PUBLIC HEALTH REPORTS

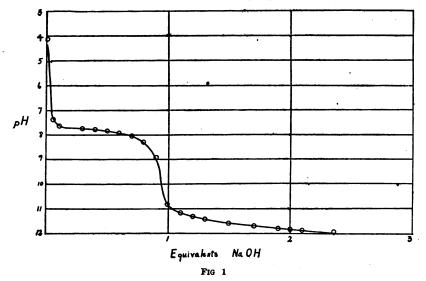
ÿOL 40

No. 27

SOME PROPERTIES OF IRON COMPOUNDS AND THEIR RELA-TION TO WATER CLARIFICATION

By LEWIS B. MILLER, Associate Chemist, Hygienic Laboratory, United States Public Health Service

In the clarification of water for potable purposes by rapid sand filtration it is necessary to add a chemical coagulant to assist the process. The two most commonly used coagulants are filter alum and copperas. In previous papers from this laboratory (see Theriault and Clark, 1923; Miller, 1923, 1924, and 1925) studies have been made of some of the fundamental properties of the "alum floc"



and the conditions for its formation in relation to its use in water clarification. The present paper deals with the application of the principles evolved for "alum floc" to the iron compounds used to assist in rapid sand filtration.

As a preliminary step, an electrometric titration of a 0.01 molar solution of recrystallized ferrous sulfate was made, using the hydrogen electrode. The results are given in Figure 1.

This curve apparently corresponds to the results obtained by Hildebrand (1913). There is at first a decided increase in pH value with the addition of small quantities of alkali. Simultaneously

50242°---25†-----1

(1413)

with the increase in pH a precipitate begins to form. Upon the addition of one equivalent of alkali a second increase in pH value occurs. A curve of this type suggests the formation of a solid phase consisting of the basic sulfate.

The composition of the precipitate from partially alkalinized ferrous sulfate was determined as follows: Five hundred c. c. of 0.02 molar ferrous sulfate solution were placed in a tall cylinder fitted with a rubber stopper. Oxygen-free nitrogen was bubbled through this solution for an hour. To this solution were added slowly 500 c. c. of solution containing the desired amount of sodium hydroxide through which nitrogen had likewise been bubbled. During this process nitrogen was bubbled continuously through the solution. The precipitate was then repeatedly centrifuged and washed with oxygen-free water in a closed vessel in a nitrogen atmosphere until the wash water no longer gave a test for sulfate. The precipitate was then dissolved and analyzed to determine its sulfate-iron ratio. In spite of precautions, the iron could not be kept in the pure ferrous

In spite of precautions, the iron could not be kept in the pure ferrous state. This was indicated by the fact that the precipitate formed during this process was always discolored and that during the centrifuging process the color appreciably darkened. In Table 1 are given the results of these analyses. The results indicate that sulfate is carried down to an appreciable extent in the precipitate from the partially alkalinized, ferrous sulfate solution. As increasing quantities of alkali are added, the proportion of sulfate present in the precipitate decreases and finally becomes zero.

To determine whether a progressive hydrolysis of the precipitate occurred during washing, samples were made up and precipitated as before. These were centrifuged and the precipitates containing adhering solution analyzed at once without washing. The results indicated a low ratio of sulfate to iron in the precipitate.

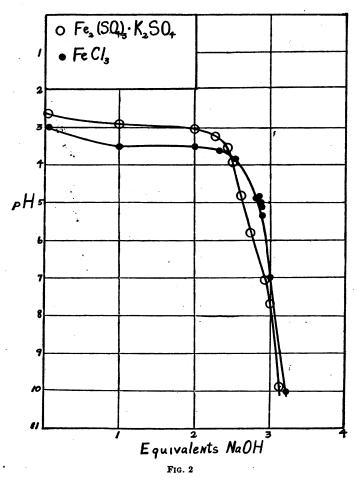
Since, in the use of ferrous sulfate as a coagulant in water purification, oxidation to the ferric condition occurs, a study was next made of certain ferric compounds similar to the study made upon copperas.

Experiment No.	Mols. NaOH added per mol. Fe	рН	Mol. ratio SO 4 Fe in the solid phase
1 6 2 4 5 3	0.5 .8 1.0 1.2 1.4 1.5 2.0	7.9 7.9 (1) (1) (1) (1) (1)	0. 0999 . 1002 . 0617 . 0667 . 0704 0 0

TABLE 1

¹ Gave pH values above the indicator range.

Since an electrometric titration by the hydrogen electrode can not be made upon ferric compounds without special procedures of dubious value, titration curves were made in the following manner upon ferric chloride and potassium ferric alum: One-liter mixtures of the ferric salt and sodium hydroxide were made up in which the concentration of iron was 0.01 molar and the quantity of alkali varied. After the precipitate had settled, the pH value of the solution was determined colorimetrically. In Figure 2 are given the results obtained.



It will be observed that the titration curves in Figure 2 are very similar to the titration curves for the corresponding aluminium compounds over the more acid ranges (see Theriault and Clark, 1923). An essential difference exists between compounds of the two metals in alkaline solutions, due to the fact that the aluminium precipitate dissolves readily, forming soluble aluminates. The ferric precipitate does not so dissolve. Keeping this difference in mind, the discussion upon aluminium given in previous papers (Theriault and Clark, 1923, and Miller, 1923) holds equally for the ferric compounds.

The composition of the precipitate from partially alkalinized ferric alum solution was next studied according to the method of Miller (1923). Solutions 0.01 molar with respect to iron were used. The results are tabulated in Table 2 and shown graphically in Figure 3.

Experi- ment No.	Mols. NaOH added per mol. Fe	рĦ	Mol. ratio SO4 Fe in the solid phase	Remarks
51	0 1.00 2.25 2.50 2.60 2.70 2.90 3.00 3.10	2.6 2.9 3.1 3.2 3.9 4.8 5.8 7.1 7.7 9.8	0. 1825 . 1561 . 1580 . 1363 . 1256 . 0347 0 0	 Precipitate yellow-brown. Tends to disperse on long washing. Do. Do. Do. Color deepening. Tends to disperse on long washing. Do. Do. Deep reddish-brown. No tendency to disperse. Do.
7 9 9 7 8 7 8 7				
10		.04	· ·	²⁰⁸ 12 .16 .20 Mol Ratio <u>SOu</u>

TABLE	2
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The precipitate from ferric alum contains sulfate when there is used less than the stoichometric quantity of alkali necessary to react according to the equation

$Fe^{+++}+3$ (OH) = Fe (OH),

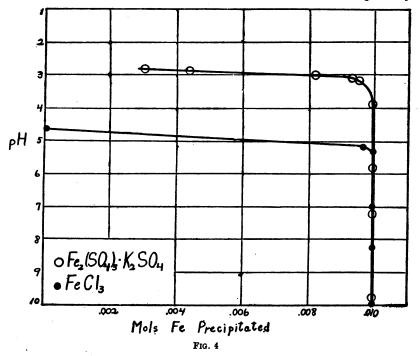
This sulfate is replaceable by other negative ions of equal or greater valence. The precipitate containing sulfate differs from ferric hydrate (which forms when three or more equivalents of alkali are added) in color and in greater tendency to disperse on washing. In all probability it is analogous to the aluminium precipitate (see Miller, 1924) and consists of a solid solution of ferric hydrate with ferric sulfate or with one or more basic ferric salts.

When an attempt was made to determine the composition of the precipitate from the partially alkalinized *ferric chloride* solution the same difficulties were encountered as with *aluminium chloride* (see Miller, 1923). The tendency of the insoluble material to disperse was so great, when less than three equivalents of alkali were added, that no determination could be effected.

In a previous paper from this laboratory it was shown that the pH range over which flocculation of "alum floc" occurred was determined by the nature and concentration of the anions present (Miller, This principle was likewise applied to the formation of the 1925). floc from ferric salts. The effect of chloride ion and sulfate ion upon the pH range of flocculation of the "ferric floc" was determined by treating liter quantities of 0.01 molar ferric chloride and potassium ferric alum, respectively, with varying quantities of sodium hydroxide. The pH was determined colorimetrically and the quantity of iron precipitated was determined quantitatively. In Figure 4 are given graphs representing the results obtained. The floc from ferric alum is almost completely precipitated near a pH value of 3. With ferric chloride, although a solid phase appears as a stable colloid rendering the solution opalescent, flocculation does not occur until a pH value of about 5 has been reached. This is quite analogous to the effects occurring with "alum floc" in presence of these ions.

The results of the experimental work with ferric salts indicate that the "ferric floc" possesses many of the properties of "alum floc." Some of these properties have been enumerated in this article. In relation to the clarification of water by ferric salts, the same three chemical factors which determined the optimum conditions for formation of "alum floc" apply equally to the "ferric floc": (1) There must be present in the water a certain minimum quantity of ferric ion; (2) there must be present an anion of strong coagulating power, such as the sulfate ion; (3) the hydrion concentration must be properly adjusted. "Ferric floc" differs from "alum floc" in the fact that it does not redissolve at higher pH values. Less careful adjustment of pH at the higher values is therefore required in order to form the "ferric floc." The "ferric floc" begins to form at somewhat lower pH values than does "alum floc." This may prove to be an advantage under certain conditions.

One very important principle underlying the use of copperas in water clarification has not been included in this paper. This principle involves the change from the ferrous to the ferric condition in relation to the formation of "ferric floc" and includes especially a



consideration of the rate of oxidation of ferrous compounds at different hydrogen ion concentrations by dissolved oxygen. It is believed, however, that the information contained in this paper upon the properties of the ferrous and ferric systems forms a scientific basis upon which an investigation of this important principle may be made.

Acknowledgment.—I wish to express my appreciation to Prof. William Mansfield Clark, Chief of the Division of Chemistry, Hygienic Laboratory, for generous assistance and advice throughout the course of this investigation.

SUMMARY

1. The electrometric titration curve of ferrous sulfate by alkali has been determined.

2. The composition of the precipitate from ferrous sulfate at varying hydrogen ion concentrations has been determined in a nitrogen atmosphere.

3. The titration curves of ferric alum and ferric chloride by alkali have been made, using colorimetric methods.

4. The composition of the precipitate from ferric alum at varying hydrogen ion concentrations has been determined. The precipitate from ferric chloride did not lend itself to this type of analysis.

5. The ranges of hydrogen ion concentration over which precipitation occurs with ferric alum and ferric chloride has been determined.

6. The relation of these experimental facts to water clarification by copperas has been discussed. The importance of these data as a basis for a further study of principles has been pointed out.

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THE CHRONOLOGICAL DEVELOPMENT OF FEDERAL HEALTH LEGISLATION AND PUBLIC HEALTH AND MEDICAL ACTIV-ITIES

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FOREWORD

The following dates list in proper chronological order various Federal statutes dealing with health and medical matters, the inauguration of especially important activities along these lines by the National Government, and other significant events relating to national vitality. The list does not include every law or circumstance, but only the more important ones. Some are given merely for their historical interest.

Items relating to national health

- 1789: Federal Constitution adopted.
- 1794: An act authorizing the President to convene Congress at a place where there is no hazard to health. Act of April 3, 1794 (1 Stat. 353).
- 1798: Authorizing President to appoint a physician general for the Army. Act of May 28, 1798 (never called into service).
- 1798: Relief of sick and disabled seamen. Act of July 16, 1798 (1 Stat. 605). The foundation for the Marine Hospital Service.
- 1799: Extension of this relief to Navy and provisions for expenditure of funds. Act of March 2, 1799 (1 Stat. 729).
- 1799: To regulate the medical establishment, providing for a physician general, an spothecary general, and a purveyor, and other personnel in the Army. Act of March 2, 1799 (1 Stat. 721).
- 1811: Placing naval hospitals under a board of commissioners of navy hospitals. Act of February 26, 1811 (2 Stat. 650).
- 1813: An act to encourage vaccination. Act of February 27, 1813 (2 Stat. 806). Repealed in 1822 (3 Stat. 677).
- 1813: Army medical establishment reorganized. Act of March 3, 1813 (2 Stat. 818).
- 1818: Creation of Office of Surgeon General of Army. Act of April 14, 1818 (3 Stat. 426).
- 1821: Office of apothecary general in Army abolished. Act of March 2, 1821 (3 Stat. 615).
- 1832: Provision for vaccination of Indian tribes. Act of May 5, 1832 (4 Stat. 514). The first law to deal with the health of Indians.
- 1832: Navy hospitals transferred to Secretary of the Navy. Act of July 10, 1832 (4 Stat. 572).
- 1842: Bureau of Medicine and Surgery established in Navy Department. Act of August 31, 1842 (5 Stat. 579).
- 1848: Examination of imported drugs and medicinal preparations by customs officers authorized. Act of May 17, 1848 (9 Stat. 237). This act remained in force until the pure food law of 1906.
- 1850: First Federal report on mortality statistics. Based on census enumerators' returns.
- 1852: Appropriation of \$100,000 for Government Hospital for the Insane. Act of August 31, 1852 (10 Stat. 92).
- 1855: Government Hospital for Insane organized. Act of March 3, 1855 (10 Stat. 682).
- 1862: Chemist appointed (August 21) in the Department of Agriculture, which had been created by the act of May 15, 1862 (12 Stat. 387).
- 1870: Marine Hospital Service definitely created. Act of June 29, 1870 (16 Stat. 169).
- 1871: Dr. John M. Woodworth appointed (April) Supervising Surgeon of Marine Hospital Service.
- 1871: Establishment of Freedmen's Hospital. Act of March 3, 1871 (16 Stat. 506). Placed under supervision of Secretary of War in 1872, transferred to Department of Interior in 1874.
- 1873-1877: Medical and education division in Office of Indian Affairs.¹
- 1878: Investigation of diseases of animals authorized by appropriation act of June 20, 1878 (20 Stat. 240). Also by act of May 29, 1884 (23 Stat. 32) especially for that purpose.

¹ Information from Office of Indian Affairs.

- 1878: First quarantine law of national acope, charging officers of Marine Hospital Service with its enforcement. Act of April 29, 1878 (20 Stat. 27). Other quarantine laws extending Federal aid to State and local regulations were passed in 1796, 1832, and 1866.
- 1879: National Board of Health established for four years. Acts of March 3, 1879 (20 Stat. 484), and June 2, 1879 (21 Stat. 5). Appropriations were made until 1885, then discontinued. The act creating the board was repealed in 1893 (27 Stat. 452).
- 1880: First death registration area.²
- 1884: Bureau of Animal Industry established under Commissioner of Agriculture. Act of May 29, 1884 (23 Stat. 31).
- 1884: Bureau of Labor established in Interior Department. Act of June 27, 1884 (23 Stat. 60). Became an independent department in 1888, transferred to the Department of Commerce and Labor in 1903, and to the Department of Labor in 1913 as the Bureau of Labor Statistics. From the beginning the bureau has investigated industrial hygiene, housing, and other socio-health conditions.
- 1886: Tax on oleomargarine imposed. Act of August 2, 1886 (24 Stat. 209). Analytical work done by analytical and chemical division of the Bureau of Internal Revenue until the passage of the pure food law of 1906, when it was transferred to the Bureau of Chemistry.
- 1890: First effective measure dealing with interstate control of disease. Act of March 27, 1890 (26 Stat. 31).
- 1890: Medical inspection of immigrants by Federal officers of the Marine Hospital Service begun (April) at the port of New York. An act of 1882 (22 Stat. 214) was the first placing restrictions on the admission of defective aliens.
- 1891: Medical inspection of immigrants extended to all ports. Act of March 3, 1891 (26 Stat. 1084).
- 1893: New quarantine act. Extension of activities of Marine Hospital Service. Act of February 15, 1893 (27 Stat. 449). Still in force. Amended in 1901 (31 Stat. 1086).
- 1894: Appropriation of \$10,000 to Department of Agriculture for a study of nutrition. Act of August 8, 1894 (27 Stat. 264).
- 1901: Appropriation for Hygienic Laboratory under Marine Hospital Service. Act of March 3, 1901 (31 Stat. 1137). The laboratory was not occupied until 1904.
- 1902: Collection of vital statistics by Bureau of the Census (Department of the Interior, transferred to Department of Commerce and Labor in 1903, and to Department of Commerce in 1913) authorized. Act of March 6, 1902 (32 Stat. 52) amended by act of April 27, 1904 (33 Stat. 362). An act of July 1, 1902 (32 Stat. 714) authorized the Public Health and Marine Hospital Service to prepare forms and compile vital statistics.
- 1902: Division of Chemistry raised to status of a bureau in the Department of Agriculture. Act of June 3, 1902 (32 Stat. 303).
- 1902: Name of Marine Hospital Service changed to Public Health and Marine Hospital Service. Act of July 1, 1902 (32 Stat. 712). Various other new provisions.
- 1902: Tests and control of biological products in interstate commerce. Act of July 1, 1902 (32 Stat. 728). This duty was turned over to the Public Health and Marine Hospital Service, which issued the first regulations on February 21, 1903.

³ Information from division of vital statistics, United States Bureau of the Census.

- 1905: Leprosy hospital established in Hawaii. Act of March 3, 1905 (33 Stat. 1009). Operated by the Public Health and Marine Hospital Service. An investigation of leprosy had been authorized in 1899 (30 Stat. 976).
- 1906: The pure food and drugs law passed. Increase of scope of Bureau of Chemistry. Act of June 30, 1906 (34 Stat. 768). In 1918 detail of Public Health Service officers to the Bureau of Chemistry was authorized (40 Stat. 992).
- 1906: Meat inspection law passed. Increase of scope of Bureau of Animal Industry. Act of June 30, 1906 (34 Stat. 679). Other meat inspection laws had been passed in 1890 (26 Stat. 414), 1891 (26 Stat. 1090), and 1895 (28 Stat. 732).
- 1906: Extension of national control of quarantine by purchase of local stations. Act of June 19, 1906 (34 Stat. 299).
- 1909: First organized medical relief for natives of Alaska. Under jurisdiction of Bureau of Education (Department of the Interior). The first definite appropriation for this purpose was not made until 1915 (38 Stat. 822, 862). An officer of the Public Health Service was detailed to assist in health work in Alaska in 1912, following a survey made by the service in 1911.
- 1909: Creation of a health section in the educational division of the Office of Indian Affairs, presumably by department order.
- 1909: National Bureau of Health advocated by President W. H. Taft in his first annual message on December 7. He repeated this recommendation in his second message on December 6, 1910. Bills to this end were introduced in Congress, but were not successful.
- 1910: Bureau of Mines established in Department of the Interior. Act of May 16, 1910 (36 Stat. 369). This was revised in 1913 (37 Stat. 681). Investigations to improve the health and safety of miners were authorized. An act of June 12, 1917 (40 Stat. 146), authorized detail of Public Health Service officers to the bureau.
- 1910: Law prohibiting white-slave traffic (the so-called Mann Act) passed. Act of June 25, 1910 (36 Stat. 825).
- 1911: Division of school hygiene in the Bureau of Education of the Interior Department established by order of the Commissioner of Education.
- 1912: Children's Bureau established in the Department of Commerce and Labor. Act of April 9, 1912 (37 Stat. 79). Transferred to Department of Labor in 1913 (37 Stat. 736).
- 1912: Tax imposed on white phosphorus matches. Act of April 9, 1912 (37 Stat. 81).
- 1912: Name of Public Health and Marine Hospital Service changed to Public Health Service, and field of action extended somewhat. Act of August 14, 1912 (37 Stat. 309).
- 1914: Antinarcotic law, the so-called Harrison Act, passed. Act of December 17, 1914 (38 Stat. 785).
- 1915: First birth registration area.³
- 1916: First Federal child labor law. Act of September 1, 1916 (39 Stat. 675). Administered by Children's Bureau. Declared unconstitutional by the United States Supreme Court, June 3, 1918.
- 1916: Federal employees' compensation law. Act of September 7, 1916 (39 Stat. 742).
- 1917: Federal leprosy hospital authorized. Act of February 3, 1917 (39 Stat. 872). Not occupied until 1920.

Information from division of vital statistics, United States Bureau of the Census.

- 1917: New immigration law. Act of February 5, 1917 (39 Stat. 874). Provisions controlling medical examination now in force.
- 1917: Federal Board for Vocational Education established. Act of February 23, 1917 (39 Stat. 929). A previous law in 1914 had authorized Federal aid to the States (38 Stat. 372).
- 1918: The World War. An order placing all Federal health work, except that of the Army, Navy, and Bureau of Labor Statistics, under the Secretary of the Treasury, through the Public Health Service, was issued by President Wilson on July 1, 1918.
- 1918: Division of venereal diseases created in the Public Health Service, and also an interdepartmental social hygiene board. Act of July 9, 1918 (40 Stat. 886). The latter has received no appropriations since 1922.
- 1918: The Women in Industry Service created in the Department of Labor. Act of July 1, 1918 (40 Stat. 634). Became a permanent bureau, called the Women's Bureau, in 1920. Act of June 5, 1920 (41 Stat. 987).
- 1918: The influenza epidemic. In October \$1,000,000 was appropriated to enable the Public Health Service to combat and suppress the disease (40 Stat. 1088).
- 1919: The child labor tax law, administered by the Bureau of Internal Revenue (40 Stat. 1138). Declared unconstitutional in 1922.
- 1919: Public Health Service authorized to give medical relief to war veterans. Act of March 3, 1919 (40 Stat. 173). The service had already been doing this since October, 1917, through an arrangement with the Bureau of War Risk Insurance. The work was turned over to the Veterans' Bureau when it was created in 1921. Act of August 9, 1921 (42 Stat. 147).
- 1921: Maternity and infancy law passed. Increase of scope of Children's Bureau. Act of November 23, 1921 (42 Stat. 135).
- 1922: Increase of compensation for commissioned officers of Public Health Service. Act of June 10, 1922 (42 Stat. 625).
- 1922: Welfare division established in the Post Office Department by order of the Postmaster General. Now kn wn as th service relations division.
- 1922: Federal Narcotics Control Board created. Act of May 26, 1922 (42 Stat. 596). The act prohibits the importation of crude opium for other than medicinal uses.
- 1923: Bureau of Home Economics established in the Department of Agriculture. Act of February 26, 1923 (42 Stat. 1289). This bureau had been a division of the States Relations Service since 1915, and previously studies had been made under the Office of Experiment Stations since 1894.
- 1924: Bureau of Dairying established in the Department of Agriculture. Act of May 29, 1924 (43 Stat. 243). This bureau had been a division of the Bureau of Animal Industry since 1895.

CITY HEALTH OFFICERS, 1925

Directory of Those in Cities of 10,000 or More Population

Directories of the city health officers in the cities of the United States having a population of 10,000 or more have been published in the Public Health Reports ¹ for each year from 1916 to 1924, for the information of health officers and others interested in public

¹ Reprints Nos. 346, 416, 494, 539, 599, 702, 767, 876, and 930 from the Public Health Reports.

health activities. These directories have been compiled from data furnished by the health officers. The cities included in this directory are those having 10,000 population or more on July 1, 1924, as estimated by the Bureau of the Census.

The asterisk (*) indicates that the officer so designated has been reported to be a "whole-time" health officer. For this purpose a "whole-time" officer is defined as "one who does not engage in the practice of medicine or any other business, but devotes all his time to official duties."

City	Name of health officer	Official title
Alabama:	<u></u>	
Anniston	*G. A. Cryer, M. D	County health officer.
Bessemer		
Birmingham	J. D. Dowling, M. D.	County and city health officer.
Dothan	T. E. Tucker, M. D	City and county health officer.
Florence		
Gadsden	 *C. L. Murphree, M. D *C. A. Mohr, M. D *J. L. Bowman, M. D *L. T. Lee, M. D *A. A. Kirk, M. D 	County health officer.
Montgomery	*I L Bowman M D	Do.
Selma	*L. T. Lee. M. D	Do.
Tuscaloosa	*A. A. Kirk, M. D.	County and city health officer.
Arizona:		
Douglas	Zachery Causey, M. D.	City health officer.
Phoenix	Zachery Causey, M. D L. D. Dameron, M. D A. G. Schnabel, M. D	Do.
Tucson	A. G. Schnabel, M. D.	City physician.
Arkansas:	AT 10 7 1	T. 10 M
Fort Smith	*J. E. Johnson, M. D	Health officer.
Helena	 Mrs. E. G. Miles *Austin F. Barr, M. D. W. C. Overstreet, M. D. *William Leland Holt, M. D., C. P. H. Horroll Achierce, M. D. 	Public health nurse.
Hot Springs	W C Orrestant M D	City health officer.
Jonesboro	*William Leland Halt M D C P H	D0. D0.
North Little Rock	Howall Atkinson M D	City physician
Pine Bluff	Howell Atkinson, M. D Wm. H. Blankenship, M. D	City physician. City health officer.
California:	win. n. biankensing, m. D.	city health onicer.
Alameda	Arthur Hieronymus, M. D.	Health officer.
Alhambra	*S. J. Stewart, M. D. P. J. Cuneo, M. D., LL. B. *William P. Shepard, M. D.	District health officer.
Bakersfield	P. J. Cuneo, M. D., LL. B.	Health officer.
	*William P. Shepard, M. D.	
Chico	C. E. Tovee	City health officer.
Eureka	 *William P. Shepard, M. D *John N. Chain, M. D *Gerhard Kaemmerling, M. D *Geroge Parrish, M. D *George Parrish, M. D W. Morgan, M. D *Frank W. Hodgdon, Jr., M. D	City physician and health officer. Health officer.
Fresno	C. Mathewson, M. D.	Health officer.
Glendale	*Gerhard Kaemmerling, M. D	Do.
Long Beach	G. E. McDonald, M. D.	City health officer.
Los Angeles	George Parrish, M. D	Health commissioner.
Modesto Oakland	J. W. Morgan, M. D.	City health officer.
Pasadena	*Frank W Hodgdon in M D	Health officer. City health officer.
Pomona	*Fugene F Fonteine M D	Deputy county health officer.
Richmond	Charles Robert Blake M D	Commissioner of health.
Riverside	W. B. Wells, M. D	Health officer.
San Bernardino	Colin C. Owen, M. D	City health officer.
San Bernardino	*Alex M. Lesem, M. D.	Health officer and superintendent. Health officer and registrar.
San Francisco	*William C. Hassler, M. D., Ph. G	Health officer and registrar.
San Jose	Henry C. Brown, M. D.	Health officer.
Santa Ana	Walter William Cress, M. D. Colin C. Owen, M. D. *Alex M. Lesem, M. D. William C. Hassler, M. D., Ph. G. Henry C. Brown, M. D. *V. G. Preston, M. D. William H. Eaton, M. D. W. R. Congdon, M. D. A. C. Weaver, M. D. Edward A. Peterson, M. D. L. B. Sands, M. D.	County health officer.
Santa Barbara	*William H. Eaton, M. D	Health officer.
Santa Cruz	W. R. Congdon, M. D.	Do.
Santa Monica	A. C. Weaver, M. D.	City health physician.
Stockton	*John J. Sippy, M. D	District health officer.
Vallejo	Edward A. Peterson, M. D.	City health officer.
Venice	*J. B. Sands, M. D	Do.
Boulder	I II Puch M D	Director of public health
Colorado Springs	Omer P. Gillett M. D.	Director of public health.
Denver	*Fthal D Humphrove M D	City health officer.
Greeley	Burgen Woodcock M D	Manager of health and charities. City physician.
Pueblo	J. H. Bush, M. D. Omer R. Gillett, M. D. *Ethel D. Humphreys, M. D. Burgen Woodcoek, M. D. W. E. Buck, M. D.	Chief, department of health and sani-
	G. W. Robinson, M. D.	tation.
Trinidad	G. W. RODINSON, M. D.	City physician.
Ansonia	Frederick C. Goldstein, M. D.	Health officer.
Daldarent	*William H. Coon, M. D	Do.
Bridgebort		
Bridgeport Bristol	Joseph I. Woisard, M. D.	Do.

City	Name of health officer	Official title
Connecticut-Contd.	There B Dischett M D	TT-slab - @
Derby East Hartford	Thomas F. Plunkett, M. D.	Health officer. Do.
Enfield	F. H. Mayberry, M. D. Frank F. Simonton, M. D. *Laurence E. Poole, M. D. Albert E. Austin, M. D. Frank W. Hewes, M. D. *Charles P. Botsford, M. D.	Do.
Fairfield	*Laurence E. Poole, M. D.	Do.
Greenwich	Albert E. Austin, M. D	Do.
Groton Hartford	Charles P. Roteford M. D.	Do. Superintendent of health and registren
Manchester	D C Y Moore M D	Superintendent of health and registrar. Chairman, board of health.
Meriden	Joseph A. Cooke, M. D.	Health officer.
Middletown	Charles F. Botstord, M. D. D. C. Y. Moore, M. D. Joseph A. Cooke, M. D. Thomas P. Walsh, M. D. Willis S. Putney, M. D.	Do.
Milford	Willis S. Putney, M. D	Town health officer.
Naugatuck New Britain	*Pichard W Pullon M D	Health officer.
New Haven	 John L. Rice, M. D. Benjamin N. Pennell, D. V. S. Robert E. Perdue, M. D. Edward J. Brophy, M. D. 	Do.
New London	*Benjamin N. Pennell, D. V. S	Do.
Norwalk	Robert E. Perdue, M. D.	City health officer. Do.
Norwich Orange		D0.
Shelton	Gould A. Shelton, M. D. *Raymond D. Fear, M. D., Dr. P. H. Charles F. Congdon, M. D. DeRuyter Howland, M. D.	Do.
Shelton Stamford Stonington 1	*Raymond D. Fear, M. D., Dr. P. H.	Health commissioner.
Stonington 1	Charles F. Congdon, M. D.	Town health officer.
Stratford	Dekuyter Howland, M. D	Do.
Torrington Wallingford	Wm, Joseph Riordan, M. D	Health officer.
Waterbury West Hartford	*Thomas J. Kilmartin, M. D.	Do.
West Hartford	Wm. Joseph Riordan, M. D *Thomas J. Kilmartin, M. D Ralph W. E. Alcott, M. D Wm. P. S. Keating, M. D	Do.
Willimantic Delaware:	Wm. P. S. Keating, M. D.	City health officer.
Wilmington	Fred F. Armstrong, M. D	Secretary, board of health.
District of Columbia: Washington	*Wm. C. Fowler, M. D	Health officer.
Florida: Jacksonville	*Noble A. Upchurch, M. D.	City health officer.
Key West	*Noble A. Upchurch, M. D. Eugene C Lowe, M. D.	Do.
Miami	[•] W. T. Lanier, M. D. Sylvan McElroy, M. D.	Chief, division of health.
Orlando Pensacola	Sylvan McElroy, M. D	City physician.
St. Petersburg	Ray Davies, M. D.	Health commissioner.
Tampa West Palm Beach	Ray Davies, M. D *A. C. Hamblin, M. D *E. D. Clawson, V. M. D	City_health officer.
	*E. D. Clawson, V. M. D	Do.
Georgia: Albany	*Hugo Robinson, M. D., Ph. G	Commissioner of health.
Athens	*I D Anniewhite M D	County health commissioner.
Atlanta	 John P. Kennedy, M. D. *Harry B. Neagle, M. D., D. P. H. *H. L. Akridge, M. D. 	City health officer.
Augusta	*Harry B. Neagle, M. D., D. P. H	Commissioner of health.
Brunswick Columbus	•H. D. Akridge, M. D.	Do. Health officer.
La Grange	*C. S. Kinzer, M. D *Chas, L. Ridley, M. D *Buena Vesta Elmore, M. D Victor H. Bassett, M. D *Gordon T. Crozier, M. D *George E. Atwood, M. D	Do.
Macon	*Chas. L. Ridley, M. D.	City health officer.
Rome	*Buena Vesta Elmore, M. D	Commissioner of health.
Savannah	*Victor H. Bassett, M. D.	City health officer. Do.
Valdosta Waycross	*George F. Atwood M. D.	Commissioner of health
Idaho:		
Boise Pocatallo	*R. H. Pratt H. H. Hughart, M. D	Health officer.
	H. H. Hughart, M. D	City physician.
Illinois: Alton	D F Duggen M D	Health commissioner.
Aurora	D. F. Duggan, M. D Geo. W. Haan, M. D	Do.
Belleville		
Berwyn		TT 141 11
Bloomington	*Charles E. Shultz, M. D.	Health director. Commissioner of health.
Cairo	*Louis A. Burkhart B. S. Hutcheson, M. D	City health officer.
Canton	2	
Centralia		_
Champaign	W. E. Schowengerdt, M. D *Herman N. Bundesen, M. D	Do. Commissioner of health.
Chicago Chicago Heights	E F Hay M D	Health physician.
Cicero	J. J. Hood. M. D	Commissioner of health.
Collinsville	E. F. Hay, M. D. J. J. Hood, M. D. R. H. Greaves, M. D.	
Danville	W. C. Dixon, M. D.	Health commissioner.
Decatur East Moline	I Henry Fowler M D	Director of health. City health officer.
East St. Louis	*John T. Connors.	Commissioner of health.
Elgin	*A. L. Mann, M. D.	City physician.
Evanston	Clarence T. Roome, M. D.	Commissioner of health.
Forest Park	Hermann P. A. Carstens, M. D	Health commissioner. Commissioner of health.
Galesburg	*E. M. Ellsworth	City health officer.
Freeport Galesburg Granite City	R. H. Greaves, M. D. W. C. Dixon, M. D. *Wm. S. Keister, M. D. J. Henry Fowler, M. D. *John T. Connors. *A. L. Mann, M. D. Clarence T. Roome, M. D. Hermann P. A. Carstens, M. D. Robert J. Burns, M. D. Robert J. Burns, M. D. Bilsworth. J. J. Fitzgerald, M. D. M. R. Morse, M. D.	City physician. Health officer.
Harvey	M. R. Morse, M. D.	Health officer.

¹Address, Mystic, Conn.

City	Name of health officer	Official title
Illinois—Continued		
Herrin	Wm. G. Davis	President, board of health.
Jacksonville	*Thomas Allen Mann. M. D	Director of health
Joliet		Commissioner of health.
Kankakee	\mathbf{U} \mathbf{U} \mathbf{K} . Smith, \mathbf{M} \mathbf{D}	Health officer.
Kewanee La Salle	*E W Weig M D	Superintendent of health. Health commissioner.
Lincoln	*Oscar Blackford	Health officer.
Marion	W. Edw. Reid, M. D.	President, board of health.
Mattoon	R. J. Coultas, M. D	City health officer.
Maywood	K. L. Reynolds, M. D	Health officer.
Moline	. *E. A. Edlen, M. D	City physician.
Mount Vernon	Por Ferier M. D	Health officer.
Murphysboro Oak Park		Commissioner of health.
Ottawa	Enos E. Palmer. M. D.	Health officer.
Pekin	L. R. Clary, M. D.	Do.
Peoria	Joel A. Eastman, M. D.	Commissioner of health.
Quincy	Wm. D. Wrightson	Public health officer.
Rock Island	Harry Frey, M. D. *N. O. Gunderson, M. D.	Health commissioner.
Rockford		Commissioner of health. Superintendent of health.
Springfield Streator	*Arthur Goff	Health officer.
Urbana	George F. Way, M. D	Do.
Waukegan	Howard C. Hoag, M. D.	City physician.
West Frankford	*Arthur Gaff George F. Way, M. D Howard C. Hoag, M. D H. L. Davis ,M. D	Do.
Indiana:		
Anderson	E. M. Conrad, M. D.	Secretary, board of health.
Bloomington	U. E. Harris, M. D.	Do. Do.
Clinton Connersville	B R Smith M D	Do.
Crawfordsville	Aubrey L. Loop, M. D	City health officer.
East Chicago	M. A. Given, M. D.	Secretary, board of health.
Elkhart	*E. C. Meyers	Secretary, board of health. Health officer.
Elwood Evansville	Harry W. Fitzpatrick, M. D.	Secretary, health department.
Evansville	Wallace C. Dyer, M. D.	Secretary, board of health.
Fort Wayne Frankford	A G Chittick M D	Do. City health officer.
Gary	C. M. Revher, M. D	Secretary, board of health.
Gary Hammond	Wm. A. Buchanan, M. D.	Do.
Huntington	R. F. Frost, M. D.	Do.
Indianapolis	E. M. Conrad, M. D. C. E. Harris, M. D. Isaac D. White, M. D. B. R. Smith, M. D. M. A. Given, M. D. M. A. Given, M. D. *E. C. Meyers. Harry W. Fitzpatrick, M. D. Wallace C. Dyer, M. D. John H. Glipin, M. D. A. G. Chittick, M. D. C. M. Reyher, M. D. Wm. A. Buchanan, M. D. R. F. Frost, M. D. Herman G. Morgan, M. D. D. L. Field, M. D. Thomas C. Cochran, M. D. A. J. Bauer, M. D.	Do.
Jeffersonville	D. L. Field, M. D.	Do. City health affinan
Kokomo Lafayette	A I Bener M D	City health officer. City health commissioner.
LaPorte	A. J. Bauer, M. D. John Pracher, M. D.	City health officer.
Logansport	*Fred G. Six	Health inspector.
Michigan City	Nelle C Reed M D	Health officer.
Marion	V. V. Cameron, M. D. Leo P. Van Rie, M. D. U. G. Poland, M. D. Chester C. Funk, M. D., Ph. G	Secretary, board of health.
Mishawaka	Leo P. Van Rie, M. D.	Do. Do.
Muncie New Albany	Chester C. Funk M. D. Ph. G	Do.
New Castle	Wm. C. Heilman, M. D.	Do.
Peru		
Richmond	Charles F Duffin M D	City health officer.
South Bend	Charles E. Bosenbury, M. D. George T. Johnson, M. D.	Secretary, board of health.
Terre Haute	Gloring T. Johnson, M. D.	Do.
Vincennes	Clarke E. Stewart, M. D.	Do. Do.
Wabash Whiting	L. O. Sholty, M. D E. L. Dewey, M. D	Do. Do.
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Boone	Wm. Woodburn, M. D.	Health officer.
Burlington	George H Steinle M D	Do.
Cedar Rapids	*Anton Flusty.	Do.
Clinton	H. R. Sugg, M. D.	Do.
Council Bluffs Davenport		Do. Do.
Des Moines	*H. L. Savler, M. D	Health commissioner.
Dubuque.	*D. C. Steelsmith, M. D., C. P. H	Director of health.
Fort Dodge	*H. L. Sayler, M. D. *D. C. Steelsmith, M. D., C. P. H *E. S. Welch. Geo. H. Scanlon, M. D. Bruce, L. Gildlan, M. D.	Health officer.
Iowa City	Geo. H. Scanlon, M. D.	City health physician.
Keokuk		Do.
Marshalltown	B. L. Frey, M. D. Matthew J. Fitzpatrick, M. D.	Health officer.
Mason City	Matthew J. Fitzpatrick, M. D.	Health physician:
Muscatine Ottumwa	I W Elerick M D	City health physician. City health officer.
Sioux City	A. L. Bryan, M. D. J. W. Elerick, M. D. *W. D. Hayes, C. P. H.	Commissioner of health.
Waterloo	J. R. Thompson, M. D.	City health officer.
ansas:		-
Arkansas City	Ernest F. Day, M. D. Charles W. Robinson, M. D.	Chairman, board of health City health officer.
Atchison	Unaries W. Robinson, M. D.	City health officer. City physician.
Ohemate		CALV THEVSELBED.
Chanute	M. A. Duncan, M. D.	Do
Coffevville	Walter H. Wells, M. D.	Do. City health officer.

City	Name of health officer	Official title
Kansas-Continued	· · · · · · · · · · · · · · · · · · ·	
Fort Scott	C. L. Mosley, M. D.	Assistant collaborating epidemiologist,
Hutchinson		Assistant collaborating epidemiologist, U. S. P. H. S. City physician
Independence Kansas City		Commissioner of health and sanitation.
Lawrence	H. L. Chambers, M. D.	Superintendent, health department
Leavenworth Newton	Cyrus D. Lloyd, M. D	City health officer.
Parsons	L. B. Kackley, M. D.	County health officer. Health officer.
Pittsburg Salina	Ralph E. Jenkins, M. D	City health officer.
Topeka.	*Earle G. Brown, M. D.	Do.
Wichita Kentucky:	*D. H. Cooper, M. D	Director of public welfare.
Ashland	Tomore D. Diffle M. D.	
Covington Henderson		City health officer. Do.
Lexington	*Charles H. Voorhies, M. D.	Do.
Louisville Newport	John Todd, M. D.	Do. Do.
Owensboro Paducah	*Robert M. Hathaway, M. D *J. Ernest Fox, M. D	Director of health. Do.
Louisiana:	7. 14 1630 F 04, 14. 17	10.
Alexandria Baton Rouge	J. A. Parker, M. D. T. Jeff McHugh, M. D. J. G. Martin, M. D. John Schriber, M. D. E. L. Leckert, M. D. A. G. Heath, M. D.	Chairman, board of health. President, city board of health.
Lake Charles	J. G. Martin, M. D.	City health officer.
Monroe New Orleans	*John Schriber, M. D.	Health officer. Superintendent of health.
Shreveport	A. G. Heath, M. D	President, department of health
Maine: Auburn		Health officer.
Augusta	*C. E. Williams, M. D. George A. Coombs, M. D. *H. D. McNeil, M. D.	Do.
Bangor Bath	*H. D. McNeil, M. D	Do. City sanitarian.
Biddeford	*Chester S. Kingsley. *John W. Mahoney. *L. J. Dumont, M. D *Thomas Tetreau, M. D	Health officer.
Lewiston Portland	*L. J. Dumont, M. D. *Thomas Tetreau, M. D	Do. Do.
Sanford	*C. W. Blagden, M. D. Reginald T. Lombard, M. D.	Do.
South Portland Waterville	*William James Young, M. D	Do. Do.
Maryland:		
Annapolis Baltimore	*Charles Hampton Jones, M. D	Commissioner of health and registrar
		of vital statistics.
Cumberland	*Harvey H. Weiss	City health officer and registrar of vital statistics.
Frederick Hagerstown	*E. C. Kefauver, M. D. Henry R. Kritzer, M. D.	Assistant deputy State health officer.
Massachusetts:	Hein'y R. Kiltzer, M. D	County health officer.
Adams.	*L. French, M. D.	District health officer.
Amesbury Arlington Athol	*William H. Bradley	Agent, board of health. Do.
Athol Attleboro	Marion B. Sibley, M. D.	Health officer. Do.
Belmont Beverly	*H. E. Berger, jr., C. P. H.	Agent, board of health.
Beverly Boston	*L. French, M. D. Charles B. Kingsbury *William H. Bradley. Marion B. Sibley, M. D. William O. Hewitt, M. D. *H. E. Berger, Jr., C. P. H. *Alonzo O. Woodbury. *Francis X. Mahoney, M. D., M. D. V. Joseph G. Balley. David B. Tuholski, M. D. Francis P. Denny, M. D. S. B. Kelleher, M. D. *John F. Welch.	Do. Health commissioner.
Braintree	Joseph G. Bailey	Chairman, board of health.
Brockton Brookline	David B. Tuholski, M. D. Francis P. Denny, M. D.	Health officer. Do.
Cambridge	S. B. Kelleher, M. D.	Medical inspector.
Chelsea Chicopee	*John F. Welch	Health officer. Agent and secretary.
Clinton	*Gertrude M. DeWitt *Frederick E. Murphy *Hugo Nappe	Agent, heard of health
Danvers Dedham		Health officer.
Easthampton	Clemence C Buckner *William Gess	Agent, board of health.
Everett Fall River	*Samuel B. Morriss	Health officer. Agent, board of health.
Fitchburg		Do.
Framingham Gardner	*E. B. Johnson *Wm. P. O'Donnell	Agent and executive officer. Agent, board of health.
Gloucester		
Greenfield Haverhill	*Geo. P. Moore *George T. Lennon	Health agent. Agent and clerk.
Holvoke	*George T. Lennon *J. Sidney Wright Lober B. Kong	Agent and health officer.
Lawrence Leominster	John P. Kane	Chairman, board of health.
Lowell	 Francis J. O'Hare	Agent, board of health.
Lynn Malden	*Frederick Walmsley	Commissioner of public health Health inspector.
Marlboro	*John J. Cassidy	Agent, board of health.
Medford Melrose	Clarence P. Holden, M. D.	Chairman, board of health
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City	Name of health officer	Official title
Massachusetts—Con.		
Methuen	*Albert Slack	Clerk, to rd of health.
Milford	*Paul W. Kimball, M. D.	Sanitary inspector.
Milton	*Paul W. Kimball, M. D.	Agent, b. a.d of health.
Natick	I nomas F. Morris	. Do.
New Bedford	*Wm. G. Kirschbaum	Agent and executive officer.
Newburyport	William Thurston	Agent and clerk. Chairman, board of health.
Newton North Adams	*William Thurston *Francis Geo. Curtis, M. D *Douglas W. Hyde	Chairman, board of health.
North Adams	Douglas W. Hyde	Agent, board of health.
Northampton	George R. Turner	Do.
Northbridge	I Daniel C. Duggan	Chairman, board of health. Health officer.
Norwood Palmer	I P Schneider M D	Chairman, board of health.
Peabody	 James J. Ray. *Willys M. Monroe, M. D. Walter D. Shurtleff, M. D. Fred A. Bartlett, M. D. *Joseph E. Lamb, M. D. *John J. McGrath. 	Agent, board of health.
Peabody Pittsfield	*Willys M. Monroe, M. D	City health officer.
Plymouth	Walter D. Shurtleff, M. D.	Do.
Quincy	Fred A. Bartlett, M. D.	Health commissioner.
Revere	*Joseph E. Lamb, M. D.	Health officer.
Salem	*John J. McGrath	Agent, board of health.
Saugus	Charles E. Light	Chairman, beard of health
Somerville	Frank L. Morse, M. D.	Medical inspector and bacteriologie
Southbridge	*Albert R. Brown	Agent, board of health.
Springfield	*Jacob R. Sackett. T. F. Cusick, M. D	Do.
Taunton	T. F. Cusick, M. D	Health officer.
Wakefield	Devid Toggert	Health officer and agent.
Waltham	Charles B. Fuller, M. D.	Director, public welfare commission.
Watertown	*John W. Tapper	Health officer.
Webster	** * * *	A
West Springfield	*J. J. Lysaght. R. M. Marr., M. D F. L. Doucett, M. D	Agent, board of health.
Westfield	F I Demost M D	Health officer.
Weymouth Winchester	*Maurice Dinneen	Clerk of board.
Winthrop	*H. C. Daniels	Health officer. Do.
Woburn	*Edward F Gorman	Agent and secretary.
Worcester	*Edward F. Gorman. *Thomas F. Kenney, M. D	Director, board of health.
Michigan:		Director, board of hearth.
Adrian	Emily Stark, M. D.	Health officer
Alpena	Emily Stark, M. D. D. A. Cameron, M. D.	City physician
Ann Arbor	John A. Wessinger, M. D.	City physician. Health officer.
Battle Creek	John A. Wessinger, M. D. *A. A. Hoyt, M. D. Geo. W. Moore, M. D. Carl A. Mitchell, M. D. Debries M.	Do.
Bay City	Geo. W. Moore, M. D.	Do
Benton Harbor	Carl A. Mitchell, M. D.	Director of public health
Cadillac	 Carl A. Mitchell, M. D. Tenry F. Vaughan, D. P. H *Harry J. Defnet, M. D *Robert A. Stephenson, M. D. *C. C. Slemons, M. D. T. T. Dysarz, M. D. William N. Braley, M. D. 	City health officer.
Detroit	*Henry F. Vaughan, D. P. H.	Commissioner of health.
Escanaba	*Harry J. Defnet, M. D.	Do.
Flint	*Robert A. Stephenson, M. D.	City health officer.
Grand Rapids	C. C. Slemons, M. D.	Health officer.
Hamtramck	T. T. Dysarz, M. D.	Do.
Highland Park	william N. Braley, M. D	Do.
Holland Ironwood	*Louis Dornet M D	Do.
Ishpeming	*Goorge G Bernett M D	D0.
Jackson	*Floyd B Town M D	D0. D0.
Kalamazoo	*Alvin H Rockwell M D	Do.
Lansing	*Louis Dorpat, M. D *George G. Barnett, M. D *Floyd R. Town, M. D. *Alvin H. Rockwell, M. D *S. Rowland Hill, M. D *L. L. Youngouist M. D.	Health director.
Marquette	 S. Kowiadu Hill, M. D. Varnum C. Southworth, M. D. Edward G. Folsom, M. D. R. J. Harrington, M. D. William Chaojin M. D. 	City health officer.
Monroe	Varnum C. Southworth, M. D.	City physician.
Mount Clemens	Edward G. Folsom, M. D.	City physician. Health officer.
Muskegon	R. J. Harrington, M. D.	Do.
Muskegon Heights		Do.
Owosso	R. C. Mahaney, M. D.	Do.
Pontiac	R. C. Mahaney, M. D. *C. A. Neafie, M. D. *Gertrude O'Sullivan, M. D.	Director of public health.
Port Huron	*Gertrude O'Sullivan, M. D	Health officer.
River Rouge	CINIC STRUCK M LD	Do.
Saginaw	*Stuart Yntema, M. D.	Do.
Sault Ste. Marie	*John J. Griffin, M D. George A. Holliday, M. D.	Do.
Traverse City		Do.
Wyandotte		
linnesota:	*D W Hanny	0
Albert Lea	*P. W. Henry Clifford C. Leck, M. D.	Secretary and executive officer.
Austin Brainerd	Joseph Nicholson M D	Usalth officer
Duluth	Lincoln & Sukeforth M D	Chairman, board of health. Health officer. Director of public health.
Faribault	Frederick II Davie M D	Health commissioner.
Hibbing	Hugh W Roynolde M D	Chairman, board of health.
Mankato	Thomas C Kelly M D	Health commissioner.
Minneapolis	Clifford C. Leck, M. D Joseph Nicholson, M. D Frederick U. Davis, M. D Thomas C. Kelly, M. D *Francis E. Harrington, M. D., LL. D. *C. H. Mayo, M. D. *Paul Scherer, M. D. *Benj, F. Simon, M. D. Benj, F. Simon, M. D. *Benj, F. Simon, M. D.	Do
Rochester	*C H Mayo M D 2	Health officer
St. Cloud	*Paul Scherer, M. D.	Do
St. Paul	*Beni, F. Simon, M D	Do
Virginia	R. P. Pearsall, M. D	Do.

A full-time deputy health officer employed.

City	Name of health officer	Official title
Mississippi:		
Biloxi	G. F. Carroll, M. D. W. J. C. Wiemers, M. D.	City health officer.
Columbus	*A. J. Ware, M. D.	- Do. - Do.
Hattiesburg		
Jackson Laurel	*James B. Black, M. D., C. P. H *J. M. Kittrell, M. D.	Director, county health department.
Meridian	T. J. Houston, M. D.	City health officer.
Natchez.	W. H. Aikman, M. D. S. Myers, M. D.	Do. Do.
Vicksburg Missouri:		
Cape Girardeau		. Do.
Carthage Columbia	W. E. Steele, M. D.	City physician. City health commissioner.
Hannibal		City heaten commissioner.
Independence		City health officer.
Jefferson City Joplin	*M B Herntun M D	Commissioner of health.
Kansas City	[•] M. B. Harutun, M. D. Herman E. Pearse, M. D. C. H. Dixon, M. D.	Do.
Moberly	C. H. Dixon, M. D	. Do.
Sedalia St. Joseph	William W. Gray, M. D.	Health officer.
Saint Louis	I May C. Starkloff, M. D.	Health commissioner.
Springfield	*Lon Sharp	Do. Do.
Montana:	••••••••••••••••	. D0.
Anaconda	Gail R. Soper, M. D. J. I. Wernham, M. D.	City_health officer.
Billings	J. I. Wernham, M. D	Do. City physician.
Butte Great Falls	J. B. Freund, M. D *William H. Pickett, M. D	Field agent, U. S. P. H. S., and health
		officer.
Helena Missoula	*Arthur Jordan, M. D. *F. D. Pease, M. D.	De. Health officer.
Nebraska:	F. D. Fease, M. D.	Health oncer.
Grand Island	Frank D. Ryder, M. D.	City physician.
Hastings Lincoln	Chouncey F Chenman M D Ph Q	Superintendent of health.
North Platte	*Chauncey F. Chapman, M. D., Ph.G. Josiah B. Redfield, M. D	City physician.
Omaha		
Nevada: Reno	A. F. Adams, M. D	Secretary, board of health.
New Hampshire:		
Berlin	*Harry F. Leeds. William P. Prescott Charles E. Palmer William E. Whiteley	Health officer.
Claremont	*Charles E Palmer	Do. Sanitary officer.
Dover	*William E. Whiteley	Executive officer.
Keene Manchester	*Fred C. Nims	Health officer. Do.
Nashua	P. J. McLaughlin, M. D.	Do.
Nashua Portsmouth	 Wintam E. Winteley. Fred C. Nims. Howard A. Streeter, M. D P. J. McLaughlin, M. D L. R. Hazzard, M. D 	Sanitary inspector.
Rochester New Jersey:		
Asbury Park	*Budd H. Obert	Health officer and registrar of vital
		statistics.
Atlantic City Bayonne	Samuel L. Salasin, M. D William W. Brooke, M. D	Health officer. Do.
Belleville	TMADE M L'ISTRA	Do.
Bloomfield	"Joseph C. Salle, P. H. G., D. V. S	Do.
Bridgeton Camd en	*Charles E. Bellows, Ph. G *A. L. Stone, M. D.	Sanitary inspector. Director of public health.
Carteret	*A. L. Stone, M. D. H. L. Stranoberg, M. D.	Health officer.
Clifton Collingswood	Edw. B. Rogers, M. D	Madical inepactor
Dover	*John G. Taylor	Medical inspector. Health officer.
East Orange	*F. J. Osborne	Health officer and registrar of vital
Elizsbeth	*Louis J. Richards	statistics. Health officer.
Englewood	John J. Manson Chas. B. Bleasby, M. D. J. Alonzo Beek, M. D.	Sanitary inspector.
Garfield	Chas. B. Bleasby, M. D.	Health officer.
Glo ng ester Hackensack	*L. Van D. Chandler	Do. Do.
Harrison	*John T. McClure	Do.
Hoboken	*L. Van D. Chandler John T. McClure J. F. Stack, M. D. Paul C. Schotte 'James J. Hagan "Henry V. Amerman H. H. Brevoort, M. D. *R. Clifford Errickson	Commissioner of health.
Irvington Jersey City	*James J. Hagan	Health officer. Do.
Kearny	*Henry V. Amerman	Do
Lodi Long Branch	H. H. Brevoort, M. D.	Health inspector.
Millville.	R. UHHOFU EFFICKSON	Health officer.
Montclair	*Carl T. Pomeroy, C. P. H.	Do.
Morristown	John F. Kilkenny.	Sanitary inspector.
New Brunswick	*Carl T. Pomeroy, C. P. H. *John F. Kilkenny. *Charles V. Craster, M. D., D. P. H E. I. Cronk, M. D. *Eugene H. Sullivan.	Health officer. Do.
Nutley	*Eugene H. Sullivan	Do.
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July 3, 1925

City	Name of health officer	Official title
New Jersey-Continued.		
Orange	*Lenore Young, R. N	statistics
Passaic	John N. Ryan, M. D *Frederick P. Lee, M. D *Chais. S. Thompson, D. V. S Alma Williston, M. D *N. J. Randolph Chandler *Fred N. Williams	- Health officer.
Paterson	*Frederick P. Lee, M. D.	- Do. - Do.
Perth Amboy Phillipsburg	Alma Williston, M. D.	Health inspector.
Plainfield	*N. J. Randolph Chandler	Health officer.
Rahway Red Bank	*Fred N. Williams	. Do.
Ridgefield Park	William F. Reynolds, D. V. M	Sanitary inspector.
Rutherford	Marine Linn	1 D0.
Summit Trenton	H. P. Dengler, M. D. Alton S. Fell, M. D. J. E. L. Imbleau, M. D.	Bealth officer.
Union	J. E. L. Imbleau, M. D.	Medical health officer.
West Hoboken	*Frank A. Frederick *Rudolph Kunze	. Health officer.
West New York Westfield	*Andrew Carney	Chief inspector. Health officer.
West Orange	*Andrew Carney *David E. Buckley	Health officer and registrar.
New Mexico:		
Albuquerque New York:	*James R. Scott, M. D	Health officer.
Albany	James W. Wiltse, M. D.	Health officer.
Amsterdam	Julius Schiller, M. D	Commissioner of health
Auburn Batavia	John W. Baker, M. D.	Health officer.
Beacon		
Binghamton Buffalo	Chalmer J. Longstreet, M. D. L. P.	Do.
Cohoes	Edward M. Bell, M. D.	Health commisioner. Do.
Corning	Henry E. Elwood, jr., M. D	Health officer.
Cortland	A. C. Knapp, M. D.	Do. Do.
Dunkirk Elmira	Reeve B. Howland, M. D.	Do.
Endicott	*D. W. Hardy, M. D.	Do.
Freeport Fulton	Wm. H. Kuncle, M. D., D. P. H	Health commissioner. Health officer.
Geneva	C. W. Grove, M. D.	Do.
Geneva Glens Falls	*Virgil D. Selleck, M. D., C. P. H	Do.
Gloversville Herkimer	John W. Baker, M. D. Chalmer J. Longstreet, M. D. *Francis E. Fronczak, M. D., LL. B. Edward M. Bell, M. D. Henry E. Elwood, jr., M. D. A. C. Knapp, M. D. Geo. E. Ellis, M. D. Reeve B. Howland, M. D. *D. W. Hardy, M. D. Wm. H. Runcie, M. D., D. P. H. C. L. Fessenden, M. D. C. W. Grove, M. D. *Virgil D. Selleck, M. D., C. P. H. Alexander L. Johnson, M. D. James W. Graves, M. D. B. R. Wakeman, M. D. Charles R. Skinner, M. D. Frank B. Conterman, M. D.	Do. Do.
Hornell	B. R. Wakeman, M. D.	Do.
Hudson	Charles R. Skinner, M. D.	Do.
Ilion Ithica	Frank R. Skillier, M. D. Frank B. Conterman, M. D. *Lewell T. Genung, M. D. *John J. Mahoney, M. D. Rollin O. Crosier, M. D. F. M. Neuendorf, M. D. Doniel Conzolly M. D.	Do. Do.
Jamestown	*John J. Mahoney, M. D.	Superintendent of public health.
Johnson City	Rollin O. Crosier, M. D.	Health officer. City physician and health officer
Johnstown Kingston	Daniel Connelly, M. D.	Health officer.
Lackawanna	Daniel Connelly, M. D. A. S. Culkowski, M. D.	Do.
Little Falls Lockport	A. B. Santry, M. D. Thomas E. Spalding, M. D.	Do. City physician.
Middletown	H. J. Shelley, M. D.	Health officer.
Mount Vonnon	Wm II Durdr M D	Commissioner of health.
New Rochelle	*Frank I Monaghan M D	Do.
Newburgh	Thomas J. Burke, M.D.	Health officer.
Niagara Falls North Tonawanda	Edward E. Gillick, M. D.	Do. Do.
Ogdensburg	John W. Benton, M.D.	Do.
Olean	W. E. MacDuffie, M. D.	Commissioner of health.
Oneida	Nelson D. Brooks, M. D	Health officer.
Oneonta Ossining	Amos Osborn Squire, M. D.	Do. Do.
Oswego Peekskill	Harvey S. Albertson, M. D.	Do.
Peekskill	Fred. A. Snowden, M. D.	Do. Do.
Plattsburg Port Chester	Wm. J. Sheehan, M. D.	Do.
Port Jervis	G. Otto Pobe, M. D.	Do.
Poughkeepsie	*Wm. G. Conger, M. D.	Do. Do.
Rensselaer Rochester	 Win, H. Putty, M. D. Frank J. Monaghan, M. D. Thomas J. Burke, M.D. Edward E. Gillick, M. D. Henry C. Lapp, M. D. John W. Benton, M.D. W. E. MacDuffie, M. D. Nelson D. Brooks, M. D. Geo. W. Augustin, M. D. Harvey S. Albertson, M. D. Fred. A. Snowden, M. D. Fred. A. Schiff, M. D. Wm. J. Sheehan, M. D. Wm. G. Conger, M. D. D. F. Hannon, M. D. S. George W. Coler, M. D. 	Do.
Rome	*George W. Goler, M. D. Roy J. Marshall, M. D. L. D. Gunn, M. D. Charles B. Small, M. D. L. H. Colling, M. D.	D0.
Salamanca	L. D. Gunn, M. D. Charles B. Small M. D.	Health commissioner. City health officer.
Schenectau y	J. H. Collins, M. D	Commissioner of health.
Syracuse	J. H. Collins, M. D. Thomas P. Farmer M. D.	Commissioner of health.
Tonawanda Troy	John T. Harris, M. D. Wm. N. Champaigne, M. D.	Health officer. Do.
Utica	Hugh H. Shaw, M. D	Do.
Watertown	Maurice D. Barnette, M. D.	Do.
Watertown	Charles A. Diania 1. 197 D	
Watervliet White Plains	Maurice D. Barnette, M. D. Charles A. Birmingham, M. D. Edwin G. Ramsdell, M. D.	Do. Do.

City	Name of health officer	Official title
North Carolina:		
Asheville Charktt3	*Wilbur A. McPhaul, M. D.	Health officer. Do.
Concord Durham Gastonia	*J. H. Epperson	Superintendent of health.
Goldsboro	*L. W. Corbett, M. D. *C. C. Hudson, M. D. 8. S. Coe, M. D. *Bohard S. McCoracher, M. D.	Do.
Greensboro	*C. C. Hudson, M. D.	Health officer.
High Point Kinston	*Robert S. McGeachy, M. D.	City physician. County health officer.
New Bern	*D. E. Ford. M. D.	i Do.
Raleigh	1 *A. C. Bulla	1 D0.
Rocky Mount Salisbury	*C. W. Armstrong, M. D.	Do.
Wilmington		
Wilson Winston-Salem	*L. J. Smith, M. D. *R. L. Carlton, M. D.	City health officer. Do.
North Dakota:		100.
Fargo	*B. K. Kilbourne, M. D	Do.
Grand Forks Minot	Frank E. Wheelon, M. D	Do.
Ohio:		
Akron Alliance	*Donald D. Shira, M. D Floyd R. Stamp, M. D George W. Mehl, M. D	Director of health.
Ashland	George W. Mehl, M. D.	Health commissioner. Director of welfare and commissione
Ashtabula	Azro J. Pardee, M. D.	Health officer.
Barberton Bellaire	W. J. Shepard, M. D	Health commissioner.
Bucyrus	Azro J. Pardee, M. D. W. A. Mansfield, M. D. W. J. Shepard, M. D. Clyde L. Vorhies, M. D. F. M. Sayre, M. D. G. E. Robbins, M. D. *William H. Peters, M. D. *Harry L. Rockwood, M. D. *Harry L. Rockwood, M. D. *Harry L. Rockwood, M. D.	Do.
Cambridge	Clyde L. Vorhies, M. D.	Do.
Canton Chilicothe	G. E. Robbins, M. D	Health officer. Commissioner of health.
Cincinnati	*William H. Peters, M. D.	Do.
Cleveland	*Harry L. Rockwood, M. D.	Do.
Cleveland Heights Columbus	*James A. Beer, M. D	Director of health. Health commissioner.
Conneaut.	*James A. Beer, M. D. Iner Hyatt, M. D. *David M. Criswell, M. D. *R. H. Markwith, M. D.	Do.
Coshocton Cuyahogua Falls	*David M. Criswell, M. D.	Do.
Dayton	*A. O. Peters, M. D.	Do. Health officer.
East Cleveland	George W. Stober, M. D. *John A. Fraser, M: D.	Director of health.
East Liverpool East Youngstown	John A. Fraser, M: D.	Health commissioner
Elyria	James S. Mariner, M. D. G. E. French, M. D. *Edward W. Misamore, M. D.	Do. Do.
Findlay	*Edward W. Misamore, M. D	Do.
Fostoria Fremont	W. N. Caldwell	Do, Health officer
Hamilton	M. F. Vereker, M. D.	Health officer. Health commissioner
Ironton Lakewood	*Edward W. Misamore, M. D. *W. N. Caldwell. E. L. Vermilya, M. D. M. F. Vereker, M. D. O. U. O'Neill, M. D. Wallace J. Benner, M. D. Clifford B. Snider, M. D. James B. Poling, M. D. Valloyd Adair, M. D. *William De Kleine, M. D. J. W. Donaldson, M. D. W. J. Weiser, M. D. * Charles Keller. * John H. Williams.	Do.
Lakewood Lancaster	Wallace J. Benner, M. D.	Do. Do.
Lima.	James B. Poling, M. D.	Do.
Lorain Mansfield	Valloyd Adair, M. D.	Do.
Mansfield Marietta	William De Kleine, M. D.	Do.
Marion	W. J. Weiser, M. D.	Do. Do.
Martins Ferry	*Charles Keller	Do.
Massillon Middletown	*Charles Keller. *John H. Williams G. D. Lummis, M. D. W. H. Knauss, M. D. *Joseph Blickensderfer, M. D. *H. J. Wittenberg, M. D. J. G. Freshour, M. D. O. D. Tatje, M. D. *Thomas T. Church, M. D. *Fred M. Houghtaing, M. D. *Oscar M. Craven, M. D. *Theodore W. Smith.	Do. Do.
Newark	W. H. Knauss, M. D	Do.
New Philadelphia	*Joseph Blickensderfer, M. D	Do.
Niles Norwood	*H I Wittenberg M D	. Do. Do.
Piqua	J. G. Freshour, M. D.	D0.
Piqua. Portsmouth	O. D. Tatje, M. D.	Do.
Salem Sandusky	*Thomas T. Church, M. D.	Do. Do.
Springfield	*Oscar M. Craven, M. D.	Director of public health.
Steubenville	*Theodore W. Smith	
Tiffin Toledo	J. A. Gosling, M. D. Daniel W. Iford, M. D.	Do. Do.
Warren		
Youngstown	H. E. Welch, M. D.	Do.
Zanesville	Beatrice Todd Hagen, M. D	Superintendent of health and sanita- tion.
Ardmore	Ambert Y. Easterwood, M. D.	City health officer.
Bartlesville	Elizabeth Chamberlain, M. D.	Superintendent of health.
Chickasha Enid	E. L. Dawson, M. D.	Do.
Guthrie	Wm C Miller M D	City health officer.
Guttille		
McAlester Muskogee	Wm. C. Miller, M. D. W. C. Graves, M. D. F. W. Ewing, M. D.	Do. Do.

*Commissioner of health for Kenmore and Summit County.

July 3, 1925

City	Name of health officer	Official title
Oklahoma-Continued.		
Okmulgee		- <u>-</u>
Oklahoma City	*W. H. Miles, M. D.	Director of health.
Sapulpa	P. K. Lewis, M. D.	_ Superintendent of health.
Shawnee	Derid A Baard M D	City health officer.
Tulsa Dregon:	David A. Beard, M. D.	Supt. city health department.
Astoria	N. S. Vernon, M. D.	_ County health officer.
Eugene	S. M. Kinon, M. D.	City health officer.
Portland	*John G. Abele, M. D.	Do.
Salem	William B. Mott, M. D.	_ Do.
ennsylvania:		
Allentown		Do.
Altoona Ambridge	•T. G. Herbert	_ Chief, bureau of health.
	*Nelson W. Osmond	Health officer.
Beaver Falls Berwick	*Nelson W. Osmond *C. W. Shannon	Do.
Bethlehem		
Braddock	I The R Mille	
Bradford	*Carl L. Peterson John M. Wright	Do.
Bristol	John M. Wright	Do.
Butler	•J. Fred Leetch	. Do.
Cannonsburg	•J. Fred Leetch •J. Mart Templeton •W. J. Morgan •A. P. Lissman	Do.
Carbondale	*W. J. Morgan	Sanitary officer.
Carlisle	A. P. Laszman	Health officer.
Carnegie	Jas. Lewis William Windeknecht Frank J. Croft	Do. Do.
Carrick Chambersburg	Fronk I Croft	Do.
Charleroi	W M Dorby	Health menetop
Chester	*John W. Shaw	Health officer.
Clairton	*Wm. P. Davidson	Do.
Coatesville	*Charles V. Peace, V. M. D., Ph. G.	Do.
Columbia	 John W. Shaw. Wm. P. Davidson Charles V. Peace, V. M. D., Ph. G. G. M. Rodenhauser. 	Do.
Connellsville		U.
Dickson City	*FTANK J. Meenan	Do.
Donora	Luther W. Quinn, M. D	Do.
DuBois Dunmore	Luther W. Quinn, M. D	100.
Duquesne		
Easton	I Temes Condren M D	Do.
Elwood City		Do.
Erie	J. W. Wright, M. D.	Do.
Farrell	*Wm, C. Heinze	Do.
Franklin		-
Greensburg	*T. Ray Hunter John M. J. Raunick, M. D	Do.
Harrisburg	*P. J. Bonner	Do. Do.
Hazelton	*James L. King *A. T. Coon *J. F. Seward	Do.
Tegnette	*A T Coon	Do.
Jeanette Kingston	*J. F. Seward *Benjamin F. Charles	Do.
Lancaster	*Benjamin F. Charles.	Do.
Lansford	Alex Linson	Do.
Lebanon	Frank B. Witmer, M. D *H. E. Fetterolf *Daniel F. Marsh	Do.
Lewistown	*H. E. Fetterolf	Do.
McKeesport	*Daniel F. Marsh	Do.
McKees Rocks	*John Sullivan	De
Mahanoy Meadville	John Sumvan	Do.
Monessen	*Francis E Gibson	Inspector public safety
Nanticoke	*Edward J. Humphreys	Inspector public safety. Health officer.
New Castle	*Francis E. Gibson *Edward J. Humphreys William L. Steen, M. D	Do.
New Castle New Kensington		
Norristown North Braddock	Chas. E. White Robert M. Sylves. W. J. Lewis.	Do.
North Braddock	*Robert M. Sylves	Do.
Oil City	*W. J. Lewis	Do.
		Do
Olyphant	*James F. O'Malley *A. A. Cairns, M. D.	Do. Chief of bureau of health.
Philadelphia Phoenixville	Allen L. Bevan	Do.
Pittsburgh	*Carey J. Vaux, M. D.	Director.
Pittston	*Matthew A. Hurst	Health officer.
Plymouth	*Matthew A. Hurst. H. G. Templeton, M. D	Do.
Pottstown		
Pottsville	*O. L. Kleckner	Do.
Punxsautawney	J. Frank Boney	Do.
Reading	J. Frank Boney *Ira J. Hain, M. D F. R. Wheelock, M. D	Do
hiero má em	F. R. Wheelock, M. D.	Director.
Scranton	*L. C. Brainard	Sanitary officer.
Sharon		
Sharon Shenandoah		Health officer
Sharon Shenandoah	*E. G. Butler	Health officer.
Sharon Shenandoah Steelton Suppury	*E. G. Butler *Victor A. Koble	Do.
Sharon Shenandoah Steelton Suppury	*E. G. Butler	

Ciiy	Name of health officer	Official title
Pennsylvania—Contd.		
Uniontown	 W. C. Hall J. Elmer Spang. R. N. Brown. J. G. Dinsmore. Percy H. Snowberger. Jos. Scattlegood, M. D. G. A. Clark, M. D. J. M. Snyder 	Health officer.
Vandergrift Warren	*R N Brown	Do. Do.
Washington	*J. G. Dinsmore.	Do.
Waynesboro	*Percy H. Snowberger	Do.
West Chester	Jos. Scuttlegood, M. D.	Secretary board of health.
Wilkes-Barre Wilkinsburg	*I M Snyder	City physician. Health officer.
Williamsport	s. M. Ohat, M. D. Bobert F. Trainer, M. D. S. W. McMullen	Do.
Windber	S. W. McMullen.	Do.
Woodlawn	*James E. Tanner J. Frank Small, M. D	l Da
York Rhode Island:	J. Frank Small, M. D	Director of public health.
Bristol	John H. Magee, P. H. D	Health officer.
Central Falls	John H. Magee, P. H. D A. R. V. Fenwick, M. D Daniel S. Latham, M. D	Superintendent of health.
Cranston	Daniel S. Latham, M. D.	Do.
Cumberland East Providence	Stephen A. Kenney, M. D. W. H. T. Hamill, M. D. *J. W. Sampson.	Health officer.
Newport	*J. W. Sampson	Do. Executive officer board of health.
Pawtucket	Florian A. Ruesf. M. D	Superintendent of health.
Providence	Florian A. Ruesf, M. D *Charles V. Chapin, M. D	Do.
Warwick		
West Warwick	H. Barton Bryer, M. D. Samuel C. Webster, M. D., Ph. G	Health officer
Westerly Woonsocket	Wm. A. Bernard, M. D.	Superintendent of health. Health officer.
outh Carolina:		ficante officer.
Anderson	*E. R. Van de Grift, D. V. M	Do.
Charleston	*J. Merceir Green, M. D.	Do.
Columbia	M. M. Rice, M. D. *P. H. Brigham, M. D., D. D. S *Irving Sydnor Barksdale, M. D	Do.
Florence	*Irving Sydnor Berksdele M D	Health commissioner. Do.
Spartanburg		D0.
Sumter	*John R. Sumter	Health officer.
outh Dakota:		_
Aberdeen	*George M. Boteler, M. D. *Albert E. Campbell, M. D	Do. Do.
Watertown	Albert E. Campoen, M. D.	D0.
ennessee:		
Chattanooga	*C. B. Crittenden, M. D	Director of health.
Jacksonville		C ¹
Johnson City	J. P. Kandall, M. D.	City physician. City health officer.
Knoxville Memphis	*I I Durrett M D Ph G	Superintendent of health.
Nashville	J. P. Randall, M. D. *Marvin F. Haygood, M. D., C. P. H. *J. J. Durrett, M. D., Ph. G. *W. E. Hibbett, M. D.	City health officer.
eras:		
Abilene	Scott W. Hollis, M. D.	Do.
Amarillo	A. H. Lindsay, M. D Z. T. Martin, M. D	City physician. Health officer.
Austin Beaumont	Dru McMickin, M. D.	Do.
Brownsville	214 H201 H202 H2 2	20.
Cleburne Corpus Christi	Jas. D. Osborn, M. D.	Do.
Corpus Christi	A. H. Speer, M. D	Do.
Corsicana	*Noah W. Andrews, M. D	Director of public health.
Dallas Del Rio	B. F. Orr. M. D	City health officer.
Denison	Alex. W. Acheson, M. D.	Do.
Eastland	B. F. Orr, M. D. Alex. W. Acheson, M. D. E. R. Townsend, M. D. •John William Brown, M. D., C. P. H.	Do.
El Paso	John William Brown, M. D., C. P. H.	Do.
Fort Worth		Do.
Greenville	Walter Kleberg, M. D William M. Dickens, M. D *Arthur H. Flickwir, M. D	D0. D0.
Houston	*Arthur H. Flickwir, M. D.	Do.
Laredo		
Palestine		
Paris	Lewis Melvin Gooch, M. D	Do.
Port Arthur	T P Read M D	Do.
Ranger		_
San Angelo	A. C. De Long, M. D.	Do.
San Antonio	A. C. De Long, M. D Wm. A. King, M. D J. A. Swafford, M. D	Do. Do.
Sherman Temple		10.
Texarkana	Wm. Hibbitts, M. D.	Do.
Tyler	Wm. Hibbitts, M. D. Albert Woldert, M. D. R. F. Minnock, M. D. James M. Whitworth, M. D.	Do.
Waco	R. F. Minnock, M. D	Do.
	James M. Whitworth, M. D.	Do.
Wichita Falls		
Wichita Falls		
Wichita Falls tah: Logan		Health commissioner.
Wichita Falls	[•] H. Earl Belnap, M. D. Arnold E. Robinson, M. D. Willard Christopherson, M. D.	Health commissioner. City physician.

City	Name of health officer	Official title
Vermont:		
Barre	Marshall Dana Lamb M. D.	Thealth officer
	Marshall Dana Lamb, M. D.	Health officer.
Bennington		. Do.
Burlington	J. W. Courtney, M. D.	. Do.
Rutland		-
Virginia:	And the second	
Alexandria	Louis E. Foulks, M. D.	. Do.
Charlottesville	•G. B. Young, M. D.	Do.
Danville	 *Louis E. Foulks, M. D. *G. B. Young, M. D. *R. W. Garnett, M. D. 	Do.
Lynchburg Newport News	*Mosby G. Perrow. Samuel Downing, M. D.	Director public welfare.
Newport News	Samuel Downing, M. D.	Acting health officer:
Norfolk	*Powhatan S. Schenck, M. D	Health commissioner.
Petersburg	Robert A. Martin, M. D.	Do.
Portsmouth	I TLODSOBIE I KODET M II	Director of public welfare.
Richmond	TW BROWTIEV NOSLET M. D	Do.
Roanoke	*Coleman B. Ransone, M. D.	Health officer.
Staunton		
Washington:		1
Aberdeen	D. O. Suriashart M. D.	Do.
Bellingham	W. W. Baliaire, M. D. T. H. Holmcs, M. D. J. Spencer Purdy, M. D. H. C. Watkins, M. D. "Geo. N. McLoughlin, M. D. "Ralph Hendricks, M. D. Charles F. Engels, M. D. R. D. Wiswall, M. D "Issenb P. Kana M. D.	Do. Do.
Bremerton	T. H. Holmes, M. D.	D0.
Everett	J. Spencer Purdy, M. D.	Do.
Hoquaim	H. C. Watkins, M. D.	Do.
Seattle	Geo. N. McLoughlin, M. D.	Commissioner of health.
Spokane	*Ralph Hendricks, M. D	Health officer.
Tacoma Vancouver	Charles F. Engels, M. D.	Do.
Vancouver	R. D. Wiswall, M. D.	City physician. City health officer.
Walla Walla	*Joseph P. Kane, M. D.	City health officer.
Yakima		
West Virginia:		
Bluefield		
Charleston		Health commissioner.
	*Pobert Linn Osborn M D	
Clarksburg	Kobert Linn Osborn, M. D.	City physician.
Fairmont		Health officer.
Huntington	Anther Dress Reals Mr. D	TTaalkh annuniationa
Martinsburg	Arthur Bruce Eagle, M. D	Health commissioner.
Morgantown		Health officer.
Moundsville	V. D. Guttard, M. D.	Field agent, U. S. P. H. S.
Parkersburg	•	
Wheeling	*William Hay McLain, M. D	Health commissioner.
Visconsin:		-
Appleton	Wm. C. Felton, M. D.	Do,
Ashland	C. O. Hertzman, M. D	Do.
Beloit	C. O. Hertzman, M. D. *Lewis M. Field, M. D.	Health officer.
Eau Claire	J. F. Farr, M. D.	Executive officer, department of publi
		health.
Fond du Lac	A C Dana M D	Do.
Green Bay	*George F Goggins M D	Commissioner of health.
Janesville	Fred D Welch M D	Health officer.
Vanasha	*Cuptoro Winderhaim M D	Director of health.
Kenosha	A thun M Mumber	Health officer.
La Crosse	A M Com M D D D	Leanth oncer.
Madison	*A. M. Carr, M. D., D. P. H.	Do.
Manitowoc	Max Staehle, M. D.	Commissioner of health.
Marinette	S. Berglund, M. D.	Health officer.
Milwaukee	*John P. Koehler, M. D.	Commissioner of health.
Oshkosh	*A. H. Broche, M. D	Health officer.
Racine	*W. W. Bauer, M. D.	Do.
Sheboygan	A. C. Dana, M. D. George F. Goggins, M. D. Fred B. Welch, M. D. *Qustave Windesheim, M. D. *Arthur M. Murphy. *A. M. Carr, M. D., D. P. H. Max Staehle, M. D. S. Berglund, M. D. *John P. Koehler, M. D. *John P. Koehler, M. D. *M. H. Broche, M. D. *Joseph C. Elfers, M. D. F. A. Southwick, M. D. P. G. McGill, M. D. P. G. McGill, M. D. *U. F. Bugbee.	Commissioner of public health.
Stevens Point	F. A. Southwick, M. D.	Health commissioner.
Superior	P. G. McGill, M. D.	Do.
Superior Waukesha	Geo. E. Peterson, M. D	Do.
Wangan	*I. F Buchee	Health officer.
Wausau West Allis	*L. F. Bugbee. *S. C. McCorkle, M. D	Health commissioner.
	D. C. MICOULIC, MI. D	ricaten commissioner.
yoming:	AT Court M D	Director county health demonts
Casper Cheyenne	*H. Garst, M. D. J. H. Conway, M. D.	Director, county health department. County health officer.

DEATHS DURING WEEK ENDED JUNE 20. 1925

Summary of information received by telegraph from industrial insurance companies for week ended June 20, 1925, and corresponding week of 1924. (From the Weekly Health Index, June 23, 1925, issued by the Bureau of the Census, Department of Commerce)

	Week ended June 20, 1925	Corresponding week, 1924
Policies in force	60. 266. 214	56, 391, 496
Number of death claims		9, 646
Death claims per 1,000 policies in force, annual rate	10. 4	8.9

Deaths from all causes in certain large cities of the United States during the week ended June 20, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, June 23, 1925, issued by the Bureau of the Census, Department of Commerce)

-	Week ended June 20, 1925		Annual death rate per	Deaths under 1 year		Infant mortality	
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1924	Week ended June 20, 1925	Corre- sponding week, 1924	rate week ended June 20, 1925 ?	
Total (66 cities)	6, 077	11.4	\$ 11.8	716	³ 758	4 55	
Akron Albany ^s	27 18	7.8	15.4	52	72	56 44	
Atlanta	58	1.0	. 10. 1	. 7	ล้		
Baltimore 4	192	12.6	12.4	16	22	48	
Birmingham	53	13.4	18.7	12	7		
Boston	179	11.9	13.8	22	24	58	
Bridgeport	24			1	6	16	
Buffalo	144	13.6	12.1	19	17	77	
Cambridge	18	8.3	14.0	2	1	34	
Camden	30	12.2	14.0	5	5	80	
Chicago ³ Cincinnati	563	9.8	10.9	63	86	56	
Cincinnati	105	13.4	14.4	8	11	47	
Cleveland	153	8.5	9.8	19	15	47	
Columbus	59	11.0	12.4	4	9	37	
Dallas	68	18.3	13.6	9	9		
Dayton	37	11.2	8.6	1	4	16	
Denver	75 24	13.9 8.4	10.8 11.1	7	9 5		
Des Moines		0.4	11.1	37		17	
Detroit	265 14	6.6	10.6	3/ 1	39 5	64 22	
Duluth Erie	20	0.0	10.0	2	3	39	
Fall River ⁵	20	9.0	11.6	2	3	29	
Flint	13	3.2	6.7	4	3	63	
Fort Worth	29	9.9	11.6	11	3		
Grand Rapids	36	12.3	8.8	2	2	31	
Houston	59	18.7	15.3	10	8		
Indianapolis	90	13. i	10.8	8	8	57	
Jersey City	57	9.4	12.7	7	8	50	
Kansas City, Kans	23	9.7	10.3	3	3	63	
Kansas City, Mo.	79	11. 2	11.2	15	8		
Los Angeles	210			23	27	63	
Louisville	76	15.3	12.7	7	5	61	
Lowell	19	8.5	10.8	1	4	17	
Lynn	26	12.9	7.5	2	4	53	
Memphis	82	24.5	19.1	12	7		
Milwaukee	110	11.4	10.1	9	16	42	
Minneapolis	96	11.8	6.7	11	6	59	
Nashville 5	35	13.4 9.3	16.9	4	3	66	
New Bedford	24 33	9.3	7.1 9.8	43	32	39	
New Haven	156	19.6	17.7	33	29	39	
New Orleans	1. 237	19.6	11.1	149	146	60	
	1, 237	8.0	9.3	20	140	69	
Bronx borough	416	9.7	9.9	51	48	52	
		v. /				J40	
Brooklyn borough	531		12 2	59	65 1	60	
Manhattan borough	531 100	12.3 9.1	13.3 9.5	58 14	65 18	60 63	

¹Annual rate per 1,000 population. ² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births. ³ Data for 64 cities. ⁴ Data for 62 cities. ⁴ Data for 62 cities.

⁵ Deaths for week ended Friday, June 19, 1925.

Deaths from all causes in certain large cities of the United States during the week
ended June 20, 1925, infant mortality, annual death rate, and comparison with
corresponding week of 1924. (From the Weekly Health Index, June 23, 1925,
issued by the Bureau of the Census, Department of Commerce)—Continued

	Week ended June 20, 1925		Annual death rate per	Deaths under 1 year		Infant mortality
City	Total deaths	Death rate	1,000 corre- sponding week, 1924	Week ended June 20, 1925	Corre- sponding week, 1924	rate week ended June 20, 1925
Newark, N. J Norfolk	92 30	10.6	10. 3	12 4	12	53 74
Oakland	43	8.8	8.2	4	4	46
Oklahoma City	14			2	2	
Omaha	39	9.6	12.8	6	9	62
Paterson Philadelphia	26 435	9.6 11.5	13.0 12.3	7 52	2 53	118 66
Pittsburgh	148	11.3	12.3	52 11	30	37
Portland, Oreg	84	15.6	11.1	11	4	110
Providence	64	13.6	13.7	- 8	9	24
Richmond	49	13.7	15.3	4	16	48
Rochester	51	8.0	12.2	3	5	24
St. Louis	197	12.5	12,1	25	18	
St. Paul Salt Lake City ⁵	48 26	10.2 10.4	12.4 12.6	4 5	47	34 78
San Antonio	20	20.3	12.0	22	16	10
San Diego	28	14.5		3	10	70
San Francisco	121	11.3	11.4	ő	9	35
Schenectady	16	8.2	10.4	1	1	28
Seattle	52			6	5	58
Somerville	16	8.2	7.3	1	0	27
Spokane Springfield, Mass	26 27	12.4 9.2	13.0 13.0	2	3	45
Syracuse	41	9. 2 11. 2	10.5	6	64	30 75
Tacoma.	24	12.0	10. 5	3	2	70
Toledo	54	9.8	13.0	2	õ	18
Trenton	42	16.6	14.5	3	ŏ	49
Titica	28	13.6		1		21
Washington, D. C	141	14.8	12.0	15	14	84
Waterbury	19 20	8.5	13.0	2	4	43
Worcester	20 39	8.5	13.0	17	3	23 81
Yonkers	20	9.3	12.8	2	4	44
Youngstown	22	7.2	11.1	4	ā	49

⁶ Deaths for week ended Friday June 19, 1925.

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 Week Ended June 27, 1925

ALABAMA

C	ases
Cerebrospinal meningitis	3
Chicken pox	24
Diphtheria	11
Dysentery	39
Influenza	6
Malaria	68
Mumps	21
Paratyphoid fever	3
Pellagra	51
Pneumonia	27
Poliomyelitis	1
Scarlet fever	25
Smallpox	33
Tetanus	1
Tuberculosis	32
Typhoid fever	83
Whooping cough	66
ARIZONA	
Measles	1
Poliomyelitis	1
Scarlet fever	3
Typhoid fever	3
Whooping cough	2
ARKANSAS	
Chicken pox	6
Diphtheria	4
Hookworm disease	1
Influenza	5
Malaria	86
Measles	2
Mumps	16
Pellagra	28
Poliomvelitis	1
Scarlet fever	2
Smallpox	2
Tuberculosis	6
Typhoid fever	39
Whooping cough	16

CALIFORNIA

С	ases
Botulism-Mendocino County	1
Cerebrospinal meningitis—San Francisco	1
Diphtheria	59
Glanders-Merced County.	1
Influenza	11
Lethargic encephalitis:	
Kern County	1
San Francisco	ī
Measles	49
Poliomvelitis:	
Alameda	1
Beaumont	1
	7
Los Angeles	
Los Angeles County	3
Modesto	I
Oakland	1
Orange	1
San Bernardino	1
San Diego	1
San Francisco	8
Scarlet fever	58
Smallpox:	
Los Angeles	36
Los Angeles County	19
Oakland	9
San Diego	6
Scattering	29
Typhoid fever	11
1 y photo to	**
COLOBADO	

(Exclusive of Denver)

Chicken pox 7 Diphtheria 17 Mcasles 1 Mumps 13 Pneumonia 1 Poliomyelitis 1 Scarlet fever 14 Smallpox 1

Cases

COLORADO-continued

Tuberculosis	14
Typhoid fever	
Whooping cough	

CONNECTICUT

Chicken pox	17
Diphtheria	18
German measles	3
Influenza	1
Lethargic encephalitis	1
Malaria	1
Measles	193
Mumps	5
Pneumonia (all forms)	26
Scarlet fever	25
Tuberculosis (all forms)	45
Typhoid fever	3
Whooping cough	95

DELAWARE

Measles	6
Smallpox	
Tuberculosis	5
Typhoid fever	1

FLORIDA

Diphtheria	15
Influenza	1
Malaria	23
Measles	2
Mumps	18
Poliomyelitis	1
Scarlet fever	1
Smallpox	1
Tuberculosis	27
Typhoid fever	22
Whooping cough	5

GEORGIA

Chicken pox	17
Conjunctivitis	2
Diphtheria	8
Dysentery	61
German measles.	2
Hookworm disease	5
Influenza.	21
Lethargic encephalitis	1
Malaria	128
Measles.	7
Mumps	22
Paratyphoid fever	7
Pellagra	26
Pneumonia	26
Scarlet fever	5
Septic sore throat	1
Smallpox	8
Tuberculosis	33
Typhoid fever	
Whooping cough	69

ILLINOIS

Diphtheria:

Cook County	48
Scattering	21
Influenza	13
Lethargic encephalitis-Boone County	1
Measles	549
Pneumonia	
Scarlet fever:	
Cook County	77
Scattering	

INDIANA

Chicken pox	51
Diphtheria	
Influenza	3
Measles	135
Mumps	1
Pneumonia	3
Scarlet fever	59
Smallpox	50
Tuberculosis	48
Typhoid fever	18
Whooping cough	79

IOWA

Diphtheria	8
Scarlet fever	8
Smallpox	13

KANSAS

Chicken pox	23
Diphtheria	18
Influenza	5
Lethargic encephalitis	1
Measles	4
Mumps	42
Pneumonia	18
Scarlet fever	28
Septic sore throat	6
Smallpox	11
Tuberculosis	59
Typhoid fever	19
Whooping cough	

LOUISIANA

Cerebrospinal meningitis	1
Diphtheria	6
Leprosy	
Malaria	14
Paratyphoid fever	2
Pneumonia	20
Scarlet fever	8
Smallpox	8
Tuberculosis	40
Typhoid fever	89
Whooping cough	11

MAINE

Chicken pox	- 14
Diphtheria	-
German measles	
Influenza	
Measles	
Mumps	
Pneumonia	
Scarlet fever	6
Tuberculosis.	9
Typhoid fever	3
Whooping cough	4

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MARYLAND 1

RADIMAND -	
Ca	ases
Chicken pox	25
Diphtheria	23
Dysentery	5
German measles	3
Influenza	4
Lethargic encephalitis	1
Malaria	1.
Measles	48
Mumps	56
Pneumonia:	*
Broncho	20
Lobar	6.
Poliomyelitis	ľ
Scarlet fever	.17
Tuberculosis	68
Typhoid fever	14
Whooping cough	82

MASSACHUSETTS

1
2
75
10
79
71
4
2
533
37
16
33
1
96
2
1
115
85
7
116

MICHIGAN

Diphtheria	82
Measles	
Pneumonia	68
Scarlet fever	185
Smallpox	22
Tuberculosis	
Typhoid fever	
Whooping cough	

MINNESOTA

Chicken pox	85
Diphtheria	50
Influenza	3
Lethargic encephalitis	2
Measles	25
Pneumonia	2
Poliomyelitis	7
Scarlet fever	91
Smallpox	6
Tuberculosis	45
Typhoid fever	2
Whooping cough	24
	•

MISSISSIPPI

ALGENSSIVTI .	
	Cases
Cerebrospinal meningitis	1
Diphtheria	. 2
Scarlet fever	4
Smallpox	7
Typhoid fever	- 48

MISSOURI

(Exclusive of Kansas City)

Anthrax	
Cerebrospinal meningitis	
Chicken nov	13
Diphtheria.	2
	1
Mumps	1
Pneumonia	
Poliomyelitis	-
Scarlet fever	5
Smallpox	1
Tetanus	
Trachoma	1
Tuberculosis	4
Typhoid fever	-
Whooping cough	
	-

MONTANA

Chicken pox	5
German measles	
Measles	
Mumps	
Poliomyelitis	1
Scarlet fever	
Smallpox	
Tuberculosis	
Typhoid fever	
Whooping cough	

NEW JERSEY

Chicken pox	58
Diphtheria	58
Dysentery	
Influenza	
Measles	198
Pneumonia	
Poliomyelitis	7
Scarlet fever	
Smallpox	1
Trachoma	
Typhoid fever	6
Whooping cough	136

NEW MEXICO

Diphtheria Mumps
Pneumonia
Scarlet fever
Smallpox
Tuberculosis
Tularaemia1
Typhoid fever
Whooping cough 10

¹ Week ended Friday.

NEW YORK

(Exclusive of New York City)

C	ases
Cerebrospinal meningitis	3
Diphtheria	85
Influenza	1
Lethargic encephalitis	6
Measles.	
Pneumonia	71
Poliomyelitis	4
Scarlet fever	95
Smallpox	3
Typhoid fever	11
Whooping cough	131
•	

NORTH CABOLINA

Chicken pox	34
Diphtheria	18
German measles	1
Measles	7
Poliomyelitis	4
Scarlet fever	8
Smallpox	34
Typhoid fever	43
Whooping cough	61

OKLAHOMA

(Exclusive of Oklahoma City and Tulsa)

Cerebrospinal meningitis-Osage County	1
Chicken pox	7
Diphtheria	5
Influenza	11
Malaria	52
Measles	3
Mumps	8
Pneumonia	11
Poliomyelitis-Cotton County	1
Scarlet fever	14
Smallpox	8
Typhoid fever:	-
Stephens County	8
Washington County	20
Scattering	61
Whooping cough	78

OREGON

Cerebrospinal meningitis	11
Chicken pox	7
Diphtheria:	-
Portland	11
Scattering	8
Measles	6
Mumps	16
Pneumonia	13
Scarlet fever	16
Septic sore throat	11
Smallpox	15
Tuberculosis	11
Typhoid fever	5
Whooping cough	18

SOUTH DAKOTA

Chicken pox
Diphtheria
Scarlet fever
Smallpox
Whooping cough

TREAS

	1365
Chicken pox	28
Diphtheria	15
Dysentery (epidemic)	21
Measles	5
Mumps	17
Paratyphoid fever	4
Pellagra	7
Pneumonia	9
Poliomyelitis	2
Rabies in man	1
Scarlet fever	22
Smallpox	21
Tuberculosis	25
Typhoid fever	27
Typhus fever	4
Whooping cough	71

VERMONT

Chicken pox	16
Diphtheria	2
Measles	
Mumps	
Scarlet fever	
Whooping cough	

VIRGINIA

Smallpox-Louisa	County	2
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WASHINGTON

Chicken pox	61
Diphtheria	12
German measles	2
Lethargic encephalitis	1
Measles.	2
Mumps	36
Poliomyelitis—Pacific County	1
Scarlet fever	7
Smallpox	33
Tuberculosis	61
Typhoid fever	7
Whooping cough	81

WEST VIRGINIA

Diphtheria	1
Scarlet fever	
Smallpox	
Typhoid fever	

WISCONSIN

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MINWAUKee:	
Chicken pox	10
Diphtheria	13
German measles	- 7
Measles	69
Mumps	Ē
Pneumonia	7
Scarlet fever.	4
Smallpox	3
Tuberculosis	24
Typhoid fever	1
Whooping cough	43
Scattering:	
Cerebrospinal meningitis	1
Chicken pox	66
Diphtheria	24
German measles.	91

¹ Deaths.

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wisconsin-continued

			Cases
Scattering—Continued.	Cases	Whooping cough	71
Influenza	13	Chicken poz.	
Measles		Impetigo contagiosa	
Mumps	68	Influenza.	
Pneumonia	6	Mumps	
Scarlet fever		Rocky Mountain spotted fever	
Smallpox		Scarlet fever	
Tuberculosis	17	Typhoid fever	
Typhoid fever	3		

Reports for Week Ended June 20, 1925

ALABAMA

	Cases
Chicken pox	14
Diphtheria	7
Dysentery	35
Influenza	5
Malaria	63
Measles	9
Mumps	13
Paratyphoid fever	
Pellagra	33
Pneumonia	16
Poliomyelitis	4
Scarlet fever	23
Smallpox	67
Tuberculosis	27
Typhoid fever	
Whooping cough	

CALIFORNIA

Cerebrospinal meningitis:	
Fresno.	1
San Francisco	1
Diphtheria	74
Influenza	12
Jaundice (epidemic)	1
Lethargic encephalitis:	•
	1
Colton	_
Sacramento	1
Measles	47
Poliomyelitis:	
Berkeley	2
Burbank	1
Inyo County	1
Los Angeles	2
Los Angeles County	2
Oakland	2
San Diego County	1
San Francisco	2
Stanislaus County	1
Scarlet fever	78
	10
Smallpox:	~
. Los Angeles	33
Oakland	15
Scattering	26
Typhoid fever	14

INDIANA

Cerebrospinal meningitis:	
Jennings County	1
Union County	1
Chicken pox	37
Diphtheria	19

INDIANA-continued

WYOMING

	2902
Influenza	20
Measles	
Mumps	
Pneumonia	
Scarlet fever	46
Smallpox	68
Tuberculosis	44
Typhoid fever	
Whooping cough	

MINNESOTA

Chicken por	111
Diphtheria	
Influenza.	1
Lethargic encephalitis	1
Measles	36
Pneumonia.	4
Scarlet fever	121
Smallpox	4
Tuberculosis	59
Typhoid fever	1
Whooping cough	32

MISSISSIPPI

Diphtheria	2
Smallpox	22
Typhoid fever	
••	

MISSOURI

(Exclusive of Kansas City)

Chicken pox
Influenza 2
Malaria3
Measles
Mumps
Ophthalmia neonatorum 2
Pneumonia 5
Scarlet fever
Smallpox 30
Tetanus1
Trachoma
Tuberculosis65
Typhoid fever
Whooping cough

NEBRASKA

Cerebrospinal meningitis	1
Chicken pox	7
Diphtheria	7
Measles	3

NEBRASEA-continued		1
	ases	
Mumps		
Bearlet fever		Scarlet feve
Smallpox		Smallpox
Tuberculosis	2	Tuberculos
Typhoid fever	2	Typhoid fe
Whooping cough	. 11	Whooping
NORTH DAKOTA		Milwaukee
Chicken pox	5	Chicker
Diphtheria	12	1
German measles		Diphthe
Measles	1	German
Mumps	4	Influenz
Pneumonia	4	Letharg
Scarlet fever	29	Measles
Smallpox	2	Mumps
Tuberculosis		Pneumo
Whooping cough	11	Scarlet f
OKLAHOMA		Smallpo Tubercu
		Typhoid
(Exclusive of Oklahoma City and Tulsa)		Whoopin
Cerebrospinal meningitis-McIntosh County	1	Scattering:
Chicken pox	17	Chicken
Diphtheria	7	Diphthe
Influenza	24	German
Measles	5	Influenz
Mumps	12	Measles
Pellagra	n	Mumps.
Pneumonia	10	Pneumo
Scarlet fever	18	Scarlet fe
Smallpox	8	Smallpor
Typhoid fever:	Ů	Tubercu
Stephens	8	Typhoid
Scattering	52	Whoopin
Whooping cough	104	w noopn
	104	
WASHINGTON		Chicken pox.
Cerebrospinal meningitis—Tacoma	1	German mea
Chicken pox	50	Mumps
Diphtheria	10	Scarlet fever.
German measles	7	Smallpox
Measles	4	Whooping co

WASHINGTON-continued

	ases
Mumps	
Scarlet fever	7
Smallpox	31
Tuberculosis	18
Typhoid fever	4
Whooping cough	78
WISCONSIN	
Milwankee:	
Chicken pox	38
Diphtheria.	- 30 11
German measles	21
Influenza	
Lethargic encephalitis	2
Measles	1
Mumps	142
Pneumonia	47
Scarlet fever	10
Smallnor	13
Smallpox Tuberculosis	12
	14
Typhoid fever	1
Whooping cough Scattering:	42
•	
Chicken por	104
Diphtheria	12
German measles	106
Influenza	21
	265
Mumps	50
Pneumonia	16
Scarlet fever	82
Smallpox	21
Tuberculosis	21
Typhoid fever	2
Whooping cough	63
WYOMING	

Chicken pox	9
German measles	1
Mumps	5
Scarlet fever	9
Smallpox	ĩ
Whooping cough	10

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	Cere- bro- spinal menin- gitis	Dipth- theria	Influ- enza	Ma- laria	Mea- sles	Pella- gra	Polio- my- elitis	Scarlet fever	Small- pox	Ty- phoid fever
April, 1925 California May, 1925	9	560	349	5	555	6	29	620	827	54
Illinois. Kansas. Louisiana. Maine. Massachusetts. North Carolina. Oregon South Carolina South Dakota	13 0 1 12 5 7	370 50 39 13 351 83 116 119 18	243 16 125 319 108 109 1,045 10	12 59 1, 134	6, 237 58 10 24 3, 756 116 13 33 12	2 0 62 5	4 1 3 1 1 2	1, 682 258 48 90 996 80 85 32 148	150 18 50 1 253 52 133 20	71 11 213 10 37 41 7 223 3

RECIPROCAL NOTIFICATIONS, MAY, 1925

Notifications regarding communicable diseases sent during the month of May, 1925, to other State health departments by departments of health of certain States

Refer	red by—	Diph- theria	Scarlet fever	Small- pox	Ty- phoid fever	Tuber- culosis
Illinois Minnesota			1	1 3	. 2	52
New Jersey New Mexico New York		1	1		1	1

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plagueeradicative measures from the cities named:

Oakland, Calif.

(Including other East Bay communities)

Week ended June 13, 1925:	
Number of rats trapped	1, 461
Number of rats found to be plague infected	0
Number of squirrels examined	715
Number of squirrels found to be plague infected	0
Totals:	
Number of rats trapped Jan. 1 to June 13, 1925	52, 811
Number of rats found to be plague infected	21
Number of squirrels examined May 1 to June 13, 1925	3, 289
Number of squirrels found to be plague infected	0
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	
New Orleans, La.	•
Week ended June 13, 1925:	
Number of vessels inspected	256

Number of vessels inspected	200
Number of inspections made	694
Number of vessels fumigated with cyanide gas	23
Number of rodents examined for plague	5, 819
Number of rodents found to be plague infected	0
Totals, Dec. 5, 1924, to June 13, 1925:	
Number of rodents examined for plague	124, 428
Number of rodents found to be plague infected	12
Date of discovery of last plague-infected rat, Jan. 17, 1925.	
Die 11 11 war and a comming in New Orleans Aug 20, 1020	

Date of last human case occurring in New Orleans, Aug. 20, 1920.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended June 13, 1925, 35 States reported 1,030 cases of diphtheria. For the week ended June 14, 1924, the same States reported 1,336 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of nearly 27,600,000, reported 657 cases of diphtheria for the week ended June 13, 1925. Last year, for the corresponding week, they reported 905 cases of diphtheria. The estimated expectancy for these cities was 847 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics

Measles.—Thirty-two States reported 5,591 cases of measles for the week ended June 13, 1925, and 6,935 cases of this disease for the week ended June 14, 1924. One hundred and one cities reported 3,202 cases of measles for the week this year, and 2,805 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 1,815 cases; last year, 2,219 cases; 101 cities—this year, 964 cases; last year, 1,055; estimated expectancy, 724 cases.

Smallpox.—For the week ended June 13, 1925, 35 States reported 658 cases of smallpox. Last year for the corresponding week they reported 863 cases. One hundred and one cities reported smallpox for the week as follows: 1925, 202 cases; 1924, 309 cases; estimated expectancy, 101 cases. These cities reported 14 deaths from smallpox for the week this year.

Typhoid fever.—Five hundred cases of typhoid fever were reported for the week ended June 13, 1925, by 34 States. For the corresponding week of 1924 the same States reported 342 cases. One hundred and one cities reported 155 cases of typhoid fever for the week this year, and 107 cases for the corresponding week last year. The estimated expectancy for these cities was 92 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 101 cities as follows: 1925, 591 deaths; 1924, 578 deaths.

City reports for week ended June 13, 1925

The "estimated expectancy" given for diphtheria, poliomyelitis, searlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration 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 week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations 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.

			Diph	theria	Influ	lenza			
Division, State, and city	Population July 1, 1923, estimated	Chick- en pax, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	73, 129	4	2	2	0	0	1	8	0
New Hampshire: Concord		-	0	0	0	0	4	0	
Manchester	22, 408 81, 383	ŏ	1	ŏ	Ŭ	ŏ	5	ŏ	2
Vermont: Barre	1 10, 008	2	0	0	0	0	0	3	0
Burlington Massachusetts:	23, 613	2	1	1	0	0	1	5	0
Boston Fall River	770, 400 120, 912	1	51 3	18 1	2 0	1 0	188 3	1	26 2
Springfield Worcester	144, 227 191, 927	2 11	2 4	3 1	0 1	0	4 62	2 0	1 2
Rhode Island: Pawtucket	68, 799	0	1	0	0	0	· 0	0	0
Providence Connecticut:	242, 378	Õ	9	Õ		i	4	Ŏ	6
Bridgeport Hartford	¹ 143, 555 1 138, 036	3	5 5	7 5	0	0	4 13	1 2	2
New Haven	172, 967	5	3 3	, ĭ	ŏ	ŏ	76	Ó	5
MIDDLE ATLANTIC							•		
New York:	E96 710				0		185		10
Buffalo New York	536, 718 5, 927, 625	15 406	12 244	6 194	7	1	298	3 37	13 151
Rochester	317, 867 184, 511	22	6 6	4		0	130 32	6 10	6 1
New Jersey: Camden	124, 157	2	4	6		o	39	1	3
Newark Trenton	438, 699 127, 390	59 3	13 4	9 3	0	01	77 0	5 0	5
Pennsylvania: Philadelphia		105	57	71		0	344	25	49
Pittsburgh Reading	- 1, 922, 788 613, 442 110, 917	26	19 2	12 3		20	272 59	52	27 1
Scranton	140, 636	ŏ	3	ĭ	ŏ	ŏ	5	õ	3
EAST NORTH CENTRAL									
Ohio: Cincinnati	406, 312		7						
Cincinnati Cleveland Columbus	888, 519	153	20 2	28 2	2	0	41 5	6 0	11
Toledo	261, 082 268, 338	33 ·	4	6		ŏ	114	ŏ	6 2
Indiana: Fort Wayne	93, 573	4	2	0	0	0	8	0	2
Indianapolis South Bend	342, 718 76, 709	55 3	5	1	0	0	48	2 0	
Terre Haute	68, 939	9	1	2	0	0	29	0	
Chicago	2, 886, 121 55, 968	114	92 1	53	4	2	616	24	44
Cicero Springfield Michigan:	61, 833	5	1	2	0	0	41	13	1
Detroit Flint	995, 668 117, 968	97 12	44 3	18 1	7	4	26 38	12 3	27 1
Grand Rapids Wisconsin:	145, 947	3	2	ī	ŏ	ŏ	118	ŏ	7
Madison	42, 519	5 42	1	0 11	0	0	0 145	4 52	0 8
Milwaukee Racine	484, 595 64, 393 1 39, 671	8	1	1	Ŏ	Ŏ	0	13	1
Superior	• 38, 0/1	"	1	۲,	۲,			J	1
Ainnesota:								1	
Duluth Minneapolis	106, 289 409, 125	7	1 12	0 8	0	0	3 21	02	2 5
St. Paul	241, 891	76 33	14	15		1	12	16	10

City reports for week ended June 13, 1925-Continued

¹ Population Jan. 1, 1920.

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Division, State, and city d'uity iou resso settimated en port ported Cases, re- mated Cases re- ported cases re- ported site, re- ported site, re- re- ported site, re- re- ported site, re- re- re- re- re- re- re- re- re- re-			Ohish	Diph	theria	Infl	uenza	Mas		Der
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		July 1, 1923,	en pox, cases re-	esti- mated expec-	re-	re-	re-	sles, cases re-	cases re-	Pneu- monia, deaths re- ported
Dee Moines 10 922 0 1 4 0 1 0	Jowa:									
Sioux City	Davenport	61, 262								
Waterloo 39, 667 6 0 0 \dots 4 0 \dots Missouri: 351, 819 19 6 5 1 1 3 10 \dots	Sioux City	79,662			l i	l ö				
Massouri: Kansas City	Waterloo	39, 667	6	ō						
North Dakota: Fargo	Missouri:		10		Ι.	Ι.				
North Dakota: Fargo	Kansas City	351,819	19 0							3
North Dakota: Pargo	St. Louis	803, 853			38	i				4
Grand Forks 14, 547 * 3 0 0	North Dakota:						1			
South Dakota: Aberdeen 15,829 0<	Fargo	24, 841	. 3			0	0		2	0
Abcrdeen 15,829 0 <		14, 547	• 3	. 0	0	•••••		U	0	
Siour Falls 29, 206 0		15, 829	0	0	0	0		0	0	
Nebraska: 58,761 5 1 0 0 1 1 Onnaha. 204,382 7 3 2 0 0 1 1 Kansa: Topeka. 52,555 3 1 1 1 0 0 16 SOUTH ATLANTIC 70,261 111 1 1 0 0 17 0 Delaware: Wilmington 117,728 4 1 3 0 0 17 0 Maryland: 32,361 2 0 0 0 0 1 1 District of Columbia: 11301 0	Sioux Falls	29, 206					0			0
Onnaha	Nebraska:		_	_						
Hanss: Topeka	Lincoln	58,761		1	0			1		. 0
Topeka	Kansas:	204, 352	'	3	- 4		U	2	U	1
Witchitz 79, 261 11 1 1 0 0 1 0 SOUTH ATLANTIC Wilmington 117, 728 4 1 3 0 0 17 0 Maryland: Baltimore 773, 580 114 14 12 2 2 38 53 Cumberland 32, 361 2 0 0 0 0 1 1 District of Columbia: 11, 301 1 0 0 0 0 0 0 Washington 1437, 571 4 7 6 0 0 28				1	1		0	0	16	1
SOUTH ATLANTIC III7, 728 III IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIIIIII IIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Wichita	79, 261	11	1	1	0	0	1	0	ī
Wilmington 117, 728 4 1 3 0 0 17 0 Maryland: Baltimore 773, 580 114 14 12 2 2 38 53 Cumberiand 32, 361 2 0 0 0 0 1 1 Fre terick 11, 301 1 0	SOUTH ATLANTIC									
Maryland: 773, 580 114 14 12 2 2 38 53 Cumberland	Delaware:									•
Baltimore		117, 728	4	1	3	0	0	17	0	2
Pre ferick 11, 301 1 0		772 500								
Pre ferick 11, 301 1 0	Cumberland	32 361					2			23
District of Columbia: Washington		11. 301							ō	. 1
Virginia: 30, 277 6 0 0 0 0 5 Lynchburg 159,089 8 0 1 0 0 2 2 Richmond 181,044 5 1 1 0 0 13 1 West Virginia: 55,502 1 1 1 0 0 13 1 Charleston 45,597 2 0 0 0 0 0 0 West Virginia: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	District of Columbia:			1		1	1			v
Lynch burg 30, 277 6 0 0 0 0 0 5 Norfolk 159, 0699 8 0 1 0 0 2 2 Rachmond 181, 044 5 1 1 0 0 16 0 West Virginia:	Washington	1 43 7, 571	4	7	6	0	. 0	28		8
Norfolk 159,089 8 0 1 0 0 2 2 Richmond 181,044 5 1 1 0 0 16 0 Roanake 55,502 1 1 1 0 0 13 1 West Virginia: - - 0 0 0 23 1 Charleston 45,597 2 0 0 0 0 - 0 0 Wheeling 156,208 1 1 0 - 0 0 0 - 0	Lynchhurg	30 277		.0	0	0		· 0		1
Roanske	Norfolk								2	1 2
West Virginia: Charleston 45,597 2 0 0 0 0 23 1 Huntington 57,918 0 <	Richmond	181, 044		1	1	0		16	õ	2
Charleston 45,597 2 0 0 0 0 23 1 Huntington 57,918 0	Roanoke	55, 502	1	1	1	0	0	13	1	ō
Wineeling 1 56, 208 1 1 0 5 0 Rabeigh 29, 171 5 0<	Charleston	45 597	2	0	0	0	0	22	· 1	1
Windeling 1 55, 208 1 1 0 5 0 Raleigh 29, 171 5 0<	Huntington	57, 918	õ						ō	1
Raleigh 29, 171 5 0 <	Wheeling	1 56, 208			ŏ.		0	5		1
Wilmington	North Carolina:	~	.							
Winston-Salem 56, 230 8 1 0 0 0 2 3 South Carolina: T1, 245 0 0 0 0 1 0 Charleston 71, 245 0 0 0 0 1 0 Greenville		29, 171							0	1
South Carolina: Charleston 71, 245 0 0 0 0 1 0 Charleston 39, 688 4 0	Winston-Salem	56, 230	8 I	- i i	ŏl	ŏ				.2
Columbia 30,688 4 0 <	outh Carolina:		1				1			
Greenville	Charleston	71, 245								1
Georgia: Atlanta	Greenville	39, 688	4	N N		81				0
Atlanta	eorgia:		•	٩	۷I	٩	•	U	U I	0
Savannan 89,448 1 1 0 1 0 <	Atlanta	222, 963		1				0		12
Florida: 24,403 0 St. Petersburg		15, 937		0						0
St. Petersburg 24,403 0 </td <td>Savannan</td> <td>89, 448</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td>	Savannan	89, 448	1	1	0	1	0	0	0	1
Tampa 56,050 0 1 0 0 0 0 EAST SOUTH CENTRAL		24, 403		0						
Centucky: Covington		56, 050	0		0	0	0	0	0	1
Covington	EAST SOUTH CENTRAL									
									1	
	Covington	57,877		0.						
Louisvine	Louisville	257, 671	3	3	0	0	2	2	3	3
Memphis	Memphis	170, 067	2	1	0		0	12	6	4
Neshville	Nashville	121, 128	3					22		$\frac{1}{2}$
Jabama:	labama:				. 1				1	
Birmingham 195, 901 11 1 0 3 1 1 2 Mobile 63, 858 0 1 1 0 0 1	Mobile	195, 901	1	1		3		1	2	2 0
Mobile 63,858 0 1 1 1 0 0 1 Montgomery 45,383 1 0 0 0 0 1		45, 383		δ!		0		ŏ		Ů

City reports for week ended June 13, 1925-Continued

¹ Population Jan. 1, 1920.

City	reports	for	week	ended	June	15;	1925—	Continued

		Chick-	Diph	theria	Influ	lenza			
Division, State, and city	Population July 1, 1923, estimated	en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
WEST SOUTH CENTRAL		_							
Arkansas: Fort Smith Little Rock Louisiana:	30, 635 70, 916	0 1	1 0	2 0	0	0	0	1	3
New Orleans Shreveport	404, 575 54, 590	1 0	6	10 0	2 0	3 1	1	0	· 0
Oklahoma: Oklahoma	101, 150	0	1	0	0	2	0	0	4
Texas: Dallas Galveston Houston San Antonio	177, 274 46, 877 154, 970 184, 727	· 9 0 1	2 1 2 1	· 1 0 0 2	• 0 0 0	0 0 0 0	0 1 0 0	20	2 0 3 3
MOUNTAIN									
Montana: Billings Great Falls Helena Missoula	16, 927 27, 787 1 12, 037 1 12, 668	0 0 0	0 1 0 0	0 1 0 1	0 0 0	0 0 0	0 0 0	6 1 0	000000000000000000000000000000000000000
Idaho: Boise	22, 806	2	1	0	0	Ō	0	0	0
Colorado: Denver Pueblo	272, 031 43, 519	9 0	10 2	10 3		1 0	7 1	19 0	7 2
New Mexico: Albuquerque	16, 648	0	1	0	0	0	1	. 3	C
Arizona: Phoenix	33, 899	0	0	1		0	0	0	0
Utah: Salt Lake City Nevada:	126, 241	11	2	; 4	0	. 0	2	34	2
Reno	12, 429	0	0	0	0	0	. 0	0	0
PACIFIC									
Washington: Seattle Spokane Tacoma	¹ 315, 685 104, 573 101, 731	27 5 4	4 2 1	3 6 1	0 0	 0	0 0 0	42 0 2	
Oregon: Portland	273, 621	7	4	14	1	1	0	12	2
California: Los Angeles Sacramento San Francisco	666, 853 69, 950 539, 038	41 20 20	35 1 23	28 3 16	4 0 4	0 0 1	27 0 3	29 1 46	7 0 4

1 Population Jan. 1, 1920.

	Scarle	t fever		Smallpo	x	Tuber-	Т	phoid f	Whoop-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases esti- mated expect- ancy	Cases re- ported	Deaths re- ported	re- mated re- re-	· re-	ing cough, cases re- ported	Deaths, all causes		
NEW ENGLAND											
Maine:											
Portland New Hampshire:	. 1	2	0	0	0	1	1	0	0	1	15
Concord Manchester	0	0 3	0	0	0	1	0	0	0	0	4
Vermont:			-								
Barre Burlington	0	. 0	0	0 0	0 0	0	0	0	0	0	05
Massachusetts: Beston	37	42	0		0	18	2	6	0		242
Fall River	2	2	0	0	Ó	4	2	0	Ó	4	- 47
Springf.eld Worcester	45	53	0	0	0	2 6	0	1 0	0	. 63	48
Rhode Island:					-		-				
Pawtucket Providence	1 8	0 3	0	0	0	0 3	0	0	0	1	21
Connecticut: Bridgeport	4	8	0	0	0	3	0	0	0	0	23
Hartford	. 3	1	Ō	Ó	0	• 2	ŏ	0	Ó Ó	. 7	40
New Haven MIDDLE ATLANTIC	2	4	0	0	0	2	1	3	0	31	43
New York: Buffalo	17	15	0	0	0	16	1	2	0	14	169
New York Rochester	149 9	120 26	0	1	0	1 100	12	21	3 0	118	2,054
Svracuse	8	20	ŏ	ŏ	ŏ	$\frac{5}{1}$	0	1	ŏ	18 6	82 35
New Jersey: Camden	2	. 4	. 0	0	1	4	1	0	0	. 7	45
Newark	15	13	0	0	0	5	1	1	0	45	99
Trenton Pennsylvania:	1	2	0	0	0	4	1	0	0	2	69
Philadelphia	59 19	64 58	1	3	0	52	5	7	Ő	91	907
Pit'sburgh Reading	1	- 38 - 4	0	ŏ	0	11 2	2 0	1	0	22 10	181 40
Scranton	2	1	0	0	0	1	0	0	0	4	
EAST NORTH CEN- Tral											
Ohio:		1									
Cincinnati Cleveland	7 16	15	2 1	1	1	17	1.	····i	·····i	66	165
Columbus	4	7	1	16	0	7	0	0	ō	6	72
Toledo indiana:	14	10	1	0	0	10	1	0	1	20	54
Fort Wayne Indianapolis	1 10	4	2	1	0	2	0	0	1	1	23
South Bend	2	4	5	12 0	0	4	1	0	0	31 0	78 13
Terre Haute llinois:	1	5	0	11	0	2	0	0	0	Ō	35
Chicago	60	134	2	4	0	59	3	7	0	96	670
Cicero Springfield	0-1	4	0		0	0	0.	0	0	0	18
Michigan:								1			
Detroit Flint	55 4	49 I 8	11	1	0	16 0	3	2	1 0	137	247 16
Grand Rapids_ Wisconsin:	4	22	Ō	ō	Ō	i	i	ĭ	ŏ	6	37
Madison	1	2	1	0	0	0	0	1	0	6	3
Milwaukee Racine	21 3	6 1	3 1	6 1	8	90	0	0	0	33 1	104 10
Superior	ĩ	12	2	i	1	ŏ	i	ŏ	ŏ	ō	6
VEST NORTH CEN- TRAL											
finnesota:											
Dulath Minneapolis	3 22	5 46	39	03	0	0	1	0	0	<u>o</u>	22 84 76
St. Paul	15	25	4	0	2	6 10	ō	1	0	7	55

City reports for week ended June 13, 1925-Continued

¹Pulmonary tuberculosis only.

City reports for week ended June 13, 1925-Continued

	Scarle	t fever		Smallp	x	Tuber-	Туј	phoid fe	ver	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NOBTH CENTRAL-COD											
Iowa:		0									
Davenport Des Moines	1	1	43	4			0	0		0	
Sioux City Waterloo	2 3	2 0	1	22			0	0		0 9	
Missouri:		-	-								
Kansas City St. Joseph	5 1	9 0	30	0	0	2 1	1	6 0	0	26 4	67 29
St. Louis	21	64	Ž	3	ŏ	12	• 2	4	ĭ	19	192
North Dakota:	1	2	0	0	0	1	0	0	0	9	
Fargo Grand Forks.	î	ō	ŏ	ŏ			ŏ	ŏ		ő	
South Dakota: Aberdeen	2	0	0	0			0	0		. 0	
Sioux Falls	ī		Ŏ	Ŏ			ŏ	ŏ		ŏ	
Nebraska: Lincoln	1	0	0	0	0	1	1	1	0	8	. 12
Omaha	4	3	2	15	ŏ	7	Ô	ō	ŏ	ĩ	57
Kansas: Topeka	1	0	1	0	0	1	. 0	0	0	2	
Wichita	i	1	3	. ŏ	ŏ	Ô	ŏ	-1	ŏ	22	12 34
SOUTH ATLANTIC											
Delaware: Wilmington	3	1	. 0	0	0	2	1	0	0	0	
Maryland:											39
Baltimore Cumberland	19 1	12 0	1	0	0	20 2	3 0	2 0	U O	85 1	338
Frederick	i	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	Ō	13
District of Col.:	11	5	1	0	0	12	2	2	o	14	
Washington Virginia:		3	- 1			•			v	14	141
Lynchburg	0	1	1	0	0	0	0	0	0	.8	12
Norfolk Richmond	12	2	ŏ	ŏ	ŏ	3	i	3	ŏ	11	43
Roanoke	0	0	1	0	0	1	0	1	0	3	11
West Virginia: Charleston	1	0	0	0	0	1	1	0	1	0	13
Huntington	1	Ő	0	Ő			0	Ō		0	
Wheeling North Carolina:	1	4	0	0	0	0	1	0	0	0	12
Raleigh	0	0	0	0	0	0	0	3	0	1	18
Wilmington Winston-Salem		0	0 1	1 5	0	1	1	0	0	0 29	10
South Carolina:	1				1	1				1	
Charleston Columbia	0	0	0	0	0	3	1 2	2 4	2 0	02	24
Greenville	ō	ŏ	ō	4	ŏ	Ŏ	ī	3	ŏ	7	16
Georgia: Atlanta	4	3	7	1.	0	6	1	4	3	20	77
Brunswick	0	0	0	0	0	Ó	1	1	0	0	2
Savannah Florida:	0	0	0	0	0	0	2	2	0	0	24
St. Petersburg.	0		0				0				
Tampa	0	1	0	0	0	2	1	4	0	0	23
EAST SOUTH CEN- TRAL											
Kentucky:	.				·		.				
Covington Louisville	12	12	0.1	1	0	3	1	1	0	6	70
Tennessee:											
Memphis Nashville	3	1 3		1	0	10 5	1 2	9 6	01	15 7	66 42
labama:				_							
Birmingham Mobile	1	12 0	1	41 0	0	82	3 1	2 0	0	16 0	93 18
Montgomery	ŏ	ŏ	1 i i	ĭ	ŏ	õl	i	3	ĭ	ŏ	19

¹Pulmonary tuberculosis only.

	Scarle	t fever		Smallp	0X	Tuber-		phoid i	lever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis,	Cases, esti- mated	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CEN- TRAL											
Arkansas: Fort Smith Little Rock Louisiana:	1	0 1	0 1	- 0 - 0	0	2	0 1	· 0 4	<u>0</u>	11 1	
New Orleans Shreveport	2	7 0	3	0 0	0	19 0	3	8 4	3 0	· 11 0	137 25
Oklahoma: Oklahoma Texas:	1	0	5	0	0	3	0	5	1	1	34
Dallas. Galveston Houston San Antonio	1 0 1 1	2 0 0 0	2 0 1 0	0 1 0 0	0 0 0 0	5 2 1 11	1 1 1 1	4 0 0 5	2 0 1 2	24 0 0	54 12 37 64
MOUNTAIN											
Montana: Billings Great Falls Helena Missoula	1 1 0 1	2 11 4 0	1 1 0 0	0 2 0 0	· 0 0 0 0	1 1 0 0	0 0 1 0	0 0 0 0	0 0 0 0	0 4 0 0	3 8 6 3
Idaho: Boise Colerado:	1	0	1	1	o	0	0	0	o	1	3
Denver Pueblo New Mexico:	8 1	3 2	0 0	0 0	0	11 3	1 0	0 0	0	13 0	73 14
Albuquerque Arizona:	0	0	0	0	0	2	0	0	0	0	8
Phoenix Utah: Salt Lake City.	2	0 .		0	0	4	0	0	0	0	25
Nevada: Reno	0	0	1	0	0	1	1	5	1	5	33 7
PACIFIC											-
Washington: Seattle Spokane Tacoma Oregon:	7 3 2	14 1 4	3 3 2	8 0 3	0	0	1 0 1	1 0 0	0	81 14 2	24
Portland California: Los Angeles	6 11	10 24	3	6 36	0	1 25	1	1 2	0	12	0 220
Sacramento San Francisco.	1 12	1 12	0 0	30 2 2	000	20 1 10	3 1 1	1 1 1	0 0 0	81 7 41	220 28 150

City reports for week ended June 13, 1925-Continued

Cerebrospinal Lethargic encephalitis Poliomyelitis (infan-Pellagra Typhus fever meningitis tile paralysis) Division, State, and Cases, city esti-Deaths Cases Deaths Cases Cases Deaths Cases Deaths mated Cases Deaths expectancy NEW ENGLAND Massachusetts: Boston 0 0 0 0 0 0 0 0 2 ---------ŏ ŏ Worcester. ī Õ Õ Õ ŏ Õ ō -----Rhode Island: Pawtucket ... 0 0 0 0 0 0 1 a 0 ------ - - - -Providence Ō i 0 0 0 0 Õ 0 Ó ----...... Connecticut: Bridgeport 0 0 1 0 0 0 0 0 0 0 0 MIDDLE ATLANTIC New York: New York.... 3 5 3 3 0 0 1 3 1 New Jersey: 0 1 0 0 0 0 0 0 Newark_ Õ ō Ō Ô Ó Õ Ó Ó Trenton_____ 1 ----....... Pennsylvania: Philadelphia... 0 0 0 0 0 0 0 0 1 -------Pittsburgh 0 Ó 0 0 0 0 1 1 0 EAST NORTH CENTRAL Ohio: Columbus.... 0 0 0 0 0 0 0 0 1 ----Illinois: Chicago_ 0 1 0 0 0 0 0 0 0 1---------Michigan: 0 0 0 0 1 0 0 0 Detroit 1 -------SOUTH ATLANTIC Maryland: Baltimore 0 0 1 0 0 0 0 2 1 ------District of Columbia: Washington 1 1 1 1 0 0 0 0 0 - - - -------EAST SOUTH CENTRAL Tennessee: Memphis..... 0 1 0 0 ۵ 0 0 0 11 ----------Nashville_____ Õ ŏ Õ Ó 0 0 0 0 ------. Alabama: 1 0 0 1 1 0 2 0 1 Birmingham 1 ---------Mobile ... Õ ō 0 0 0 1 0 0 ---------Montgomery Õ Õ 0 0 0 1 0 0 n -----. WEST SOUTH CEN-TRAL Arkansas: 0 0 0 Little Rock 0 0 ı 1 0 0 - - ----Louisiana: n New Orleans 1 0 n ۵ 0 0 20 10 ---------Shreveport õ Ō 1 0 0 0 0 ---------Texas: Dallas. 0 ۵ 0 0 0 0 0 2 0 1 Ō Õ Houston_____ Õ Ó 0 0 2 n 0 Λ San Antonio Ó 0 0 1 1 n 1 0 0 MOUNTAIN Arizona: 0 0 0 1 Phoenix 0 0 0 1 PACIFIC Oregon: 0 0 Portland. 3 2 0 0 0 0 0 California: 0 A 0 3 0 Los Angeles. 0 0 0 0 Ô Sacramento Ó Ó 0 0 0 A 0 1 ----. õ Ô 3 Õ Ó 1 0 0 0 San Francisco.... ---------

City reports for week ended June 13, 1925-Continued

The following table gives the rates per hundred thousand population for 105 cities for the 10-week period ended June 13, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 105 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 97 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, April 5 to June 13, 1925—Annual rates per 100,000 population 1

		Week ended								
	Apr. 11	Apr. 18	Apr. 25	May 2	May 9	May 16	May 23	May 30	June 6	June 13
105 cities	158	160	162	158	3 157	3 164	153	4 149	+157	• 121
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central. Mountain Pacific	166 220 96 226 73 34 107 105 171	129 228 110 168 102 46 74 239 168	144 218 113 187 108 40 79 267 165	127 213 110 201 104 40 70 115 206	109 212 113 278 104 11 65 105 2 123	154 238 110 211 85 34 56 153 * 138	127 203 108 251 87 40 42 134 165	114 211 106 197 477 11 65 143 168	129 244 99 189 \$ 93 11 42 76 145	94 156 7 96 145 * 57 * 6 70 181 165

DIPHTHERIA CASE RATES

MEASLES CASE RATES

and the second se										
105 cities	531	589	645	581	2 627	3 624	601	4 593	⁶ 618	⁶ 589
New England	1, 011	917	1, 217	1,004	984	1, 188	1, 051	867	872	892
Middle Atlantic	680	815	782	734	797	768	617	704	774	727
East North Central. West North Central	710 58	742 91	901 102	761	890	854	954	913	893	7 886
South Atlantic	207	256	295	305	112 240	329	236 327	145 4 256	114 5416	135 1299
East South Central	34	97	189	200	343	166	337	217	132	226
West South Central	51	65	37	28	32	14	23	14	23	14
Mountain	57	267	219	534	181	57	181	248	38	95
Pacific	241	154	203	162	² 95	3 178	131	165	165	87

SCARLET FEVER CASE RATES

105 cities	367	342	360	309	323 v	¥352	307	.4 278	J 266	• 177
New England	529	350	407	430	415	358	350	211	266	179
Middle Atlantic	359	343	336	323	319	331	265	271	263	156
East North Central.	422	403	433	324	366	399	413	346	317	7 217
West North Central.	647	651	692	518	618	728	556	531	481	325
South Atlantic	152	167	175	132	106	165	146	4 122	* 132	8 62
East South Central.	280	229	257	263	263	326	246	183	126	9 171
West South Central.	88	60	121	111	88	74	23	65	88	46
Mountain	258	315	401	334	277	353	324	410	334	277
Pacific	174	145	148	125	3 151	3197	162	139	151	162

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, 1923.
³ Spokane, Wash., not included. Report not received at time of going to press.
⁴ Tacoma, Wash., not included.
⁴ Charleston, W. Va., not included.
⁴ Wilmington, N. C., not included.
⁶ Cincinnati, Ohio, Cicero, III., St. Petersburg, Fla., and Covington, Ky., not included.
⁸ St. Petersburg, Fla., not included.
⁹ Covington, Ky., not included.

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Summary of weekly reports from cities, April 5 to June 13, 1925—Annual rates per 100,000 population—Continued

				•	Week	ended-				
	Apr. 11	Apr. 18	Apr. 25	May 2	May 9	May 16	May 23	May 3	June 6	June 1
105 cities	51	· 48	62	50	3 46	³ 46	60	4 48	⁵ 46	63
New England Middle Atlantie East North Central. West North Central. South Atlantie East South Central. West South Central. Mountain Pacific	2 10 22 97 43 572 51 19 148	0 18 27 85 53 395 14 10 162	2 12 39 89 79 457 42 29 264	0 8 30 75 63 435 32 10 206	2 6 44 60 45 377 28 48 3 176	0 7 56 79 37 189 37 29 3 191	0 2 70 68 65 440 130 29 186	0 2 58 70 4 10 423 56 57 168	0 4 65 95 \$ 39 114 32 38 191	7 4 5 8 2 • 31 2 14
		TYP	HOID	FEVER	CASE	RATE	3			•
105 cities	10	12	16	18	¥ 14	3 13	19	4 16	\$ 25	• 2
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central. Mountain Pacific	2 9 6 20 17 37 19 9	7 11 4 2 12 34 56 38 12	17 14 7 6 14 80 51 29 23	10 22 4 12 28 46 51 0 17	5 13 9 2 28 46 46 46 0 29	12 10 6 26 63 79 0 33	25 19 5 4 39 74 65 19 6	17 9 7 10 441 51 74 10 9	30 26 10 8 ⁵ 41 40 88 76 9	2 1 71 2 86 912 11 4 1
		IN	FLUEN	ZA DE.	ATH R.	ATES				
105 cities	27	27	30	22	15	. 14	14	4 12	s 11	6 7
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central. Mountain Pacifie	32 16 27 37 26 74 46 86 12	27 24 24 50 12 80 36 38 29	30 17 33 48 43 86 25 76 12	20 14 23 31 26 51 31 48 12	10 10 16 11 24 51 15 19 16	7 12 11 11 10 80 20 57 12	5 11 12 18 6 86 24 19 25	7 9 14 18 412 40 31 0 8	2 11 10 4 56 54 5 29 12	* (* { * 4 * 4 * 18 20 10 4
	•	PNI	EUMON	IIA DE	ATH R	ATES				
105 cities	201	192	203	167	151	127	128	4 117	\$ 128	⁶ 105
New England Middle Atlantic East North Central West North Central Jouth Atlantic Dat South Central West South Central West South Central Mountain Pacific	211 190 190 228 238 343 168 267 119	206 204 190 171 232 206 173 210 98	186 223 211 136 191 286 158 219 147	149 206 148 72 195 194 127 124 127	161 185 130 77 156 160 138 124 123	134 143 125 58 136 166 112 162 78	119 144 125 79 134 137 84 172 135	114 146 119 59 157 172 76 76 82	72 163 114 57 146 126 66 95 131	117 130 7 90 59 \$ 123 \$ 67 87 105 49

SMALLPOX CASE RATES

¹ Spokane, Wash., not included. Report not received at time of going to press.
¹ Tacoma, Wash., not included.
⁴ Charleston, W. Va., not included.
⁵ Wilmington, N. C., not included.
⁶ Cincinnati, Ohio, Cicero, Ill., St. Petersburg, Fla., and Covington, Ky., not included.
⁶ St. Petersburg, Fla., not included.
⁸ St. Petersburg, Fla., not included.
⁹ Covington, Ky., not included.

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
Total	105	97	28, 898, 350	28, 140, 934
New England. Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central. Wountain. Pacific	12 10 17 14 22 7 8 9 6	12 10 17 11 22 7 6 9 3	2,098,746 10,304,114 7,032,535 2,515,330 2,566,901 911,885 1,124,564 546,445 1,797,830	2,008,746 10,304,114 7,032,535 2,381,454 2,566,901 911,885 1,023,013 546,445 1,275,841

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923

FOREIGN AND INSULAR

THE FAR EAST

Wireless health news messages.—The following data for the week ended June 6, 1925, were sent by wireless from the Far Eastern Bureau of the Health Section of the League of Nations located at Singapore to the headquarters at Geneva, Switzerland:

-	P	lague	Cì	olera	Sm	allpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Singapore Port Swettenham Penang Batavia Soerabaya Soerabaya Batavia Soerabaya Samakan (North Borneo) Sarawak Bangkok ! Saigon and Cholon Hongkong Shanghai Manila Colombo Nagasaki Yokohama Shimonoseki Kobe					$\begin{array}{c} 50\\ 12\\ 12\\ 20\\ 14\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	45 10 10 6

¹ Plague-infected rats found.

BRAZIL

Plague—Bahia—May 3-16, 1925.—During the two weeks ended May 16, 1925, four cases of plague with three deaths were reported at Bahia, Brazil.

CUBA

Communicable diseases—Provinces—March and April, 1925.— Cases of disease were notified in the provinces of Cuba for the months of March and April, 1925, as follows:

Disease	Pinar del Rio	Ha- bana	Matan- zas	Santa Clara	Cama- guay	Oriente	Total
Cerebrospinal meningitis Chicken pox. Diphtheria Measles Paratyphoid fever. Poliomyelitis Scarlet fever Tetanus (infantile) Typhoid fever.	4 1 1 4 1	23 16 37 140 5 15 43	2 1 7	13 2 1 40 1 32 1 21	2 38 1 47 7 12	5 9 5 569 2 	7 83 28 657 191 6 4 4 48 1 121
Cerebrospinal meningitis Chicken poz	APRIL,	2 24		1 15	2	3	3
Diphtheria Malaria Measles Paratyphoid fever Scarlet fever Typhoid fever	1 2 4	25 50 227 3 7 47	2 11 3 	1 27 1 1 22	2 16 4 10	3 306 8 21	46 34 376 281 7 8 130

MARCH, 1925

MADAGASCAR

Plague—Tananarive Province—April 1-15, 1925.—During the period April 1 to 15, 1925, 79 cases of plague with 60 deaths were reported in the Province of Tananarive, Madagascar. Of these, 50 cases with 35 deaths were bubonic, 17 cases with 13 deaths pneumonic, and 12 cases with 12 deaths septicemic in type.

MALTA

Communicable diseases—May 1-15, 1925.—During the period May 1 to 15, 1925, communicable diseases were reported in the island of Malta as follows: Chicken pox, cases 11; diphtheria, 2; malaria, 1 case; Malta (undulant) fever, 26 cases, typhoid fever 2, and tuberculosis 17 cases.

VIRGIN ISLANDS

Communicable diseases—May, 1925.—During the month of May, 1925, communicable diseases were reported in the Virgin Islands of the United States as follows:

Island and disease	Cases	Remarks
St. Thomas and St. John: Chicken pox. Dengue. Gonorrhea. Pellagra. Syphilis. Tuberculosis. St. Croix: Chancroid. Filariasis. Gonorrhea. Malaria. Syphilis.	1 22 1 3 5 1 2 2 3 1 7	Secondary. One imported. Acute miliary. Bancrofti. Estivo-autumnal. Secondary.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended July 3, 1925¹

CHOLERA

Place	Date	Cases	Deaths	Remarks
Algeria: Algiers Ceylon	May 11-20	1		Jan. 25-Apr. 4, 1925: Cases, 10;
India: Calcutta Rangoon Indo-China:	May 3-9 May 3-9	58 8	49 5	deaths, 10.
Saigon	May 4-10	1	1	
Siam: Ba ngkok	Apr. 26-May 2	2	1	
Turkey: Constantinople	May 16-22	1		

PLAGUE

	1	1 .	1	1
Brazil:				
Bahia British East Africa:	May 3-16	4	. 3	
Uganda	Feb. 1-28	28	28	
Cevlon: Colombo	May 10-16		1	
India:				
Bombay	Apr. 26-May 9	15	16	
Karachi	May 18-23	3	3	
Rangoon	May 3-9	27	24	
Indo-China:	-			
Cochin-China-			1	
Saigon	Apr. 20-26	1	1	Including 100 square kilometers
Madagascar:	mpr. 20 20	-	•	
Tananarive Province	Amn 1 15	79		surrounding country.
Tananarive Province	Apr. 1–15	79	60	Bubonic: Cases, 50; deaths, 35;
				pneumonic, cases, 17; deaths,
				13; septicemic, cases, 12; deaths,
				12.
Nigeria	Dec., 1924	17	13	
Do	Jan., 1925	iö	a l	
Siam:	Jan., 1520	10		
		-		
Bangkok	Apr. 26-May 9	- 5	5	
Straits Settlements:				
Singapore	May 3-9	6	6	
	-	-	_	

SMALLPOX

Algeria: Algiers Brazil:	May 11-20	7	
Pernambuco Rio de Janeiro	Apr. 26–May 2 Máy 9–16	21 1	2
British East Africa: Kenya— Mombasa	Apr. 19-May 2	12	3
Tanganyika Territory Uganda	Apr. 5–18 Feb. 1–28	19 2	3
British South Africa: Northern Rhodesia Canada:	Apr. 28-May 4	3	
British Columbia- Vancouver	June 1-14	5	
Saskatchewan	May 24-30	3	

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from Dec. 27, 1924, to June 26, 1925, see Public Health Reports for June 26, 1925. The tables of epidemic diseases are terminated semiannually and new tables begun.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER-Continued

Reports Received During Week Ended July 3, 1925-Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China:	-	Ì		
Antung	May 11-17	1		
Canton				Present.
Chungking				Present.
Hongkong			6	
Manchuria—	1		-	
Dairen	Apr. 13-May 3	54	6	
Harbin	May 13-19	1		
Nanking	May 9-23			Present.
France			.	FebMar., 1925: Cases, 48.
Paris		1		
Gold Coast				JanFeb., 1925: Cases, 11- deaths, 17.
Great Britain:	1			-
England and Wales New Castle-on-Tyne				May 24-June 6, 1925: Cases, 18
New Castle-on-Tyne	May 31–June 6	2		
Greece				JanFeb., 1925: Cases, 4
				deaths, 6.
India:	•			
Bombay	Apr. 26-May 9	48	42	
Calcutta	May 3-9	109	100	
Karachi	May 18-23	1	1	Feb. 15-21, 1925: Cases, 2; deaths
Madras	do	40	16	2.
Rangoon	May 3–9	63	24	
Indo-China:				
Cochin-China-	1			• • • • • • • • • •
Saigon	Apr. 20-May 10	7	4	Including 100 square kilometers
(1.1	of surrounding country.
Irak	A == 00 Mar 0			Jan. 11-Apr. 4, 1925: Cases, 87
Bagdad	Apr. 26-May 2	3		deaths, 42.
Jamaica		•••••		Apr. 26-May 30, 1925: Cases, 75. Exclusive of Kingston.
lava:				Exclusive of Kingston.
East Java—				
Soerabaya	1 16 00	33	4	
West Java-	Apr. 10-22	30		
Batavia	May 2-8	· 1		Province.
Tegal	Mar. 29-Apr. 4	2		Trovince.
Mexico:	-	-		
Guadalajara	June 2–15		2	
Mexico Čity	May 24-30	1		Including municipalities in Fed-
Tampico	June 2–15 May 24–30 June 1–10		1	eral District.
Morocco				
Tangier	May 17-June 5			Present among natives.
Nigeria				December, 1924: Cases, 40;
				deaths, 16.
Do				January-February, 1925: Cases,
				421; deaths, 11.
Poland	!			Mar. 1-7, 1925: Cases, 3.
Portugal:				
Lisbon				
Russia				December, 1924: Cases, 880.
				January, 1925: Cases, 383.
Siam:			_	
Bangkok	Apr. 26-May 9	4	2	
pain:	36			
Malaga	May 24-June 6 May 31-June 6		8	
Valencia	May 31-June 6	1		
yria: Beirut	Apr 21 20		1	
ripoli	Apr. 21-30	1		Ten 2 Feb 00 1005 Corre 4
Punis:	· · · · · · · · · · · · · · · · · · ·	····-		Jan. 3-Feb. 20, 1925: Cases, 6.
Tunis	Mon 6 20			
Surkey:	May 6-20	8	19	
Constantinople	May 16-22	2	1	
Jruguay	May 10-22	2		December, 1924: Cases, 8.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER-Continued

Reports Received During Week Ended July 3, 1925-Continued

TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Algeria: Algiers		6	2	In vicinity stated to be 12 cases. Isolated.
Bulgaria Do				NovDec., 1924: One case. JanMar., 1925: Cases, 36; deaths, 2.
Chile: Valparaiso Egypt:	May 10-16		1	
Alexandria Port Said			1	JanFeb., 1925: Cases, 40:
Athens Mexico:	May 1-31		2	deaths, 4.
Mexico City	May 24-30	11		Including municipalities in Fed- eral District. Jan., 1925: Cases, 63.
Peru: Arequipa Poland	Apr. 1-30		2	Mar. 1-7, 1925; Case3,
Russia				deaths, 9. Dec., 1924: Cases, 4,227. Jan., 1925: Cases, 3,828.
Turkey: Constantinople	May 11-20	6	2	vall., 1020. Cases, 0,920.
Natal-				Apr. 19-25, 1925: Outbreaks.
Durban Orange Free State	May 3-9	1		Apr. 19-25, 1925: Outbreaks.

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