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A PROPOSED PLAN FOR THE ESTABLISHMENT OF A MORBIDITY REGISTRATION AREA¹

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Plans for the establishment of a morbidity registration area have been considered by this conference on several previous occasions. Various factors have intervened to prevent the development and completion of the plans presented at preceding meetings. Lack of funds available for the execution of the plans has been, perhaps, the most important cause of the delay in their inauguration.

A practicable plan for a morbidity registration area is by no means as simple a matter as it may appear on casual examination. Many questions at once present themselves for consideration. For this reason the Public Health Service does not presume to present to you a finished plan at this time; rather it is desired to submit certain tentative suggestions for consideration and discussion. The problem of a morbidity registration area has as many factors to be considered as there are States which are to be included in it or diseases which are to be reported.

In order to ascertain the views of the various State health departments regarding certain suggested plans which the Public Health Service was considering in connection with this problem, a representative of the Service recently visited a few State health departments and discussed the matter with the State health authorities. A number of very helpful suggestions were received. It is regretted that, by reason of the short time elapsing between the formulation of the plans and this meeting, it was possible to visit only a limited number of States. It was anticipated, however, that this conference would provide the opportunity for a comprehensive discussion of the entire problem.

Broadly speaking, the principal phases of this matter appear to resolve themselves into three fundamental questions:

1. Is the establishment of a morbidity registration area for the United States desirable?

¹ Presented at the Twenty-seventh Annual Conference of State and Territorial Health Officers with the United States Public Health Service, Washington, D. C., June 3, 1929.

2. What diseases should be included in such an area?

3. What standard should be required for admission?

Tentative suggestions for your consideration will be submitted with reference to each question above mentioned. Comment and discussion are earnestly desired.

It is believed that, from the standpoint of the United States as a whole, the establishment of a morbidity registration area would be desirable. It is doubtless true that in certain States with unusually efficient health departments the establishment of a morbidity registration area would be of no particular advantage to the State. However, considering the many sides to the problem, it is believed that the desirability of establishing such an area will be conceded.

(a) Such an area established by the United States Public Health Service and maintained with the cooperation and assistance of State and local health authorities would encourage the reporting of all diseases which are required by law or regulations to be reported.

(b) A morbidity registration area would assist State health authorities in stimulating cities, towns, counties, or other units within a State in morbidity reporting.

(c) Better reporting would aid in the eradication and control of the notifiable diseases. It has long been recognized that no health department can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

(d) Uniformity in reporting and the maintenance of known minimum standards would be the means of furnishing data that would be most useful in studying the epidemiology of certain diseases of importance from a public health standpoint.

The selection of the diseases the reporting of which should be required for admission and continuance in the morbidity registration area is difficult. It is felt that it is fundamental that the list should not be too long or too complicated. Many States by law or regulation now require the reporting of as many as 35 or 40 diseases. A number of such diseases are of infrequent occurrence. In practice, morbidity reporting usually narrows down to a few diseases.

It has been suggested that the selection of six or eight diseases for the morbidity registration area would emphasize these diseases to the neglect of others of perhaps equal public health importance. It is felt that, if properly administered, a morbidity registration area should stimulate all reporting. Then, too, when the plan becomes thoroughly established, it would doubtless be desirable and necessary to add other diseases from time to time and to raise the standards for admission or continuance in the area.

The following criteria have been suggested for the inclusion of a disease as required for the morbidity registration area:

- (1) The disease should be a well-defined clinical entity.
- (2) It should be endemic in clinically recognizable form.
- (3) It should be important from clinical and public health points of view.
- (4) Its characteristics must be such as will make possible a reliable check of incidence.

To apply the above criteria would exclude local or sectional diseases or conditions peculiar to a given area and would admit only those diseases prevalent throughout the entire country. This appears to be a desirable requirement.

As a basis for discussion, the following six diseases have been tentatively listed, the reporting of which would be required for admission into the proposed morbidity registration area:

1. Diphtheria.
2. Infantile paralysis.
3. Scarlet fever.
4. Smallpox.
5. Typhoid fever.
6. Tuberculosis.

The question as to what standards in reporting should be required for admission into the proposed area is even more difficult. From the standpoint of completeness, and to be of statistical value, it is felt that a minimum of 75 per cent of all clinically recognized cases occurring in a given area would not be too exacting a requirement.

It is proposed to make the plan of a morbidity registration area effective July 1, 1930. In order to do this it would seem necessary to admit units of varying sizes—States, cities, towns, counties, townships, or other divisions—a State as a whole to be admitted when at least 75 per cent of the population are in the area submitting satisfactory reports.

The determination of the proposed requirements for each disease is an exceedingly difficult matter. Indeed it is doubtful whether there is a great deal of reliable information now available which could be safely used for this purpose.

A number of factors must be considered. Mortality rates vary and by some are not considered a reliable index of morbidity reporting. Climate, season, population, and severity and character of outbreaks are all factors that must be reckoned with. Hence some method or combination of methods that will take into account these variables must be utilized.

The funds available to the Public Health Service for the conduct of this work are limited. Hence it will be necessary to secure the cooperation and active assistance of the several State and local health departments in order to collect the necessary data and begin the work.

It is thought that, in order to obtain information regarding the occurrence of these diseases in States, cities, towns, counties, and other units desiring admission, a survey of approximately 1 per cent of the population, covering at least four widely separated sections of the area under consideration, should be made for the purpose of obtaining facts as to the occurrence of these diseases in that area. Some plan whereby these data can be obtained directly from physicians and householders through the use of questionnaires, supplemented by personal visits, is believed to be practicable. With the collection, analysis, and consideration of such information, more equitable standards for admission could then be agreed upon at the next meeting of this conference prior to the effective date of the proposed establishment of the morbidity registration area on July 1, 1930. The Public Health Service would expect to have a representative cooperate with and assist State and local health authorities in the application of such a plan for the collection of information in each area under consideration as above indicated.

It is well to point out here that, in the development and establishment of a morbidity registration area, the Public Health Service feels that the essential object is to assist State and local health authorities in improving the reporting of notifiable diseases. The collection of useful data, while important, is not felt at this time to be the primary object.

The tentative plan above outlined is by no means complete. It is hoped to develop and make it effective with the cooperation and aid of the State health departments. No doubt important changes and additions will be made. It is probable that several years will be required for this final evolution. It is believed that an advisory committee from this conference to aid the Public Health Service in working out details and formulating and initiating a definite plan of action would be most desirable and useful.

SICKNESS AMONG INDUSTRIAL EMPLOYEES DURING THE FIRST THREE MONTHS OF 1929¹

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During the past nine years a group of about 35 sick-benefit associations in industry has reported to the United States Public Health Service the cases of illness and nonindustrial accidents causing disability for eight consecutive calendar days or longer among its members, and the monthly number of male and female members. These reports have been analyzed once a year, and the results presented from

¹ From the Office of Industrial Hygiene and Sanitation in cooperation with the Office of Statistical Investigations, United States Public Health Service.

time to time in the Public Health Reports.² This material has afforded measurement and evaluation of several important factors affecting the frequency of 8-day and longer disabilities, and has revealed the relative frequency of different diseases and disease groups in a sample of the industrial population. It is realized, however, that a need also exists for some sort of *current* index of illness so that attention may be directed to the changing morbidity picture, and preventive effort mobilized to reduce the incidence of those diseases which are causing the greatest impairment to the health, vitality, and efficiency of the adult occupied population as indicated from the recorded sickness experience of a sample of that population.

This communication represents the first attempt to provide fairly current information on industrial morbidity. It was hoped that the sickness rates could be presented soon after the close of the first quarter, but tardy claims for sickness benefits, deferred diagnoses, and other reasons delayed the reports to the Public Health Service. It appears practicable, however, to obtain sickness reports somewhat more promptly in the future, and it is believed that the results for the second quarter of 1929 can be made available at a relatively earlier date than was possible for the statistics of the first three months.

Comparison is planned of the frequency of 8-day and longer disabilities in the current quarter with the rate in the corresponding period of the preceding year. The industrial establishments to be included are those which reported in both years so that as nearly the same population as is possible to obtain can be under observation in the two periods. The present tabulation covers 13 large industrial establishments having a combined male working force of approximately 100,000. All but one of the establishments are located in the region lying north of the Ohio and Potomac Rivers and east of the Mississippi. The sickness rates for female employees are not presented.

As pointed out in all previous communications on the subject, the recorded sickness undoubtedly understates to some extent the real magnitude of the incidence rate of cases causing disability for more than one week, because nearly all of the reporting associations refuse payment for disability on account of the venereal diseases, for illness resulting from the violation of any civil law, for the results of wilful or gross negligence, and for certain other causes; and some associations do not pay for chronic diseases contracted prior to the date of joining the organization, for disabilities caused by or growing out of specific physical defects, nor for illnesses not reported within specified time limits.

² These articles are available in the following reprints from the Public Health Reports: Reprints No. 671, No. 721, No. 807, No. 989, No. 1060, and No. 1266.

TABLE 1.—Frequency of disabilities lasting eight consecutive days or longer in the first quarter of 1929, compared with the first quarter of 1928, among the male employees of 13 industrial establishments which reported their cases to the United States Public Health Service during both years

Diseases causing disability (Numbers in parentheses are disease title numbers from the International List of the Causes of Death, third revision, 1920)	Annual number of disabilities per 1,000 men in first quarter of—		Per cent increase or decrease in rate in 1929	Number of disabilities in first quarter of—	
	1929	1928		1929	1928
Sickness and nonindustrial injuries	184.2	133.8	+38	4,834	3,325
Nonindustrial injuries	11.4	10.9	+5	299	272
Sickness	172.8	122.9	+41	4,535	3,053
Respiratory diseases	112.4	60.3	+86	2,949	1,499
Influenza and grippé (11)	86.5	32.9	+163	2,271	817
Bronchitis (99)	6.8	7.7	-12	179	192
Pneumonia, all forms (100, 101)	5.5	4.3	+28	143	103
Diseases of the pharynx and tonsils (109)	6.7	7.1	-6	175	176
Other respiratory diseases (31, 97, 98, 102-107)	6.9	8.3	-17	181	206
Nonrespiratory diseases	60.4	62.6	-4	1,536	1,554
Diseases of the stomach, diarrhea, and enteritis (111, 112, 114)	5.8	6.6	-12	152	163
Other diseases of digestive system (103, 110, 115-127)	10.2	8.4	+21	267	209
Diseases of the circulatory and genito-urinary system and annexa (87-96, 128-142)	9.0	9.9	-9	237	247
Diseases of the nervous system (70-84)	5.5	5.8	-5	144	143
Diseases of the skin (151-154)	5.0	4.8	+4	132	119
Epidemic and endemic diseases, except influenza (1-10, 12-25)	6.0	6.0	0	157	148
Rheumatism—acute and chronic (51, 52)	6.8	7.0	-3	178	175
Lumbago and other diseases of the organs of locomotion (158)	4.7	4.7	0	125	117
Ill-defined and unknown causes (205)	2.2	2.7	-19	58	67
All other diseases (26-30, 32-37, 41-50, 53-69, 85, 86, 155-157, 159, 164)	5.2	6.7	-22	136	166

Average number of males covered in the records:

First quarter of 1929, 106,417.

First quarter of 1928, 99,982.

In Table 1 an increase of 38 per cent, compared with the first quarter of 1928, is shown in the incidence rate of disabilities lasting more than one week. For the respiratory disease group an 86 per cent increase in frequency is indicated, due, of course, to the influenza epidemic which was still raging in the early part of this year. Influenza itself was 163 per cent more frequent than in the same period last year. The pneumonia (all forms) rate was only 28 per cent above the rate of a year ago. Deaths in the industrial population of the United States and Canada followed the increased frequency of sickness. The Metropolitan Life Insurance Co.³ reports an increase of 18 per cent in the industrial death rate in the first quarter compared with the same part of 1928. The mortality rate appears to have been higher than during the first three months of any year since 1920. The combined influenza-pneumonia death rate showed an increase of 88 per cent over the rate in the first quarter of 1928. Disabilities which lasted more than one week on account of influenza

³ Cf. Mortality Experience of the First Quarter of 1929. Statistical Bulletin, Metropolitan Life Insurance Co., April, 1929, Vol. X, No. 4, p. 4.

September 13, 1929

and pneumonia in our sample of the industrial population increased 147 per cent.

Sickness from nonrespiratory diseases as a whole occurred at much the same frequency in the two periods.

RECENT STATE MORTALITY STATISTICS *

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.

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	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
ALL CAUSES, ANNUAL RATE PER 1,000 POPULATION													
Alabama (total).....	10.8	11.9	13.4	19.6	12.6	11.4	11.2	11.9	11.8	12.0	11.1	11.5	.....
White.....	8.7	9.3	11.1	17.3	11.2	10.0	9.0	9.2	9.2	9.6	8.9	8.9	.....
Colored.....	14.8	16.6	17.5	26.9	17.2	15.7	15.3	16.9	16.8	16.4	15.1	16.0	.....
California.....	13.2	16.6	21.2	16.8	15.7	15.4	15.2	13.8	.....	13.6	.....	.....	.....
Connecticut.....	10.1	10.2	11.4	15.9	14.8	12.2	10.4	11.1	.....	13.0	10.5	11.6	11.4
Hawaii Territory.....	12.4	11.0	12.9	13.3	15.2	14.6	14.6	14.5	12.7	11.8	10.5	11.6	11.4
Indiana.....	11.2	11.2	16.7	17.7	14.0	13.4	12.4	12.2	10.8	10.8	11.4	11.1	10.8
Iowa.....	9.7	9.4	14.4	14.6	12.2	11.0	10.7	10.4	.....	10.9	.....	.....	.....
Kansas.....	9.8	10.8	18.0	13.1	12.7	12.1	.....	.....	.....	13.8	.....	.....	.....
Kentucky.....	10.5	10.4	11.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	11.5	11.9	15.7	18.8	13.4	12.1	.....	.....	.....	13.7	.....	.....	.....
Michigan.....	10.9	11.3	16.2	17.0	12.9	13.2	12.7	13.2	11.7	.....	.....	.....	.....
Minnesota.....	8.6	8.8	12.5	13.6	9.1	9.7	9.3	9.2	8.6	8.3	.....	.....	.....
Mississippi.....	10.7	11.4	16.7	23.1	14.0	13.0	11.8	11.1	12.6	.....	.....	.....	.....
Nebraska.....	8.3	8.8	14.8	12.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	10.6	10.8	13.2	17.3	14.0	13.2	12.1	11.3	10.5	11.2	10.9	10.4	12.1
New York ¹	12.1	12.4	13.8	20.3	15.6	14.1	13.5	13.0	.....	14.2	13.6	14.3	15.0
North Carolina.....	10.8	11.1	17.5	18.2	15.7	12.6	11.7	11.9	.....	.....	.....	.....	.....
Pennsylvania.....	10.9	11.5	15.8	19.4	14.0	12.9	11.7	11.2	.....	13.5	11.8	13.2	12.3
Rhode Island.....	.....	.....	19.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	7.5	8.1	14.1	10.8	9.6	8.9	.....	.....	.....	9.8	.....	.....	.....
Tennessee.....	10.9	11.3	16.1	19.2	14.4	13.8	11.3	10.7	10.9	11.5	12.1	.....	.....
Virginia.....	.....	.....	13.1	19.1	13.5	12.0	10.3	9.8	9.7	.....	.....	.....	.....
Wisconsin.....	.....	.....	14.5	11.8	11.2	11.1	10.6	10.0	.....	.....	.....	.....	.....

¹ Exclusive of New York City.

The rate given for New Jersey for January, 1929, published in Public Health Reports for Aug. 9, 1929, p. 1948, was erroneous. It should have been 17.3.

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

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
INFANT MORTALITY, PER 1,000 LIVE BIRTHS													
Alabama (total).....	69	61	72	125	92	86	69	78	73	71	76	78	-----
White.....	62	49	60	100	79	79	62	66	69	64	64	71	-----
Colored.....	82	85	95	171	117	97	80	99	81	88	99	92	-----
California.....	58	69	76	66	73	74	69	65	65	64	-----	-----	-----
Connecticut.....	59	39	56	74	85	69	61	79	79	71	52	79	73
Hawaii Territory.....	87	80	113	100	120	129	117	109	108	-----	-----	-----	-----
Indiana.....	60	54	81	97	83	70	60	63	48	56	51	62	54
Iowa.....	42	53	44	103	75	37	61	48	48	54	-----	-----	-----
Kansas.....	55	56	60	94	73	77	-----	-----	-----	74	-----	-----	-----
Louisiana.....	79	68	73	94	75	76	-----	-----	-----	89	-----	-----	-----
Michigan.....	66	69	86	112	71	71	67	69	57	-----	-----	-----	-----
Minnesota.....	50	41	56	83	66	48	51	49	36	-----	-----	-----	-----
Nebraska.....	62	45	80	79	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey.....	56	67	68	93	70	71	70	59	59	-----	-----	-----	-----
New York ¹	62	63	70	87	81	77	70	64	64	73	65	85	73
Pennsylvania.....	66	65	90	118	95	81	69	65	65	89	70	82	71
Rhode Island.....	-----	-----	100	-----	-----	-----	-----	-----	-----	72	-----	-----	-----
South Dakota.....	53	70	59	85	99	66	-----	-----	-----	-----	-----	-----	-----
Tennessee.....	-----	-----	-----	145	98	89	61	86	63	-----	-----	-----	-----
Virginia.....	56	72	140	91	78	61	-----	-----	67	-----	-----	-----	-----
Wisconsin.....	55	59	72	105	68	69	89	60	51	60	-----	-----	-----
CONGENITAL MALFORMATIONS AND DISEASES OF EARLY INFANCY, (159-163), PER 1,000 LIVE BIRTHS													
Alabama (total).....	29	21	23	37	27	31	27	34	29	31	33	29	-----
White.....	29	20	27	39	28	32	29	34	34	33	31	29	-----
Colored.....	28	25	18	39	26	28	24	34	20	26	35	28	-----
California.....	28	31	24	35	33	31	33	32	31	31	-----	-----	-----
Iowa.....	26	35	35	48	34	36	35	31	31	33	-----	-----	-----
Kansas.....	31	34	27	37	32	26	-----	-----	-----	36	-----	-----	-----
Louisiana.....	31	25	25	26	21	29	-----	-----	-----	37	-----	-----	-----
Michigan.....	24	37	39	45	37	34	35	38	33	-----	-----	-----	-----
Minnesota.....	33	25	20	37	35	30	33	32	26	-----	-----	-----	-----
Nebraska.....	27	37	34	30	-----	-----	-----	-----	-----	-----	-----	-----	-----
New York ¹	38	39	40	43	43	41	38	41	41	42	40	49	44
Pennsylvania.....	33	34	37	41	38	33	34	35	35	38	36	37	36
Rhode Island.....	-----	-----	45	-----	-----	-----	-----	-----	-----	41	-----	-----	-----
South Dakota.....	32	38	28	36	43	29	-----	-----	28	41	-----	-----	-----
Tennessee.....	-----	-----	36	28	27	20	26	28	28	-----	-----	-----	-----
TYPHOID FEVER, (1)													
Alabama.....	13.8	9.5	6.0	1.3	1.4	2.2	5.7	5.5	11.4	5.2	19.4	9.3	-----
California.....	3.1	1.1	1.0	1.0	2.6	2.1	1.6	1.6	-----	1.8	-----	-----	-----
Connecticut.....	-----	-----	-----	.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hawaii Territory.....	3.4	3.5	-----	-----	3.7	13.5	3.5	3.4	3.5	-----	-----	-----	-----
Indiana.....	9.3	7.7	3.0	1.5	.4	.4	3.4	1.5	2.3	2.3	2.3	1.9	-----
Iowa.....	1.0	2.5	3.4	1.5	1.1	5.5	2.6	1.0	-----	.5	-----	-----	-----
Kansas.....	3.8	2.0	1.3	1.3	1.4	1.9	-----	-----	-----	-----	-----	-----	-----
Kentucky.....	27.7	29.1	13.4	6.5	5.1	3.7	-----	-----	-----	6.6	-----	-----	-----
Louisiana.....	14.5	12.5	7.8	6.0	4.0	3.6	-----	-----	-----	6.6	-----	-----	-----
Michigan.....	2.8	1.6	1.3	1.5	.9	.3	1.9	2.1	1.9	-----	-----	-----	-----
Minnesota.....	.4	-----	.4	-----	.4	-----	.5	.4	1.3	.4	-----	-----	-----
Mississippi.....	12.5	10.9	7.9	6.6	2.9	6.6	4.1	7.2	15.6	-----	-----	-----	-----
Nebraska.....	.8	1.7	3.3	3.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
New Jersey.....	2.5	2.9	.9	.6	1.0	.3	.3	1.9	.3	-----	-----	-----	-----
New York ¹	4.9	3.1	1.7	1.0	.9	.4	6	6	6	.8	1.1	1.3	2.7
North Carolina.....	10.0	5.8	7.2	2.4	1.8	2.4	2.1	3.2	-----	.8	-----	-----	-----
Pennsylvania.....	3.9	2.1	1.3	1.4	2.0	.8	.4	1.8	-----	1.3	2.0	2.4	2.0
South Carolina.....	25.9	14.4	12.6	3.2	9.1	3.2	8.9	10.1	-----	-----	-----	-----	-----
South Dakota.....	3.3	-----	6.7	3.3	3.7	-----	-----	-----	-----	1.7	-----	-----	-----
Tennessee.....	18.4	21.4	8.9	2.4	2.1	2.8	2.9	5.2	7.3	8.8	16.2	-----	-----
Virginia.....	6.9	6.1	2.3	2.7	.5	.9	.9	5.9	3.8	-----	-----	-----	-----
Wisconsin.....	.8	1.2	.8	.4	1.3	2.0	1.2	.4	.8	.8	-----	-----	-----

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
MEASLES, (7)													
Alabama.....	1.8	0.9	3.2	3.9	3.4	3.9	5.7	3.2	2.8	8.5	5.3	9.3	.....
California.....	.3	.....	3	.....	.6	1.3	.....	.5	.....	1.6	.....	.....	.....
Connecticut.....	.....	.7	2.2	3.6	4.8	7.2	7.4	6.5	.....	9.5	.....	.....	.....
Hawaii Territory.....	3.4	.....	3.4	3.4	3.7	3.4	.....	16.9	17.4	3.5	.....	.....	.....
Indiana.....	.....	.8	1.1	3.0	4.9	10.4	13.4	7.0	5.0	5.7	1.9	16.7	.....
Iowa.....	.....	.....	1.0	.....	.5	1.9	2.5	1.9	.....	.....	.5	.....	.....
Kansas.....	.....	.....	.....	.....	.....	3.8	.....	.....	.....	4.5	.....	.....	.....
Kentucky.....	4.6	1.4	.9	1.4	4.1	3.7	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	.....	.6	1.8	4.8	5.3	6.0	.....	.....	.....	27.2	.....	.....	.....
Michigan.....	.5	1.1	1.3	1.3	1.1	5.1	7.7	9.2	5.0	.....	.....	.....	.....
Minnesota.....	.4	.....	1.3	5.2	2.6	5.2	5.8	4.3	4.9	.....	.4	.....	.....
Mississippi.....	2.6	4.8	4.6	5.3	12.4	18.4	7.5	5.3	2.0	.....	.....	.....	.....
Nebraska.....	.....	.....	.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	.6	1.0	.9	.....	2.4	1.8	2.2	6	1.0	.....	.....	.....	.....
New York ¹.....	.6	1.3	1.5	5.8	4.4	5.0	3.6	4.1	.....	6.3	4.5	10.0	5.6
North Carolina.....	.4	1.2	2.0	1.2	2.7	.....	.4	.8	.....	.....	.....	.....	.....
Pennsylvania.....	.9	2.3	2.8	7.4	7.0	6.5	6.0	5.9	.....	13.4	3.0	22.6	9.8
Rhode Island.....	.....	1.3	.....	18.1	.....	.....	.....	.6	.....	.....	.....	.....	.....
South Carolina.....	.....	.....	.....	.....	10.0	.....	.....	.....	.....	1.7	.....	.....	.....
South Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.3	2.0	.....	.....
Tennessee.....	.....	.5	.5	.....	.....	.9	1.0	.....	.....	.....	.....	.....	.....
Virginia.....	.....	.9	2.7	2.7	1.0	3.2	2.4	3.7	.9	.....	.....	.....	.....
Wisconsin.....	.....	1.2	.4	2.0	2.2	2.4	7.0	6.0	4.5	.....	.4	.....	.....
SCARLET FEVER, (8)													
Alabama.....	0.5	1.4	2.1	1.7	1.4	1.7	4.4	0.9	.....	1.0	.....	.....	.....
California.....	1.0	1.9	2.1	1.8	2.6	2.6	3.7	4.4	.....	4.4	.....	.....	.....
Connecticut.....	.....	.....	.....	2.2	.....	2.9	.7	.7	.....	.....	.....	.....	.....
Indiana.....	2.2	1.9	2.6	6.3	5.7	4.4	3.8	4.4	3.4	.....	.4	2.7	1.2
Iowa.....	1.5	2.0	7.3	2.4	4.3	2.9	3.5	1.9	.....	.....	.5	.....	.....
Kansas.....	1.9	5.3	2.6	5.8	5.0	6.4	.....	.....	.....	3.2	.....	.....	.....
Kentucky.....	5.5	3.3	.9	5.5	6.1	5.1	.....	.....	.....	1.2	.....	.....	.....
Louisiana.....	3.1	.6	.....	.....	1.2	.....	.....	.....	.....	.....	.....	.....	.....
Michigan.....	1.0	2.7	5.9	4.4	5.4	5.4	7.7	3.3	2.7	.....	.....	.....	.....
Minnesota.....	2.6	1.3	1.7	6.1	2.2	3.9	2.7	2.2	.....	9	.....	.....	.....
Mississippi.....	2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nebraska.....	3.3	.9	2.5	6.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	.9	.6	1.8	1.5	1.4	1.2	2.2	1.5	1.6	.....	.....	.....	.....
New York ¹.....	.4	2.8	1.7	4.5	3.7	3.1	2.6	2.3	.....	1.9	2.1	3.3	3.6
North Carolina.....	.8	1.7	1.6	2.4	1.8	1.2	2.9	2.4	.....	.....	3.6	3.4	3.4
Pennsylvania.....	2.8	2.0	3.1	4.8	3.3	3.0	3.3	3.1	.....	.....	.....	5.8	.....
Rhode Island.....	.....	.....	3.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	.6	7	1.9	1.3	.....	.....	.....	1.3	.....	.....	.....	.....	.....
South Dakota.....	1.7	1.7	3.3	1.7	5.6	6.0	.....	.....	.....	1.7	.....	.....	.....
Tennessee.....	2.8	1.9	2.8	1.4	4.7	3.3	2.9	2.8	.....	5	1.0	.....	.....
Virginia.....	2.8	2.3	1.4	1.0	1.8	.....	.....	.....	.....	.....	.....	.....	.....
Wisconsin.....	1.6	3.3	3.6	2.4	4.4	3.6	5.4	.4	2.9	2.1	.....	.....	.....
WHOOPING COUGH, (9)													
Alabama.....	4.1	6.2	6.9	9.1	10.1	7.0	10.4	10.1	10.4	8.1	23.7	20.0	.....
California.....	5.4	6.4	10.9	7.0	4.3	7.2	8.3	9.0	.....	12.1	.....	.....	.....
Connecticut.....	5.8	2.3	2.9	6.5	4.0	2.9	.7	2.2	.....	7.3	.....	.....	.....
Hawaii Territory.....	6.7	.....	20.2	30.4	37.4	40.5	83.7	67.5	38.3	3.5	.....	.....	.....
Indiana.....	1.1	.8	5.6	7.0	6.2	6.3	6.5	7.0	6.5	5.0	3.5	12.5	.....
Iowa.....	1.9	2.0	5.3	5.3	3.2	6.3	8.0	4.8	.....	4.9	.....	.....	.....
Kansas.....	4.5	3.3	2.6	5.8	7.8	5.8	.....	.....	.....	9.0	.....	.....	.....
Kentucky.....	4.2	4.8	7.4	10.6	13.8	8.8	.....	.....	.....	9.7	.....	.....	.....
Louisiana.....	7.8	5.6	7.8	5.4	6.7	6.0	.....	.....	.....	.....	.....	.....	.....
Michigan.....	3.3	3.2	10.0	7.2	7.7	4.6	7.2	8.2	5.6	.....	.....	.....	.....
Minnesota.....	2.6	3.6	6.5	9.1	6.1	4.3	4.9	5.2	.9	2.7	.....	.....	.....
Mississippi.....	3.9	6.8	5.9	11.2	10.2	11.2	14.3	10.5	17.7	.....	.....	.....	.....
Nebraska.....	4.2	.....	5.0	3.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	4.0	2.5	4.9	13.3	6.8	6.2	5.7	4.0	2.2	.....	.....	.....	.....
New York ¹	2.3	2.8	1.7	6.2	5.0	5.4	4.3	3.3	.....	5.3	2.6	8.9	4.6
North Carolina.....	4.8	2.9	4.4	9.2	8.4	5.2	7.5	9.6	.....	.....	.....	.....	.....
Pennsylvania.....	4.9	7.4	12.0	12.4	8.4	5.2	4.8	4.3	.....	2.3	5.5	14.3	6.6
Rhode Island.....	7.6	2.6	7.6	3.2	9.1	7.6	13.1	17.1	.....	.....	.....	.....	.....
South Carolina.....	7.6	2.6	7.6	3.2	9.1	7.6	13.1	17.1	.....	1.7	.....	.....	.....
South Dakota.....	6.7	3.5	.....	1.7	3.7	3.3	.....	.....	.....	3.4	18.6	.....	.....
Tennessee.....	3.8	3.9	5.2	10.4	6.8	4.2	6.3	7.5	6.3	3.4	18.6	.....	.....
Virginia.....	.9	6.4	18.3	9.1	6.0	6.1	8.2	9.9	.....	.....	.....	.....	.....
Wisconsin.....	2.8	.8	3.2	2.4	3.5	3.2	6.6	5.6	4.9	1.2	.....	.....	.....

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
DIPHTHERIA, (10)													
Alabama	17.4	23.7	17.9	10.0	3.9	4.3	2.8	2.3	1.4	0.5	1.9	1.5	
California	4.4	5.1	5.4	4.9	3.7	1.8	3.7	3.4		7.2			
Connecticut	5.1	6.0	8.0	3.6	4.0	2.9	3.7	4.3		4.4			
Hawaii Territory	13.5	7.0	6.7	3.4	11.2	13.5	20.9	6.7	10.5	17.4			
Indiana	7.8	10.0	10.0	5.9	5.7	3.7	5.0	3.3	1.5	3.8	5.4	2.3	
Iowa	4.4	5.0	4.4			.5	2.0	1.5		1.0			
Kansas	7.1	5.3	7.1	2.6	2.8	4.5					3.8		
Kentucky	26.3	25.7	17.5	12.5	10.2	5.1							
Louisiana	11.5	14.4	16.3	4.2	8.7	3.0					8.5		
Michigan	8.7	9.3	12.8	12.1	8.5	12.6	10.3	11.3	13.0				
Minnesota	1.7	3.1	5.2	2.2	2.2	3.0	2.2	2.6	.9	1.3			
Mississippi	11.8	12.9	15.1	6.6	5.8	2.0	2.0		1.4				
Nebraska	5.0	6.1	4.2	5.0									
New Jersey	7.1	11.8	14.2	20.6	13.0	10.2	10.5	10.5	9.9				
New York ¹	2.3	4.6	3.8	4.5	3.4	3.7	2.4	3.1		3.4	4.5	5.5	9.5
North Carolina	18.4	29.4	26.4	16.8	10.2	4.8	4.1	1.6					
Pennsylvania	6.0	10.9	10.8	10.3	7.1	9.2	6.8	5.7		7.2	7.8	8.1	11.0
Rhode Island				6.6									
South Carolina	20.2	22.2	24.6	6.3	4.9	6.9	2.0	4.4					
South Dakota	1.7	3.5	1.7		1.9					3.3			
Tennessee	17.4	24.8	18.8	7.5	4.7	4.7	2.9	3.3	2.9	.5	1.5		
Virginia	10.1	15.6	12.3	8.2	4.6	7.8	1.9	1.4	1.4				
Wisconsin	2.8	3.7	4.8	2.8	3.1	2.0	.8	4.4	2.5	4.1			
INFLUENZA, (11)													
Alabama (total)	25.2	37.9	164.7	762.7	236.7	117.9	53.2	43.6	19.5	33.2	17.4	24.0	
White	21.0	35.5	152.8	711.4	241.3	110.0	47.1	32.2	18.1	26.8	13.6	16.8	
Colored	33.0	42.2	185.9	973.1	261.3	150.4	64.0	77.8	21.8	45.0	24.5	36.7	
California	29.5	127.1	254.0	91.5	47.2	40.1	23.5	13.4		15.2			
Connecticut	12.4	9.0	34.3	198.6	133.5	40.9	21.5	9.3		71.5	20.0	33.2	23.4
Hawaii Territory	37.1	27.9	30.4	23.6	20.9	23.6	38.3	27.0	20.9	3.5			
Indiana	16.3	21.4	267.7	341.4	131.3	66.0	36.4	21.1	13.0	27.4	13.9	16.0	10.6
Iowa	19.9	16.0	256.5	312.3	101.5	57.7	28.1	28.6		67.9			
Kansas	23.7	29.2	392.7	221.4	120.8	85.3				139.9			
Kentucky	18.5	38.1	142.0	818.6	281.9	98.7				125.0			
Louisiana	18.7	34.3	162.4	490.9	179.8	95.4							
Michigan	10.0	13.8	157.2	237.7	76.9	39.5	24.1	21.8	10.3				
Minnesota	16.4	16.1	150.1	231.9	55.4	38.9	19.2	17.7	6.7	24.1			
Mississippi	9.2	38.7	213.7	897.9	172.5	118.3	42.8	27.0	17.7				
Nebraska	20.1	30.2	367.9	219.0									
New Jersey	7.7	11.5	45.0	164.2	59.4	25.0	15.0	10.2	2.2	9.2	5.2	8.3	4.7
New York ¹	8.8	13.7	37.5	234.3	98.2	36.6	23.1	13.0		34.3	12.9	19.9	18.7
North Carolina	14.0	35.2	195.2	282.5	281.3	116.2	59.2	37.3			65.0	24.1	51.8
Pennsylvania	14.4	21.1	172.3	357.9	95.6	55.0	26.9	20.6					
Rhode Island				231.9									
South Carolina	36.0	60.7	353.7	382.2	172.7	98.5	51.6	29.7					
South Dakota	26.8	27.7	224.1	249.2	124.1	45.2				60.2			
Tennessee	17.9	34.5	225.9	644.7	252.2	135.9	71.0	33.4	18.0	40.8	11.8		
Virginia		21.7	155.0	591.2	192.9	88.2	48.7	19.2	9.9				
Wisconsin	10.0	16.5	199.8	269.1	75.9	36.3	27.2	20.7	9.9	25.1			
POLIOMYELITIS, (22)													
Alabama	0.9		1.8	0.4	2.4	0.4	0.9		2.8	1.4	1.0	1.0	
California	1.6	1.6	1.3	.3	.9	.8	.8	2.1		2.3			
Connecticut	1.5		.7					3.4		.7			
Hawaii Territory	3.4												
Indiana		1.2	.4	.7		.4		.4			1.0		
Iowa		.5	1.5	1.9		1.5	.5				1.3		
Kansas	.6	.7	.6	.6		.6							
Kentucky	1.4	1.4	.9	.9	1.0	.5							
Louisiana	1.2	1.9				.7	1.2						
Michigan	1.3	.8	.8	1.3	.3	.8	.5	.5					
Minnesota	3.9	4.0			.9		.4	.9					
Mississippi	.7	.7			1.5	.7	1.4		2.0				
New Jersey	1.8	1.0			.3	.3	.6		.3				
New York ¹	3.6	2.0	.4	.4	.6	.7	2	.4		.6	1.3	.4	0.2
North Carolina	.4	1.7	.4		.4	1.6	1.2	.8					
Pennsylvania	.9	.6	1.1		.6	.6	.4		.5				
South Carolina	.6	.7			.6	.7	.6		1.3				
South Dakota	3.3	1.7	3.3	3.3	3.7						1.7		
Tennessee	1.9	1.5	4.2	.9	.5	.9	.5	1.9	1.5	.5	1.0		
Virginia	1.4	.5	1.8	.5		1.4	.9		.8	1.2			
Wisconsin		.4	.8		.4								

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
LETHARGIC ENCEPHALITIS, (23)													
Alabama	0.5	1.3	1.6	1.8	3.4	1.4	1.0	2.4	1.6	0.8			
California	1.3	1.6	1.8	1.7	3.2	2.2	1.5	1.4	1.1				
Connecticut	.7		.7										
Indiana				1.9	.8	1.1	1.5	.7	1.1				
Iowa	1.0	.5	1.9	2.4	1.6	2.4	1.0	1.5		2.4			
Kansas	1.3		3.2	.6		.6				.6			
Kentucky	.5	.5		.5	.5								
Louisiana	.6	.6	1.2								1.2		
Michigan	2.1	1.1	1.0	1.5	1.1	1.0	1.6	2.3	2.1				
Minnesota	2.2	1.3	3.0	3.5	2.2	2.2	1.8	1.7	4.0				
Mississippi	1.3					.7	.7	1.4	.7				
Nebraska			.9	.8									
New Jersey	1.8	1.3	.3	2.2	1.7	1.5	1.0	1.2	1.9				
New York ¹	.6	.4	1.1	1.2	.9	1.2	.7	.8		1.1	1.1	1.3	2.4
North Carolina	1.2	.8	.8	.4	1.8	.8	.4	.4					
Pennsylvania	.5	1.5	1.0	1.3	2.0	1.0	1.2	1.2			1.3		1.1
South Carolina	.6	2.0	.6	1.3	1.4	5.1	2.0	4.4					
South Dakota				1.7	1.7								
Tennessee	.5	.5	.5		1.0		1.5		.5		.5	1.0	
Virginia		.9		2.3	.5	1.4	2.4	.5	.9				
Wisconsin	2.0	1.2	.8	.4	2.2	2.0	1.6	2.8	2.5	1.6			
MENINGOCOCCUS MENINGITIS, (24)													
Alabama	0.5			1.4	3.9	1.5		0.5	0.9				
California	1.0	2.7	7.2	11.1	10.3	14.2	12.6	13.2		0.5			
Connecticut	2.2		2.2		2.4	3.6	.7	1.4		1.5			
Hawaii Territory	3.5	6.7	10.1	18.7	70.9	38.3	50.6	27.9	10.5				
Indiana	.8	1.5	1.1			1.1	1.9	3.0	1.9				
Iowa			1.5	2.4	3.8	2.9	2.0	1.5		1.0			
Kansas	.6	2.0	1.3	3.8	5.0	3.8				.6			
Louisiana			3.0	1.2	4.7	4.2				1.8			
Michigan	4.1	3.2	4.6	6.9	12.5	29.8	37.9	41.8	27.8				
Minnesota	1.3	.9	3.9	3.0	2.6	.4	2.2	1.7	1.3	.9			
Mississippi	.7		2.0	1.3	.7	.7	.7		.7				
Nebraska	3.5			.8									
New Jersey	1.5	1.9	3.1	3.4	2.4	2.5	2.2	4.6	2.2				
New York ¹	1.3	.2	.6	.6	1.8	1.0	2.1	1.4		1.1	0.9	0.7	0.2
North Carolina			.4			.4	.4	.4	1.2				
Pennsylvania	.5	1.1	1.3	1.7	2.8	3.1	2.2	3.4		1.6	.6	.7	.6
Rhode Island				1.6									
South Carolina	2.6	2.5	1.3	2.8	3.2	3.9	2.5						
South Dakota	1.7				3.7	10.0				1.7			
Tennessee	2.4	.5	2.8	1.9	1.0	3.0	3.4	1.9	1.5	.5	1.0		
Virginia		.9	.9	1.8	1.5	1.8	1.4	2.7	.9				
Wisconsin	3.6	3.7	3.6	.4	6.6	10.0	2.9	3.6	4.5	3.3			
TUBERCULOSIS, ALL FORMS, (31-37)													
Alabama (total)	74.3	80.6	73.0	76.6	83.6	80.5	91.8	88.1	81.3	97.7	96.0	100.7	
White	33.5	39.1	44.9	54.7	62.9	51.9	55.0	54.6	39.1	52.1	55.5	59.6	
Colored	141.1	158.0	125.3	129.2	134.2	146.4	159.4	167.4	159.4	182.6	167.2	173.9	
California	118.1	129.0	146.0	137.5	147.9	149.4	138.6	139.6		143.4			
Connecticut	63.5	53.5	66.4	66.0	77.1	88.2	64.5	66.0		71.5	77.9	87.6	87.7
Hawaii Territory	121.5	90.6	141.7	108.0	89.6	91.2	129.0	124.8	129.0	104.6			
Indiana	64.1	56.7	80.5	78.2	76.8	79.7	81.6	74.9	81.2	80.6	78.0	87.2	85.7
Iowa	24.7	31.1	38.8	34.9	38.7	35.4	40.6	37.3		45.6			
Kansas	37.2	39.1	35.9	39.1	50.4	41.1				49.4			
Kentucky	97.3	109.1	97.8	116.2	121.0	91.3				106.9			
Louisiana	55.5	77.4	85.7	128.0	91.6	92.4							
Michigan	58.2	64.1	69.2	80.0	72.1	72.3	80.6	85.7	71.3				
Minnesota	34.6	47.8	52.0	49.3	48.4	60.1	65.3	55.8	57.2	24.1			
Mississippi	54.6	80.2	90.1	84.2	72.1	96.0	98.5	91.4	95.8				
Nebraska	20.1	21.6	19.2	30.9									
New Jersey	73.6	63.7	65.9	76.4	84.3	84.7	84.7	76.1	70.1	87.2	77.2	78.4	84.2
New York ¹	71.8	67.2	67.1	84.8	82.2	76.3	80.6	82.3		82.5	93.4	93.8	109.6
North Carolina	60.9	69.2	84.2	91.0	91.0	89.4	102.7	91.0					
Pennsylvania	58.0	.55.5	67.3	79.6	69.4	66.7	68.8	69.6		79.9	80.2	89.5	86.4
Rhode Island				65.8									
South Carolina	74.6	85.9	94.7	64.4	65.0	77.7	71.2	87.8					
South Dakota	36.8	43.2	60.2	53.5	57.4	43.5				80.3			
Tennessee	106.8	118.2	145.9	140.7	145.9	139.3	146.9	133.2	140.5	129.8	144.4		
Virginia	84.1	71.3	88.3	116.1	85.6	84.1	93.6	96.9	78.4				
Wisconsin	42.3	47.8	48.6	44.3	47.7	63.8	72.9	47.8	63.4	60.1			

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928			1929					Corresponding month for—				
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
CANCER, ALL FORMS, (43-49)													
Alabama (total).....	52.3	54.0	50.5	33.1	45.9	41.3	45.0	48.2	54.7	55.0	54.3	56.7	.....
White.....	54.7	59.4	48.4	38.6	49.7	46.3	55.8	52.6	53.6	59.4	56.5	59.6	.....
Colored.....	47.5	43.6	54.1	27.7	30.7	38.2	40.9	39.6	55.9	43.3	50.3	51.6	.....
California.....	143.4	141.5	164.1	151.4	129.6	135.4	140.7	146.0	.....	148.3	.....	.....	.....
Connecticut.....	132.8	110.1	118.2	98.3	114.4	118.4	103.0	116.2	.....	84.6	101.7	98.9	117.8
Hawaii Territory.....	74.2	59.3	50.6	54.0	89.6	54.0	59.3	67.5	80.2	66.2	.....	.....	.....
Indiana.....	90.8	105.0	100.5	100.8	98.5	90.5	101.9	110.9	90.0	95.4	103.2	116.4	90.4
Iowa.....	112.0	112.2	121.2	97.5	116.0	114.0	112.7	109.1	.....	114.0	.....	.....	.....
Kansas.....	108.4	104.1	117.4	84.7	107.3	91.8	.....	.....	.....	104.6	.....	.....	.....
Kentucky.....	64.1	72.0	57.7	65.0	61.8	46.6	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	73.1	64.3	77.3	67.6	64.2	61.0	.....	.....	.....	56.2	.....	.....	.....
Michigan.....	92.6	92.0	96.4	100.3	96.0	96.9	98.3	89.0	86.7	.....	.....	.....	.....
Minnesota.....	104.7	100.1	110.7	109.9	84.8	112.9	112.2	98.6	96.5	110.0	.....	.....	.....
Mississippi.....	49.3	50.9	53.9	37.5	56.8	45.4	51.6	52.6	61.1	.....	.....	.....	.....
Nebraska.....	93.7	102.0	78.6	70.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	112.2	104.4	119.9	100.1	116.7	115.9	105.7	110.9	117.8	105.4	112.6	102.2	105.4
New York ¹	123.7	115.5	115.5	138.1	136.0	115.4	117.9	128.4	.....	121.8	130.7	123.1	119.5
Pennsylvania.....	96.0	100.7	94.4	102.1	99.8	101.4	96.6	98.0	.....	95.5	95.8	97.3	95.5
Rhode Island.....	.....	.....	.....	136.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	30.3	47.0	49.3	34.1	37.8	32.2	34.6	49.3	.....	.....	.....	.....	.....
South Dakota.....	55.2	76.0	87.0	53.5	63.0	51.8	.....	.....	.....	66.9	.....	.....	.....
Tennessee.....	50.8	54.0	66.4	49.4	59.9	57.4	63.2	53.6	56.9	56.9	73.4	.....	.....
Virginia.....	61.0	63.6	55.3	63.3	63.6	56.7	59.4	56.2	.....	.....	.....	.....	.....
Wisconsin.....	103.7	103.0	111.2	98.1	109.0	97.3	104.7	104.9	96.8	.....	.....	.....	.....
DIABETES, (57)													
Alabama (total).....	6.9	9.5	10.1	17.0	6.3	5.2	10.9	6.4	10.0	7.1	13.1	5.4	.....
White.....	8.4	9.4	11.9	18.9	8.5	4.9	12.3	5.6	12.3	7.2	12.8	5.3	.....
Colored.....	4.0	9.5	6.5	15.8	2.9	6.6	8.2	7.9	5.4	6.8	13.6	5.4	.....
California.....	16.3	24.8	33.3	28.9	28.9	25.6	21.4	18.1	.....	21.4	.....	.....	.....
Connecticut.....	18.2	15.8	14.6	15.8	23.8	21.5	14.1	17.2	.....	16.1	.....	.....	.....
Hawaii Territory.....	13.5	7.0	6.7	13.5	3.7	10.1	13.9	16.9	17.4	10.5	.....	.....	.....
Indiana.....	16.3	10.7	14.8	17.8	14.8	16.7	13.8	14.1	11.9	.....	.....	.....	.....
Iowa.....	20.4	17.0	29.6	29.1	18.3	16.0	18.0	21.3	.....	19.4	.....	.....	.....
Kansas.....	10.3	15.3	38.5	30.2	22.0	22.5	.....	.....	.....	28.9	.....	.....	.....
Kentucky.....	9.2	10.0	10.2	12.9	10.2	11.1	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	15.1	11.9	12.7	15.7	15.4	17.5	.....	.....	.....	19.3	.....	.....	.....
Michigan.....	20.5	19.6	26.4	26.4	21.9	22.8	21.2	23.3	19.3	.....	.....	.....	.....
Minnesota.....	13.4	21.9	26.0	26.0	28.1	18.6	21.2	13.9	14.7	15.2	15.2	.....	.....
Mississippi.....	6.6	3.4	14.5	11.8	5.8	10.5	6.8	7.2	2.0	.....	.....	.....	.....
Nebraska.....	15.1	22.5	40.1	26.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	21.3	23.9	26.2	33.9	27.0	22.8	24.5	22.2	22.6	.....	.....	.....	.....
New York ¹	25.0	20.4	28.2	41.6	29.8	28.1	22.9	27.1	.....	28.6	28.1	19.6	26.6
Pennsylvania.....	20.8	21.3	26.2	31.7	26.2	22.5	23.4	21.8	.....	23.2	19.1	16.5	19.5
Rhode Island.....	.....	.....	.....	24.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	5.7	6.5	17.7	7.0	11.2	8.8	5.2	7.6	.....	.....	.....	.....	.....
South Dakota.....	25.1	10.4	31.8	28.4	11.1	28.4	.....	.....	.....	25.1	.....	.....	.....
Tennessee.....	7.5	13.6	8.5	11.8	10.4	12.2	9.2	10.4	9.2	6.8	.....	.....	.....
Virginia.....	.....	9.0	13.3	19.7	8.6	7.8	10.9	7.8	7.1	.....	.....	.....	.....
DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE, (70-86)													
Alabama (total).....	87.9	106.4	109.4	92.4	95.8	100.7	108.3	111.2	97.9	.....	.....	.....	.....
White.....	72.9	89.1	100.9	80.6	86.9	95.3	97.0	99.5	79.7	.....	.....	.....	.....
Colored.....	116.0	139.0	125.3	114.7	112.4	110.8	129.4	133.2	132.2	.....	.....	.....	.....
California.....	137.7	154.1	181.2	161.8	150.8	142.4	143.4	125.6	.....	141.1	.....	.....	.....
Iowa.....	130.0	130.8	144.0	143.5	170.2	141.1	144.3	134.3	.....	142.6	.....	.....	.....
Kansas.....	136.3	161.8	215.0	154.6	162.0	170.0	.....	.....	.....	173.2	.....	.....	.....
Kentucky.....	103.3	117.7	107.5	122.2	112.3	98.7	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	75.5	106.1	122.6	115.3	105.6	89.4	.....	.....	.....	101.4	.....	.....	.....
Michigan.....	124.1	126.4	161.8	174.1	142.5	151.8	138.6	145.2	126.1	.....	.....	.....	.....
Minnesota.....	88.2	80.9	99.9	100.4	95.6	112.5	99.7	100.8	82.2	.....	.....	.....	.....
Nebraska.....	102.0	102.8	117.9	122.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	110.9	113.7	118.9	147.6	131.0	132.2	128.3	112.5	96.5	110.8	126.9	111.7	132.8
New York ¹	139.3	136.6	148.4	124.2	175.4	170.0	150.4	100.3	.....	159.9	150.4	160.6	205.9
Pennsylvania.....	115.4	119.8	129.1	153.4	135.5	131.4	122.4	119.6	.....	.....	.....	.....	.....
Rhode Island.....	.....	.....	.....	182.5	.....	.....	.....	.....	.....	90.3	.....	.....	.....
South Dakota.....	88.6	82.9	130.5	60.2	103.7	98.7	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	.....	.....	.....	105.9	104.7	117.2	103.6	106.4	104.1	.....	.....	.....	.....
Virginia.....	106.8	119.8	155.9	142.8	123.9	125.7	108.4	108.7	.....	.....	.....	.....	.....

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1923	1927	1926	1925
CEREBRAL HEMORRHAGE, APOPLEXY, (74)													
Alabama (total).....	55.1	58.8	65.6	50.9	55.1	53.9	63.7	68.4	56.6	56.4	56.7	45.0	.....
White.....	39.2	51.4	65.9	45.6	52.8	57.5	54.3	58.9	44.9	49.2	48.9	38.2	.....
Colored.....	83.1	72.2	63.3	68.6	65.7	55.4	79.0	84.4	76.3	69.5	70.7	57.0	.....
California.....	94.1	112.2	128.7	113.5	105.6	97.7	100.9	91.7	.....	100.5	.....	.....	.....
Hawaii Territory.....	84.3	76.7	67.5	60.7	79.0	40.5	48.8	50.6	45.3	73.2	.....	.....	.....
Indiana.....	96.4	109.6	140.1	138.7	126.0	120.1	104.2	107.1	106.5	95.4	106.2	116.4	90.4
Iowa.....	92.6	95.7	106.2	102.8	125.6	92.6	108.7	98.4	.....	105.7	.....	.....	.....
Kansas.....	106.5	131.3	165.5	127.0	132.1	133.5	.....	.....	.....	141.8	.....	.....	.....
Kentucky.....	53.5	66.7	60.9	70.1	66.9	58.1	.....	.....	.....	74.9	.....	.....	.....
Louisiana.....	53.1	73.6	84.5	77.9	64.8	54.3	.....	.....	.....	.....	.....	.....	.....
Michigan.....	92.3	87.5	115.2	122.1	99.1	112.1	100.2	102.3	89.6	.....	.....	.....	.....
Minnesota.....	67.5	63.0	74.4	81.3	69.6	84.4	71.5	77.9	63.0	.....	.....	.....	.....
Mississippi.....	61.8	66.6	73.0	80.9	78.6	69.7	64.5	77.6	63.2	.....	.....	.....	.....
Nebraska.....	81.1	71.7	86.1	101.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	80.7	86.0	90.3	107.5	98.9	97.4	90.1	85.1	67.2	.....	.....	.....	.....
New York ¹	104.4	107.2	113.2	158.2	138.5	126.8	115.6	120.8	.....	124.6	112.9	115.5	153.4
Pennsylvania.....	80.7	92.0	94.9	112.6	98.1	92.7	88.4	87.5	.....	.....	.....	.....	.....
Rhode Island.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	56.9	51.9	78.6	43.5	59.3	60.2	.....	.....	.....	60.2	.....	.....	.....
Tennessee.....	.....	.....	.....	58.4	60.4	59.8	55.9	69.6	69.3	.....	.....	.....	.....
Virginia.....	70.9	82.8	108.8	102.3	90.5	90.3	71.3	78.4	.....	.....	.....	.....	.....
DISEASES OF THE CIRCULATORY SYSTEM, (87-96)													
Alabama (total).....	133.6	150.8	151.5	153.8	142.9	132.7	141.4	149.2	134.3	.....	.....	.....	.....
White.....	113.5	124.6	128.3	136.0	120.3	110.7	119.5	113.5	107.9	.....	.....	.....	.....
Colored.....	171.4	200.3	195.1	187.2	185.4	174.1	182.6	216.2	183.9	.....	.....	.....	.....
California.....	293.8	387.8	496.7	427.7	383.4	372.4	360.2	335.7	.....	290.0	.....	.....	.....
Iowa.....	224.0	234.0	329.8	313.8	287.2	268.2	282.6	271.6	.....	238.1	.....	.....	.....
Kansas.....	168.8	193.6	277.2	232.3	216.7	198.3	.....	.....	.....	250.9	.....	.....	.....
Kentucky.....	155.4	202.5	192.3	232.4	193.5	191.9	.....	.....	.....	215.6	.....	.....	.....
Louisiana.....	193.8	202.2	274.1	307.9	242.0	213.7	.....	.....	.....	.....	.....	.....	.....
Michigan.....	240.3	241.7	345.2	347.3	273.2	276.7	266.3	278.5	245.4	.....	.....	.....	.....
Minnesota.....	172.2	194.4	269.5	253.9	185.6	191.6	178.8	189.5	176.1	.....	.....	.....	.....
Nebraska.....	178.1	188.4	243.3	217.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	250.8	254.7	307.2	391.3	344.9	305.4	297.4	258.5	255.1	231.2	210.3	208.6	247.1
New York ¹	335.4	358.2	384.7	545.9	441.9	382.3	369.3	341.2	324.0	379.4	345.8	355.1	350.9
Pennsylvania.....	236.1	243.2	330.2	369.3	298.7	278.4	259.7	248.0	.....	.....	.....	.....	.....
Rhode Island.....	.....	.....	.....	347.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	263.4	284.6	384.1	262.1	292.3	291.2	269.6	296.9	.....	.....	.....	.....	.....
South Dakota.....	120.4	160.7	224.1	162.2	150.0	155.5	.....	.....	.....	182.3	.....	.....	.....
Tennessee.....	.....	.....	.....	162.8	159.4	160.0	136.6	149.2	149.8	.....	.....	.....	.....
Virginia.....	156.4	204.4	212.8	217.7	218.6	164.4	185.2	174.3	.....	.....	.....	.....	.....
DISEASES OF THE HEART, (87-90)													
Alabama (total).....	121.6	138.9	140.9	138.3	125.6	117.9	132.6	140.4	125.0	135.6	100.8	104.6	.....
White.....	103.0	115.2	115.6	129.7	108.6	103.0	110.8	105.1	96.3	109.4	76.8	83.2	.....
Colored.....	155.6	182.6	187.2	175.4	175.2	163.5	171.7	205.7	177.1	183.9	144.1	142.6	.....
California.....	245.5	344.5	442.4	372.4	338.2	329.2	317.0	299.0	.....	255.6	.....	.....	.....
Connecticut.....	156.8	198.3	196.3	251.2	219.2	212.4	194.3	190.9	190.1	101.4	187.0	166.2	169.3
Hawaii Territory.....	114.7	108.1	108.0	114.7	141.9	138.5	142.5	141.7	118.5	132.5	.....	.....	.....
Indiana.....	201.7	204.6	269.5	230.6	197.8	243.2	199.2	228.0	222.2	172.0	171.9	148.0	153.3
Iowa.....	190.6	209.5	292.9	281.3	254.0	233.7	251.1	239.6	.....	215.8	.....	.....	.....
Kansas.....	145.0	171.1	249.0	207.3	185.4	173.9	.....	.....	.....	215.6	.....	.....	.....
Kentucky.....	144.8	154.4	168.3	194.6	158.3	160.0	.....	.....	.....	201.7	.....	.....	.....
Louisiana.....	181.7	187.8	266.2	290.4	221.3	193.8	.....	.....	.....	.....	.....	.....	.....
Michigan.....	215.4	205.7	299.3	347.3	235.7	240.8	238.5	240.0	218.1	.....	.....	.....	.....
Minnesota.....	144.5	157.8	231.4	208.9	150.5	147.5	100.1	152.7	136.8	130.1	.....	.....	.....
Mississippi.....	88.7	89.7	99.3	105.9	112.8	99.3	106.7	111.8	108.0	.....	.....	.....	.....
Nebraska.....	153.9	181.5	223.3	194.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	229.0	233.7	278.0	361.5	324.4	277.6	276.1	236.0	226.7	.....	.....	.....	.....
New York ¹	291.3	312.0	297.1	483.7	391.7	338.9	322.0	292.6	.....	324.3	292.2	306.4	303.7
Pennsylvania.....	214.0	222.0	301.8	336.9	273.9	248.8	232.3	221.3	.....	233.0	217.0	229.0	180.0
Rhode Island.....	.....	.....	.....	304.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	75.3	138.3	204.0	153.9	129.6	138.8	.....	.....	.....	163.9	.....	.....	.....
Tennessee.....	126.1	123.5	158.6	149.2	148.0	150.1	125.0	137.9	135.7	127.9	.....	.....	.....
Virginia.....	143.6	188.4	220.4	193.4	202.6	149.3	171.0	156.4	.....	.....	.....	.....	.....

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928						1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925			
DISEASES OF THE RESPIRATORY SYSTEM, (97-107)																
Alabama (total).....	65.4	111.1	141.4	287.8	123.1	125.4	102.6	84.7	61.0							
White.....	59.6	91.3	114.2	236.9	100.9	114.9	84.7	63.1	48.5							
Colored.....	76.5	148.5	192.5	383.7	165.0	145.1	136.2	125.3	84.5							
California.....	92.6	150.2	216.6	143.4	152.2	167.2	139.1	98.5								84.8
Iowa.....	61.6	67.6	159.5	174.1	112.7	91.2	82.2	71.3								91.2
Kansas.....	38.5	61.0	185.4	105.2	135.0	141.2										75.1
Kentucky.....	85.8	130.1	152.7	311.8	197.6	134.2										
Louisiana.....	74.9	102.9	185.4	232.5	126.3	129.2										173.3
Michigan.....	76.2	107.9	219.8	253.9	155.5	147.0	130.1	121.8	87.5							
Minnesota.....	56.2	78.2	153.1	163.9	74.8	83.1	74.2	71.8	49.2							
Nebraska.....	53.5	83.0	194.8	138.0												
New Jersey.....	78.3	95.8	486.9	357.5	203.0	174.1	116.9	101.4	62.7							
New York ¹	82.5	104.4	145.8	332.7	185.4	152.6	134.2	109.2								138.7
Pennsylvania.....	88.9	112.7	254.2	316.7	184.2	164.4	117.6	99.1								127.0
Rhode Island.....				353.6												
South Dakota.....	68.6	69.1	145.5	162.2	98.1	92.0										117.1
Tennessee.....				234.4	157.3	156.7	97.7	74.8	50.1							
Virginia.....		77.5	113.9	145.0	132.6	119.8	79.9	71.8	41.6							
PNEUMONIA, ALL FORMS, (100, 101)																
Alabama (total).....	54.1	99.6	131.2	261.9	111.6	110.5	97.9	79.8	53.4	56.0	33.9	62.1				
White.....	46.3	81.1	104.4	227.1	93.9	70.2	80.4	60.3	41.3	48.5	21.8	45.8				
Colored.....	68.6	133.5	180.6	366.5	160.6	133.2	129.4	116.0	76.3	69.5	55.7	91.0				
California.....	78.0	139.9	190.5	123.5	135.6	152.5	119.4	83.0		74.7						
Connecticut.....	73.7	71.6	118.9	254.7	232.0	142.8	104.5	86.8		183.1	86.1	122.3	81.6			
Hawaii Territory.....	134.9	97.6	141.7	145.1	254.0	158.7	217.5	202.4	139.4	125.5						
Indiana.....	61.5	80.1	232.3	270.3	169.5	137.9	83.5	85.6	50.2	58.0	52.5	58.4	47.6			
Iowa.....	50.4	60.6	145.0	155.2	96.1	77.6	71.7	40.2		80.5						
Kansas.....	30.2	50.4	159.1	93.0	113.0	125.8				56.5						
Kentucky.....	78.4	108.2	132.4	285.9	180.3	116.7										
Louisiana.....	60.4	88.6	170.3	215.0	111.6	118.3				160.0						
Michigan.....	61.3	90.1	190.3	224.7	135.5	125.2	114.2	105.7	73.4							
Minnesota.....	51.0	70.2	147.8	156.2	71.4	72.2	68.4	65.3	39.8	47.8						
Mississippi.....	28.9	76.8	142.0	191.4	107.0	110.4	63.2	50.6	26.5							
Nebraska.....	43.5	76.0	179.0	119.6												
New Jersey.....	68.4	83.7	160.5	326.9	187.3	153.8	99.4	91.2	51.6	52.2	40.9	43.0	43.6			
New York ¹	65.9	89.4	128.5	297.6	165.8	135.6	116.7	92.4		126.3	93.6	107.8	122.7			
North Carolina.....	48.9	78.7	151.9	185.2	177.2	130.2	113.5	81.0								
Pennsylvania.....	72.8	97.1	228.6	285.1	162.0	142.8	97.7	85.0		156.0	99.2	138.0	115.0			
Rhode Island.....				317.4												
South Carolina.....	58.7	95.9	164.2	140.2	125.5	130.1	90.7	77.1								
South Dakota.....	45.2	60.5	117.1	142.2	77.8	85.3				100.3						
Tennessee.....	59.3	91.9	122.4	215.1	146.4	140.7	86.6	66.4	39.4	61.3	49.0					
Virginia.....	64.3	98.3	131.2	120.5	104.7	68.0	60.4	36.9								
Wisconsin.....	58.2	79.1	164.3	161.9	120.5	88.9	84.5	78.9	49.0	99.7						
DISEASES OF THE DIGESTIVE SYSTEM, (108-127)																
Alabama (total).....	91.5	67.1	67.7	54.5	51.2	155.6	61.9	106.2	147.5							
White.....	94.6	72.4	66.6	47.7	46.6	141.6	46.3	101.6	143.4							
Colored.....	85.7	57.2	69.9	67.2	59.9	182.0	91.3	114.7	155.3							
California.....	100.8	105.0	103.6	86.3	85.6	91.2	94.5	92.0		99.5						
Hawaii Territory.....	124.8	122.0	145.1	227.7	186.8	209.2	198.7	182.2	174.3	115.0						
Iowa.....	76.1	64.6	62.6	52.9	58.0	73.7	66.6	62.1		61.1						
Kansas.....	95.1	76.9	80.2	67.4	63.9	73.1				78.3						
Kentucky.....	107.5	89.6	67.2	53.0	52.1	55.3										
Louisiana.....	93.6	87.4	80.3	70.0	78.2	80.9				75.5						
Michigan.....	94.6	84.5	90.8	84.4	92.2	82.8	80.6	90.5	89.0							
Minnesota.....	64.4	57.7	58.4	56.7	59.3	62.3	63.5	67.9	59.0							
Nebraska.....	59.4	65.7	60.2	72.8												
New Jersey.....	78.6	68.5	74.6	72.7	61.1	86.3	76.1	75.8	73.6	66.6	71.8	73.7	93.3			
New York ¹	73.7	72.4	73.0	70.9	71.9	74.2	69.9	71.5		79.5	80.8	91.2	84.2			
Pennsylvania.....	86.4	73.8	72.2	73.3	74.8	73.6	75.0	61.4								
Rhode Island.....				88.8												
South Dakota.....	61.9	70.9	87.0	46.8	72.2	68.6				70.2						
Tennessee.....		48.7	51.7	35.7	48.1	55.8	52.0	60.4	102.5							
Virginia.....																

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

State	1928			1929						Corresponding month for—			
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	1928	1927	1926	1925
DIARRHEA AND ENTERITIS UNDER 2 YEARS, (113)													
Alabama (total).....	30.7	13.7	13.3	3.9	5.8	7.0	12.4	40.8	64.8	71.6	69.3	90.4	.....
White.....	37.1	16.7	13.3	2.8	3.9	10.5	5.8	38.5	65.9	77.5	71.5	97.0	.....
Colored.....	18.5	8.2	12.6	6.6	10.2	1.3	24.5	44.9	62.7	59.9	65.3	78.8	.....
California.....	19.6	15.0	18.9	9.6	9.2	8.5	11.2	17.6	.....	22.2	.....	.....	.....
Connecticut.....	8.8	4.5	3.6	5.0	15.9	5.7	5.2	11.5	.....	4.4	5.9	11.3	6.9
Hawaii Territory.....	74.2	59.3	104.6	145.1	104.6	141.7	129.0	111.3	97.6	59.3	7.3	7.0	7.8
Indiana.....	28.2	12.6	5.2	8.2	6.6	11.9	5.7	7.4	10.3	.....	3.4	.....	13.7
Iowa.....	12.1	4.5	1.9	5.8	1.1	2.9	4.5	2.9	.....	9.6	.....	.....	.....
Kansas.....	20.5	12.6	8.3	7.7	5.7	12.2	.....	.....	.....	.....	.....	.....	.....
Kentucky.....	60.0	34.3	12.5	8.3	8.2	8.3	.....	.....	.....	11.5	.....	.....	.....
Louisiana.....	24.8	23.7	3.0	13.9	19.4	26.0	.....	.....	.....	.....	.....	.....	.....
Michigan.....	25.9	15.1	13.3	11.8	19.2	9.0	11.1	12.6	11.4	.....	.....	.....	.....
Minnesota.....	6.1	4.9	3.0	2.6	4.3	4.3	3.6	3.9	3.1	.....	.....	.....	.....
Mississippi.....	22.4	12.2	8.5	2.6	4.4	7.2	12.2	32.9	55.0	.....	.....	.....	.....
Nebraska.....	10.0	2.6	3.3	5.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	16.9	14.0	12.6	11.1	7.2	10.2	10.5	7.7	6.4	10.2	16.6	14.5	26.0
New York ¹	15.2	10.0	7.4	9.9	9.6	9.5	7.9	8.7	.....	10.9	13.1	18.3	16.0
North Carolina.....	30.9	26.1	30.1	10.4	10.2	4.0	11.2	38.5	.....	.....	16.5	15.4	19.0
Pennsylvania.....	30.0	15.8	15.9	15.1	14.0	15.2	12.3	10.2	.....	.....	.....	.....	20.6
South Dakota.....	13.4	12.1	8.4	1.7	5.6	6.7	.....	.....	.....	11.7	.....	.....	.....
Tennessee.....	35.8	19.9	18.4	3.2	3.6	8.9	6.8	10.4	38.9	59.8	83.7	.....	.....
Virginia.....	22.9	9.0	7.3	3.7	5.6	5.5	3.3	12.3	37.3	.....	.....	.....	.....
Wisconsin.....	8.4	4.5	13.6	8.8	15.9	14.4	11.9	14.8	9.5	9.5	.....	.....	.....
NEPHRITIS, (128-129)													
Alabama (total).....	85.6	100.2	98.8	85.1	85.6	95.2	91.7	104.3	96.9	.....	.....	.....	.....
White.....	65.2	75.3	91.8	72.2	78.5	79.7	80.6	71.0	.....	.....	.....	.....	.....
Colored.....	123.9	147.1	112.1	109.4	103.6	126.6	114.4	149.0	145.8	109.6	.....	.....	.....
California.....	96.1	130.1	142.7	119.4	128.5	106.5	128.2	106.7	.....	84.6	.....	.....	.....
Connecticut.....	60.5	67.1	61.3	81.1	100.9	67.4	68.2	116.2	.....	.....	.....	.....	.....
Hawaii Territory ⁽¹²⁹⁾	40.5	66.2	64.0	87.7	48.6	81.0	73.2	50.6	76.7	83.7	.....	.....	74.7
Indiana.....	75.6	82.7	96.4	81.6	85.4	100.1	95.0	92.7	74.3	76.1	96.6	97.4	.....
Iowa.....	52.4	46.6	56.3	53.8	56.9	60.1	61.6	56.7	.....	52.4	.....	.....	.....
Kansas.....	93.7	108.7	12.0	105.9	104.4	98.8	.....	.....	.....	112.9	.....	.....	.....
Kentucky.....	96.4	84.5	86.7	104.2	84.8	68.7	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	117.1	124.2	138.9	116.5	131.7	111.1	.....	.....	.....	123.2	.....	.....	.....
Michigan.....	68.2	74.7	82.3	82.1	75.4	74.9	73.4	67.4	72.6	.....	.....	.....	38.0
Minnesota.....	52.8	39.3	71.4	71.8	56.2	56.7	54.1	49.7	48.7	.....	.....	.....	.....
Mississippi.....	112.4	95.1	117.7	102.6	115.0	107.8	112.1	70.3	117.5	.....	.....	.....	.....
Nebraska.....	46.8	53.6	57.7	60.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	91.5	101.3	118.9	137.7	125.5	110.6	104.4	102.6	101.3	98.7	92.5	83.3	92.3
New York ¹	100.6	99.6	116.6	137.5	129.1	122.2	124.1	111.0	.....	121.4	126.2	131.8	119.5
Pennsylvania.....	99.9	109.3	125.6	143.3	112.5	109.8	102.3	105.8	.....	125.0	110.0	114.0	106.0
Rhode Island.....	.....	.....	.....	141.4	.....	.....	.....	.....	.....	45.2	.....	.....	.....
South Dakota.....	25.1	25.9	63.6	36.8	27.8	36.8	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	.....	.....	.....	77.2	65.1	78.6	77.3	69.2	71.0	.....	.....	.....	.....
Virginia.....	94.5	112.0	104.7	107.8	109.3	89.8	74.1	91.7	.....	.....	.....	.....	.....
PUERPERAL STATE, (143-150)													
Alabama (total).....	21.1	14.7	16.5	15.6	17.4	13.9	23.8	23.9	29.0	21.8	21.3	19.1	.....
White.....	19.6	13.0	14.0	14.7	14.0	13.3	17.4	19.6	20.3	16.7	16.6	12.2	.....
Colored.....	23.7	17.7	21.1	19.8	26.3	17.1	35.4	31.6	45.0	31.3	29.9	31.2	.....
California.....	8.0	7.7	14.2	10.1	6.0	9.3	12.8	10.3	.....	10.3	.....	.....	.....
Connecticut ⁽¹⁴³⁻¹⁴⁹⁾	9.5	6.0	8.8	6.5	16.7	10.0	4.4	5.0	.....	8.8	10.4	9.8	13.1
Hawaii Territory ⁽¹⁴⁶⁾	7.0	6.7	6.7	7.5	.....	.....	.....	.....	10.8	12.0	12.1	15.7
Indiana.....	9.3	10.3	8.9	16.7	9.9	15.9	10.7	12.2	15.3	.....	.....	.....	.....
Iowa.....	12.1	3.5	9.7	14.1	9.7	13.1	10.5	8.2	.....	10.7	.....	.....	.....
Kansas.....	9.6	12.0	13.5	10.3	10.7	14.8	.....	.....	.....	17.3	.....	.....	.....
Kentucky.....	11.5	8.6	11.1	15.2	11.7	12.9	.....	.....	.....	27.2	.....	.....	.....
Louisiana.....	30.8	20.0	24.2	24.2	11.4	22.9	.....	.....	.....	8.0	.....	.....	.....
Michigan.....	9.7	10.0	12.3	11.8	14.2	17.2	17.2	11.0	13.5	.....	.....	.....	.....
Minnesota.....	5.6	4.0	8.7	9.1	8.7	9.1	8.5	5.2	7.2	.....	.....	.....	.....
Mississippi.....	18.4	16.3	22.4	13.2	16.0	25.6	22.4	19.0	21.7	.....	.....	.....	.....
Nebraska.....	10.9	7.8	9.2	15.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	12.6	14.5	8.0	10.2	8.9	10.2	10.5	10.2	8.9	.....	.....	.....	.....
New York ¹	7.6	8.7	10.1	11.0	11.4	12.4	4.1	11.2	.....	12.8	10.9	12.7	11.6
Rhode Island.....	.....	.....	.....	4.9	.....	.....	.....	.....	.....	8.4	.....	3.9	.....
South Dakota.....	1.7	12.0	10.0	13.4	14.8	13.4	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	.....	.....	.....	18.4	12.5	17.4	20.9	16.0	8.3	4.4	3.9	.....	.....
Virginia.....	14.2	18.3	15.1	16.2	13.3	15.1	17.8	13.7	.....	.....	.....	.....	.....

¹ Exclusive of New York City.

DEATHS DURING WEEK ENDED AUGUST 31, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended August 31, 1929, and corresponding week of 1928. (From the Weekly Health Index, September 5, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week ended Aug. 31, 1929	Corresponding week, 1928
Policies in force-----	74, 328, 646	71, 633, 759
Number of death claims-----	11, 946	12, 174
Death claims per 1,000 policies in force, annual rate-----	8.4	8.9

Deaths from all causes in certain large cities of the United States during the week ended August 31, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, September 5, 1929, issued by the Bureau of the Census, Department of Commerce)

City	Week ended Aug. 31, 1929		Annual death rate per 1,000, corresponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Aug. 31, 1929?
	Total deaths	Death rate ¹		Week ended Aug. 31, 1929	Corresponding week, 1928	
Total (63 cities)-----	6,025	10.7	11.1	658	740	8.57
Akron-----	36			6	1	62
Albany ⁴ -----	28	12.2	16.1	3	2	59
Atlanta-----	45	9.2	10.0	3	9	31
White-----	19			1	5	
Colored-----	26	(*)	(*)	2	4	
Baltimore ⁴ -----	183	11.5	12.3	21	37	67
White-----	131			16	26	64
Colored-----	52	(*)	(*)	5	11	79
Birmingham-----	85	20.0	15.3	11	13	100
White-----	41			5	5	75
Colored-----	44	(*)	(*)	6	8	137
Boston-----	182	11.9	11.9	24	22	66
Bridgeport-----	30			3	1	52
Buffalo-----	138	13.0	11.6	16	18	69
Cambridge-----	22	9.1	11.2	3	3	54
Camden-----	29	11.2	12.0	5	5	86
Canton-----	24	10.7	10.3	2	3	47
Chicago ⁴ -----	600	9.9	10.6	76	72	68
Cincinnati-----	123			17	15	99
Cleveland-----	155	8.0	9.1	20	17	59
Columbus-----	39	6.8	13.3	6	11	56
Dallas-----	36	8.6	15.6	6	8	
White-----	25			4	7	
Colored-----	11	(*)	(*)	2	1	
Dayton-----	28	7.9	8.8	4	7	63
Denver-----	76	13.5	14.9	7	11	68
Des Moines-----	22	7.6	6.9	1	2	18
Detroit-----	275	10.4	10.5	45	43	72
Duluth-----	22	9.8	7.2	3	5	72
El Paso-----	31	13.8	11.5	6	4	
Eric-----	17			3	3	61
Fall River ⁴ -----	18	7.0	9.7	0	2	0
Flint-----	27	9.5	14.1	6	6	73
Fort Worth-----	30	9.2	10.4	4	6	
White-----	27			4	5	
Colored-----	3	(*)	(*)	0	1	
Grand Rapids-----	30	9.6	10.2	5	4	76
Houston-----	60			11	9	
White-----	38			8	8	
Colored-----	22	(*)	(*)	3	1	
Indianapolis-----	80	10.9	13.1	8	15	64
White-----	68			7	15	65
Colored-----	12	(*)	(*)	1	0	60
Kansas City, Kans.-----	33	14.6	13.3	0	2	0
White-----	27			0	2	0
Colored-----	6	(*)	(*)	0	0	0
Kansas City, Mo.-----	90	12.0	9.1	8	10	67
White-----	15	7.4	15.9	3	2	68
Colored-----	12			2	1	49
	3	(*)	(*)	1	1	211

Footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended August 31, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued

City	Week ended Aug. 31, 1929		Annual death rate per 1,000, corre- sponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Aug. 31, 1929 ²
	Total deaths	Death rate ¹		Week ended Aug. 31, 1929	Corre- sponding week, 1928	
Los Angeles.....	187			10	16	29
Louisville.....	79	12.5	15.2	8	27	65
White.....	63			6	20	56
Colored.....	16	(*)	(*)	2	7	126
Lowell.....	13				2	45
Lynn.....	15	7.4	8.4	2	3	55
Memphis.....	67	18.4	18.7	9	6	106
White.....	29			6	2	114
Colored.....	38	(*)	(*)	3	4	94
Milwaukee.....	101	9.7	8.6	11	22	48
Minneapolis.....	71	8.1	8.5	4	7	25
Nashville.....	44	16.5	17.2	8	5	129
White.....	28			7	4	152
Colored.....	16	(*)	(*)	1	1	63
New Bedford.....	25			2	3	43
New Haven.....	58	16.1	8.6	1	1	15
New Orleans.....	130	15.8	14.4	18	10	89
White.....	75			11	3	78
Colored.....	55	(*)	(*)	7	7	118
New York.....	1,157	10.1	11.1	119	147	49
Bronx Borough.....	150	8.2	8.3	10	16	30
Brooklyn Borough.....	399	9.0	9.4	48	54	49
Manhattan Borough.....	431	12.9	15.5	45	61	55
Queens Borough.....	130	8.0	8.2	8	11	33
Richmond Borough.....	47	16.3	19.1	8	5	145
Newark, N. J.....	89	9.8	7.9	8	6	42
Oakland.....	57	10.9	10.1	5	1	55
Oklahoma City.....	24			3	6	60
Omaha.....	56	13.1	11.5	4	1	47
Paterson.....	22	7.9	9.7	5	3	88
Philadelphia.....	407	10.3	11.1	39	58	55
Pittsburgh.....	160	12.4	12.3	17	10	58
Portland, Oreg.....	68			0	2	0
Providence.....	61	11.1	8.2	5	8	44
Richmond.....	41	11.0	12.9	3	10	42
White.....	23			2	2	42
Colored.....	18	(*)	(*)	1	8	41
Rochester.....	64	10.2	9.7	8	2	68
St. Louis.....	205	12.6	12.0	16	16	54
St. Paul.....	49			4	1	41
Salt Lake City.....	28	10.6	9.5	2	4	31
San Antonio.....	52	12.5	15.8	11	10	—
San Diego.....	33			2	1	38
San Francisco.....	161	14.4	12.0	4	5	25
Schenectady.....	28	15.7	9.5	2	1	64
Seattle.....	72	9.8	8.3	4	0	42
Somerville.....	13	6.6	8.7	1	2	36
Spokane.....	17	8.1	7.2	0	0	0
Springfield, Mass.....	30	10.5	10.5	5	2	83
Syracuse.....	43	11.3	11.5	9	4	108
Toledo.....	70	11.7	10.9	8	4	75
Trenton.....	31	11.7	10.9	3	4	54
Utica.....	25	12.5	10.0	1	2	25
Washington, D. C.....	117	11.1	10.5	13	7	76
White.....	68			4	1	34
Colored.....	49	(*)	(*)	9	6	170
Waterbury.....	10			0	0	0
Wilmington, Del.....	19	7.7	14.2	1	0	26
Worcester.....	40	10.6	9.6	3	5	38
Yonkers.....	18	7.8	7.8	1	2	23
Youngstown.....	34	10.2	9.0	4	6	57

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

Data for 71 cities.

Deaths for week ended Friday.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; 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 August 31, 1929, and September 1, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended August 31, 1929, and September 1, 1928

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928
New England States:								
Maine.....	2	2	3	-----	17	53	0	0
New Hampshire.....		2				2	0	0
Vermont.....					2	1	0	0
Massachusetts.....	34	34		5	28	42	1	1
Rhode Island.....	3	3				25	0	0
Connecticut.....	11	10	2	5	1	13	2	2
Middle Atlantic States:								
New York.....	100	102	13	14	59	88	10	29
New Jersey.....	65	52	2	2	7	32	3	7
Pennsylvania.....	79	105			75	91	13	7
East North Central States:								
Ohio.....	46	51	14	7	32	61	5	3
Indiana.....	17	7		1	3	6	2	0
Illinois.....	97	68	13	4	40	24	0	4
Michigan.....	33	39		1	30	29	3	3
Wisconsin.....	12		16	4	29	4	1	1
West North Central States:								
Minnesota.....	8	16	8		5	4	2	2
Iowa.....	4	3			4		2	2
Missouri.....	11	49		1	18	3	8	2
North Dakota.....	5	6	3		6		1	0
South Dakota.....	2					10	0	0
Nebraska.....	3					13	1	0
Kansas.....	10	5		1	10	6	1	0
South Atlantic States:								
Delaware.....							0	0
Maryland ¹	16	12	2	3	3	15	1	1
District of Columbia.....	11	12			2		0	0
Virginia.....								
West Virginia.....	8	3			1	4	3	0
North Carolina.....	117	49			1	34	3	2
South Carolina.....	40	46	180	281			10	0
Georgia.....	26	14	17	120	5	4	6	1
Florida.....	24	8		12	1			0

¹ New York City only.

² Week ended Friday.

*Cases of certain communicable diseases reported by telegraph by State health officers
for weeks ended August 31, 1929, and September 1, 1928—Continued*

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928
East South Central States:								
Kentucky		5					0	0
Tennessee	28	8	16	7	5		1	0
Alabama	49	25	7	81	19	7	0	2
Mississippi	30	6						
West South Central States:								
Arkansas	5	6	9	25			0	0
Louisiana	27	9	8	50			0	0
Oklahoma	15	19	10	17	2	2	1	2
Texas	39	20	12	20	2		0	0
Mountain States:								
Montana	1				10	2	0	2
Idaho					1	2	2	1
Wyoming		4			1		1	0
Colorado	2	4			3		1	2
New Mexico	2	3					0	0
Arizona					1		1	0
Utah	1	1				2	4	0
Pacific States:								
Washington	3	3			7	11	2	2
Oregon	3	3	5	2	6	2	0	2
California	28	33	7	7	23	19	3	2

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928	Week ended Aug. 31, 1929	Week ended Sept. 1, 1928
New England States:								
Maine	0	1	10	8	0	0	4	5
New Hampshire	0	1	4	2	0	0	1	0
Vermont	2	0	2	3	0	0	0	0
Massachusetts	2	37	38	58	0	1	7	6
Rhode Island	0	0	2	4	0	0	4	4
Connecticut	2	4	8	7	0	0	4	4
Middle Atlantic States:								
New York	26	88	46	23	8	0	69	36
New Jersey	2	5	19	18	0	0	20	26
Pennsylvania	13	9	61	64	3	1	43	48
East North Central States:								
Ohio	10	31	48	30	15	1	33	38
Indiana	0	0	20	13	13	3	10	15
Illinois	4	8	74	45	13	60	28	30
Michigan	3	1	53	52	5	8	17	17
Wisconsin	0	1	34	23	6	4	8	2
West North Central States:								
Minnesota	3	8	25	28	4	4	5	5
Iowa	1	0	17	11	5	0	12	1
Missouri	0	0	18	22	2	11	7	48
North Dakota	0	11	9	16	0	0	0	1
South Dakota	0	9	5	22	3	1	5	1
Nebraska	0	0	4	7	4	5	2	2
Kansas	1	3	16	20	9	6	13	33
South Atlantic States:								
Delaware	0	1			0	0	10	0
Maryland	1	35	17	8	0	0	33	48
District of Columbia	0	3	5	1	0	0	2	1
Virginia	25							
West Virginia	6	20	11	23	1	1	35	27
North Carolina	3	4	66	33	4	9	31	36
South Carolina	3	2	17	7	0	0	59	72
Georgia	0	0	22	16	0	0	65	79
Florida	0	2	2	3	0	0	5	5

* Week ended Friday.

* Figures for 1929 are exclusive of Oklahoma City and Tulsa.

September 13, 1929

2220

*Cases of certain communicable diseases reported by telegraph by State health officers
for weeks ended August 31, 1929, and September 1, 1929—Continued*

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Aug. 31, 1929	Week ended Sept. 1, 1929	Week ended Aug. 31, 1929	Week ended Sept. 1, 1929	Week ended Aug. 31, 1929	Week ended Sept. 1, 1929	Week ended Aug. 31, 1929	Week ended Sept. 1, 1929
East South Central States:								
Kentucky.....	1	3	14	23	6	0	27	31
Tennessee.....	4	4	13	10	0	1	65	60
Alabama.....	1	1	34	8	0	0	30	87
Mississippi.....	0	1	13	8	0	0	30	35
West South Central States:								
Arkansas.....	0	0	6	0	1	2	21	86
Louisiana.....	0	0	7	2	0	0	20	46
Oklahoma ¹	0	0	16	18	6	4	54	96
Texas.....	0	5	15	10	6	0	13	13
Mountain States:								
Montana.....	0	8	8	6	0	4	3	4
Idaho.....	2	6	0	0	1	0	0	1
Wyoming.....	0	0	1	6	0	1	0	0
Colorado.....	0	0	4	12	9	0	9	4
New Mexico.....	0	0	1	7	3	0	6	8
Arizona.....	1	0	0	0	0	0	0	1
Utah ²	0	0	7	6	0	0	1	3
Pacific States:								
Washington.....	0	16	13	7	8	8	6	9
Oregon.....	1	1	6	7	1	9	5	3
California.....	7	5	48	31	19	4	7	45

¹ Figures for 1929 are exclusive of Oklahoma City and Tulsa.² Week ended Friday.

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	Meningo-coccus meningitis	Diphtheria	Influenza	Malaria	Measles	Pellagra	Poliomyelitis	Scarlet fever	Smallpox	Typhoid fever
<i>June, 1929</i>										
Arizona.....	7	16	4	-----	24	-----	0	16	15	67
<i>July, 1929</i>										
California.....	58	211	41	13	291	6	20	512	123	92
Idaho.....	7	4	4	-----	32	-----	1	7	34	12
Montana.....	1	17	2	-----	90	-----	1	31	14	9
Oregon.....	4	22	10	-----	126	-----	2	16	72	14
Virginia.....	4	51	246	120	200	56	52	72	10	166
Washington.....	5	31	16	-----	155	-----	0	38	124	17
West Virginia.....	1	24	11	-----	146	-----	8	50	25	79

June, 1929

Arizona:	Cases	Chicken pox:	Cases
Chicken pox.....	57	California.....	417
Lethargic encephalitis.....	8	Idaho.....	17
Mumps.....	5	Montana.....	22
Paratyphoid fever.....	5	Oregon.....	35
Trachoma.....	2	Virginia.....	124
Whooping cough.....	65	Washington.....	111
		West Virginia.....	18
		Dengue:	
		California.....	2
		Dysentery:	
Actinomycosis:		California (amebic).....	5
California.....	1	California (bacillary).....	19

July, 1929

Disease	Cases	Rabies in animals:	Cases
Virginia.....	1608	California.....	77
Food poisoning:		Rocky Mountain spotted or tick fever:	
California.....	63	California.....	5
German measles:		Idaho.....	2
California.....	45	Montana.....	4
Washington.....	8	Oregon.....	5
Granuloma, coccidioidal:		Septic sore throat:	
California.....	5	Oregon.....	3
Oregon.....	1	Tetanus:	
Impetigo contagiosa:		California.....	7
Oregon.....	4	Trachoma:	
Washington.....	1	California.....	6
Jaundice (epidemic):		Tularaemia:	
California.....	1	California.....	3
Leprosy:		Typhus fever:	
California.....	1	California.....	1
Lethargic encephalitis:		Virginia.....	6
California.....	11	Undulant fever:	
Washington.....	2	California.....	5
Mumps:		Oregon.....	3
California.....	651	Virginia.....	1
Idaho.....	4	Vincent's angina:	
Montana.....	19	Oregon.....	3
Oregon.....	54	Whooping cough:	
Washington.....	177	California.....	791
Ophthalmia neonatorum:		Idaho.....	20
California.....	1	Montana.....	66
Washington.....	1	Oregon.....	50
Paratyphoid fever:		Virginia.....	981
California.....	6	Washington.....	249
Oregon.....	1	West Virginia.....	165
Puerperal septicemia:			
Washington.....	7		

Number of Cases of Certain Communicable Diseases Reported for the Month of June, 1929, by State Health Officers

State	Chick-en pox	Diph-theria	Meas-les	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Maine.....	141	1	353	120	100	1	35	14	89
New Hampshire.....		10			44	0		0	
Vermont.....	61		5	34	24	4	28	0	66
Massachusetts.....	957	271	2,138	429	649	6		22	728
Rhode Island.....	26	34	200	4	29	0	56	4	71
Connecticut.....	316	93	611	149	145	0	139	4	130
New York.....	2,491	1,027	3,072	1,852	1,015	3	1,764	58	1,312
New Jersey.....	1,128	353	745		311	0	414	20	882
Pennsylvania.....	1,630	526	3,983	599	952	0	895	79	1,554
Ohio.....	1,155	185	3,322	251	530	285	728	38	1,707
Indiana.....	223	54	1,441	10	1,564	382	229	12	166
Illinois.....	1,233	696	6,270	390	1,059	305	1,080	47	884
Michigan.....	1,004	403	2,738	633	1,339	258	555	13	783
Wisconsin.....	1,106	72	4,138	274	383	58	189	15	922
Minnesota.....	369	70	941		258	18	279	14	197
Iowa.....	108	13	233	119	186	129	48	10	142
Missouri.....	183	211	492	78	215	154	303	61	562
North Dakota.....	72	55	408	13	82	49	34	1	21
South Dakota.....	14	6	117	26	32	0	4	1	69
Nebraska.....	76	29	708	44	123	127	14	4	92
Kansas.....	152	31	1,752	195	178	206	154	24	361
Delaware.....	7	8	50	3	10	2	112	2	33
Maryland.....	234	87	155	557	327	0	301	28	543
District of Columbia.....	46	37	76		37	0	129	3	79
Virginia.....	361	36	587		75	22	136	65	965
West Virginia.....	105	34	614		50	73	44	119	333
North Carolina.....	202	68	42		59	24		93	1,557
South Carolina.....	173	105	14	143	23	20	267	300	1,161
Georgia.....	33	26	141	50	40	3	96	132	265
Florida.....	16	23	115	9	10	0	74	13	90

* Pulmonary.

*Number of cases of certain communicable diseases reported for the month of June,
1929, by State health officers—Continued*

State	Chick-en pox	Diph-theria	Meas-les	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Kentucky ¹									
Tennessee	71	32	87	106	69	43	433	150	342
Alabama	79	58	178	42	49	1	513	129	240
Mississippi	262	42		212	37	2	325	184	1,600
Arkansas	30	18	17	60	39	9	136	43	84
Louisiana	14	41	150	1	63	15	185	76	36
Oklahoma ¹	52	40	121	80	69	223	89	68	131
Texas ¹									
Montana	30	8	140	29	41	28	10	12	13
Idaho	7	1	167	9	29	69	8	3	34
Wyoming	22	1	88	27	11	45		13	4
Colorado		26			63	67		15	
New Mexico ¹									
Arizona	57	16	24	5	16	15	78	67	65
Utah ¹									
Nevada	24		35	2		10	17	0	1
Washington	272	44	480	204	58	115	169	14	312
Oregon	125	34	604	89	48	94	63	10	36
California	1,308	209	557	1,338	1,276	122	813	50	807

Case Rates Per 1,000 Population (Annual Basis) for the Month of June, 1929

State	Chick-en pox	Diph-theria	Meas-les	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Maine	2.15	0.02	5.39	1.83	1.53	0.02	0.53*	0.21	1.36
New Hampshire		.27			1.17	.00		.00	
Vermont	2.11		.17	1.17	.83	.14	.97	.00	2.28
Massachusetts	2.08	.76	6.00	1.20	1.82	.02		.06	2.04
Rhode Island	.43	.57	3.34	.07	.48	.00	.94	.07	1.19
Connecticut	2.26	.67	4.38	1.07	1.04	.00	1.00	.03	.93
New York	2.60	1.07	3.20	1.93	1.06	.00	1.84	.06	1.37
New Jersey	3.53	1.10	2.33		.97	.00	1.29	.06	2.76
Pennsylvania	1.99	.64	4.86	.73	1.16	.00	1.09	.10	1.89
Ohio	2.02	.32	5.82	.44	.93	.50	1.28	.07	2.96
Indiana	.85	.21	5.48	.04	2.14	1.45	.87	.05	.63
Illinois	2.00	1.13	10.18	.63	1.72	.50	1.75	.08	1.43
Michigan	2.60	1.04	7.10	1.64	3.47	.67	1.44	.03	2.03
Wisconsin	4.50	.29	16.85	1.12	1.56	.24	.77	.06	3.75
Minnesota	1.63	.31	4.15		1.14	.08	1.23	.06	.87
Iowa	.54	.07	1.17	.60	.93	.65	.24	.05	.71
Missouri	.63	.73	1.69	.27	.74	.53	1.04	.21	1.93
North Dakota	1.37	1.04	7.74	.25	1.56	.93	.65	.02	.40
South Dakota	.24	.10	2.00	.44	.55		.07	.02	1.18
Nebraska	.65	.25	6.07	.38	1.05	1.09	.12	.03	.79
Kansas	1.00	.20	11.57	1.29	1.18	1.36	1.02	.16	2.38
Delaware	.35	.40	2.48	.15	.50	.10	1.60	.10	1.64
Maryland	1.74	.65	1.15	4.14	2.43	.00	2.24	.21	4.04
District of Columbia	.99	.80	1.64		.80	.00	2.78	.06	1.70
Virginia	1.69	.17	2.74		.35	.10	1.64	.30	4.51
West Virginia	.73	.24	4.26		.41	.51	.31	.83	2.31
North Carolina	.82	.28	.17		.24	.10		.38	6.86
South Carolina	1.12	.68	.09	.92	.15	.13	1.73	2.00	7.50
Georgia	.12	.10	.53	.19	.15	.01	.36	.50	1.00
Florida	.13	.19	.96	.08	.08	.00	.62	.11	.75
Kentucky ¹									
Tennessee	.34	.15	.42	.51	.33	.21	2.09	.72	1.65
Alabama	.27	.27	.83	.20	.22	.00	2.40	.60	1.12
Mississippi	1.78	.29		1.44	.25	.01	2.21	1.25	10.87
Arkansas	.19	.11	.11	.43	.24	.06	1.22	.27	.52
Louisiana	.09	.25	.93	.01	.39	.09	1.14	.47	.22
Oklahoma ¹	.29	.22	.68	.45	.39	1.25	.50	.38	.73
Texas ¹									

¹ Pulmonary.² Reports received weekly.³ Exclusive of Oklahoma City and Tulsa.

Case rates per 1,000 population (annual basis) for the month of June, 1929—Continued

State	Chick-en pox	Diph-theria	Meas-les	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phi-d fever	Whoop-ing cough
Montana.....	0.66	0.18	3.10	0.64	0.91	0.62	0.22	0.27	0.29
Idaho.....	.15	.02	3.64	.20	.63	1.50	.17	.07	.74
Wyoming.....	1.06	.05	4.23	1.30	.53	2.16	.....	.63	.....
Colorado.....	.....	.29	.....	.....	.69	.74	.....	.17	.....
New Mexico ¹.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arizona.....	1.42	.40	.60	.12	.40	.37	1.94	1.67	1.62
Utah ².....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nevada.....	3.77	.....	5.50	.31	.....	1.57	11.10	.....	.16
Washington.....	2.05	.33	3.47	1.54	.44	.87	1.28	.11	2.35
Oregon.....	1.66	.45	8.04	1.18	.64	1.25	.84	.13	.48
California.....	3.40	.54	1.45	3.48	3.32	.32	2.11	.13	2.10

¹ Pulmonary.² Reports received weekly.³ Exclusive of Oklahoma City and Tulsa.

PLAQUE-INFECTED GROUND SQUIRRELS IN CALIFORNIA

The director of public health of the State of California reports that on August 23, 1929, plague infection was proved by animal inoculation in two ground squirrels from a ranch 31 miles south of Monterey, Calif. The squirrels were received at the State bacteriological laboratory August 19, 1929.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,410,000. The estimated population of the 89 cities reporting deaths is more than 29,835,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended August 24, 1929, and August 25, 1928

	1929	1928	Estimated expectancy
<i>Cases reported</i>			
Diphtheria:			
46 States.....	918	775	.....
96 cities.....	369	387	446
Measles:			
45 States.....	540	609	.....
96 cities.....	124	170	.....
Meningococcus meningitis:			
45 States.....	94	88	.....
96 cities.....	58	68	.....
Poliomyelitis:			
47 States.....	103	332	.....
Scarlet fever:			
46 States.....	844	672	.....
96 cities.....	248	200	260
Smallpox:			
46 States.....	177	130	.....
96 cities.....	21	10	17
Typhoid fever:			
46 States.....	865	1,131	.....
96 cities.....	174	180	184
<i>Deaths reported</i>			
Influenza and pneumonia:			
89 cities.....	327	346	.....
Smallpox:			
89 cities.....	0	0	.....

City reports for week ended August 24, 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 non-epidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 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, 1928, estimated	Chick-en pox, cases re-por-ted	Diphtheria		Influenza		Meas-les, cases re-por-ted	Mumps, cases re-por-ted	Pneu-monia, deaths re-por-ted
			Cases, esti-mated ex-pectancy	Cases re-por-ted	Cases re-por-ted	Deaths re-por-ted			
NEW ENGLAND									
Maine:									
Portland	78,600	0	0	0		0	0	0	2
New Hampshire:									
Concord	(1)	0	0	1		0	0	0	0
Manchester	85,700	0	0	0		0	0	0	0
Nashua	(1)	0	0	0		0	0	0	0
Vermont:									
Barre	(1)	4	0	0		0	0	0	0
Massachusetts:									
Boston	709,200	11	24	17		0	5	13	5
Fall River	134,300	0	1	0	1	1	0	0	1
Springfield	149,800	2	1	3		0	0	0	0
Worcester	197,600	6	3	1		0	0	0	0
Rhode Island:									
Pawtucket	73,100	0	0	0		0	0	0	0
Providence	286,300	0	3	5		0	0	0	1
Connecticut:									
Bridgeport	(1)	1	3	0		0	0	0	0
Hartford	172,300	0	3	1		0	12	0	0
New Haven	187,900	0	1	0		0	0	0	2
MIDDLE ATLANTIC									
New York:									
Buffalo	555,800	2	8	25		0	2	0	10
New York	6,017,500	5	84	58	5	5	11	0	71
Rochester	328,200	1	3	1		0	2	1	2
Syracuse	199,300	4	2	0		0	3	4	1
New Jersey:									
Camden	135,400	1	2	0		0	0	0	2
Newark	473,600	6	6	17	2	0	2	9	5
Trenton	139,000	0	1	0		0	0	0	2
Pennsylvania:									
Philadelphia	2,064,200	9	29	15	1	1	2	8	16
Pittsburgh	673,800	3	11	5		0	3	0	15
Reading	115,400	0	1	0		0	1	0	1
EAST NORTH CENTRAL									
Ohio:									
Cincinnati	413,700	1	4	3		2	0	0	6
Cleveland	1,010,300	12	19	9	5	0	4	1	11
Columbus	298,000	0	2	0		1	2	0	2
Toledo	313,200	2	5	1		1	0	0	0
Indiana:									
Fort Wayne	105,300	0	1	3		0	1	0	0
Indianapolis	382,100	1	2	0		2	1	0	11
South Bend	86,100	1	0	1		0	0	0	1
Terre Haute	73,500	0	1	0		0	0	0	0
Illinois:									
Chicago	2,157,400	11	44	61	2	1	28	1	25
Springfield	67,200	0	0	0		0	1	0	0

¹ No estimate of population made.

City reports for week ended August 24, 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	Mumps, cases reported	Pneu-monia, deaths re-por-ted
			Cases, esti-mated expec-tancy	Cases re-por-ted	Cases re-por-ted	Deaths re-por-ted			
EAST NORTH CENTRAL—continued									
Michigan:									
Detroit.....	1,378,900	0	25	25	-----	1	3	3	11
Flint.....	148,800	1	3	1	-----	0	1	1	3
Grand Rapids.....	164,200	2	1	0	-----	0	2	0	0
Wisconsin:									
Kenosha.....	56,500	0	0	0	-----	0	1	0	1
Madison.....	50,500	1	0	1	-----	0	0	1	0
Milwaukee.....	54,200	8	8	5	-----	0	6	3	3
Racine.....	74,400	0	0	0	-----	0	2	0	0
Superior.....	(1)	0	0	0	-----	0	0	0	0
WEST NORTH CENTRAL									
Minnesota:									
Duluth.....	116,800	1	1	0	-----	0	0	2	2
Minneapolis.....	455,900	3	10	2	-----	0	0	1	4
St. Paul.....	(1)	1	8	0	-----	0	0	1	3
Iowa:									
Davenport.....	(1)	3	0	0	-----	0	0	0	-----
Des Moines.....	151,900	0	1	0	-----	0	0	0	-----
Sioux City.....	80,000	1	0	0	-----	0	0	0	-----
Waterloo.....	37,100	0	0	0	-----	0	0	0	-----
Missouri:									
Kansas City.....	391,000	1	2	2	-----	0	1	0	4
St. Joseph.....	78,500	0	0	0	-----	0	0	0	0
St. Louis.....	848,100	0	18	7	-----	1	0	0	-----
North Dakota:									
Fargo.....	(1)	0	0	0	-----	0	1	0	0
Grand Forks.....	(1)	3	0	0	-----	0	0	0	-----
South Dakota:									
Sioux Falls.....	(1)	0	0	0	-----	1	0	0	-----
Nebraska:									
Omaha.....	222,800	0	3	1	-----	0	0	0	1
Kansas:									
Topeka.....	62,900	1	0	0	-----	0	0	3	0
Wichita.....	98,300	0	0	1	-----	0	1	2	2
SOUTH ATLANTIC									
Delaware:									
Wilmington.....	128,500	0	1	1	-----	0	0	0	0
Maryland:									
Baltimore.....	830,400	2	13	10	-----	0	0	6	15
Cumberland.....	(1)	0	0	1	-----	0	0	0	0
Frederick.....	(1)	0	1	0	-----	0	0	0	0
District of Columbia:									
Washington.....	552,000	5	6	9	-----	0	0	0	11
Virginia:									
Lynchburg.....	38,600	1	0	0	-----	0	0	8	0
Norfolk.....	184,200	0	1	3	-----	0	0	0	2
Richmond.....	194,400	0	7	7	-----	0	0	0	2
Roanoke.....	64,600	0	2	2	-----	0	0	0	1
West Virginia:									
Charleston.....	55,200	0	0	0	-----	0	0	0	2
Wheeling.....	(1)	0	1	0	-----	0	0	0	-----
North Carolina:									
Raleigh.....	(1)	0	1	1	-----	0	0	0	0
Wilmington.....	39,100	0	0	0	-----	0	0	0	0
Winston-Salem.....	80,000	6	1	2	-----	0	0	2	0
South Carolina:									
Charleston.....	75,900	0	0	0	17	0	0	0	5
Columbia.....	50,600	0	0	0	-----	0	0	2	0
Georgia:									
Atlanta.....	255,100	0	3	5	6	1	0	0	3
Brunswick.....	(1)	0	0	0	-----	0	0	0	0
Savannah.....	99,900	1	-----	-----	-----	-----	-----	-----	-----
Florida:									
Miami.....	156,700	0	1	0	-----	0	1	2	3
St. Petersburg.....	53,300	0	0	0	-----	0	0	0	0
Tampa.....	113,400	0	1	1	-----	0	0	0	0

¹ No estimate of population made.

City reports for week ended August 24, 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, es-ti-mated expec-tancy	Cases re-por-ted	Cases re-por-ted	Deaths re-por-ted			
EAST SOUTH CENTRAL									
Kentucky:									
Covington.....	59,000	0	0	0	-----	0	0	0	1
Tennessee:									
Memphis.....	190,200	0	2	3	-----	0	1	0	1
Nashville.....	139,600	0	2	0	-----	0	0	0	0
Alabama:									
Birmingham.....	222,400	0	3	4	-----	0	1	0	3
Mobile.....	69,600	0	0	0	-----	0	0	0	0
Montgomery.....	63,100	0	0	1	-----	0	0	0	-----
WEST SOUTH CENTRAL									
Arkansas:									
Fort Smith.....	(1)	0	0	1	-----	0	0	0	-----
Little Rock.....	79,200	0	0	1	-----	0	0	0	0
Louisiana:									
New Orleans.....	429,400	0	6	6	2	1	0	0	4
Shreveport.....	81,300	0	0	1	-----	0	0	0	3
Oklahoma:									
Oklahoma City.....	(1)	0	2	1	-----	0	0	0	4
Tulsa.....	170,500	0	0	1	-----	0	0	0	-----
Texas:									
Dallas.....	217,800	1	4	21	1	1	1	0	1
Fort Worth.....	170,600	0	2	3	-----	0	0	0	1
Galveston.....	50,600	0	0	0	-----	0	0	0	2
Houston.....	(1)	0	2	4	-----	0	0	0	3
San Antonio.....	218,100	0	1	3	-----	0	0	0	4
MOUNTAIN									
Montana:									
Billings.....	(1)	0	0	0	-----	0	0	0	0
Great Falls.....	(1)	1	1	0	-----	0	1	2	0
Helema.....	(1)	0	0	0	-----	0	0	0	0
Missoula.....	(1)	0	0	0	-----	0	0	0	0
Idaho:									
Boise.....	(1)	0	0	0	-----	0	0	0	0
Colorado:									
Denver.....	294,200	2	9	3	-----	1	5	2	5
Pueblo.....	44,200	1	1	0	-----	0	0	0	1
New Mexico:									
Albuquerque.....	(1)	0	0	0	-----	0	0	0	0
Utah:									
Salt Lake City.....	138,000	1	2	0	-----	0	0	8	0
Nevada:									
Reno.....	(1)	0	0	0	-----	0	0	0	0
PACIFIC									
Washington:									
Seattle.....	383,200	3	2	0	-----	1	6	-----	-----
Spokane.....	109,100	5	1	0	-----	0	0	0	-----
Tacoma.....	110,500	2	1	0	-----	0	0	0	0
Oregon:									
Portland.....	(1)	0	4	0	-----	0	0	0	3
Salem.....	(1)	5	0	0	-----	0	0	0	0
California:									
Los Angeles.....	(1)	3	24	8	5	0	3	10	11
Sacramento.....	75,700	1	2	0	-----	0	1	0	3
San Francisco.....	585,300	5	9	4	-----	0	11	4	2

1 No estimate of population made.

City reports for week ended August 24, 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		
NEW ENGLAND											
Maine:											
Portland.....	0	0	0	0	0	0	1	0	0	0	14
New Hampshire:											
Concord.....	0	0	0	0	0	0	0	0	0	0	5
Manchester.....	0	0	0	0	0	0	0	0	0	0	13
Nashua.....	0	0	0	0	0	0	0	0	0	0	7
Vermont:											
Barre.....	0	0	0	0	0	1	0	0	0	1	1
Massachusetts:											
Boston.....	14	16	0	0	0	6	3	7	0	32	186
Fall River.....	1	1	0	0	0	4	1	0	0	4	25
Springfield.....	1	1	0	0	0	2	1	0	0	3	30
Worcester.....	2	0	0	0	0	3	1	1	0	9	42
Rhode Island:											
Pawtucket.....	0	0	0	0	0	0	0	0	0	0	20
Providence.....	2	1	0	0	0	3	1	0	0	0	48
Connecticut:											
Bridgeport.....	2	0	0	0	0	3	1	1	0	0	23
Hartford.....	1	1	0	0	0	0	0	1	0	3	27
New Haven.....	1	0	0	0	0	1	3	2	0	6	28
MIDDLE ATLANTIC											
New York:											
Buffalo.....	4	5	0	0	0	7	2	0	0	18	145
New York.....	26	13	1	0	0	75	40	51	3	61	1,105
Rochester.....	2	1	0	0	0	4	1	0	0	1	67
Syracuse.....	2	0	0	0	0	1	0	0	0	42	42
New Jersey:											
Camden.....	0	0	0	0	0	1	1	0	0	7	30
Newark.....	3	3	0	0	0	4	1	6	0	54	78
Trenton.....	0	1	1	0	0	5	1	0	0	6	30
Pennsylvania:											
Philadelphia.....	17	7	0	0	0	30	10	10	2	68	366
Pittsburgh.....	9	2	0	0	0	0	3	1	1	23	150
Reading.....	0	0	0	0	0	0	1	1	0	7	23
EAST NORTH CENTRAL											
Ohio:											
Cincinnati.....	3	4	0	0	0	11	2	0	0	6	134
Cleveland.....	11	6	0	0	0	13	5	4	0	67	176
Columbus.....	2	0	1	0	0	7	1	1	0	8	69
Toledo.....	3	3	0	0	0	5	2	0	0	18	53
Indiana:											
Fort Wayne.....	0	0	0	0	0	0	1	1	0	1	14
Indianapolis.....	2	8	0	0	0	4	2	0	0	0	96
South Bend.....	1	0	0	0	0	0	0	0	0	1	14
Terre Haute.....	0	0	0	0	0	0	0	0	0	3	15
Illinois:											
Chicago.....	24	43	0	0	0	37	6	5	0	103	573
Springfield.....	0	1	0	0	0	0	0	0	0	6	14
Michigan:											
Detroit.....	22	29	0	0	0	29	5	4	1	126	288
Flint.....	4	2	0	6	0	1	0	1	0	0	25
Grand Rapids.....	3	0	0	0	0	2	1	1	0	8	34
Wisconsin:											
Kenosha.....	0	0	1	0	0	0	0	0	0	1	3
Madison.....	0	1	0	0	0	0	0	0	0	14	77
Milwaukee.....	6	5	1	0	0	2	0	3	1	60	77
Racine.....	1	0	0	0	0	2	0	0	0	9	15
Superior.....	0	0	0	0	0	1	0	0	0	2	11

City reports for week ended August 24, 1929—Continued

City reports for week ended August 24, 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		
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith.....	1	2	0	0	0	0	0	0	0	0	0
Little Rock.....	0	1	0	0	0	2	1	1	0	0	0
Louisiana:											
New Orleans..	1	4	0	0	0	9	4	11	1	5	125
Shreveport.....	0	0	0	0	0	0	1	0	0	2	27
Oklahoma:											
Oklahoma City	1	1	0	0	0	0	2	4	0	0	25
Tulsa.....	1	0	0	0	0	0	2	1	0	2	0
Texas:											
Dallas.....	2	4	1	2	0	2	4	3	1	0	40
Fort Worth.....	0	2	0	0	0	5	2	2	0	1	22
Galveston.....	0	0	0	0	0	2	0	0	0	0	12
Houston.....	1	4	1	0	0	2	1	4	0	0	50
San Antonio.....	1	2	0	0	0	5	1	4	1	0	67
MOUNTAIN											
Montana:											
Billings.....	0	0	1	0	0	0	0	0	0	0	7
Great Falls.....	0	2	0	1	0	0	0	0	0	1	3
Helena.....	0	0	0	0	0	0	0	2	0	0	10
Missoula.....	0	0	0	0	0	0	0	1	0	0	7
Idaho:											
Boise.....	0	0	1	0	0	0	0	0	0	0	3
Colorado:											
Denver.....	2	0	0	0	0	9	1	1	0	12	87
Pueblo.....	0	1	0	1	0	0	0	4	1	0	10
New Mexico:											
Albuquerque.....	0	0	0	0	0	2	1	1	0	0	6
Utah:											
Salt Lake City.....	1	2	0	1	0	0	1	0	0	13	26
Nevada:											
Reno.....	0	0	0	0	0	0	0	0	0	0	1
PACIFIC											
Washington:											
Seattle.....	2	3	0	2	0	0	2	0	0	10	0
Spokane.....	2	0	0	1	0	0	0	0	0	5	0
Tacoma.....	1	0	1	4	0	0	1	0	0	0	17
Oregon:											
Portland.....	2	1	4	0	0	3	1	0	1	0	69
Salem.....	0	0	0	0	0	0	0	0	0	2	0
California:											
Los Angeles.....	8	8	2	0	0	16	4	0	0	34	208
Sacramento.....	1	2	0	0	0	4	1	1	0	1	38
San Francisco.....	5	8	1	0	0	11	1	1	0	16	132

Division, State, and city	Menin- gococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis, (infan- tile paralysis)			
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
NEW ENGLAND										
Maine:										
Portland.....	1	1	0	0	0	0	1	0	0	0
Massachusetts:										
Boston.....	0	0	0	0	0	0	3	4	0	0
Fall River.....	1	0	0	0	0	0	0	0	0	0
Springfield.....	0	1	0	0	0	0	0	1	0	0
Connecticut:										
Hartford.....	0	0	0	0	1	0	0	0	0	0

City reports for week ended August 24, 1929—Continued

Division, State, and city	Meningo- coccus meningitis		Lethargic encephalitis		Pellagra		Poliomylitis (infan- tile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expectancy	Cases	Deaths
MIDDLE ATLANTIC									
New York:									
Buffalo.....	0	0	0	0	0	0	1	6	0
New York.....	7	2	1	0	0	0	15	0	0
Syracuse.....	1	0	0	0	0	0	1	4	0
New Jersey:									
Newark.....	1	0	0	0	0	0	0	1	0
Pennsylvania:									
Philadelphia.....	9	3	0	0	0	0	1	1	0
Pittsburgh ¹	1	1	0	0	0	0	1	0	0
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	1	1	0	0	0	0	0	0	0
Cleveland.....	1	1	0	2	0	0	1	3	0
Toledo.....	0	0	0	0	0	0	0	1	0
Indiana:									
Indianapolis.....	0	2	0	0	0	0	0	0	0
Illinois:									
Chicago.....	3	3	0	2	0	0	3	1	0
Michigan:									
Detroit.....	13	6	1	0	1	0	1	4	1
Flint.....	0	1	0	0	0	0	0	0	0
Wisconsin:									
Milwaukee.....	2	1	0	0	0	0	0	0	0
WEST NORTH CENTRAL									
Minnesota:									
Minneapolis.....	1	1	0	0	0	0	0	0	0
Iowa:									
Des Moines.....	1	0	0	0	0	0	0	0	0
Missouri:									
St. Joseph.....	1	0	0	0	0	0	0	0	0
St. Louis.....	6	2	0	0	0	0	1	0	0
North Dakota:									
Fargo.....	0	1	0	0	0	0	0	0	0
SOUTH ATLANTIC									
Maryland:									
Baltimore ²	1	2	0	0	0	0	0	0	0
District of Columbia:									
Washington.....	1	0	0	0	0	0	1	0	0
Virginia:									
Roanoke.....	0	0	0	0	0	0	0	1	0
North Carolina:									
Raleigh.....	0	0	0	0	0	2	0	0	0
South Carolina:									
Charleston.....	0	0	0	0	5	0	0	0	0
Columbia.....	0	0	0	0	0	2	0	0	0
Georgia:									
Atlanta.....	0	0	0	0	2	2	1	1	0
Brunswick.....	0	0	0	0	0	2	0	0	0
Florida:									
Tampa.....	0	1	0	0	0	0	0	0	0
EAST SOUTH CENTRAL									
Kentucky:									
Covington.....	0	0	0	0	0	0	0	1	1
Tennessee:									
Nashville.....	0	0	0	0	0	1	0	0	0
Alabama:									
Birmingham.....	0	0	0	1	0	0	0	0	0
Montgomery.....	0	0	0	0	1	0	0	0	0

¹ Rabies (in man) 1 case and 1 death at Pittsburgh, Pa.² Typhus fever: 1 case at Baltimore, Md.

City reports for week ended August 24, 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
WEST SOUTH CENTRAL								
Arkansas:								
Little Rock.....	0	0	0	1	0	0	0	0
Texas:								
San Antonio.....	0	0	0	0	0	1	1	0
MOUNTAIN								
Colorado:								
Denver.....	0	1	0	0	0	0	1	0
Utah:								
Salt Lake City.....	1	0	0	0	0	0	0	0
PACIFIC								
Washington:								
Seattle.....	2	0	0	0	0	0	1	0
California:								
Los Angeles *.....	1	1	0	0	0	0	1	1
Sacramento.....	3	0	0	0	0	0	0	0

* Dengue: 1 case at Los Angeles, Calif.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended August 24, 1929, compared with those for a like period ended August 25, 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 estimated aggregate populations 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, July 21 to August 24, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928¹

DIPHTHERIA CASE RATES

	Week ended—									
	July 27, 1929	July 28, 1928	Aug. 3, 1929	Aug. 4, 1928	Aug. 10, 1929	Aug. 11, 1928	Aug. 17, 1929	Aug. 18, 1928	Aug. 24, 1929	Aug. 25, 1928
	98 cities.....	68	2 68	67	2 65	2 64	61	4 63	55	4 61	65
New England.....	59	46	54	57	45	60	38	48	63	62
Middle Atlantic.....	75	81	67	67	70	60	59	55	58	66
East North Central.....	103	64	99	73	85	73	91	59	69	67
West North Central.....	21	59	25	66	31	59	23	57	25	65
South Atlantic.....	28	67	47	55	32	54	49	67	79	86
East South Central.....	27	49	34	28	10 30	14	11 92	49	54	49
West South Central.....	103	69	99	41	12 126	53	126	45	146	65
Mountain.....	9	62	9	35	35	35	44	27	26	44
Pacific.....	32	2 57	47	2 84	45	69	32	46	30	41

Footnotes at end of table.

Summary of weekly reports from cities, July 21 to August 24, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued

MEASLES CASE RATES

	Week ended—									
	July 27, 1929	July 28, 1928	Aug. 3, 1929	Aug. 4, 1928	Aug. 10, 1929	Aug. 11, 1928	Aug. 17, 1929	Aug. 18, 1928	Aug. 24, 1929	Aug. 25, 1928
98 cities.....	70	130	49	99	30	59	24	37	21	29
New England.....	102	651	97	527	32	248	29	64	38	85
Middle Atlantic.....	27	126	35	79	15	51	15	40	13	21
East North Central.....	149	83	83	84	56	63	33	39	33	31
West North Central.....	58	29	38	14	33	18	13	22	8	16
South Atlantic.....	17	75	11	59	10	23	16	33	10	34
East South Central.....	7	98	7	28	7	35	0	28	14	14
West South Central.....	28	60	8	0	20	4	24	28	4	0
Mountain.....	70	80	26	97	61	44	52	44	52	9
Pacific.....	80	54	45	30	25	20	47	8	40	31

SCARLET FEVER CASE RATES

98 cities.....	59	42	40	46	44	37	30	41	34	
New England.....	57	57	63	53	52	67	50	39	45	30
Middle Atlantic.....	19	27	24	28	23	21	17	21	15	18
East North Central.....	110	56	62	58	72	42	49	37	62	44
West North Central.....	77	61	35	68	44	68	40	61	55	49
South Atlantic.....	60	38	28	38	44	27	76	17	32	34
East South Central.....	27	14	34	35	15	49	18	14	68	63
West South Central.....	59	20	40	77	41	36	40	16	67	53
Mountain.....	26	27	9	27	44	18	78	27	44	32
Pacific.....	67	71	50	67	57	38	55	36	52	33

SMALLPOX CASE RATES

98 cities.....	8	22	7	24	15	1	7	1	3	2
New England.....	0	0	0	0	0	0	0	0	0	0
Middle Atlantic.....	0	0	0	0	0	0	3	0	0	0
East North Central.....	16	1	13	7	12	1	17	1	4	5
West North Central.....	21	4	6	0	10	2	4	0	6	0
South Atlantic.....	0	0	0	2	0	2	0	0	0	0
East South Central.....	7	35	7	21	7	0	9	0	0	0
West South Central.....	8	0	4	0	0	0	0	0	8	0
Mountain.....	9	18	26	35	0	9	9	0	26	9
Pacific.....	22	3	35	10	17	8	12	3	17	0

TYPHOID FEVER CASE RATES

98 cities.....	18	22	19	21	17	27	20	27	29	31
New England.....	29	11	11	5	14	16	11	16	27	16
Middle Atlantic.....	7	17	11	17	11	15	19	17	34	23
East North Central.....	8	5	10	10	12	14	5	18	12	18
West North Central.....	13	23	33	8	15	25	6	41	13	25
South Atlantic.....	37	36	22	42	24	57	41	36	36	52
East South Central.....	102	140	149	154	44	245	138	98	102	231
West South Central.....	71	105	55	61	65	73	47	97	91	53
Mountain.....	44	27	9	0	9	9	61	35	70	62
Pacific.....	7	17	20	27	30	15	17	26	5	26

Footnotes at end of table.

Summary of weekly reports from cities, July 21 to August 24, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued

INFLUENZA DEATH RATES

	Week ended—										
	July 27, 1929	July 28, 1928	Aug. 3, 1929	Aug. 4, 1928	Aug. 10, 1929	Aug. 11, 1928	Aug. 17, 1929	Aug. 18, 1928	Aug. 24, 1929	Aug. 25, 1928	
	91 cities.....	3	5	3	6	11 1	5	4 3	3	4 3	4
New England.....	2	5	0	2	0	0	0	2	2	2	2
Middle Atlantic.....	2	2	2	6	1	5	2	0	3	3	3
East North Central.....	4	6	4	3	6 ¹	1	7 2	4	4	3	3
West North Central.....	3	3	0	3	6	8	3	0	0	0	0
South Atlantic.....	4	6	4	15	4 ⁰	8	9 0	0	8 2	10	10
East South Central.....	0	23	15	0	0	15	11 21	0	0	0	0
West South Central.....	4	12	8	12	8	29	12	29	8	17	17
Mountain.....	9	9	9	0	0	9	17	0	9	0	0
Pacific.....	0	0	0	10	0	0	3	10	0	3	3

PNEUMONIA DEATH RATES

91 cities.....	50	44	54	53	11 53	59	4 58	55	5 54	58
	50	44	54	53	11 53	59	4 58	55	5 54	58
New England.....	32	34	43	57	38	48	52	37	25	44
Middle Atlantic.....	57	51	61	60	60	72	71	66	60	68
East North Central.....	38	29	47	31	41	33	7 36	42	47	41
West North Central.....	51	31	26	70	45	80	33	46	48	52
South Atlantic.....	60	71	45	52	44	54	9 62	59	5 79	61
East South Central.....	52	84	96	38	59	69	11 104	77	37	115
West South Central.....	89	58	81	87	126	108	81	58	69	87
Mountain.....	61	80	61	62	61	71	35	62	52	44
Pacific.....	26	10	52	76	43	57	75	61	52	51

¹ 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.

- ² Seattle and Spokane, Wash., not included.
- ³ Indianapolis, Ind., Richmond, Va., Montgomery, Ala., and Fort Smith, Ark., not included.
- ⁴ Indianapolis and Terre Haute, Ind., Savannah, Ga., and Memphis, Tenn., not included.
- ⁵ Charleston, W. Va., and Savannah, Ga., not included.
- ⁶ Indianapolis, Ind., not included.
- ⁷ Indianapolis and Terre Haute, Ind., not included.
- ⁸ Richmond, Va., not included.
- ⁹ Savannah, Ga., not included.
- ¹⁰ Montgomery, Ala., not included.
- ¹¹ Memphis, Tenn., not included.
- ¹² Fort Smith, Ark., not included.
- ¹³ Indianapolis, Ind., and Richmond, Va., 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

Group 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	1,768,100
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	682,400
West South Central.....	8	7	1,319,100	1,289,900	1,285,000	1,256,400
Mountain.....	9	9	598,800	590,200	598,800	590,200
Pacific.....	6	4	2,050,600	2,043,500	1,590,300	1,551,200

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended August 17, 1929.—The Department of Pensions and National Health of the Dominion of Canada reports cases of certain communicable diseases for the week ended August 17, 1929, as follows:

Province	Cerebro-spinal fever	Influenza	Poliomyelitis	Small-pox	Typhoid fever
Prince Edward Island.....					
Nova Scotia.....	2		2		
New Brunswick.....					2
Quebec.....		1	5	1	16
Ontario.....	2		10	5	8
Manitoba.....					3
Saskatchewan.....				1	2
Alberta.....				2	2
British Columbia.....			1	2	10
Total.....	4	1	18	11	43

CHINA

Shanghai—Cholera—August, 1929.—Cholera has been reported at Shanghai, China, as follows:

	Cases
Week ended August 17, 1929.....	797
Week ended August 24, 1929.....	500
Week ended August 31, 1929.....	483

(2234)

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

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, 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—																	
	Feb. 10–Mar. 10, 1920			Apr. 7– Mar. 9, 1920			May 5– June 4, 1920			June, 1920			July, 1920			August, 1920		
Ceylon.....	D 4						8	16	22	20	6	13	20	27	3	10	17	24
Colombo.....	C D 1						3	3	3	3								
Chlns:																		
Amoy.....	C 3																	
Canton.....	C 3						2	1			3	1	2	4	1	2	1	2
Manchuria—Kwantung—Dairen.....	C D 3						1				5	4	3	1		1	1	1
Shanghai.....	C D 3						3				3	2	3	1		1	1	1
Swatow.....	C D 3												P	1	1	2	4	24
India.....	C 7,627 D 4,426	9,046	18,321	30,616	8,406	7,329	6,937	6,777	6,946	7,315	6,946							
Bassein.....	D 6	4,967	11,069	20,311	6,943	4,815	4,708	4,444	4,783	4,431								
Bombay.....	C D 6	45	118	38	1	1										3	3	3
Calcutta.....	C D 1	6	6	3			1	1								1	1	1
Karachi.....	C D 144	201	552	788	924	98	83	74	90	82	69	59						4
Madras.....	C D 0	144	307	461	605	65	53	7	51	41	29	59						1
Moulmein.....	C D 4						1									1	1	1
Negapatam.....	C D 3																	4
Rangoon.....	C D 6	13	15	8	13	1		3		3	1							1
Tuticorin.....	C D 6		37	10	7	2		2		15	16	4	4		2			1
Vizagapatam.....	D 4									12	10	8			1			

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

CHOLERA—Continued

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

		June, 1929			July, 1929		
		Janu- ary, 1929	Febru- ary, 1929	March, 1929	April, 1929	May, 1929	June, 1929
Smud Prakar.	C	1					
Smud Songram.	C						
Sri Dharmara Province ¹ .	D						
On vessel:							
S. S. Angby, at Saigon-Cholon.	C						
S. S. Cap. St. Jacques, at Singapore, from Saigon-Cholon.	C		P				
S. S. Elkma, at Penang from Singapore.	C		P				
S. S. Elephant, at Penang from Calcutta.	C		P				
S. S. Empura, at Madras.	C			2			
S. S. Media, at Colombo from Calcutta.	C			1			
S. S. Saka Maru, at Calcutta.	C			6			
S. S. Tialwa, at Penang from Singapore.	C		P				
S. S. Tokushima, at Hong Kong.	C				2		
S. S. Texas Maru, at Nagasaki from Shanghai.	D					2	
							1

Indo-China (French) (see also table above):

Annam.	O	6	20	15	5		
Cambodia.	C	69	29	27	188		
Cochin-China.	C	223	183	81	42		
Laos.	C					2	
Tonkin.	C			3	2		

¹ There were 98 cases of cholera with 16 deaths in Nagara Sri Dharmara Province, Siam, from May 16 to July 7, 1929.

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

PLAQUE

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

Place	PLAQUE												Week ended—												
	Feb. 10- Mar. 9, 1929			Mar. 10- Apr. 6, 1929			Apr. 7- May 4, 1929			May 5- June 1, 1929			June, 1929			July, 1929			August, 1929						
	8	15	22	29	6	13	20	27	3	10	17	24													
Algeria: Philippeville.....	C																								
Argentina: Buenos Aires.....	C	2	1																						
Rosario.....	C	2	5																						
Asturias: St. Michael's Island.....	C	81	1																						
Boligan Congo: Blukwa.....	C																								
Bulgaria.....	D																								
Djigui.....	DC	4																							
Rekwa.....	DC	1																							
Brazil: Porto Alegre British East Africa (see also table below):	C																								
Uganda.....	C	112	130	231	450	255	357	363	422	255															
Canary Islands: Tenerife.....	D	108	124	219	408	193	256	301	319	220															
Laguna.....	D																								
Ceylon:	C	4	5	7															P	P					
Colombo.....	D	3	1	4	6																				
Plague-infected rats:	C	2																							
Galle.....	DC																								
Matara.....	D																								
China:	C	1																							
Hainan.....	C																								
Hong Kong.....	C																								
Plague-infected rats:	C																								
Manchuria—Tungliao District.....	C																								
Suyuan Province.....	C	1																	P	P					

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

PLAQUE—Continued

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

Place	Week ended—											
	Feb. 10-Mar. 10, Mar. 9, 1929			Apr. 7-May 4, Apr. 6, 1929			May 5-June 1, June 1, 1929			July, 1929		
Iraq: Baghdad.....	O	10	11	8	14	2	1	7	2	1	1	1
Plague-infected rats.	D	8	3	7	5	1	2	2	1	1	1	1
Diyalah Liwa.....	D	22	14	2	1	12	P	1	1	1	1	1
Northern: Ossato—Plague-infected rats Madagascar (see also table below): Tamatave.....	O	7	7	7	1	1	1	1	1	1	1	1
Plague-infected rats	D	2	1	1	P	1	1	1	2	2	1	1
Morocco.....	O	106	31	42	4	2	5	7	3	21	16	16
Nigeria: Lagos.....	O	11	73	16	4	4	1	1	11	11	6	6
Plague-infected rats Peru (see table below): Senegal (see table below): Siam.....	D	11	4	8	4	1	1	1	2	1	1	2
Bangkok.....	O	9	9	9	10	9	1	1	1	1	1	1
Napara Pathom.....	O	11	8	8	6	2	1	1	1	1	1	3
Straits Settlements: Singapore.....	O	3	4	4	2	2	2	2	2	2	2	2
Tunisia: Tunis.....	O	2	1	1	1	1	1	1	1	1	1	1
Turkey Constantinople.....	O	1	1	1	1	1	1	1	1	1	1	1
Union of Socialist Soviet Republics: Caucasus.....	O	0	0	0	0	0	0	0	1	3	1	2

Incomplete reports.

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

SMALLPOX

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

September 13, 1929

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

SMALLPOX—Continued

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

September 13, 1929

Calcutta.....	C	104	20	77	74	36	7	4	8	8	6	4	3	2	5	13	2
Karachi.....	D	147	206	144	94	8	13	10	4	6	3	12	4	6	1	1	1
Madras.....	D	14	70	69	69	6	8	7	4	6	1	6	1	1	1	1	1
Moulmein.....	D	200	392	327	174	21	17	28	22	26	39	24	34	28	16	16	16
Negapatam.....	D	61	88	84	61	2	6	8	4	6	12	10	4	8	6	6	6
Rangoon.....	D	14	18	7	8	3	1	1	1	3	1	1	1	1	2	1	3
Tuticorin.....	D	4	4	6	6	2	2	1	1	1	1	1	1	1	1	1	1
Vizagapatam.....	D	63	26	28	2	1	1	1	1	1	1	1	1	1	1	1	1
India (French):																	
Karikal.....	D	9	6	8	2	2	3	1	1	1	1	1	1	1	2	10	2
Pondicherry Province.....	D	79	70	60	30	32	4	1	3	1	7	7	6	4	8	4	3
India (Portuguese):																	
Indo-China (see also table below):																	
Phnompenh.....	D	62	68	40	22	1	3	2	2	5	1	1	1	1	2	1	1
Saigon and Cholon.....	D	38	33	24	12	1	1	1	1	1	1	1	1	1	1	1	1
Iraq:																	
Baghdad.....	D	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Basra.....	D	5	5	6	3	3	1	1	1	1	1	1	1	1	1	1	1
Diyalah Liwa.....	D	7	9	8	8	8	8	1	1	1	1	1	1	1	1	1	1
Kirkuk Liwa.....	D	6	9	6	6	48	48	13	13	13	2	2	2	2	2	2	2
Mossoul	D	18	28	24	13	13	13	13	13	13	13	13	13	13	13	13	13
Italy: Turin.....	D	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jamaica (outside Kingston).....	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Japan:																	
Kobe.....	C	1	1	1	1	12	2	2	2	2	2	2	2	2	2	2	2
Niigata.....	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Osaka.....	C	10	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2
Shimane Province.....	C	10	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1
Tokyo.....	D	76	32	20	6	1	1	1	1	1	1	1	1	1	1	1	1
Mexico:																	
Acapulco.....	C	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aguascalientes.....	D	3	5	9	6	6	4	3	3	3	5	2	2	2	2	2	2
Oaxaca Province.....	C	3	5	9	6	6	4	3	3	3	5	2	2	2	2	2	2
Coahuila.....	D	3	5	9	6	6	4	3	3	3	5	2	2	2	2	2	2

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

SMALLPOX—Continued

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

Turkey (see table below)
Union of Socialist Soviet Republics: Vladivostok....
Union of South Africa:

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

TYPHUS FEVER

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

Place	Week ended—							August, 1929								
	Jan. 13- Feb. 9, 1929	Feb. 10- Mar. 9, 1929	Mar. 10-Apr. 6, 1929	Apr. 7- May 4, 1929	May 5- June 1, 1929	July, 1929										
						8	15	22	29	6	13	20	27	3	10	17
Algeria:																
Algiers.....	C	2	18	6	11	1	1	1	7							3
Constantine Department.....	D	6	2	3	8	14	1	3	4							2
Oran.....	C															6
British South Africa: Northern Rhodesia.....	D															2
Bulgaria.....	D	7	30	40	28	3	21	1	2	1	1	2	1	1	2	7
Sofia.....	C	1	2	6	2	1										1
Chile:																
Concepcion.....	C					2		1								
Valparaiso.....	D	2														
China:																
Canton.....	D	2														
Hong Kong.....	C	1				1										
Manchuria.....	C															
Checoslovakia (see table below)																
Egypt:																
Alexandria.....	D					1	1	1								
Assouan Province.....	D					2										
Bebela Province.....	D	13	67	60	169	13										6
Cairo.....	D	9	9	9	24	6									2	26
Dacchilia Province.....	D				34	2									1	1
Gharbiah.....	D	1	2													
Menoufia Province.....	D	1				35										
Port Said.....	D						2	1							1	1
Greece (see table below)	C									1	3	1				
Hungary.....	C									1						

September 12, 1920

1 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.

Wu-ho-o-China (see table below).

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

TYPHUS FEVER—Continued

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

Place	Feb. ruary, 1920	March, 1920	April, 1920	May, 1920	June, 1920	July, 1920	Place	Feb. ruary, 1920	March, 1920	April, 1920	May, 1920	June, 1920	July, 1920	
Canada: Ontario.....	C	3	2	1	1	1	Lithuania.....	0	24	62	101	63	27	10
China: Seoul.....	C	41	25	18	1	1	Turkey.....	D	3	1	7	5	4	1
Czechoslovakia.....	C	7	1	1	1	1	Yugoslavia.....	C	3	11	3	10	10	...
Greece: Athens.....	D	1	4	2	3	3		D	1	13	1	1	3	1
Indo-China: Tonkin.....	C	4	2	10	7	6		C	2	2	7	10	1	1
Latvia.....	C	1	1	10	7	6		D	1	1	1	1	1	1

YELLOW FEVER

Place	Week ended—						
	Jan. 12- Feb. 10- Feb. 9, 1920	Mar. 10- Mar. 9, 1920	Apr. 6- Apr. 5, 1920	May 5- June 1, 1920	June, 1920	July, 1920	August, 1920
Belian Congo: Tumba.....	C			1			
Brazil:							
Bahia.....	C		1				
D	D	1					
O	O	1					
P	P	1					
Q	Q	1					
R	R	1					
S	S	1					
T	T	1					
U	U	1					
V	V	1					
W	W	1					
X	X	1					
Y	Y	1					
Z	Z	1					
Guatemala.....							
Para.....							
Pernambuco.....							
Porto Allegre.....							
Rio de Janeiro 1.....							
Sao Paulo.....							

Imported. - yellow forest trich. 14 dioctria were found at Diode Lorraine during January 1000 mostly on bushes

25 cases of yellow fever with 15 deaths were reported at Rio de Janeiro during January 1928, mostly succubus.

1