8	30	31	37	38
West South Central.....	16	29	16	21	20	12	28	25	12	37
Mountain.....	26	9	17	62	17	44	26	18	0	27
Pacific.....	7	17	7	27	3	54	3	27	16	40

## PNEUMONIA DEATH RATES

91 cities.....	80	81	97	105	108	89	106	88	105	94
New England.....	75	64	97	126	63	74	75	90	120	80
Middle Atlantic.....	87	94	118	124	144	92	113	83	115	105
East North Central.....	65	57	81	87	91	78	101	78	78	77
West North Central.....	54	64	69	77	72	61	136	107	110	98
South Atlantic.....	103	96	81	115	112	117	116	96	137	75
East South Central.....	59	92	111	92	133	130	155	115	89	169
West South Central.....	118	79	93	75	89	83	110	121	130	92
Mountain.....	122	115	122	82	122	124	131	97	131	97
Pacific.....	59	64	85	98	46	98	33	87	75	125

<sup>a</sup> South Bend, Ind., not included.<sup>b</sup> Fargo, N. Dak., not included.

*Number of cities included in summary of weekly reports and aggregate population of cities of each group, approximated as of July 1, 1929 and 1928, respectively*

Groups of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases		Aggregate population of cities reporting deaths	
			1929	1928	1929	1928
Total.....	98	91	31,568,400	31,052,700	29,995,100	29,498,600
New England.....	12	12	2,305,100	2,273,900	2,305,100	2,273,900
Middle Atlantic.....	10	10	10,809,700	10,702,200	10,809,700	10,702,200
East North Central.....	16	16	8,181,900	8,001,300	8,181,900	8,001,300
West North Central.....	12	9	2,712,100	2,673,300	1,736,900	1,706,166
South Atlantic.....	19	19	2,783,200	2,732,900	2,783,200	2,732,900
East South Central.....	6	5	767,900	745,500	704,200	682,466
West South Central.....	8	7	1,319,100	1,289,900	1,285,000	1,256,460
Mountain.....	9	9	598,800	590,200	598,800	598,200
Pacific.....	6	4	2,060,600	2,043,500	1,590,300	1,551,260

# FOREIGN AND INSULAR

## CANADA

*Provinces—Communicable diseases—Week ended November 2, 1929.*—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases in the Provinces of Canada for the week ended November 2, 1929, as follows:

Province	Cerebro-spinal fever	Dysentery	Influenza	Lethargic encephalitis	Poliomyelitis	Small-pox	Typhoid fever
Prince Edward Island.....							
Nova Scotia.....			1			1	
New Brunswick.....							3
Quebec.....	2		1	1	10	5	11
Ontario.....	2				3	5	34
Manitoba.....						1	1
Saskatchewan.....	1					1	2
Alberta.....					3	4	2
British Columbia.....		6			1	1	1
Total.....	5	6	2	1	18	13	54

*Ontario Province—Communicable diseases (comparative)—Four weeks ended September 28, 1929.*—The following table shows the number of cases of certain communicable diseases, with deaths, reported in the Province of Ontario for the four weeks ended September 28, 1929, as compared with the corresponding period of the year 1928:

Disease	1929		1928	
	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis.....	6	1	3	
Chancroid.....			1	
Chicken pox.....	196		128	
Conjunctivitis.....			4	
Diphtheria.....	338	23	238	10
Dysentery.....	10	9		5
Erysipelas.....	1			
German measles.....	2		3	
Gonorrhœa.....	260		260	
Influenza.....	3	2		
Measles.....	177		87	6
Mumps.....	112		169	1
Paratyphoid fever.....	2		1	
Pneumonia.....		104		75
Poliomyelitis.....	227	9	27	2
Puerperal septicemia.....				1
Scarlet fever.....	193	1	164	3
Septic sore throat.....		2		
Smallpox.....	19		31	
Syphilis.....			161	1
Tetanus.....	114			
Trichinosis.....	1			
Tuberculosis.....	121	64	127	55
Typhoid fever.....	98	11	138	4
Whooping cough.....	361	5	490	7

*Quebec Province—Communicable diseases—Week ended November 9, 1929.*—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended November 9, 1929, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis.....	1	Poliomyelitis.....	5
Chicken pox.....	126	Puerperal fever.....	3
Diphtheria.....	74	Scarlet fever.....	140
German measles.....	4	Smallpox.....	6
Influenza.....	5	Tuberculosis.....	70
Measles.....	107	Typhoid fever.....	6
Mumps.....	72	Whooping cough.....	125

*Quebec Province—Vital statistics—August, 1929.*—Births, deaths, and marriages for the month of August, 1929, in the Province of Quebec, Canada, with deaths from certain principal causes, are shown in the following table:

Estimated population.....		2,691,000	Deaths from—Continued.
Births.....	6,278	Diphtheria.....	21
Birth rate per 1,000 population.....	27.5	Heart disease.....	350
Deaths.....	2,599	Influenza.....	15
Death rate per 1,000 population.....	11.4	Measles.....	3
Marriages.....	2,047	Pneumonia.....	118
Deaths under 1 year.....	738	Scarlet fever.....	6
Infant mortality rate.....	117.6	Syphilis.....	8
Deaths from—		Tuberculosis (pulmonary).....	175
Cancer.....	164	Tuberculosis (other forms).....	61
Cerebrospinal meningitis.....	8	Typhoid fever.....	22
Diabetes.....	20	Violence.....	142
Diarrhea.....	266	Whooping cough.....	40

*Prince Rupert, British Columbia—Measles.*—An outbreak of measles is reported from Prince Rupert, British Columbia, Canada, with 60 cases for the week ended November 2 and 94 for the week ended November 9, 1929. The disease is stated to have spread to Prince Rupert from some near-by cannery settlements during the latter part of September.

#### CUBA

*Provinces—Communicable diseases—Four weeks ended October 26, 1929.*—During the four weeks from September 29 to October 26, 1929, cases of certain communicable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matanzas	Santa Clara	Camaguey	Oriente	Total
Cancer		6		1		1	8
Cerebrospinal meningitis		2					2
Chicken pox	6					1	7
Diphtheria		17	2	6	1		26
Malaria	4	17	2	3	15	23	64
Measles	1	2		16			19
Paratyphoid fever	1	1		2	3	4	11
Poliomyelitis		1					1
Scarlet fever	1	3				1	5
Typhoid fever	11	30	9	46	16	30	142

### NETHERLANDS

*Smallpox (reported as alastrim).*—During the week ended November 2, 1929, two cases of smallpox (reported as alastrim) were reported at Rotterdam. The disease was stated to be spreading at The Hague, where 10 cases were reported. One case was reported at Beverwijk and one at Rijswijk.

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

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

**CHOLERA**

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

Place	Week ended—														
	Apr. 7, 1929	May 4, 1929	June 1, 1929	June 5- 29, 1929	June 2- 30, 1929	July 28- Aug. 24, 1929	Aug. 31, 1929	Sept. 7	Sept. 14	Sept. 21	Sept. 28	Oct. 5	Oct. 12	Oct. 19	Oct. 26
Ceylon.....															
Colombo.....	D C D	1 3 3	3 3 1												
China:															
Amoy.....	C	3	2	4	7	1									
Canton.....	D	3	1	10	6	5	3								
Manchuria—															
Kwantung—Dairen.....	C	2	1	5	5	3									
Newchwang.....	C	2	3	1,306	483	300	139	P 1							
Shanghai.....	C	2	3	98	30	22	8	8	8	3	30	2			
Swatow.....	C	2	3	98	30	22	8	8	8	3	30	2			
Tientsin.....	C	2	3	98	30	22	8	8	8	3	30	2			
Tientsin—Chuen-poo.....	C	2	3	98	30	22	8	8	8	3	30	2			
Chosen: Chemulpo.....	C	2	3	98	30	22	8	8	8	3	30	2			
India.....															
Calcutta.....	D C	18,521 11,069	20,616 20,311	29,449 19,910	32,081 10,342	41,090 24,065	8,507 4,886	6,958 4,070	5,873 4,272	5,558 3,420					
Karachi.....	D	1	1	1	1	1	1	1	1	1					
Madras.....	D	6	31	5	1	1	1	1	1	1					
Moulmein.....	D	8	15	8	1	1	1	1	1	1					
Negapatam.....	D	10	7	8	1	1	1	1	1	1					
Rangoon.....	D	34	30	2	1	1	1	1	1	1					
Tuticorin.....	D	34	30	2	1	1	1	1	1	1					
Vizagapatam.....	D	30	1	1	1	1	1	1	1	1					

India (French):	
Chanderngor.....	1
Karikal.....	1
Pondicherry Province.....	1
India (Portuguese):	1
Indo-China (see also table below):	1
Phnompenh.....	1
Saigon and Cholon.....	1
Saigon.....	1
Kobe.....	1
Osaka.....	1
Shimonoseki.....	1
Siam.....	1
Anthonang.....	1
Ayudhaya.....	1
Bangkok.....	1
Chakengsao.....	1
Dhannapuri.....	1
Lopburi.....	1
Nagara Pathom.....	1
Nagara Rajisma.....	1
Smud Saogram.....	1
Sriधर्मसेन्द्र) Province 1.....	1
On vessel:	1
S. S. Angly, at Saigon-Cholon.....	1
S. S. Cap. St. Jacques, at Singapore, from Saigon-Cholon.....	1
S. S. Frimpong, at Madras.....	P
S. S. Meda, at Colombo, from Calcutta.....	2
S. S. Sata Maru, at Calcutta.....	1
S. S. Shinsei, at Shanghai.....	6
S. S. Tokushima, at Hong Kong.....	1
S. S. Teras Maru, at Nagasaki, from Shanghai.....	2
	3
	2
	1

<sup>1</sup> There were 98 cases of cholera with 16 deaths in Nagarā Sriधर्मसेन्द्र Province, Siam, from May 16 to July 7, 1929.

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

#### CHOLERA—Continued

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

### Reports incomplete.

## PLAQUE

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

Place	Week ended—																
	May 5- June 1, 1929			June 30- July 1, 1929			July 28- Aug. 22, 1929			September, 1929			October, 1929			November, 1929	
Algeria:																	
Algiers.....	0	0	0	0	0	0	3	3	1	1							
Philippeville.....	0	0	0	0	0	0	1										
Aures: St. Michael's Island.....	0	0	0	0	0	0	3										
Belgian Congo:																	
Blukwia.....	0	0	0	0	0	0	2										
Bukl.....	0	0	0	0	0	0	2										
Djugu.....	0	0	0	0	0	0	5	1	1	1							
Rekwa.....	0	0	0	0	0	0	5	1	1	1							



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

## **PLAQUE—Continued**

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

Place		Week ended—																		
		May 5-June 1, 1929			June 30-July 27, 1929			July 28-Aug. 24, 1929			Aug. 31-Sept. 13, 1929			September, 1929			October, 1929			November, 1929
Greece (see also table below):																				
Messenia	C																			
Patras	C																			
Platres	C																			
Hawaii: Hamakua-Kukuihaele—Plague-infected rats.	C	6	677	1,812	4,221	1,395	1,288	1,880	1,783	3										
India—Indi...	C	1,205	414	1,059	2,266	718	651	1,003	982											
Bassein	D	2	4	1	14	1	1	1	2											
Bombay	D	1	4																	
Plague-infected rats	D	44	35	23	10	9	8	7	4											
Madras Presidency	C	64	85	97	215	37	40	72	37	51										
Rangoon	D	40	38	52	112	20	21	46	20	22										
Indo-China (see also table below):																				
Phnompenh	C	5	4	7	8	1	1	2	2	1										
Saigon and Cholon	D	3	3	8	8	1	1	2	1	1										
Iraq: Baghdad	D	1	1	1	1	1	1	1	1	1										
Plague-infected rats	C	14	12	1	2															
Diyah Liwa	D	6	2																	
Naudham	D	1	1																	
Italy: Naples Province	C	7	1																	
Japan: Osaka—Plague-infected rats	D																2			
																	3			



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

## PLAQUE—Continued

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

Place	Place				Place				Place				Place				
	May, 1929	June, 1929	July, 1929	August, 1929	September, 1929	October, 1929	September, 1929	October, 1929	May, 1929	June, 1929	July, 1929	August, 1929	September, 1929	October, 1929	May, 1929	June, 1929	July, 1929
<b>British East Africa (see also Table above):</b>																	
Kenya...	C 22	69	1,215	1,203													
Uganda...	D 1	932	1	973													
Ecuador: Guayaquil	C 2				6	7											
Plague-infected rats	D 1				1	3											
Greece (see also Table above)...	C 3	1			4	8											
Indo-China (see also Table above)...	C 1				2	6											
Madagascar (see also Table above)...	D 37		1	1													
Ambositra Province...	C 19				9												
Antsirabe Province...	D 18				48												
Majunga Province...	C 18				40												
Moramanga Province...	D 1				9												
Antsiranana 1	D 0				0												
Tsiroanomby 1	D 2				1												
Tsiroanomby 1	D 2				2												
Tsiroanomby 1	D 2				2												
Tsiroanomby 1	D 1				2												
Tsiroanomby 1	D 1				2												
<b>Madagascar (see also Table above)—Continued:</b>																	
Tananarive Province...	C 1																
Peru...	D 10																
Senegal:	D 5																
Baol 1	C 21																
Dakar 1	D 6																
Longa 1	C 11																
Rufisque 1	D 59																
Thiles 1	D 10																
Tsiroanomby 1	D 10																

<sup>1</sup> Incomplete reports.

**SMALLPOX**

Place	Week ended—												
	May 5-June 2, 1929		June 2- 29, 1929		July 28- Aug. 24, 1929		Aug. 31, 1929		September, 1929		October, 1929		November, 1929
Algeria:													
Algiers.....	C C	5 5	6 1	7 1	1								
Cherchell.....	C								1				
Oran.....								4	1				
Angola (see table below):													
Arabia: Aden.....	C D	40 20	110 20	103 56	38 37	1	2	1					
Australia: Fremantle Quarantine Station.....	C			1									
Bermuda: Hamilton.....	C		1										
Brasil:													
Porto Alegre.....	C	1					3	1	1				
Rio de Janeiro.....	C	3											
British East Africa (see also table below):													
Tanganyika.....	C D	4 4	7 10	5 2	3 1		4	2	1				
British South Africa:													
Northern Rhodesia.....	C		73										
Southern Rhodesia.....	C D	12	4	5	1		2	2					
Canada:													
Alberta.....	C		12	4			4	1		2	4		
Calgary.....	C			2				1					
Edmonton.....	C	4						1		2	4	1	
British Columbia—Vancouver.....	C	23	13	14	8	2	3		13	2	2	1	
Manitoba.....	C	6	6	1						1	1		
Winnipeg and vicinity.....	C		2										
Nova Scotia.....	C				2								
Ontario:													
London.....	C	40	84	67	7	5	4	3	7	6	1	3	
Niagara Falls.....	C	3	4								1	3	
North Bay.....	C	8	2	7				3	4	2	1	5	
Ottawa.....	C		1	1						1	1	1	
Sarnia.....	C										1		
Toronto.....	C	5	7				1	1	1	1	1	1	
Windsor.....	C	3	2	2							1	1	
Prince Edward Island.....	C								2				

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

## **SMALLPOX—Continued**

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

Belawan Deli		1		1		1		1		1		1		1	
Borneo—Samarinda.		D 3		1		1		1		1		1		2	
Celebes—Makassar.		D 1		3		7		1		1		2		3	
Java—Batavia and West Java.		D 33		20		21		4		4		2		3	
East Java and Madura.		D 1		6		8		10		3		9		16	
Sumatra—Medan.		D 1		1		2		3		4		3		1	
Jundador (see table below).		D 1		1		1		1		1		1		1	
Port Said.		C		1		1		3		2		1		1	
Suez.		C		1		1		1		1		1		1	
France (see table below).		C		1		1		1		1		1		1	
Great Britain.		C		1		1		1		1		1		1	
England and Wales.		C		1		1		1		1		1		1	
Ashton under Lyne.		C		1		1		1		1		1		1	
Birmingham.		C		4		3		1		3		2		1	
Bradford.		C		1		1		1		1		1		1	
Cardiff.		C		4		1		1		1		1		1	
Castleford.		C		12		3		1		1		1		1	
Leeds.		C		168		167		107		78		37		41	
London and Great Towns.		C		656		496		363		297		79		81	
London.		C		3		1		4		4		2		7	
Newcastle-on-Tyne.		C		37		20		15		18		59		59	
Stoke-on-Trent.		C		86		62		32		18		2		7	
West Ham.		C		1		1		1		1		1		1	
Scotland—Glasgow.		C		40		83		33		11		17		2	
Ireland (see table below).		C		24		33		35		19		3		1	
Honduras.		C		1		1		1		1		2		1	
Choluteca.		C		17,011		11,549		7,988		5,481		1,106		1,043	
Puerto Castilla.		C		4,185		3,008		2,062		1,418		231		259	
India.		C		208		147		92		63		18		5	
Bombay.		C		131		98		45		31		10		3	
Calcutta.		C		30		27		15		31		2		7	
Cochin.		C		36		24		11		20		4		7	
Karachi.		C		84		36		26		15		5		8	
Madras.		C		174		88		122		80		19		14	
Port Said.		D		20		32		22		22		7		7	
Suez.		D		161		141		110		86		6		6	
Calcutta.		D		174		147		110		80		5		5	
Cochin.		D		174		147		110		80		5		5	
Karachi.		D		161		141		110		86		6		6	
Port Said.		D		161		141		110		86		6		6	
Suez.		D		161		141		110		86		6		6	
Calcutta.		D		174		147		110		80		5		5	
Cochin.		D		174		147		110		80		5		5	
Karachi.		D		161		141		110		86		6		6	
Port Said.		D		161		141		110		86		6		6	
Suez.		D		161		141		110		86		6		6	
Calcutta.		D		174		147		110		80		5		5	
Cochin.		D		174		147		110		80		5		5	
Karachi.		D		161		141		110		86		6		6	
Port Said.		D		161		141		110		86		6		6	
Suez.		D		161		141		110		86		6		6	
Calcutta.		D		174		147		110		80		5		5	
Cochin.		D		174		147		110		80		5		5	
Karachi.		D		161		141		110		86		6		6	
Port Said.		D		161		141		110		86		6		6	
Suez.		D		161		141		110		86		6		6	
Calcutta.		D		174		147		110		80		5		5	
Cochin.		D		174		147		110		80		5		5	
Karachi.		D		161		141		110		86		6		6	
Port Said.		D		161		1									

**November 29, 1929**

2964

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

## **SMALLPOX—Continued**

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

Place	Week ended—																
	May 5-12, 1929			June 2-9, 1929			July 28- Aug. 3, 1929			September, 1929			October, 1929			November, 1929	
India—Continued.																	
Moulmein....	C	8	6	10	11	2	1	1	2	1	2	1					
Negapatam....	D	6	5	5	5	1	1	1	1	1	1	1					
Rangoon....	D	2	6	4	1	1	1	1	1	1	1	1					
Tuticorin....	D	1	1	1	1	1	1	1	1	1	1	1					
Vizagapatam....	D	2	4	3	2	1	1	1	1	1	1	1					
India (French):																	
Karikal....	C	3	5	1	12	—	8	2	4	—	2	—					
Pondicherry Province....	D	3	6	1	2	—	7	2	4	—	2	—					
Indo-China (see also table below):																	
Pnompenh....	D	32	18	21	12	2	2	2	2	2	3	2	1	1	1		
Saigon and Cholon....	D	30	15	16	7	2	2	2	2	2	3	1	1	1	1		
Iraq:																	
Baghdad....	C	3	1	1	1	—	—	—	—	—	—	8	—	—	1		
Basra....	D	8	9	1	—	—	—	—	—	—	—	2	—	—	1		
Diyalah Liwa....	D	8	1	—	—	—	—	—	—	—	—	—	—	—	—		
Kirtuk Liwa....	D	48	8	1	—	—	—	—	—	—	—	4	—	—	—		
Mossoul....	D	13	2	—	—	—	—	—	—	—	—	21	16	—	9		
Ivory Coast (see table below):																	
Janianka (outside Kingston) (astrim)....	C	20	12	81	35	7	18	1	8	—	—	24	75	52	11		
												6	33	28	26		



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

## SMALLPOX—Continued

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

Place	Week ended—															
	May 5-1929	June 1-1929	June 30-July 2-1929	July 28-Aug. 24, 1929	September, 1929			October, 1929			November, 1929					
					AUG. 31, 1929	7	14	21	28	5	12	19	26	2	9	16
<b>On vessel:</b>																
S. S. Arangai, at Sydney	C	1	1													
S. S. Assuria, at Suez, from Bombay	C															
S. S. City of Hereford, at Brisbane	C		1													
S. S. City of Venice, at Suez, from Calcutta	C			1												
S. S. Fern, at Port Said, from Abadan	C			P												
S. S. British Birch, at Suez, from Abadan	C				1											
S. S. Karos, at Zanzibar	C					1										
S. S. Kenah, at Suez, from Jeddah	C					4										
S. S. Le Panjo, et Suez, Egypt	C						1									
S. S. Taipku, at Manila, from Australia	C							6								
S. S. Unyuma, at Cape Town, from London	C								1							
<b>Place</b>																
	April, 1929	May, 1929	June, 1929	July, 1929	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-31	October, 1929		
Dahomey	C															
Indo-China (see also table above)	C	755	410		159	22		123	140	64						
Ivory Coast	C						2									
Senegal	C	57	1													
Sudan (French)	C	15						57	16							
Syria: Beirut	D	83	2					15								
	C	18	12	36	27	16	6	7	4	13	20	16	1	11	1	

Place	May 1929	June, July 1929	Septem- ber, 1929	Octo- ber, 1929	Place	May 1929	June, July 1929	Septem- ber, 1929	Octo- ber, 1929
<b>British East Africa (see also table above):</b>					Greece	5	2		
Kenya.....	C	38	45		Mexico: Durango (see also table above).....	D			
Chesun.....	C	97			Morocco.....	C	39	2	2
D	29				Persia.....	D		10	3
Ecuador: Guayaquil.....	C	1			Turkey.....	C	51		1
France.....	C	11	15			C	11		

## TYPHUS FEVER

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

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

TYPHUS FEVER—Continued

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

	C	314	264	177	90	48	2	8	7	9	5	10	3	13	1	1	26
Poland.....	D	25	19	7	4	7	1	2	1	1	1	1	1	1	1	1	
Portugal:	C			1													
Lisbon.....	C			1													
Oporto.....	C			91	33	1											
Rumania.....	D	16	31	13	2	1											
Tunisia.....	C	19	22	23	3	4											
Turkey (see table below).																	
Union of South Africa:																	
Cape Province.....	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Natal.....	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Orange Free State.....	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Transvaal.....	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Yugoslavia (see table below).																	

<sup>1</sup> During the period from Apr. 14 to May 21, 1929, 18 cases of typhus fever with 4 deaths were reported in Strabane, Tyrone County, Ireland.

Place	May, 1929	June, 1929	July, 1929	August, 1929	September, 1929	October, 1929	November, 1929	December, 1929	January, 1930	February, 1930	March, 1930	April, 1930	May, 1930	June, 1930	July, 1930	August, 1930	September, 1930	October, 1930	November, 1930	December, 1930	
Canada: Ontario.....	C	1											C	7	6	1					
Chosen.....	C	272	4										C	63	27	10	1				
China: Peking.....	D	15											D	5	4	1	1				
Seoul.....	C	1	2										C	10	10	3	4				
Czechoslovakia.....	C	18	2	2									D	1	3	1	1				
Greece: Athens.....	D	1	3	6									D	19	8	7	1				
	C												D	1	1	2					

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

## YELLOW FEVER

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

Place	Yellow Fever												Week ended—											
	Apr. 7- May 4, 1929	May 5- June 1, 1929	June 2-26, 1929	June 30-July 27, 1929	July 24- Aug. 31, 1929	September, 1929			October, 1929			November, 1929			7	14	21	28	5	12	19	26	2	9
Brazil:																								
Bahia.....	C					1																		
Nictheroy.....	D					1																		
Para.....	C					1																		
Porto Alegre.....	D	1	2			1	1																	
Rio de Janeiro.....	D					11																		
Colombia:																								
Slimacota.....	C												4											
Socorro.....	C												12											
Liberia: Monrovia.....	C												4											
On vessel:													1											
S. S. Skagland, at Porto Alegre, from Rio de Janeiro.....	D	2				4							3											
	C					1																		

<sup>1</sup> Imported.<sup>2</sup> From June 19 to July 8, 1929, 41 cases of yellow fever with 23 deaths were reported in Socorro, Colombia.

X